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Laboratory Code: 11148

SDG Number: L2453720

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1016/1260 L8 (250ug/L) Injected on: 09/16/24 16:30 2995
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Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2453720
Report Date: 10/09/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2453720-01	MW-8S	WATER	416 MILLER PLACE-YAPHANK ROAD	09/18/24 09:10	09/18/24
L2453720-02	MW-8D	WATER	416 MILLER PLACE-YAPHANK ROAD	09/18/24 09:05	09/18/24
L2453720-03	DUP_091824	WATER	416 MILLER PLACE-YAPHANK ROAD	09/18/24 12:00	09/18/24
L2453720-04	EQUIPMENT BLANK	EQUIPMENT BLANK	416 MILLER PLACE-YAPHANK ROAD	09/18/24 14:00	09/18/24
L2453720-05	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK ROAD	09/18/24 00:00	09/18/24
L2453720-06	MW-5D	WATER	416 MILLER PLACE-YAPHANK ROAD	09/18/24 11:45	09/18/24
L2453720-07	PZ-5	WATER	416 MILLER PLACE-YAPHANK ROAD	09/18/24 11:25	09/18/24
L2453720-08	MW-12S	WATER	416 MILLER PLACE-YAPHANK ROAD	09/18/24 12:55	09/18/24
L2453720-09	MW-12D	WATER	416 MILLER PLACE-YAPHANK ROAD	09/18/24 13:00	09/18/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Report Submission

October 09, 2024: This final report includes the results of all requested analyses.

September 27, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analyses of Sulfide, Iodide, Ammonium, Uranium, Thorium, and Radium were subcontracted. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Semivolatile Organics

The WG1975324-2 LCS recovery, associated with L2453720-01, -02, -03, -04, -06, -07, -08, and -09, is below the acceptance criteria for 2,4-dinitrophenol (8%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Solids, Total Dissolved

The WG1975314-4 Laboratory Duplicate RPD for solids, total dissolved (13%), performed on L2453720-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Chloride

The WG1975603-3 Laboratory Duplicate RPD for chloride (18%), performed on L2453720-02, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Report Date: 10/09/24

Title: Technical Director/Representative

DATA PACKAGE GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

ND or U - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD	
	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary

Alpha Job Number : L2453720

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 2232.0006Y005
Project Name : CORAM MATERIALS

Received : 18-SEP-2024
Reviewer : Katelyn Wolotschaj

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.7	
B	Absent/	Ice	3.9	
C	Absent/	Ice	3.9	
D	Absent/	Ice	4.1	
E	Absent/	Ice	2.7	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between COC & sample labels?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 10 2024, 04:59 pm

Login Number: L2453720

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 18SEP24 Due Date: 11OCT24

Sample #	Client ID	Mat	PR	Collected
L2453720-01	MW-8S	S	0	18SEP24 09:10

778760558434 $54.10 USD Galbraith, TN 778761244230 $39.44 USD Pace, IN Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg ASP-B Package Due Date: 10/11/24

A2-14-DIOXANESIM-PPB,ALK-CO3-2320,ALK-HCO3-2320,ASP-B,BR-300,CL-4500,F-4500,HERB-8151,NYTCL-8081, NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SHIPPING,SO4-4500, SUB-AMMONIUM,SUB-IODIDE,SUB-LEVEL5,SUB-RA226,SUB-RA228,SUB-SULFIDE,SUB-THORIUM,SUB-URANIUM,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI, NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2453720-02	MW-8D	S	0	18SEP24 09:05

NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene; Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg L2453720-02 MS L2453720-02 MSD Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 10/11/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 10 2024, 04:59 pm

Login Number: L2453720

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 18SEP24 Due Date: 11OCT24

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,MS/MSD,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2453720-03	DUP_091824		1 S0	18SEP24 12:00

NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 10/11/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 10 2024, 04:59 pm

Login Number: L2453720

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 18SEP24 Due Date: 11OCT24

Sample #	Client ID	Mat	PR	Collected
L2453720-04	EQUIPMENT BLANK	S0	1	18SEP24 14:00

NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene; Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 10/11/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260, NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE, TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI, NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

Sample #	Client ID	Mat	PR	Collected
L2453720-05	TRIP BLANK	S0	1	18SEP24 00:00

NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene; Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 10/11/24

NYTCL-8260

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 10 2024, 04:59 pm

Login Number: L2453720

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 18SEP24 Due Date: 11OCT24

Sample #	Client ID	Mat	PR	Collected
L2453720-06	MW-5D		1	S0 18SEP24 11:45

NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene; Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 10/11/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260, NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE, TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI, NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

Sample #	Client ID	Mat	PR	Collected
L2453720-07	PZ-5		1	S0 18SEP24 11:25

NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene; Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 10/11/24

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 10 2024, 04:59 pm

Login Number: L2453720

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 18SEP24 Due Date: 11OCT24

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,
NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,
TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,
NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-
UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-
UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

L2453720-08 MW-12S 1 S0 18SEP24 12:55

NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene; Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 10/11/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,
NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE,
TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI,
NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-
UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-
UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Oct 10 2024, 04:59 pm

Login Number: L2453720

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005 416 MILLER PLACE-YAPHANK ROAD, MILLE
Received: 18SEP24 Due Date: 11OCT24

Sample #	Client ID	Mat	PR	Collected
L2453720-09	MW-12D		1	S0 18SEP24 13:00

NYTCL-8260: Report list built including Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT:Report list built including Non-Routine: ;1,2,4,5-Tetrachlorobenzene; Atrazine;Benzaldehyde;Caprolactam NYTCL-8270 SIM RVT Report list built NYTCL-8081: Report list built including TOX HERB-8151: Report list built SUB-RA226/RA228, Thorium, Uranium couriered direct from NJSC to Pace Greensburg Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) SUB-Sulfide is direct sub to Pace Melville Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound Package Due Date: 10/11/24

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-4500,F-4500,HERB-8151,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260, NYTCL-8270/SIM-RVT,NYTCL-8270-RVT,NYTCL-8270-SIM-RVT,SO4-4500,SUB-AMMONIUM,SUB-IODIDE,SUB-SULFIDE, TAL-2007S,AG-RI,AL-RI,AS-RI,BA-RI,BE-RI,CA-RI,CD-RI,CO-RI,CR-RI,CU-RI,FE-RI,HG-R,K-RI,MG-RI,MN-RI, NA-RI,NI-RI,PB-RI,PREPR,SB-RI,SE-RI,TL-RI,V-RI,ZN-RI,TAL-600,AG-UI,AL-UI,AS-UI,BA-UI,BE-UI,CA-UI,CD-UI,CO-UI,CR-UI,CU-UI,FE-UI,HG-U,K-UI,MG-UI,MN-UI,NA-UI,NI-UI,PB-UI,PREPU,SB-UI,SE-UI,TL-UI,V-UI,ZN-UI,TDS-2540,TKN-351,TOTALNITROGEN,NO3/NO2-4500,TNITROGEN,TPO4-4500

Logged By: Jennifer Byrnes

NEW YORK CHAIN OF CUSTODY

L2453720 25SEP24
ROUX – NY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 13

Date Rec'd in Lab 9/19/24

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: CORAM MATERIALS
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #) ☐
Project Manager: Julia Michaels
ALPHAQuote #: 28577

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NYTCL-8260	NYTCL-8270/SIM-RVT	TAL600/TAL-2007S	8081/8151/8082	NO3/NO2-4500-PPB	TOTALNITROGEN	CI-4500/BR-300	SO4-4500/TPO4-4500	Sample Specific Comments	Total Bottles
53720-01	MW-8S	9/18/24	9:10	AQ	AI	X	X	X	X	X	X	X	X		26
-02	MW-8D	9/18/24	9:05	AQ	PP	X	X	X	X	X	X	X	X	MS/MSD	60
-03	DUP-091824	9/18/24	1200	AQ	AI	X	X	X	X	X	X	X	X		20
-04	Equipment blank	9/18/24	1400	AQ	AI	X	X	X	X	X	X	X	X		16
-05	TRIP BLANK	9/18/24	LAB	AQ	B	X									2
-06	MW-5D	9/18/24	1145	AQ	PP	X	X	X	X	X	X	X	X		20
-07	PZ-5	9/18/24	11:25	AQ	AI	X	X	X	X	X	X	X	X		20
-08	MW-12S	9/18/24	12:55	AQ	AI	X	X	X	X	X	X	X	X		20
-09	MW-12D	9/18/24	1300	AQ	AQ	X	X	X	X	X	X	X	X		20

Sample Filtration

☑ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	9/18 1600		1612
	9/18 1720		
	9/18 1952	Anthony Green	SEP 18 2024 0034
Anthony Green	9/19/24 0105		9/19/24 0105
	9/19/24 0305		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

09/19/24-0305

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 3

Date Rec'd in Lab: 9/19/24

ALPHA Job #: L2455726

Client Information

Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information

Project Name: CORAM MATERIALS
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #) ☐
Project Manager: Julia Michaels
ALPHAQuote #: 28577

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Alk-CO3-2320	Alk-HCO3-2320	F-4500	TDS-2540		Sub-Iodide	Sub-sulfide	Sub-Ammonium	Sample Specific Comments	Total # Bottles
53720 -01	MW-8S	9/18	9:10	AQ	AI	X	X		X	X	X	X	X		26
-02	MW-8D	9/18	9:05	AQ	PP	X	X		X	X	X	X	X	MS/MSD	60
-03	DUP_091824	9/18	1200	AQ	AI	X	X		X	X	X	X	X		20
-04	Equipment Blank	9/18	1400	AQ	AI	X	X		X	X	X	X	X		20
-05	TRIP BLANK	9/18	LAB	AQ	B										2
-06	MW-5D	9/18	1145	AQ	PP	X	X		X	X	X	X	X		20
-07	PZ-5	9/18	11:25	AQ	AI	X	X		X	X	X	X	X		20
-08	MW-12S	9/18	1255	AQ	AI	X	X		X	X	X	X	X		20
-09	MW-12D	9/18	1300	AQ	AI	X	X		X	X	X	X	X		20

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type										
Preservative										

Relinquished By:	Date/Time	Received By:	Date/Time
	9/19/24 1600		1610
	9/19/24 1726	Anthony Green	SEP 18 2024 2330
Anthony Green	9/19/24 0105		9/19/24 0105
	9/19/24 0305		

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Form No: 01-25 (rev. 30-Sept-2013)

09/19/24-0305

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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Page 3 of 3

Date Rec'd in Lab: 9/19/24

ALPHA Job #: L2453720

Client Information
Client: ROUX Env.Eng.&Geology, DPC
Address: 209 Shafter Street
Islandia, NY 11749-5074
Phone: 631-232-2600
Fax:
Email: jmichaels@rouxinc.com

Project Information
Project Name: CORAM MATERIALS
Project Location: 416 Miller Place-Yaphank Road
Project #
(Use Project name as Project #) ☐
Project Manager: Julia Michaels
ALPHAQuote #: 28577

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	A2-14-DIOXANESIM-PPB	Sub-Uranium	Sub-Thorium	Sub-Ra228	Sub-RA226				Total Bottle
55720 -01	MW-8S	9/18	9:10	AQ	AI	X	X	X	X	X				26
-02	MW-8D	9/18	9:05	AQ	PP									6
-03	DUP-091824	9/18	12:00	AQ	AI									2
-04	EQUIPMENT BLANK	9/18	14:00	AQ	AI									2
-05	TRIP BLANK	9/18	LAB	AQ	B									2
-06	MW-5D	9/18	11:45	AQ	PP									2
-07 (A2)	~~MW~~ PZ-5	9/18	11:25	AQ	AI									2
-08	MW-12S	9/18	12:55	AQ	AI									2
-09	MW-12D	9/18	13:20	AQ	PP									2

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type														
Preservative														

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	9/18 1610	[illegible]	9/18 1610
[illegible]	9/18 1730	[illegible]	
Anthony Green	9/19/24 0105	Anthony Green	SEP 18 2024 2009 9/19/24 0105
9/19/24 0305			

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

09/19/24-0305

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453720
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Trip Blank (Aqueous)/Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-8S (L2453720-01)	123	100	96	107	0
MW-8D (L2453720-02)	120	100	95	109	0
DUP_091824 (L2453720-03)	117	102	95	104	0
EQUIPMENT BLANK (L2453720-04)	124	101	92	109	0
TRIP BLANK (L2453720-05)	123	99	95	107	0
MW-5D (L2453720-06)	119	101	92	107	0
PZ-5 (L2453720-07)	122	100	94	107	0
MW-12S (L2453720-08)	122	97	95	108	0
MW-12D (L2453720-09)	124	100	91	113	0
WG1976114-3LCS	117	102	94	97	0
WG1976114-4LCSD	117	103	95	99	0
WG1976114-5BLANK	114	103	99	104	0
MW-8DMS	106	100	93	96	0
MW-8DMSD	115	100	92	98	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2453720
Project Name : CORAM MATERIALS **Project Number** : 2232.0006Y005
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1976114-3 **Analysis Date** : 09/24/24 19:17 **File ID** : VG240924N01
LCSD Sample ID : WG1976114-4 **Analysis Date** : 09/24/24 19:41 **File ID** : VG240924N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.3	93	10	9.1	91	2	70-130	20
1,1-Dichloroethane	10	10	100	10	10	100	0	70-130	20
Chloroform	10	9.5	95	10	9.6	96	1	70-130	20
Carbon tetrachloride	10	9.7	97	10	9.5	95	2	63-132	20
1,2-Dichloropropane	10	10	100	10	10	100	0	70-130	20
Dibromochloromethane	10	9.0	90	10	9.4	94	4	63-130	20
1,1,2-Trichloroethane	10	9.8	98	10	10	100	2	70-130	20
Tetrachloroethene	10	9.2	92	10	9.3	93	1	70-130	20
Chlorobenzene	10	9.8	98	10	9.9	99	1	75-130	20
Trichlorofluoromethane	10	11	110	10	9.7	97	13	62-150	20
1,2-Dichloroethane	10	11	110	10	11	110	0	70-130	20
1,1,1-Trichloroethane	10	9.5	95	10	9.4	94	1	67-130	20
Bromodichloromethane	10	9.6	96	10	9.8	98	2	67-130	20
trans-1,3-Dichloropropene	10	8.8	88	10	9.7	97	10	70-130	20
cis-1,3-Dichloropropene	10	8.8	88	10	9.2	92	4	70-130	20
Bromoform	10	7.9	79	10	8.6	86	8	54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	11	110	10	67-130	20
Benzene	10	9.9	99	10	9.9	99	0	70-130	20
Toluene	10	9.7	97	10	9.9	99	2	70-130	20
Ethylbenzene	10	9.7	97	10	9.7	97	0	70-130	20
Chloromethane	10	10	100	10	9.5	95	5	64-130	20
Bromomethane	10	6.2	62	10	7.7	77	22 Q	39-139	20
Vinyl chloride	10	12	120	10	11	110	9	55-140	20
Chloroethane	10	14	140 Q	10	15	150 Q	7	55-138	20
1,1-Dichloroethene	10	9.5	95	10	9.3	93	2	61-145	20
trans-1,2-Dichloroethene	10	9.2	92	10	9.2	92	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Roux Env. Eng. & Geology, DPC **Lab Number** : L2453720
Project Name : CORAM MATERIALS **Project Number** : 2232.0006Y005
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1976114-3 **Analysis Date** : 09/24/24 19:17 **File ID** : VG240924N01
LCSD Sample ID : WG1976114-4 **Analysis Date** : 09/24/24 19:41 **File ID** : VG240924N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	9.4	94	10	9.1	91	3	70-130	20
1,2-Dichlorobenzene	10	9.2	92	10	9.7	97	5	70-130	20
1,3-Dichlorobenzene	10	9.7	97	10	9.9	99	2	70-130	20
1,4-Dichlorobenzene	10	9.9	99	10	10	100	1	70-130	20
Methyl tert butyl ether	10	8.4	84	10	8.9	89	6	63-130	20
p/m-Xylene	20	19	95	20	19	95	0	70-130	20
o-Xylene	20	20	100	20	20	100	0	70-130	20
cis-1,2-Dichloroethene	10	8.6	86	10	9.0	90	5	70-130	20
Styrene	20	19	95	20	20	100	5	70-130	20
Dichlorodifluoromethane	10	12	120	10	11	110	9	36-147	20
Acetone	10	7.9	79	10	8.6	86	8	58-148	20
Carbon disulfide	10	10	100	10	10	100	0	51-130	20
2-Butanone	10	9.6	96	10	11	110	14	63-138	20
4-Methyl-2-pentanone	10	8.5	85	10	9.6	96	12	59-130	20
2-Hexanone	10	7.3	73	10	9.4	94	25 Q	57-130	20
Bromochloromethane	10	9.2	92	10	9.5	95	3	70-130	20
1,2-Dibromoethane	10	8.8	88	10	9.9	99	12	70-130	20
1,2-Dibromo-3-chloropropane	10	6.8	68	10	8.4	84	21 Q	41-144	20
Isopropylbenzene	10	9.8	98	10	9.4	94	4	70-130	20
1,2,3-Trichlorobenzene	10	7.2	72	10	8.4	84	15	70-130	20
1,2,4-Trichlorobenzene	10	7.9	79	10	8.6	86	8	70-130	20
Methyl Acetate	10	8.6	86	10	10	100	15	70-130	20
Cyclohexane	10	11	110	10	9.5	95	15	70-130	20
Freon-113	10	10	100	10	9.4	94	6	70-130	20
Methyl cyclohexane	10	9.7	97	10	8.3	83	16	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/24/24 22:27
Matrix Spike	: WG1976114-6	**MS Analysis Date**	: 09/25/24 04:48
Matrix Spike Dup	: WG1976114-7	**MSD Analysis Date**	: 09/25/24 05:12

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	9.7	97	10	9.8	98	1	70-130	20
1,1-Dichloroethane	ND	10	11	110	10	11	110	0	70-130	20
Chloroform	ND	10	10	100	10	11	110	10	70-130	20
Carbon tetrachloride	ND	10	9.8	98	10	10	100	2	63-132	20
1,2-Dichloropropane	ND	10	11	110	10	11	110	0	70-130	20
Dibromochloromethane	ND	10	9.9	99	10	9.6	96	3	63-130	20
1,1,2-Trichloroethane	ND	10	11	110	10	10	100	10	70-130	20
Tetrachloroethene	ND	10	9.6	96	10	9.5	95	1	70-130	20
Chlorobenzene	ND	10	10	100	10	10	100	0	75-130	20
Trichlorofluoromethane	ND	10	11	110	10	11	110	0	62-150	20
1,2-Dichloroethane	ND	10	11	110	10	12	120	9	70-130	20
1,1,1-Trichloroethane	ND	10	10	100	10	10	100	0	67-130	20
Bromodichloromethane	ND	10	10	100	10	10	100	0	67-130	20
trans-1,3-Dichloropropene	ND	10	9.3	93	10	9.7	97	4	70-130	20
cis-1,3-Dichloropropene	ND	10	8.9	89	10	9.1	91	2	70-130	20
Bromoform	ND	10	9.2	92	10	8.4	84	9	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	11	110	10	11	110	0	67-130	20
Benzene	ND	10	11	110	10	10	100	10	70-130	20
Toluene	ND	10	10	100	10	10	100	0	70-130	20
Ethylbenzene	ND	10	10	100	10	10	100	0	70-130	20
Chloromethane	ND	10	11	110	10	11	110	0	64-130	20
Bromomethane	ND	10	3.2	32 Q	10	6.5	65	68 Q	39-139	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/24/24 22:27
Matrix Spike	: WG1976114-6	**MS Analysis Date**	: 09/25/24 04:48
Matrix Spike Dup	: WG1976114-7	**MSD Analysis Date**	: 09/25/24 05:12

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Vinyl chloride	ND	10	12	120	10	12	120	0	55-140	20
Chloroethane	ND	10	16	160 Q	10	18	180 Q	12	55-138	20
1,1-Dichloroethene	ND	10	10	100	10	11	110	10	61-145	20
trans-1,2-Dichloroethene	ND	10	9.7	97	10	10	100	3	70-130	20
Trichloroethene	ND	10	9.8	98	10	9.7	97	1	70-130	20
1,2-Dichlorobenzene	ND	10	10	100	10	9.8	98	2	70-130	20
1,3-Dichlorobenzene	ND	10	10	100	10	9.6	96	4	70-130	20
1,4-Dichlorobenzene	ND	10	10	100	10	9.8	98	2	70-130	20
Methyl tert butyl ether	ND	10	8.7	87	10	9.3	93	7	63-130	20
p/m-Xylene	ND	20	20	100	20	20	100	0	70-130	20
o-Xylene	ND	20	20	100	20	20	100	0	70-130	20
cis-1,2-Dichloroethene	ND	10	9.7	97	10	9.9	99	2	70-130	20
Styrene	ND	20	20	100	20	20	100	0	70-130	20
Dichlorodifluoromethane	ND	10	11	110	10	12	120	9	36-147	20
Acetone	ND	10	11	110	10	10	100	10	58-148	20
Carbon disulfide	ND	10	11	110	10	11	110	0	51-130	20
2-Butanone	ND	10	10	100	10	10	100	0	63-138	20
4-Methyl-2-pentanone	ND	10	9.7	97	10	9.9	99	2	59-130	20
2-Hexanone	ND	10	9.5	95	10	9.2	92	3	57-130	20
Bromochloromethane	ND	10	9.7	97	10	9.5	95	2	70-130	20
1,2-Dibromoethane	ND	10	9.9	99	10	10	100	1	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	8.0	80	10	8.2	82	2	41-144	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/24/24 22:27
Matrix Spike	: WG1976114-6	**MS Analysis Date**	: 09/25/24 04:48
Matrix Spike Dup	: WG1976114-7	**MSD Analysis Date**	: 09/25/24 05:12

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Isopropylbenzene	ND	10	10	100	10	9.4	94	6	70-130	20
1,2,3-Trichlorobenzene	ND	10	7.8	78	10	8.2	82	5	70-130	20
1,2,4-Trichlorobenzene	ND	10	8.4	84	10	8.0	80	5	70-130	20
Methyl Acetate	ND	10	8.3	83	10	8.3	83	0	70-130	20
Cyclohexane	ND	10	9.3J	93	10	10	100	7	70-130	20
Freon-113	ND	10	9.5	95	10	10	100	5	70-130	20
Methyl cyclohexane	ND	10	8.2J	82	10	8.4J	84	2	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1976114-5	**Lab File ID**	: VG240924N05
Instrument ID	: GONZO		
Matrix	: WATER	**Analysis Date**	: 09/24/24 20:52

Client Sample No.	Lab Sample ID	Analysis Date
WG1976114-3LCS	WG1976114-3	09/24/24 19:17
WG1976114-4LCSD	WG1976114-4	09/24/24 19:41
MW-8S	L2453720-01	09/24/24 22:03
MW-8D	L2453720-02	09/24/24 22:27
DUP_091824	L2453720-03	09/24/24 22:51
EQUIPMENT BLANK	L2453720-04	09/24/24 23:15
TRIP BLANK	L2453720-05	09/24/24 23:39
MW-5D	L2453720-06	09/25/24 00:02
PZ-5	L2453720-07	09/25/24 00:26
MW-12S	L2453720-08	09/25/24 00:50
MW-12D	L2453720-09	09/25/24 01:14
MW-8DMS	WG1976114-6	09/25/24 04:48
MW-8DMSD	WG1976114-7	09/25/24 05:12

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GONZO	**Analysis Date**	: 07/12/24 20:14
Tune Standard	: WG1947004-1	**Tune File ID**	: VG240712PBF3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 80.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1)1
174	Greater than 50.0% of mass 95	84.6
175	5.0 - 9.0% of mass 174	5.9 (7)1
176	Greater than 95.0% but less than 101% of mass	82.2 (97.1)1
177	5.0 - 9.0% of mass 176	5.6 (6.8)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1852824-1	VG240712P03	07/12/24 21:20
STD0.5PPB	R1852824-2	VG240712P06	07/12/24 22:32
STD2PPB	R1852824-4	VG240712P07	07/12/24 22:56
STD10PPB	R1852824-3	VG240712P08	07/12/24 23:20
STD30PPB	R1852824-5	VG240712P09	07/12/24 23:44
STD80PPB	R1852824-6	VG240712P10	07/13/24 00:09
STD120PPB	R1852824-7	VG240712P11	07/13/24 00:32
STD200PPB	R1852824-8	VG240712P12	07/13/24 00:56
Correlation Data Summary	R1852824-9	VG240712P17	07/13/24 02:55
ICV Quant Report	R1852824-9	VG240712P17	07/13/24 02:55

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GONZO	**Analysis Date**	: 09/24/24 18:59
Tune Standard	: WG1976114-1	**Tune File ID**	: VG240924NBF3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	25.8
75	30.0 - 80.0% of mass 95	54.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1.4 (1.6)1
174	Greater than 50.0% of mass 95	83.8
175	5.0 - 9.0% of mass 174	6.4 (7.7)1
176	Greater than 95.0% but less than 101% of mass	81.8 (97.6)1
177	5.0 - 9.0% of mass 176	4.8 (5.9)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1976114-2CCAL	WG1976114-2	VG240924N01	09/24/24 19:17
WG1976114-3LCS	WG1976114-3	VG240924N01	09/24/24 19:17
WG1976114-4LCSD	WG1976114-4	VG240924N02	09/24/24 19:41
WG1976114-5BLANK	WG1976114-5	VG240924N05	09/24/24 20:52
MW-8S	L2453720-01	VG240924N08	09/24/24 22:03
MW-8D	L2453720-02	VG240924N09	09/24/24 22:27
DUP_091824	L2453720-03	VG240924N10	09/24/24 22:51
EQUIPMENT BLANK	L2453720-04	VG240924N11	09/24/24 23:15
TRIP BLANK	L2453720-05	VG240924N12	09/24/24 23:39
MW-5D	L2453720-06	VG240924N13	09/25/24 00:02
PZ-5	L2453720-07	VG240924N14	09/25/24 00:26
MW-12S	L2453720-08	VG240924N15	09/25/24 00:50
MW-12D	L2453720-09	VG240924N16	09/25/24 01:14
WG1976114-6MS	WG1976114-6	VG240924N25	09/25/24 04:48
WG1976114-7MSD	WG1976114-7	VG240924N26	09/25/24 05:12

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: GONZO	**Analysis Date**	: 09/24/24 19:17:00
Sample No	: WG1976114-2	**Lab File ID**	: VG240924N01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1976114-2	237313	6.09	186402	9.63	107273	12.31
Upper Limit	474626	6.59	372804	10.13	214546	12.81
Lower Limit	118657	5.59	93201	9.13	53637	11.81
Sample ID						
WG1976114-3 LCS	237313	6.09	186402	9.63	107273	12.31
WG1976114-4 LCSD	241506	6.09	182158	9.63	106666	12.31
WG1976114-5 BLANK	224824	6.09	163197	9.63	84922	12.32
MW-8S	191181	6.09	144986	9.63	76679	12.32
MW-8D	197699	6.09	150251	9.63	76591	12.32
DUP_091824	201196	6.09	148387	9.63	76340	12.32
EQUIPMENT BLANK	189091	6.09	142948	9.63	74368	12.32
TRIP BLANK	186685	6.09	140219	9.63	72027	12.32
MW-5D	188604	6.09	141117	9.63	72983	12.31
PZ-5	185109	6.09	139841	9.63	70768	12.31
MW-12S	179189	6.09	140371	9.63	69742	12.31
MW-12D	178426	6.09	135242	9.63	70887	12.31
MW-8D MS	268757	6.09	203486	9.63	116837	12.31
MW-8D MSD	259638	6.09	200567	9.63	119298	12.31

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

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Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/15/23
Created By: Jason Hebert
File: PM14094-1
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Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/15/23
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File: PM14095-1
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VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

VOCs - EPA 8260D/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	25	10	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.65	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N08	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N08	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N08	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N09	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N09	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N09	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N10	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N10	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N10	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:15
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N11	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:15
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N11	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:15
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N11	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-05	**Date Collected**	: 09/18/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:39
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-05	**Date Collected**	: 09/18/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:39
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-05	**Date Collected**	: 09/18/24 00:00
Client ID	: TRIP BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:39
Sample Matrix	: Trip Blank (aqueous)	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N12	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N13	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	0.85	1.0	0.14	J
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.85	0.50	0.18	
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	0.46	0.50	0.17	J

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N13	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.19	0.50	0.18	J
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N13	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N14	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N14	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N14	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N15	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N15	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N15	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 01:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N16	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	3.7	2.5	0.70	
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.31	0.50	0.18	J
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	6.4	2.5	0.70	
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	4.1	0.50	0.17	

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 01:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N16	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 01:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VG240924N16	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976114-5	**Date Collected**	: NA
Client ID	: WG1976114-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 20:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: VG240924N05	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976114-5	**Date Collected**	: NA
Client ID	: WG1976114-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 20:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: VG240924N05	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1976114-5	**Date Collected**	: NA
Client ID	: WG1976114-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 20:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MAG
Lab File ID	: VG240924N05	**Instrument ID**	: GONZO
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N08.D
Acq On : 24 Sep 2024 10:03 pm
Operator : GONZO:MJV
Sample : L2453720-01,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 10:27:36 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	191181	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 80.56%			
59) Chlorobenzene-d5	9.629	117	144986	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 77.78%			
79) 1,4-Dichlorobenzene-d4	12.319	152	76679	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 71.48%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	53195	10.653	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.53%			
43) 1,2-Dichloroethane-d4	5.805	65	65323	12.314	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 123.14%			
60) Toluene-d8	7.779	98	181464	9.970	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.70%			
83) 4-Bromofluorobenzene	11.118	95	61379	9.584	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D. d		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.265	94	748	0.314	ug/L #	42
6) Chloroethane	0.000		0	N.D. d		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.047	76	544	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.663	43	100	Below Cal #		47
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.708	43	73	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	5.175	128	79	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N08.D
Acq On : 24 Sep 2024 10:03 pm
Operator : GONZO:MJV
Sample : L2453720-01,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 10:27:36 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.	d	
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.836	92	67	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.645	91	74	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	10.674	104	88	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D.		
101) 1,4-Dichlorobenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	14.573	180	81	N.D.		

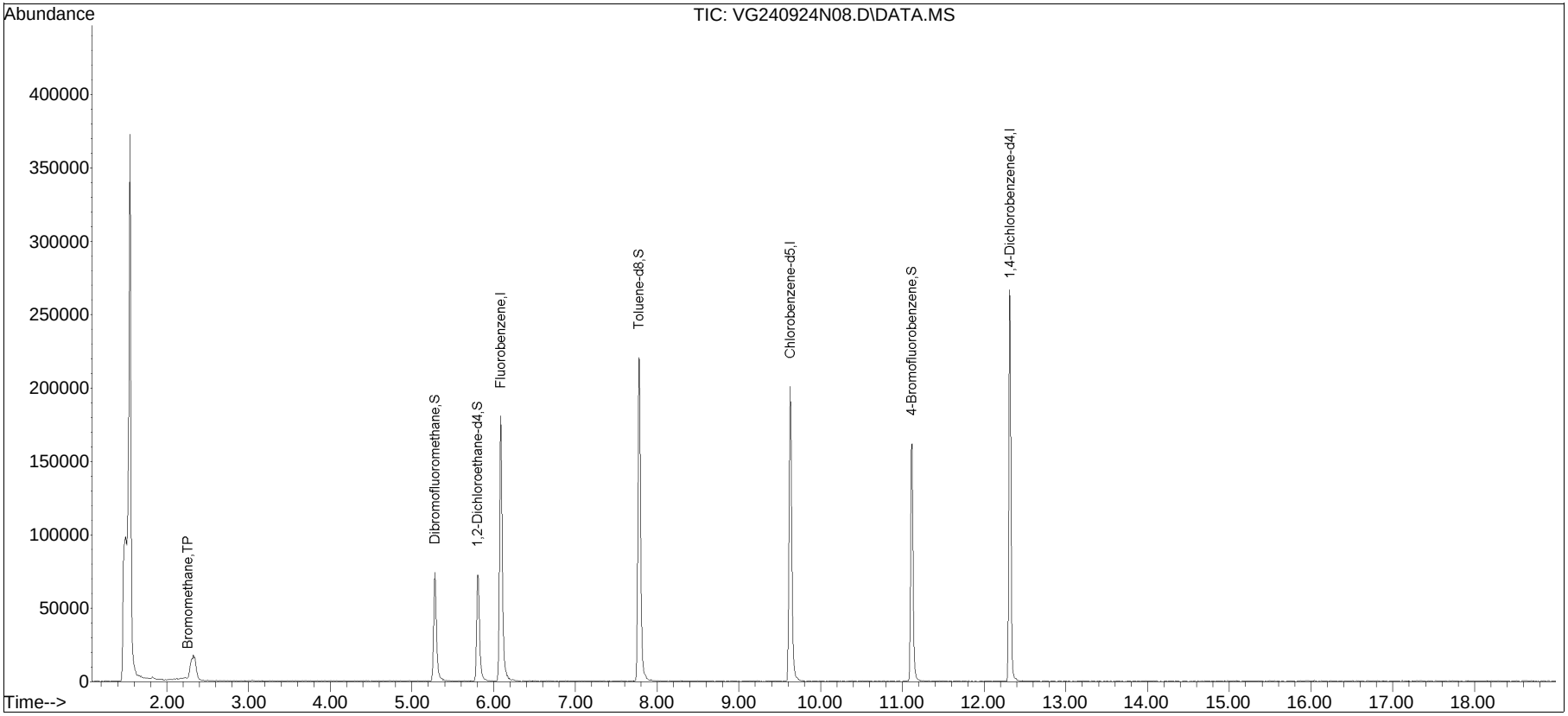
(#) = qualifier out of range (m) = manual integration (+) = signals summed

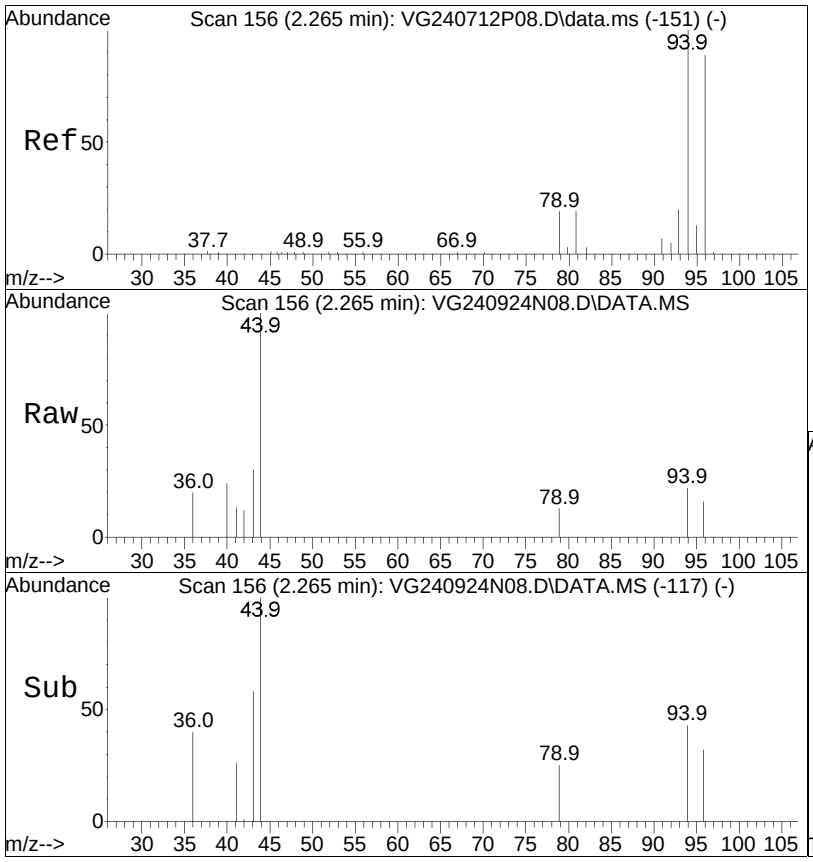
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N08.D
Acq On : 24 Sep 2024 10:03 pm
Operator : GONZO:MJV
Sample : L2453720-01,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 25 10:27:36 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

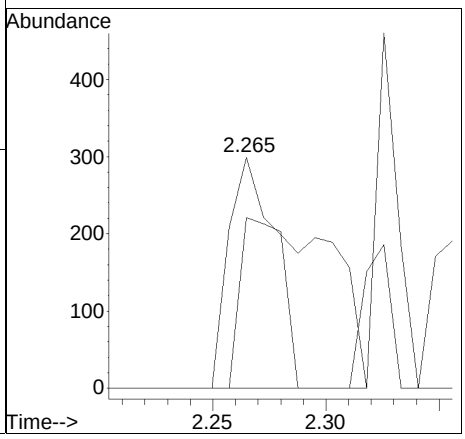




#5
Bromomethane
Concen: 0.31 ug/L
RT: 2.265 min Scan# 156
Delta R.T. -0.000 min
Lab File: VG240924N08.D
Acq: 24 Sep 2024 10:03 pm

Tgt Ion: 94 Resp: 748

Ion	Ratio	Lower	Upper
94	100		
96	38.8	75.2	115.2#



Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N08.D	Operator	: GONZO:MJV
Date Inj'd	: 9/24/2024 10:03 pm	Instrument	: Gonzo
Sample	: L2453720-01,31,10,10,,A	Quant Date	: 9/25/2024 7:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N09.D
Acq On : 24 Sep 2024 10:27 pm
Operator : GONZO:MJV
Sample : L2453720-02,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 25 11:08:10 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.086	96	197699	10.000 ug/L	0.00
Standard Area 1 = 237313			Recovery = 83.31%		
59) Chlorobenzene-d5	9.629	117	150251	10.000 ug/L	0.00
Standard Area 1 = 186402			Recovery = 80.61%		
79) 1,4-Dichlorobenzene-d4	12.319	152	76591	10.000 ug/L	0.00
Standard Area 1 = 107273			Recovery = 71.40%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.281	113	56323	10.907 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.07%		
43) 1,2-Dichloroethane-d4	5.805	65	65962	12.025 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.25%		
60) Toluene-d8	7.779	98	189350	10.038 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.38%		
83) 4-Bromofluorobenzene	11.118	95	60896	9.520 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.20%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D. d	
3) Chloromethane	2.128	50	74	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.356	94	83	N.D.	
6) Chloroethane	2.310	64	83	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	3.017	96	81	N.D.	
11) Carbon disulfide	3.040	76	523	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	3.397	43	80	Below Cal #	47
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.868	43	101	N.D.	
20) Methyl tert-butyl ether	3.815	73	950	0.076 ug/L #	65
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	5.114	83	594	0.078 ug/L #	85
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N09.D
Acq On : 24 Sep 2024 10:27 pm
Operator : GONZO:MJV
Sample : L2453720-02,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 25 11:08:10 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.296	97	563	0.080	ug/L	#	48
39) 2-Butanone	0.000		0	N.D.			
41) Benzene	0.000		0	N.D.			
44) 1,2-Dichloroethane	0.000		0	N.D.		d	
47) Methyl cyclohexane	0.000		0	N.D.			
48) Trichloroethene	0.000		0	N.D.		d	
51) 1,2-Dichloropropane	0.000		0	N.D.			
54) Bromodichloromethane	0.000		0	N.D.			
58) cis-1,3-Dichloropropene	0.000		0	N.D.			
61) Toluene	7.836	92	104	N.D.			
62) 4-Methyl-2-pentanone	0.000		0	N.D.			
63) Tetrachloroethene	0.000		0	N.D.			
65) trans-1,3-Dichloropropene	0.000		0	N.D.			
68) 1,1,2-Trichloroethane	0.000		0	N.D.			
69) Chlorodibromomethane	0.000		0	N.D.			
71) 1,2-Dibromoethane	0.000		0	N.D.			
72) 2-Hexanone	9.405	43	79	N.D.			
73) Chlorobenzene	0.000		0	N.D.			
74) Ethylbenzene	9.629	91	77	N.D.			
76) p/m Xylene	0.000		0	N.D.			
77) o Xylene	0.000		0	N.D.			
78) Styrene	0.000		0	N.D.			
80) Bromoform	0.000		0	N.D.			
82) Isopropylbenzene	0.000		0	N.D.			
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
100) 1,3-Dichlorobenzene	0.000		0	N.D.			
101) 1,4-Dichlorobenzene	0.000		0	N.D.			
104) 1,2-Dichlorobenzene	0.000		0	N.D.			
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.			
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.			

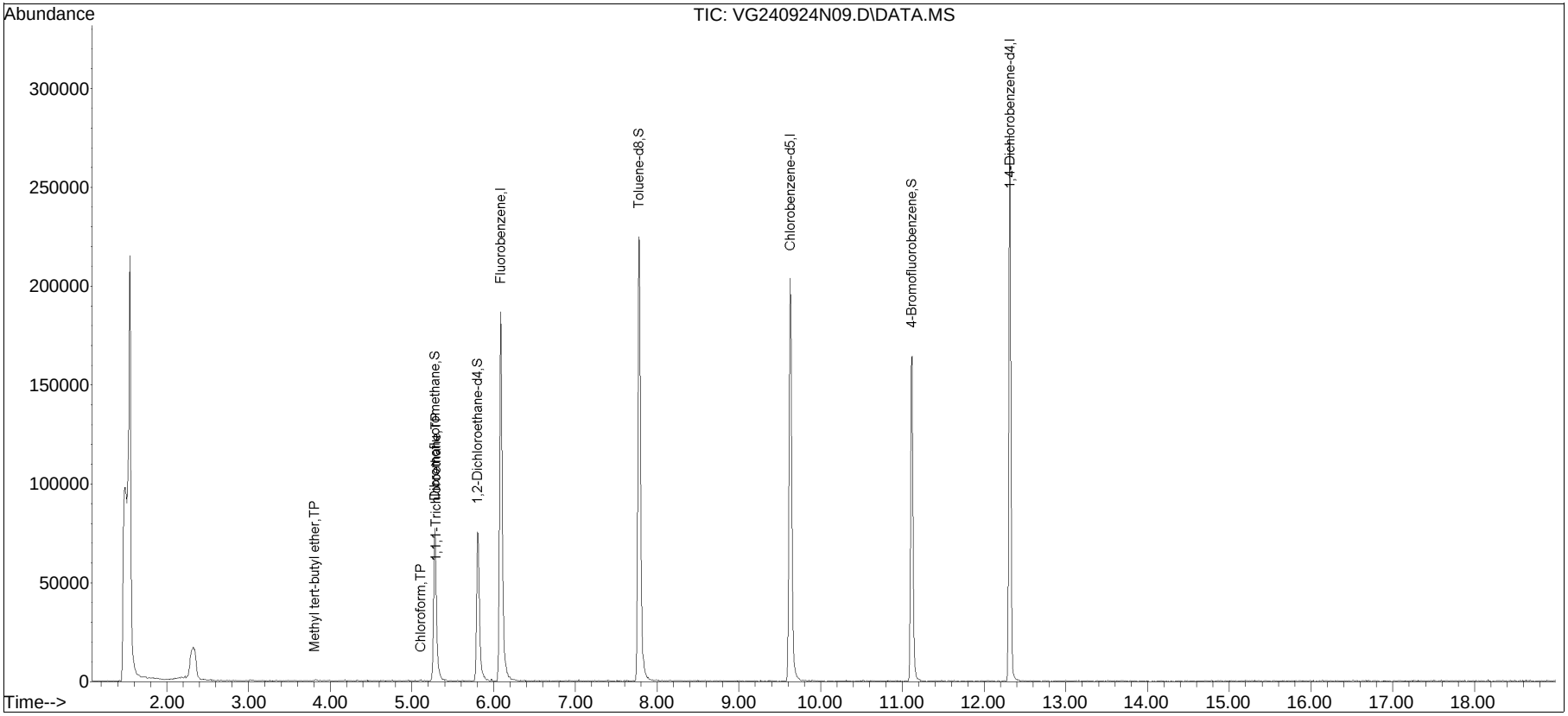
(#) = qualifier out of range (m) = manual integration (+) = signals summed

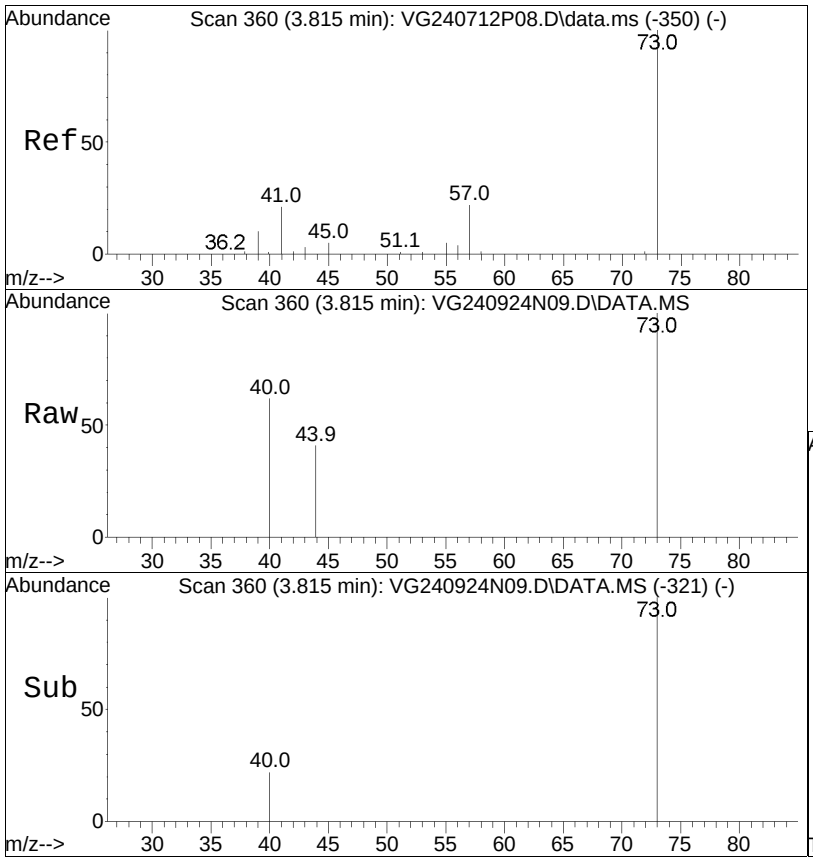
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N09.D
Acq On : 24 Sep 2024 10:27 pm
Operator : GONZO:MJV
Sample : L2453720-02,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 25 11:08:10 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

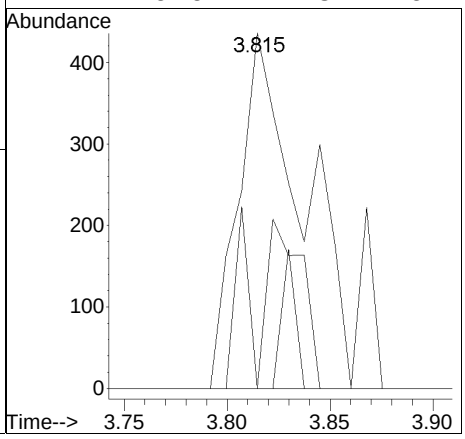


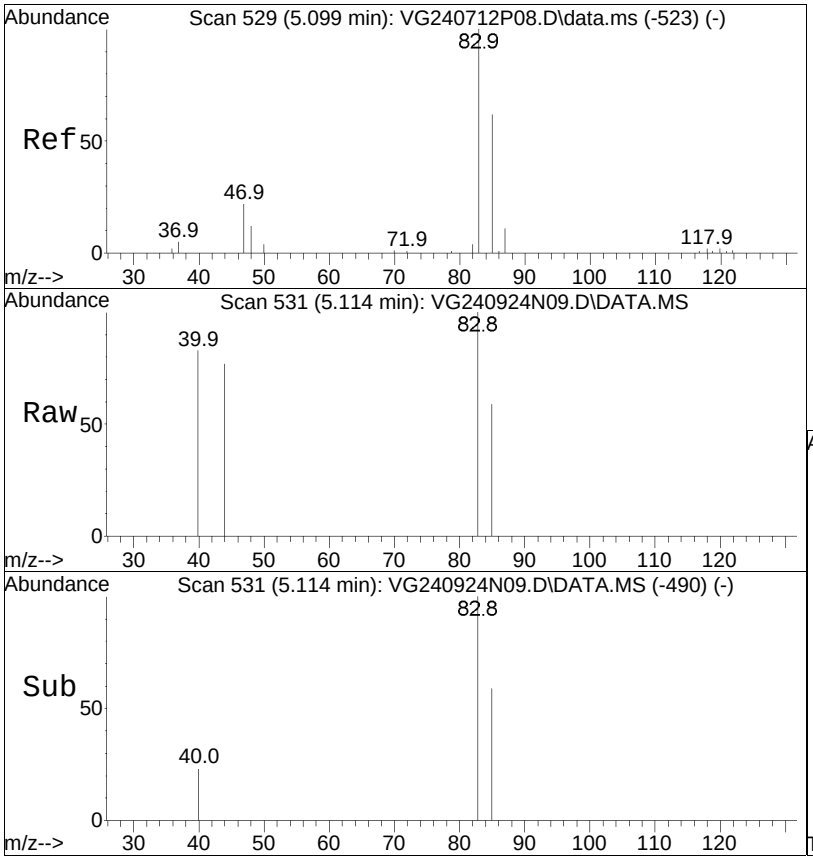


#20
Methyl tert-butyl ether
Concen: 0.08 ug/L
RT: 3.815 min Scan# 360
Delta R.T. -0.000 min
Lab File: VG240924N09.D
Acq: 24 Sep 2024 10:27 pm

Tgt Ion: 73 Resp: 950

Ion	Ratio	Lower	Upper
73	100		
57	10.7	12.5	26.1#
43	0.0	13.0	27.0#
41	0.0	12.5	26.1#

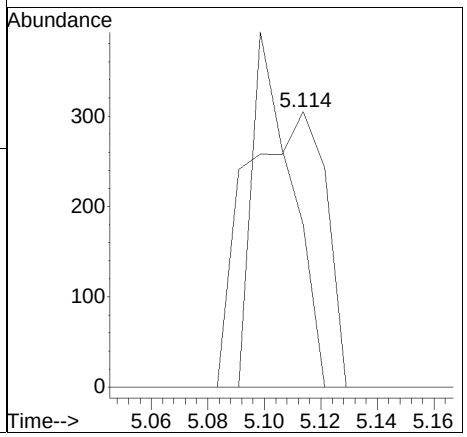


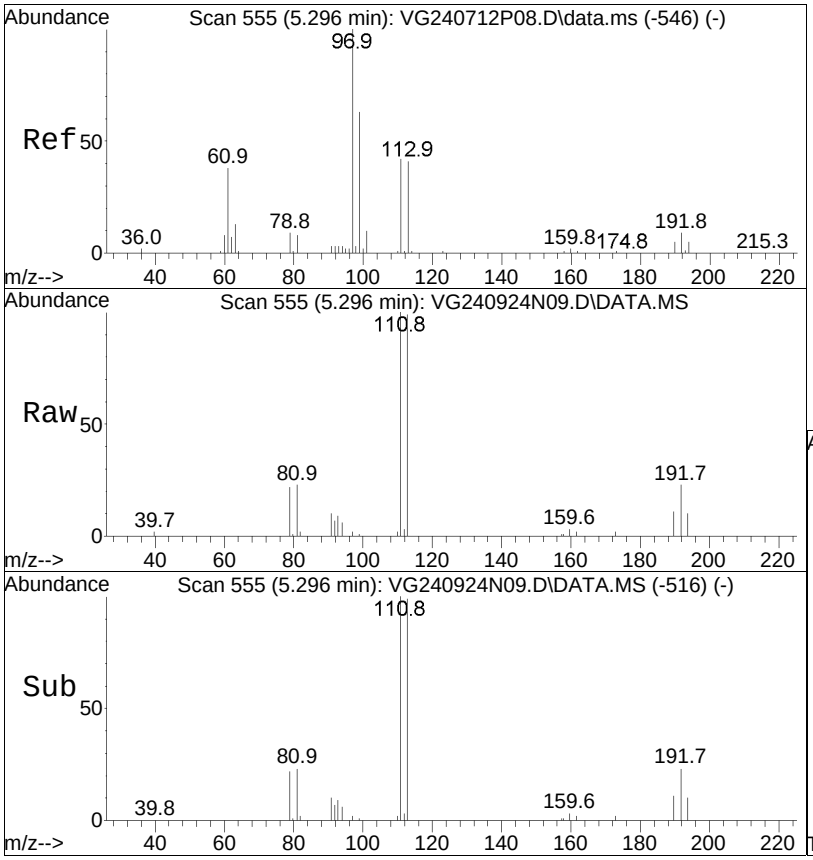


#32
Chloroform
Concen: 0.08 ug/L
RT: 5.114 min Scan# 531
Delta R.T. 0.015 min
Lab File: VG240924N09.D
Acq: 24 Sep 2024 10:27 pm

Tgt Ion: 83 Resp: 594

Ion	Ratio	Lower	Upper
83	100		
85	64.3	41.4	86.0
47	0.0	15.1	31.3#
48	0.0	7.7	16.1#

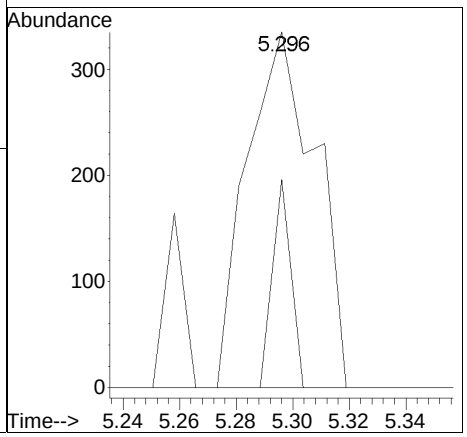




#37
1,1,1-Trichloroethane
Concen: 0.08 ug/L
RT: 5.296 min Scan# 555
Delta R.T. 0.000 min
Lab File: VG240924N09.D
Acq: 24 Sep 2024 10:27 pm

Tgt Ion: 97 Resp: 563

Ion	Ratio	Lower	Upper
97	100		
99	15.8	41.3	85.7#
61	13.3	26.0	54.0#
63	0.0	8.6	18.0#



Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N09.D	Operator	: GONZO:MJV
Date Inj'd	: 9/24/2024 10:27 pm	Instrument	: Gonzo
Sample	: L2453720-02,31,10,10,,A	Quant Date	: 9/25/2024 7:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N10.D
Acq On : 24 Sep 2024 10:51 pm
Operator : GONZO:MJV
Sample : L2453720-03,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 25 11:08:32 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	201196	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 84.78%			
59) Chlorobenzene-d5	9.629	117	148387	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 79.61%			
79) 1,4-Dichlorobenzene-d4	12.319	152	76340	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 71.16%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	54773	10.423	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.23%			
43) 1,2-Dichloroethane-d4	5.813	65	65217	11.682	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.82%			
60) Toluene-d8	7.779	98	190457	10.224	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.24%			
83) 4-Bromofluorobenzene	11.118	95	60797	9.535	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.35%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.535	85	78	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.265	94	294	0.117	ug/L	100
6) Chloroethane	0.000		0	N.D. d		
7) Trichlorofluoromethane	2.325	101	72	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.047	76	352	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.640	43	314	Below Cal #		47
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.670	43	148	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	4.848	56	84	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N10.D
Acq On : 24 Sep 2024 10:51 pm
Operator : GONZO:MJV
Sample : L2453720-03,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 25 11:08:32 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	5.319	97	81	N.D.		
39) 2-Butanone	0.000		0	N.D.	d	
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	5.828	62	104	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.620	91	333	N.D.		
76) p/m Xylene	9.818	106	76	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D.		
101) 1,4-Dichlorobenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

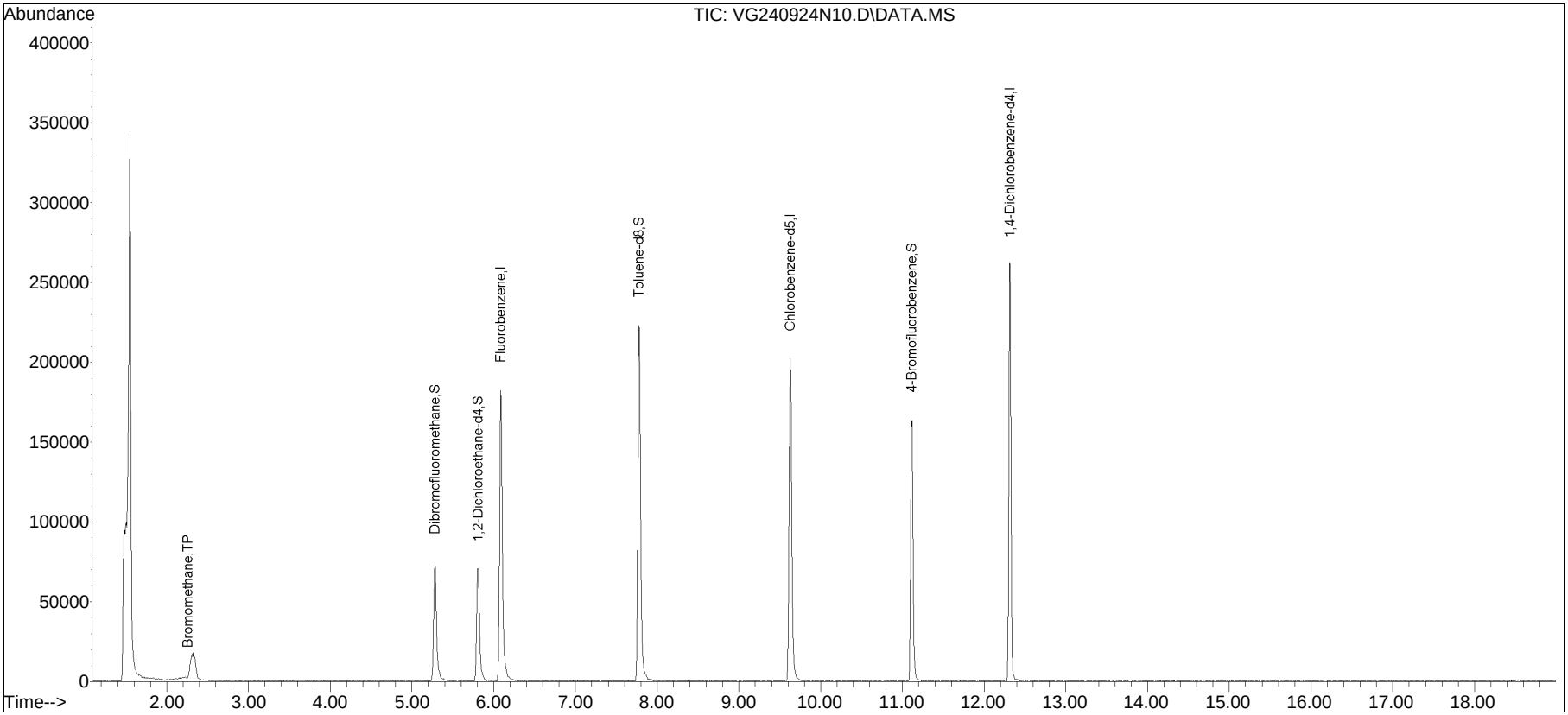
(#) = qualifier out of range (m) = manual integration (+) = signals summed

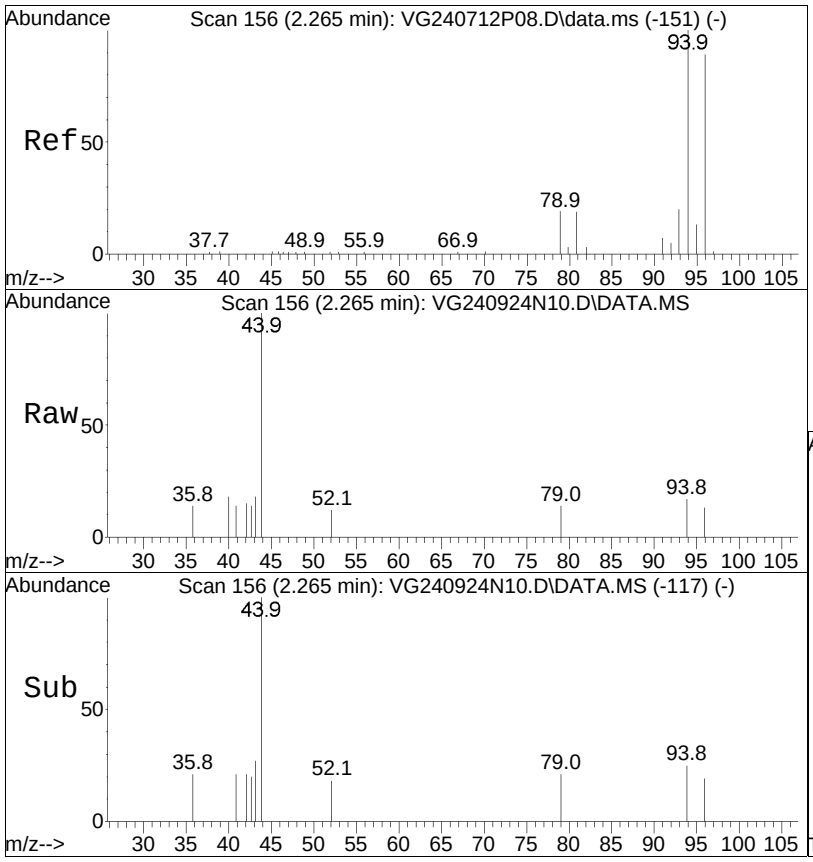
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N10.D
Acq On : 24 Sep 2024 10:51 pm
Operator : GONZO:MJV
Sample : L2453720-03,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 25 11:08:32 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

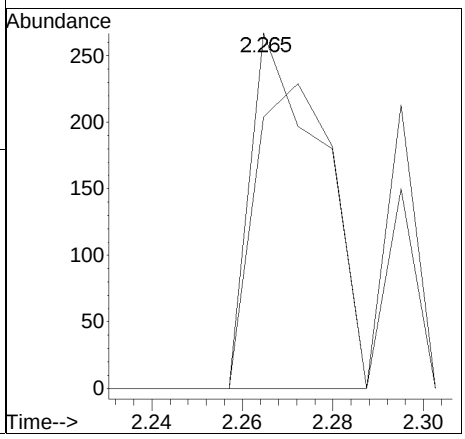




#5
Bromomethane
Concen: 0.12 ug/L
RT: 2.265 min Scan# 156
Delta R.T. -0.000 min
Lab File: VG240924N10.D
Acq: 24 Sep 2024 10:51 pm

Tgt Ion: 94 Resp: 294

Ion	Ratio	Lower	Upper
94	100		
96	95.2	75.2	115.2



Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N10.D	Operator	: GONZO:MJV
Date Inj'd	: 9/24/2024 10:51 pm	Instrument	: Gonzo
Sample	: L2453720-03,31,10,10,,A	Quant Date	: 9/25/2024 7:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N11.D
Acq On : 24 Sep 2024 11:15 pm
Operator : GONZO:MJV
Sample : L2453720-04,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 10:32:55 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.086	96	189091	10.000 ug/L	0.00
Standard Area 1 = 237313			Recovery = 79.68%		
59) Chlorobenzene-d5	9.629	117	142948	10.000 ug/L	0.00
Standard Area 1 = 186402			Recovery = 76.69%		
79) 1,4-Dichlorobenzene-d4	12.319	152	74368	10.000 ug/L	0.00
Standard Area 1 = 107273			Recovery = 69.33%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.281	113	53865	10.906 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.06%		
43) 1,2-Dichloroethane-d4	5.805	65	64925	12.375 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 123.75%		
60) Toluene-d8	7.779	98	181681	10.124 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.24%		
83) 4-Bromofluorobenzene	11.118	95	57108	9.194 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.94%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.535	85	86	N.D.	
3) Chloromethane	0.000		0	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.265	94	433	0.184 ug/L #	19
6) Chloroethane	0.000		0	N.D. d	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.055	76	95	N.D.	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	3.647	43	269	Below Cal #	47
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.723	43	85	N.D.	
20) Methyl tert-butyl ether	3.989	73	77	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N11.D
Acq On : 24 Sep 2024 11:15 pm
Operator : GONZO:MJV
Sample : L2453720-04,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 10:32:55 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	5.471	43	70	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.	d	
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.843	92	148	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	8.896	129	64	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.637	91	121	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.912	105	78	N.D.		
87) 1,1,2,2-Tetrachloroethane	11.118	83	85	N.D.		
100) 1,3-Dichlorobenzene	12.319	146	79	N.D.		
101) 1,4-Dichlorobenzene	12.319	146	79	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

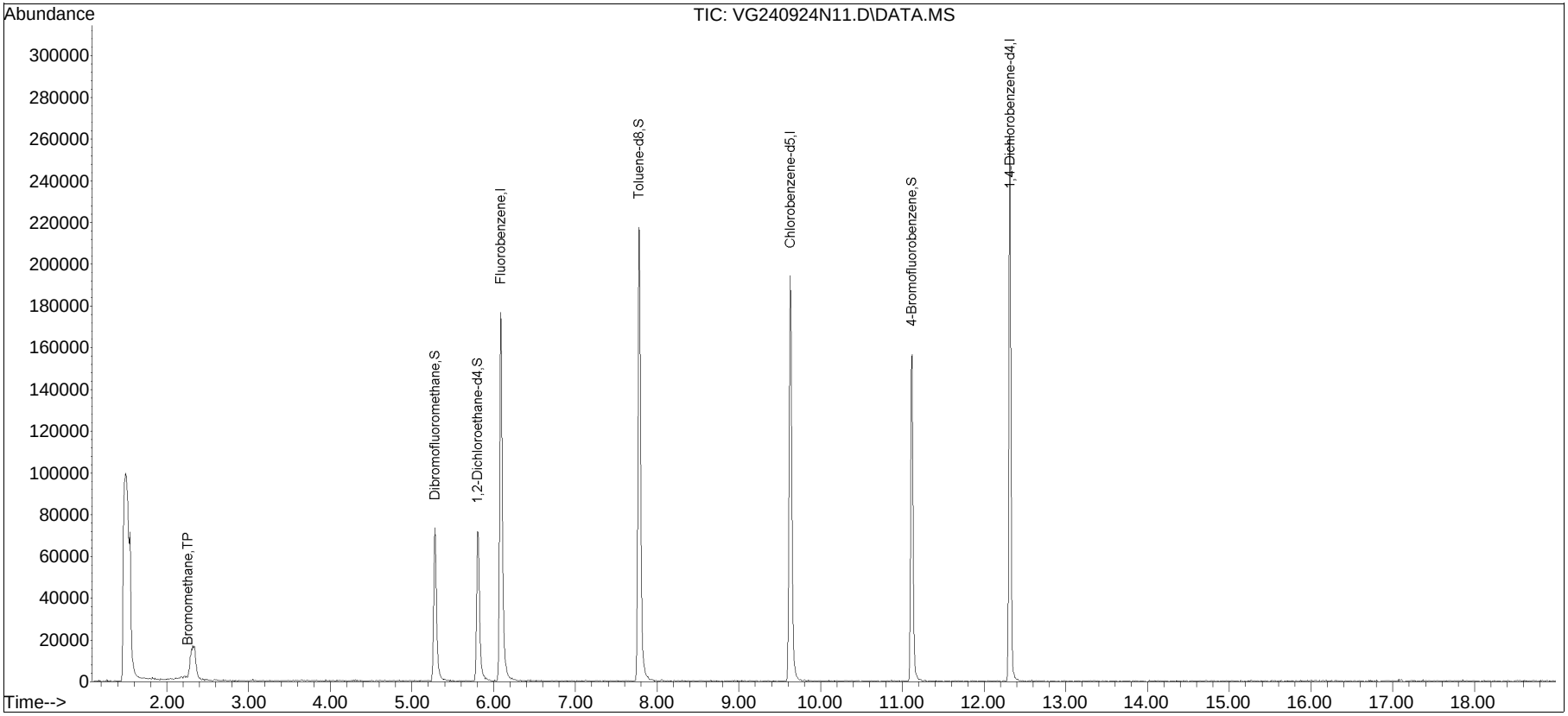
(#) = qualifier out of range (m) = manual integration (+) = signals summed

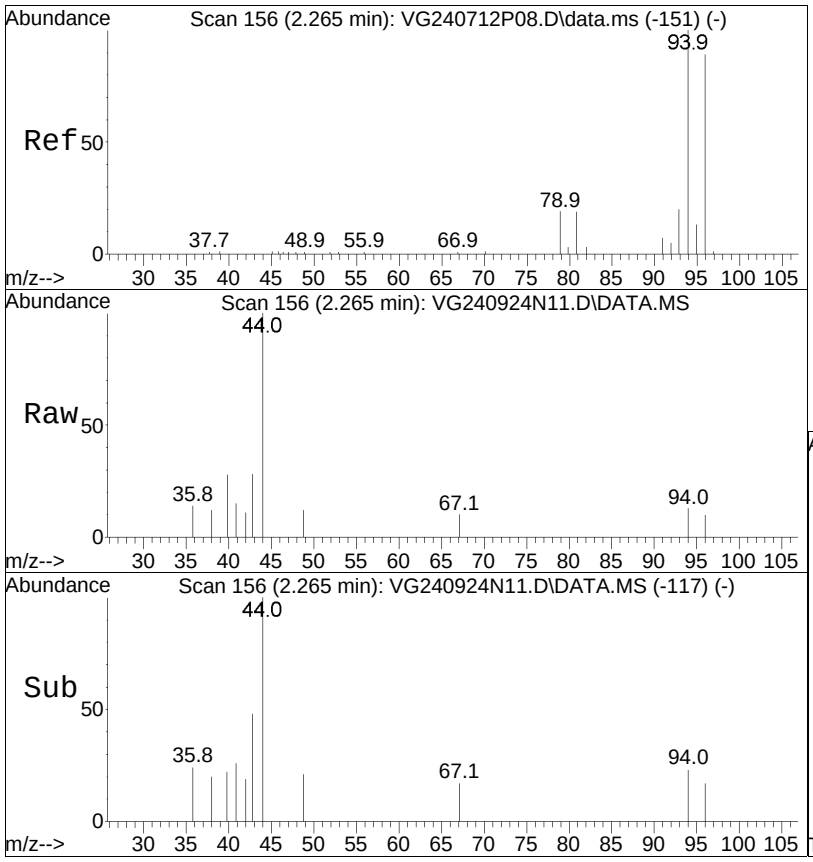
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N11.D
Acq On : 24 Sep 2024 11:15 pm
Operator : GONZO:MJV
Sample : L2453720-04,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 25 10:32:55 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

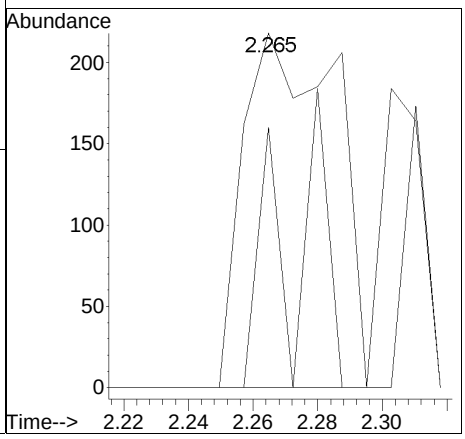




#5
Bromomethane
Concen: 0.18 ug/L
RT: 2.265 min Scan# 156
Delta R.T. -0.000 min
Lab File: VG240924N11.D
Acq: 24 Sep 2024 11:15 pm

Tgt Ion: 94 Resp: 433

Ion	Ratio	Lower	Upper
94	100		
96	16.9	75.2	115.2#



Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N11.D	Operator	: GONZO:MJV
Date Inj'd	: 9/24/2024 11:15 pm	Instrument	: Gonzo
Sample	: L2453720-04,31,10,10,,A	Quant Date	: 9/25/2024 7:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N12.D
Acq On : 24 Sep 2024 11:39 pm
Operator : GONZO:MJV
Sample : L2453720-05,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 25 11:09:20 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	186685	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 78.67%			
59) Chlorobenzene-d5	9.629	117	140219	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 75.22%			
79) 1,4-Dichlorobenzene-d4	12.319	152	72027	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 67.14%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	52403	10.747	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.47%			
43) 1,2-Dichloroethane-d4	5.805	65	63630	12.284	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.84%			
60) Toluene-d8	7.779	98	173828	9.875	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.75%			
83) 4-Bromofluorobenzene	11.118	95	57187	9.506	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D. d		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.265	94	223	0.096	ug/L	81
6) Chloroethane	0.000		0	N.D. d		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D. d		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.647	43	201	Below Cal #		47
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.754	43	81	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N12.D
Acq On : 24 Sep 2024 11:39 pm
Operator : GONZO:MJV
Sample : L2453720-05,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 25 11:09:20 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.	d	
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.858	92	65	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.629	91	194	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D.		
101) 1,4-Dichlorobenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

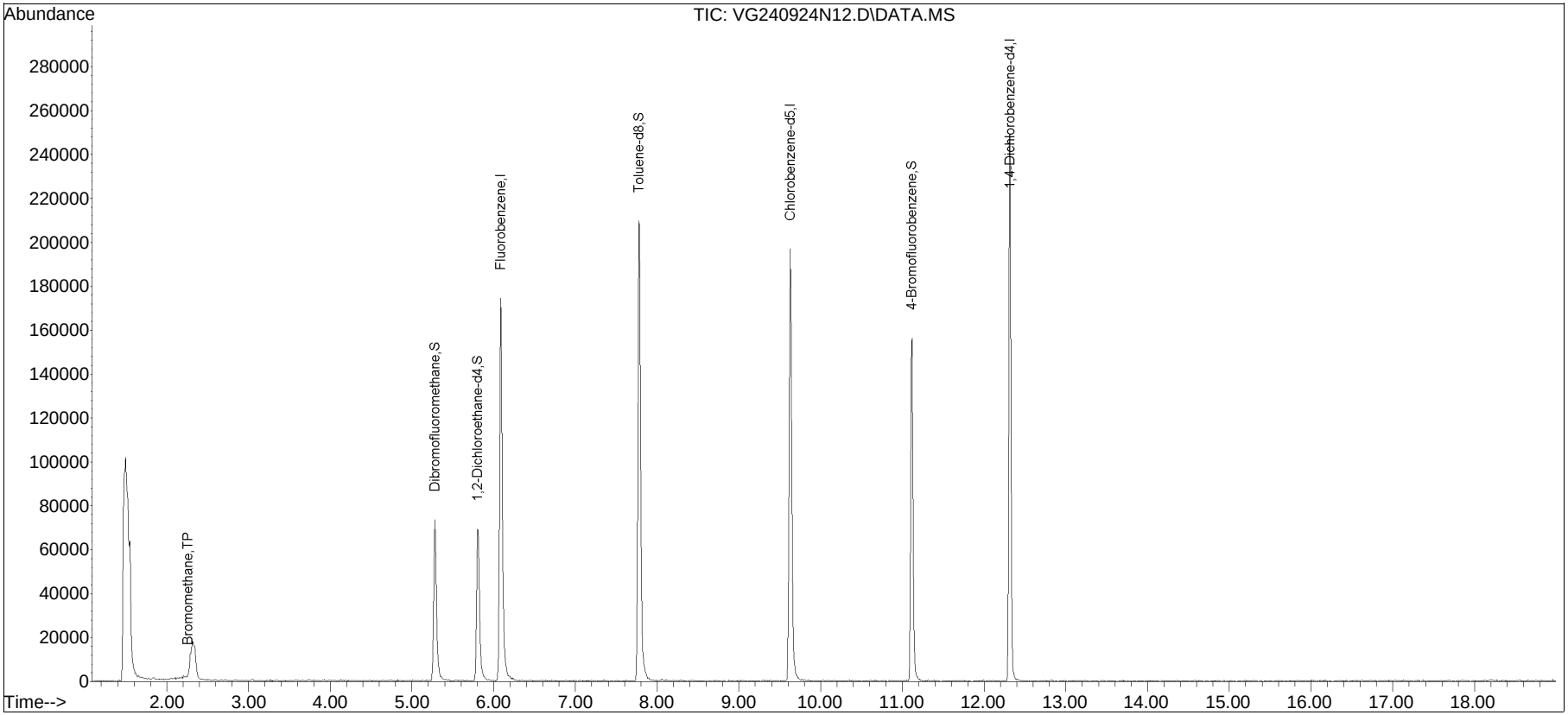
(#) = qualifier out of range (m) = manual integration (+) = signals summed

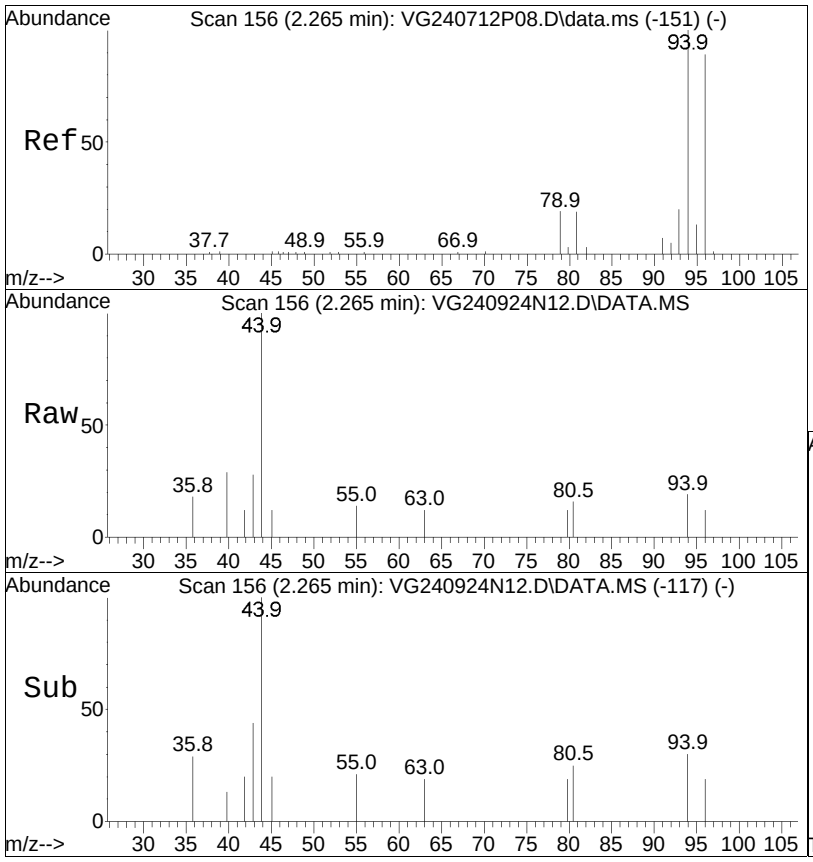
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N12.D
Acq On : 24 Sep 2024 11:39 pm
Operator : GONZO:MJV
Sample : L2453720-05,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 25 11:09:20 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

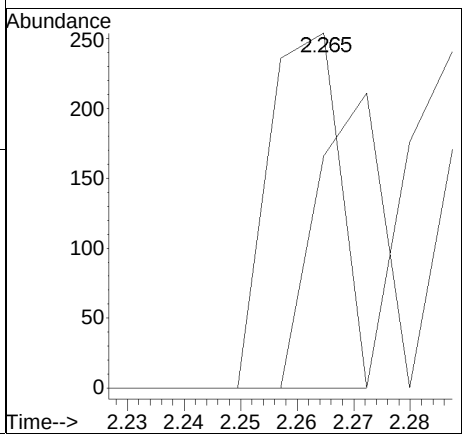




#5
Bromomethane
Concen: 0.10 ug/L
RT: 2.265 min Scan# 156
Delta R.T. -0.000 min
Lab File: VG240924N12.D
Acq: 24 Sep 2024 11:39 pm

Tgt Ion: 94 Resp: 223

Ion	Ratio	Lower	Upper
94	100		
96	77.1	75.2	115.2



Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N12.D	Operator	: GONZO:MJV
Date Inj'd	: 9/24/2024 11:39 pm	Instrument	: Gonzo
Sample	: L2453720-05,31,10,10,,A	Quant Date	: 9/25/2024 7:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N13.D
Acq On : 25 Sep 2024 12:02 am
Operator : GONZO:MJV
Sample : L2453720-06,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 25 10:34:01 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	188604	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 79.47%			
59) Chlorobenzene-d5	9.629	117	141117	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 75.71%			
79) 1,4-Dichlorobenzene-d4	12.310	152	72983	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 68.03%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	52920	10.743	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.43%			
43) 1,2-Dichloroethane-d4	5.805	65	62157	11.878	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 118.78%			
60) Toluene-d8	7.779	98	178536	10.078	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.78%			
83) 4-Bromofluorobenzene	11.118	95	55896	9.170	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.513	85	242	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.265	94	78	N.D.		
6) Chloroethane	2.333	64	74	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	3.024	96	1659	0.465	ug/L #	78
11) Carbon disulfide	0.000		0	N.D. d		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.571	84	72	N.D.		
17) Acetone	3.807	43	84	Below Cal #		47
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.807	43	84	N.D.		
20) Methyl tert-butyl ether	3.822	73	678	N.D.		
23) 1,1-Dichloroethane	4.316	63	4118	0.583	ug/L	98
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	5.106	83	2072	0.286	ug/L #	93
34) Carbon tetrachloride	0.000		0	N.D. d		

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N13.D
Acq On : 25 Sep 2024 12:02 am
Operator : GONZO:MJV
Sample : L2453720-06,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 25 10:34:01 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	5.296	97	3869	0.580	ug/L #	92
39) 2-Butanone	5.311	43	82	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D. d		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	6.284	95	868	0.191	ug/L #	41
51) 1,2-Dichloropropane	6.823	63	3367	0.854	ug/L	87
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.288	166	3658	0.850	ug/L	84
65) trans-1,3-Dichloropropene	0.000		0	N.D. d		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.637	91	316	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	10.468	106	77	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D.		
101) 1,4-Dichlorobenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	12.969	146	102	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

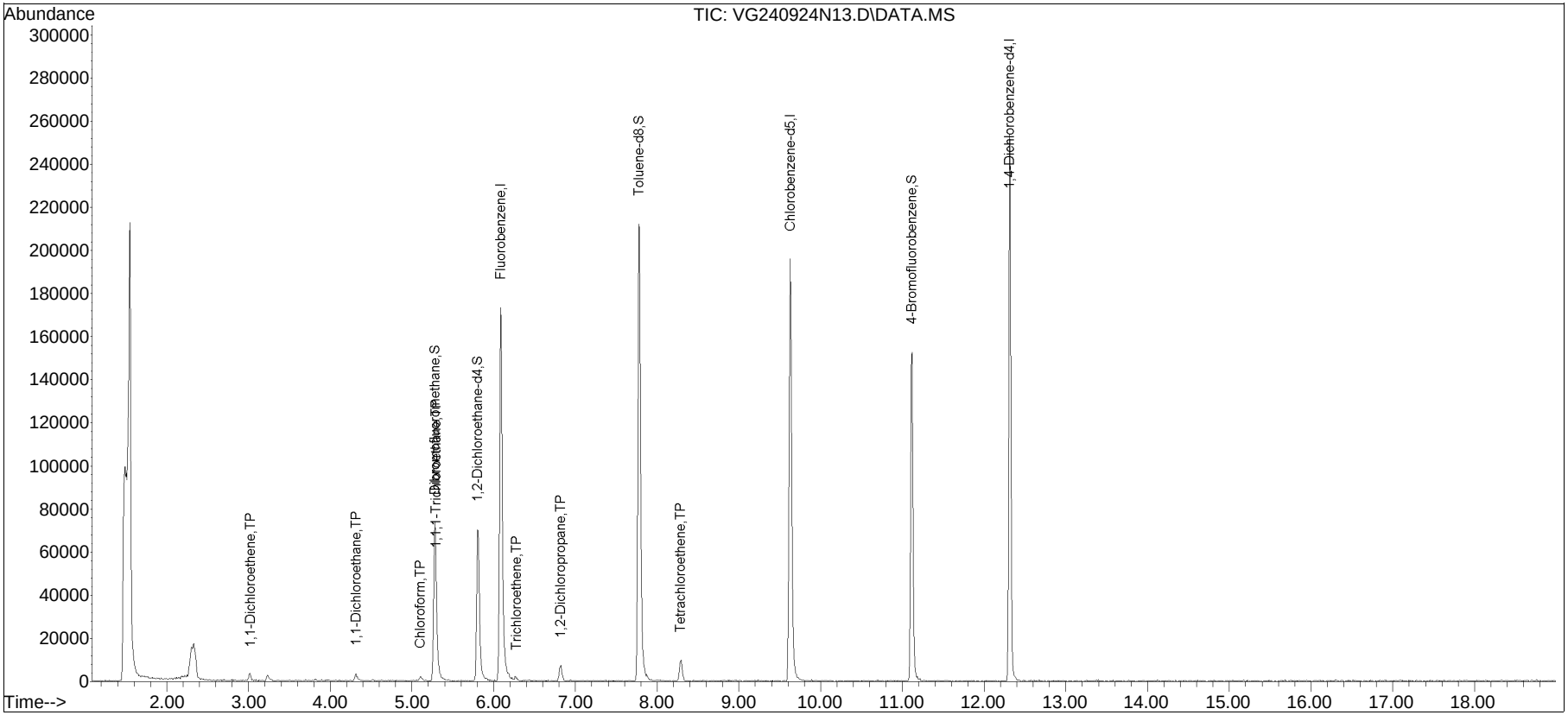
(#) = qualifier out of range (m) = manual integration (+) = signals summed

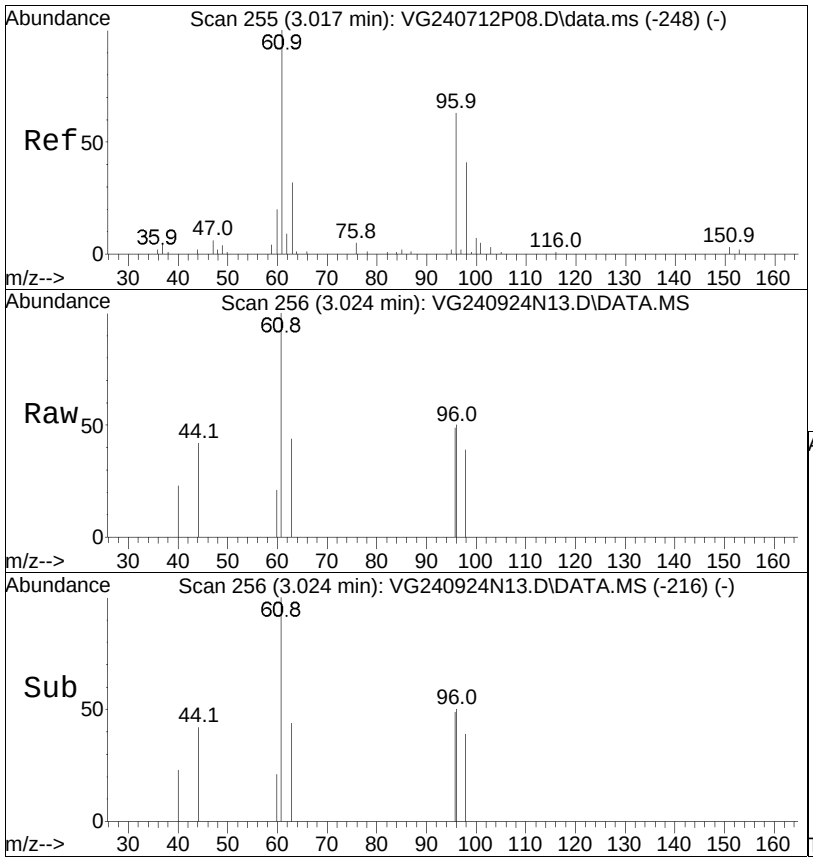
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N13.D
Acq On : 25 Sep 2024 12:02 am
Operator : GONZO:MJV
Sample : L2453720-06,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 25 10:34:01 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

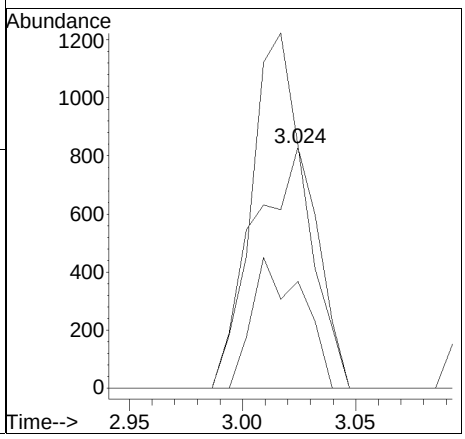


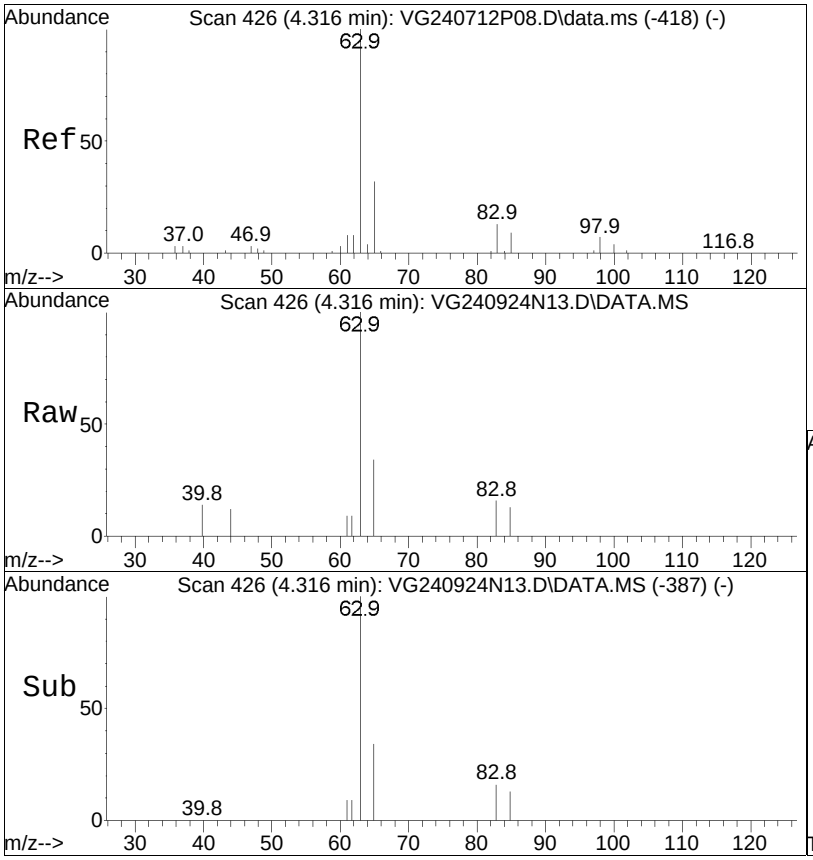


#10
1,1-Dichloroethene
Concen: 0.46 ug/L
RT: 3.024 min Scan# 256
Delta R.T. 0.007 min
Lab File: VG240924N13.D
Acq: 25 Sep 2024 12:02 am

Tgt Ion: 96 Resp: 1659

Ion	Ratio	Lower	Upper
96	100		
61	121.9	124.2	186.4#
63	42.1	40.0	60.0

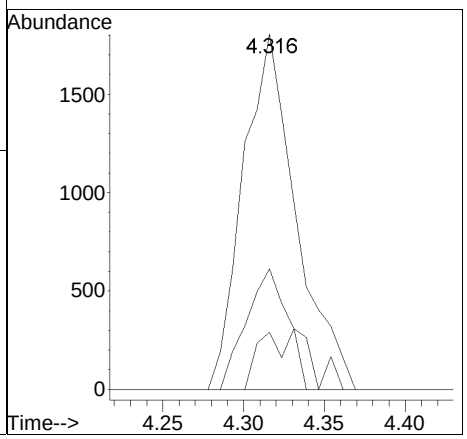


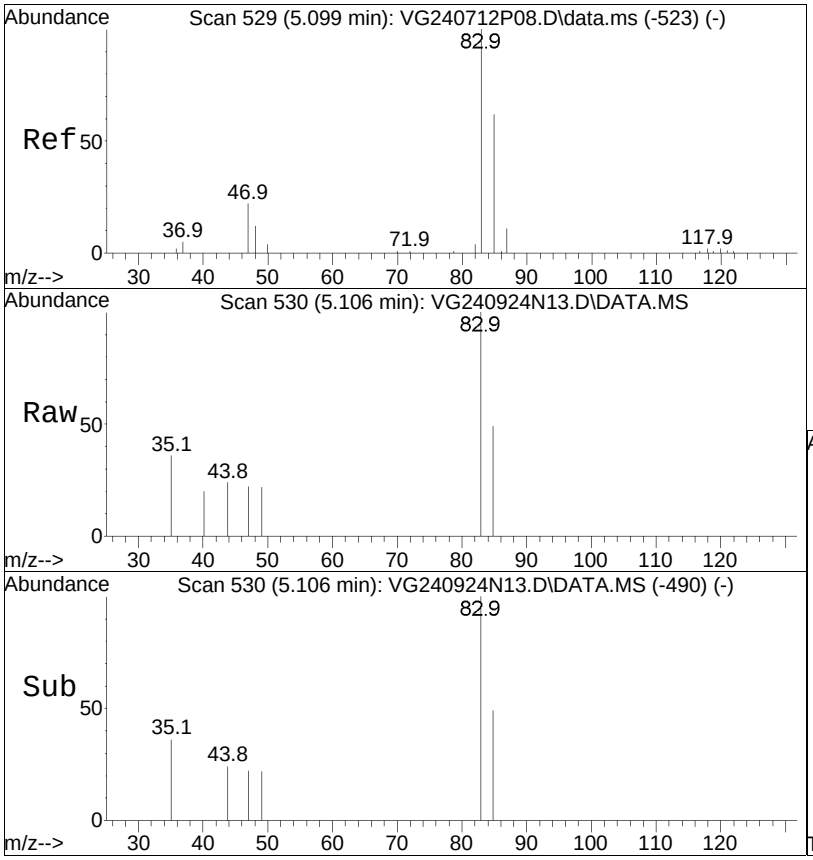


#23
1,1-Dichloroethane
Concen: 0.58 ug/L
RT: 4.316 min Scan# 426
Delta R.T. -0.000 min
Lab File: VG240924N13.D
Acq: 25 Sep 2024 12:02 am

Tgt Ion: 63 Resp: 4118

Ion	Ratio	Lower	Upper
63	100		
65	31.1	10.4	50.4
83	11.0	0.0	33.2

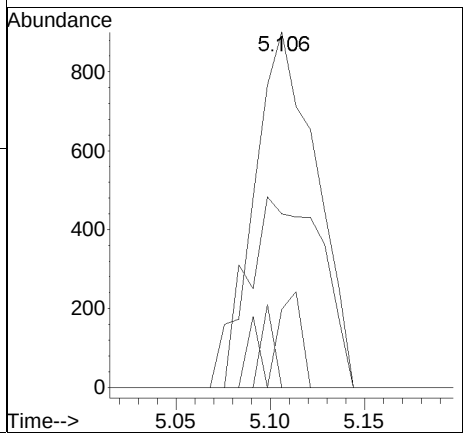


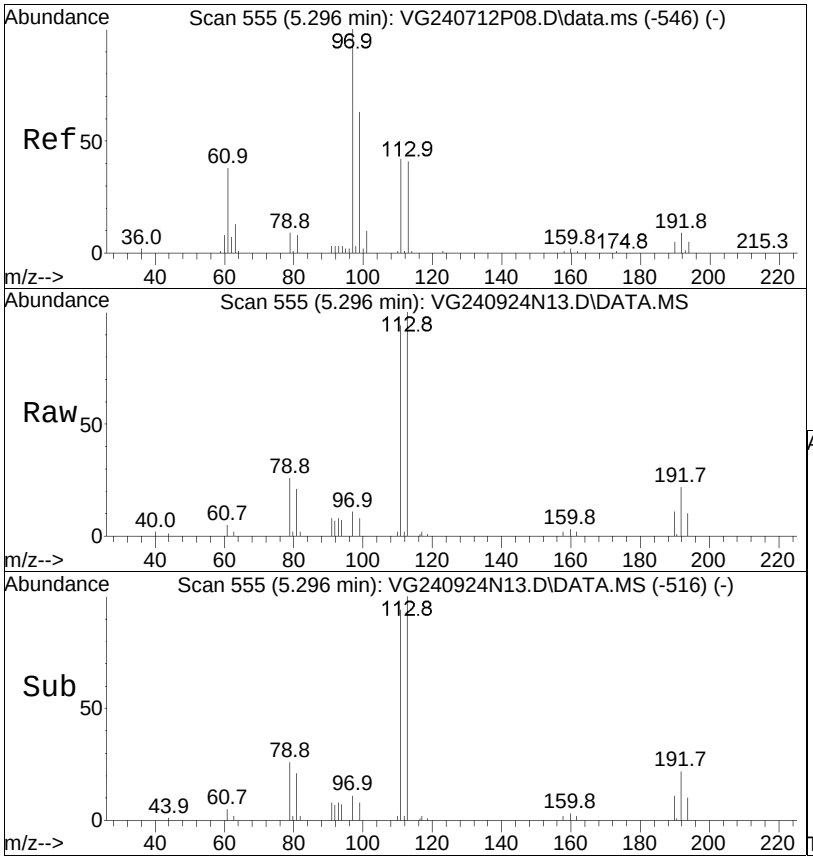


#32
Chloroform
Concen: 0.29 ug/L
RT: 5.106 min Scan# 530
Delta R.T. 0.007 min
Lab File: VG240924N13.D
Acq: 25 Sep 2024 12:02 am

Tgt Ion: 83 Resp: 2072

Ion	Ratio	Lower	Upper
83	100		
85	63.4	41.4	86.0
47	13.7	15.1	31.3#
48	4.6	7.7	16.1#

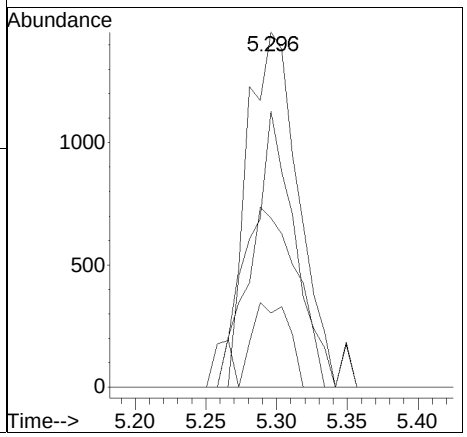


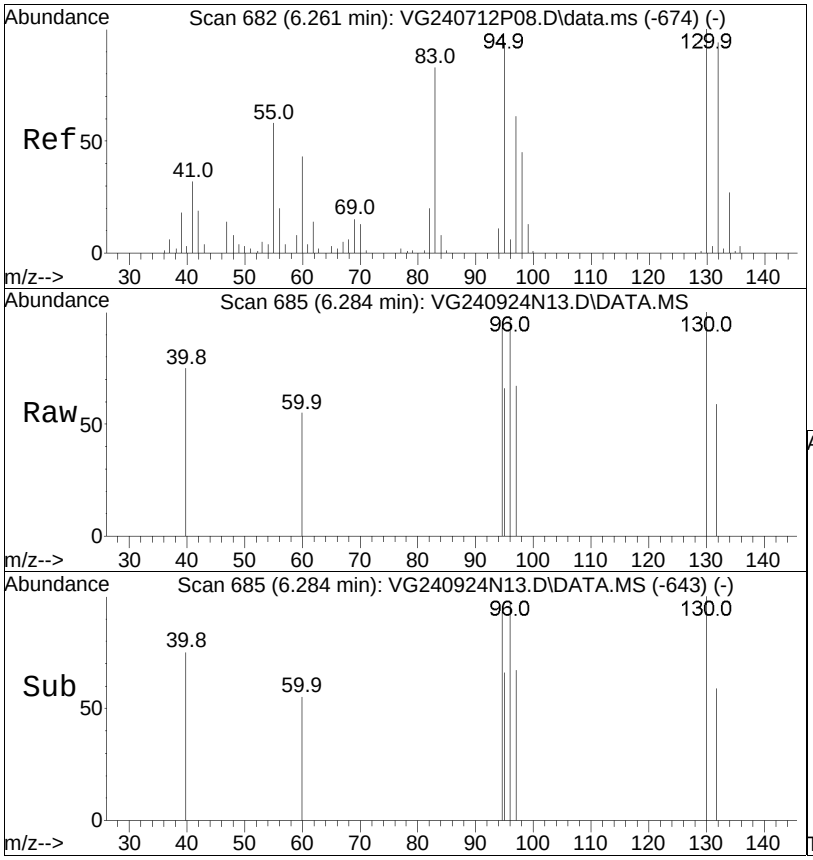


#37
1,1,1-Trichloroethane
Concen: 0.58 ug/L
RT: 5.296 min Scan# 555
Delta R.T. -0.000 min
Lab File: VG240924N13.D
Acq: 25 Sep 2024 12:02 am

Tgt Ion: 97 Resp: 3869

Ion	Ratio	Lower	Upper
97	100		
99	61.6	41.3	85.7
61	49.2	26.0	54.0
63	18.6	8.6	18.0#

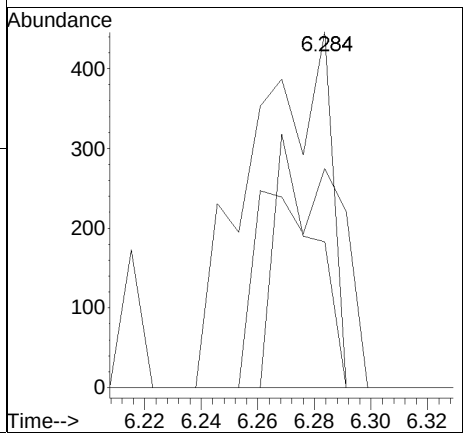


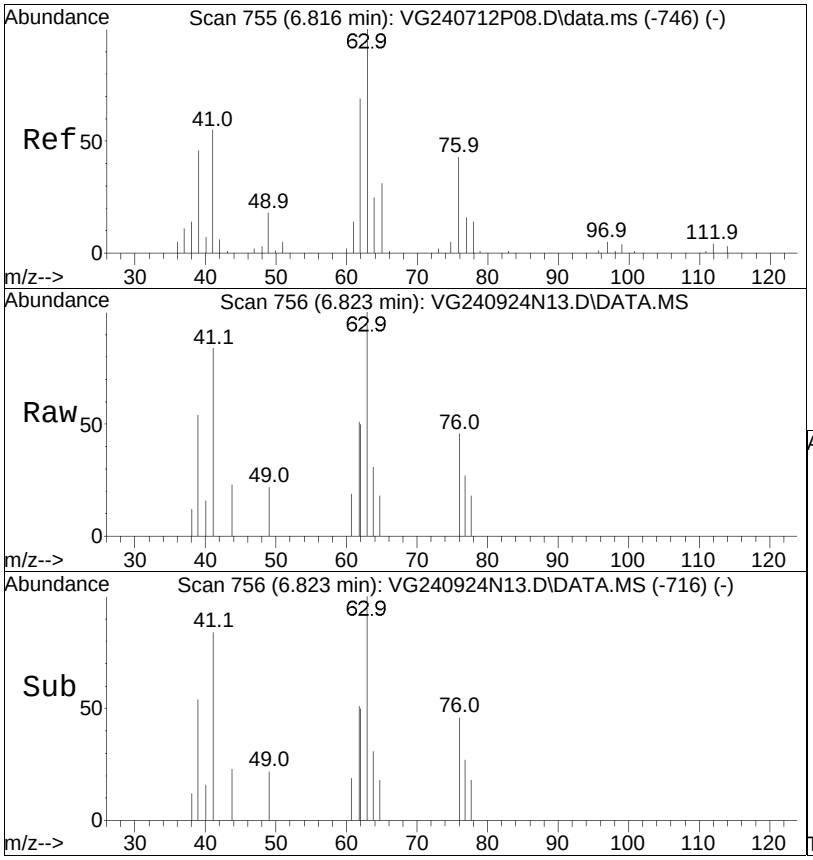


#48
Trichloroethene
Concen: 0.19 ug/L
RT: 6.284 min Scan# 685
Delta R.T. 0.023 min
Lab File: VG240924N13.D
Acq: 25 Sep 2024 12:02 am

Tgt Ion: 95 Resp: 868

Ion	Ratio	Lower	Upper
95	100		
97	0.0	54.0	81.0#
130	61.8	85.0	127.4#

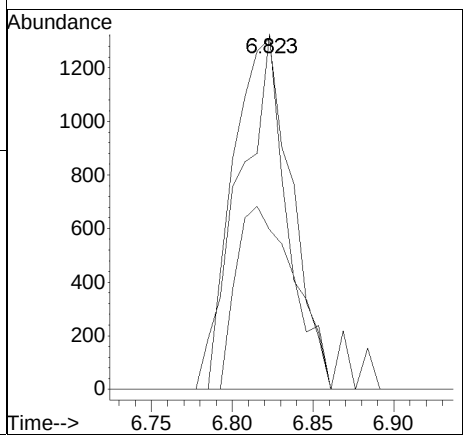


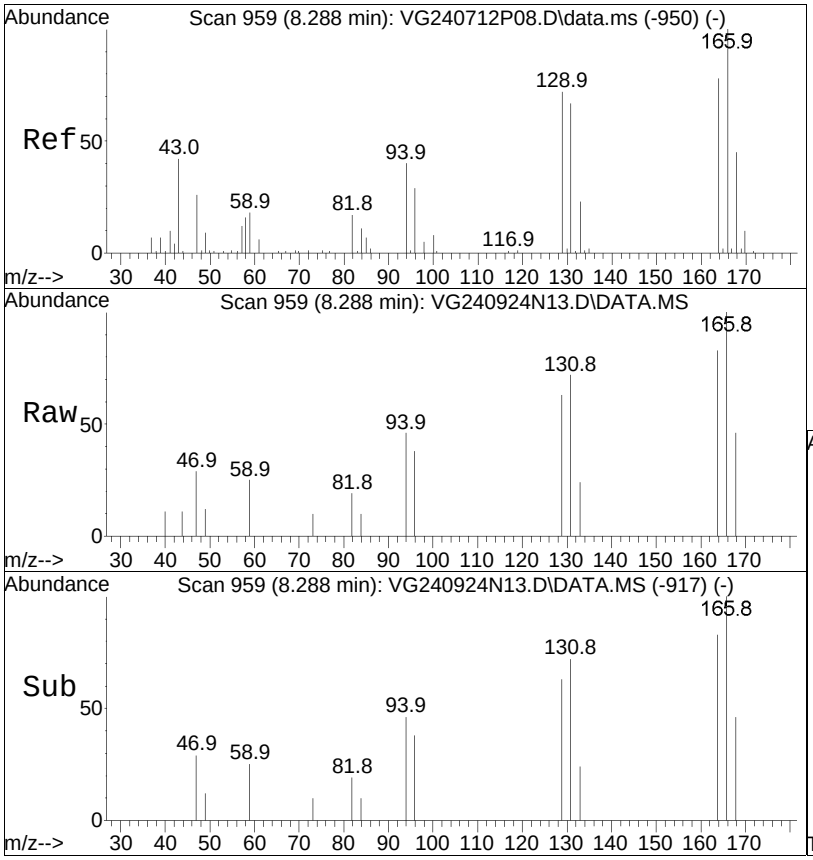


#51
1,2-Dichloropropane
Concen: 0.85 ug/L
RT: 6.823 min Scan# 756
Delta R.T. 0.007 min
Lab File: VG240924N13.D
Acq: 25 Sep 2024 12:02 am

Tgt Ion: 63 Resp: 3367

Ion	Ratio	Lower	Upper
63	100		
62	82.2	56.5	84.7
76	50.2	34.6	52.0

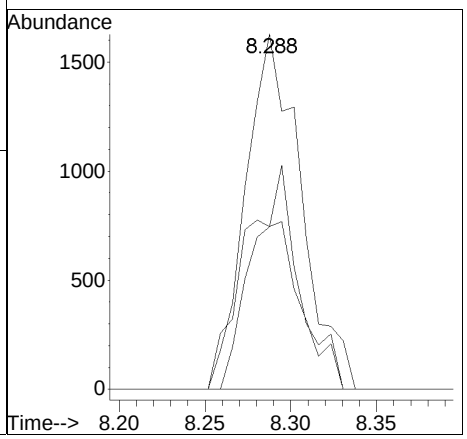




#63
Tetrachloroethene
Concen: 0.85 ug/L
RT: 8.288 min Scan# 959
Delta R.T. -0.000 min
Lab File: VG240924N13.D
Acq: 25 Sep 2024 12:02 am

Tgt Ion:166 Resp: 3658

Ion	Ratio	Lower	Upper
166	100		
168	52.8	27.3	67.3
94	55.7	20.5	60.5



Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N13.D	Operator	: GONZO:MJV
Date Inj'd	: 9/25/2024 12:02 am	Instrument	: Gonzo
Sample	: L2453720-06,31,10,10,,A	Quant Date	: 9/25/2024 7:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N14.D
Acq On : 25 Sep 2024 12:26 am
Operator : GONZO:MJV
Sample : L2453720-07,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 25 10:34:21 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	185109	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 78.00%			
59) Chlorobenzene-d5	9.629	117	139841	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 75.02%			
79) 1,4-Dichlorobenzene-d4	12.310	152	70768	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 65.97%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	51627	10.678	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.78%			
43) 1,2-Dichloroethane-d4	5.805	65	62820	12.231	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.31%			
60) Toluene-d8	7.779	98	175172	9.978	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.78%			
83) 4-Bromofluorobenzene	11.109	95	55399	9.373	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.73%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D. d		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.265	94	117	N.D.		
6) Chloroethane	2.310	64	171	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.047	76	191	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.647	43	727	Below Cal #		65
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.761	43	71	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N14.D
Acq On : 25 Sep 2024 12:26 am
Operator : GONZO:MJV
Sample : L2453720-07,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 25 10:34:21 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	5.258	43	82	N.D.		
41) Benzene	5.805	78	71	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.	d	
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.793	92	68	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	8.431	75	73	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	9.348	43	73	N.D.		
73) Chlorobenzene	9.571	112	99	N.D.		
74) Ethylbenzene	9.637	91	79	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	12.310	146	79	N.D.		
101) 1,4-Dichlorobenzene	12.310	146	79	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

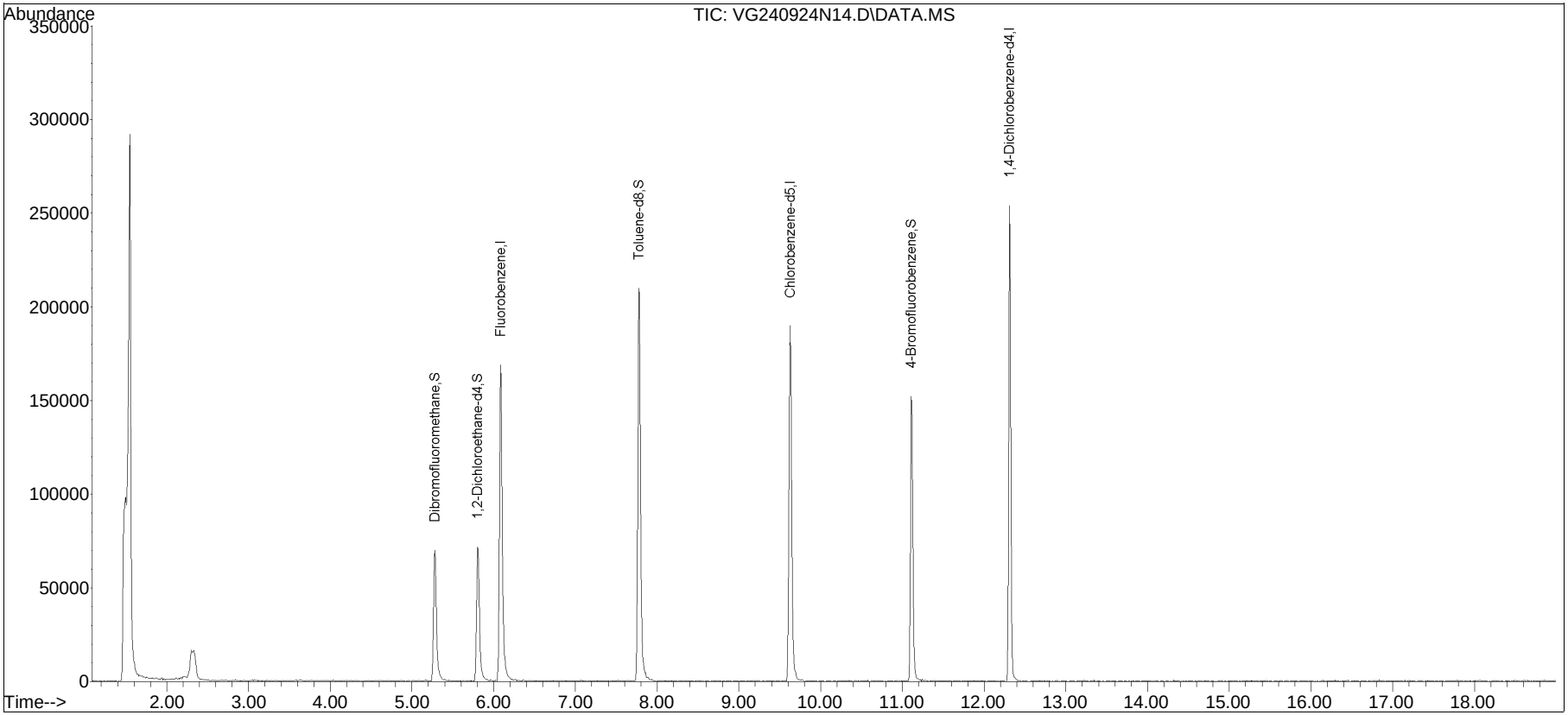
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N14.D
Acq On : 25 Sep 2024 12:26 am
Operator : GONZO:MJV
Sample : L2453720-07,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 25 10:34:21 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•



Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N14.D	Operator	: GONZO:MJV
Date Inj'd	: 9/25/2024 12:26 am	Instrument	: Gonzo
Sample	: L2453720-07,31,10,10,,A	Quant Date	: 9/25/2024 7:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N15.D
Acq On : 25 Sep 2024 12:50 am
Operator : GONZO:MJV
Sample : L2453720-08,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 25 10:35:15 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	179189	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 75.51%			
59) Chlorobenzene-d5	9.629	117	140371	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 75.31%			
79) 1,4-Dichlorobenzene-d4	12.310	152	69742	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 65.01%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	50540	10.799	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.99%			
43) 1,2-Dichloroethane-d4	5.805	65	60694	12.207	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.07%			
60) Toluene-d8	7.779	98	171702	9.744	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.44%			
83) 4-Bromofluorobenzene	11.118	95	55533	9.534	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.	d	
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.	d	
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	5.091	83	431	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N15.D
Acq On : 25 Sep 2024 12:50 am
Operator : GONZO:MJV
Sample : L2453720-08,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 25 10:35:15 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	5.417	43	72	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	5.873	62	89	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	8.882	107	70	N.D.		
72) 2-Hexanone	9.262	43	69	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D.		
101) 1,4-Dichlorobenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d	
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

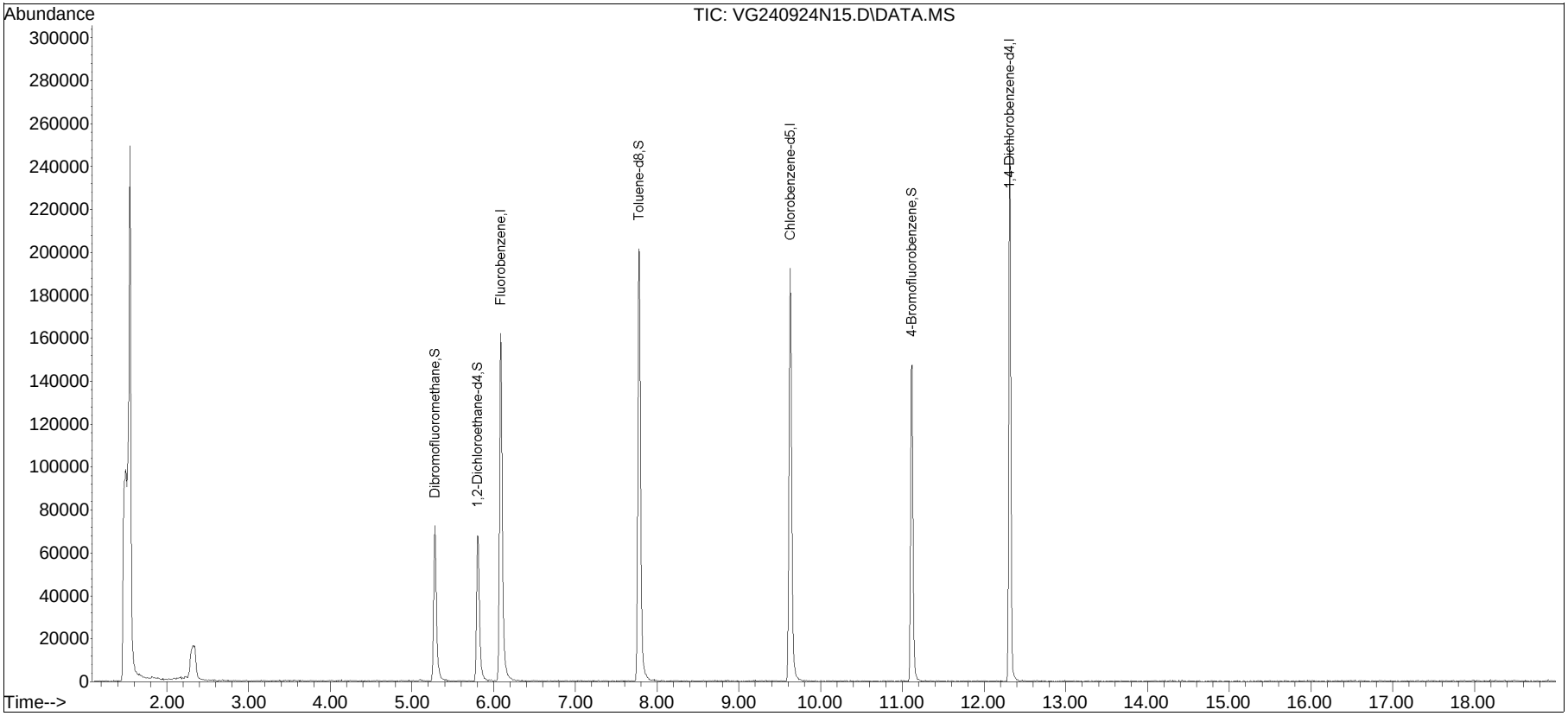
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N15.D
Acq On : 25 Sep 2024 12:50 am
Operator : GONZO:MJV
Sample : L2453720-08,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 25 10:35:15 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•



Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N15.D	Operator	: GONZO:MJV
Date Inj'd	: 9/25/2024 12:50 am	Instrument	: Gonzo
Sample	: L2453720-08,31,10,10,,A	Quant Date	: 9/25/2024 7:05 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N16.D
Acq On : 25 Sep 2024 1:14 am
Operator : GONZO:MJV
Sample : L2453720-09,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 25 11:10:53 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	178426	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 75.19%			
59) Chlorobenzene-d5	9.629	117	135242	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 72.55%			
79) 1,4-Dichlorobenzene-d4	12.311	152	70887	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 66.08%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	52766	11.322	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.22%			
43) 1,2-Dichloroethane-d4	5.805	65	61272	12.376	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 123.76%			
60) Toluene-d8	7.779	98	169476	9.982	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.82%			
83) 4-Bromofluorobenzene	11.109	95	53956	9.113	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.13%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D. d		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	1.854	62	83	N.D.		
5) Bromomethane	2.348	94	75	N.D.		
6) Chloroethane	0.000		0	N.D. d		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	3.017	96	13985	4.143	ug/L	87
11) Carbon disulfide	3.047	76	225	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.579	84	70	N.D.		
17) Acetone	3.640	43	83	Below Cal #		47
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.761	43	76	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	4.316	63	24476	3.660	ug/L	96
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	5.114	83	1505	0.220	ug/L #	89
34) Carbon tetrachloride	0.000		0	N.D. d		

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N16.D
Acq On : 25 Sep 2024 1:14 am
Operator : GONZO:MJV
Sample : L2453720-09,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 25 11:10:53 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.296	97	40290	6.381	ug/L		91
39) 2-Butanone	0.000		0	N.D.	d		
41) Benzene	0.000		0	N.D.			
44) 1,2-Dichloroethane	0.000		0	N.D.	d		
47) Methyl cyclohexane	0.000		0	N.D.			
48) Trichloroethene	0.000		0	N.D.	d		
51) 1,2-Dichloropropane	0.000		0	N.D.			
54) Bromodichloromethane	0.000		0	N.D.			
58) cis-1,3-Dichloropropene	0.000		0	N.D.			
61) Toluene	0.000		0	N.D.			
62) 4-Methyl-2-pentanone	0.000		0	N.D.			
63) Tetrachloroethene	8.302	166	1285	0.311	ug/L	#	78
65) trans-1,3-Dichloropropene	0.000		0	N.D.			
68) 1,1,2-Trichloroethane	8.517	83	76	N.D.			
69) Chlorodibromomethane	0.000		0	N.D.			
71) 1,2-Dibromoethane	0.000		0	N.D.			
72) 2-Hexanone	9.061	43	89	N.D.			
73) Chlorobenzene	0.000		0	N.D.			
74) Ethylbenzene	9.637	91	93	N.D.			
76) p/m Xylene	0.000		0	N.D.			
77) o Xylene	0.000		0	N.D.			
78) Styrene	0.000		0	N.D.			
80) Bromoform	0.000		0	N.D.			
82) Isopropylbenzene	0.000		0	N.D.			
87) 1,1,2,2-Tetrachloroethane	11.118	83	85	N.D.			
100) 1,3-Dichlorobenzene	0.000		0	N.D.			
101) 1,4-Dichlorobenzene	0.000		0	N.D.			
104) 1,2-Dichlorobenzene	0.000		0	N.D.			
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.			
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.			

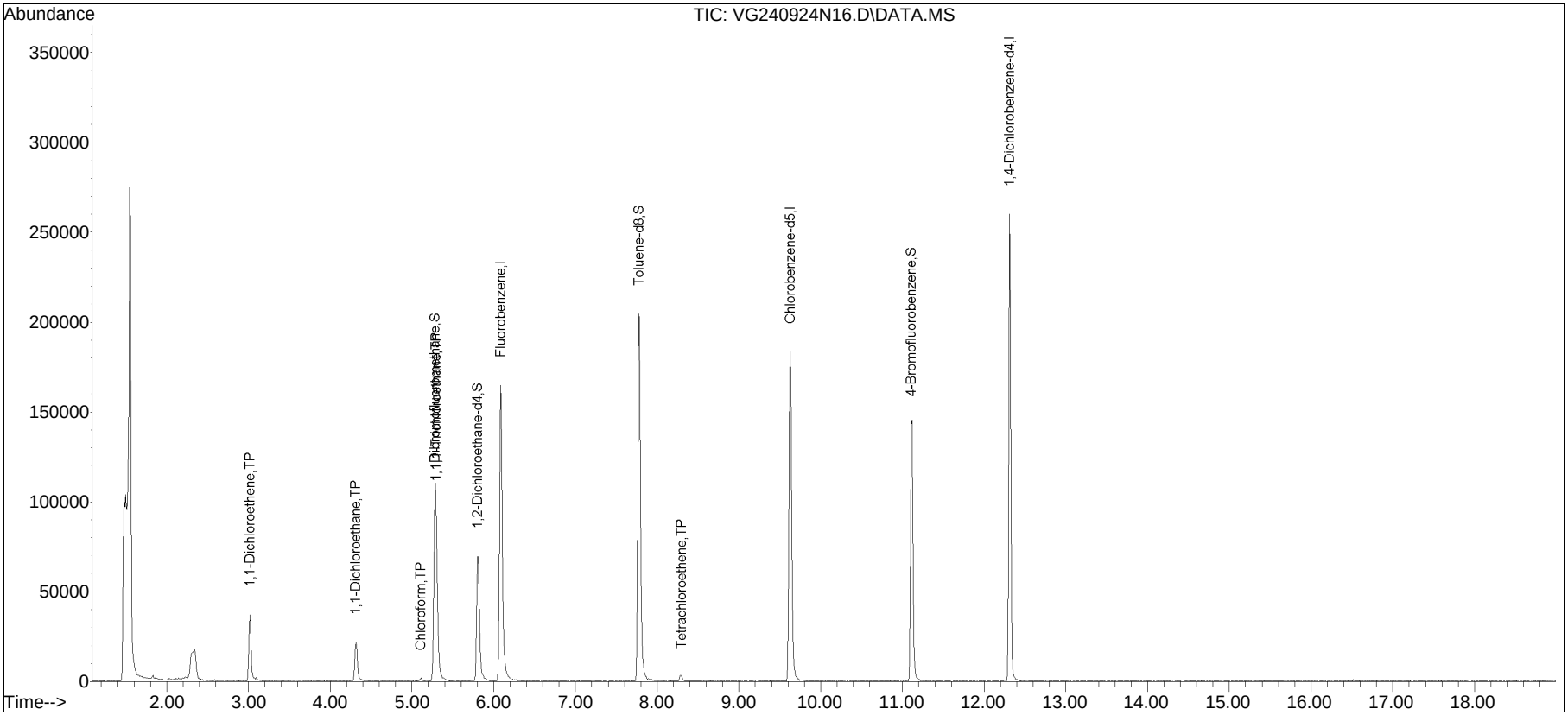
(#) = qualifier out of range (m) = manual integration (+) = signals summed

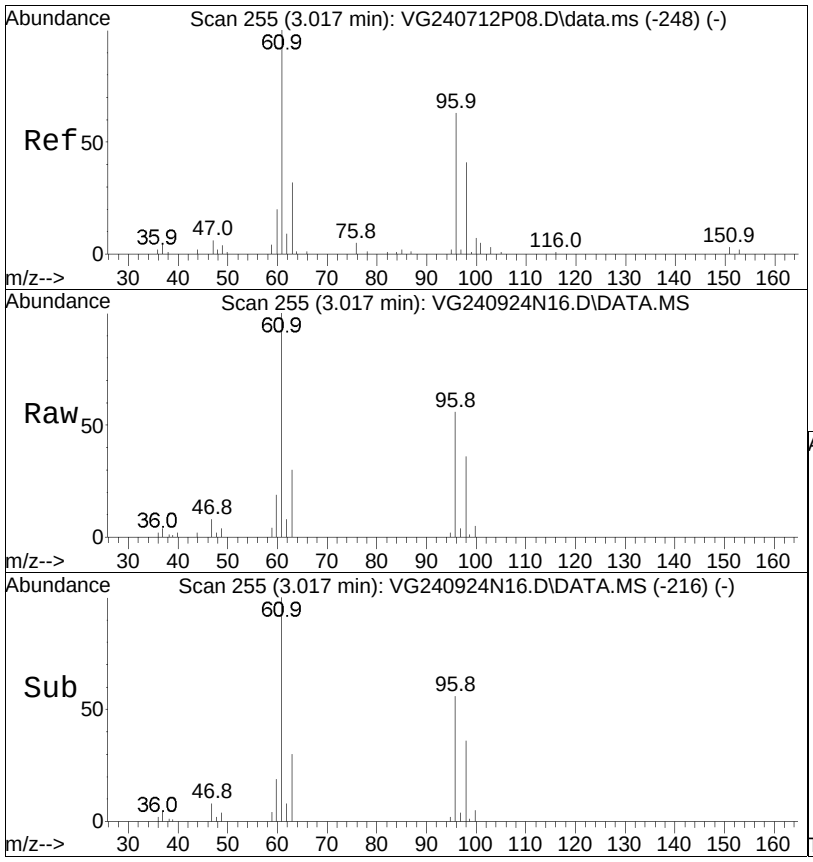
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N16.D
Acq On : 25 Sep 2024 1:14 am
Operator : GONZO:MJV
Sample : L2453720-09,31,10,10,,A
Misc : WG1976114,ICAL21287
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 25 11:10:53 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

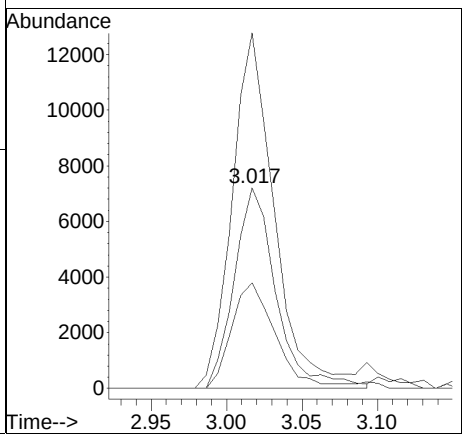


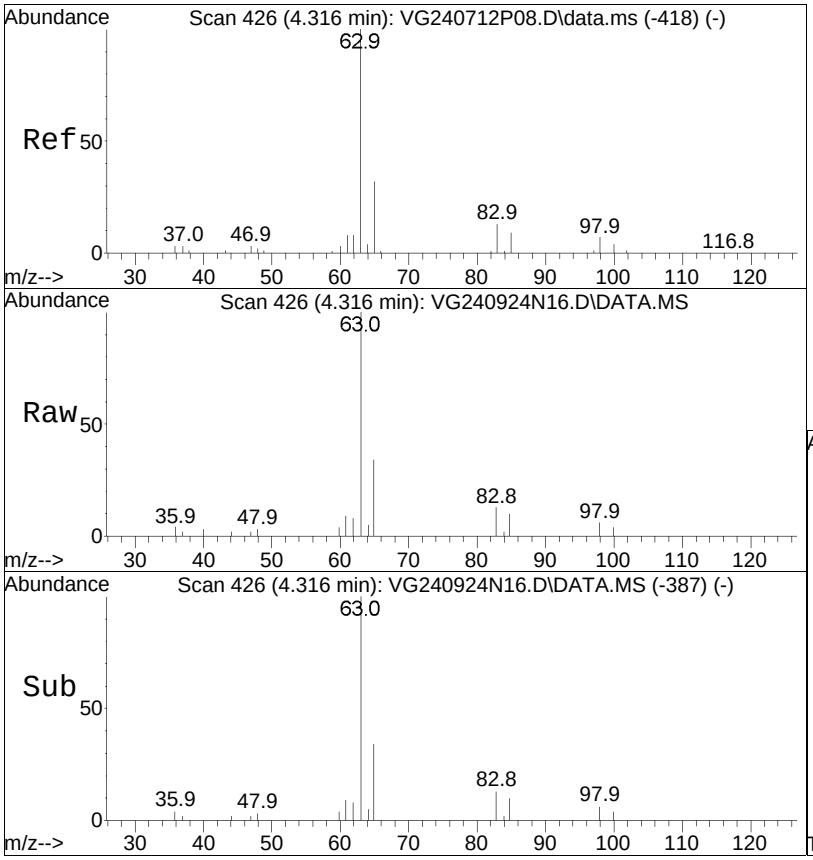


#10
1,1-Dichloroethene
Concen: 4.14 ug/L
RT: 3.017 min Scan# 255
Delta R.T. -0.000 min
Lab File: VG240924N16.D
Acq: 25 Sep 2024 1:14 am

Tgt Ion: 96 Resp: 13985

Ion	Ratio	Lower	Upper
96	100		
61	174.9	124.2	186.4
63	54.9	40.0	60.0

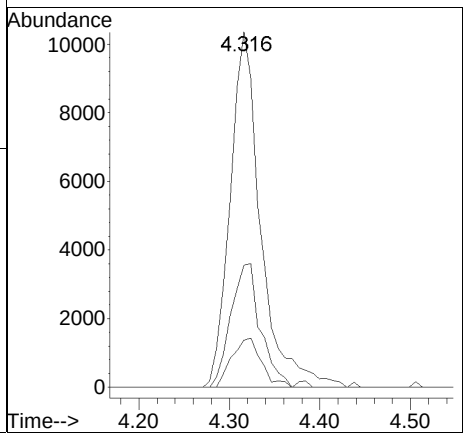


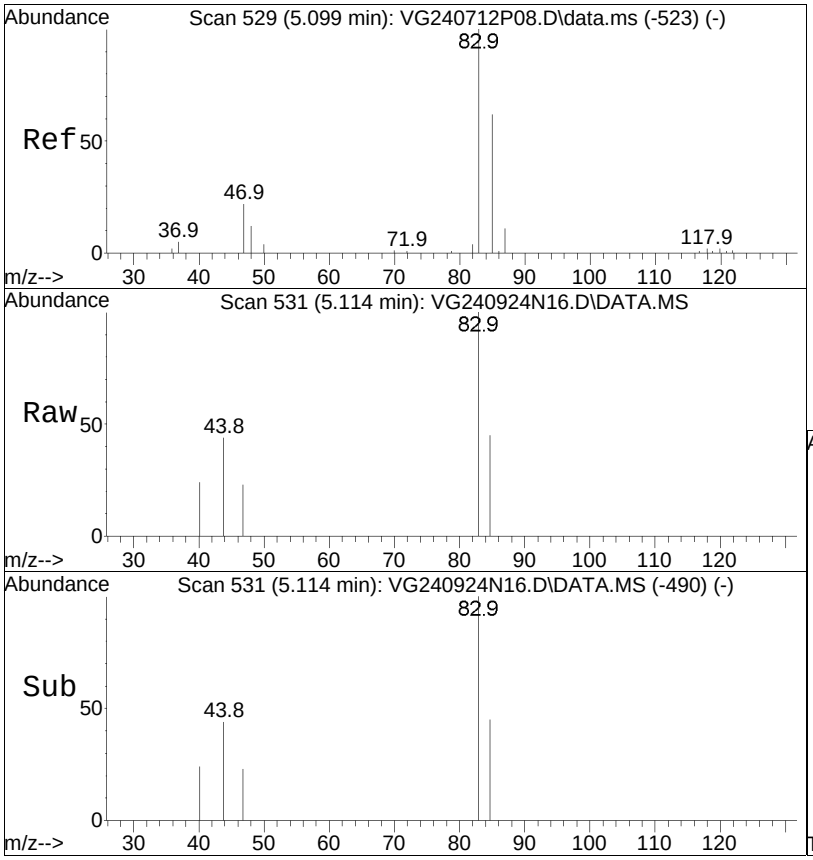


#23
1,1-Dichloroethane
Concen: 3.66 ug/L
RT: 4.316 min Scan# 426
Delta R.T. -0.000 min
Lab File: VG240924N16.D
Acq: 25 Sep 2024 1:14 am

Tgt Ion: 63 Resp: 24476

Ion	Ratio	Lower	Upper
63	100		
65	33.6	10.4	50.4
83	13.4	0.0	33.2

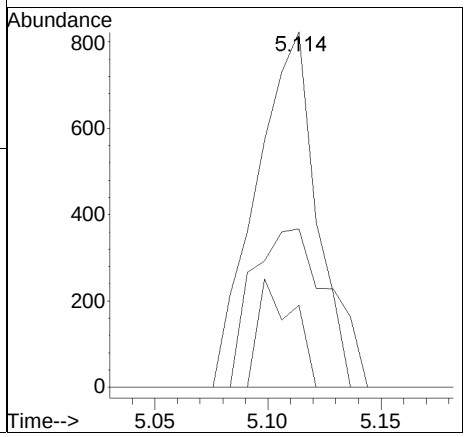


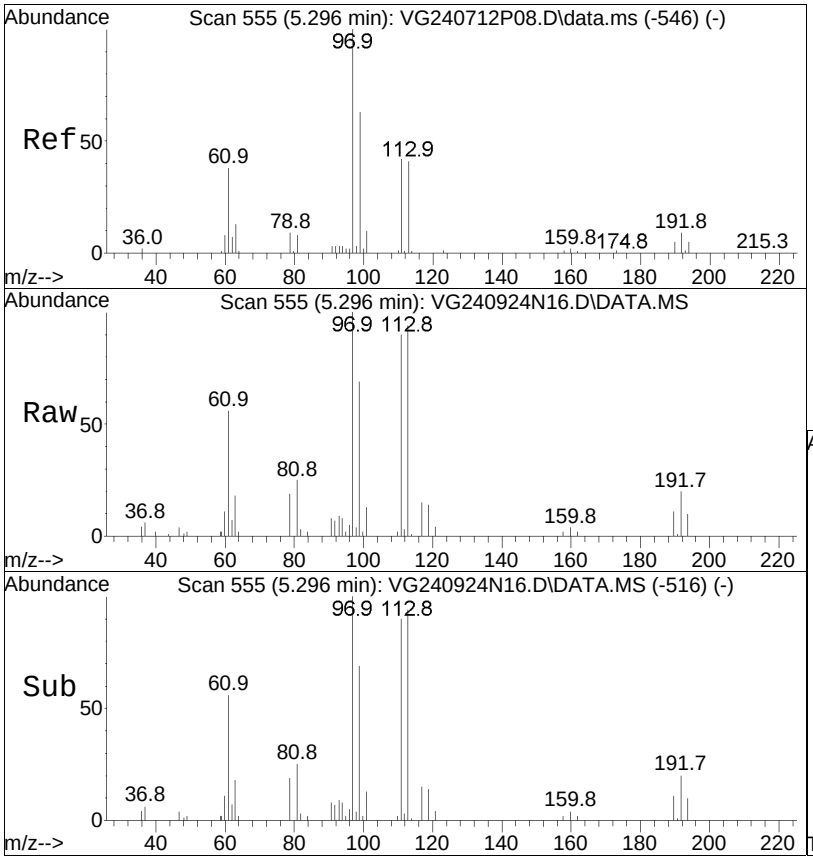


#32
Chloroform
Concen: 0.22 ug/L
RT: 5.114 min Scan# 531
Delta R.T. 0.015 min
Lab File: VG240924N16.D
Acq: 25 Sep 2024 1:14 am

Tgt Ion: 83 Resp: 1505

Ion	Ratio	Lower	Upper
83	100		
85	57.7	41.4	86.0
47	18.1	15.1	31.3
48	0.0	7.7	16.1#

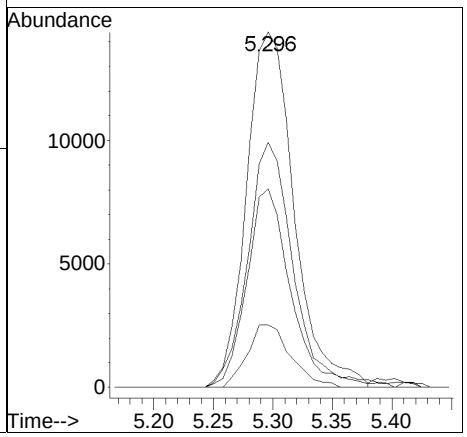


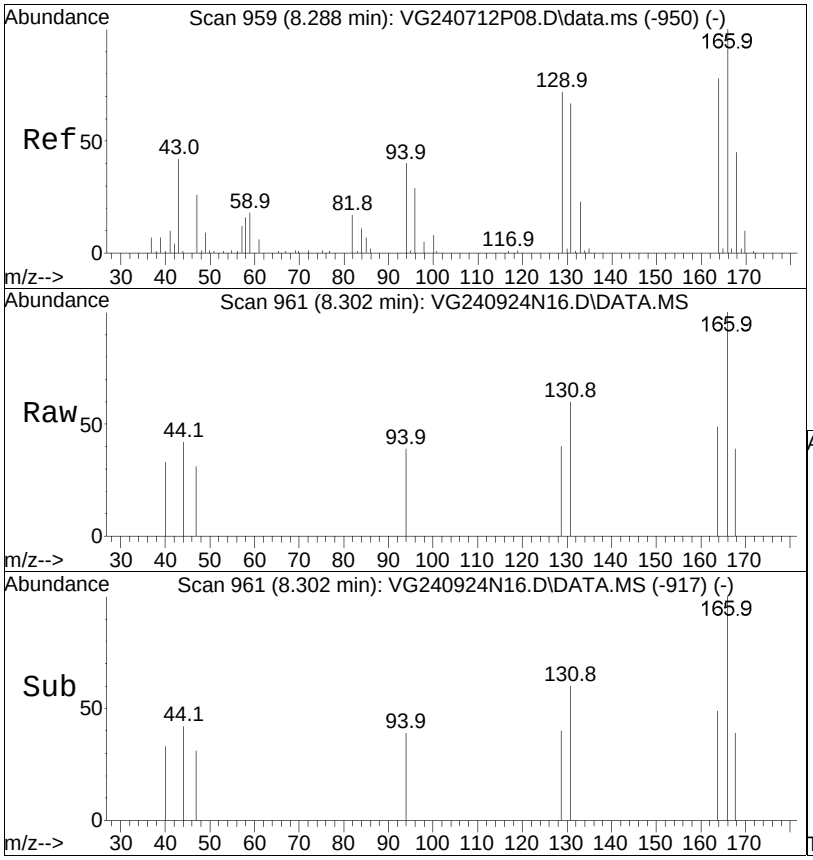


#37
1,1,1-Trichloroethane
Concen: 6.38 ug/L
RT: 5.296 min Scan# 555
Delta R.T. -0.000 min
Lab File: VG240924N16.D
Acq: 25 Sep 2024 1:14 am

Tgt Ion: 97 Resp: 40290

Ion	Ratio	Lower	Upper
97	100		
99	65.7	41.3	85.7
61	51.9	26.0	54.0
63	16.0	8.6	18.0

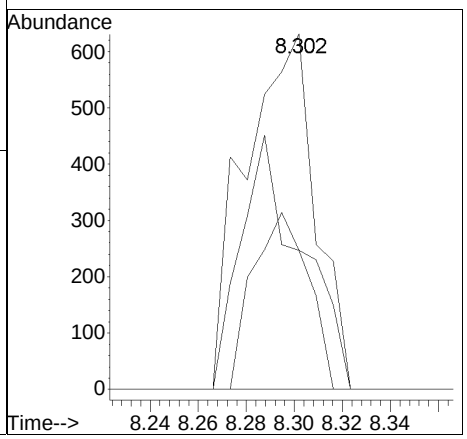




#63
Tetrachloroethene
Concen: 0.31 ug/L
RT: 8.302 min Scan# 961
Delta R.T. 0.014 min
Lab File: VG240924N16.D
Acq: 25 Sep 2024 1:14 am

Tgt Ion:166 Resp: 1285

Ion	Ratio	Lower	Upper
166	100		
168	39.3	27.3	67.3
94	61.2	20.5	60.5#



Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N16.D	Operator	: GONZO:MJV
Date Inj'd	: 9/25/2024 1:14 am	Instrument	: Gonzo
Sample	: L2453720-09,31,10,10,,A	Quant Date	: 9/25/2024 7:05 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: GONZO**	**Ical Ref**	**: ICAL21287**
Calibration dates	**: 07/12/24 21:20 07/13/24 00:56**		

Calibration Files
L11 =VG240712P03.D L1 =VG240712P06.D L2 =VG240712P07.D L3 =VG240712P08.D L4 =VG240712P09.D
L6 =VG240712P10.D L8 =VG240712P11.D L10 =VG240712P12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.203	0.284	0.294	0.290	0.281	0.234	0.273	0.265	12.90
3)	TP	Chloromethane		0.237	0.243	0.227	0.229	0.227	0.190	0.236	0.227	7.62
4)	TP	Vinyl chloride	0.191	0.177	0.268	0.263	0.256	0.251	0.211	0.266	0.235	15.50
5)	TP	Bromomethane		0.089	0.117	0.124	0.130	0.151	0.136		0.125	16.72
6)	TP	Chloroethane		0.165	0.201	0.188	0.190	0.192	0.160	0.163	0.180	9.11
7)	TP	Trichlorofluor		0.246	0.359	0.340	0.382	0.375	0.318	0.394	0.345	14.74
8)	TP	Ethyl ether		0.107	0.125	0.114	0.114	0.117	0.100	0.124	0.115	7.96
10)	TP	1,1-Dichloroet		0.136	0.194	0.200	0.204	0.202	0.172	0.216	0.189	14.31
11)	TP	Carbon disulfide		0.447	0.585	0.573	0.562	0.581	0.503	0.644	0.556	11.38
12)	TP	Freon-113		0.150	0.220	0.215	0.226	0.224	0.188	0.228	0.208	13.82
13)	TP	Iodomethane			0.298	0.350	0.383	0.407	0.333	0.421	0.365	12.81
14)	TP	Acrolein		0.034	0.029	0.034	0.032	0.034	0.029	0.036	0.033	8.15
15)	TP	Methylene chlo		0.251	0.229	0.224	0.219	0.223	0.186	0.233	0.224	8.80
17)	TP	Acetone			0.075	0.048	0.051	0.050	0.042	0.052	*L	0.9901
18)	TP	trans-1,2-Dich		0.159	0.222	0.218	0.215	0.219	0.182	0.233	0.207	12.68
19)	TP	Methyl acetate			0.154	0.111	0.107	0.110	0.092	0.115	0.115	17.92
20)	TP	Methyl tert butyl ether		0.590	0.643	0.631	0.652	0.672	0.559	0.708	0.636	7.82
21)	TP	tert-Butyl alc		0.016	0.017	0.017	0.018	0.019	0.016	0.020	0.018	8.32
22)	TP	Diisopropyl ether		0.541	0.639	0.669	0.682	0.702	0.582	0.734	0.650	10.50
23)	TP	1,1-Dichloroet		0.306	0.400	0.395	0.386	0.395	0.331	0.410	0.375	10.68
24)	TP	Halothane		0.143	0.173	0.180	0.180	0.182	0.153	0.192	0.172	10.04
25)	TP	Acrylonitrile			0.052	0.058	0.059	0.063	0.053	0.067	0.058	10.02
26)	TP	Ethyl tert-but		0.551	0.632	0.643	0.664	0.687	0.570	0.728	0.639	9.79
27)	TP	Vinyl acetate		0.286	0.333	0.370	0.382	0.372	0.337	0.351	0.347	9.47
28)	TP	cis-1,2-Dichlo		0.198	0.259	0.245	0.246	0.248	0.208	0.263	0.238	10.52
29)	TP	2,2-Dichloropr		0.292	0.331	0.321	0.320	0.324	0.267	0.333	0.313	7.81
30)	TP	Bromochloromet		0.110	0.121	0.121	0.119	0.121	0.100	0.123	0.116	7.32
31)	TP	Cyclohexane		0.258	0.366	0.374	0.400	0.384	0.321	0.385	0.356	13.97
32)	TP	Chloroform		0.339	0.386	0.407	0.392	0.405	0.331	0.426	0.384	9.27
33)	TP	Ethyl acetate			0.167	0.162	0.175	0.179	0.150	0.186	0.170	7.75
34)	TP	Carbon tetrachloride	0.226	0.257	0.327	0.345	0.346	0.343	0.287	0.356	0.311	15.54
35)	TP	Tetrahydrofuran			0.061	0.059	0.056	0.055	0.046	0.057	0.056	9.03
36)	S	Dibromofluoromethane	0.266	0.264	0.262	0.260	0.260	0.258	0.259	0.263	0.261	1.02
37)	TP	1,1,1-Trichlor		0.286	0.360	0.374	0.377	0.377	0.314	0.390	0.354	10.89
39)	TP	2-Butanone			0.055	0.072	0.076	0.080	0.067	0.084	0.073	14.30

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: GONZO**	**Ical Ref**	**: ICAL21287**
Calibration dates	**: 07/12/24 21:20 07/13/24 00:56**		

Calibration Files
L11 =VG240712P03.D L1 =VG240712P06.D L2 =VG240712P07.D L3 =VG240712P08.D L4 =VG240712P09.D
L6 =VG240712P10.D L8 =VG240712P11.D L10 =VG240712P12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP	1,1-Dichloropr		0.207	0.287	0.297	0.312	0.305	0.256	0.317	0.283	13.83
41) TP	Benzene	0.745	0.717	0.890	0.923	0.917	0.917	0.768	0.976	0.857	11.42
42) TP	Tertiary-Amyl Methyl Ether		0.544	0.559	0.586	0.605	0.621	0.519	0.662	0.585	8.39
43) S	1,2-Dichloroethane-d4	0.288	0.279	0.281	0.289	0.268	0.272	0.264	0.278	0.277	3.23
44) TP	1,2-Dichloroet		0.270	0.289	0.274	0.278	0.279	0.231	0.290	0.273	7.30
47) TP	Methyl cyclohe		0.234	0.330	0.364	0.384	0.364	0.301	0.353	0.333	15.41
48) TP	Trichloroethene	0.246	0.210	0.248	0.249	0.253	0.250	0.207	0.270	0.242	9.05
50) TP	Dibromomethane		0.135	0.140	0.139	0.136	0.137	0.114	0.144	0.135	7.28
51) TP	1,2-Dichloropr		0.171	0.219	0.220	0.219	0.221	0.183	0.231	0.209	10.76
53) TP	2-Chloroethyl		0.109	0.117	0.122	0.135	0.140	0.117	0.146	0.126	10.96
54) TP	Bromodichlorom		0.278	0.312	0.313	0.314	0.321	0.264	0.334	0.305	8.10
57) TP	1,4-Dioxane		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	3.92
58) TP	cis-1,3-Dichlo		0.308	0.338	0.350	0.350	0.359	0.301	0.383	0.341	8.39
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.258	1.266	1.270	1.267	1.248	1.246	1.258	1.232	1.255	1.03
61) TP	Toluene		0.628	0.724	0.733	0.716	0.720	0.606	0.738	0.695	7.82
62) TP	4-Methyl-2-pen		0.061	0.077	0.079	0.081	0.083	0.070	0.086	0.077	11.14
63) TP	Tetrachloroethene		0.238	0.323	0.326	0.324	0.321	0.274	0.329	0.305	11.51
65) TP	trans-1,3-Dich		0.347	0.369	0.394	0.389	0.403	0.341	0.421	0.380	7.79
67) TP	Ethyl methacry		0.299	0.305	0.320	0.331	0.340	0.287	0.358	0.320	7.77
68) TP	1,1,2-Trichlor		0.191	0.188	0.193	0.193	0.198	0.166	0.207	0.191#	6.61
69) TP	Chlorodibromom		0.263	0.303	0.312	0.311	0.320	0.270	0.331	0.302	8.47
70) TP	1,3-Dichloropr		0.367	0.389	0.397	0.386	0.392	0.327	0.403	0.380	6.83
71) TP	1,2-Dibromoethane		0.241	0.246	0.245	0.242	0.250	0.211	0.257	0.242	6.11
72) TP	2-Hexanone		0.159	0.134	0.135	0.148	0.145	0.123	0.151	0.142	8.54
73) TP	Chlorobenzene		0.704	0.802	0.813	0.790	0.801	0.673	0.839	0.775	7.92
74) TP	Ethylbenzene		1.116	1.365	1.404	1.372	1.389	1.178	1.465	1.327	9.70
75) TP	1,1,1,2-Tetrac		0.230	0.294	0.301	0.303	0.310	0.258	0.321	0.288	11.16
76) TP	p/m Xylene		0.438	0.518	0.557	0.544	0.554	0.468	0.593	0.525	10.39
77) TP	o Xylene		0.426	0.524	0.538	0.525	0.530	0.446	0.567	0.508	10.15
78) TP	Styrene		0.686	0.836	0.902	0.891	0.920	0.779	1.014	0.861	12.32
79) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80) TP	Bromoform		0.330	0.332	0.345	0.368	0.372	0.325	0.408	0.354	8.43
82) TP	Isopropylbenzene		1.696	2.246	2.377	2.403	2.343	2.056	2.540	2.237	12.60
83) S	4-Bromofluorobenzene	0.840	0.858	0.860	0.809	0.839	0.814	0.843	0.820	0.835	2.31
84) TP	Bromobenzene		0.578	0.641	0.639	0.638	0.629	0.541	0.664	0.619	6.94

Initial Calibration Summary
Form 6
Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: GONZO**	**Ical Ref**	**: ICAL21287**
Calibration dates	**: 07/12/24 21:20 07/13/24 00:56**		

Calibration Files
L11 =VG240712P03.D L1 =VG240712P06.D L2 =VG240712P07.D L3 =VG240712P08.D L4 =VG240712P09.D
L6 =VG240712P10.D L8 =VG240712P11.D L10 =VG240712P12.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
85) TP	n-Propylbenzene		2.100	2.663	2.727	2.750	2.704	2.365	2.933	2.606	10.73
86) TP	1,4-Dichlorobu		0.723	0.770	0.719	0.709	0.709	0.618	0.776	0.718	7.24
87) TP	1,1,2,2-Tetrac		0.515	0.495	0.493	0.507	0.497	0.443	0.530	0.497	5.44
88) TP	4-Ethyltoluene		1.755	2.192	2.303	2.301	2.260	1.982	2.456	2.179	10.80
89) TP	2-Chlorotoluene		1.433	1.674	1.648	1.628	1.612	1.414	1.779	1.598	8.22
90) TP	1,3,5-Trimethy		1.589	1.978	2.035	2.015	1.977	1.723	2.181	1.929	10.48
91) TP	1,2,3-Trichlor		0.421	0.448	0.417	0.408	0.407	0.357	0.452	0.416	7.60
92) TP	trans-1,4-Dich		0.098	0.090	0.103	0.115	0.127	0.115	0.149	0.114	17.34
93) TP	4-Chlorotoluene		1.409	1.669	1.738	1.694	1.690	1.470	1.847	1.645	9.31
94) TP	tert-Butylbenzene		1.193	1.577	1.675	1.680	1.631	1.411	1.743	1.559	12.38
97) TP	1,2,4-Trimethy		1.561	1.932	2.022	1.989	1.960	1.715	2.121	1.900	10.20
98) TP	sec-Butylbenzene		1.744	2.245	2.376	2.373	2.310	2.014	2.458	2.217	11.38
99) TP	p-Isopropyltol		1.451	1.944	2.048	2.063	2.024	1.761	2.183	1.925	12.77
100) TP	1,3-Dichlorobe		1.005	1.162	1.195	1.185	1.157	1.006	1.245	1.136	8.27
101) TP	1,4-Dichlorobe		1.065	1.241	1.216	1.201	1.179	1.026	1.266	1.170	7.75
102) TP	p-Diethylbenzene		0.812	1.117	1.183	1.187	1.167	1.010	1.264	1.106	13.67
103) TP	n-Butylbenzene		1.116	1.529	1.621	1.628	1.599	1.409	1.752	1.522	13.62
104) TP	1,2-Dichlorobe		0.974	1.109	1.132	1.129	1.108	0.955	1.181	1.084	7.87
105) TP	1,2,4,5-Tetram		1.330	1.611	1.676	1.726	1.759	1.528	1.955	1.655	11.84
106) TP	1,2-Dibromo-3-		0.092	0.087	0.087	0.096	0.095	0.085	0.105	0.092	7.58
107) TP	1,3,5-Trichlor		0.606	0.711	0.737	0.758	0.750	0.652	0.781	0.713	8.82
108) TP	Hexachlorobuta		0.149	0.190	0.199	0.217	0.218	0.192	0.234	0.200	13.72
109) TP	1,2,4-Trichlor		0.533	0.582	0.619	0.666	0.668	0.576	0.682	0.618	9.16
110) TP	Naphthalene		1.390	1.296	1.316	1.427	1.441	1.281	1.558	1.387	7.11
111) TP	1,2,3-Trichlor		0.469	0.501	0.514	0.539	0.546	0.477	0.550	0.514	6.42

Response Factor Report Gonzo

Method Path : K:\Gonzo\2024\240712PICAL\
Method File : G_240712P_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Jul 15 09:43:32 2024
Response Via : Initial Calibration

Calibration Files
L11 =VG240712P03.D L1 =VG240712P06.D L2 =VG240712P07.D L3 =VG240712P08.D L4 =VG240712P09.D
L6 =VG240712P10.D L8 =VG240712P11.D L10 =VG240712P12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo...		0.203	0.284	0.294	0.290	0.281	0.234	0.273	0.265	12.90
3)	TP	Chloromethane		0.237	0.243	0.227	0.229	0.227	0.190	0.236	0.227	7.62
4)	TP	Vinyl chloride	0.191	0.177	0.268	0.263	0.256	0.251	0.211	0.266	0.235	15.50
5)	TP	Bromomethane		0.089	0.117	0.124	0.130	0.151	0.136		0.125	16.72
6)	TP	Chloroethane		0.165	0.201	0.188	0.190	0.192	0.160	0.163	0.180	9.11
7)	TP	Trichlorofluor...		0.246	0.359	0.340	0.382	0.375	0.318	0.394	0.345	14.74
8)	TP	Ethyl ether		0.107	0.125	0.114	0.114	0.117	0.100	0.124	0.115	7.96
10)	TP	1,1-Dichloroet...		0.136	0.194	0.200	0.204	0.202	0.172	0.216	0.189	14.31
11)	TP	Carbon disulfide		0.447	0.585	0.573	0.562	0.581	0.503	0.644	0.556	11.38
12)	TP	Freon-113		0.150	0.220	0.215	0.226	0.224	0.188	0.228	0.208	13.82
13)	TP	Iodomethane			0.298	0.350	0.383	0.407	0.333	0.421	0.365	12.81
14)	TP	Acrolein		0.034	0.029	0.034	0.032	0.034	0.029	0.036	0.033	8.15
15)	TP	Methylene chlo...		0.251	0.229	0.224	0.219	0.223	0.186	0.233	0.224	8.80
17)	TP	Acetone			0.075	0.048	0.051	0.050	0.042	0.052	*L	0.9901
18)	TP	trans-1,2-Dich...		0.159	0.222	0.218	0.215	0.219	0.182	0.233	0.207	12.68
19)	TP	Methyl acetate			0.154	0.111	0.107	0.110	0.092	0.115	0.115	17.92
20)	TP	Methyl tert-bu...		0.590	0.643	0.631	0.652	0.672	0.559	0.708	0.636	7.82
21)	TP	tert-Butyl alc...		0.016	0.017	0.017	0.018	0.019	0.016	0.020	0.018	8.32
22)	TP	Diisopropyl ether		0.541	0.639	0.669	0.682	0.702	0.582	0.734	0.650	10.50
23)	TP	1,1-Dichloroet...		0.306	0.400	0.395	0.386	0.395	0.331	0.410	0.375	10.68
24)	TP	Halothane		0.143	0.173	0.180	0.180	0.182	0.153	0.192	0.172	10.04
25)	TP	Acrylonitrile			0.052	0.058	0.059	0.063	0.053	0.067	0.058	10.02
26)	TP	Ethyl tert-but...		0.551	0.632	0.643	0.664	0.687	0.570	0.728	0.639	9.79
27)	TP	Vinyl acetate		0.286	0.333	0.370	0.382	0.372	0.337	0.351	0.347	9.47
28)	TP	cis-1,2-Dichlo...		0.198	0.259	0.245	0.246	0.248	0.208	0.263	0.238	10.52
29)	TP	2,2-Dichloropr...		0.292	0.331	0.321	0.320	0.324	0.267	0.333	0.313	7.81
30)	TP	Bromochloromet...		0.110	0.121	0.121	0.119	0.121	0.100	0.123	0.116	7.32
31)	TP	Cyclohexane		0.258	0.366	0.374	0.400	0.384	0.321	0.385	0.356	13.97
32)	TP	Chloroform		0.339	0.386	0.407	0.392	0.405	0.331	0.426	0.384	9.27
33)	TP	Ethyl acetate			0.167	0.162	0.175	0.179	0.150	0.186	0.170	7.75

Method Path : K:\Gonzo\2024\240712PICAL\
Method File : G_240712P_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Jul 15 09:43:32 2024
Response Via : Initial Calibration

Calibration Files
L11 =VG240712P03.D L1 =VG240712P06.D L2 =VG240712P07.D L3 =VG240712P08.D L4 =VG240712P09.D
L6 =VG240712P10.D L8 =VG240712P11.D L10 =VG240712P12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP	Carbon tetrach...	0.226	0.257	0.327	0.345	0.346	0.343	0.287	0.356	0.311	15.54
35)	TP	Tetrahydrofuran		0.061	0.059	0.056	0.055	0.046	0.057	0.056		9.03
36)	S	Dibromofluorom...	0.266	0.264	0.262	0.260	0.260	0.258	0.259	0.263	0.261	1.02
37)	TP	1,1,1-Trichlor...		0.286	0.360	0.374	0.377	0.377	0.314	0.390	0.354	10.89
39)	TP	2-Butanone			0.055	0.072	0.076	0.080	0.067	0.084	0.073	14.30
40)	TP	1,1-Dichloropr...		0.207	0.287	0.297	0.312	0.305	0.256	0.317	0.283	13.83
41)	TP	Benzene	0.745	0.717	0.890	0.923	0.917	0.917	0.768	0.976	0.857	11.42
42)	TP	tert-Amyl meth...		0.544	0.559	0.586	0.605	0.621	0.519	0.662	0.585	8.39
43)	S	1,2-Dichloroet...	0.288	0.279	0.281	0.289	0.268	0.272	0.264	0.278	0.277	3.23
44)	TP	1,2-Dichloroet...		0.270	0.289	0.274	0.278	0.279	0.231	0.290	0.273	7.30
47)	TP	Methyl cyclohe...		0.234	0.330	0.364	0.384	0.364	0.301	0.353	0.333	15.41
48)	TP	Trichloroethene	0.246	0.210	0.248	0.249	0.253	0.250	0.207	0.270	0.242	9.05
50)	TP	Dibromomethane		0.135	0.140	0.139	0.136	0.137	0.114	0.144	0.135	7.28
51)	TP	1,2-Dichloropr...		0.171	0.219	0.220	0.219	0.221	0.183	0.231	0.209	10.76
53)	TP	2-Chloroethyl ...		0.109	0.117	0.122	0.135	0.140	0.117	0.146	0.126	10.96
54)	TP	Bromodichlorom...		0.278	0.312	0.313	0.314	0.321	0.264	0.334	0.305	8.10
57)	TP	1,4-Dioxane		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	3.92
58)	TP	cis-1,3-Dichlo...		0.308	0.338	0.350	0.350	0.359	0.301	0.383	0.341	8.39
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.258	1.266	1.270	1.267	1.248	1.246	1.258	1.232	1.255	1.03
61)	TP	Toluene		0.628	0.724	0.733	0.716	0.720	0.606	0.738	0.695	7.82
62)	TP	4-Methyl-2-pen...		0.061	0.077	0.079	0.081	0.083	0.070	0.086	0.077	11.14
63)	TP	Tetrachloroethene		0.238	0.323	0.326	0.324	0.321	0.274	0.329	0.305	11.51
65)	TP	trans-1,3-Dich...		0.347	0.369	0.394	0.389	0.403	0.341	0.421	0.380	7.79
67)	TP	Ethyl methacry...		0.299	0.305	0.320	0.331	0.340	0.287	0.358	0.320	7.77
68)	TP	1,1,2-Trichlor...		0.191	0.188	0.193	0.193	0.198	0.166	0.207	0.191#	6.61
69)	TP	Chlorodibromom...		0.263	0.303	0.312	0.311	0.320	0.270	0.331	0.302	8.47
70)	TP	1,3-Dichloropr...		0.367	0.389	0.397	0.386	0.392	0.327	0.403	0.380	6.83
71)	TP	1,2-Dibromoethane		0.241	0.246	0.245	0.242	0.250	0.211	0.257	0.242	6.11
72)	TP	2-Hexanone		0.159	0.134	0.135	0.148	0.145	0.123	0.151	0.142	8.54
73)	TP	Chlorobenzene		0.704	0.802	0.813	0.790	0.801	0.673	0.839	0.775	7.92

Method Path : K:\Gonzo\2024\240712PICAL\
Method File : G_240712P_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Jul 15 09:43:32 2024
Response Via : Initial Calibration

Calibration Files
L11 =VG240712P03.D L1 =VG240712P06.D L2 =VG240712P07.D L3 =VG240712P08.D L4 =VG240712P09.D
L6 =VG240712P10.D L8 =VG240712P11.D L10 =VG240712P12.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74)	TP	Ethylbenzene		1.116	1.365	1.404	1.372	1.389	1.178	1.465	1.327	9.70
75)	TP	1,1,1,2-Tetrac...		0.230	0.294	0.301	0.303	0.310	0.258	0.321	0.288	11.16
76)	TP	p/m Xylene		0.438	0.518	0.557	0.544	0.554	0.468	0.593	0.525	10.39
77)	TP	o Xylene		0.426	0.524	0.538	0.525	0.530	0.446	0.567	0.508	10.15
78)	TP	Styrene		0.686	0.836	0.902	0.891	0.920	0.779	1.014	0.861	12.32
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80)	TP	Bromoform		0.330	0.332	0.345	0.368	0.372	0.325	0.408	0.354	8.43
82)	TP	Isopropylbenzene		1.696	2.246	2.377	2.403	2.343	2.056	2.540	2.237	12.60
83)	S	4-Bromofluorob...	0.840	0.858	0.860	0.809	0.839	0.814	0.843	0.820	0.835	2.31
84)	TP	Bromobenzene		0.578	0.641	0.639	0.638	0.629	0.541	0.664	0.619	6.94
85)	TP	n-Propylbenzene		2.100	2.663	2.727	2.750	2.704	2.365	2.933	2.606	10.73
86)	TP	1,4-Dichlorobu...		0.723	0.770	0.719	0.709	0.709	0.618	0.776	0.718	7.24
87)	TP	1,1,2,2-Tetrac...		0.515	0.495	0.493	0.507	0.497	0.443	0.530	0.497	5.44
88)	TP	4-Ethyltoluene		1.755	2.192	2.303	2.301	2.260	1.982	2.456	2.179	10.80
89)	TP	2-Chlorotoluene		1.433	1.674	1.648	1.628	1.612	1.414	1.779	1.598	8.22
90)	TP	1,3,5-Trimethy...		1.589	1.978	2.035	2.015	1.977	1.723	2.181	1.929	10.48
91)	TP	1,2,3-Trichlor...		0.421	0.448	0.417	0.408	0.407	0.357	0.452	0.416	7.60
92)	TP	trans-1,4-Dich...		0.098	0.090	0.103	0.115	0.127	0.115	0.149	0.114	17.34
93)	TP	4-Chlorotoluene		1.409	1.669	1.738	1.694	1.690	1.470	1.847	1.645	9.31
94)	TP	tert-Butylbenzene		1.193	1.577	1.675	1.680	1.631	1.411	1.743	1.559	12.38
97)	TP	1,2,4-Trimethy...		1.561	1.932	2.022	1.989	1.960	1.715	2.121	1.900	10.20
98)	TP	sec-Butylbenzene		1.744	2.245	2.376	2.373	2.310	2.014	2.458	2.217	11.38
99)	TP	p-Isopropyltol...		1.451	1.944	2.048	2.063	2.024	1.761	2.183	1.925	12.77
100)	TP	1,3-Dichlorobe...		1.005	1.162	1.195	1.185	1.157	1.006	1.245	1.136	8.27
101)	TP	1,4-Dichlorobe...		1.065	1.241	1.216	1.201	1.179	1.026	1.266	1.170	7.75
102)	TP	p-Diethylbenzene		0.812	1.117	1.183	1.187	1.167	1.010	1.264	1.106	13.67
103)	TP	n-Butylbenzene		1.116	1.529	1.621	1.628	1.599	1.409	1.752	1.522	13.62
104)	TP	1,2-Dichlorobe...		0.974	1.109	1.132	1.129	1.108	0.955	1.181	1.084	7.87
105)	TP	1,2,4,5-Tetram...		1.330	1.611	1.676	1.726	1.759	1.528	1.955	1.655	11.84
106)	TP	1,2-Dibromo-3-...		0.092	0.087	0.087	0.096	0.095	0.085	0.105	0.092	7.58
107)	TP	1,3,5-Trichlor...		0.606	0.711	0.737	0.758	0.750	0.652	0.781	0.713	8.82

Method Path : K:\Gonzo\2024\240712PICAL\
Method File : G_240712P_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Jul 15 09:43:32 2024
Response Via : Initial Calibration

Calibration Files
L11 =VG240712P03.D L1 =VG240712P06.D L2 =VG240712P07.D L3 =VG240712P08.D L4 =VG240712P09.D
L6 =VG240712P10.D L8 =VG240712P11.D L10 =VG240712P12.D

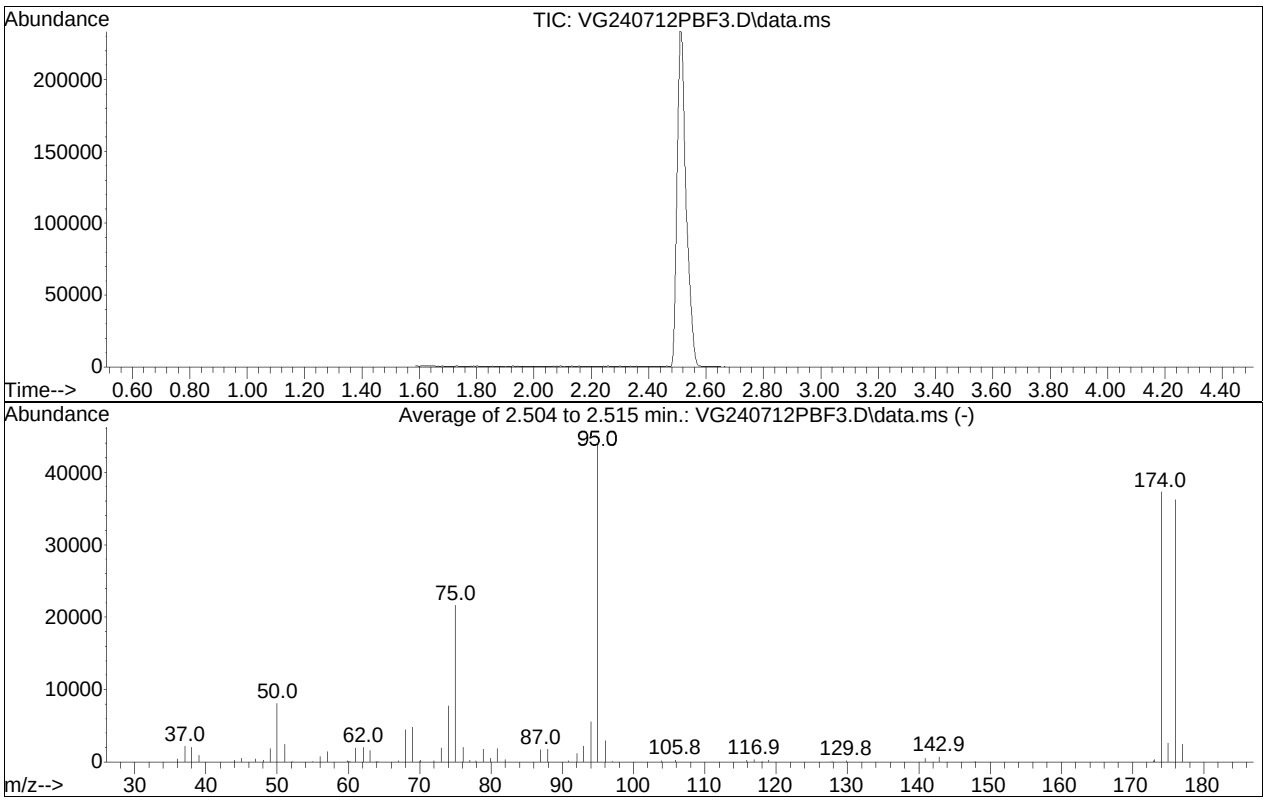
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108)	TP Hexachlorobuta...	0.149	0.190	0.199	0.217	0.218	0.192	0.234	0.200	13.72	
109)	TP 1,2,4-Trichlor...	0.533	0.582	0.619	0.666	0.668	0.576	0.682	0.618	9.16	
110)	TP Naphthalene	1.390	1.296	1.316	1.427	1.441	1.281	1.558	1.387	7.11	
111)	TP 1,2,3-Trichlor...	0.469	0.501	0.514	0.539	0.546	0.477	0.550	0.514	6.42	

(#) = Out of Range

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712PBF3.D
Acq On : 12 Jul 2024 8:14 pm
Operator : GONZO:LAC
Sample : WG1947004-1
Misc : WG1947004
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Jul 15 09:43:32 2024



AutoFind: Scans 176, 177, 178; Background Corrected with Scan 168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	8143	PASS
75	95	30	60	49.1	21632	PASS
95	95	100	100	100.0	44088	PASS
96	95	5	9	6.7	2957	PASS
173	174	0.00	2	1.0	377	PASS
174	95	50	100	84.6	37320	PASS
175	174	5	9	7.0	2610	PASS
176	174	95	101	97.1	36251	PASS
177	176	5	9	6.8	2465	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P03.D
Acq On : 12 Jul 2024 9:20 pm
Operator : GONZO:PID
Sample : I8260STD0.19PPB
Misc : WG1947004,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 15 09:37:31 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	310780	10.000	ug/L	0.00
Standard Area 1 = 354306			Recovery =	87.72%		
59) Chlorobenzene-d5	9.629	117	249910	10.000	ug/L	0.00
Standard Area 1 = 276985			Recovery =	90.23%		
79) 1,4-Dichlorobenzene-d4	12.311	152	134693	10.000	ug/L	0.00
Standard Area 1 = 160037			Recovery =	84.16%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	82545	10.169	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.69%		
43) 1,2-Dichloroethane-d4	5.805	65	89609	10.392	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.92%		
60) Toluene-d8	7.779	98	314288	10.018	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.18%		
83) 4-Bromofluorobenzene	11.110	95	113149	10.058	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.58%		
Target Compounds						Qvalue
4) Vinyl chloride	1.946	62	1126M6	0.154	ug/L	
34) Carbon tetrachloride	5.228	117	1334	0.138	ug/L #	80
41) Benzene	5.668	78	4399	0.165	ug/L #	87
48) Trichloroethene	6.268	95	1454	0.194	ug/L	90

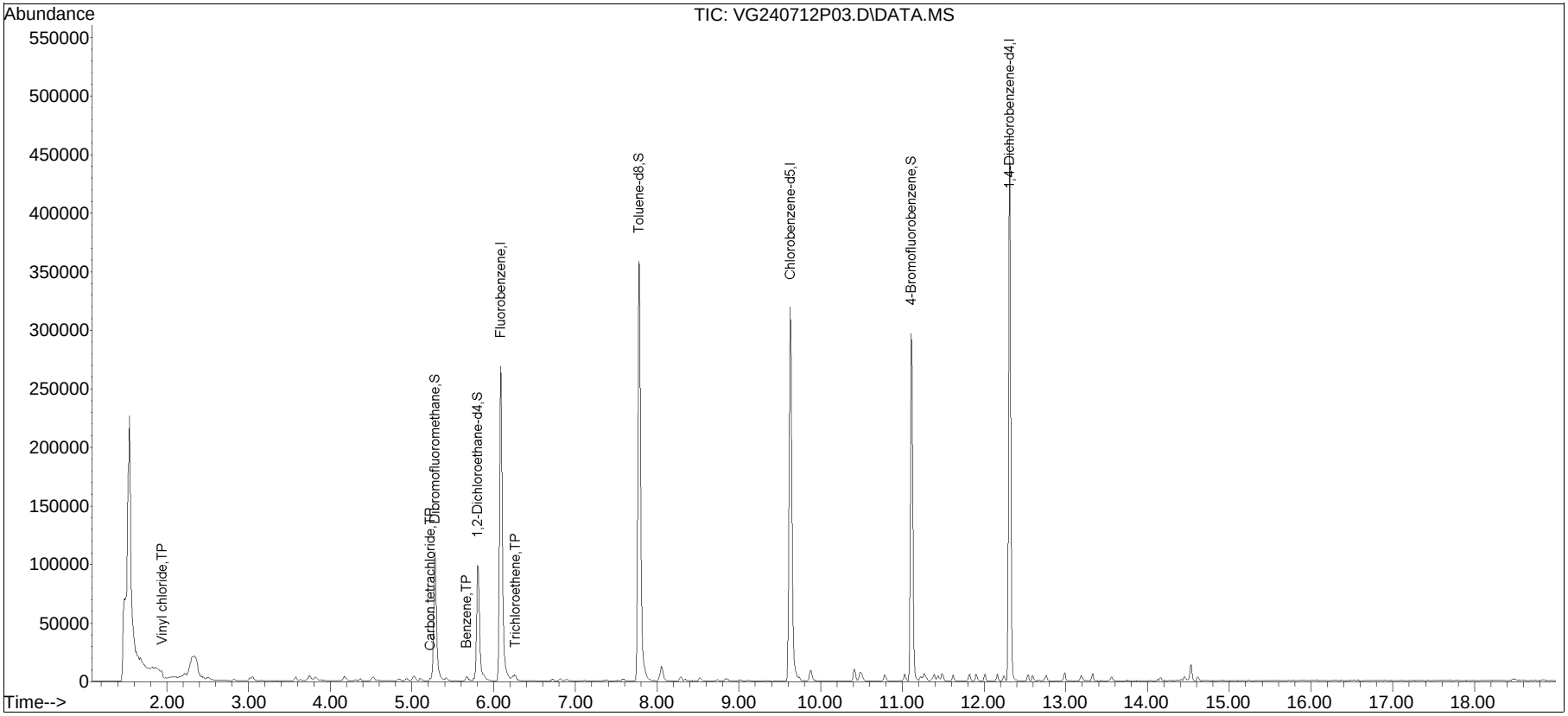
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P03.D
Acq On : 12 Jul 2024 9:20 pm
Operator : GONZO:PID
Sample : I8260STD0.19PPB
Misc : WG1947004,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 15 09:37:31 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

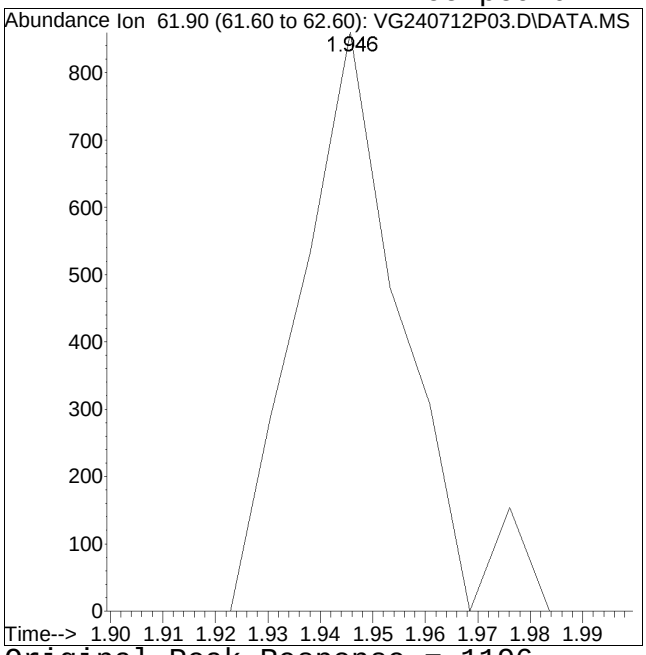
Sub List : 8260-L11 - Level 11 for 8260-LRR product8.D•



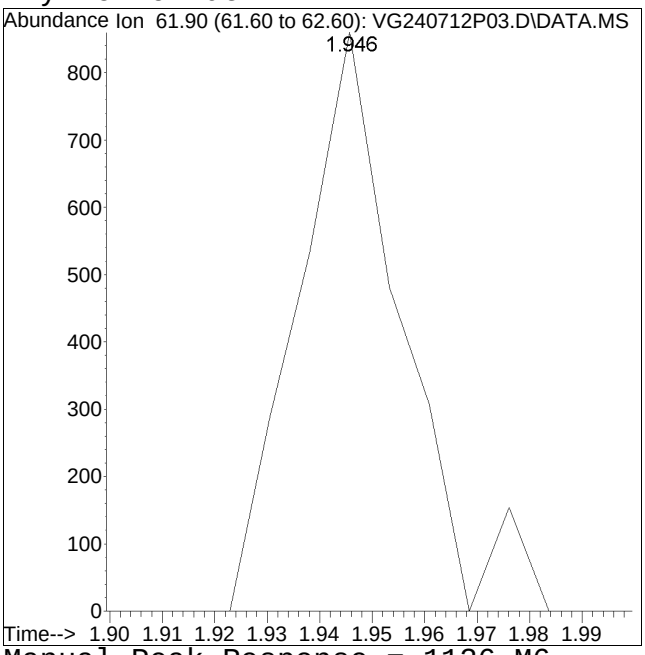
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P03.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 9:20 pm Instrument : Gonzo
Sample : I8260STD0.19PPB Quant Date : 7/15/2024 9:37 am

Compound #4: Vinyl chloride



Original Peak Response = 1196



Manual Peak Response = 1126 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P06.D
Acq On : 12 Jul 2024 10:32 pm
Operator : GONZO:PID
Sample : I8260STD0.5PPB
Misc : WG1947004,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 09:37:40 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	335173	10.000	ug/L	0.00
Standard Area 1 = 354306			Recovery = 94.60%			
59) Chlorobenzene-d5	9.629	117	262430	10.000	ug/L	0.00
Standard Area 1 = 276985			Recovery = 94.75%			
79) 1,4-Dichlorobenzene-d4	12.311	152	142379	10.000	ug/L	0.00
Standard Area 1 = 160037			Recovery = 88.97%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	88340	10.091	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.91%			
43) 1,2-Dichloroethane-d4	5.805	65	93465	10.050	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.50%			
60) Toluene-d8	7.779	98	332128	10.081	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.81%			
83) 4-Bromofluorobenzene	11.110	95	122190	10.275	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.75%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	3395	0.382	ug/L	94
3) Chloromethane	1.893	50	3979M6	0.523	ug/L	
4) Vinyl chloride	1.946	62	2973	0.377	ug/L	94
5) Bromomethane	2.257	94	1496M3	0.336	ug/L	
6) Chloroethane	2.371	64	2770	0.459	ug/L	89
7) Trichlorofluoromethane	2.516	101	4120	0.356	ug/L	96
8) Ethyl ether	2.819	74	1796	0.468	ug/L #	73
10) 1,1-Dichloroethene	3.017	96	2275	0.359	ug/L	97
11) Carbon disulfide	3.047	76	7497	0.402	ug/L	98
12) Freon-113	3.047	101	2519	0.362	ug/L #	70
13) Iodomethane	3.154	142	3499	0.305	ug/L	96
14) Acrolein	3.366	56	569M6	0.522	ug/L	
15) Methylene chloride	3.572	84	4200	0.560	ug/L	91
17) Acetone	3.640	43	2464M6	1.106	ug/L	
18) trans-1,2-Dichloroethene	3.739	96	2668	0.385	ug/L	90
19) Methyl acetate	3.754	43	5881M6	1.180	ug/L	
20) Methyl tert-butyl ether	3.822	73	9884	0.463	ug/L #	81
21) tert-Butyl alcohol	3.913	59	1371	2.317	ug/L #	71
22) Diisopropyl ether	4.179	45	9064	0.416	ug/L #	87
23) 1,1-Dichloroethane	4.316	63	5121	0.408	ug/L	95
24) Halothane	4.354	117	2400	0.417	ug/L	81

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P06.D
Acq On : 12 Jul 2024 10:32 pm
Operator : GONZO:PID
Sample : I8260STD0.5PPB
Misc : WG1947004,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 09:37:40 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	0.000		0	N.D.	d		
26) Ethyl tert-butyl ether	4.521	59	9240	0.431	ug/L	#	73
27) Vinyl acetate	4.567	43	4789M3	0.411	ug/L		
28) cis-1,2-Dichloroethene	4.840	96	3318	0.416	ug/L		93
29) 2,2-Dichloropropane	4.924	77	4893	0.467	ug/L		97
30) Bromochloromethane	5.030	128	1836	0.471	ug/L	#	81
31) Cyclohexane	5.023	56	4324	0.363	ug/L		87
32) Chloroform	5.099	83	5683	0.442	ug/L		96
33) Ethyl acetate	0.000		0	N.D.	d		
34) Carbon tetrachloride	5.235	117	4313	0.414	ug/L		98
35) Tetrahydrofuran	5.243	42	1660	0.801	ug/L	#	54
37) 1,1,1-Trichloroethane	5.288	97	4794	0.404	ug/L		96
39) 2-Butanone	0.000		0	N.D.	d		
40) 1,1-Dichloropropene	5.425	75	3465	0.365	ug/L		97
41) Benzene	5.668	78	12021	0.419	ug/L		98
42) tert-Amyl methyl ether	5.775	73	9109	0.465	ug/L		92
44) 1,2-Dichloroethane	5.881	62	4529	0.495	ug/L		96
47) Methyl cyclohexane	6.253	83	3917	0.351	ug/L	#	79
48) Trichloroethene	6.276	95	3511	0.434	ug/L		85
50) Dibromomethane	6.724	93	2256	0.498	ug/L		96
51) 1,2-Dichloropropane	6.816	63	2871	0.410	ug/L		96
53) 2-Chloroethyl vinyl ether	7.514	63	1826	0.431	ug/L	#	84
54) Bromodichloromethane	6.884	83	4664	0.456	ug/L	#	93
57) 1,4-Dioxane	7.106	88	6862	96.286	ug/L		89
58) cis-1,3-Dichloropropene	7.586	75	5155	0.451	ug/L		96
61) Toluene	7.844	92	8239	0.452	ug/L		97
62) 4-Methyl-2-pentanone	8.288	58	798	0.397	ug/L	#	53
63) Tetrachloroethene	8.288	166	3122	0.390	ug/L		97
65) trans-1,3-Dichloropropene	8.345	75	4551	0.456	ug/L		97
67) Ethyl methacrylate	8.524	69	3918	0.467	ug/L		90
68) 1,1,2-Trichloroethane	8.517	83	2500	0.500	ug/L		98
69) Chlorodibromomethane	8.732	129	3450	0.436	ug/L		93
70) 1,3-Dichloropropane	8.839	76	4812	0.482	ug/L		95
71) 1,2-Dibromoethane	9.018	107	3162	0.498	ug/L		87
72) 2-Hexanone	9.298	43	2082	0.558	ug/L	#	63
73) Chlorobenzene	9.645	112	9242	0.455	ug/L	#	79
74) Ethylbenzene	9.686	91	14639	0.420	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.728	131	3019	0.399	ug/L	#	63
76) p/m Xylene	9.876	106	11498	0.835	ug/L		96
77) o Xylene	10.410	106	11190	0.839	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P06.D
Acq On : 12 Jul 2024 10:32 pm
Operator : GONZO:PID
Sample : I8260STD0.5PPB
Misc : WG1947004,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 09:37:40 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.484	104	18007	0.797	ug/L		94
80) Bromoform	10.509	173	2349	0.466	ug/L		98
82) Isopropylbenzene	10.789	105	12071	0.379	ug/L		92
84) Bromobenzene	11.225	156	4114	0.467	ug/L		99
85) n-Propylbenzene	11.266	91	14951	0.403	ug/L		99
86) 1,4-Dichlorobutane	11.291	55	5148	0.504	ug/L		92
87) 1,1,2,2-Tetrachloroethane	11.365	83	3665	0.518	ug/L		97
88) 4-Ethyltoluene	11.389	105	12497	0.403	ug/L		98
89) 2-Chlorotoluene	11.439	91	10202M4	0.448	ug/L		
90) 1,3,5-Trimethylbenzene	11.480	105	11312	0.412	ug/L		97
91) 1,2,3-Trichloropropane	11.496	75	2998	0.506	ug/L		97
92) trans-1,4-Dichloro-2-b...	11.554	53	701M6	0.432	ug/L		
93) 4-Chlorotoluene	11.620	91	10033M6	0.428	ug/L		
94) tert-Butylbenzene	11.825	119	8494	0.383	ug/L		95
97) 1,2,4-Trimethylbenzene	11.899	105	11113	0.411	ug/L		98
98) sec-Butylbenzene	12.014	105	12415	0.393	ug/L		98
99) p-Isopropyltoluene	12.163	119	10327	0.377	ug/L		97
100) 1,3-Dichlorobenzene	12.245	146	7154	0.442	ug/L		98
101) 1,4-Dichlorobenzene	12.327	146	7579	0.455	ug/L	#	82
102) p-Diethylbenzene	12.533	119	5781	0.367	ug/L		95
103) n-Butylbenzene	12.590	91	7943	0.367	ug/L		96
104) 1,2-Dichlorobenzene	12.747	146	6935	0.449	ug/L		95
105) 1,2,4,5-Tetramethylben...	13.331	119	9465	0.402	ug/L		94
106) 1,2-Dibromo-3-chloropr...	13.536	155	655	0.499	ug/L		87
107) 1,3,5-Trichlorobenzene	13.561	180	4315	0.425	ug/L		96
108) Hexachlorobutadiene	14.120	225	1063	0.373	ug/L		93
109) 1,2,4-Trichlorobenzene	14.153	180	3793	0.431	ug/L	#	96
110) Naphthalene	14.449	128	9895	0.501	ug/L		100
111) 1,2,3-Trichlorobenzene	14.614	180	3339	0.456	ug/L		94

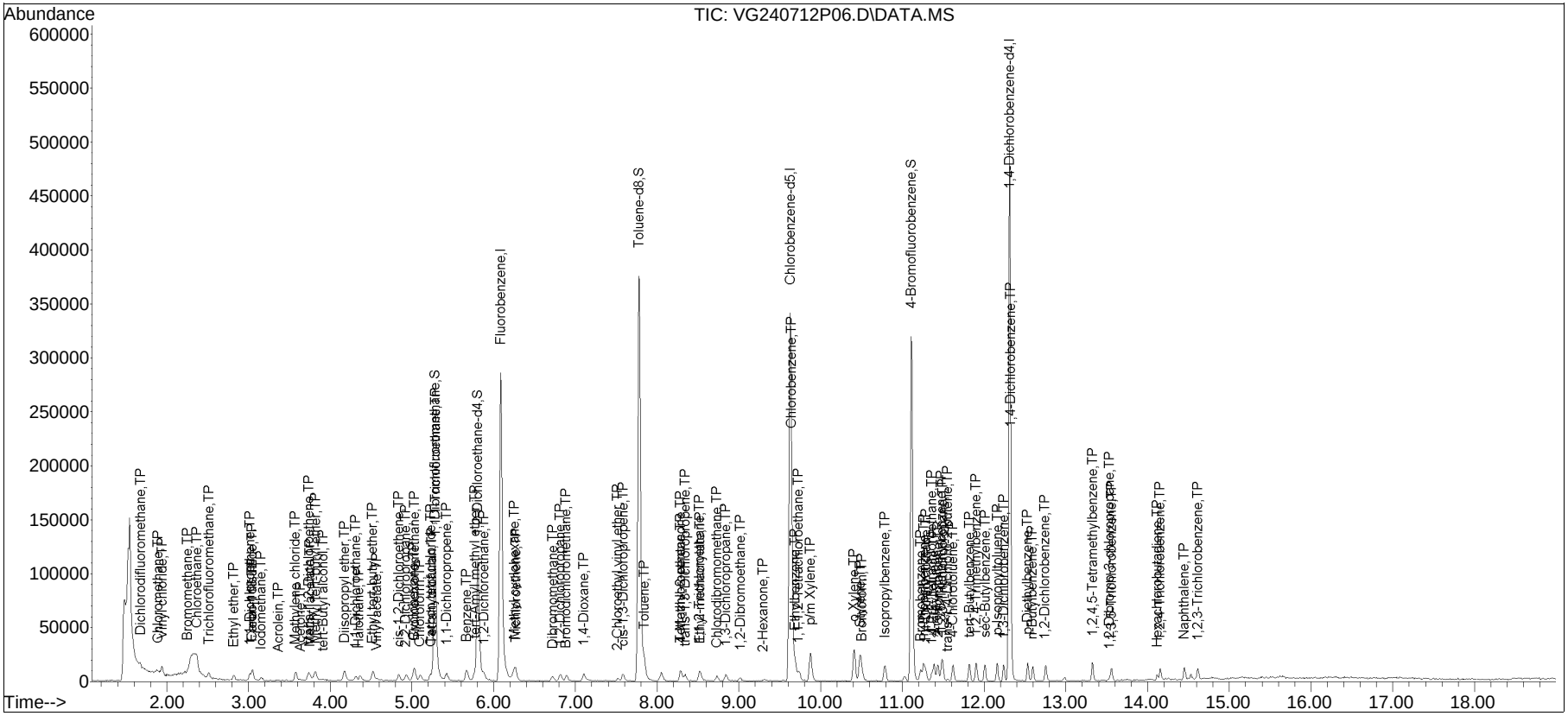
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P06.D
Acq On : 12 Jul 2024 10:32 pm
Operator : GONZO:PID
Sample : I8260STD0.5PPB
Misc : WG1947004,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 09:37:40 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

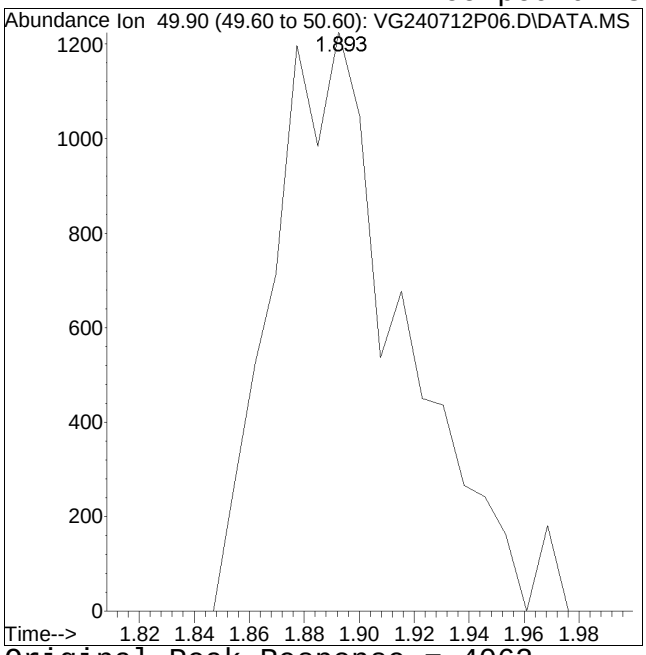
Sub List : 8260-Curve - Megamix plus DioxVG240712P08.D•



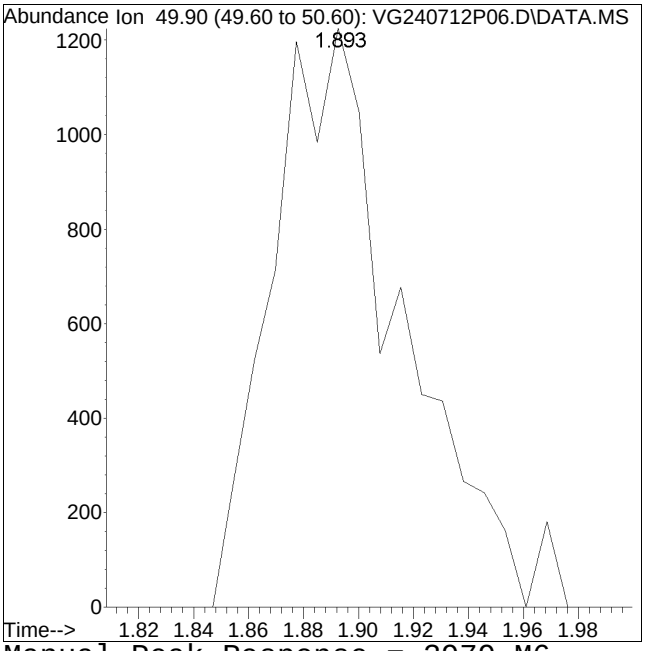
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P06.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:32 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 7/15/2024 9:37 am

Compound #3: Chloromethane



Original Peak Response = 4062



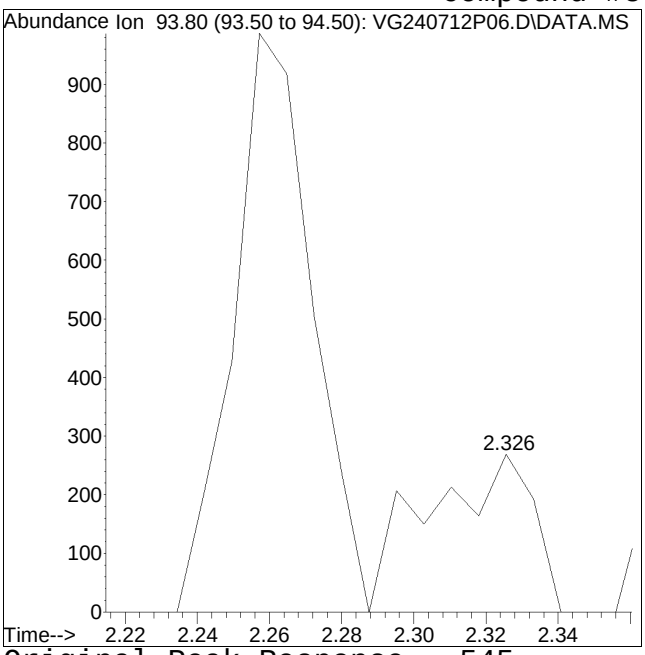
Manual Peak Response = 3979 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

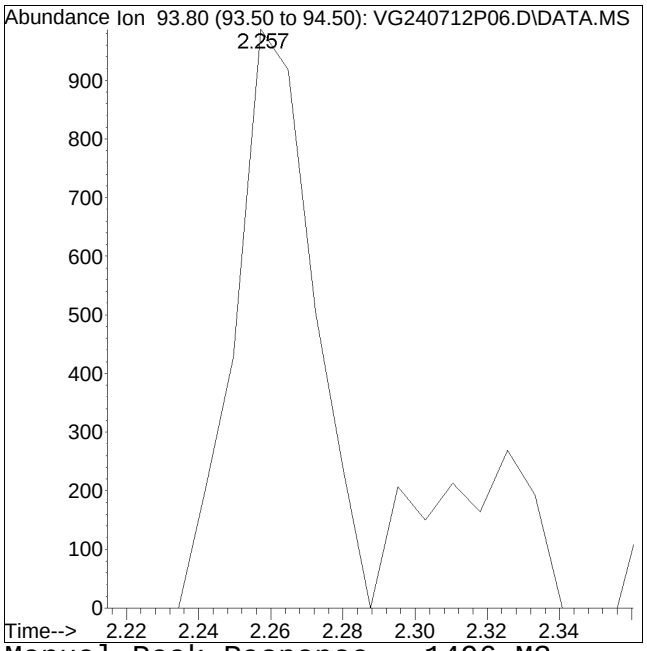
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P06.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:32 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 7/15/2024 9:37 am

Compound #5: Bromomethane



Original Peak Response = 545



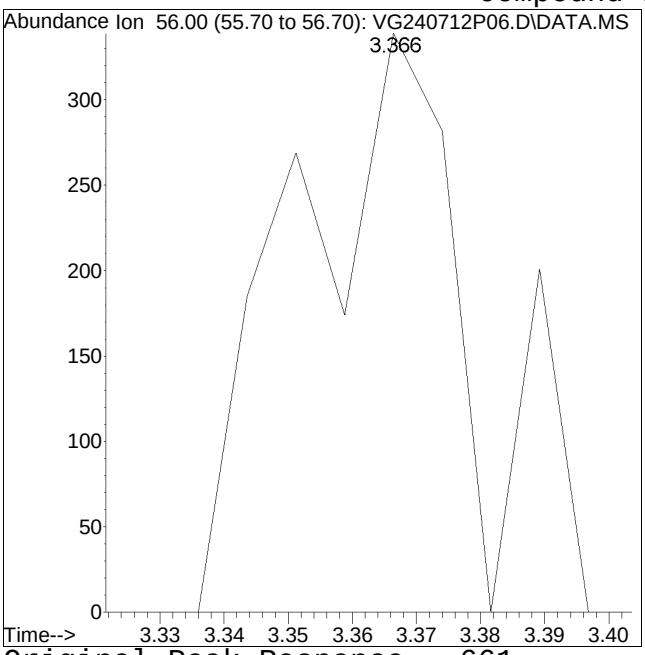
Manual Peak Response = 1496 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

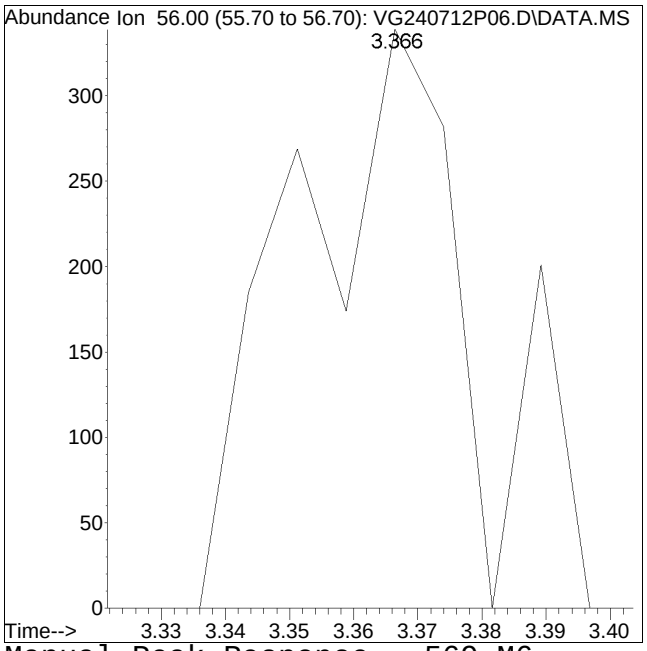
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P06.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:32 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 7/15/2024 9:37 am

Compound #14: Acrolein



Original Peak Response = 661



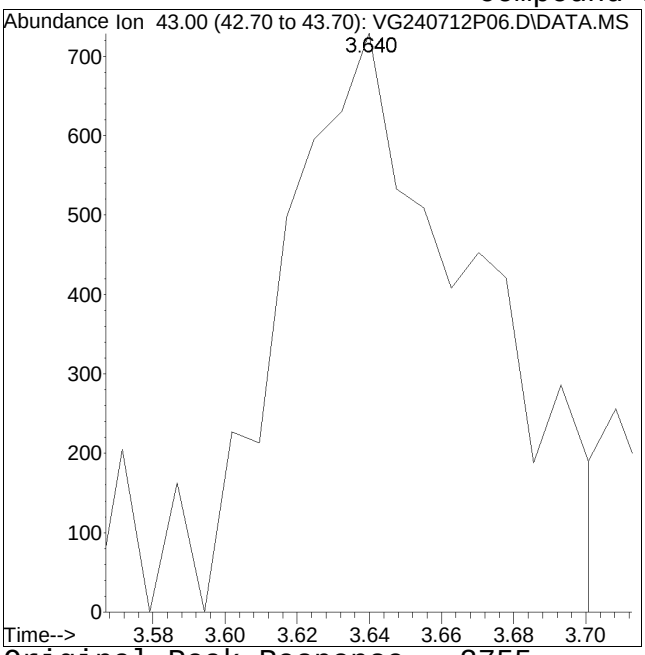
Manual Peak Response = 569 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

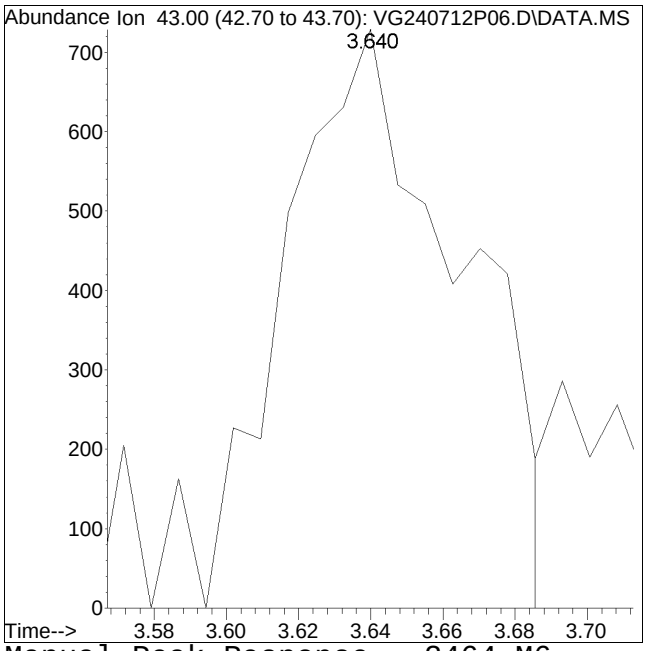
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P06.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:32 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 7/15/2024 9:37 am

Compound #17: Acetone



Original Peak Response = 2755



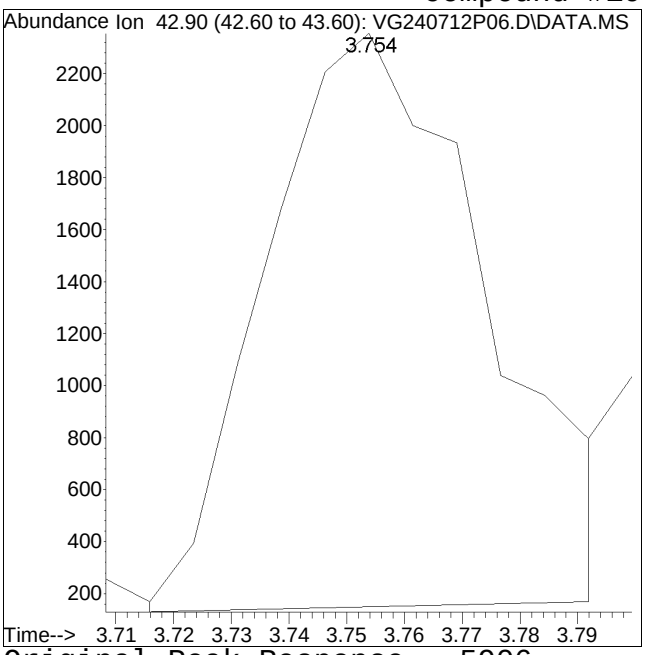
Manual Peak Response = 2464 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

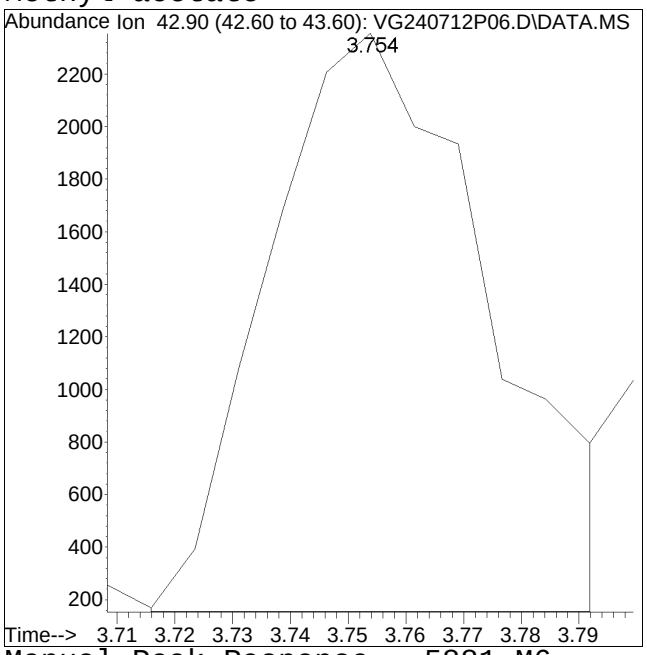
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P06.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:32 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 7/15/2024 9:37 am

Compound #19: Methyl acetate



Original Peak Response = 5906



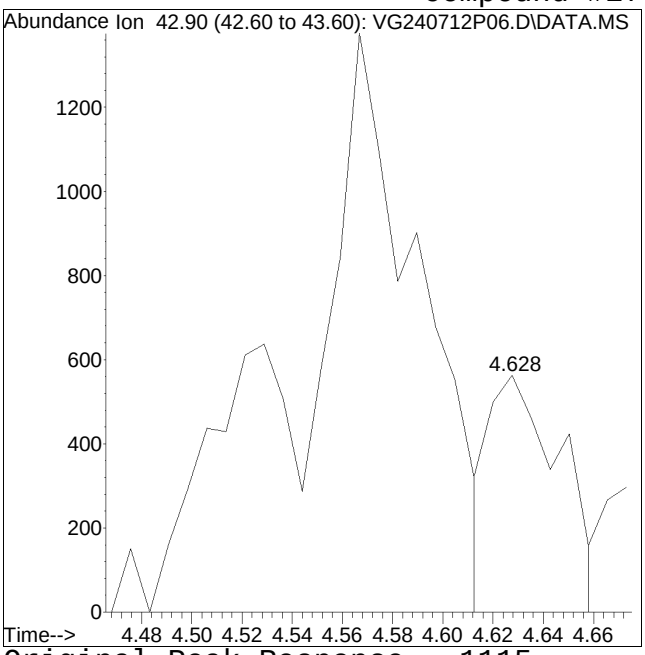
Manual Peak Response = 5881 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

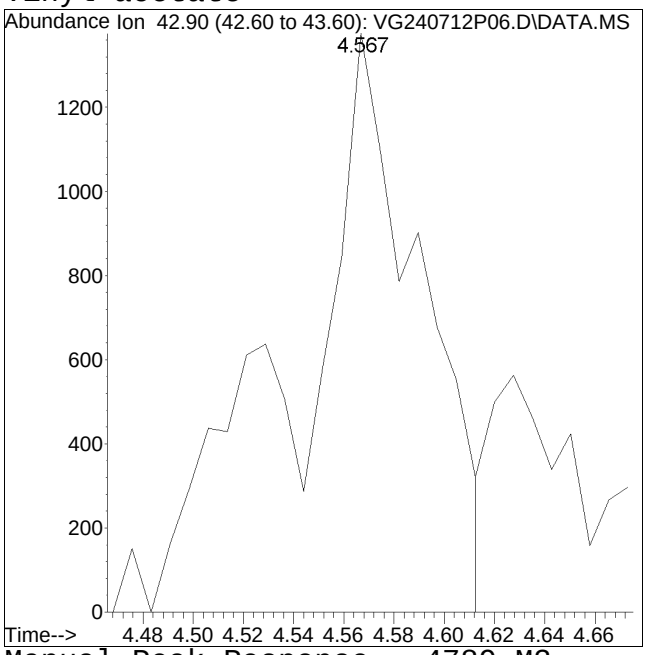
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P06.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:32 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 7/15/2024 9:37 am

Compound #27: Vinyl acetate



Original Peak Response = 1115



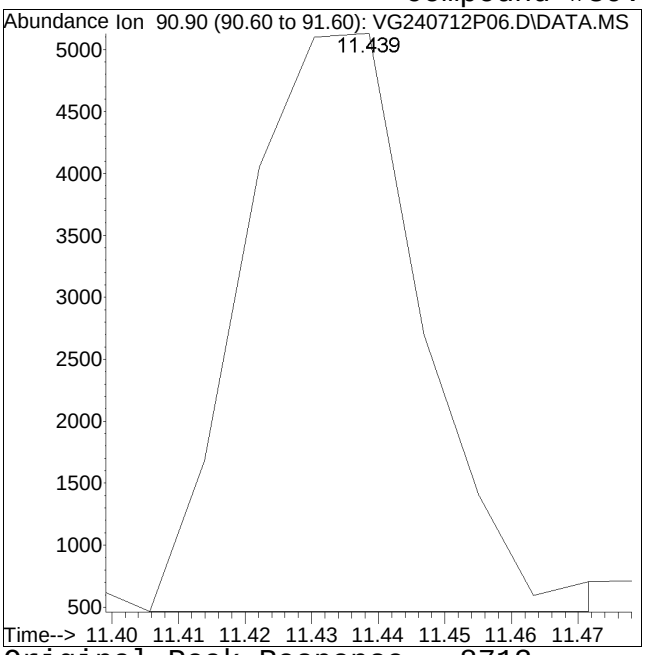
Manual Peak Response = 4789 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

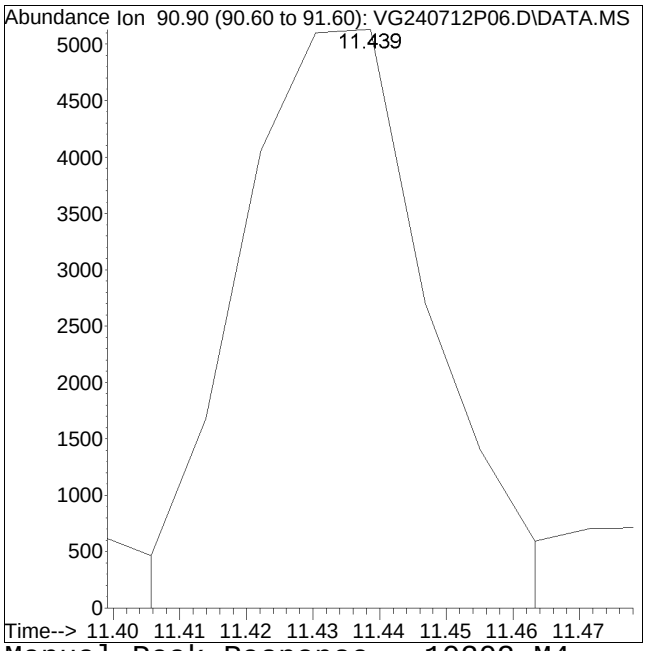
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P06.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:32 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 7/15/2024 9:37 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 8713



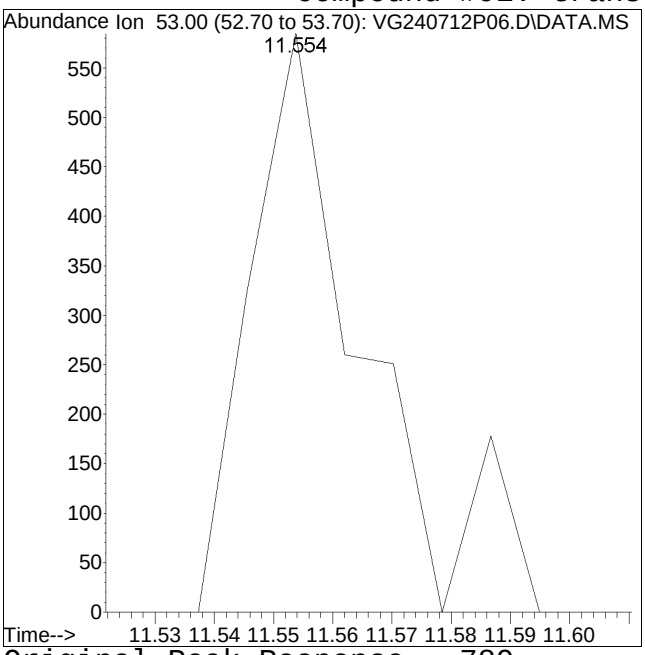
Manual Peak Response = 10202 M4

M4 = Poor automated baseline construction.

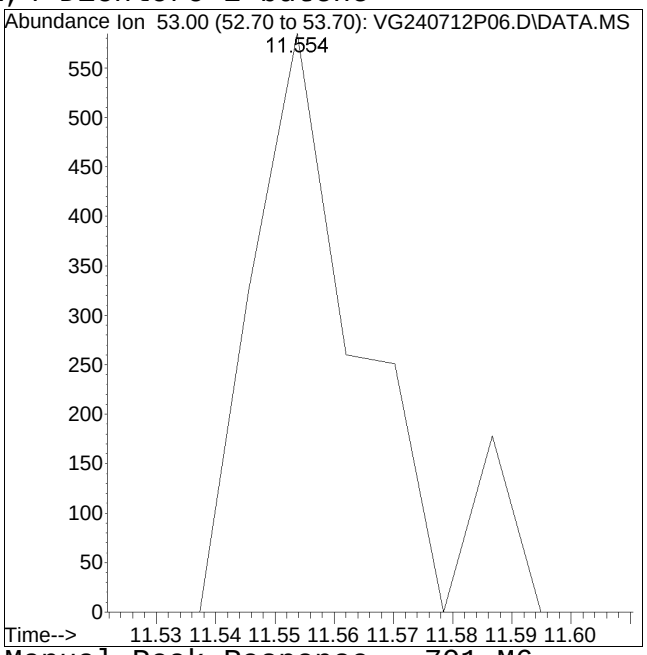
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P06.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:32 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 7/15/2024 9:37 am

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 789



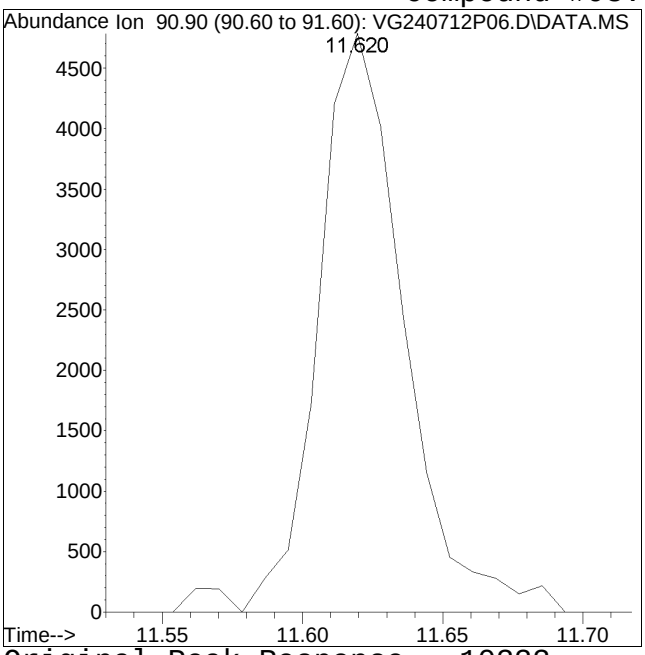
Manual Peak Response = 701 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

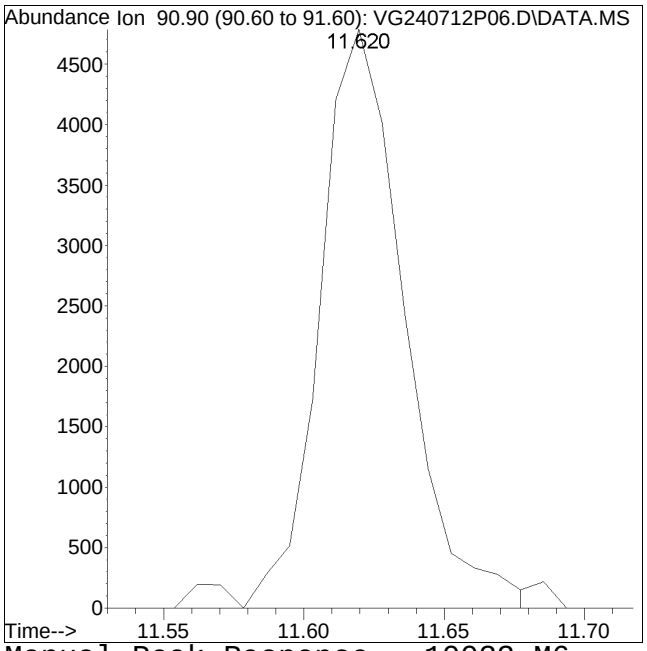
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P06.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:32 pm Instrument : Gonzo
Sample : I8260STD0.5PPB Quant Date : 7/15/2024 9:37 am

Compound #93: 4-Chlorotoluene



Original Peak Response = 10333



Manual Peak Response = 10033 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P07.D
Acq On : 12 Jul 2024 10:56 pm
Operator : GONZO:PID
Sample : I8260STD2PPB
Misc : WG1947004,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 09:37:49 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	339095	10.000	ug/L	0.00
Standard Area 1 = 354306			Recovery =	95.71%		
59) Chlorobenzene-d5	9.629	117	267471	10.000	ug/L	0.00
Standard Area 1 = 276985			Recovery =	96.57%		
79) 1,4-Dichlorobenzene-d4	12.311	152	146727	10.000	ug/L	0.00
Standard Area 1 = 160037			Recovery =	91.68%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	88717	10.017	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.17%		
43) 1,2-Dichloroethane-d4	5.805	65	95269	10.126	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.26%		
60) Toluene-d8	7.779	98	339712	10.117	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.17%		
83) 4-Bromofluorobenzene	11.110	95	126143	10.293	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.93%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	19249	2.138	ug/L	99
3) Chloromethane	1.885	50	16465	2.138	ug/L	99
4) Vinyl chloride	1.946	62	18154	2.275	ug/L	97
5) Bromomethane	2.265	94	7941	1.763	ug/L	96
6) Chloroethane	2.371	64	13605	2.231	ug/L	95
7) Trichlorofluoromethane	2.516	101	24371	2.084	ug/L	98
8) Ethyl ether	2.819	74	8500	2.189	ug/L	95
10) 1,1-Dichloroethene	3.009	96	13159	2.051	ug/L	92
11) Carbon disulfide	3.047	76	39642	2.101	ug/L	98
12) Freon-113	3.055	101	14950	2.124	ug/L	84
13) Iodomethane	3.154	142	20184	1.737	ug/L	97
14) Acrolein	3.351	56	1942	1.760	ug/L #	81
15) Methylene chloride	3.579	84	15558	2.051	ug/L	89
17) Acetone	3.625	43	5068	2.249	ug/L #	84
18) trans-1,2-Dichloroethene	3.724	96	15023	2.141	ug/L	99
19) Methyl acetate	3.746	43	10439	2.070	ug/L #	94
20) Methyl tert-butyl ether	3.815	73	43598	2.021	ug/L	97
21) tert-Butyl alcohol	3.913	59	5817	9.717	ug/L #	74
22) Diisopropyl ether	4.172	45	43322	1.966	ug/L	96
23) 1,1-Dichloroethane	4.316	63	27160	2.137	ug/L	99
24) Halothane	4.362	117	11719	2.011	ug/L	90

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P07.D
Acq On : 12 Jul 2024 10:56 pm
Operator : GONZO:PID
Sample : I8260STD2PPB
Misc : WG1947004,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 09:37:49 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.384	53	3499	1.765	ug/L		95
26) Ethyl tert-butyl ether	4.521	59	42838	1.976	ug/L		94
27) Vinyl acetate	4.559	43	22580	1.917	ug/L		96
28) cis-1,2-Dichloroethene	4.840	96	17545	2.175	ug/L		93
29) 2,2-Dichloropropane	4.931	77	22451	2.119	ug/L		97
30) Bromochloromethane	5.030	128	8234	2.086	ug/L		91
31) Cyclohexane	5.023	56	24829	2.059	ug/L		84
32) Chloroform	5.099	83	26195	2.013	ug/L		93
33) Ethyl acetate	5.220	43	11333	1.967	ug/L	#	93
34) Carbon tetrachloride	5.235	117	22186	2.104	ug/L	#	96
35) Tetrahydrofuran	5.258	42	4122M6	1.966	ug/L		
37) 1,1,1-Trichloroethane	5.296	97	24403	2.034	ug/L		97
39) 2-Butanone	5.418	43	3735	1.519	ug/L		94
40) 1,1-Dichloropropene	5.418	75	19439	2.026	ug/L		99
41) Benzene	5.668	78	60361	2.078	ug/L		97
42) tert-Amyl methyl ether	5.767	73	37905	1.911	ug/L		97
44) 1,2-Dichloroethane	5.881	62	19600	2.117	ug/L		99
47) Methyl cyclohexane	6.246	83	22413	1.985	ug/L		89
48) Trichloroethene	6.269	95	16818	2.053	ug/L		95
50) Dibromomethane	6.717	93	9528	2.079	ug/L		98
51) 1,2-Dichloropropane	6.808	63	14837	2.093	ug/L		98
53) 2-Chloroethyl vinyl ether	7.514	63	7911	1.845	ug/L		95
54) Bromodichloromethane	6.892	83	21170	2.046	ug/L		97
57) 1,4-Dioxane	7.099	88	30548	423.683	ug/L		100
58) cis-1,3-Dichloropropene	7.571	75	22927	1.981	ug/L		95
61) Toluene	7.836	92	38753	2.085	ug/L		96
62) 4-Methyl-2-pentanone	8.273	58	4127	2.014	ug/L		81
63) Tetrachloroethene	8.288	166	17253	2.114	ug/L		96
65) trans-1,3-Dichloropropene	8.338	75	19727	1.938	ug/L		99
67) Ethyl methacrylate	8.517	69	16341	1.910	ug/L		99
68) 1,1,2-Trichloroethane	8.517	83	10049	1.970	ug/L		96
69) Chlorodibromomethane	8.732	129	16191	2.008	ug/L		98
70) 1,3-Dichloropropane	8.839	76	20789	2.045	ug/L		94
71) 1,2-Dibromoethane	9.011	107	13176	2.036	ug/L		94
72) 2-Hexanone	9.305	43	7172	1.887	ug/L		95
73) Chlorobenzene	9.654	112	42909	2.071	ug/L		94
74) Ethylbenzene	9.686	91	73017	2.057	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.736	131	15752	2.043	ug/L		97
76) p/m Xylene	9.867	106	55393	3.947	ug/L		96
77) o Xylene	10.410	106	56091	4.126	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P07.D
Acq On : 12 Jul 2024 10:56 pm
Operator : GONZO:PID
Sample : I8260STD2PPB
Misc : WG1947004,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 09:37:49 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	10.476	104	89487	3.885	ug/L		99
80)	Bromoform	10.509	173	9748	1.875	ug/L		94
82)	Isopropylbenzene	10.781	105	65915	2.008	ug/L		98
84)	Bromobenzene	11.225	156	18817	2.073	ug/L		96
85)	n-Propylbenzene	11.258	91	78139	2.043	ug/L		99
86)	1,4-Dichlorobutane	11.282	55	22587	2.145	ug/L		95
87)	1,1,2,2-Tetrachloroethane	11.356	83	14540	1.993	ug/L		99
88)	4-Ethyltoluene	11.381	105	64338	2.013	ug/L		97
89)	2-Chlorotoluene	11.430	91	49112M1	2.094	ug/L		
90)	1,3,5-Trimethylbenzene	11.480	105	58055	2.052	ug/L		97
91)	1,2,3-Trichloropropane	11.496	75	13152M1	2.156	ug/L		
92)	trans-1,4-Dichloro-2-b...	11.546	53	2644	1.581	ug/L	#	86
93)	4-Chlorotoluene	11.611	91	48983	2.029	ug/L		96
94)	tert-Butylbenzene	11.817	119	46267	2.023	ug/L		94
97)	1,2,4-Trimethylbenzene	11.899	105	56701	2.034	ug/L		100
98)	sec-Butylbenzene	12.006	105	65866	2.025	ug/L		98
99)	p-Isopropyltoluene	12.163	119	57060	2.021	ug/L		96
100)	1,3-Dichlorobenzene	12.237	146	34096	2.045	ug/L		98
101)	1,4-Dichlorobenzene	12.327	146	36405	2.120	ug/L		96
102)	p-Diethylbenzene	12.533	119	32769	2.020	ug/L		99
103)	n-Butylbenzene	12.590	91	44868	2.009	ug/L		99
104)	1,2-Dichlorobenzene	12.755	146	32532	2.046	ug/L		99
105)	1,2,4,5-Tetramethylben...	13.323	119	47276	1.947	ug/L		96
106)	1,2-Dibromo-3-chloropr...	13.528	155	2543	1.879	ug/L		95
107)	1,3,5-Trichlorobenzene	13.553	180	20867	1.993	ug/L		99
108)	Hexachlorobutadiene	14.120	225	5584	1.904	ug/L		96
109)	1,2,4-Trichlorobenzene	14.153	180	17073	1.883	ug/L		98
110)	Naphthalene	14.450	128	38026	1.869	ug/L		100
111)	1,2,3-Trichlorobenzene	14.614	180	14701	1.950	ug/L		97

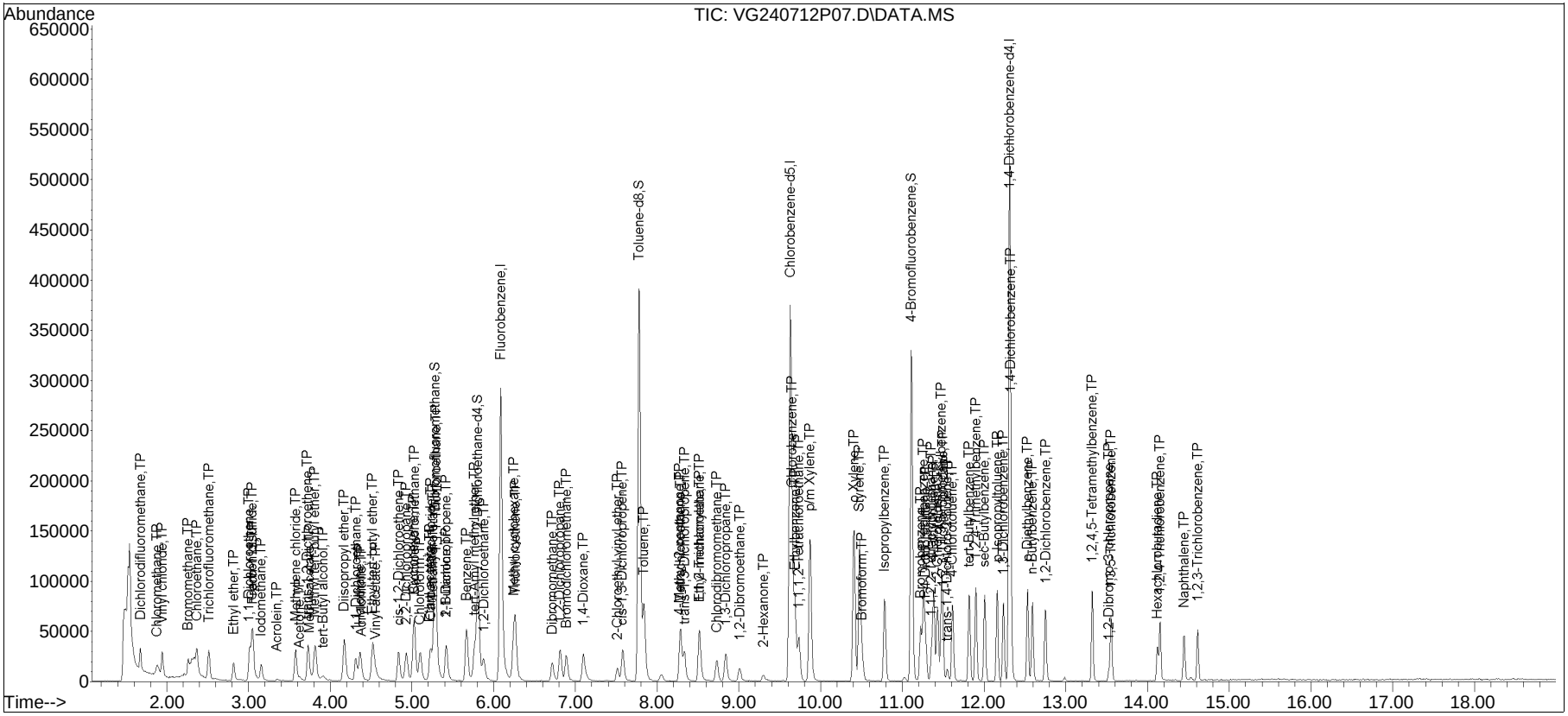
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P07.D
Acq On : 12 Jul 2024 10:56 pm
Operator : GONZO:PID
Sample : I8260STD2PPB
Misc : WG1947004,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 09:37:49 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

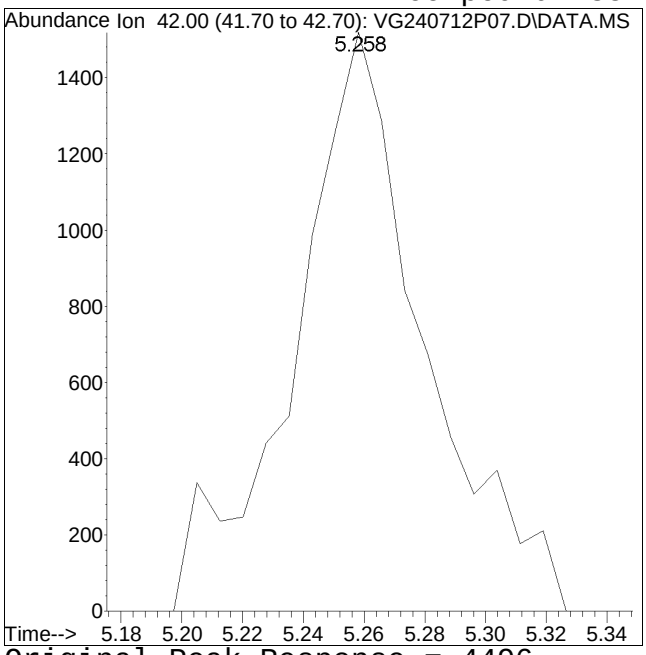
Sub List : 8260-Curve - Megamix plus DioxVG240712P08.D•



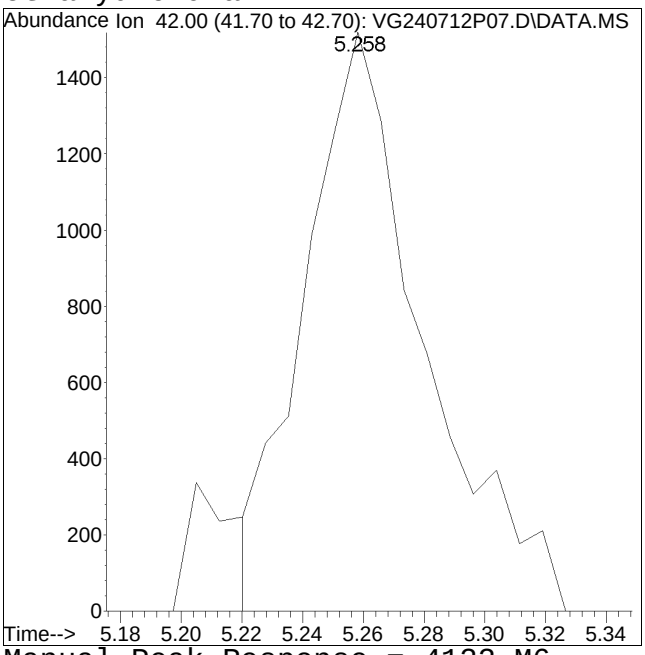
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P07.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:56 pm Instrument : Gonzo
Sample : I8260STD2PPB Quant Date : 7/15/2024 9:37 am

Compound #35: Tetrahydrofuran



Original Peak Response = 4496



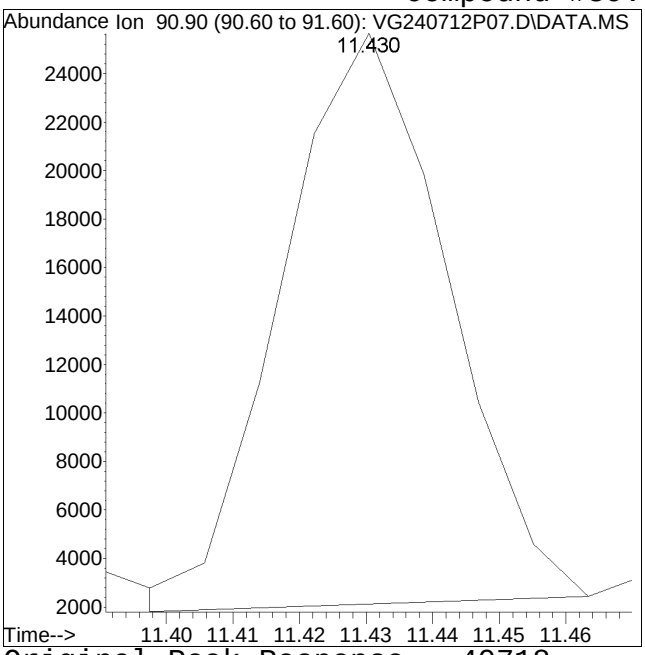
Manual Peak Response = 4122 M6

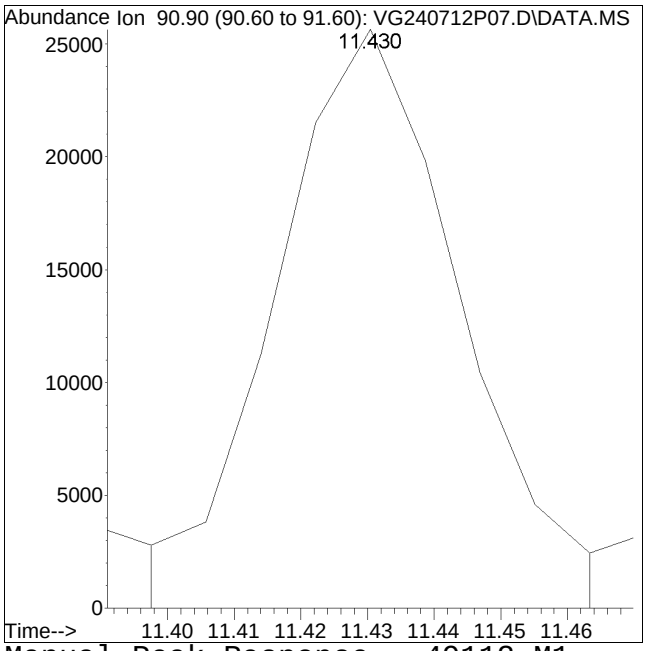
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P07.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:56 pm Instrument : Gonzo
Sample : I8260STD2PPB Quant Date : 7/15/2024 9:37 am

Compound #89: 2-Chlorotoluene



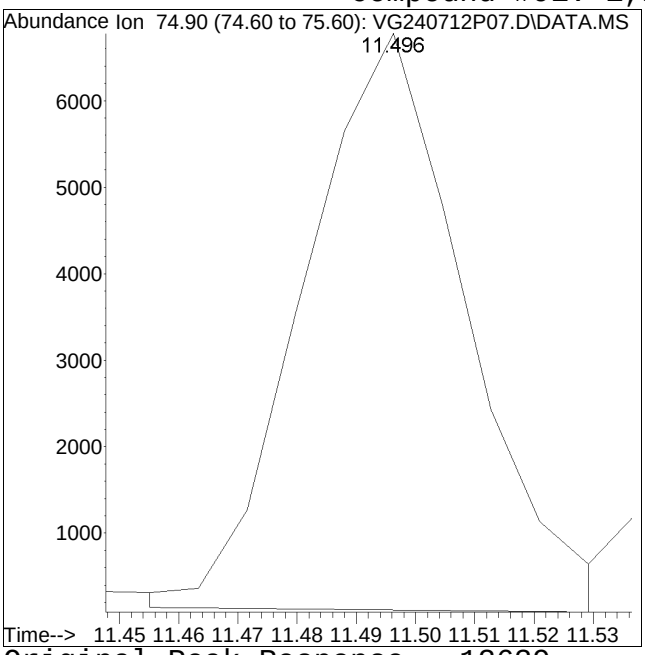


Original Peak Response = 40718 Manual Peak Response = 49112 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

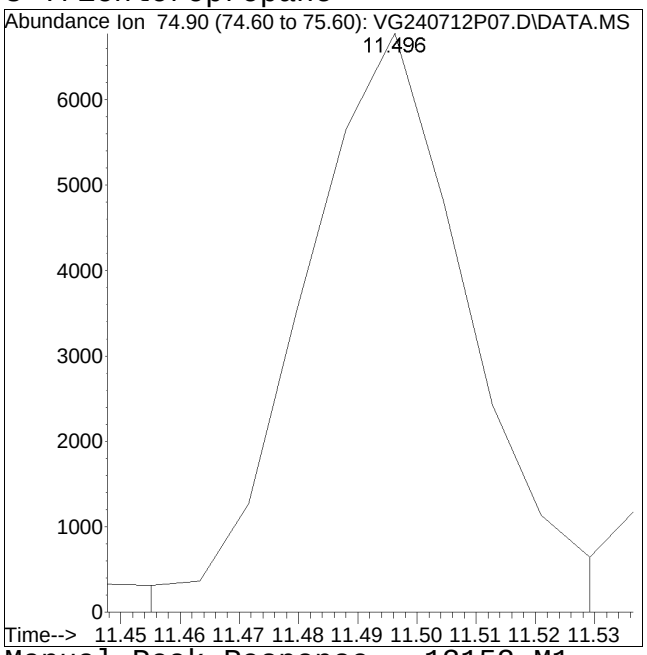
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P07.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 10:56 pm Instrument : Gonzo
Sample : I8260STD2PPB Quant Date : 7/15/2024 9:37 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 12639



Manual Peak Response = 13152 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P08.D
Acq On : 12 Jul 2024 11:20 pm
Operator : GONZO:PID
Sample : I8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 09:37:57 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	354306	10.000	ug/L	0.00
Standard Area 1 = 354306			Recovery = 100.00%			
59) Chlorobenzene-d5	9.629	117	276985	10.000	ug/L	0.00
Standard Area 1 = 276985			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.311	152	160037	10.000	ug/L	0.00
Standard Area 1 = 160037			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	92133	9.956	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.56%			
43) 1,2-Dichloroethane-d4	5.805	65	102401	10.416	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.16%			
60) Toluene-d8	7.779	98	350971	10.093	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.93%			
83) 4-Bromofluorobenzene	11.110	95	129463	9.686	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	104073	11.064	ug/L	98
3) Chloromethane	1.885	50	80582	10.015	ug/L	96
4) Vinyl chloride	1.946	62	93018	11.159	ug/L	100
5) Bromomethane	2.265	94	43942	9.335	ug/L	96
6) Chloroethane	2.371	64	66558	10.444	ug/L	99
7) Trichlorofluoromethane	2.516	101	120321	9.845	ug/L	91
8) Ethyl ether	2.819	74	40300	9.932	ug/L	94
10) 1,1-Dichloroethene	3.017	96	70738	10.554	ug/L	98
11) Carbon disulfide	3.047	76	202979	10.298	ug/L	99
12) Freon-113	3.047	101	76313	10.377	ug/L	85
13) Iodomethane	3.154	142	124010	10.212	ug/L	98
14) Acrolein	3.344	56	12033	10.440	ug/L	99
15) Methylene chloride	3.579	84	79539	10.037	ug/L	95
17) Acetone	3.625	43	17021	7.230	ug/L	98
18) trans-1,2-Dichloroethene	3.724	96	77412	10.559	ug/L	98
19) Methyl acetate	3.739	43	39376	7.472	ug/L	99
20) Methyl tert-butyl ether	3.815	73	223554	9.917	ug/L	97
21) tert-Butyl alcohol	3.906	59	30651	49.004	ug/L	98
22) Diisopropyl ether	4.172	45	236966	10.292	ug/L	99
23) 1,1-Dichloroethane	4.316	63	139835	10.530	ug/L	99
24) Halothane	4.362	117	63937	10.500	ug/L	98

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P08.D
Acq On : 12 Jul 2024 11:20 pm
Operator : GONZO:PID
Sample : I8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 09:37:57 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.369	53	20495	9.896	ug/L	94
26) Ethyl tert-butyl ether	4.521	59	227890	10.061	ug/L	97
27) Vinyl acetate	4.544	43	131130	10.656	ug/L	99
28) cis-1,2-Dichloroethene	4.833	96	86739	10.289	ug/L	96
29) 2,2-Dichloropropane	4.931	77	113646	10.264	ug/L	94
30) Bromochloromethane	5.030	128	42938	10.411	ug/L	96
31) Cyclohexane	5.023	56	132450	10.515	ug/L	86
32) Chloroform	5.099	83	144183	10.606	ug/L	99
33) Ethyl acetate	5.205	43	57402	9.537	ug/L	99
34) Carbon tetrachloride	5.228	117	122210	11.092	ug/L	98
35) Tetrahydrofuran	5.258	42	20810M6	9.498	ug/L	
37) 1,1,1-Trichloroethane	5.296	97	132414	10.561	ug/L	99
39) 2-Butanone	5.395	43	25684	9.995	ug/L	89
40) 1,1-Dichloropropene	5.418	75	105224	10.498	ug/L	98
41) Benzene	5.668	78	326866	10.769	ug/L	98
42) tert-Amyl methyl ether	5.767	73	207586	10.015	ug/L	99
44) 1,2-Dichloroethane	5.874	62	97001	10.027	ug/L	98
47) Methyl cyclohexane	6.246	83	128925	10.930	ug/L	92
48) Trichloroethene	6.261	95	88397	10.328	ug/L	100
50) Dibromomethane	6.717	93	49277	10.292	ug/L	95
51) 1,2-Dichloropropane	6.816	63	77980	10.529	ug/L	99
53) 2-Chloroethyl vinyl ether	7.507	63	43244	9.650	ug/L	99
54) Bromodichloromethane	6.884	83	110833	10.252	ug/L	100
57) 1,4-Dioxane	7.099	88	35915	476.735	ug/L	96
58) cis-1,3-Dichloropropene	7.579	75	123908	10.248	ug/L	97
61) Toluene	7.836	92	203126	10.552	ug/L	98
62) 4-Methyl-2-pentanone	8.273	58	21862	10.301	ug/L	96
63) Tetrachloroethene	8.288	166	90280	10.684	ug/L	98
65) trans-1,3-Dichloropropene	8.331	75	109161	10.358	ug/L	96
67) Ethyl methacrylate	8.510	69	88709	10.011	ug/L	99
68) 1,1,2-Trichloroethane	8.517	83	53589	10.145	ug/L	99
69) Chlorodibromomethane	8.725	129	86439	10.350	ug/L	97
70) 1,3-Dichloropropane	8.839	76	110016	10.450	ug/L	98
71) 1,2-Dibromoethane	9.004	107	67957	10.142	ug/L	100
72) 2-Hexanone	9.283	43	37271	9.469	ug/L	98
73) Chlorobenzene	9.645	112	225099	10.492	ug/L	100
74) Ethylbenzene	9.678	91	389004	10.584	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.736	131	83492	10.457	ug/L	99
76) p/m Xylene	9.867	106	308831	21.252	ug/L	99
77) o Xylene	10.402	106	298234	21.186	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P08.D
Acq On : 12 Jul 2024 11:20 pm
Operator : GONZO:PID
Sample : I8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 09:37:57 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	10.476	104	499564	20.942	ug/L		98
80)	Bromoform	10.509	173	55204	9.737	ug/L		99
82)	Isopropylbenzene	10.781	105	380415	10.625	ug/L		100
84)	Bromobenzene	11.225	156	102225	10.327	ug/L		99
85)	n-Propylbenzene	11.258	91	436489	10.466	ug/L		99
86)	1,4-Dichlorobutane	11.282	55	115065	10.019	ug/L		99
87)	1,1,2,2-Tetrachloroethane	11.356	83	78939	9.921	ug/L		98
88)	4-Ethyltoluene	11.381	105	368555	10.571	ug/L		100
89)	2-Chlorotoluene	11.430	91	263738M1	10.311	ug/L		
90)	1,3,5-Trimethylbenzene	11.480	105	325688	10.553	ug/L		99
91)	1,2,3-Trichloropropane	11.496	75	66787	10.036	ug/L		98
92)	trans-1,4-Dichloro-2-b...	11.546	53	16540	9.065	ug/L	#	96
93)	4-Chlorotoluene	11.611	91	278152	10.563	ug/L		99
94)	tert-Butylbenzene	11.817	119	268117	10.748	ug/L		99
97)	1,2,4-Trimethylbenzene	11.899	105	323593	10.642	ug/L		100
98)	sec-Butylbenzene	12.006	105	380308	10.718	ug/L		100
99)	p-Isopropyltoluene	12.163	119	327721	10.640	ug/L		99
100)	1,3-Dichlorobenzene	12.237	146	191268	10.517	ug/L		100
101)	1,4-Dichlorobenzene	12.327	146	194645	10.392	ug/L		99
102)	p-Diethylbenzene	12.533	119	189303	10.699	ug/L		99
103)	n-Butylbenzene	12.590	91	259443	10.652	ug/L		99
104)	1,2-Dichlorobenzene	12.747	146	181112	10.441	ug/L		99
105)	1,2,4,5-Tetramethylben...	13.323	119	268152	10.125	ug/L		98
106)	1,2-Dibromo-3-chloropr...	13.528	155	13870	9.398	ug/L		95
107)	1,3,5-Trichlorobenzene	13.553	180	117896	10.325	ug/L		98
108)	Hexachlorobutadiene	14.120	225	31839	9.952	ug/L		97
109)	1,2,4-Trichlorobenzene	14.153	180	99009	10.014	ug/L		99
110)	Naphthalene	14.441	128	210646	9.491	ug/L		100
111)	1,2,3-Trichlorobenzene	14.614	180	82318	10.012	ug/L		99

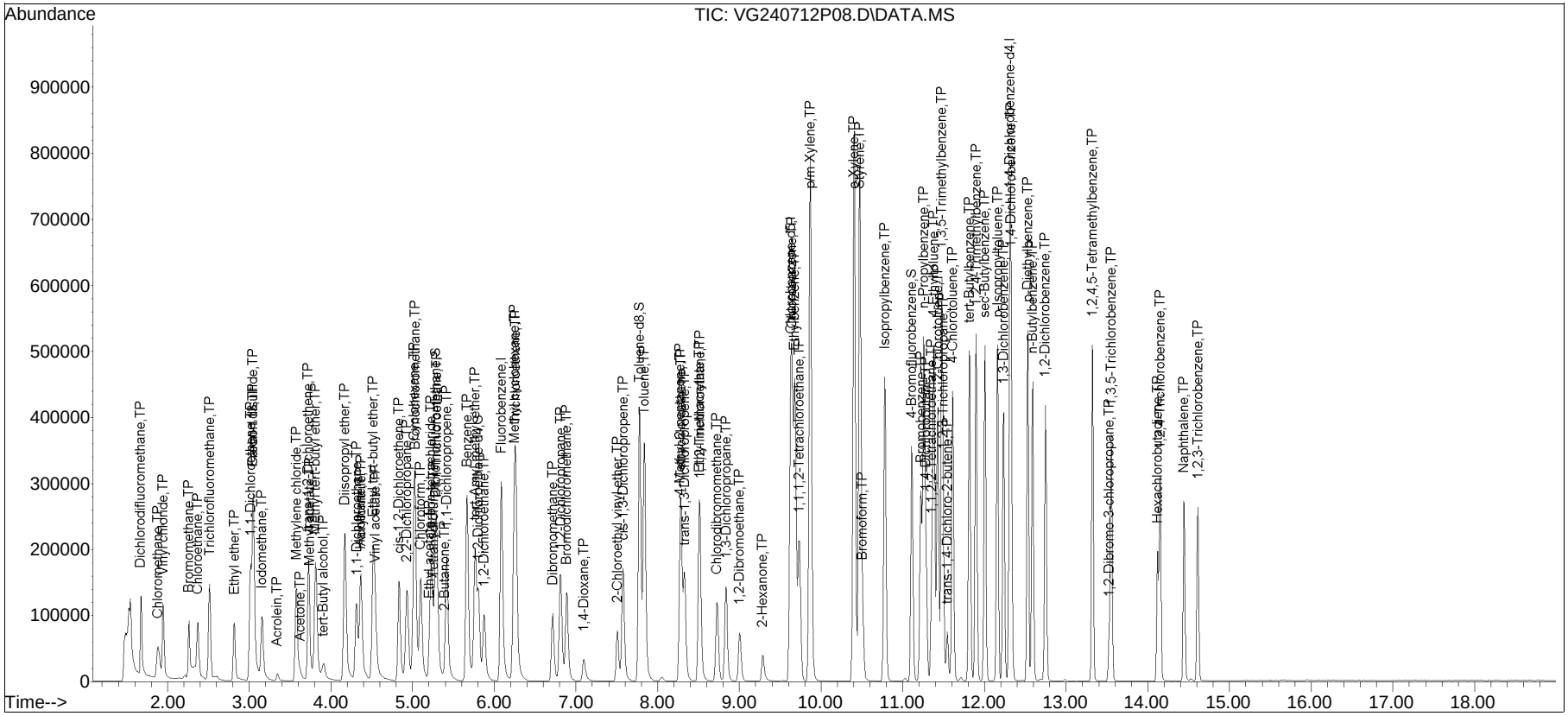
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P08.D
Acq On : 12 Jul 2024 11:20 pm
Operator : GONZO:PID
Sample : I8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 09:37:57 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

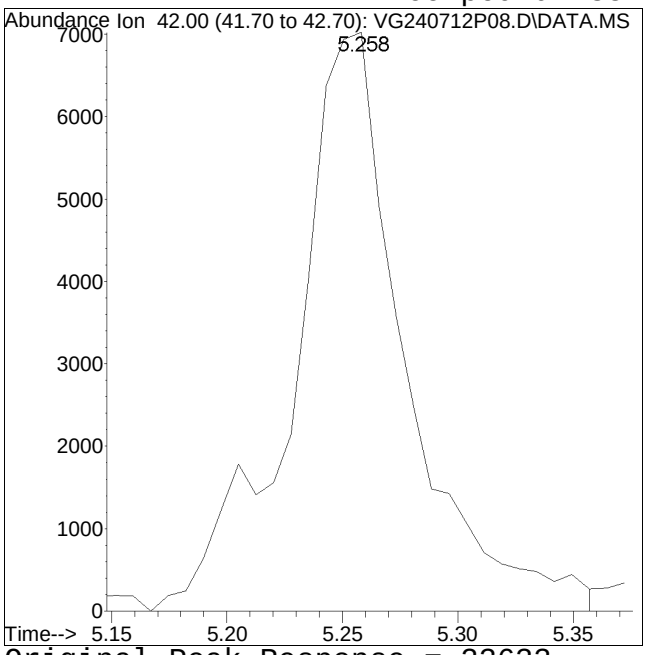
Sub List : 8260-Curve - Megamix plus DioxVG240712P08.D•



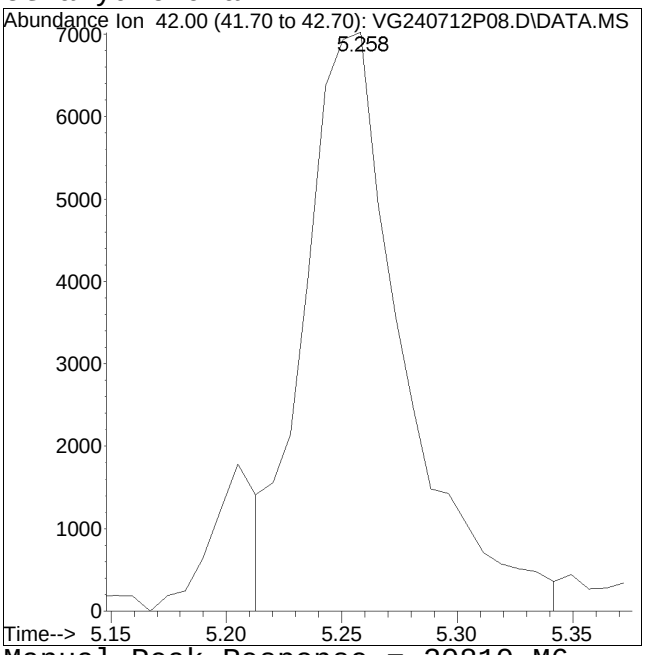
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P08.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 11:20 pm Instrument : Gonzo
Sample : I8260STD10PPB Quant Date : 7/15/2024 9:37 am

Compound #35: Tetrahydrofuran



Original Peak Response = 23633



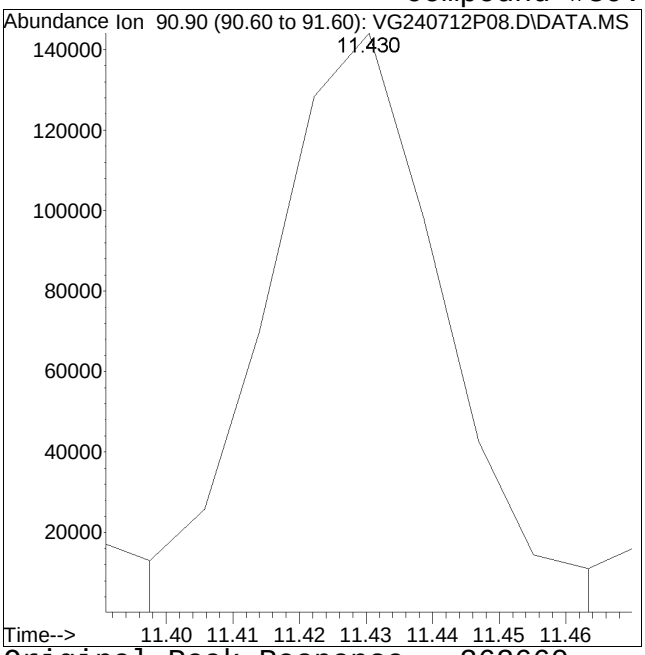
Manual Peak Response = 20810 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

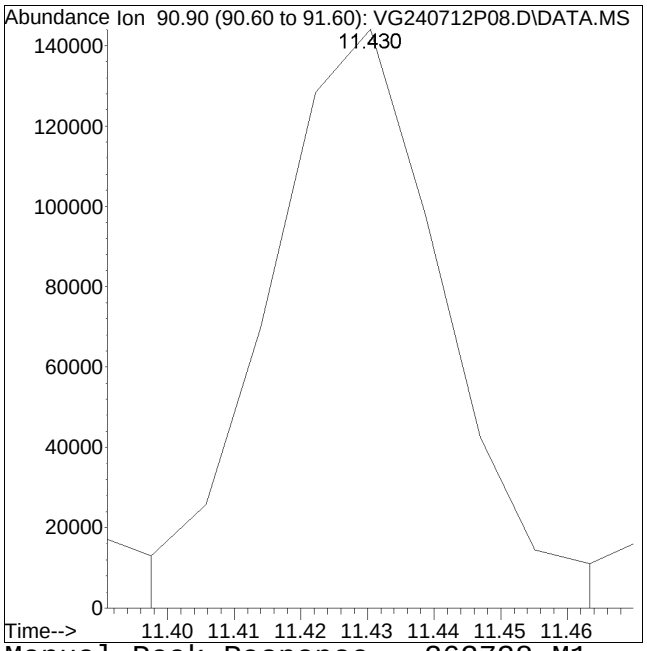
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P08.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 11:20 pm Instrument : Gonzo
Sample : I8260STD10PPB Quant Date : 7/15/2024 9:37 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 262660



Manual Peak Response = 263738 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P09.D
Acq On : 12 Jul 2024 11:44 pm
Operator : GONZO:PID
Sample : I8260STD30PPB
Misc : WG1947004,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 09:38:06 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	372719	10.000	ug/L	0.00
Standard Area 1 = 354306			Recovery = 105.20%			
59) Chlorobenzene-d5	9.629	117	299867	10.000	ug/L	0.00
Standard Area 1 = 276985			Recovery = 108.26%			
79) 1,4-Dichlorobenzene-d4	12.311	152	171304	10.000	ug/L	0.00
Standard Area 1 = 160037			Recovery = 107.04%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	96776	9.941	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.41%			
43) 1,2-Dichloroethane-d4	5.805	65	100020	9.671	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.71%			
60) Toluene-d8	7.779	98	374235	9.941	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.41%			
83) 4-Bromofluorobenzene	11.110	95	143682	10.042	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	324565	32.799	ug/L	99
3) Chloromethane	1.885	50	255836	30.224	ug/L	98
4) Vinyl chloride	1.946	62	286164	32.633	ug/L	99
5) Bromomethane	2.265	94	145483	29.379	ug/L	98
6) Chloroethane	2.364	64	212529	31.701	ug/L	97
7) Trichlorofluoromethane	2.516	101	427640	33.261	ug/L	99
8) Ethyl ether	2.812	74	127609	29.895	ug/L	94
10) 1,1-Dichloroethene	3.009	96	228092	32.351	ug/L	100
11) Carbon disulfide	3.047	76	628055	30.289	ug/L	99
12) Freon-113	3.047	101	252957	32.698	ug/L	93
13) Iodomethane	3.154	142	427847	33.492	ug/L	99
14) Acrolein	3.336	56	35475	29.258	ug/L	98
15) Methylene chloride	3.572	84	244841	29.371	ug/L	95
17) Acetone	3.617	43	57477	23.208	ug/L	94
18) trans-1,2-Dichloroethene	3.724	96	239932	31.110	ug/L	99
19) Methyl acetate	3.731	43	119708	21.594	ug/L	99
20) Methyl tert-butyl ether	3.815	73	728561	30.722	ug/L	98
21) tert-Butyl alcohol	3.906	59	100969	153.451	ug/L	92
22) Diisopropyl ether	4.172	45	763008	31.502	ug/L	99
23) 1,1-Dichloroethane	4.308	63	432018	30.924	ug/L	98
24) Halothane	4.362	117	200927	31.366	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P09.D
Acq On : 12 Jul 2024 11:44 pm
Operator : GONZO:PID
Sample : I8260STD30PPB
Misc : WG1947004,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 09:38:06 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.362	53	65880	30.239	ug/L		96
26) Ethyl tert-butyl ether	4.521	59	742121	31.145	ug/L		97
27) Vinyl acetate	4.544	43	427564	33.028	ug/L		100
28) cis-1,2-Dichloroethene	4.833	96	274947	31.004	ug/L		96
29) 2,2-Dichloropropane	4.931	77	357399	30.684	ug/L		93
30) Bromochloromethane	5.030	128	132953	30.643	ug/L		96
31) Cyclohexane	5.023	56	447301	33.755	ug/L		86
32) Chloroform	5.099	83	438380	30.654	ug/L		97
33) Ethyl acetate	5.205	43	195972	30.951	ug/L		98
34) Carbon tetrachloride	5.228	117	386449	33.343	ug/L		98
35) Tetrahydrofuran	5.251	42	62108M6	26.946	ug/L		
37) 1,1,1-Trichloroethane	5.296	97	421180	31.934	ug/L		99
39) 2-Butanone	5.387	43	85414	31.596	ug/L	#	82
40) 1,1-Dichloropropene	5.418	75	348555	33.056	ug/L		99
41) Benzene	5.668	78	1025888	32.129	ug/L		98
42) tert-Amyl methyl ether	5.767	73	676608	31.030	ug/L		99
44) 1,2-Dichloroethane	5.873	62	311218	30.582	ug/L		99
47) Methyl cyclohexane	6.246	83	429499	34.614	ug/L		92
48) Trichloroethene	6.261	95	282627	31.388	ug/L		100
50) Dibromomethane	6.709	93	152501	30.278	ug/L		99
51) 1,2-Dichloropropane	6.808	63	244606	31.396	ug/L		100
53) 2-Chloroethyl vinyl ether	7.507	63	151030	32.039	ug/L		94
54) Bromodichloromethane	6.884	83	350592	30.827	ug/L		99
57) 1,4-Dioxane	7.099	88	47572	600.274	ug/L		98
58) cis-1,3-Dichloropropene	7.571	75	391518	30.782	ug/L		98
61) Toluene	7.836	92	643877	30.895	ug/L		98
62) 4-Methyl-2-pentanone	8.273	58	72792	31.680	ug/L		97
63) Tetrachloroethene	8.281	166	291708	31.888	ug/L		98
65) trans-1,3-Dichloropropene	8.323	75	349573	30.639	ug/L		94
67) Ethyl methacrylate	8.503	69	297496	31.011	ug/L		97
68) 1,1,2-Trichloroethane	8.517	83	173270	30.299	ug/L		100
69) Chlorodibromomethane	8.725	129	280060	30.975	ug/L		99
70) 1,3-Dichloropropane	8.839	76	346843	30.432	ug/L		99
71) 1,2-Dibromoethane	9.004	107	218120	30.069	ug/L		99
72) 2-Hexanone	9.283	43	132929	31.195	ug/L		97
73) Chlorobenzene	9.645	112	710577	30.594	ug/L		100
74) Ethylbenzene	9.678	91	1233930	31.011	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.736	131	272925	31.575	ug/L		99
76) p/m Xylene	9.867	106	979290	62.247	ug/L		98
77) o Xylene	10.402	106	944700	61.989	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P09.D
Acq On : 12 Jul 2024 11:44 pm
Operator : GONZO:PID
Sample : I8260STD30PPB
Misc : WG1947004,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 09:38:06 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.476	104	1602988	62.069	ug/L		99
80) Bromoform	10.509	173	189180	31.172	ug/L		99
82) Isopropylbenzene	10.781	105	1234887	32.221	ug/L		100
84) Bromobenzene	11.225	156	327754	30.934	ug/L		99
85) n-Propylbenzene	11.258	91	1413029	31.652	ug/L		100
86) 1,4-Dichlorobutane	11.282	55	364471	29.647	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.356	83	260616	30.598	ug/L		98
88) 4-Ethyltoluene	11.381	105	1182608	31.688	ug/L		100
89) 2-Chlorotoluene	11.430	91	836860M1	30.566	ug/L		
90) 1,3,5-Trimethylbenzene	11.480	105	1035689	31.350	ug/L		100
91) 1,2,3-Trichloropropane	11.496	75	209842	29.459	ug/L		97
92) trans-1,4-Dichloro-2-b...	11.546	53	58880	30.149	ug/L	#	93
93) 4-Chlorotoluene	11.611	91	870420	30.882	ug/L		98
94) tert-Butylbenzene	11.817	119	863614	32.343	ug/L		99
97) 1,2,4-Trimethylbenzene	11.899	105	1022060	31.402	ug/L		100
98) sec-Butylbenzene	12.006	105	1219756	32.115	ug/L		99
99) p-Isopropyltoluene	12.154	119	1060162	32.155	ug/L		99
100) 1,3-Dichlorobenzene	12.237	146	608789	31.274	ug/L		99
101) 1,4-Dichlorobenzene	12.327	146	617006	30.775	ug/L		100
102) p-Diethylbenzene	12.533	119	609843	32.201	ug/L		99
103) n-Butylbenzene	12.590	91	836761	32.095	ug/L		99
104) 1,2-Dichlorobenzene	12.747	146	580058	31.240	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.322	119	887011	31.289	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.528	155	49106	31.084	ug/L		99
107) 1,3,5-Trichlorobenzene	13.553	180	389689	31.884	ug/L		99
108) Hexachlorobutadiene	14.120	225	111654	32.606	ug/L		99
109) 1,2,4-Trichlorobenzene	14.153	180	342320	32.345	ug/L		98
110) Naphthalene	14.441	128	733269	30.865	ug/L		100
111) 1,2,3-Trichlorobenzene	14.614	180	277050	31.481	ug/L		99

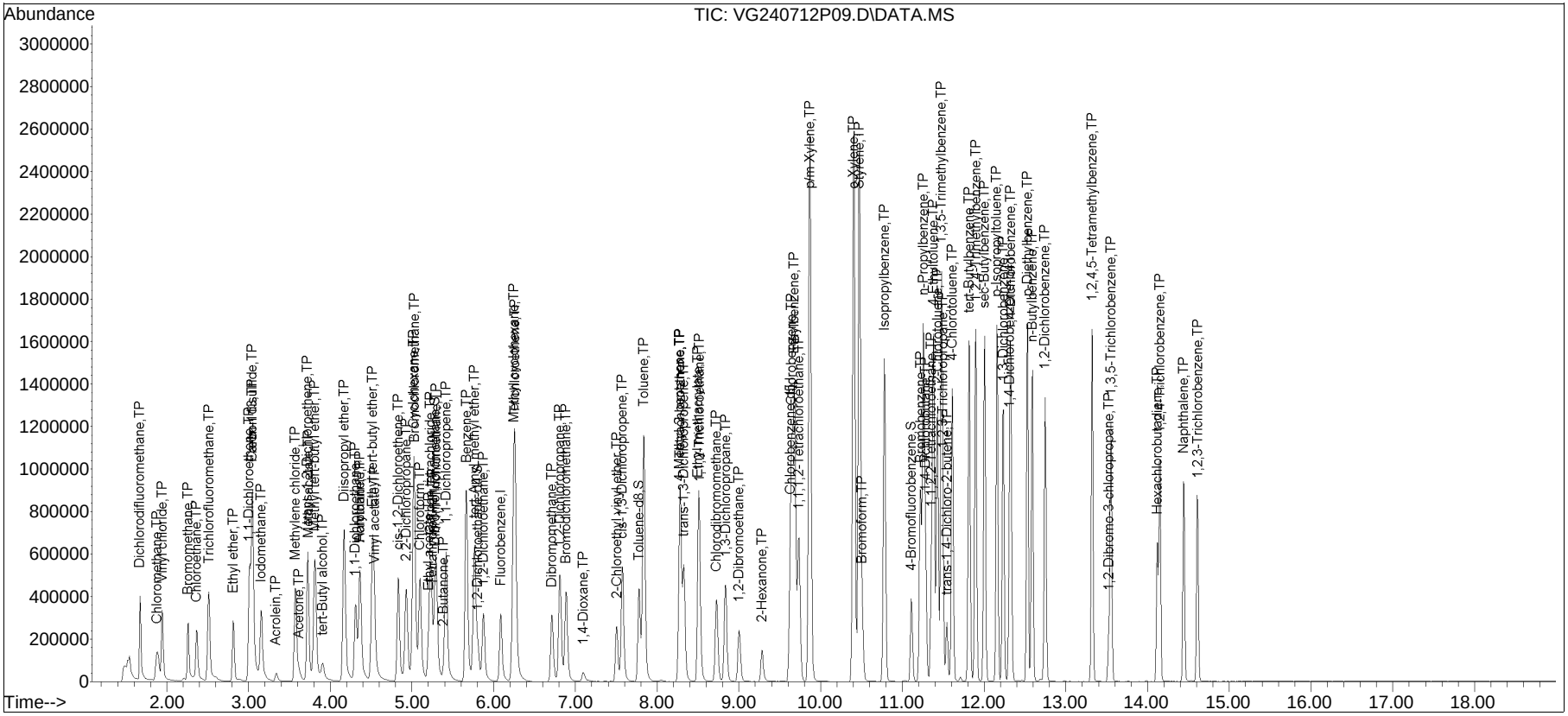
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P09.D
Acq On : 12 Jul 2024 11:44 pm
Operator : GONZO:PID
Sample : I8260STD30PPB
Misc : WG1947004,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 09:38:06 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

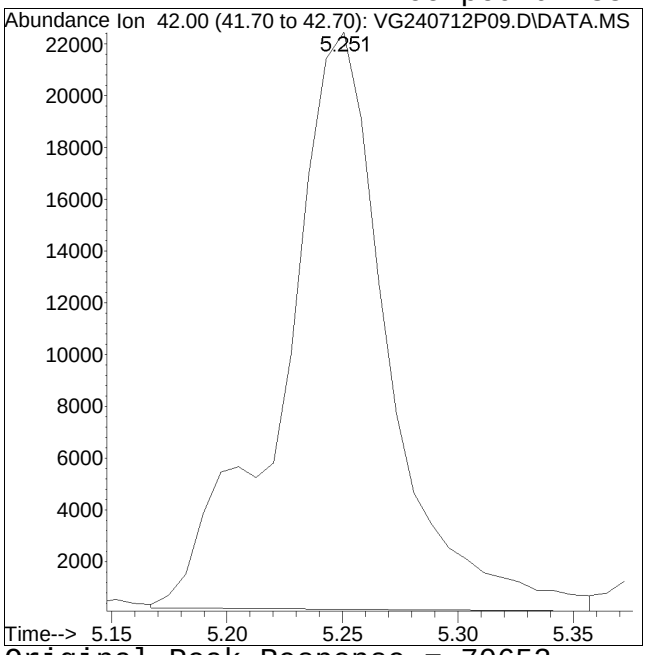
Sub List : 8260-Curve - Megamix plus DioxVG240712P08.D•



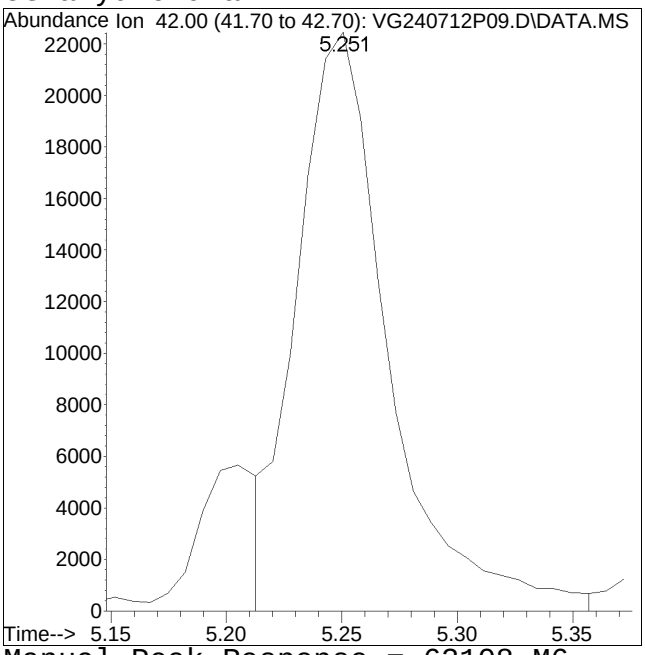
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P09.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 11:44 pm Instrument : Gonzo
Sample : I8260STD30PPB Quant Date : 7/15/2024 9:38 am

Compound #35: Tetrahydrofuran



Original Peak Response = 70652



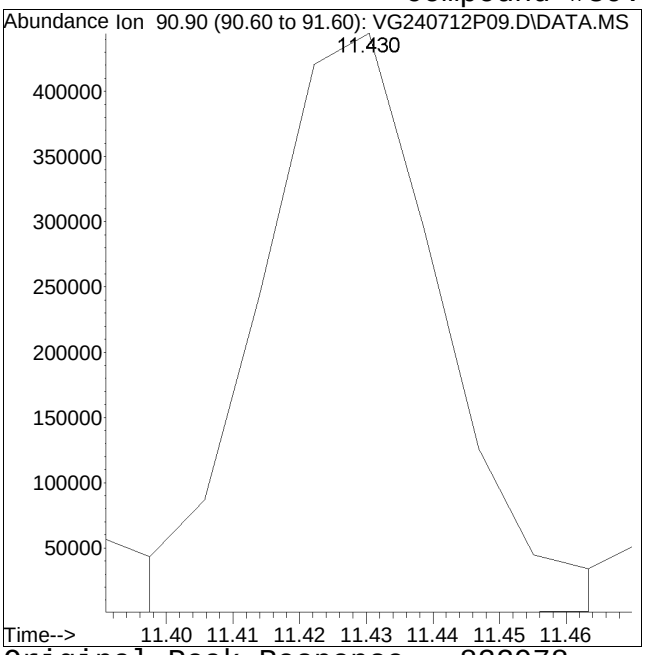
Manual Peak Response = 62108 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

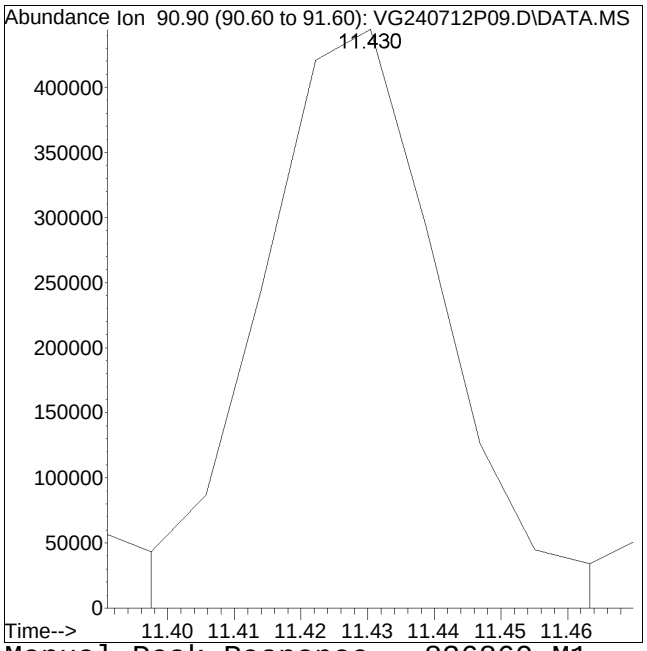
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P09.D Operator : GONZO:PID
Date Inj'd : 7/12/2024 11:44 pm Instrument : Gonzo
Sample : I8260STD30PPB Quant Date : 7/15/2024 9:38 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 832978



Manual Peak Response = 836860 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P10.D
Acq On : 13 Jul 2024 12:09 am
Operator : GONZO:PID
Sample : I8260STD80PPB
Misc : WG1947004,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 09:38:15 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	383032	10.000	ug/L	0.00
Standard Area 1 = 354306			Recovery = 108.11%			
59) Chlorobenzene-d5	9.629	117	309567	10.000	ug/L	0.00
Standard Area 1 = 276985			Recovery = 111.76%			
79) 1,4-Dichlorobenzene-d4	12.311	152	180694	10.000	ug/L	0.00
Standard Area 1 = 160037			Recovery = 112.91%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	98748	9.870	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.70%			
43) 1,2-Dichloroethane-d4	5.805	65	104156	9.800	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.00%			
60) Toluene-d8	7.779	98	385574	9.921	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.21%			
83) 4-Bromofluorobenzene	11.110	95	147049	9.744	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	862472	84.810	ug/L	99
3) Chloromethane	1.885	50	695432	79.945	ug/L	99
4) Vinyl chloride	1.946	62	769310	85.366	ug/L	99
5) Bromomethane	2.265	94	463493	91.078	ug/L	99
6) Chloroethane	2.364	64	587477	85.270	ug/L	97
7) Trichlorofluoromethane	2.516	101	1150188	87.052	ug/L	99
8) Ethyl ether	2.812	74	359838	82.030	ug/L	92
10) 1,1-Dichloroethene	3.017	96	620430	85.628	ug/L	98
11) Carbon disulfide	3.047	76	1778961	83.483	ug/L	100
12) Freon-113	3.047	101	687108	86.425	ug/L	88
13) Iodomethane	3.154	142	1245768	94.893	ug/L	99
14) Acrolein	3.336	56	105198	84.427	ug/L	96
15) Methylene chloride	3.572	84	683427	79.776	ug/L	96
17) Acetone	3.617	43	152239	59.817	ug/L	91
18) trans-1,2-Dichloroethene	3.724	96	670424	84.588	ug/L	98
19) Methyl acetate	3.731	43	338259	59.375	ug/L	98
20) Methyl tert-butyl ether	3.815	73	2058933	84.483	ug/L	98
21) tert-Butyl alcohol	3.906	59	289665	428.375	ug/L	92
22) Diisopropyl ether	4.172	45	2152115	86.462	ug/L	98
23) 1,1-Dichloroethane	4.309	63	1211459	84.382	ug/L	99
24) Halothane	4.362	117	557588	84.699	ug/L	99

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P10.D
Acq On : 13 Jul 2024 12:09 am
Operator : GONZO:PID
Sample : I8260STD80PPB
Misc : WG1947004,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 09:38:15 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.362	53	193173	86.281	ug/L		92
26) Ethyl tert-butyl ether	4.521	59	2105888	86.000	ug/L		95
27) Vinyl acetate	4.544	43	1140924	85.760	ug/L		99
28) cis-1,2-Dichloroethene	4.833	96	758949	83.276	ug/L		97
29) 2,2-Dichloropropane	4.932	77	993680	83.013	ug/L		93
30) Bromochloromethane	5.030	128	369889	82.957	ug/L		96
31) Cyclohexane	5.023	56	1178107	86.511	ug/L		87
32) Chloroform	5.099	83	1240690	84.421	ug/L		99
33) Ethyl acetate	5.197	43	548149	84.242	ug/L		97
34) Carbon tetrachloride	5.228	117	1052509	88.367	ug/L		99
35) Tetrahydrofuran	5.243	42	168967M6	71.334	ug/L		
37) 1,1,1-Trichloroethane	5.296	97	1154438	85.173	ug/L		99
39) 2-Butanone	5.387	43	245796	88.475	ug/L	#	84
40) 1,1-Dichloropropene	5.418	75	934892	86.276	ug/L		98
41) Benzene	5.661	78	2809967	85.633	ug/L		98
42) tert-Amyl methyl ether	5.767	73	1903739	84.957	ug/L		99
44) 1,2-Dichloroethane	5.874	62	854820	81.737	ug/L		100
47) Methyl cyclohexane	6.246	83	1114480	87.400	ug/L		93
48) Trichloroethene	6.261	95	767225	82.914	ug/L		99
50) Dibromomethane	6.709	93	420450	81.230	ug/L		99
51) 1,2-Dichloropropane	6.808	63	676967	84.551	ug/L		100
53) 2-Chloroethyl vinyl ether	7.500	63	427961	88.342	ug/L		95
54) Bromodichloromethane	6.884	83	983509	84.151	ug/L		99
57) 1,4-Dioxane	7.099	88	63356	777.915	ug/L		97
58) cis-1,3-Dichloropropene	7.571	75	1100773	84.214	ug/L		99
61) Toluene	7.837	92	1782574	82.854	ug/L		99
62) 4-Methyl-2-pentanone	8.273	58	204922	86.389	ug/L		99
63) Tetrachloroethene	8.281	166	795917	84.279	ug/L		98
65) trans-1,3-Dichloropropene	8.324	75	999200	84.834	ug/L		94
67) Ethyl methacrylate	8.503	69	841792	85.000	ug/L		96
68) 1,1,2-Trichloroethane	8.510	83	491058	83.179	ug/L		100
69) Chlorodibromomethane	8.725	129	792845	84.941	ug/L		99
70) 1,3-Dichloropropane	8.832	76	971521	82.571	ug/L		99
71) 1,2-Dibromoethane	9.004	107	620246	82.824	ug/L		100
72) 2-Hexanone	9.276	43	360048	81.847	ug/L		99
73) Chlorobenzene	9.645	112	1983776	82.737	ug/L		100
74) Ethylbenzene	9.678	91	3439373	83.730	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.736	131	766504	85.899	ug/L		99
76) p/m Xylene	9.868	106	2742934	168.888	ug/L		97
77) o Xylene	10.402	106	2624144	166.795	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P10.D
Acq On : 13 Jul 2024 12:09 am
Operator : GONZO:PID
Sample : I8260STD80PPB
Misc : WG1947004,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 09:38:15 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	10.476	104	4557406	170.938	ug/L		98
80)	Bromoform	10.509	173	537544	83.970	ug/L		99
82)	Isopropylbenzene	10.781	105	3387062	83.782	ug/L		100
84)	Bromobenzene	11.217	156	908955	81.331	ug/L		99
85)	n-Propylbenzene	11.258	91	3908848	83.007	ug/L		100
86)	1,4-Dichlorobutane	11.282	55	1024805	79.028	ug/L		99
87)	1,1,2,2-Tetrachloroethane	11.356	83	717844	79.901	ug/L		99
88)	4-Ethyltoluene	11.381	105	3267391	83.000	ug/L		100
89)	2-Chlorotoluene	11.431	91	2329687M1	80.670	ug/L		
90)	1,3,5-Trimethylbenzene	11.480	105	2857961	82.014	ug/L		99
91)	1,2,3-Trichloropropane	11.488	75	587774	78.227	ug/L		97
92)	trans-1,4-Dichloro-2-b...	11.546	53	183515	89.085	ug/L	#	91
93)	4-Chlorotoluene	11.611	91	2443388	82.184	ug/L		99
94)	tert-Butylbenzene	11.817	119	2357887	83.717	ug/L		99
97)	1,2,4-Trimethylbenzene	11.899	105	2833212	82.526	ug/L		99
98)	sec-Butylbenzene	12.006	105	3339056	83.345	ug/L		99
99)	p-Isopropyltoluene	12.163	119	2925150	84.109	ug/L		99
100)	1,3-Dichlorobenzene	12.237	146	1672782	81.466	ug/L		99
101)	1,4-Dichlorobenzene	12.327	146	1703845	80.567	ug/L		100
102)	p-Diethylbenzene	12.533	119	1686786	84.438	ug/L		99
103)	n-Butylbenzene	12.590	91	2311763	84.062	ug/L		99
104)	1,2-Dichlorobenzene	12.747	146	1601713	81.780	ug/L		99
105)	1,2,4,5-Tetramethylben...	13.323	119	2542605	85.027	ug/L		98
106)	1,2-Dibromo-3-chloropr...	13.528	155	137995	82.813	ug/L		96
107)	1,3,5-Trichlorobenzene	13.553	180	1084044	84.085	ug/L		99
108)	Hexachlorobutadiene	14.121	225	314745	87.137	ug/L		99
109)	1,2,4-Trichlorobenzene	14.145	180	965002	86.441	ug/L		99
110)	Naphthalene	14.441	128	2082405	83.098	ug/L		100
111)	1,2,3-Trichlorobenzene	14.606	180	789706	85.070	ug/L		99

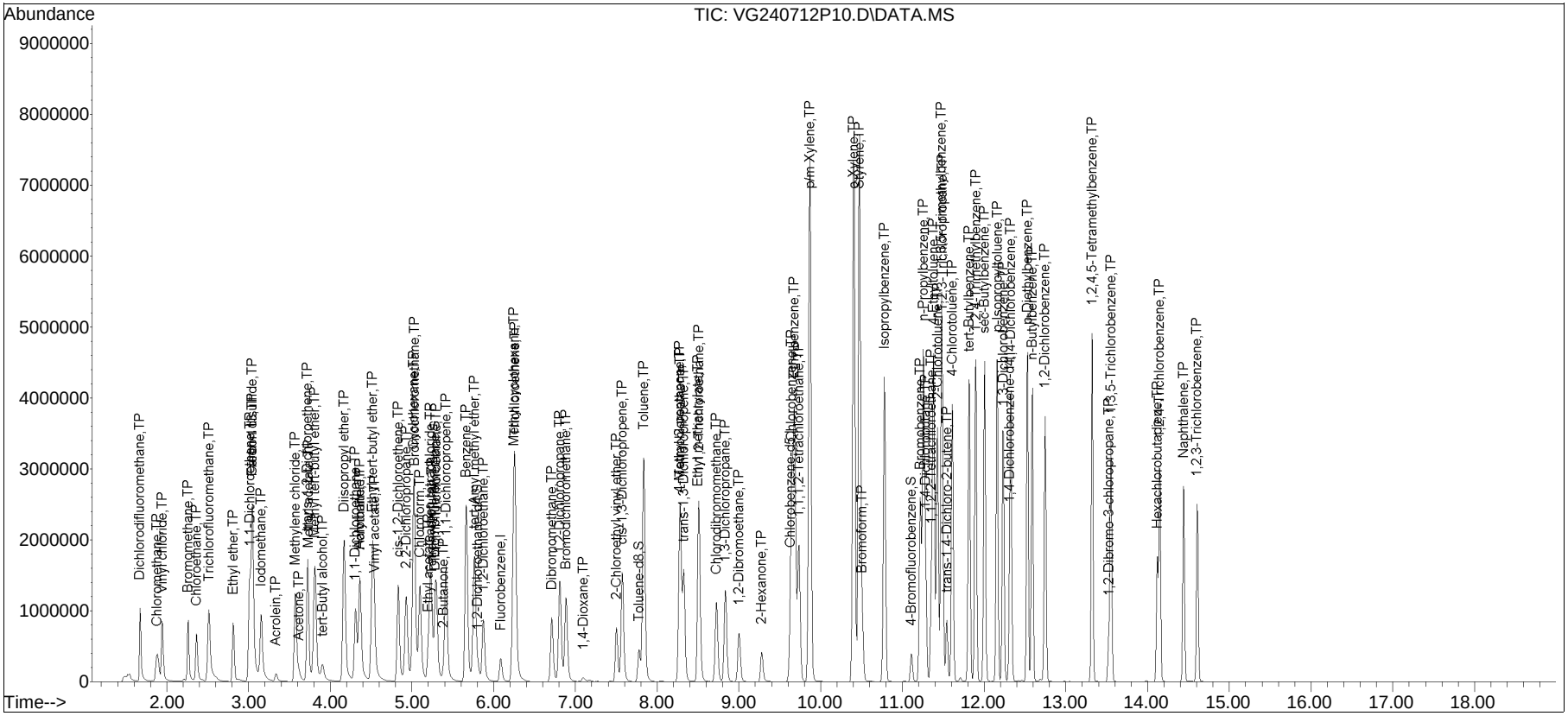
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P10.D
Acq On : 13 Jul 2024 12:09 am
Operator : GONZO:PID
Sample : I8260STD80PPB
Misc : WG1947004,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 09:38:15 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

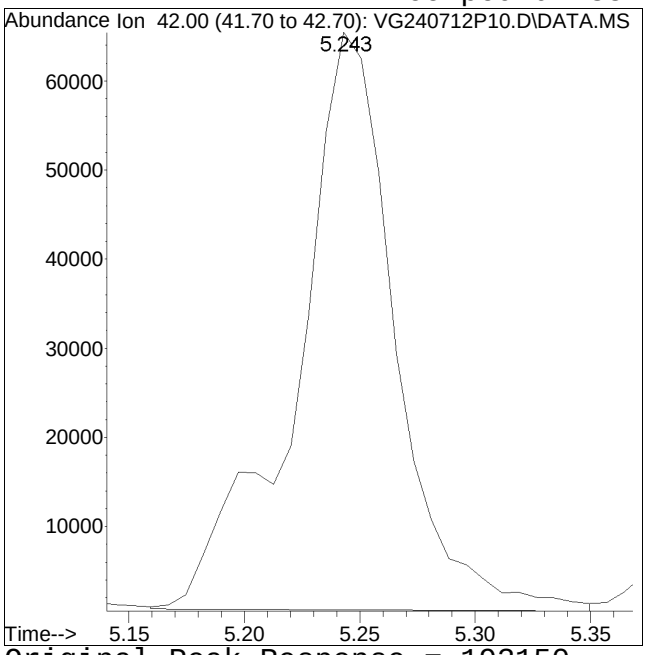
Sub List : 8260-Curve - Megamix plus DioxVG240712P08.D•



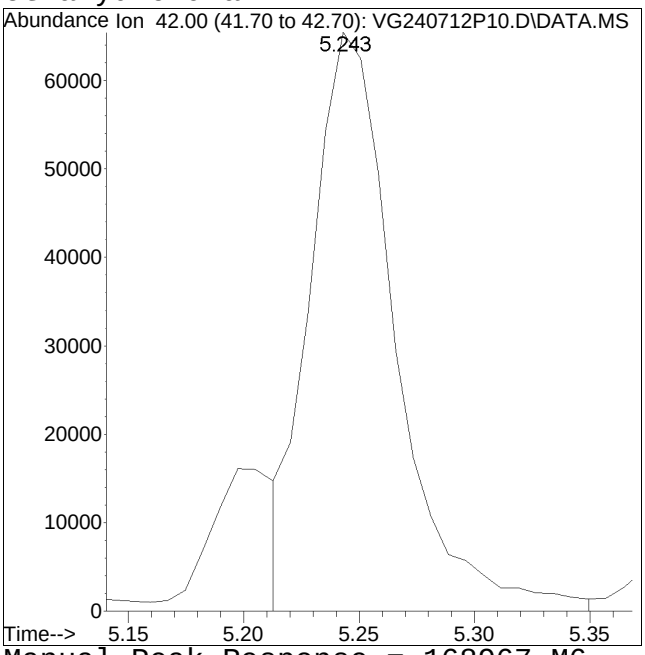
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P10.D Operator : GONZO:PID
Date Inj'd : 7/13/2024 12:09 am Instrument : Gonzo
Sample : I8260STD80PPB Quant Date : 7/15/2024 9:38 am

Compound #35: Tetrahydrofuran



Original Peak Response = 193150



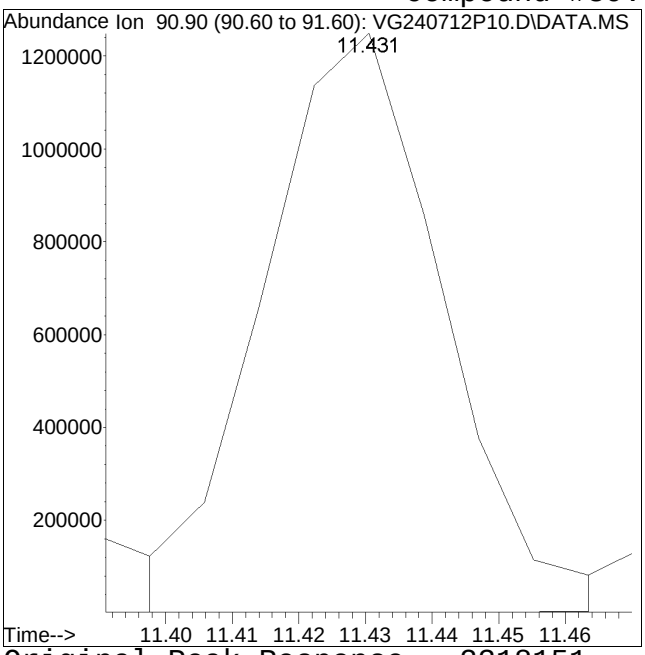
Manual Peak Response = 168967 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

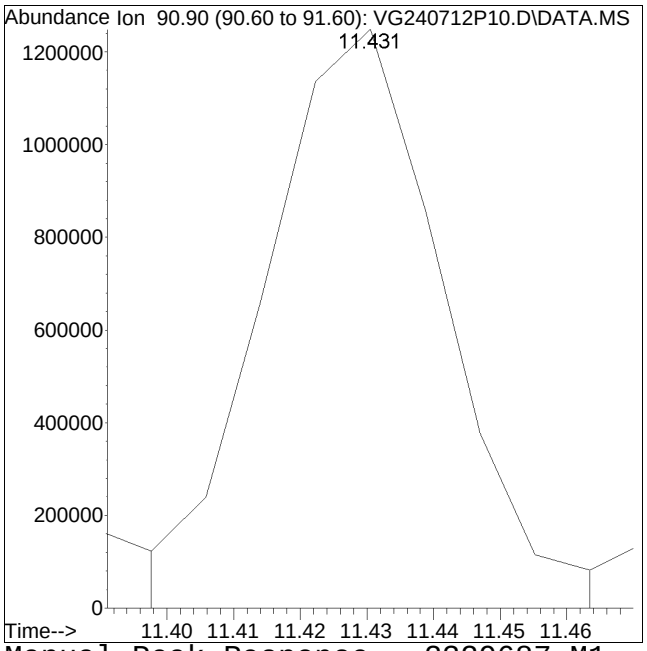
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P10.D Operator : GONZO:PID
Date Inj'd : 7/13/2024 12:09 am Instrument : Gonzo
Sample : I8260STD80PPB Quant Date : 7/15/2024 9:38 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 2318151



Manual Peak Response = 2329687 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P11.D
Acq On : 13 Jul 2024 12:32 am
Operator : GONZO:PID
Sample : I8260STD120PPB
Misc : WG1947004,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 09:38:24 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	377936	10.000	ug/L	0.00
Standard Area 1 = 354306			Recovery = 106.67%			
59) Chlorobenzene-d5	9.629	117	302217	10.000	ug/L	0.00
Standard Area 1 = 276985			Recovery = 109.11%			
79) 1,4-Dichlorobenzene-d4	12.310	152	171302	10.000	ug/L	0.00
Standard Area 1 = 160037			Recovery = 107.04%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	97723	9.900	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.00%			
43) 1,2-Dichloroethane-d4	5.805	65	99788	9.516	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.16%			
60) Toluene-d8	7.779	98	380044	10.017	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.17%			
83) 4-Bromofluorobenzene	11.109	95	144339	10.088	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	1059142	105.554	ug/L	99
3) Chloromethane	1.885	50	862812	100.524	ug/L	99
4) Vinyl chloride	1.946	62	958158	107.755	ug/L	98
5) Bromomethane	2.265	94	615199	122.518	ug/L	99
6) Chloroethane	2.363	64	727175	106.969	ug/L	96
7) Trichlorofluoromethane	2.515	101	1442684	110.661	ug/L	99
8) Ethyl ether	2.812	74	451593	104.335	ug/L	95
10) 1,1-Dichloroethene	3.017	96	780991	109.241	ug/L	98
11) Carbon disulfide	3.047	76	2282406	108.553	ug/L	100
12) Freon-113	3.047	101	852944	108.731	ug/L	84
13) Iodomethane	3.154	142	1509994	116.571	ug/L	99
14) Acrolein	3.336	56	133657	108.713	ug/L	98
15) Methylene chloride	3.571	84	841960	99.606	ug/L	96
17) Acetone	3.609	43	189682	75.534	ug/L	91
18) trans-1,2-Dichloroethene	3.723	96	827161	105.771	ug/L	97
19) Methyl acetate	3.731	43	419216	74.578	ug/L	98
20) Methyl tert-butyl ether	3.815	73	2534557	105.401	ug/L	98
21) tert-Butyl alcohol	3.906	59	357581	535.944	ug/L	98
22) Diisopropyl ether	4.172	45	2637814	107.404	ug/L	98
23) 1,1-Dichloroethane	4.308	63	1500414	105.918	ug/L	99
24) Halothane	4.362	117	695872	107.130	ug/L	99

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P11.D
Acq On : 13 Jul 2024 12:32 am
Operator : GONZO:PID
Sample : I8260STD120PPB
Misc : WG1947004,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 09:38:24 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.362	53	238475	107.951	ug/L		94
26) Ethyl tert-butyl ether	4.521	59	2583270	106.918	ug/L		98
27) Vinyl acetate	4.536	43	1528446	116.437	ug/L		99
28) cis-1,2-Dichloroethene	4.833	96	942272	104.786	ug/L		97
29) 2,2-Dichloropropane	4.931	77	1208765	102.343	ug/L		93
30) Bromochloromethane	5.030	128	453303	103.036	ug/L		96
31) Cyclohexane	5.022	56	1457858	108.497	ug/L		93
32) Chloroform	5.098	83	1500849	103.500	ug/L		99
33) Ethyl acetate	5.197	43	678282	105.648	ug/L		98
34) Carbon tetrachloride	5.228	117	1303399	110.907	ug/L		99
35) Tetrahydrofuran	5.243	42	210002M6	89.854	ug/L		
37) 1,1,1-Trichloroethane	5.296	97	1425900	106.619	ug/L		99
39) 2-Butanone	5.387	43	304291	111.007	ug/L	#	84
40) 1,1-Dichloropropene	5.418	75	1162603	108.736	ug/L		98
41) Benzene	5.661	78	3481925	107.541	ug/L		98
42) tert-Amyl methyl ether	5.767	73	2351567	106.357	ug/L		99
44) 1,2-Dichloroethane	5.873	62	1047471	101.509	ug/L		99
47) Methyl cyclohexane	6.246	83	1366320	108.595	ug/L		93
48) Trichloroethene	6.261	95	937809	102.715	ug/L		99
50) Dibromomethane	6.709	93	516891	101.209	ug/L		99
51) 1,2-Dichloropropane	6.808	63	828576	104.882	ug/L		100
53) 2-Chloroethyl vinyl ether	7.500	63	529545	110.785	ug/L		95
54) Bromodichloromethane	6.884	83	1197815	103.869	ug/L		99
57) 1,4-Dioxane	7.098	88	99538	1238.654	ug/L		95
58) cis-1,3-Dichloropropene	7.571	75	1366954	105.988	ug/L		99
61) Toluene	7.836	92	2196660	104.584	ug/L		98
62) 4-Methyl-2-pentanone	8.273	58	254155	109.750	ug/L		99
63) Tetrachloroethene	8.280	166	995011	107.923	ug/L		98
65) trans-1,3-Dichloropropene	8.323	75	1235583	107.454	ug/L		94
67) Ethyl methacrylate	8.502	69	1039952	107.563	ug/L		97
68) 1,1,2-Trichloroethane	8.517	83	600812	104.245	ug/L		100
69) Chlorodibromomethane	8.725	129	979830	107.526	ug/L		99
70) 1,3-Dichloropropane	8.839	76	1186604	103.304	ug/L		99
71) 1,2-Dibromoethane	9.004	107	764085	104.513	ug/L		100
72) 2-Hexanone	9.276	43	446306	103.922	ug/L		99
73) Chlorobenzene	9.645	112	2439959	104.237	ug/L		100
74) Ethylbenzene	9.678	91	4271202	106.509	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.736	131	936936	107.553	ug/L		99
76) p/m Xylene	9.867	106	3391427	213.896	ug/L		97
77) o Xylene	10.410	106	3236266	210.706	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P11.D
Acq On : 13 Jul 2024 12:32 am
Operator : GONZO:PID
Sample : I8260STD120PPB
Misc : WG1947004,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 09:38:24 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.476	104	5649135	217.039	ug/L		97
80) Bromoform	10.509	173	668617	110.172	ug/L		100
82) Isopropylbenzene	10.780	105	4226170	110.270	ug/L		100
84) Bromobenzene	11.225	156	1112838	105.033	ug/L		99
85) n-Propylbenzene	11.258	91	4862561	108.922	ug/L		100
86) 1,4-Dichlorobutane	11.282	55	1270210	103.323	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.356	83	911294	106.994	ug/L		99
88) 4-Ethyltoluene	11.381	105	4073585	109.153	ug/L		100
89) 2-Chlorotoluene	11.430	91	2905702M1	106.132	ug/L		
90) 1,3,5-Trimethylbenzene	11.480	105	3542742	107.239	ug/L		99
91) 1,2,3-Trichloropropane	11.496	75	733961	103.039	ug/L		98
92) trans-1,4-Dichloro-2-b...	11.545	53	236928	121.319	ug/L	#	93
93) 4-Chlorotoluene	11.611	91	3021687	107.208	ug/L		99
94) tert-Butylbenzene	11.817	119	2900762	108.639	ug/L		98
97) 1,2,4-Trimethylbenzene	11.899	105	3524887	108.302	ug/L		99
98) sec-Butylbenzene	12.006	105	4140838	109.025	ug/L		100
99) p-Isopropyltoluene	12.162	119	3619561	109.782	ug/L		99
100) 1,3-Dichlorobenzene	12.236	146	2067463	106.208	ug/L		99
101) 1,4-Dichlorobenzene	12.327	146	2108277	105.157	ug/L		100
102) p-Diethylbenzene	12.533	119	2075192	109.577	ug/L		98
103) n-Butylbenzene	12.590	91	2895891	111.076	ug/L		99
104) 1,2-Dichlorobenzene	12.746	146	1963112	105.727	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.322	119	3140805	110.791	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.528	155	173972	110.127	ug/L		98
107) 1,3,5-Trichlorobenzene	13.553	180	1339414	109.590	ug/L		99
108) Hexachlorobutadiene	14.120	225	393823	115.008	ug/L		99
109) 1,2,4-Trichlorobenzene	14.153	180	1183732	111.848	ug/L		99
110) Naphthalene	14.441	128	2632511	110.809	ug/L		100
111) 1,2,3-Trichlorobenzene	14.614	180	980116	111.370	ug/L		99

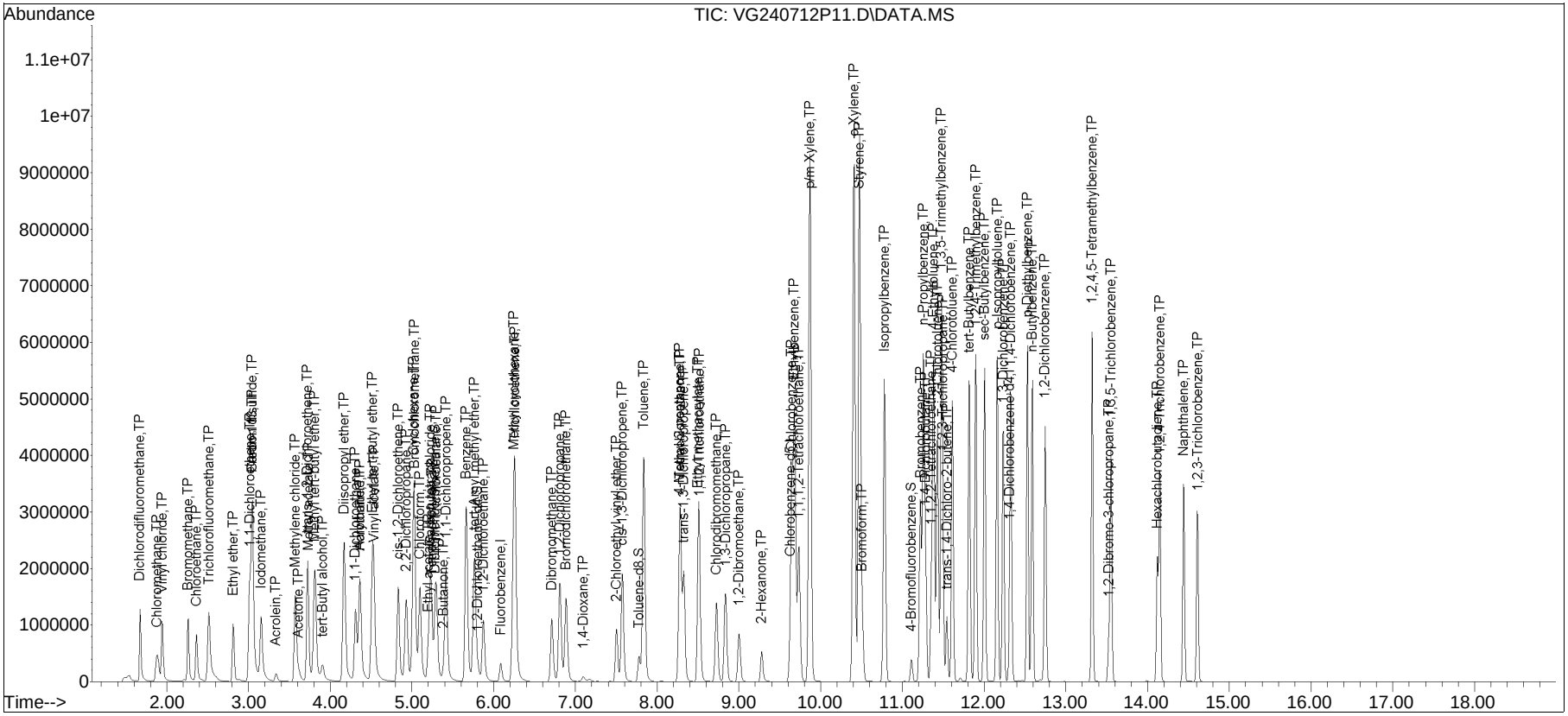
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P11.D
Acq On : 13 Jul 2024 12:32 am
Operator : GONZO:PID
Sample : I8260STD120PPB
Misc : WG1947004,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 09:38:24 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

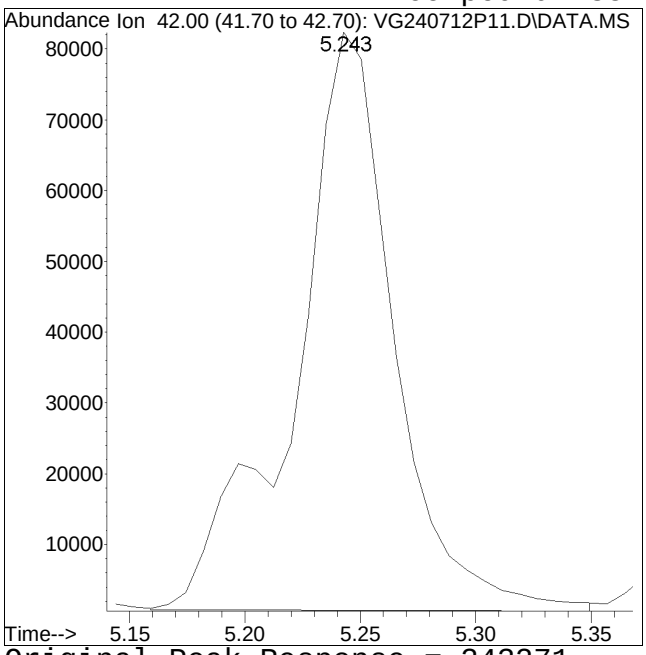
Sub List : 8260-Curve - Megamix plus DioxVG240712P08.D•



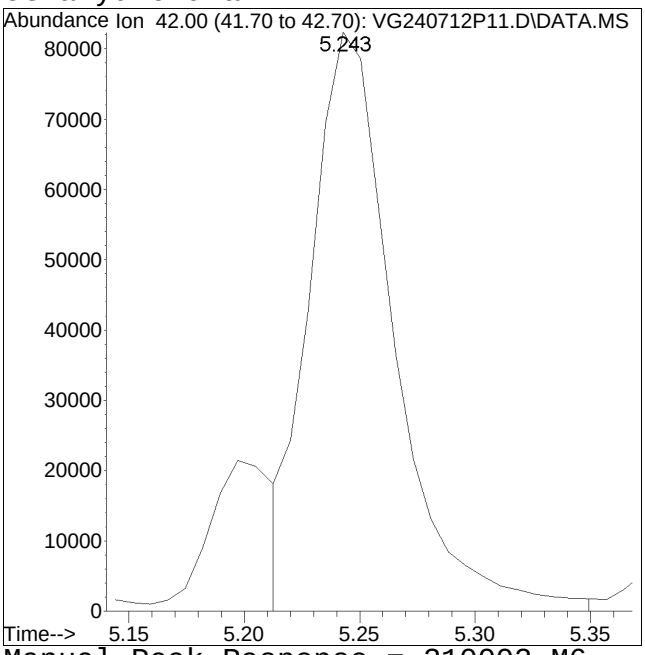
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P11.D Operator : GONZO:PID
Date Inj'd : 7/13/2024 12:32 am Instrument : Gonzo
Sample : I8260STD120PPB Quant Date : 7/15/2024 9:38 am

Compound #35: Tetrahydrofuran



Original Peak Response = 243271



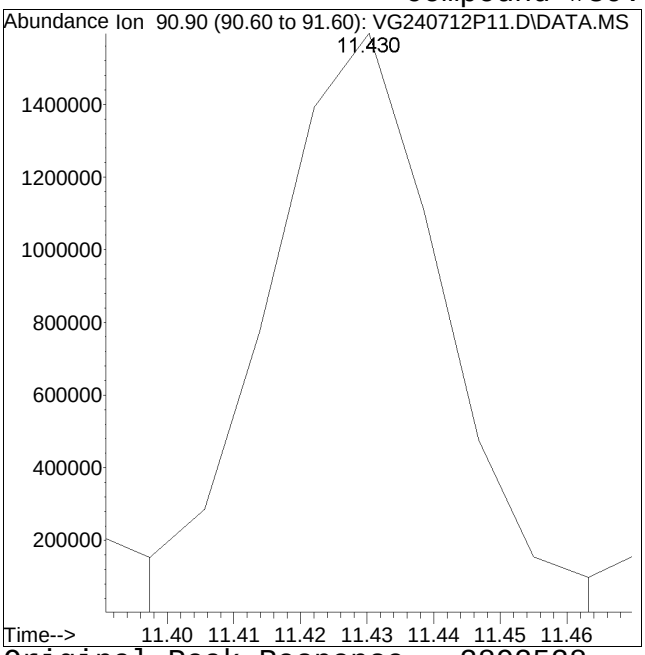
Manual Peak Response = 210002 M6

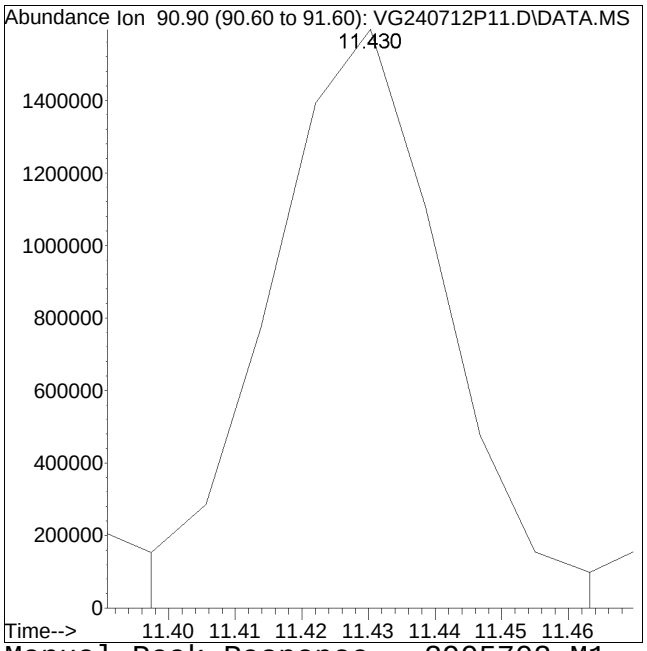
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P11.D Operator : GONZO:PID
Date Inj'd : 7/13/2024 12:32 am Instrument : Gonzo
Sample : I8260STD120PPB Quant Date : 7/15/2024 9:38 am

Compound #89: 2-Chlorotoluene





Original Peak Response = 2892528 Manual Peak Response = 2905702 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P12.D
Acq On : 13 Jul 2024 12:56 am
Operator : GONZO:PID
Sample : I8260STD200PPB
Misc : WG1947004,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 09:38:33 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	386380	10.000	ug/L	0.00
Standard Area 1 = 354306			Recovery = 109.05%			
59) Chlorobenzene-d5	9.629	117	319803	10.000	ug/L	0.00
Standard Area 1 = 276985			Recovery = 115.46%			
79) 1,4-Dichlorobenzene-d4	12.310	152	177767	10.000	ug/L	0.00
Standard Area 1 = 160037			Recovery = 111.08%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.273	113	101487	10.056	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.56%			
43) 1,2-Dichloroethane-d4	5.805	65	107518	10.029	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.29%			
60) Toluene-d8	7.779	98	393921	9.812	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.12%			
83) 4-Bromofluorobenzene	11.109	95	145700	9.813	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.13%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	2110199	205.706	ug/L	99
3) Chloromethane	1.885	50	1824456	207.918	ug/L	99
4) Vinyl chloride	1.938	62	2052905	225.825	ug/L	98
5) Bromomethane	2.257	94	1411260	274.914	ug/L	99
6) Chloroethane	2.356	64	1261279	181.483	ug/L	96
7) Trichlorofluoromethane	2.508	101	3044262	228.408	ug/L	99
8) Ethyl ether	2.812	74	960523	217.067	ug/L	93
10) 1,1-Dichloroethene	3.017	96	1669643	228.436	ug/L	98
11) Carbon disulfide	3.040	76	4976838	231.530	ug/L	100
12) Freon-113	3.040	101	1764003	219.955	ug/L #	77
13) Iodomethane	3.154	142	3250628	245.462	ug/L	99
14) Acrolein	3.336	56	275384	219.095	ug/L	100
15) Methylene chloride	3.571	84	1804030	208.757	ug/L	96
17) Acetone	3.609	43	405037	157.765	ug/L	91
18) trans-1,2-Dichloroethene	3.723	96	1804294	225.678	ug/L	98
19) Methyl acetate	3.723	43	890738	154.998	ug/L	98
20) Methyl tert-butyl ether	3.815	73	5470454	222.520	ug/L	98
21) tert-Butyl alcohol	3.906	59	773650	1134.209	ug/L	99
22) Diisopropyl ether	4.172	45	5672664	225.926	ug/L	99
23) 1,1-Dichloroethane	4.308	63	3171928	219.021	ug/L	99
24) Halothane	4.362	117	1480015	222.871	ug/L	100

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P12.D
Acq On : 13 Jul 2024 12:56 am
Operator : GONZO:PID
Sample : I8260STD200PPB
Misc : WG1947004,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 09:38:33 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.362	53	515668	228.327	ug/L		92
26) Ethyl tert-butyl ether	4.521	59	5628078	227.848	ug/L		92
27) Vinyl acetate	4.536	43	2710445	201.970	ug/L		100
28) cis-1,2-Dichloroethene	4.833	96	2030006	220.814	ug/L		98
29) 2,2-Dichloropropane	4.931	77	2576116	213.347	ug/L		93
30) Bromochloromethane	5.030	128	951515	211.553	ug/L		95
31) Cyclohexane	5.022	56	2973713	216.474	ug/L		86
32) Chloroform	5.098	83	3289177	221.868	ug/L		98
33) Ethyl acetate	5.197	43	1440671	219.491	ug/L		98
34) Carbon tetrachloride	5.228	117	2749711	228.861	ug/L		99
35) Tetrahydrofuran	5.243	42	442965M6	185.389	ug/L		
37) 1,1,1-Trichloroethane	5.296	97	3010744	220.203	ug/L		99
39) 2-Butanone	5.387	43	648512	231.411	ug/L	#	84
40) 1,1-Dichloropropene	5.418	75	2447948	223.949	ug/L		98
41) Benzene	5.661	78	7545706	227.960	ug/L		98
42) tert-Amyl methyl ether	5.767	73	5115122	226.291	ug/L		99
44) 1,2-Dichloroethane	5.873	62	2240678	212.396	ug/L		100
47) Methyl cyclohexane	6.246	83	2729273	212.181	ug/L		93
48) Trichloroethene	6.261	95	2082595	223.115	ug/L		100
50) Dibromomethane	6.709	93	1114091	213.376	ug/L		99
51) 1,2-Dichloropropane	6.808	63	1782489	220.698	ug/L		99
53) 2-Chloroethyl vinyl ether	7.507	63	1129499	231.137	ug/L		95
54) Bromodichloromethane	6.884	83	2581110	218.931	ug/L		99
57) 1,4-Dioxane	7.098	88	167499	2038.811	ug/L		97
58) cis-1,3-Dichloropropene	7.578	75	2956730	224.242	ug/L		99
61) Toluene	7.836	92	4720477	212.385	ug/L		97
62) 4-Methyl-2-pentanone	8.273	58	548428	223.801	ug/L		98
63) Tetrachloroethene	8.280	166	2104713	215.733	ug/L		98
65) trans-1,3-Dichloropropene	8.323	75	2692029	221.242	ug/L		94
67) Ethyl methacrylate	8.502	69	2287886	223.624	ug/L		96
68) 1,1,2-Trichloroethane	8.517	83	1320957	216.592	ug/L		99
69) Chlorodibromomethane	8.725	129	2119297	219.782	ug/L		99
70) 1,3-Dichloropropane	8.839	76	2577242	212.034	ug/L		99
71) 1,2-Dibromoethane	9.004	107	1644629	212.585	ug/L		99
72) 2-Hexanone	9.276	43	967153	212.818	ug/L		99
73) Chlorobenzene	9.653	112	5365625	216.619	ug/L		99
74) Ethylbenzene	9.686	91	9371930	220.852	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.736	131	2050168	222.401	ug/L		99
76) p/m Xylene	9.875	106	7591569	452.468	ug/L		95
77) o Xylene	10.410	106	7258699	446.609	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P12.D
Acq On : 13 Jul 2024 12:56 am
Operator : GONZO:PID
Sample : I8260STD200PPB
Misc : WG1947004,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 09:38:33 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.476	104	12976391	471.137	ug/L		95
80) Bromoform	10.509	173	1449234	230.113	ug/L		99
82) Isopropylbenzene	10.780	105	9032081	227.096	ug/L		99
84) Bromobenzene	11.225	156	2359837	214.628	ug/L		99
85) n-Propylbenzene	11.258	91	10428370	225.101	ug/L		99
86) 1,4-Dichlorobutane	11.282	55	2757804	216.171	ug/L		100
87) 1,1,2,2-Tetrachloroethane	11.356	83	1883791	213.131	ug/L		99
88) 4-Ethyltoluene	11.389	105	8732627	225.484	ug/L		99
89) 2-Chlorotoluene	11.430	91	6326654M6	222.680	ug/L		
90) 1,3,5-Trimethylbenzene	11.480	105	7755534	226.223	ug/L		98
91) 1,2,3-Trichloropropane	11.496	75	1607514	217.468	ug/L		98
92) trans-1,4-Dichloro-2-b...	11.545	53	530929	261.976	ug/L	#	93
93) 4-Chlorotoluene	11.611	91	6566691	224.509	ug/L		99
94) tert-Butylbenzene	11.817	119	6197300	223.659	ug/L		97
97) 1,2,4-Trimethylbenzene	11.899	105	7541150	223.275	ug/L		99
98) sec-Butylbenzene	12.006	105	8737521	221.687	ug/L		100
99) p-Isopropyltoluene	12.162	119	7760233	226.810	ug/L		98
100) 1,3-Dichlorobenzene	12.236	146	4426516	219.125	ug/L		99
101) 1,4-Dichlorobenzene	12.327	146	4502235	216.396	ug/L		99
102) p-Diethylbenzene	12.533	119	4494489	228.693	ug/L		98
103) n-Butylbenzene	12.590	91	6227543	230.178	ug/L		99
104) 1,2-Dichlorobenzene	12.746	146	4199734	217.959	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.322	119	6952315	236.321	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.528	155	371736	226.757	ug/L		97
107) 1,3,5-Trichlorobenzene	13.553	180	2775675	218.844	ug/L		99
108) Hexachlorobutadiene	14.120	225	832535	234.282	ug/L		99
109) 1,2,4-Trichlorobenzene	14.153	180	2424607	220.764	ug/L		99
110) Naphthalene	14.441	128	5539160	224.678	ug/L		100
111) 1,2,3-Trichlorobenzene	14.606	180	1954213	213.980	ug/L		98

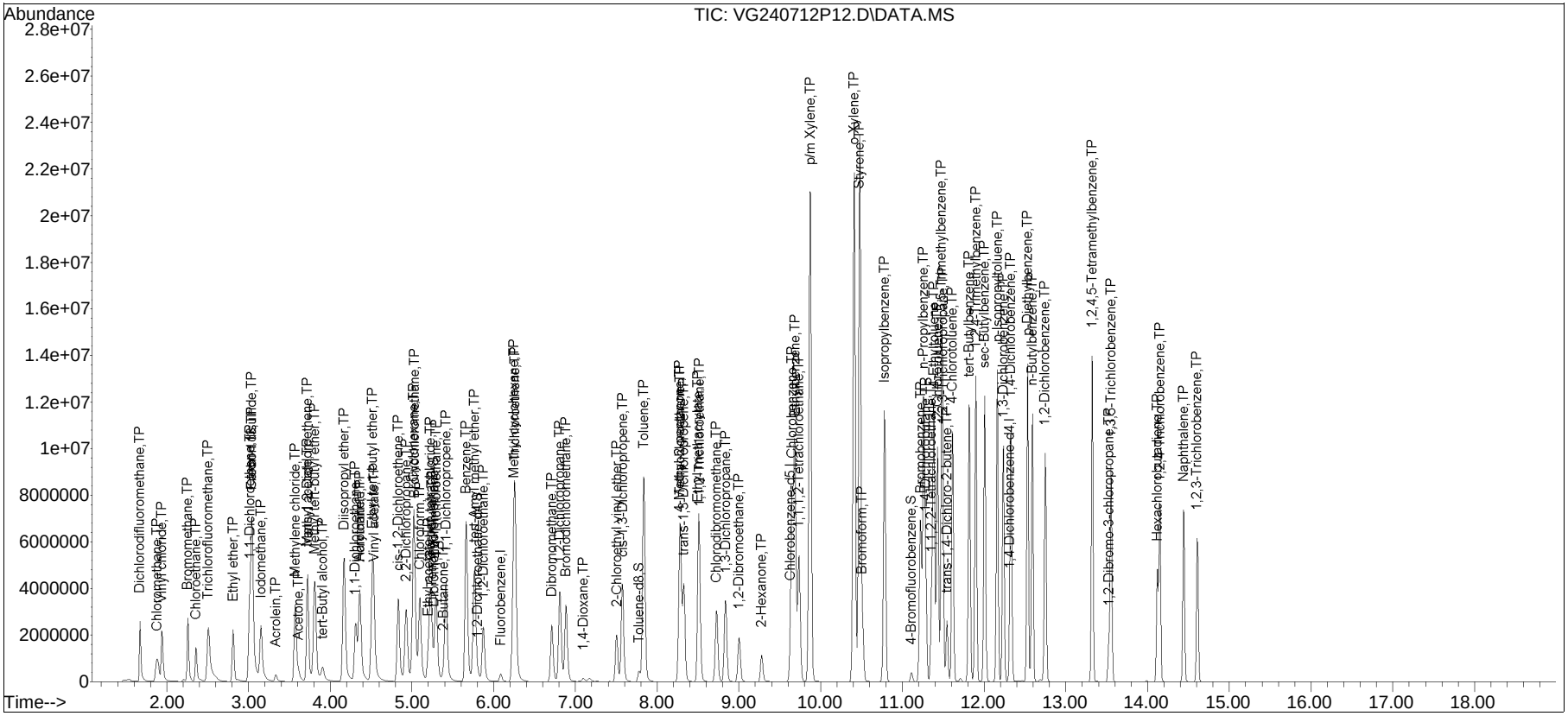
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P12.D
Acq On : 13 Jul 2024 12:56 am
Operator : GONZO:PID
Sample : I8260STD200PPB
Misc : WG1947004,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 09:38:33 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:36:56 2024
Response via : Initial Calibration

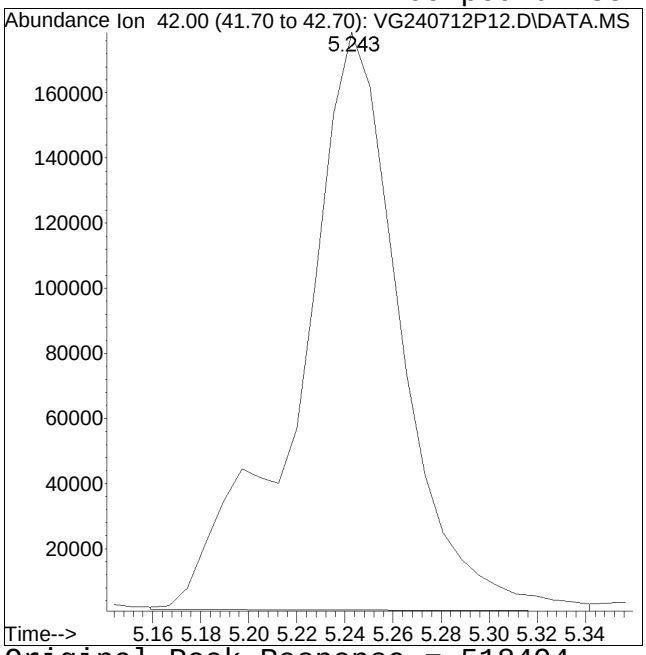
Sub List : 8260-Curve - Megamix plus DioxVG240712P08.D•



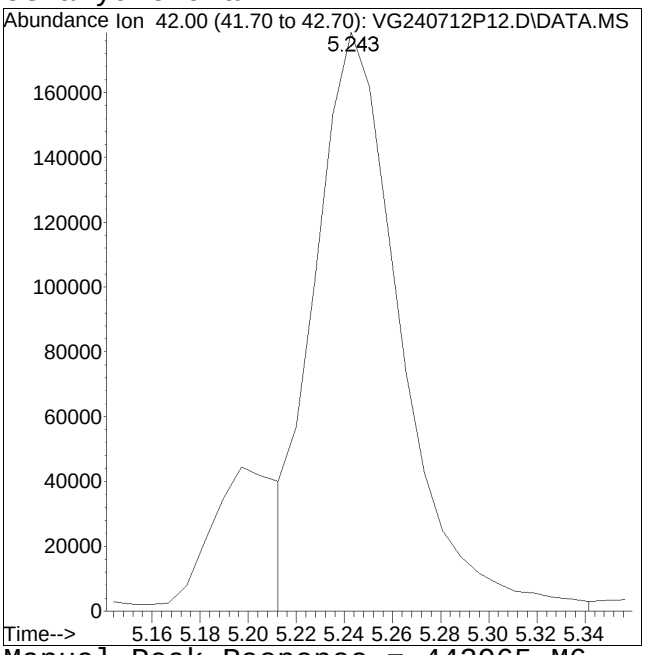
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P12.D Operator : GONZO:PID
Date Inj'd : 7/13/2024 12:56 am Instrument : Gonzo
Sample : I8260STD200PPB Quant Date : 7/15/2024 9:38 am

Compound #35: Tetrahydrofuran



Original Peak Response = 518494



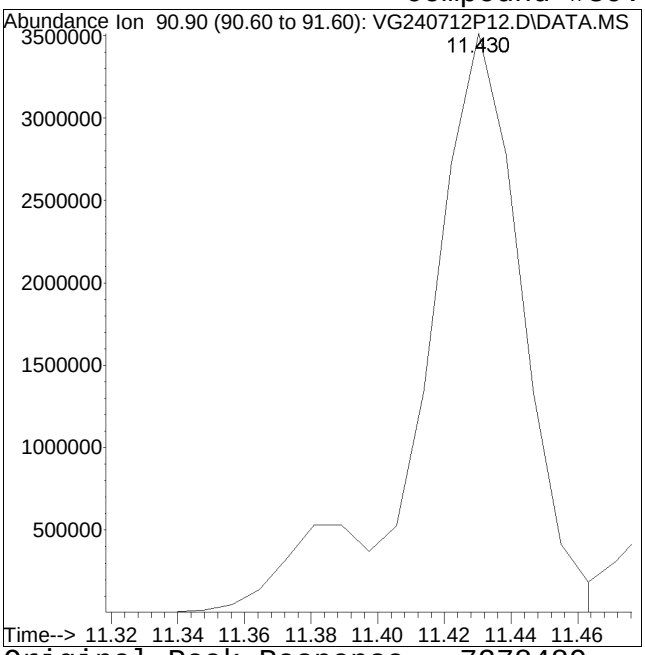
Manual Peak Response = 442965 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

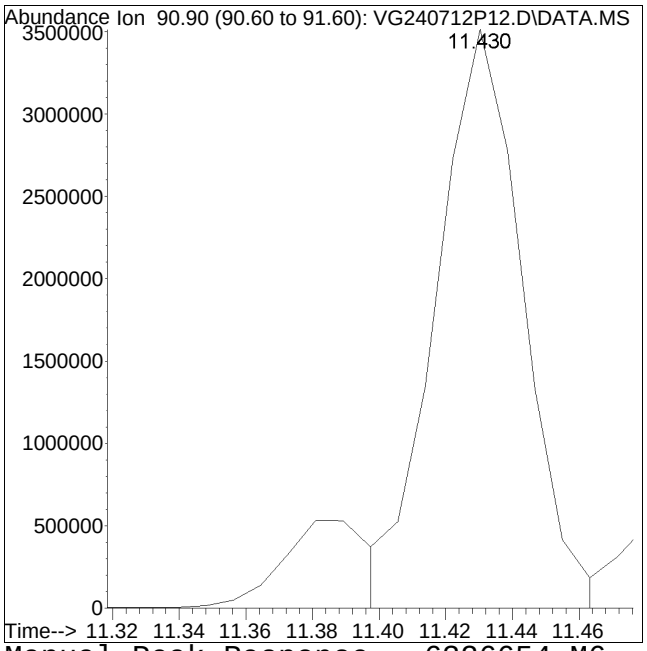
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P12.D Operator : GONZO:PID
Date Inj'd : 7/13/2024 12:56 am Instrument : Gonzo
Sample : I8260STD200PPB Quant Date : 7/15/2024 9:38 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 7278489



Manual Peak Response = 6326654 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P17.D
Acq On : 13 Jul 2024 2:55 am
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 15 09:47:19 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	100	0.00
2	TP	Dichlorodifluoromethane	0.265	0.246	7.2	84	0.00
3	TP	Chloromethane	0.227	0.260	-14.5	114	0.00
4	TP	Vinyl chloride	0.235	0.243	-3.4	93	0.00
5	TP	Bromomethane	0.125	0.212	-69.6#	172	0.00
6	TP	Chloroethane	0.180	0.196	-8.9	105	0.00
7	TP	Trichlorofluoromethane	0.345	0.344	0.3	101	0.00
8	TP	Ethyl ether	0.115	0.116	-0.9	102	0.00
10	TP	1,1-Dichloroethene	0.189	0.187	1.1	94	0.00
11	TP	Carbon disulfide	0.556	0.499	10.3	87	0.00
12	TP	Freon-113	0.208	0.195	6.2	91	0.00
13	TP	Iodomethane	0.365	0.234	35.9#	67	0.00
14	TP	Acrolein	0.033	0.022	33.3#	63	0.00
15	TP	Methylene chloride	0.224	0.220	1.8	98	0.00
17	TP	Acetone	* 10.000	9.753	2.5	107	0.00
18	TP	trans-1,2-Dichloroethene	0.207	0.205	1.0	94	0.00
19	TP	Methyl acetate	0.115	0.111	3.5	101	0.00
20	TP	Methyl tert-butyl ether	0.636	0.546	14.2	87	0.00
21	TP	tert-Butyl alcohol	0.018	0.018	0.0	102	0.00
22	TP	Diisopropyl ether	0.650	0.658	-1.2	99	0.00
23	TP	1,1-Dichloroethane	0.375	0.385	-2.7	98	0.00
24	TP	Halothane	0.172	0.169	1.7	94	0.00
25	TP	Acrylonitrile	0.058	0.053	8.6	91	0.00
26	TP	Ethyl tert-butyl ether	0.639	0.611	4.4	95	0.00
27	TP	Vinyl acetate	0.347	0.348	-0.3	94	0.00
28	TP	cis-1,2-Dichloroethene	0.238	0.242	-1.7	99	0.00
29	TP	2,2-Dichloropropane	0.313	0.278	11.2	87	0.00
30	TP	Bromochloromethane	0.116	0.113	2.6	94	0.00
31	TP	Cyclohexane	0.356	0.319	10.4	85	0.00
32	TP	Chloroform	0.384	0.402	-4.7	99	0.00
33	TP	Ethyl acetate	0.170	0.168	1.2	104	0.00
34	TP	Carbon tetrachloride	0.311	0.319	-2.6	93	0.00
35	TP	Tetrahydrofuran	0.056	0.054	3.6	93	0.00
36	S	Dibromofluoromethane	0.261	0.258	1.1	99	0.00
37	TP	1,1,1-Trichloroethane	0.354	0.365	-3.1	98	0.00
39	TP	2-Butanone	0.073	0.075	-2.7	104	0.00
40	TP	1,1-Dichloropropene	0.283	0.296	-4.6	100	0.00
41	TP	Benzene	0.857	0.889	-3.7	97	0.00
42	TP	tert-Amyl methyl ether	0.585	0.570	2.6	98	0.00

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P17.D
Acq On : 13 Jul 2024 2:55 am
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 15 09:47:19 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.277	0.297	-7.2	103	0.00
44	TP	1,2-Dichloroethane	0.273	0.285	-4.4	104	0.00
47	TP	Methyl cyclohexane	0.333	0.308	7.5	85	0.00
48	TP	Trichloroethene	0.242	0.245	-1.2	98	0.00
50	TP	Dibromomethane	0.135	0.137	-1.5	99	0.00
51	TP	1,2-Dichloropropane	0.209	0.217	-3.8	99	0.00
53	TP	2-Chloroethyl vinyl ether	0.126	0.109	13.5	90	0.00
54	TP	Bromodichloromethane	0.305	0.298#	2.3	95	0.00
57	TP	1,4-Dioxane	0.00213	0.00212#	0.5	105	0.00
58	TP	cis-1,3-Dichloropropene	0.341	0.350	-2.6	100	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
60	S	Toluene-d8	1.255	1.277	-1.8	101	0.00
61	TP	Toluene	0.695	0.721	-3.7	98	0.00
62	TP	4-Methyl-2-pentanone	0.077	0.078	-1.3	99	0.00
63	TP	Tetrachloroethene	0.305	0.310	-1.6	95	0.00
65	TP	trans-1,3-Dichloropropene	0.380	0.396	-4.2	100	0.00
67	TP	Ethyl methacrylate	0.320	0.313	2.2	97	0.00
68	TP	1,1,2-Trichloroethane	0.191	0.195#	-2.1	101	0.00
69	TP	Chlorodibromomethane	0.302	0.307	-1.7	98	0.00
70	TP	1,3-Dichloropropane	0.380	0.402	-5.8	101	0.00
71	TP	1,2-Dibromoethane	0.242	0.245	-1.2	100	0.00
72	TP	2-Hexanone	0.142	0.143	-0.7	106	0.00
73	TP	Chlorobenzene	0.775	0.821	-5.9	101	0.00
74	TP	Ethylbenzene	1.327	1.359	-2.4	97	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.288	0.307	-6.6	102	0.00
76	TP	p/m Xylene	0.525	0.552	-5.1	99	0.00
77	TP	o Xylene	0.508	0.530	-4.3	98	0.00
78	TP	Styrene	0.861	0.911	-5.8	101	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
80	TP	Bromoform	0.354	0.346	2.3	100	0.00
82	TP	Isopropylbenzene	2.237	2.332	-4.2	98	0.00
83	S	4-Bromofluorobenzene	0.835	0.818	2.0	101	0.00
84	TP	Bromobenzene	0.619	0.642	-3.7	101	0.00
85	TP	n-Propylbenzene	2.606	2.616	-0.4	96	0.00
86	TP	1,4-Dichlorobutane	0.718	0.708	1.4	99	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.497	0.510	-2.6	104	0.00
88	TP	4-Ethyltoluene	2.179	2.268	-4.1	99	0.00

Evaluate Continuing Calibration Report

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P17.D
Acq On : 13 Jul 2024 2:55 am
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 15 09:47:19 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene	1.598	1.654	-3.5	101	0.00
90 TP	1,3,5-Trimethylbenzene	1.929	1.994	-3.4	98	0.00
91 TP	1,2,3-Trichloropropane	0.416	0.415	0.2	100	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.114	0.107	6.1	104	0.00
93 TP	4-Chlorotoluene	1.645	1.750	-6.4	101	0.00
94 TP	tert-Butylbenzene	1.559	1.645	-5.5	98	0.00
97 TP	1,2,4-Trimethylbenzene	1.900	2.055	-8.2	102	0.00
98 TP	sec-Butylbenzene	2.217	2.267	-2.3	96	0.00
99 TP	p-Isopropyltoluene	1.925	2.004	-4.1	98	0.00
100 TP	1,3-Dichlorobenzene	1.136	1.229	-8.2	103	0.00
101 TP	1,4-Dichlorobenzene	1.170	1.242	-6.2	102	0.00
102 TP	p-Diethylbenzene	1.106	1.078	2.5	91	0.00
103 TP	n-Butylbenzene	1.522	1.638	-7.6	101	0.00
104 TP	1,2-Dichlorobenzene	1.084	1.160	-7.0	103	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.655	1.668	-0.8	100	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.092	0.096	-4.3	111	0.00
107 TP	1,3,5-Trichlorobenzene	0.713	0.707	0.8	96	0.00
108 TP	Hexachlorobutadiene	0.200	0.184	8.0	93	0.00
109 TP	1,2,4-Trichlorobenzene	0.618	0.609	1.5	99	0.00
110 TP	Naphthalene	1.387	1.373	1.0	105	0.00
111 TP	1,2,3-Trichlorobenzene	0.514	0.509	1.0	99	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 3 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P17.D
Acq On : 13 Jul 2024 2:55 am
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 15 09:47:19 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	355201	10.000	ug/L	0.00
Standard Area 1 = 354306			Recovery = 100.25%			
59) Chlorobenzene-d5	9.629	117	276630	10.000	ug/L	0.00
Standard Area 1 = 276985			Recovery = 99.87%			
79) 1,4-Dichlorobenzene-d4	12.311	152	160431	10.000	ug/L	0.00
Standard Area 1 = 160037			Recovery = 100.25%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	91568	9.870	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.70%			
43) 1,2-Dichloroethane-d4	5.805	65	105560	10.711	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.11%			
60) Toluene-d8	7.779	98	353216	10.171	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.71%			
83) 4-Bromofluorobenzene	11.110	95	131167	9.789	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.89%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	87365	9.264	ug/L	99
3) Chloromethane	1.885	50	92176	11.427	ug/L	99
4) Vinyl chloride	1.946	62	86491	10.349	ug/L	97
5) Bromomethane	2.257	94	75469	17.057	ug/L	93
6) Chloroethane	2.364	64	69571	10.889	ug/L	97
7) Trichlorofluoromethane	2.508	101	122027	9.959	ug/L	98
8) Ethyl ether	2.812	74	41081	10.099	ug/L	93
10) 1,1-Dichloroethene	3.009	96	66382	9.879	ug/L	99
11) Carbon disulfide	3.047	76	177336	8.974	ug/L	100
12) Freon-113	3.047	101	69376	9.410	ug/L	90
13) Iodomethane	3.154	142	83271	6.422	ug/L	96
14) Acrolein	3.344	56	7638	6.610	ug/L	97
15) Methylene chloride	3.579	84	78000	9.818	ug/L	96
17) Acetone	3.625	43	18260	9.753	ug/L	100
18) trans-1,2-Dichloroethene	3.724	96	72939	9.924	ug/L	94
19) Methyl acetate	3.731	43	39593	9.690	ug/L	99
20) Methyl tert-butyl ether	3.815	73	194005	8.584	ug/L	96
21) tert-Butyl alcohol	3.906	59	31230	49.804	ug/L	97
22) Diisopropyl ether	4.172	45	233777	10.128	ug/L	99
23) 1,1-Dichloroethane	4.309	63	136804	10.275	ug/L	98
24) Halothane	4.362	117	59863	9.806	ug/L	98

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P17.D
Acq On : 13 Jul 2024 2:55 am
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 15 09:47:19 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Acrylonitrile	4.369	53	18701	9.007	ug/L	97
26) Ethyl tert-butyl ether	4.521	59	217157	9.563	ug/L	97
27) Vinyl acetate	4.544	43	123564	10.016	ug/L	100
28) cis-1,2-Dichloroethene	4.833	96	86005	10.176	ug/L	93
29) 2,2-Dichloropropane	4.924	77	98778	8.899	ug/L	94
30) Bromochloromethane	5.030	128	40236	9.731	ug/L	97
31) Cyclohexane	5.023	56	113236	8.967	ug/L	89
32) Chloroform	5.099	83	142940	10.488	ug/L	99
33) Ethyl acetate	5.205	43	59660	9.887	ug/L	96
34) Carbon tetrachloride	5.228	117	113189	10.248	ug/L	98
35) Tetrahydrofuran	5.251	42	19334M6	9.783	ug/L	
37) 1,1,1-Trichloroethane	5.296	97	129507	10.303	ug/L	98
39) 2-Butanone	5.395	43	26613	10.330	ug/L	90
40) 1,1-Dichloropropene	5.418	75	105202	10.469	ug/L	99
41) Benzene	5.668	78	315948	10.383	ug/L	98
42) tert-Amyl methyl ether	5.767	73	202501	9.745	ug/L	98
44) 1,2-Dichloroethane	5.874	62	101162	10.431	ug/L	99
47) Methyl cyclohexane	6.246	83	109578	9.267	ug/L	91
48) Trichloroethene	6.261	95	87053	10.145	ug/L	99
50) Dibromomethane	6.709	93	48791	10.165	ug/L	97
51) 1,2-Dichloropropane	6.808	63	77021	10.373	ug/L	98
53) 2-Chloroethyl vinyl ether	7.507	63	38817	8.641	ug/L	99
54) Bromodichloromethane	6.884	83	105820	9.764	ug/L	99
57) 1,4-Dioxane	7.099	88	37634	498.294	ug/L	95
58) cis-1,3-Dichloropropene	7.579	75	124306	10.255	ug/L	97
61) Toluene	7.836	92	199542	10.379	ug/L	98
62) 4-Methyl-2-pentanone	8.273	58	21705	10.240	ug/L	98
63) Tetrachloroethene	8.288	166	85687	10.154	ug/L	97
65) trans-1,3-Dichloropropene	8.324	75	109467	10.400	ug/L	94
67) Ethyl methacrylate	8.510	69	86448	9.768	ug/L	97
68) 1,1,2-Trichloroethane	8.510	83	54047	10.245	ug/L	100
69) Chlorodibromomethane	8.725	129	84807	10.168	ug/L	98
70) 1,3-Dichloropropane	8.832	76	111331	10.589	ug/L	100
71) 1,2-Dibromoethane	9.004	107	67902	10.147	ug/L	99
72) 2-Hexanone	9.283	43	39496	10.047	ug/L	97
73) Chlorobenzene	9.645	112	227169	10.603	ug/L	99
74) Ethylbenzene	9.678	91	375983	10.243	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.736	131	84883	10.645	ug/L	96
76) p/m Xylene	9.867	106	305427	21.045	ug/L	100
77) o Xylene	10.402	106	293118	20.849	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P17.D
Acq On : 13 Jul 2024 2:55 am
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 15 09:47:19 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240712PICAL\VG240712P08.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.476	104	504179	21.162	ug/L		99
80) Bromoform	10.509	173	55431	9.753	ug/L		96
82) Isopropylbenzene	10.781	105	374070	10.422	ug/L		98
84) Bromobenzene	11.225	156	103042	10.384	ug/L		100
85) n-Propylbenzene	11.258	91	419745	10.039	ug/L		99
86) 1,4-Dichlorobutane	11.282	55	113635	9.870	ug/L		100
87) 1,1,2,2-Tetrachloroethane	11.356	83	81821	10.257	ug/L		97
88) 4-Ethyltoluene	11.381	105	363815	10.409	ug/L		99
89) 2-Chlorotoluene	11.430	91	265430M1	10.352	ug/L		
90) 1,3,5-Trimethylbenzene	11.480	105	319940	10.341	ug/L		99
91) 1,2,3-Trichloropropane	11.496	75	66579M1	9.980	ug/L		
92) trans-1,4-Dichloro-2-b...	11.546	53	17125	9.363	ug/L	#	90
93) 4-Chlorotoluene	11.611	91	280755	10.636	ug/L		97
94) tert-Butylbenzene	11.817	119	263971	10.556	ug/L		100
97) 1,2,4-Trimethylbenzene	11.899	105	329670	10.815	ug/L		99
98) sec-Butylbenzene	12.006	105	363744	10.226	ug/L		100
99) p-Isopropyltoluene	12.154	119	321524	10.413	ug/L		99
100) 1,3-Dichlorobenzene	12.237	146	197162	10.815	ug/L		99
101) 1,4-Dichlorobenzene	12.327	146	199238	10.611	ug/L		99
102) p-Diethylbenzene	12.533	119	173022	9.755	ug/L		98
103) n-Butylbenzene	12.590	91	262856	10.765	ug/L		100
104) 1,2-Dichlorobenzene	12.747	146	186115	10.703	ug/L		100
105) 1,2,4,5-Tetramethylben...	13.323	119	267638	10.081	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.528	155	15353	10.377	ug/L		97
107) 1,3,5-Trichlorobenzene	13.553	180	113458	9.912	ug/L		99
108) Hexachlorobutadiene	14.120	225	29501	9.199	ug/L		97
109) 1,2,4-Trichlorobenzene	14.153	180	97695	9.856	ug/L		99
110) Naphthalene	14.441	128	220203	9.897	ug/L		100
111) 1,2,3-Trichlorobenzene	14.606	180	81692	9.912	ug/L		98

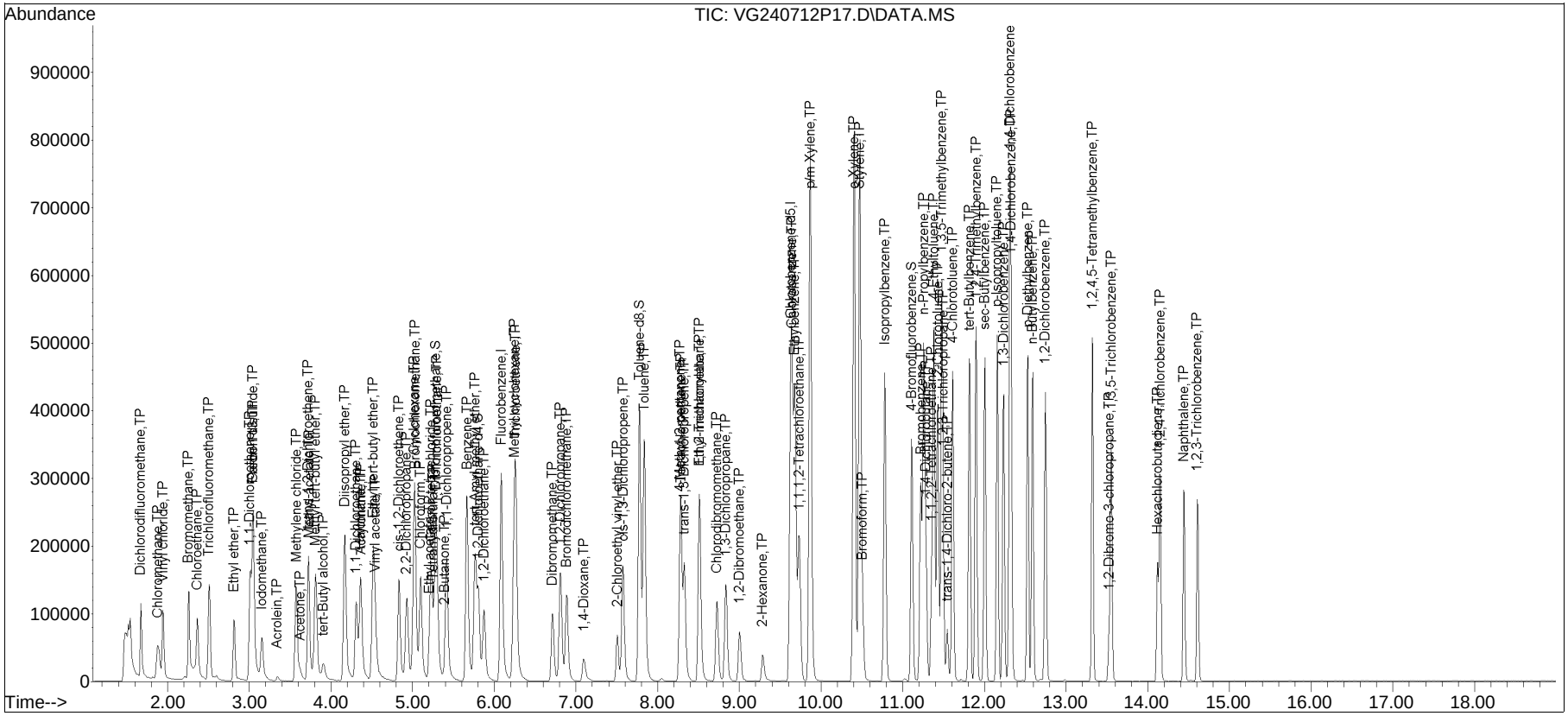
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240712PICAL\
Data File : VG240712P17.D
Acq On : 13 Jul 2024 2:55 am
Operator : GONZO:PID
Sample : C8260STD10PPB
Misc : WG1947004,ICAL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 15 09:47:19 2024
Quant Method : K:\Gonzo\2024\240712PICAL\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

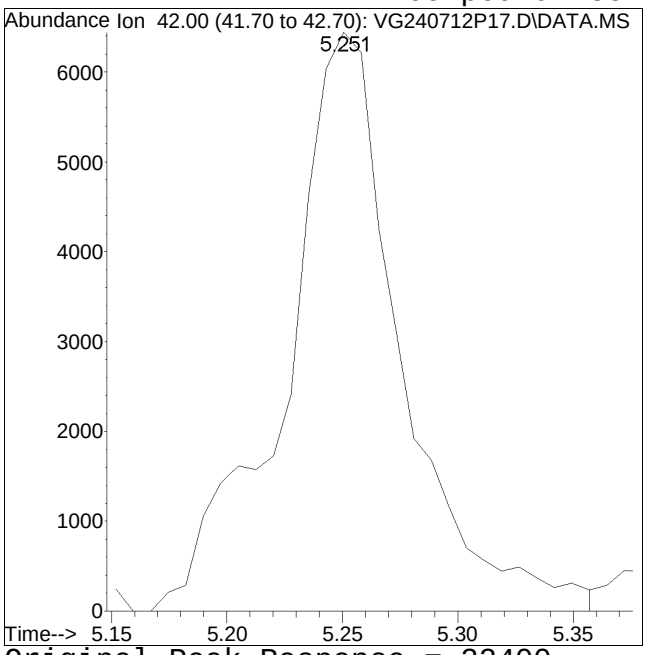
Sub List : 8260-Curve - Megamix plus DioxVG240712P08.D•



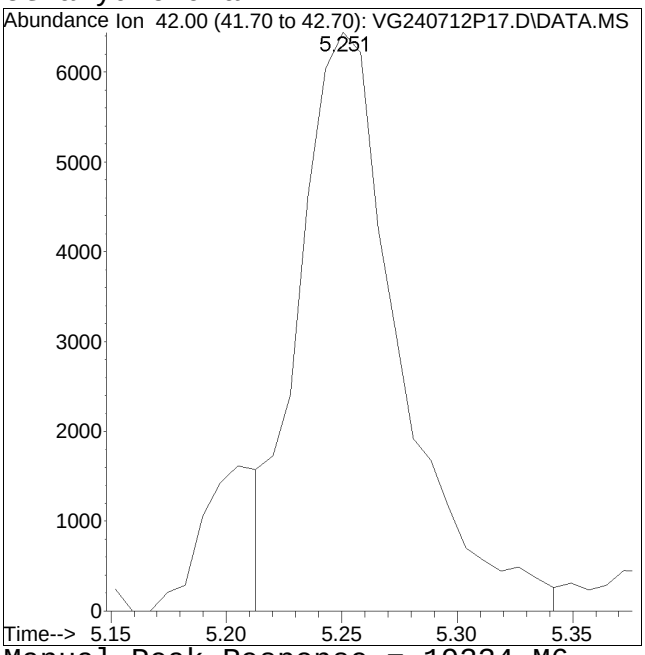
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P17.D Operator : GONZO:PID
Date Inj'd : 7/13/2024 2:55 am Instrument : Gonzo
Sample : C8260STD10PPB Quant Date : 7/15/2024 9:45 am

Compound #35: Tetrahydrofuran



Original Peak Response = 22400



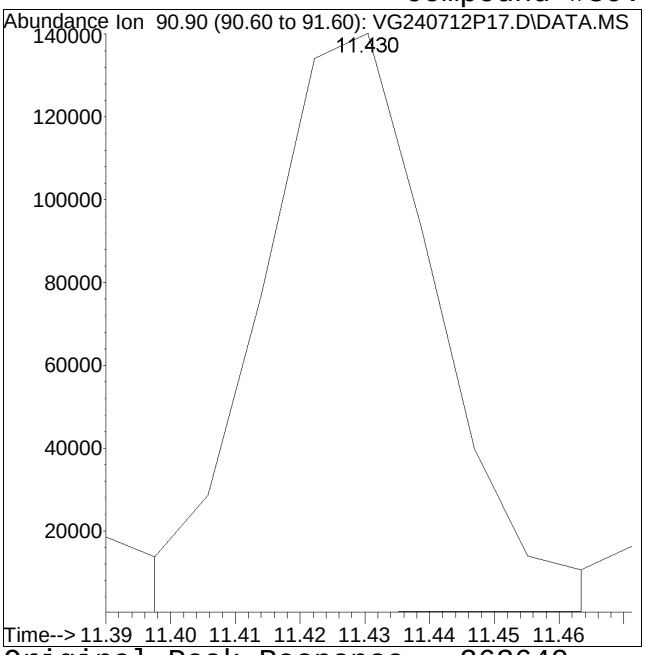
Manual Peak Response = 19334 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

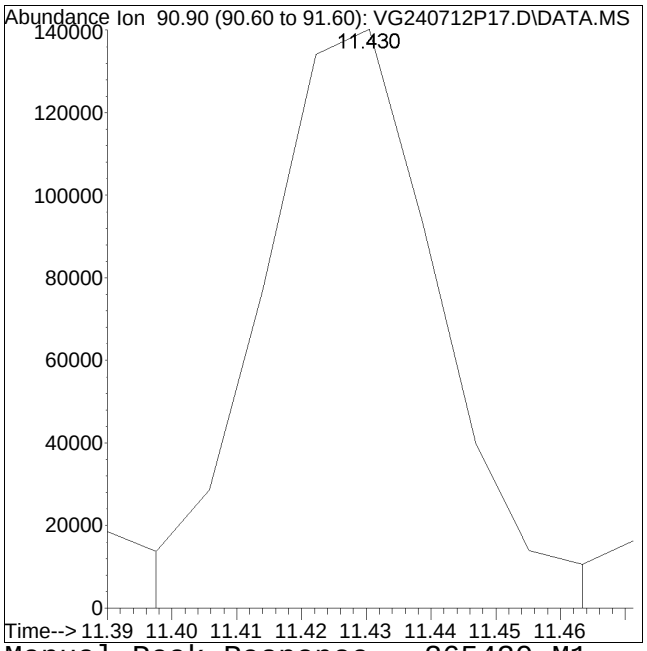
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P17.D Operator : GONZO:PID
Date Inj'd : 7/13/2024 2:55 am Instrument : Gonzo
Sample : C8260STD10PPB Quant Date : 7/15/2024 9:45 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 263640



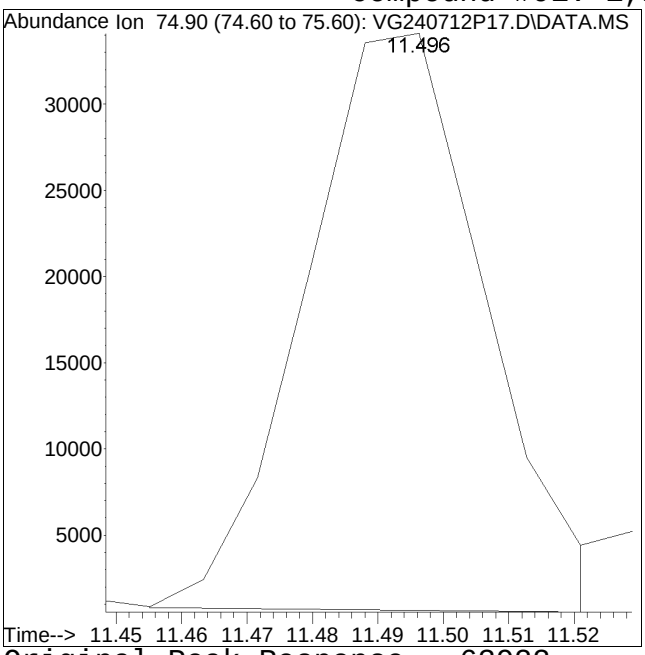
Manual Peak Response = 265430 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

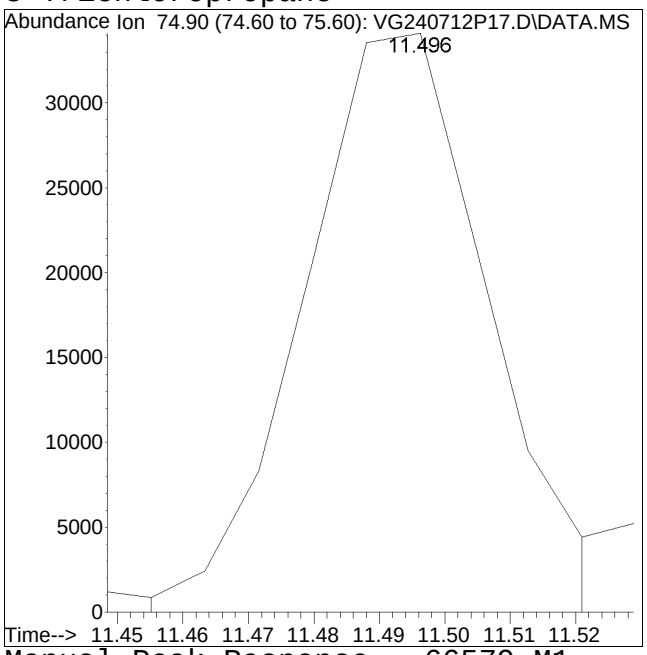
Manual Integration Report

Data Path : K:\Gonzo\2024\240712PICAL\QMethod : G_240712P_8260.m
Data File : VG240712P17.D Operator : GONZO:PID
Date Inj'd : 7/13/2024 2:55 am Instrument : Gonzo
Sample : C8260STD10PPB Quant Date : 7/15/2024 9:45 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 63922



Manual Peak Response = 66579 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Relative Error Report Gonzo

Method Path : K:\Gonzo\2024\240712PICAL\
Method File : G_240712P_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Jul 15 09:43:32 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
17	TP Acetone	L	ug/L	10.0	9.058	-9.4	2.00	2.221	11.1

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
17	TP Acetone	Linear	0.990142	0.000000	0.0484088	0.00419312

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: GONZO	**Calibration Date**	: 09/24/24 19:17		
Lab File ID	: VG240924N01	**Init. Calib. Date(s)**	: 07/12/24	07/13/24	
Sample No	: WG1976114-2	**Init. Calib. Times**	: 21:20	00:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	67	0
Dichlorodifluoromethane	0.265	0.323	-	-21.9*	20	74	0
Chloromethane	0.227	0.239	-	-5.3	20	70	0
Vinyl chloride	0.235	0.271	-	-15.3	20	69	0
Bromomethane	0.125	0.077	-	38.4*	20	41	0
Chloroethane	0.18	0.251	-	-39.4*	20	89	0
Trichlorofluoromethane	0.345	0.372	-	-7.8	20	73	0
Ethyl ether	0.115	0.099	-	13.9	20	58	0
1,1-Dichloroethene	0.189	0.18	-	4.8	20	60	0
Carbon disulfide	0.556	0.588	-	-5.8	20	69	0
Freon-113	0.208	0.218	-	-4.8	20	68	0
Iodomethane	0.365	0.172	-	52.9*	20	33	0
Acrolein	0.033	0.024	-	27.3*	20	47	0
Methylene chloride	0.224	0.207	-	7.6	20	62	0
Acetone	10	7.929	-	20.7*	20	59	0
trans-1,2-Dichloroethene	0.207	0.191	-	7.7	20	59	0
Methyl acetate	0.115	0.098	-	14.8	20	59	0
Methyl tert-butyl ether	0.636	0.532	-	16.4	20	57	0
tert-Butyl alcohol	0.018	0.012	-	33.3*	20	48	0
Diisopropyl ether	0.65	0.651	-	-0.2	20	65	0
1,1-Dichloroethane	0.375	0.377	-	-0.5	20	64	0
Halothane	0.172	0.157	-	8.7	20	58	0
Acrylonitrile	0.058	0.058	-	0	20	67	0
Ethyl tert-butyl ether	0.639	0.558	-	12.7	20	58	0
Vinyl acetate	0.347	0.484	-	-39.5*	20	88	0
cis-1,2-Dichloroethene	0.238	0.206	-	13.4	20	56	0
2,2-Dichloropropane	0.313	0.303	-	3.2	20	63	0
Bromochloromethane	0.116	0.107	-	7.8	20	59	0
Cyclohexane	0.356	0.378	-	-6.2	20	68	0
Chloroform	0.384	0.366	-	4.7	20	60	0
Ethyl acetate	0.17	0.162	-	4.7	20	67	0
Carbon tetrachloride	0.311	0.301	-	3.2	20	58	0
Tetrahydrofuran	0.056	0.054	-	3.6	20	62	0
Dibromofluoromethane	0.261	0.254	-	2.7	20	65	0
1,1,1-Trichloroethane	0.354	0.335	-	5.4	20	60	0
2-Butanone	0.073	0.07	-	4.1	20	65	0
1,1-Dichloropropene	0.283	0.279	-	1.4	20	63	0
Benzene	0.857	0.849	-	0.9	20	62	0
tert-Amyl methyl ether	0.585	0.472	-	19.3	20	54	0
1,2-Dichloroethane-d4	0.277	0.324	-	-17	20	75	0
1,2-Dichloroethane	0.273	0.292	-	-7	20	71	0
Methyl cyclohexane	0.333	0.323	-	3	20	59	0
Trichloroethene	0.242	0.227	-	6.2	20	61	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: GONZO	**Calibration Date**	: 09/24/24 19:17		
Lab File ID	: VG240924N01	**Init. Calib. Date(s)**	: 07/12/24	07/13/24	
Sample No	: WG1976114-2	**Init. Calib. Times**	: 21:20	00:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Dibromomethane	0.135	0.127	-	5.9	20	61	0
1,2-Dichloropropane	0.209	0.208	-	0.5	20	63	0
Bromodichloromethane	0.305	0.292*	-	4.3	20	62	0
1,4-Dioxane	0.00213	0.0011*	-	48.4*	20	36	0
cis-1,3-Dichloropropene	0.341	0.3	-	12	20	58	0
Chlorobenzene-d5	1	1	-	0	20	67	0
Toluene-d8	1.255	1.285	-	-2.4	20	68	0
Toluene	0.695	0.674	-	3	20	62	0
4-Methyl-2-pentanone	0.077	0.065	-	15.6	20	56	0
Tetrachloroethene	0.305	0.28	-	8.2	20	58	0
trans-1,3-Dichloropropene	0.38	0.335	-	11.8	20	57	0
Ethyl methacrylate	0.32	0.255	-	20.3*	20	54	0
1,1,2-Trichloroethane	0.191	0.188*	-	1.6	20	65	0
Chlorodibromomethane	0.302	0.273	-	9.6	20	59	0
1,3-Dichloropropane	0.38	0.38	-	0	20	64	0
1,2-Dibromoethane	0.242	0.212	-	12.4	20	58	0
2-Hexanone	0.142	0.103	-	27.5*	20	52	0
Chlorobenzene	0.775	0.757	-	2.3	20	63	0
Ethylbenzene	1.327	1.29	-	2.8	20	62	0
1,1,1,2-Tetrachloroethane	0.288	0.263	-	8.7	20	59	0
p/m Xylene	0.525	0.506	-	3.6	20	61	0
o Xylene	0.508	0.498	-	2	20	62	0
Styrene	0.861	0.831	-	3.5	20	62	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	67	0
Bromoform	0.354	0.281	-	20.6*	20	55	0
Isopropylbenzene	2.237	2.182	-	2.5	20	62	0
4-Bromofluorobenzene	0.835	0.786	-	5.9	20	65	0
Bromobenzene	0.619	0.552	-	10.8	20	58	0
n-Propylbenzene	2.606	2.637	-	-1.2	20	65	0
1,4-Dichlorobutane	0.718	0.766	-	-6.7	20	71	0
1,1,2,2-Tetrachloroethane	0.497	0.503	-	-1.2	20	68	0
4-Ethyltoluene	2.179	2.139	-	1.8	20	62	0
2-Chlorotoluene	1.598	1.548	-	3.1	20	63	0
1,3,5-Trimethylbenzene	1.929	1.895	-	1.8	20	62	0
1,2,3-Trichloropropane	0.416	0.387	-	7	20	62	0
trans-1,4-Dichloro-2-buten	0.114	0.086	-	24.6*	20	55	0
4-Chlorotoluene	1.645	1.609	-	2.2	20	62	0
tert-Butylbenzene	1.559	1.476	-	5.3	20	59	0
1,2,4-Trimethylbenzene	1.9	1.835	-	3.4	20	61	0
sec-Butylbenzene	2.217	2.187	-	1.4	20	62	0
p-Isopropyltoluene	1.925	1.819	-	5.5	20	60	0
1,3-Dichlorobenzene	1.136	1.103	-	2.9	20	62	0
1,4-Dichlorobenzene	1.17	1.159	-	0.9	20	64	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: GONZO	**Calibration Date**	: 09/24/24 19:17		
Lab File ID	: VG240924N01	**Init. Calib. Date(s)**	: 07/12/24	07/13/24	
Sample No	: WG1976114-2	**Init. Calib. Times**	: 21:20	00:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.106	1.03	-	6.9	20	58	0
n-Butylbenzene	1.522	1.577	-	-3.6	20	65	0
1,2-Dichlorobenzene	1.084	1.003	-	7.5	20	59	0
1,2,4,5-Tetramethylbenzene	1.655	1.317	-	20.4*	20	53	0
1,2-Dibromo-3-chloropropan	0.092	0.063	-	31.5*	20	48	0
1,3,5-Trichlorobenzene	0.713	0.638	-	10.5	20	58	0
Hexachlorobutadiene	0.2	0.178	-	11	20	60	0
1,2,4-Trichlorobenzene	0.618	0.486	-	21.4*	20	53	0
Naphthalene	1.387	0.882	-	36.4*	20	45	0
1,2,3-Trichlorobenzene	0.514	0.371*	-	27.8*	20	48	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Acq On : 24 Sep 2024 7:17 pm
Operator : GONZO:MAG
Sample : WG1976114-2
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 20:02:40 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	67	0.00
2	TP	Dichlorodifluoromethane	0.265	0.323	-21.9#	74	0.00
3	TP	Chloromethane	0.227	0.239	-5.3	70	0.00
4	TP	Vinyl chloride	0.235	0.271	-15.3	69	0.00
5	TP	Bromomethane	0.125	0.077	38.4#	41#	0.00
6	TP	Chloroethane	0.180	0.251	-39.4#	89	0.00
7	TP	Trichlorofluoromethane	0.345	0.372	-7.8	73	0.00
8	TP	Ethyl ether	0.115	0.099	13.9	58	0.00
10	TP	1,1-Dichloroethene	0.189	0.180	4.8	60	0.00
11	TP	Carbon disulfide	0.556	0.588	-5.8	69	0.00
12	TP	Freon-113	0.208	0.218	-4.8	68	0.00
13	TP	Iodomethane	0.365	0.172	52.9#	33#	0.00
14	TP	Acrolein	0.033	0.024	27.3#	47#	0.00
15	TP	Methylene chloride	0.224	0.207	7.6	62	0.00
17	TP	Acetone	* 10.000	7.929	20.7#	59	0.00
18	TP	trans-1,2-Dichloroethene	0.207	0.191	7.7	59	0.00
19	TP	Methyl acetate	0.115	0.098	14.8	59	0.00
20	TP	Methyl tert-butyl ether	0.636	0.532	16.4	57	0.00
21	TP	tert-Butyl alcohol	0.018	0.012	33.3#	48#	0.00
22	TP	Diisopropyl ether	0.650	0.651	-0.2	65	0.00
23	TP	1,1-Dichloroethane	0.375	0.377	-0.5	64	0.00
24	TP	Halothane	0.172	0.157	8.7	58	0.00
25	TP	Acrylonitrile	0.058	0.058	0.0	67	0.00
26	TP	Ethyl tert-butyl ether	0.639	0.558	12.7	58	0.00
27	TP	Vinyl acetate	0.347	0.484	-39.5#	88	0.00
28	TP	cis-1,2-Dichloroethene	0.238	0.206	13.4	56	0.00
29	TP	2,2-Dichloropropane	0.313	0.303	3.2	63	0.00
30	TP	Bromochloromethane	0.116	0.107	7.8	59	0.00
31	TP	Cyclohexane	0.356	0.378	-6.2	68	0.00
32	TP	Chloroform	0.384	0.366	4.7	60	0.00
33	TP	Ethyl acetate	0.170	0.162	4.7	67	0.00
34	TP	Carbon tetrachloride	0.311	0.301	3.2	58	0.00
35	TP	Tetrahydrofuran	0.056	0.054	3.6	62	0.00
36	S	Dibromofluoromethane	0.261	0.254	2.7	65	0.00
37	TP	1,1,1-Trichloroethane	0.354	0.335	5.4	60	0.00
39	TP	2-Butanone	0.073	0.070	4.1	65	0.00
40	TP	1,1-Dichloropropene	0.283	0.279	1.4	63	0.00
41	TP	Benzene	0.857	0.849	0.9	62	0.00
42	TP	tert-Amyl methyl ether	0.585	0.472	19.3	54	0.00

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Acq On : 24 Sep 2024 7:17 pm
Operator : GONZO:MAG
Sample : WG1976114-2
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 20:02:40 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.277	0.324	-17.0	75	0.00
44	TP	1,2-Dichloroethane	0.273	0.292	-7.0	71	0.00
47	TP	Methyl cyclohexane	0.333	0.323	3.0	59	0.00
48	TP	Trichloroethene	0.242	0.227	6.2	61	0.00
50	TP	Dibromomethane	0.135	0.127	5.9	61	0.00
51	TP	1,2-Dichloropropane	0.209	0.208	0.5	63	0.00
54	TP	Bromodichloromethane	0.305	0.292#	4.3	62	0.00
57	TP	1,4-Dioxane	0.00213	0.00110#	48.4#	36#	0.00
58	TP	cis-1,3-Dichloropropene	0.341	0.300	12.0	58	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
60	S	Toluene-d8	1.255	1.285	-2.4	68	0.00
61	TP	Toluene	0.695	0.674	3.0	62	0.00
62	TP	4-Methyl-2-pentanone	0.077	0.065	15.6	56	0.00
63	TP	Tetrachloroethene	0.305	0.280	8.2	58	0.00
65	TP	trans-1,3-Dichloropropene	0.380	0.335	11.8	57	0.00
67	TP	Ethyl methacrylate	0.320	0.255	20.3#	54	0.00
68	TP	1,1,2-Trichloroethane	0.191	0.188#	1.6	65	0.00
69	TP	Chlorodibromomethane	0.302	0.273	9.6	59	0.00
70	TP	1,3-Dichloropropane	0.380	0.380	0.0	64	0.00
71	TP	1,2-Dibromoethane	0.242	0.212	12.4	58	0.00
72	TP	2-Hexanone	0.142	0.103	27.5#	52	0.00
73	TP	Chlorobenzene	0.775	0.757	2.3	63	0.00
74	TP	Ethylbenzene	1.327	1.290	2.8	62	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.288	0.263	8.7	59	0.00
76	TP	p/m Xylene	0.525	0.506	3.6	61	0.00
77	TP	o Xylene	0.508	0.498	2.0	62	0.00
78	TP	Styrene	0.861	0.831	3.5	62	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	67	0.00
80	TP	Bromoform	0.354	0.281	20.6#	55	0.00
82	TP	Isopropylbenzene	2.237	2.182	2.5	62	0.00
83	S	4-Bromofluorobenzene	0.835	0.786	5.9	65	0.00
84	TP	Bromobenzene	0.619	0.552	10.8	58	0.00
85	TP	n-Propylbenzene	2.606	2.637	-1.2	65	0.00
86	TP	1,4-Dichlorobutane	0.718	0.766	-6.7	71	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.497	0.503	-1.2	68	0.00
88	TP	4-Ethyltoluene	2.179	2.139	1.8	62	0.00
89	TP	2-Chlorotoluene	1.598	1.548	3.1	63	0.00

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Acq On : 24 Sep 2024 7:17 pm
Operator : GONZO:MAG
Sample : WG1976114-2
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 20:02:40 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	1.929	1.895	1.8	62	0.00
91 TP	1,2,3-Trichloropropane	0.416	0.387	7.0	62	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.114	0.086	24.6#	55	0.00
93 TP	4-Chlorotoluene	1.645	1.609	2.2	62	0.00
94 TP	tert-Butylbenzene	1.559	1.476	5.3	59	0.00
97 TP	1,2,4-Trimethylbenzene	1.900	1.835	3.4	61	0.00
98 TP	sec-Butylbenzene	2.217	2.187	1.4	62	0.00
99 TP	p-Isopropyltoluene	1.925	1.819	5.5	60	0.00
100 TP	1,3-Dichlorobenzene	1.136	1.103	2.9	62	0.00
101 TP	1,4-Dichlorobenzene	1.170	1.159	0.9	64	0.00
102 TP	p-Diethylbenzene	1.106	1.030	6.9	58	0.00
103 TP	n-Butylbenzene	1.522	1.577	-3.6	65	0.00
104 TP	1,2-Dichlorobenzene	1.084	1.003	7.5	59	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.655	1.317	20.4#	53	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.092	0.063	31.5#	48#	0.00
107 TP	1,3,5-Trichlorobenzene	0.713	0.638	10.5	58	0.00
108 TP	Hexachlorobutadiene	0.200	0.178	11.0	60	0.00
109 TP	1,2,4-Trichlorobenzene	0.618	0.486	21.4#	53	0.00
110 TP	Naphthalene	1.387	0.882	36.4#	45#	0.00
111 TP	1,2,3-Trichlorobenzene	0.514	0.371#	27.8#	48#	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 4 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Acq On : 24 Sep 2024 7:17 pm
Operator : GONZO:MAG
Sample : WG1976114-2
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 20:02:40 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	237313	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 100.00%			
59) Chlorobenzene-d5	9.629	117	186402	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.311	152	107273	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.273	113	60284	9.726	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.26%			
43) 1,2-Dichloroethane-d4	5.805	65	76921	11.682	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.82%			
60) Toluene-d8	7.779	98	239459	10.233	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.33%			
83) 4-Bromofluorobenzene	11.110	95	84269	9.405	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.05%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	76676	12.170	ug/L	97
3) Chloromethane	1.893	50	56794	10.538	ug/L	97
4) Vinyl chloride	1.946	62	64286	11.514	ug/L	99
5) Bromomethane	2.257	94	18203	6.158	ug/L	99
6) Chloroethane	2.371	64	59466	13.931	ug/L	95
7) Trichlorofluoromethane	2.515	101	88224	10.777	ug/L	98
8) Ethyl ether	2.819	74	23501	8.647	ug/L #	73
10) 1,1-Dichloroethene	3.017	96	42614	9.493	ug/L #	80
11) Carbon disulfide	3.047	76	139503	10.566	ug/L	100
12) Freon-113	3.047	101	51718	10.500	ug/L	81
13) Iodomethane	3.154	142	40702	4.698	ug/L	95
14) Acrolein	3.344	56	5668	7.342	ug/L	92
15) Methylene chloride	3.571	84	49155	9.261	ug/L	79
17) Acetone	3.625	43	10104	7.929	ug/L	93
18) trans-1,2-Dichloroethene	3.723	96	45374	9.240	ug/L	88
19) Methyl acetate	3.739	43	23363	8.558	ug/L	94
20) Methyl tert-butyl ether	3.815	73	126366	8.369	ug/L #	87
21) tert-Butyl alcohol	3.913	59	14719	35.133	ug/L #	85
22) Diisopropyl ether	4.172	45	154542	10.021	ug/L	93
23) 1,1-Dichloroethane	4.308	63	89482	10.060	ug/L	98
24) Halothane	4.362	117	37300	9.145	ug/L	97

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Acq On : 24 Sep 2024 7:17 pm
Operator : GONZO:MAG
Sample : WG1976114-2
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 20:02:40 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.369	53	13760	9.920	ug/L		96
26) Ethyl tert-butyl ether	4.521	59	132509	8.734	ug/L	#	80
27) Vinyl acetate	4.544	43	114934	13.944	ug/L		98
28) cis-1,2-Dichloroethene	4.833	96	48811	8.644	ug/L		89
29) 2,2-Dichloropropane	4.924	77	71946	9.701	ug/L		90
30) Bromochloromethane	5.030	128	25465	9.218	ug/L	#	79
31) Cyclohexane	5.023	56	89588	10.618	ug/L		78
32) Chloroform	5.099	83	86773	9.530	ug/L	#	94
33) Ethyl acetate	5.205	43	38353	9.514	ug/L		96
34) Carbon tetrachloride	5.228	117	71366	9.671	ug/L	#	95
35) Tetrahydrofuran	5.250	42	12907M6	9.775	ug/L		
37) 1,1,1-Trichloroethane	5.296	97	79482	9.465	ug/L		94
39) 2-Butanone	5.395	43	16582M4	9.634	ug/L		
40) 1,1-Dichloropropene	5.418	75	66305	9.876	ug/L		98
41) Benzene	5.661	78	201386	9.906	ug/L		95
42) tert-Amyl methyl ether	5.767	73	111991	8.067	ug/L	#	89
44) 1,2-Dichloroethane	5.873	62	69283	10.693	ug/L		98
47) Methyl cyclohexane	6.246	83	76591	9.695	ug/L	#	81
48) Trichloroethene	6.268	95	53762	9.378	ug/L		94
50) Dibromomethane	6.717	93	30243	9.431	ug/L		92
51) 1,2-Dichloropropane	6.808	63	49364	9.951	ug/L		96
54) Bromodichloromethane	6.884	83	69203	9.557	ug/L		97
57) 1,4-Dioxane	7.099	88	13107	259.753	ug/L		87
58) cis-1,3-Dichloropropene	7.571	75	71249	8.798	ug/L	#	89
61) Toluene	7.836	92	125728	9.705	ug/L		95
62) 4-Methyl-2-pentanone	8.280	58	12140	8.500	ug/L	#	83
63) Tetrachloroethene	8.288	166	52130	9.167	ug/L		91
65) trans-1,3-Dichloropropene	8.331	75	62505	8.813	ug/L		94
67) Ethyl methacrylate	8.510	69	47595	7.981	ug/L		95
68) 1,1,2-Trichloroethane	8.517	83	35010	9.849	ug/L		98
69) Chlorodibromomethane	8.725	129	50904	9.057	ug/L		96
70) 1,3-Dichloropropane	8.839	76	70878	10.004	ug/L		99
71) 1,2-Dibromoethane	9.004	107	39564	8.774	ug/L		99
72) 2-Hexanone	9.290	43	19272	7.276	ug/L		94
73) Chlorobenzene	9.645	112	141188	9.779	ug/L		98
74) Ethylbenzene	9.678	91	240408	9.720	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.736	131	49099	9.138	ug/L		98
76) p/m Xylene	9.867	106	188776	19.303	ug/L		98
77) o Xylene	10.410	106	185532	19.585	ug/L		100
78) Styrene	10.476	104	309869	19.302	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Acq On : 24 Sep 2024 7:17 pm
Operator : GONZO:MAG
Sample : WG1976114-2
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 20:02:40 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	10.509	173	30097	7.919	ug/L		98
82) Isopropylbenzene	10.780	105	234042	9.752	ug/L		97
84) Bromobenzene	11.225	156	59207	8.924	ug/L		98
85) n-Propylbenzene	11.258	91	282906	10.120	ug/L		97
86) 1,4-Dichlorobutane	11.282	55	82220	10.680	ug/L		98
87) 1,1,2,2-Tetrachloroethane	11.356	83	53907	10.107	ug/L		97
88) 4-Ethyltoluene	11.381	105	229429	9.817	ug/L		97
89) 2-Chlorotoluene	11.430	91	166068	9.686	ug/L		100
90) 1,3,5-Trimethylbenzene	11.480	105	203300	9.827	ug/L		97
91) 1,2,3-Trichloropropane	11.496	75	41559	9.317	ug/L		97
92) trans-1,4-Dichloro-2-b...	11.546	53	9173	7.501	ug/L	#	95
93) 4-Chlorotoluene	11.611	91	172613	9.780	ug/L		99
94) tert-Butylbenzene	11.817	119	158343	9.470	ug/L		96
97) 1,2,4-Trimethylbenzene	11.899	105	196798	9.656	ug/L		97
98) sec-Butylbenzene	12.006	105	234557	9.862	ug/L		99
99) p-Isopropyltoluene	12.163	119	195172	9.453	ug/L		98
100) 1,3-Dichlorobenzene	12.237	146	118278	9.703	ug/L		99
101) 1,4-Dichlorobenzene	12.327	146	124322	9.902	ug/L		99
102) p-Diethylbenzene	12.533	119	110487	9.316	ug/L		98
103) n-Butylbenzene	12.590	91	169171	10.362	ug/L		96
104) 1,2-Dichlorobenzene	12.747	146	107593	9.253	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.322	119	141249	7.956	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.528	155	6714	6.787	ug/L		94
107) 1,3,5-Trichlorobenzene	13.553	180	68458	8.944	ug/L		97
108) Hexachlorobutadiene	14.120	225	19140	8.926	ug/L		99
109) 1,2,4-Trichlorobenzene	14.153	180	52138	7.867	ug/L		98
110) Naphthalene	14.449	128	94604	6.359	ug/L		100
111) 1,2,3-Trichlorobenzene	14.614	180	39817	7.225	ug/L		97

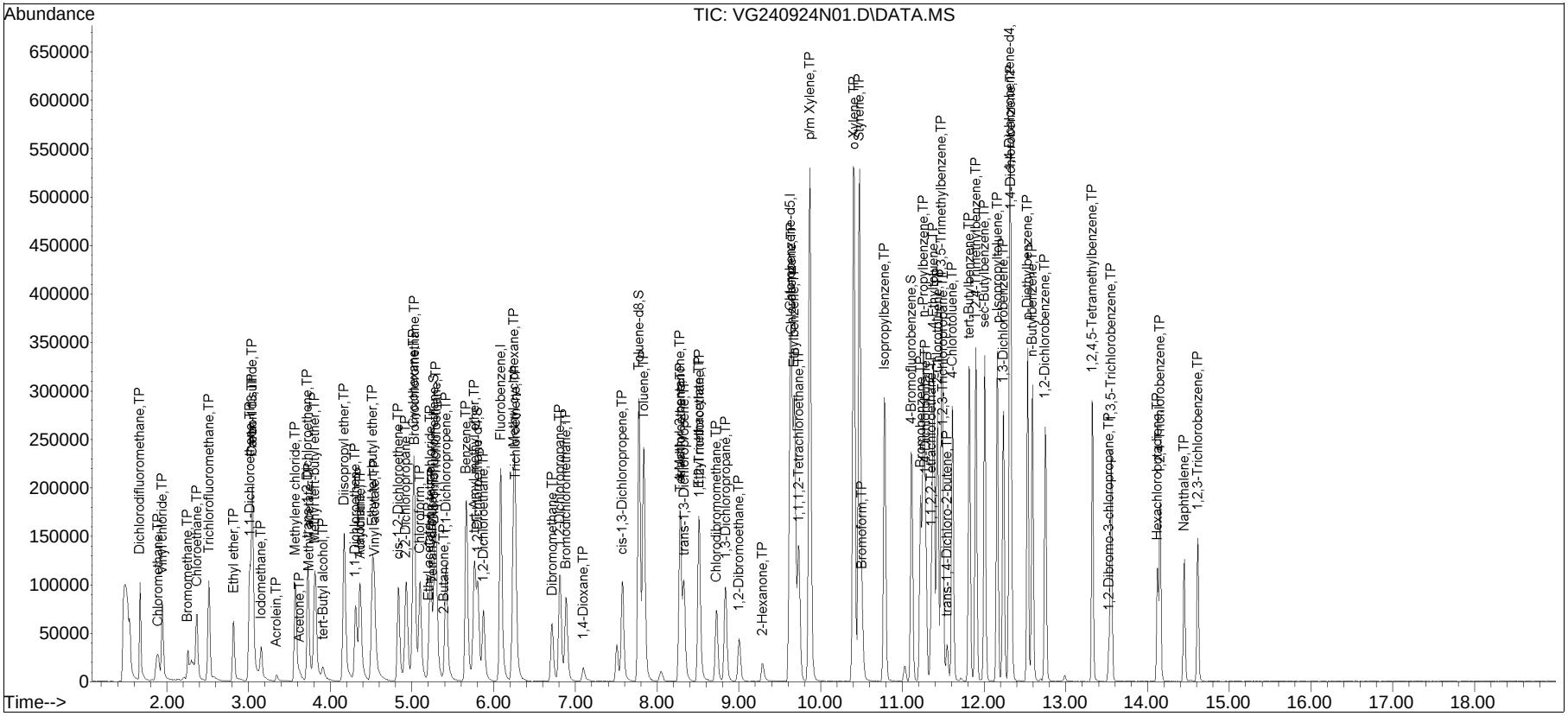
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Acq On : 24 Sep 2024 7:17 pm
Operator : GONZO:MAG
Sample : WG1976114-2
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 20:02:40 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

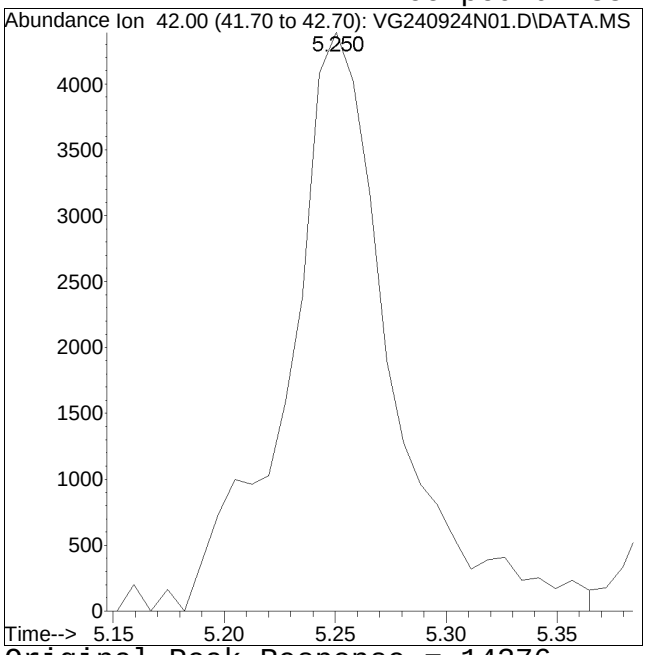
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•



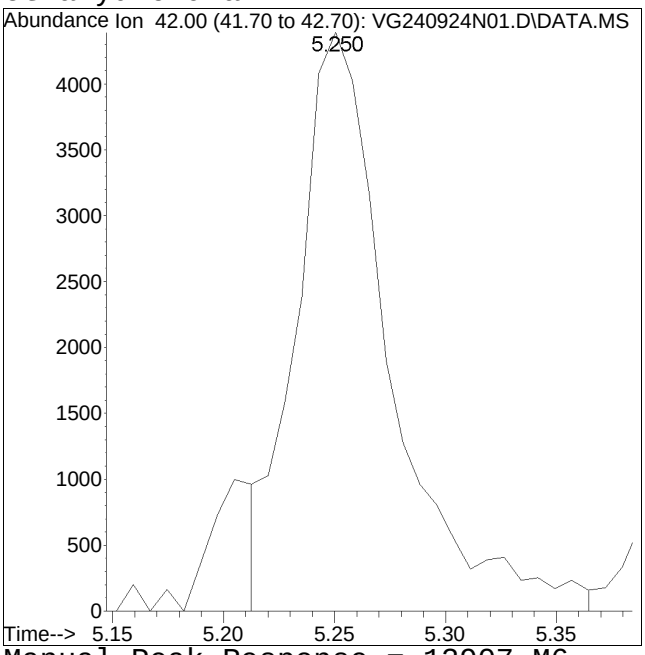
Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N01.D	Operator	: GONZO:MAG
Date Inj'd	: 9/24/2024 7:17 pm	Instrument	: Gonzo
Sample	: WG1976114-2	Quant Date	: 9/24/2024 8:01 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 14376



Manual Peak Response = 12907 M6

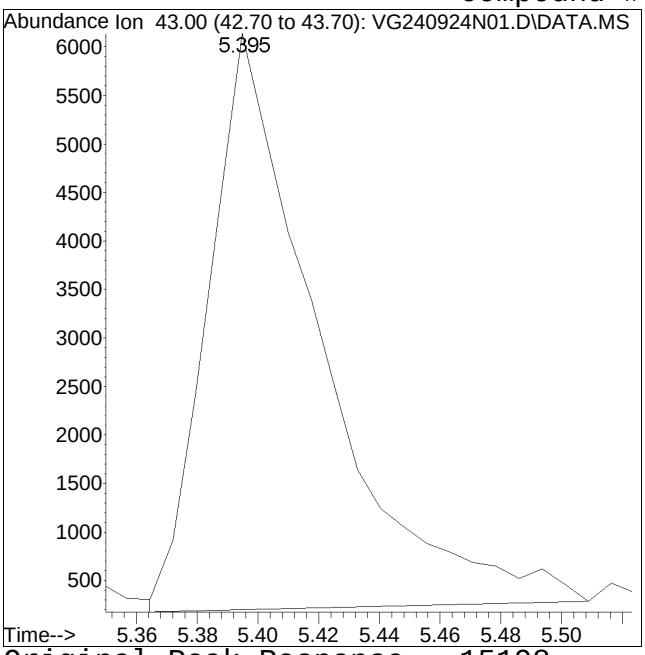
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

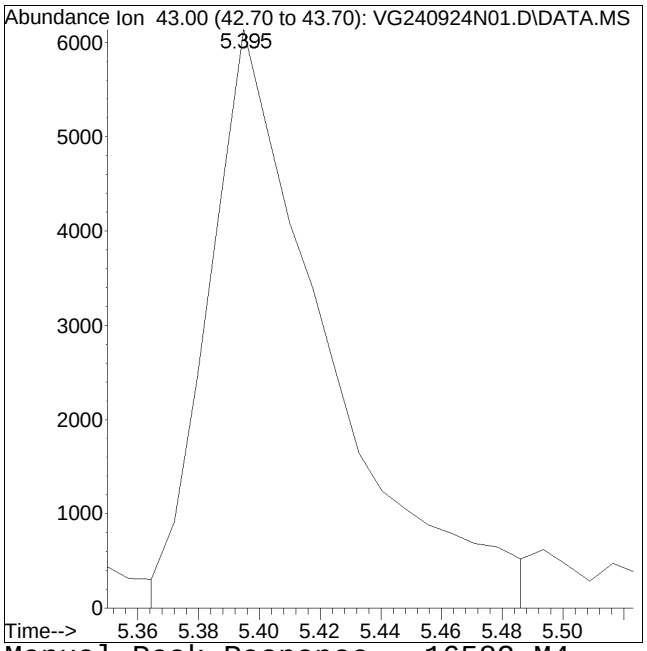
Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Date Inj'd : 9/24/2024 7:17 pm
Sample : WG1976114-2

QMethod : G_240712P_8260.m
Operator : GONZO:MAG
Instrument : Gonzo
Quant Date : 9/24/2024 8:01 pm

Compound #39: 2-Butanone



Original Peak Response = 15198



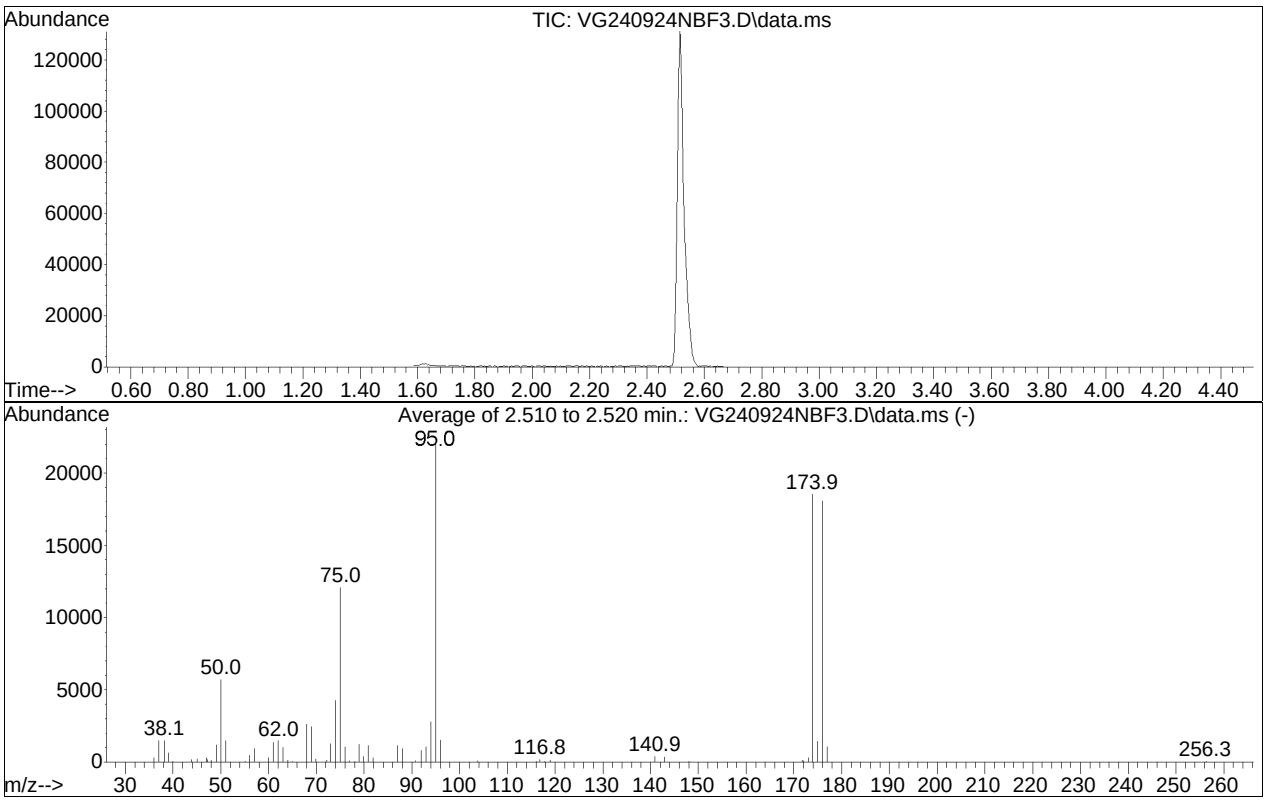
Manual Peak Response = 16582 M4

M4 = Poor automated baseline construction.

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924NBF3.D
Acq On : 24 Sep 2024 6:59 pm
Operator : GONZO:MAG
Sample : WG1976114-1
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Jul 15 09:43:32 2024



Spectrum Information: Average of 2.510 to 2.520 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.8	5699	PASS
75	95	30	60	54.7	12089	PASS
95	95	100	100	100.0	22107	PASS
96	95	5	9	6.9	1515	PASS
173	174	0.00	2	1.6	299	PASS
174	95	50	100	83.8	18534	PASS
175	174	5	9	7.7	1424	PASS
176	174	95	101	97.6	18082	PASS
177	176	5	9	5.9	1070	PASS

Volatiles Raw QC Data

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N05.D
Acq On : 24 Sep 2024 8:52 pm
Operator : GONZO:MAG
Sample : WG1976114-5,31,10,10
Misc : WG1976114,ICAL21287
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 22:18:11 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	224824	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 94.74%			
59) Chlorobenzene-d5	9.629	117	163197	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 87.55%			
79) 1,4-Dichlorobenzene-d4	12.319	152	84922	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 79.16%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	60858	10.364	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.64%			
43) 1,2-Dichloroethane-d4	5.805	65	71279	11.426	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.26%			
60) Toluene-d8	7.779	98	210238	10.262	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.62%			
83) 4-Bromofluorobenzene	11.118	95	69953	9.863	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D. d		
3) Chloromethane	1.900	50	69	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.280	94	422	0.151	ug/L	83
6) Chloroethane	2.371	64	79	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.040	76	878	0.070	ug/L #	73
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.572	84	92	N.D.		
17) Acetone	3.837	43	77	Below Cal #		47
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	4.969	56	84	N.D.		
32) Chloroform	5.083	83	105	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT/LSC Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N05.D
Acq On : 24 Sep 2024 8:52 pm
Operator : GONZO:MAG
Sample : WG1976114-5,31,10,10
Misc : WG1976114,ICAL21287
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 22:18:11 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	5.402	97	85	N.D.		
39)	2-Butanone	5.532	43	73	N.D.		
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.	d	
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	0.000		0	N.D.	d	
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	0.000		0	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	8.488	166	83	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	9.629	112	112	N.D.		
74)	Ethylbenzene	9.621	91	161	N.D.		
76)	p/m Xylene	9.900	106	78	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	10.632	173	96	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	12.319	146	267	N.D.		
101)	1,4-Dichlorobenzene	12.319	146	267	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	14.622	180	91	N.D.		

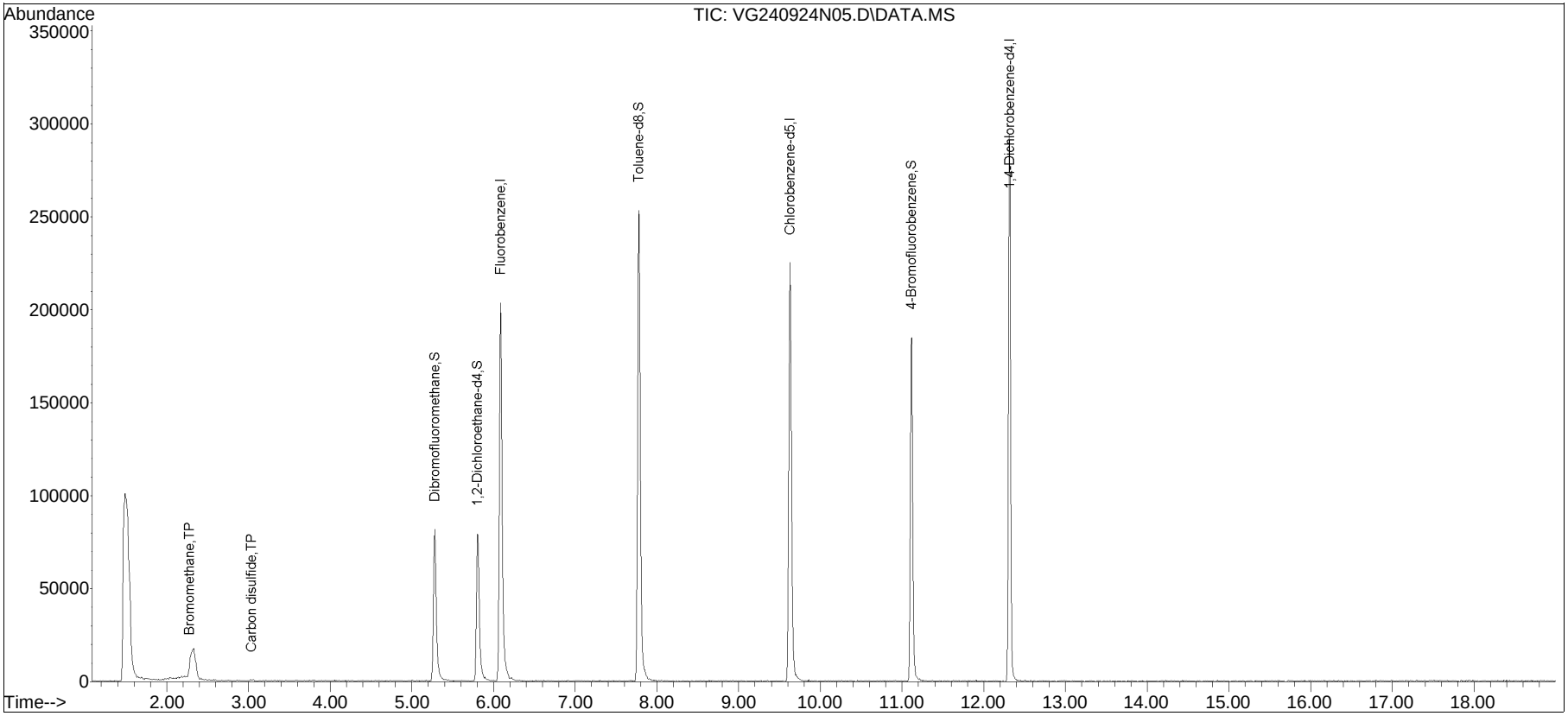
(#) = qualifier out of range (m) = manual integration (+) = signals summed

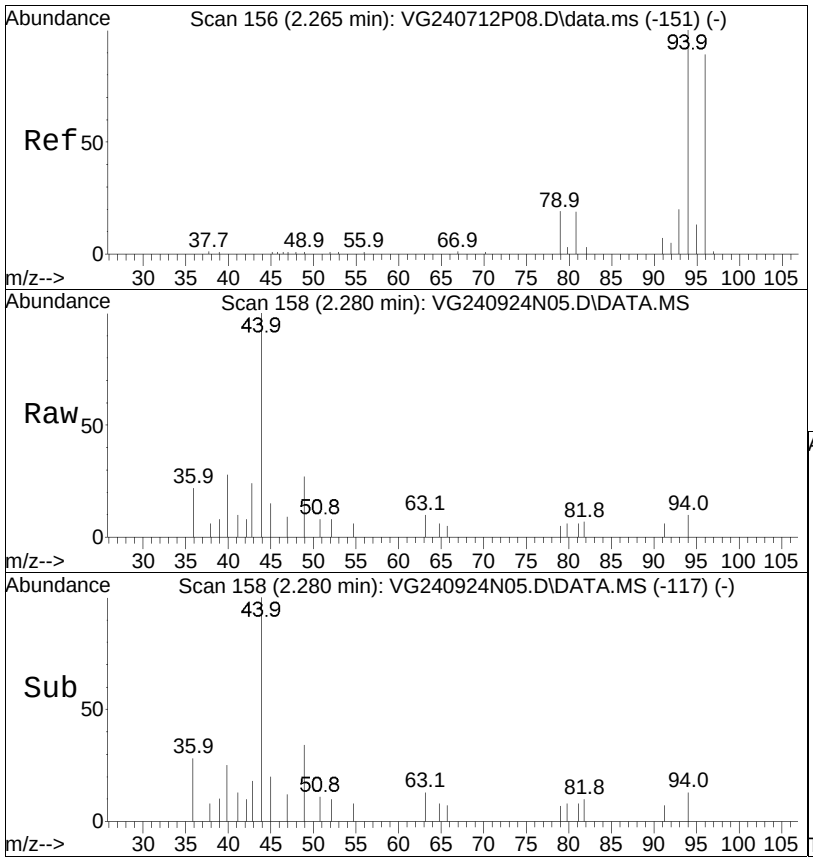
Quantitation Report (QT/LSC Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N05.D
Acq On : 24 Sep 2024 8:52 pm
Operator : GONZO:MAG
Sample : WG1976114-5,31,10,10
Misc : WG1976114,ICAL21287
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 24 22:18:11 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

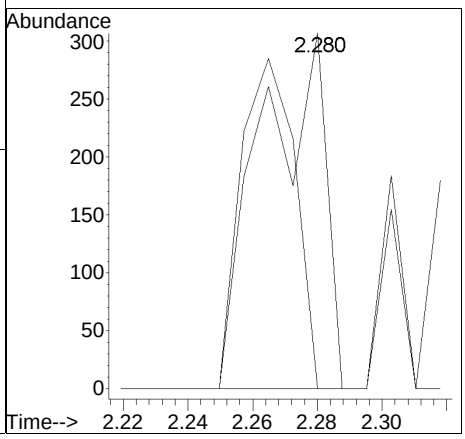


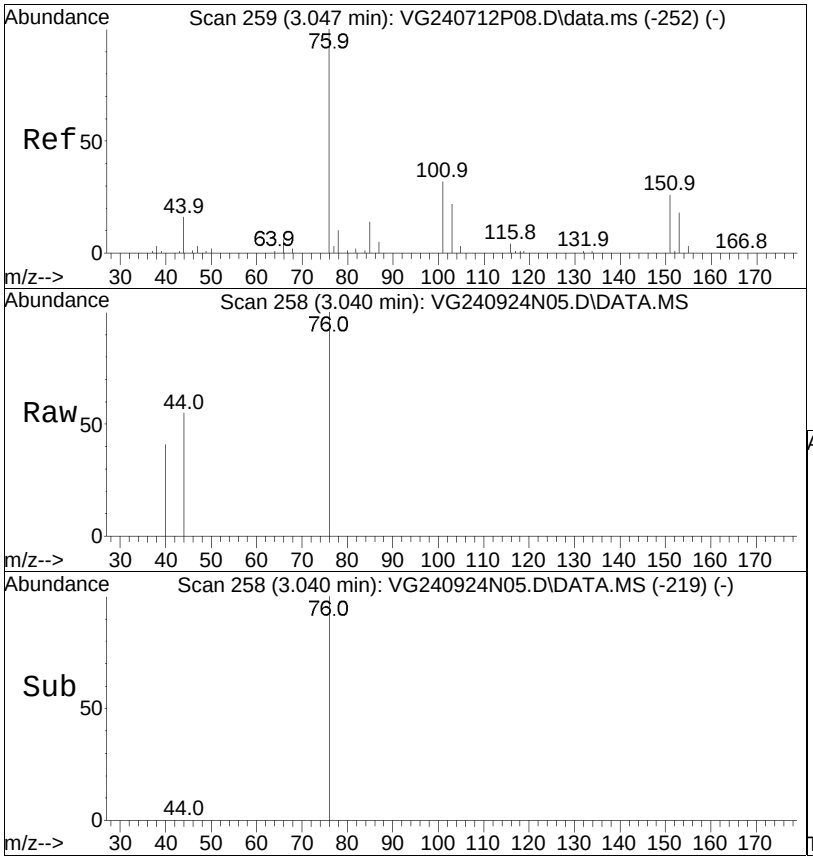


#5
Bromomethane
Concen: 0.15 ug/L
RT: 2.280 min Scan# 158
Delta R.T. 0.015 min
Lab File: VG240924N05.D
Acq: 24 Sep 2024 8:52 pm

Tgt Ion: 94 Resp: 422

Ion	Ratio	Lower	Upper
94	100		
96	78.2	75.2	115.2

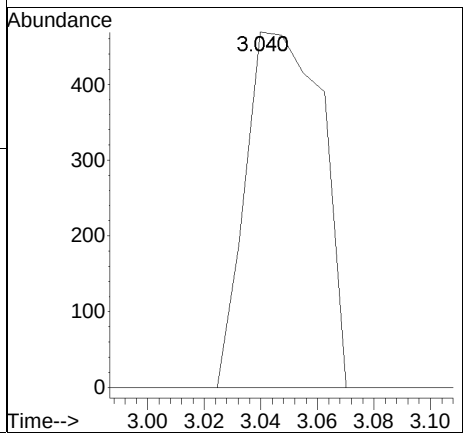




#11
Carbon disulfide
Concen: 0.07 ug/L
RT: 3.040 min Scan# 258
Delta R.T. -0.007 min
Lab File: VG240924N05.D
Acq: 24 Sep 2024 8:52 pm

Tgt Ion: 76 Resp: 878

Ion	Ratio	Lower	Upper
76	100		
78	0.0	6.6	13.6#



Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N05.D	Operator	: GONZO:MAG
Date Inj'd	: 9/24/2024 8:52 pm	Instrument	: Gonzo
Sample	: WG1976114-5,31,10,10	Quant Date	: 9/24/2024 10:17 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Acq On : 24 Sep 2024 7:17 pm
Operator : GONZO:MAG
Sample : WG1976114-3,31,10,10
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 20:02:40 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	237313	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 100.00%			
59) Chlorobenzene-d5	9.629	117	186402	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.311	152	107273	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.273	113	60284	9.726	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.26%			
43) 1,2-Dichloroethane-d4	5.805	65	76921	11.682	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.82%			
60) Toluene-d8	7.779	98	239459	10.233	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.33%			
83) 4-Bromofluorobenzene	11.110	95	84269	9.405	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.05%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	76676	12.170	ug/L	97
3) Chloromethane	1.893	50	56794	10.538	ug/L	97
4) Vinyl chloride	1.946	62	64286	11.514	ug/L	99
5) Bromomethane	2.257	94	18203	6.158	ug/L	99
6) Chloroethane	2.371	64	59466	13.931	ug/L	95
7) Trichlorofluoromethane	2.515	101	88224	10.777	ug/L	98
10) 1,1-Dichloroethene	3.017	96	42614	9.493	ug/L #	80
11) Carbon disulfide	3.047	76	139503	10.566	ug/L	100
12) Freon-113	3.047	101	51718	10.500	ug/L	81
15) Methylene chloride	3.571	84	49155	9.261	ug/L	79
17) Acetone	3.625	43	10104	7.929	ug/L	93
18) trans-1,2-Dichloroethene	3.723	96	45374	9.240	ug/L	88
19) Methyl acetate	3.739	43	23363	8.558	ug/L	94
20) Methyl tert-butyl ether	3.815	73	126366	8.369	ug/L #	87
23) 1,1-Dichloroethane	4.308	63	89482	10.060	ug/L	98
28) cis-1,2-Dichloroethene	4.833	96	48811	8.644	ug/L	89
30) Bromochloromethane	5.030	128	25465	9.218	ug/L #	79
31) Cyclohexane	5.023	56	89588	10.618	ug/L	78
32) Chloroform	5.099	83	86773	9.530	ug/L #	94
34) Carbon tetrachloride	5.228	117	71366	9.671	ug/L #	95

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Acq On : 24 Sep 2024 7:17 pm
Operator : GONZO:MAG
Sample : WG1976114-3,31,10,10
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 20:02:40 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.296	97	79482	9.465	ug/L		94
39) 2-Butanone	5.395	43	16582M4	9.634	ug/L		
41) Benzene	5.661	78	201386	9.906	ug/L		95
44) 1,2-Dichloroethane	5.873	62	69283	10.693	ug/L		98
47) Methyl cyclohexane	6.246	83	76591	9.695	ug/L	#	81
48) Trichloroethene	6.268	95	53762	9.378	ug/L		94
51) 1,2-Dichloropropane	6.808	63	49364	9.951	ug/L		96
54) Bromodichloromethane	6.884	83	69203	9.557	ug/L		97
58) cis-1,3-Dichloropropene	7.571	75	71249	8.798	ug/L	#	89
61) Toluene	7.836	92	125728	9.705	ug/L		95
62) 4-Methyl-2-pentanone	8.280	58	12140	8.500	ug/L	#	83
63) Tetrachloroethene	8.288	166	52130	9.167	ug/L		91
65) trans-1,3-Dichloropropene	8.331	75	62505	8.813	ug/L		94
68) 1,1,2-Trichloroethane	8.517	83	35010	9.849	ug/L		98
69) Chlorodibromomethane	8.725	129	50904	9.057	ug/L		96
71) 1,2-Dibromoethane	9.004	107	39564	8.774	ug/L		99
72) 2-Hexanone	9.290	43	19272	7.276	ug/L		94
73) Chlorobenzene	9.645	112	141188	9.779	ug/L		98
74) Ethylbenzene	9.678	91	240408	9.720	ug/L		99
76) p/m Xylene	9.867	106	188776	19.303	ug/L		98
77) o Xylene	10.410	106	185532	19.585	ug/L		100
78) Styrene	10.476	104	309869	19.302	ug/L		96
80) Bromoform	10.509	173	30097	7.919	ug/L		98
82) Isopropylbenzene	10.780	105	234042	9.752	ug/L		97
87) 1,1,2,2-Tetrachloroethane	11.356	83	53907	10.107	ug/L		97
100) 1,3-Dichlorobenzene	12.237	146	118278	9.703	ug/L		99
101) 1,4-Dichlorobenzene	12.327	146	124322	9.902	ug/L		99
104) 1,2-Dichlorobenzene	12.747	146	107593	9.253	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.528	155	6714	6.787	ug/L		94
109) 1,2,4-Trichlorobenzene	14.153	180	52138	7.867	ug/L		98
111) 1,2,3-Trichlorobenzene	14.614	180	39817	7.225	ug/L		97

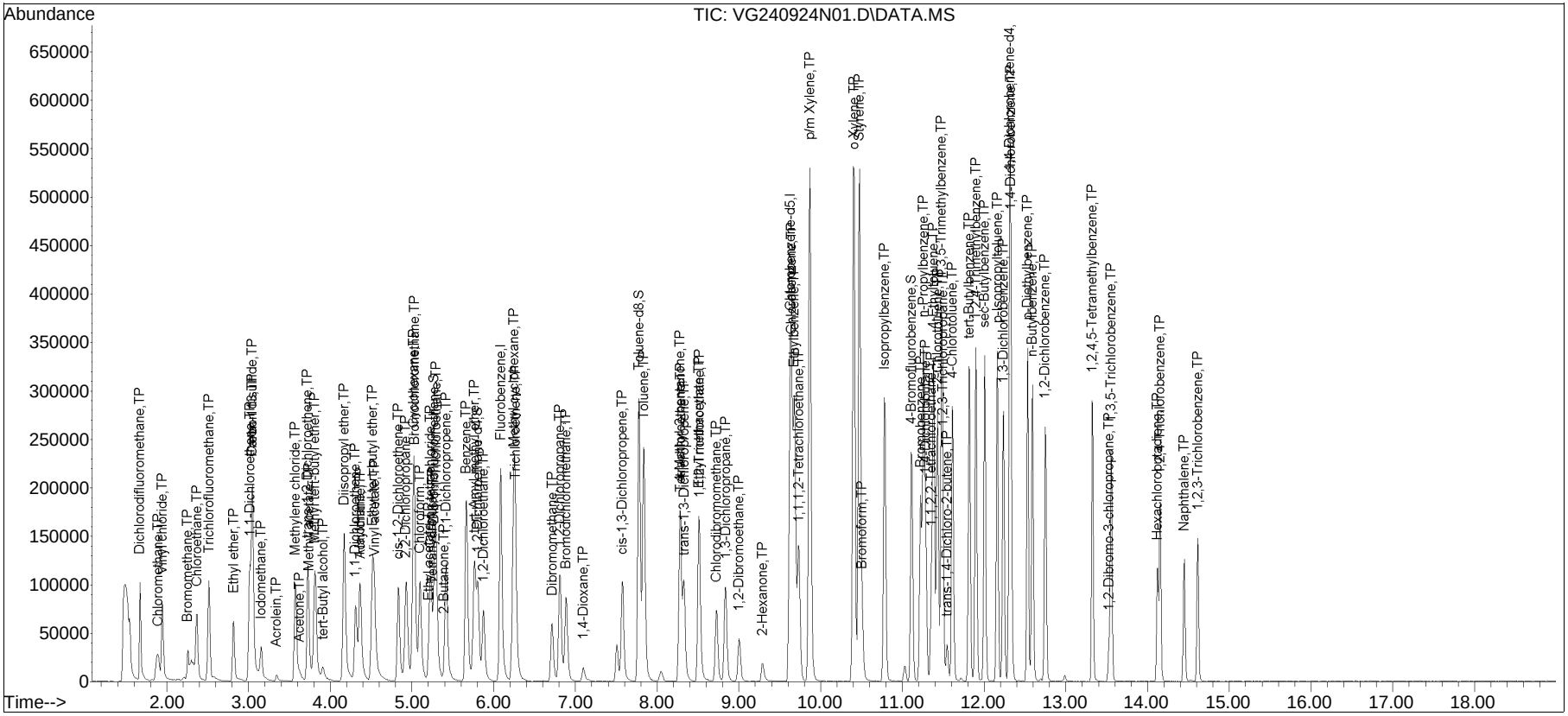
(#) = qualifier out of range (m) = manual integration (+) = signals summed

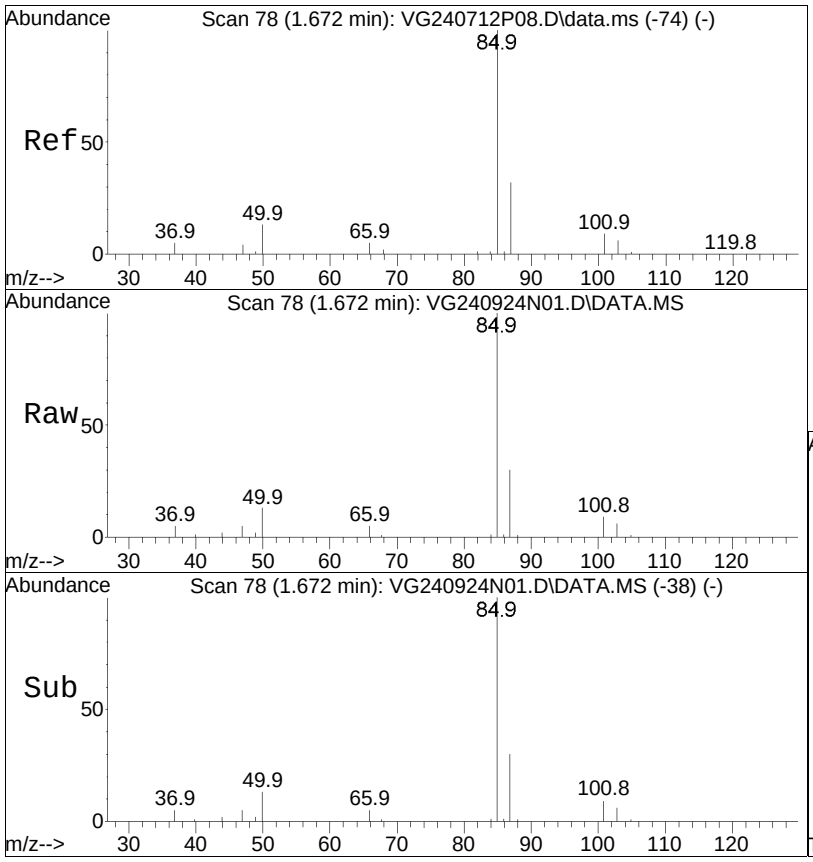
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N01.D
Acq On : 24 Sep 2024 7:17 pm
Operator : GONZO:MAG
Sample : WG1976114-3,31,10,10
Misc : WG1976114,ICAL21287
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 24 20:02:40 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

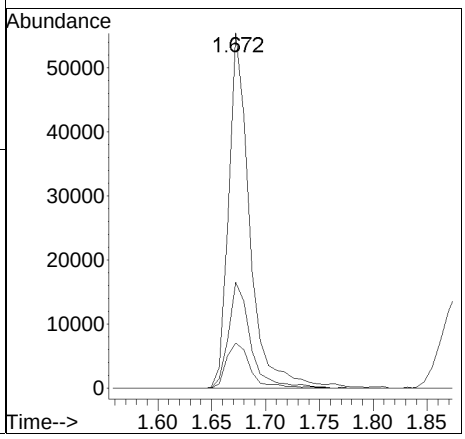


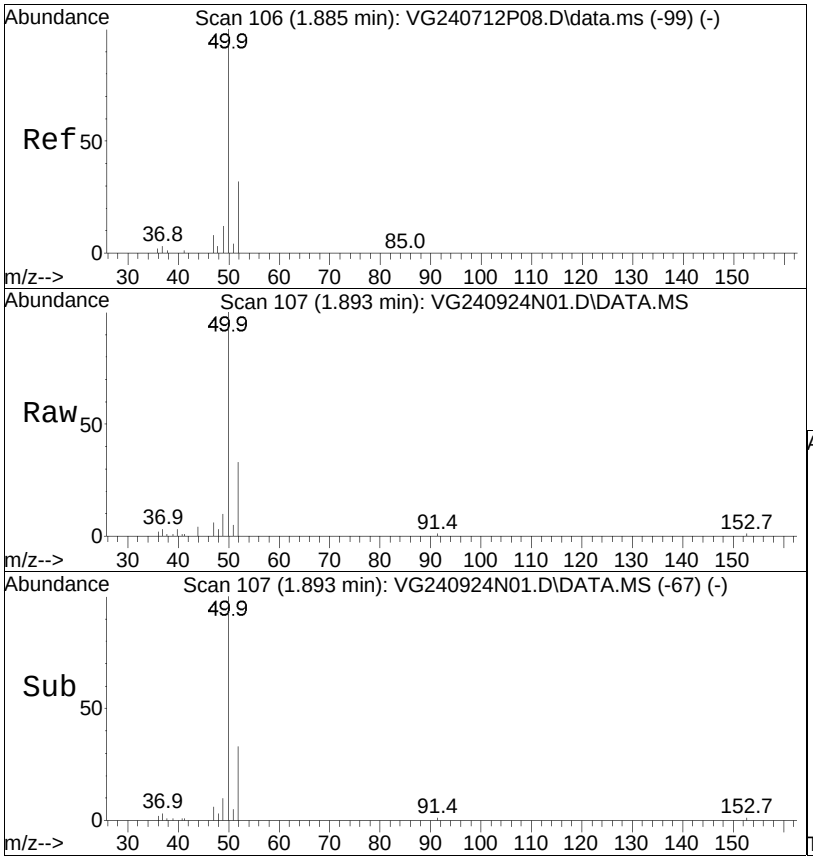


#2
Dichlorodifluoromethane
Concen: 12.17 ug/L
RT: 1.672 min Scan# 78
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 85 Resp: 76676

Ion	Ratio	Lower	Upper
85	100		
87	31.3	20.7	42.9
50	14.9	7.5	15.5

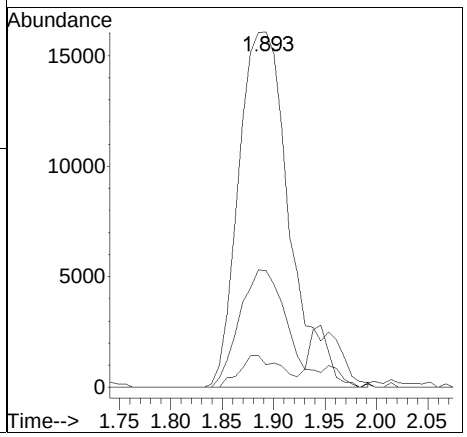


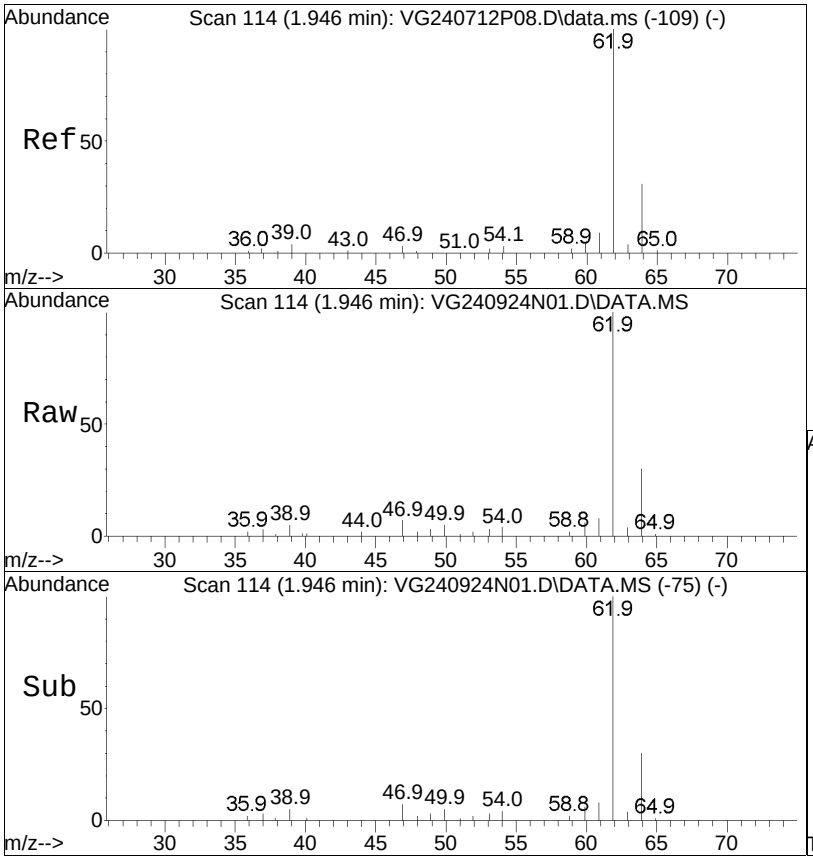


#3
Chloromethane
Concen: 10.54 ug/L
RT: 1.893 min Scan# 107
Delta R.T. 0.008 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 50 Resp: 56794

Ion	Ratio	Lower	Upper
50	100		
52	30.3	11.7	51.7
47	7.1	0.0	28.0

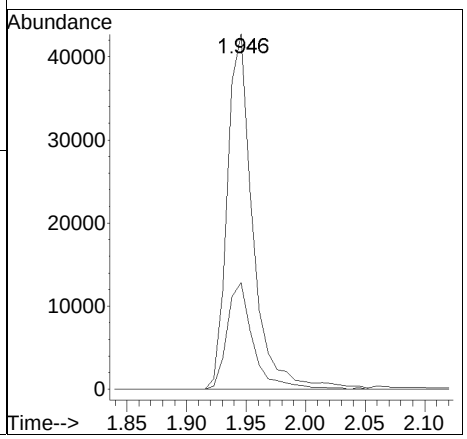


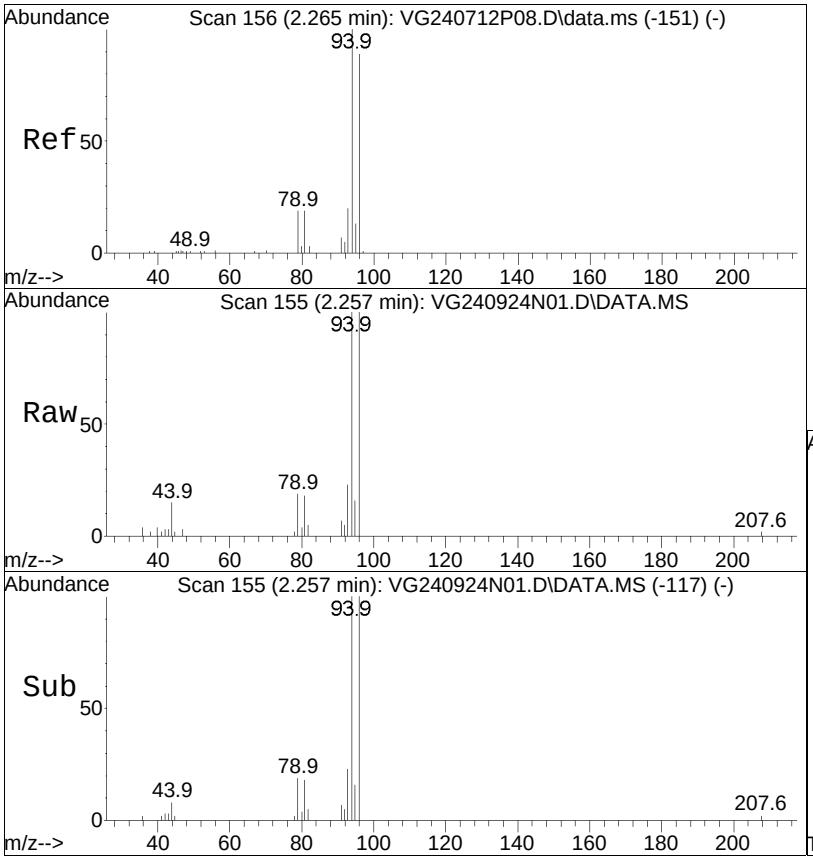


#4
Vinyl chloride
Concen: 11.51 ug/L
RT: 1.946 min Scan# 114
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 62 Resp: 64286

Ion	Ratio	Lower	Upper
62	100		
64	30.8	11.3	51.3

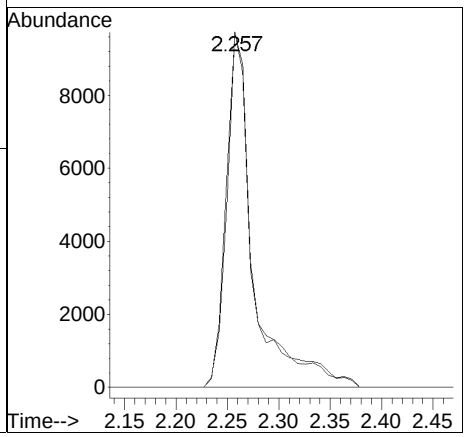


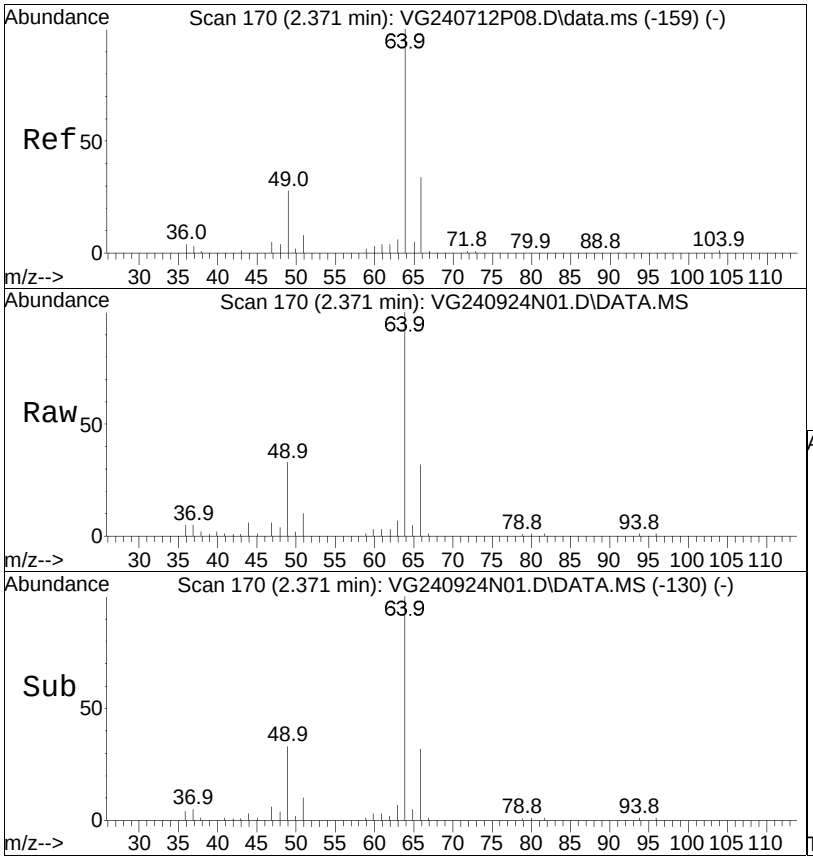


#5
Bromomethane
Concen: 6.16 ug/L
RT: 2.257 min Scan# 155
Delta R.T. -0.008 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 94 Resp: 18203

Ion	Ratio	Lower	Upper
94	100		
96	96.5	75.2	115.2

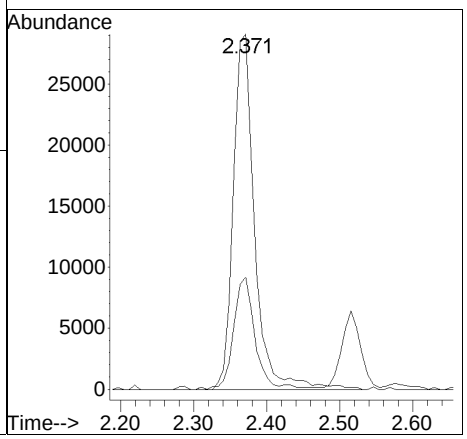


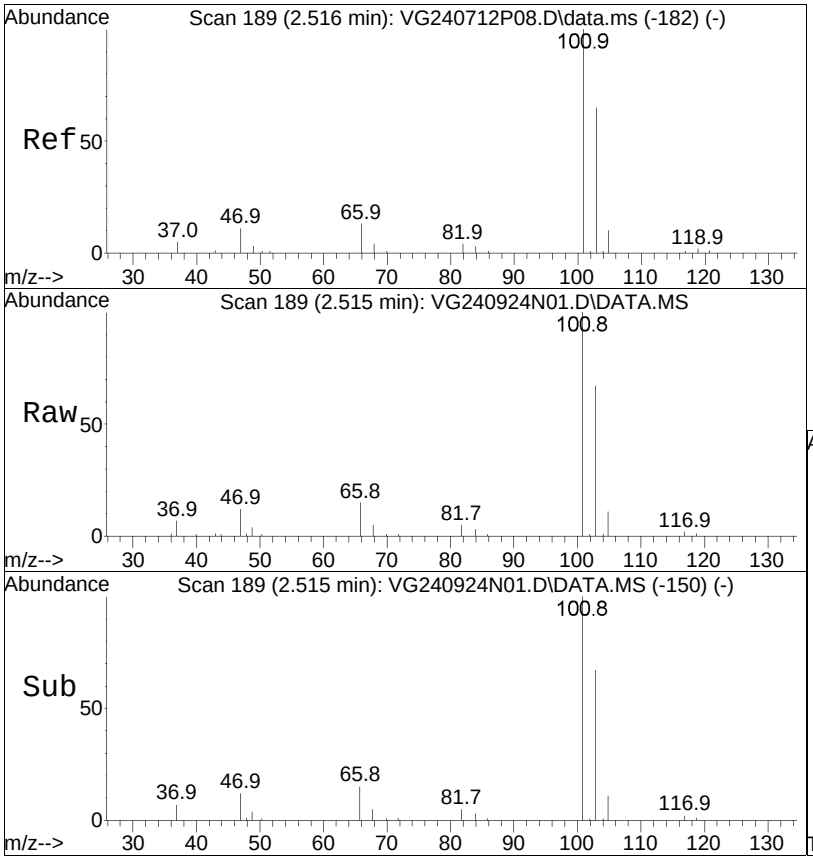


#6
Chloroethane
Concen: 13.93 ug/L
RT: 2.371 min Scan# 170
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 64 Resp: 59466

Ion	Ratio	Lower	Upper
64	100		
66	30.7	13.7	53.7

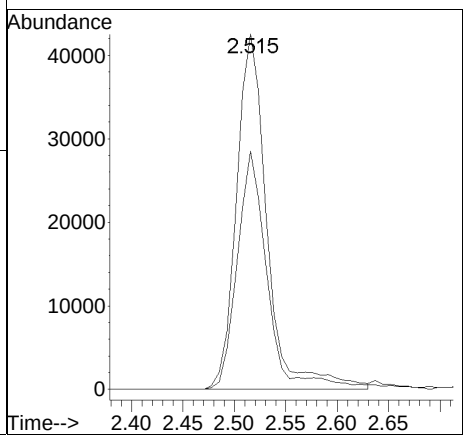


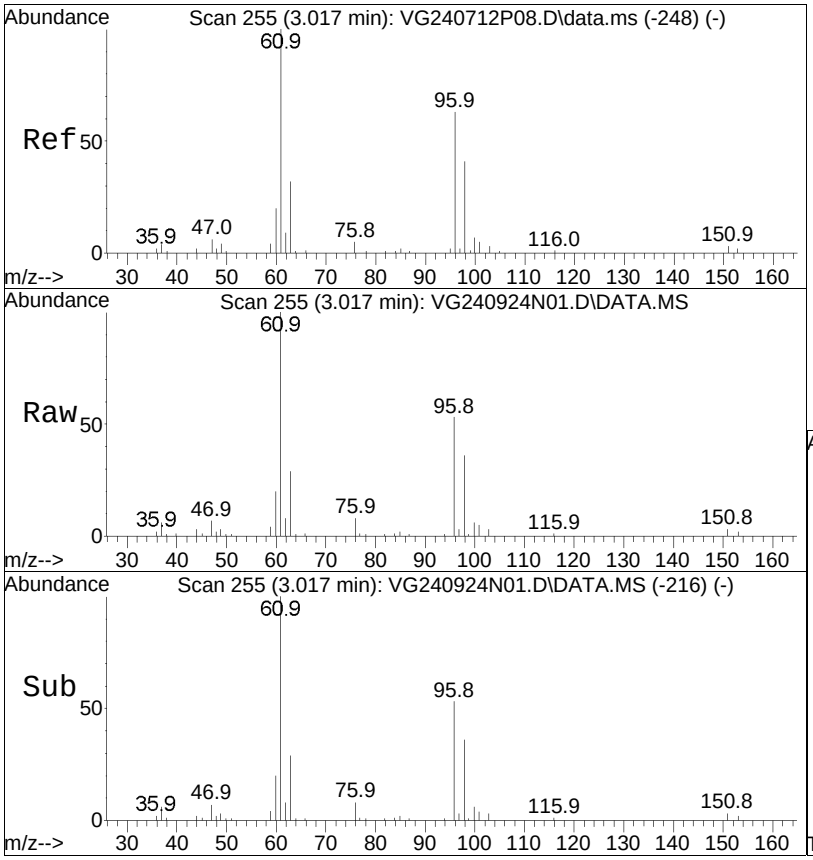


#7
Trichlorofluoromethane
Concen: 10.78 ug/L
RT: 2.515 min Scan# 189
Delta R.T. -0.001 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:101 Resp: 88224

Ion	Ratio	Lower	Upper
101	100		
103	67.2	52.2	78.2

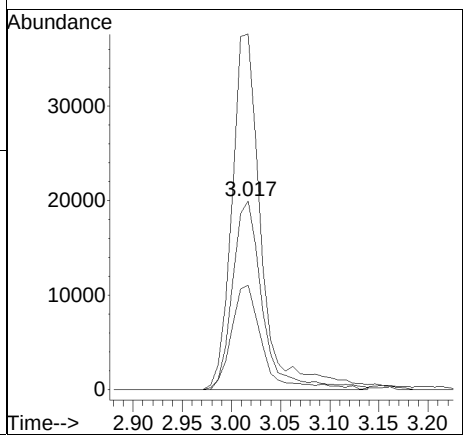


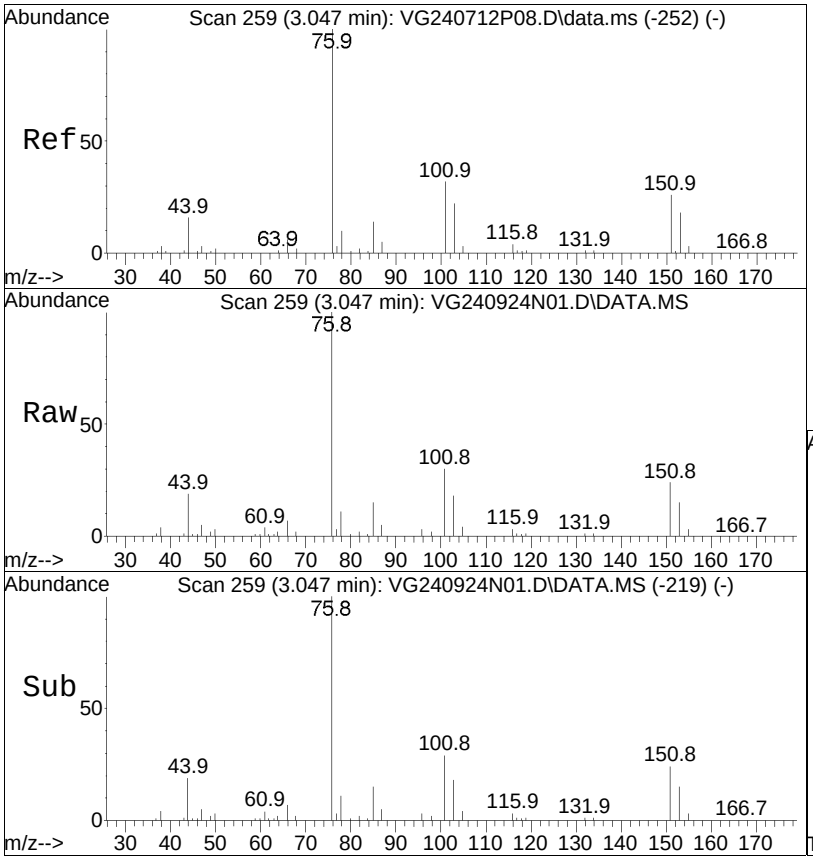


#10
1,1-Dichloroethene
Concen: 9.49 ug/L
RT: 3.017 min Scan# 255
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 96 Resp: 42614

Ion	Ratio	Lower	Upper
96	100		
61	186.6	124.2	186.4#
63	56.3	40.0	60.0

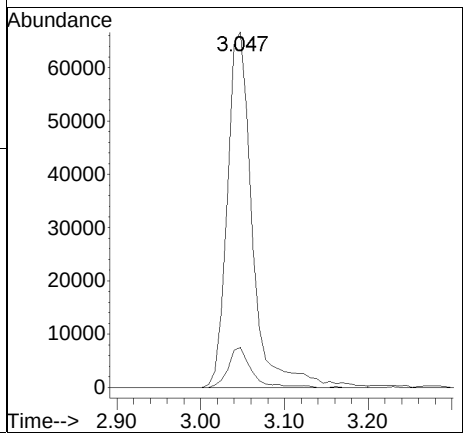


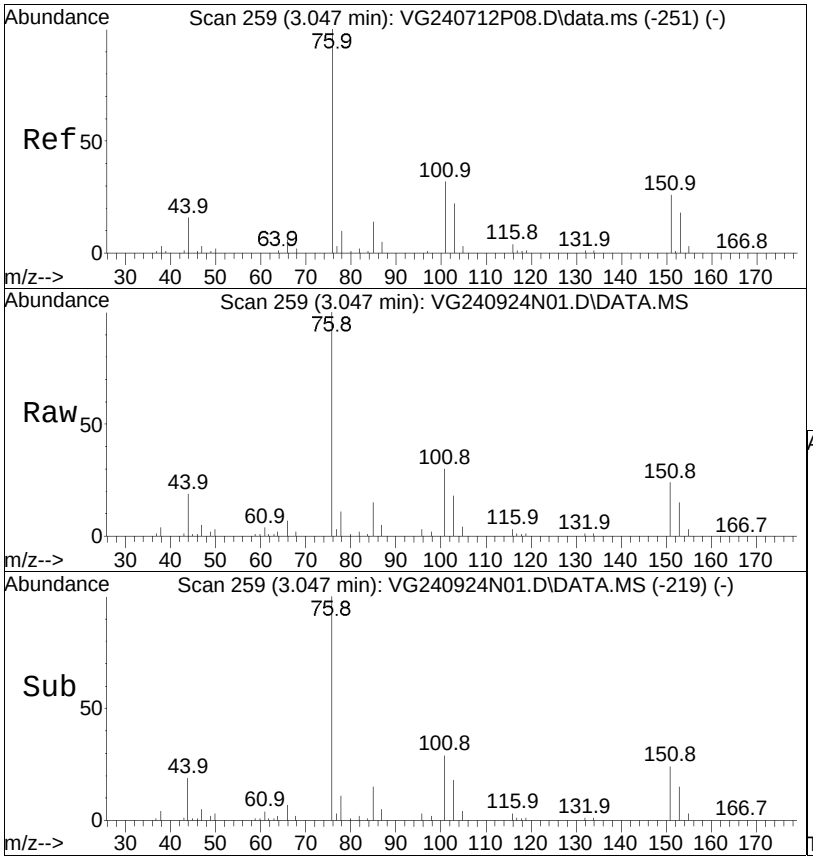


#11
Carbon disulfide
Concen: 10.57 ug/L
RT: 3.047 min Scan# 259
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 76 Resp: 139503

Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.6	13.6

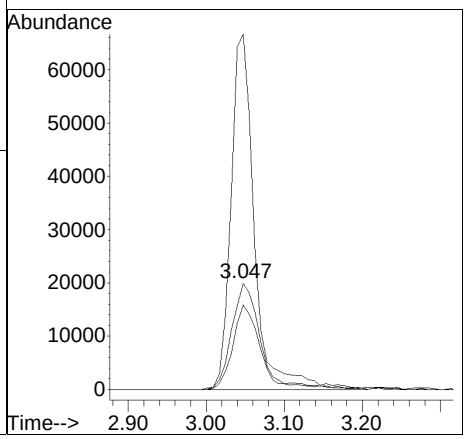


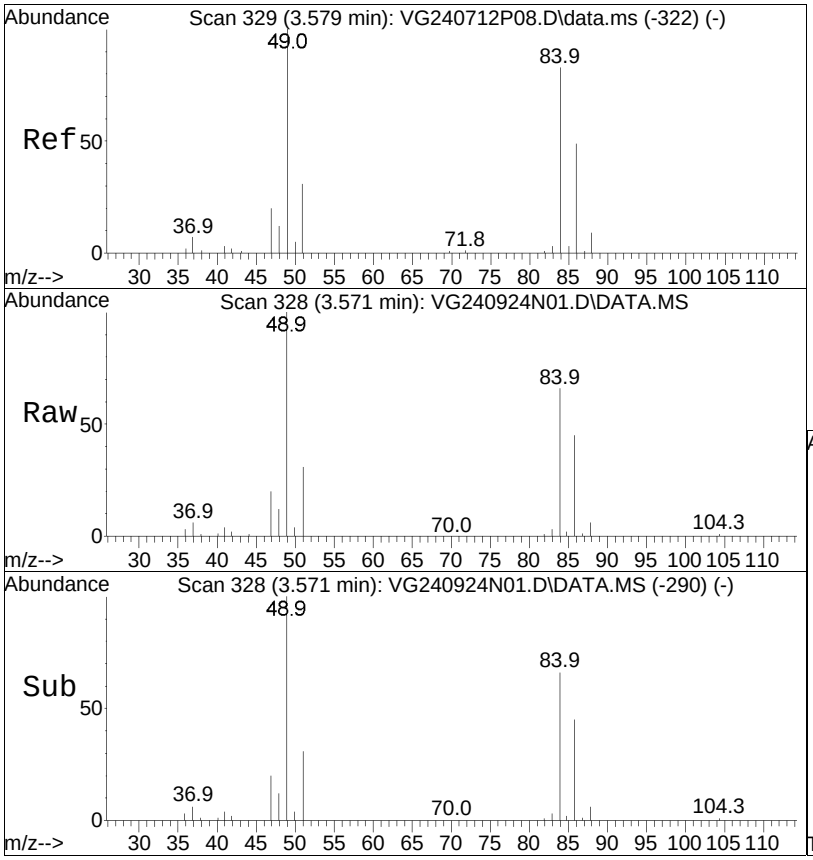


#12
Freon-113
Concen: 10.50 ug/L
RT: 3.047 min Scan# 259
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:101 Resp: 51718

Ion	Ratio	Lower	Upper
101	100		
151	76.7	68.2	102.2
76	269.7	186.0	279.0

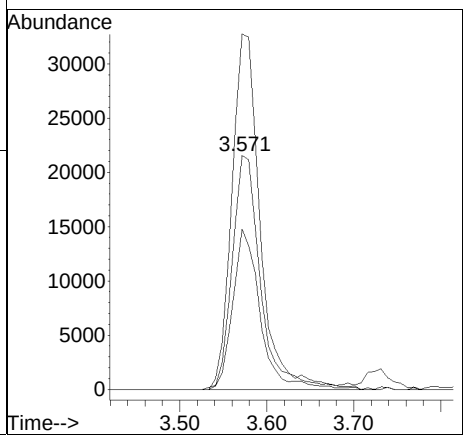


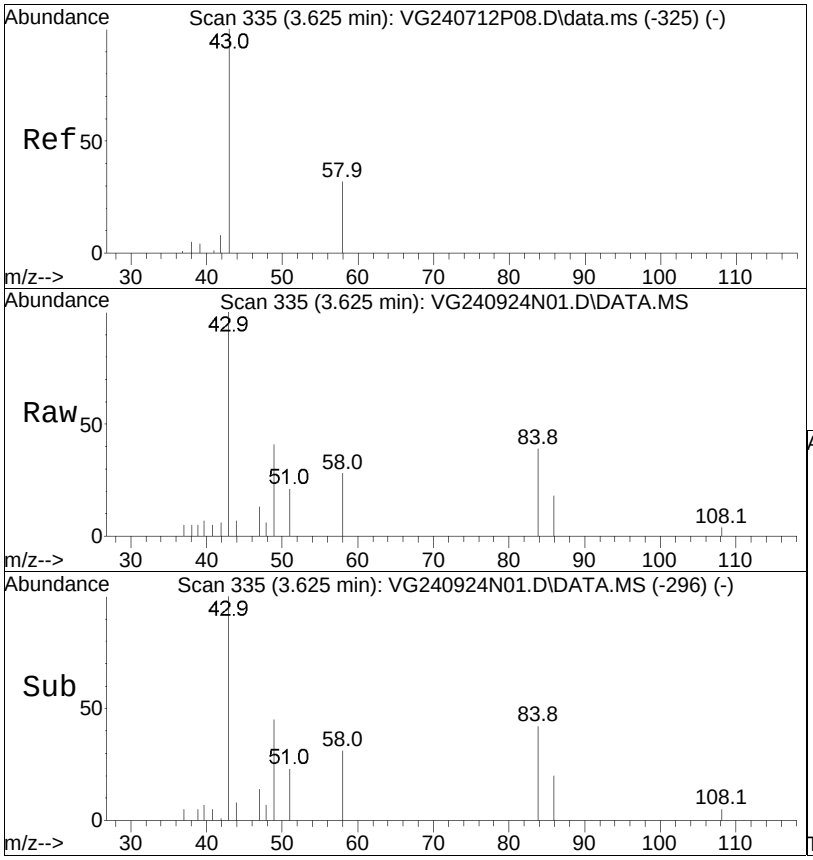


#15
Methylene chloride
Concen: 9.26 ug/L
RT: 3.571 min Scan# 328
Delta R.T. -0.008 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 84 Resp: 49155

Ion	Ratio	Lower	Upper
84	100		
86	66.3	41.1	85.5
49	150.1	76.2	158.2

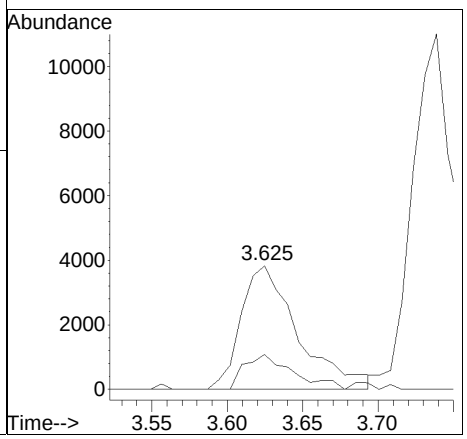


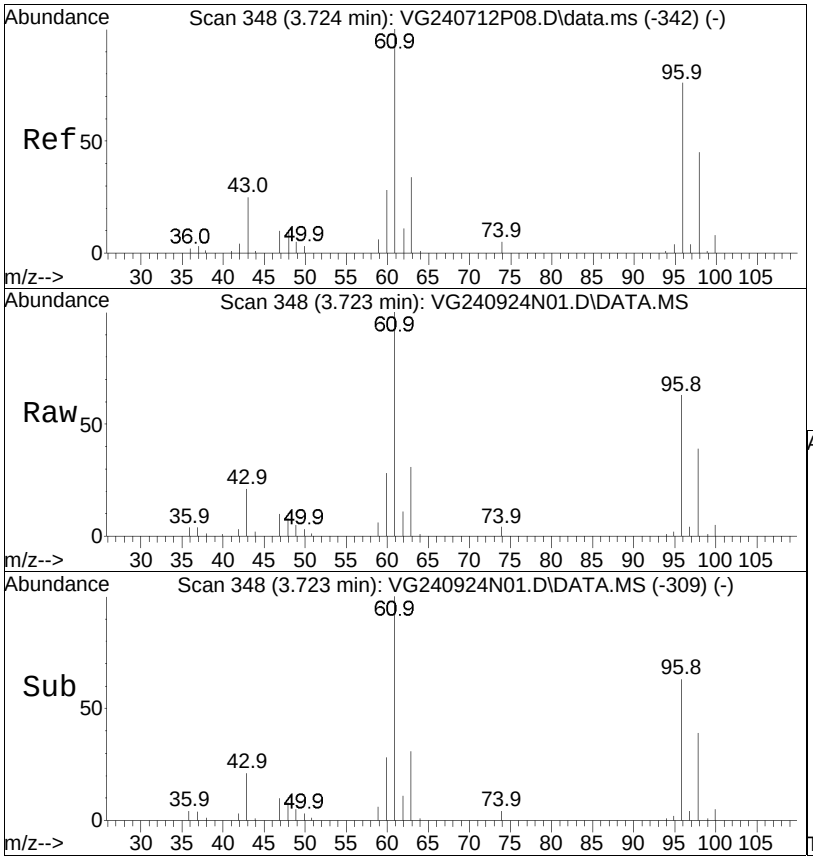


#17
Acetone
Concen: 7.93 ug/L
RT: 3.625 min Scan# 335
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 43 Resp: 10104

Ion	Ratio	Lower	Upper
43	100		
58	24.1	22.2	33.4

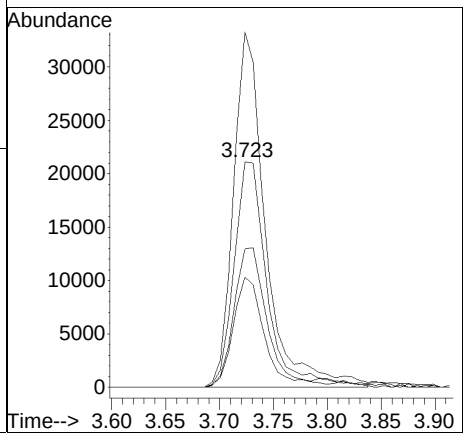


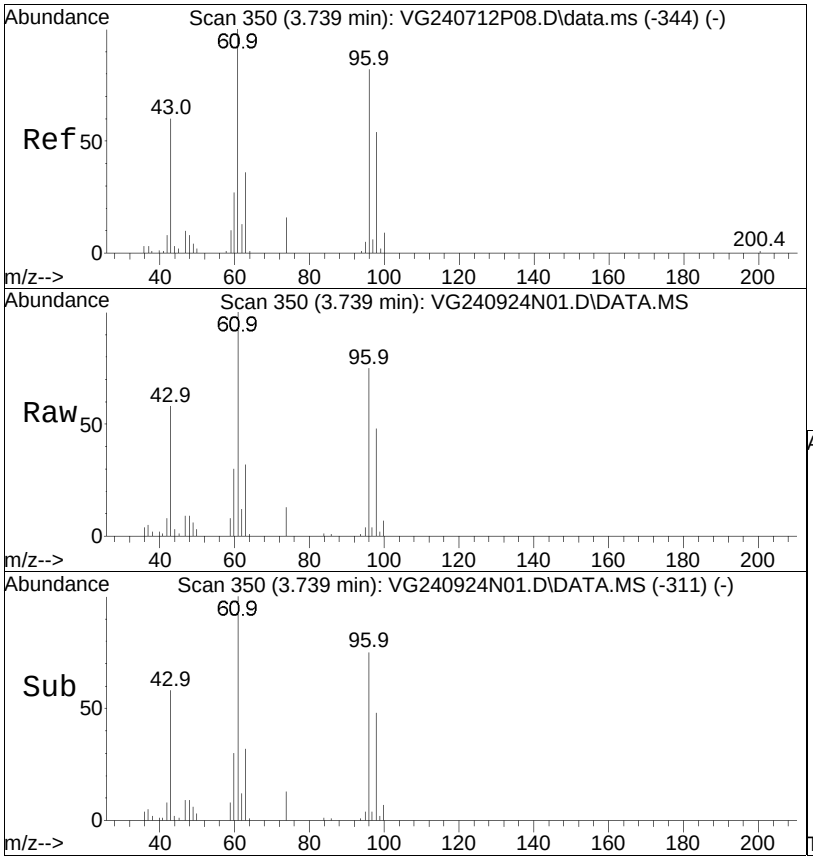


#18
trans-1,2-Dichloroethene
Concen: 9.24 ug/L
RT: 3.723 min Scan# 348
Delta R.T. -0.001 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 96 Resp: 45374

Ion	Ratio	Lower	Upper
96	100		
61	155.3	85.7	178.1
98	60.9	40.2	83.4
63	46.4	28.0	58.2

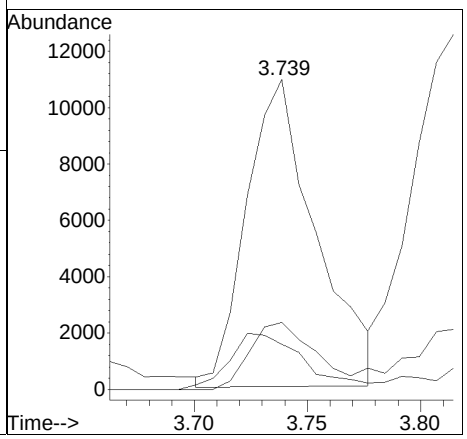


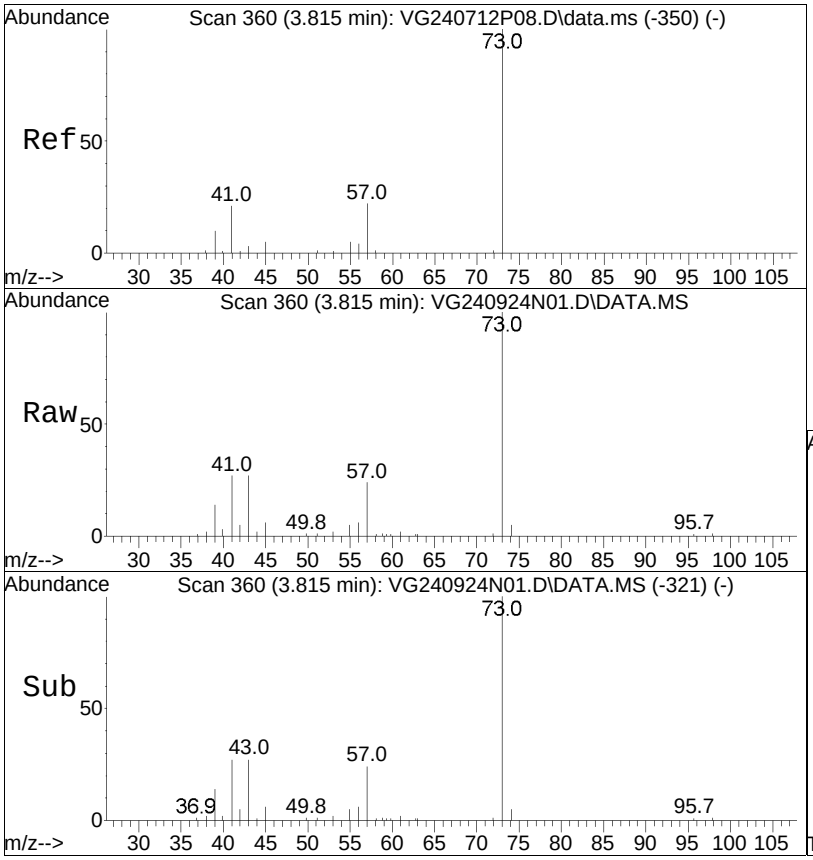


#19
Methyl acetate
Concen: 8.56 ug/L
RT: 3.739 min Scan# 350
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 43 Resp: 23363

Ion	Ratio	Lower	Upper
43	100		
74	20.5	19.3	28.9
59	19.5	13.9	20.9

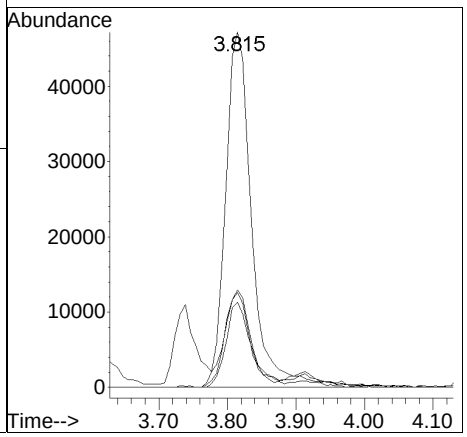


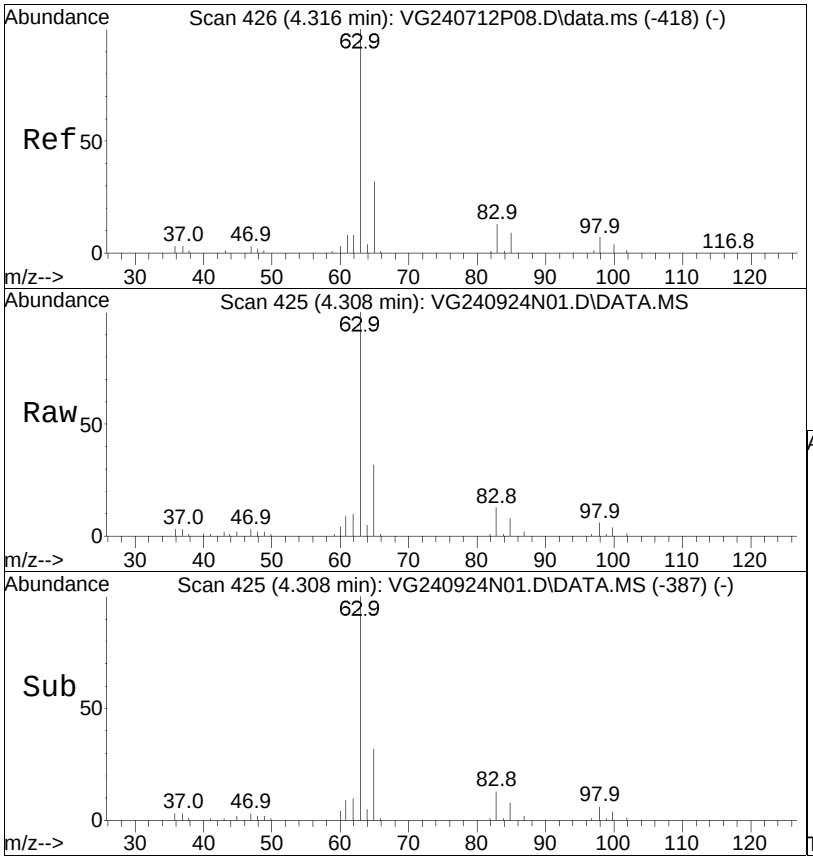


#20
Methyl tert-butyl ether
Concen: 8.37 ug/L
RT: 3.815 min Scan# 360
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 73 Resp: 126366

Ion	Ratio	Lower	Upper
73	100		
57	22.5	12.5	26.1
43	26.2	13.0	27.0
41	27.2	12.5	26.1#

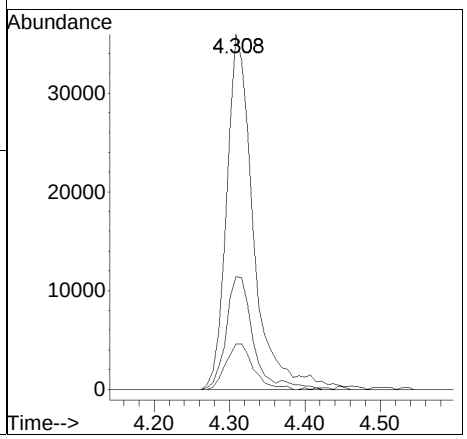


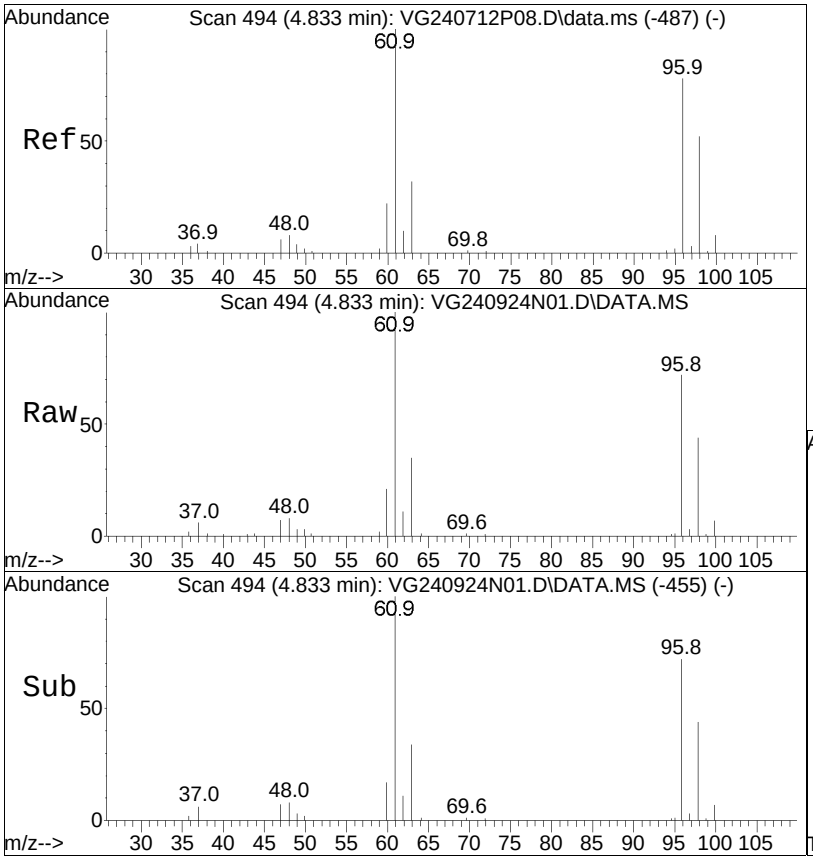


#23
1,1-Dichloroethane
Concen: 10.06 ug/L
RT: 4.308 min Scan# 425
Delta R.T. -0.008 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 63 Resp: 89482

Ion	Ratio	Lower	Upper
63	100		
65	31.9	10.4	50.4
83	13.0	0.0	33.2

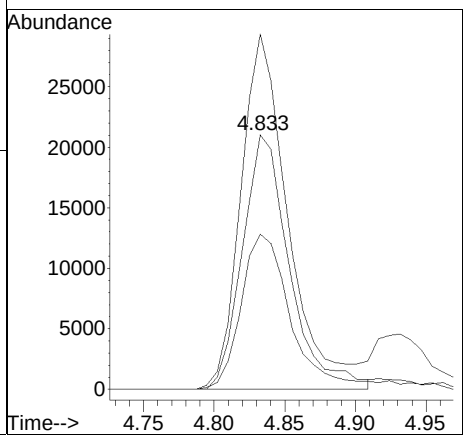


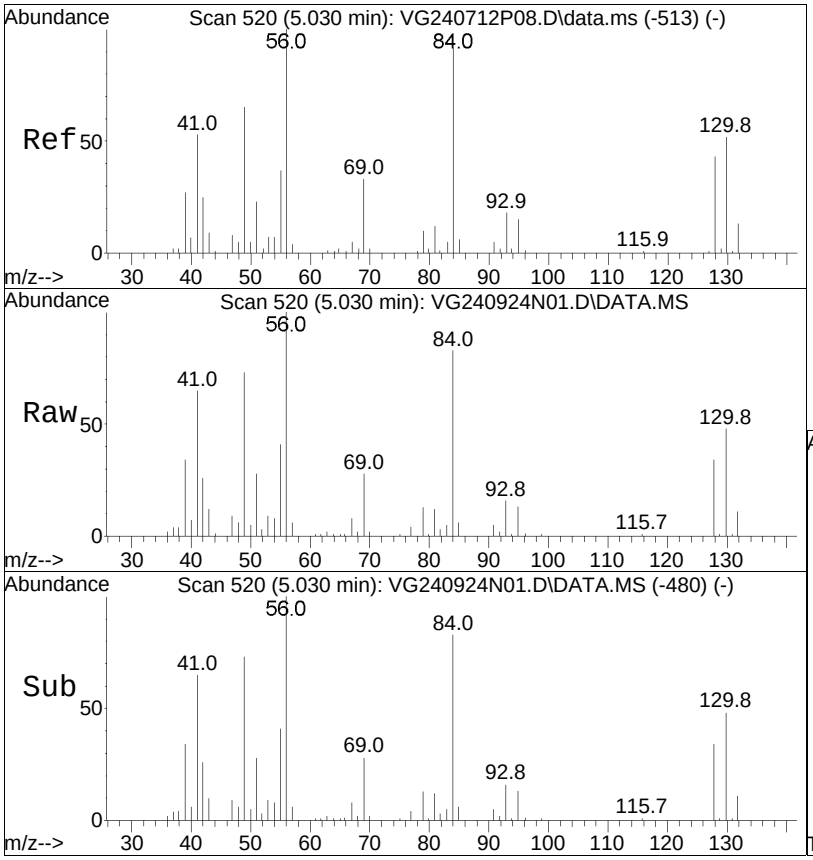


#28
cis-1,2-Dichloroethene
Concen: 8.64 ug/L
RT: 4.833 min Scan# 494
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 96 Resp: 48811

Ion	Ratio	Lower	Upper
96	100		
61	137.3	96.6	144.8
98	67.0	51.3	76.9

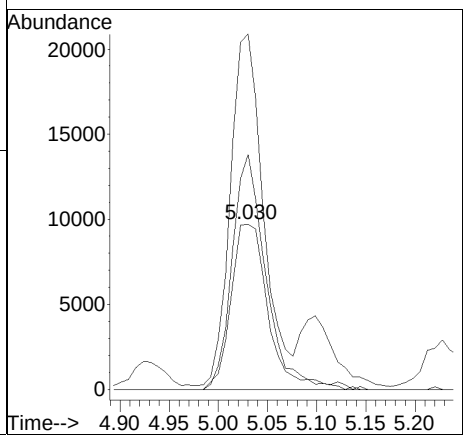


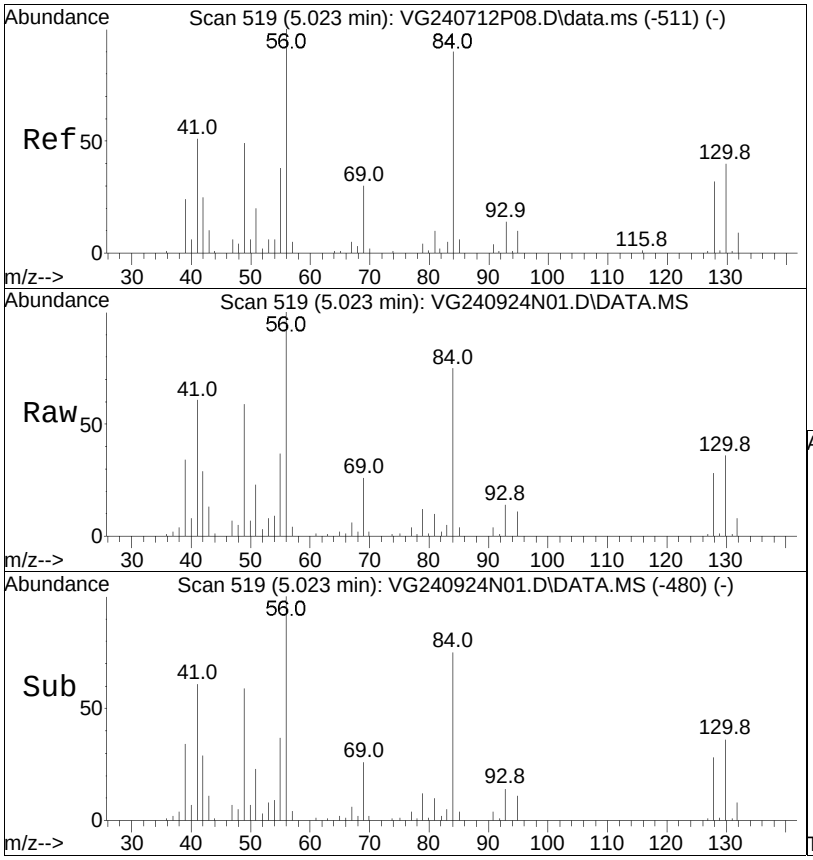


#30
Bromochloromethane
Concen: 9.22 ug/L
RT: 5.030 min Scan# 520
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:128 Resp: 25465

Ion	Ratio	Lower	Upper
128	100		
49	188.9	112.7	169.1#
130	130.0	103.3	154.9

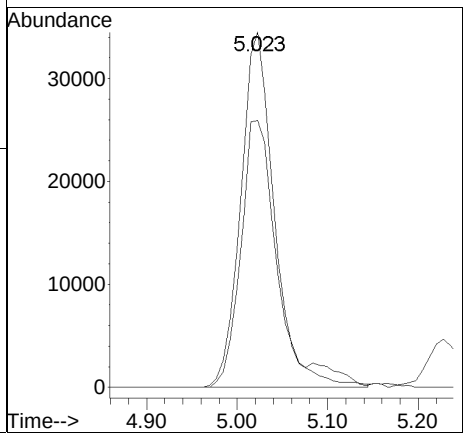


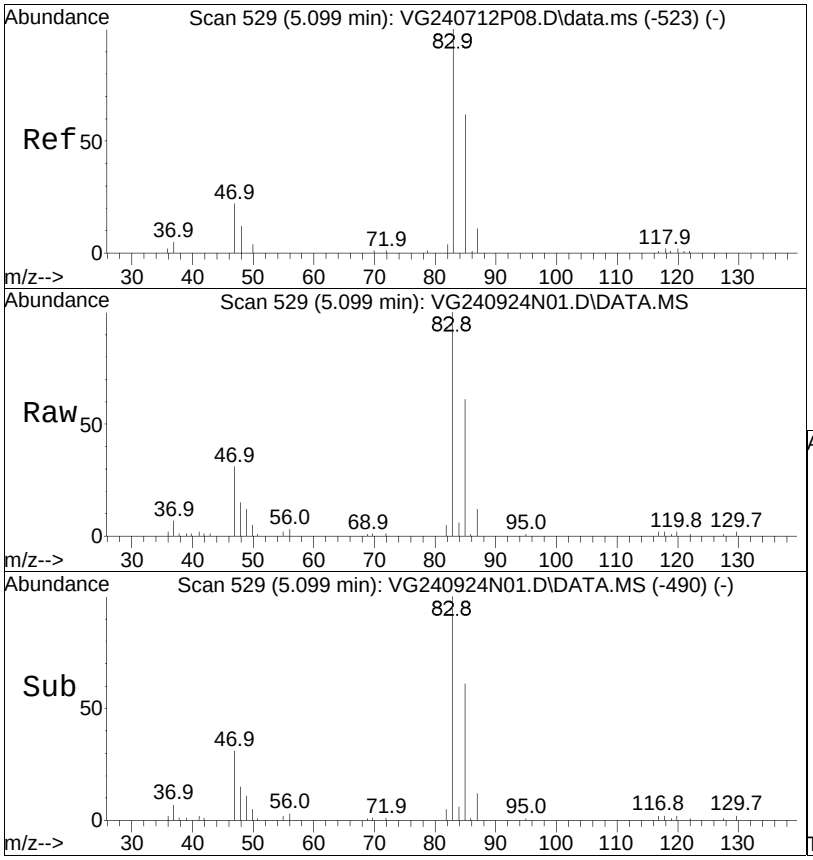


#31
Cyclohexane
Concen: 10.62 ug/L
RT: 5.023 min Scan# 519
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 56 Resp: 89588

Ion	Ratio	Lower	Upper
56	100		
84	76.7	63.8	132.4

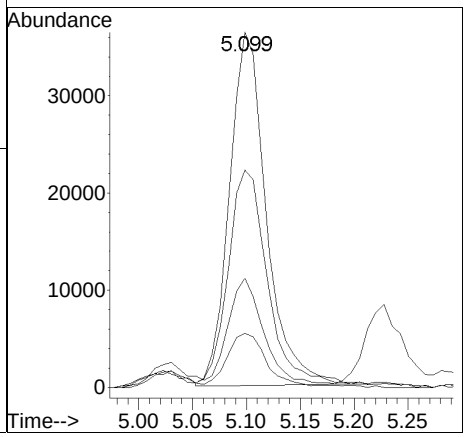


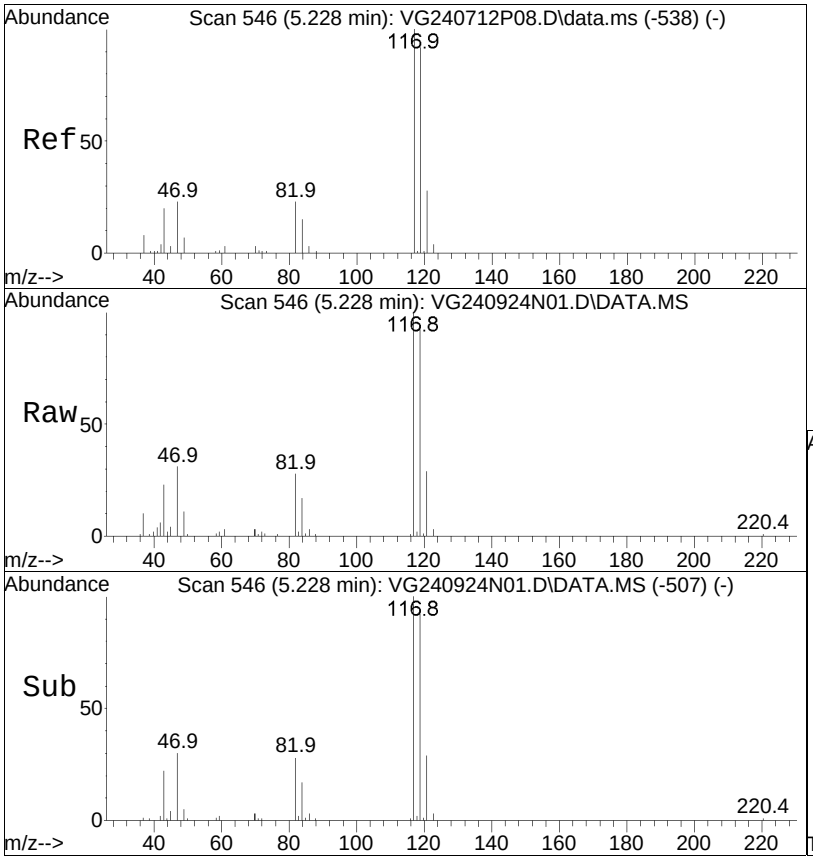


#32
Chloroform
Concen: 9.53 ug/L
RT: 5.099 min Scan# 529
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 83 Resp: 86773

Ion	Ratio	Lower	Upper
83	100		
85	64.9	41.4	86.0
47	30.6	15.1	31.3
48	16.9	7.7	16.1#

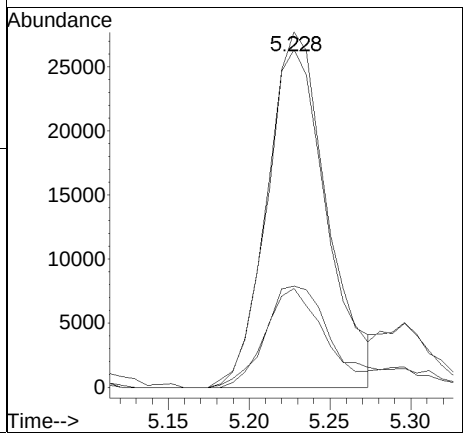


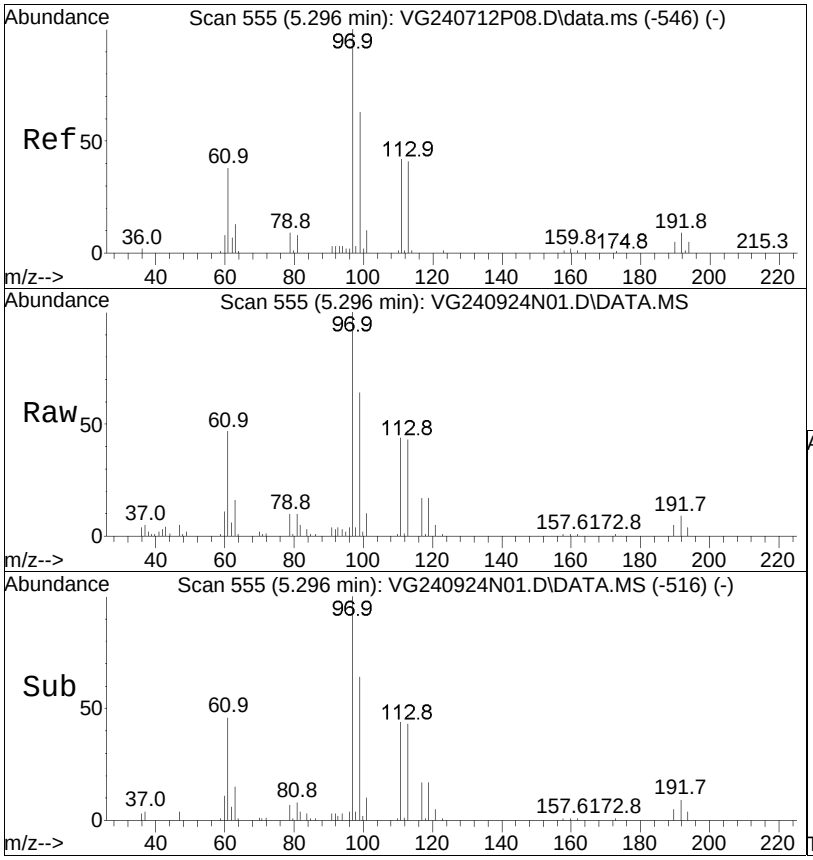


#34
Carbon tetrachloride
Concen: 9.67 ug/L
RT: 5.228 min Scan# 546
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:117 Resp: 71366

Ion	Ratio	Lower	Upper
117	100		
119	95.4	63.2	131.2
121	30.0	20.4	42.4
82	33.7	15.4	32.0#

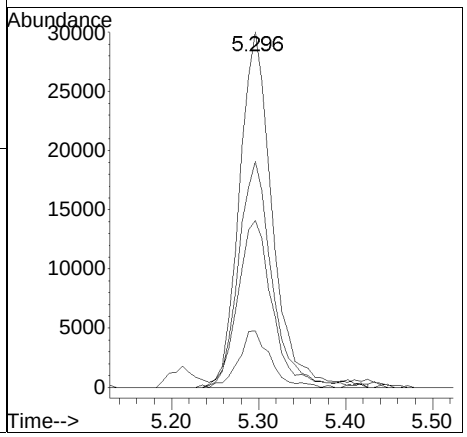


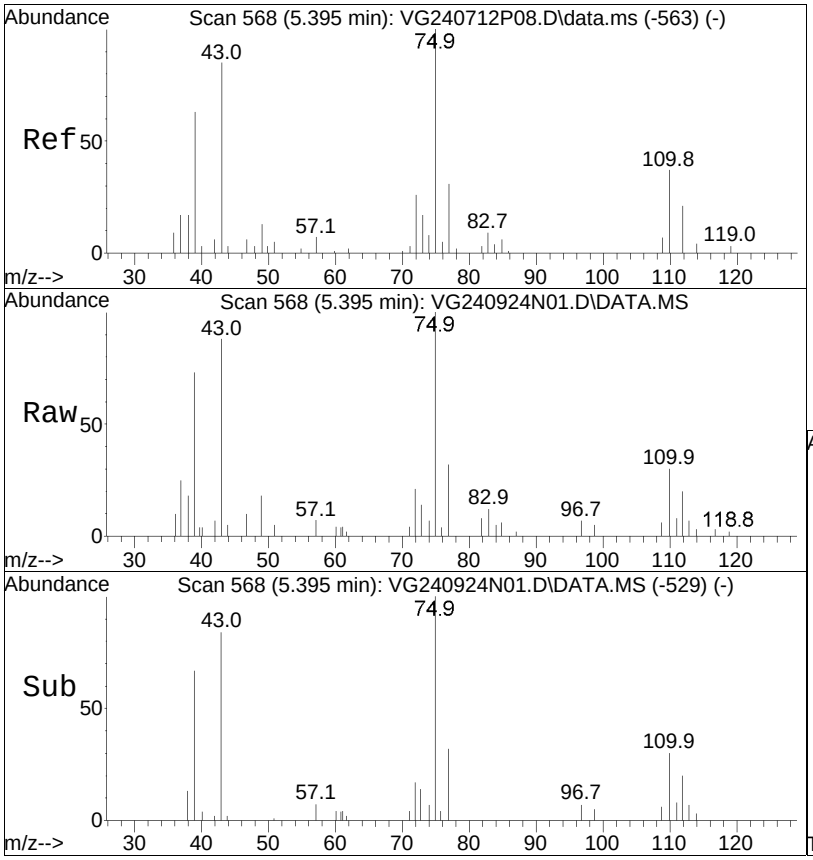


#37
1,1,1-Trichloroethane
Concen: 9.46 ug/L
RT: 5.296 min Scan# 555
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 97 Resp: 79482

Ion	Ratio	Lower	Upper
97	100		
99	64.7	41.3	85.7
61	49.1	26.0	54.0
63	15.5	8.6	18.0

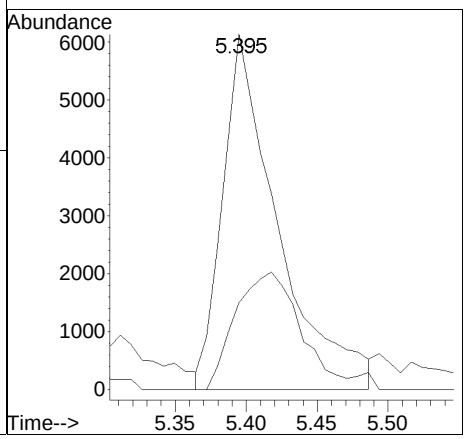


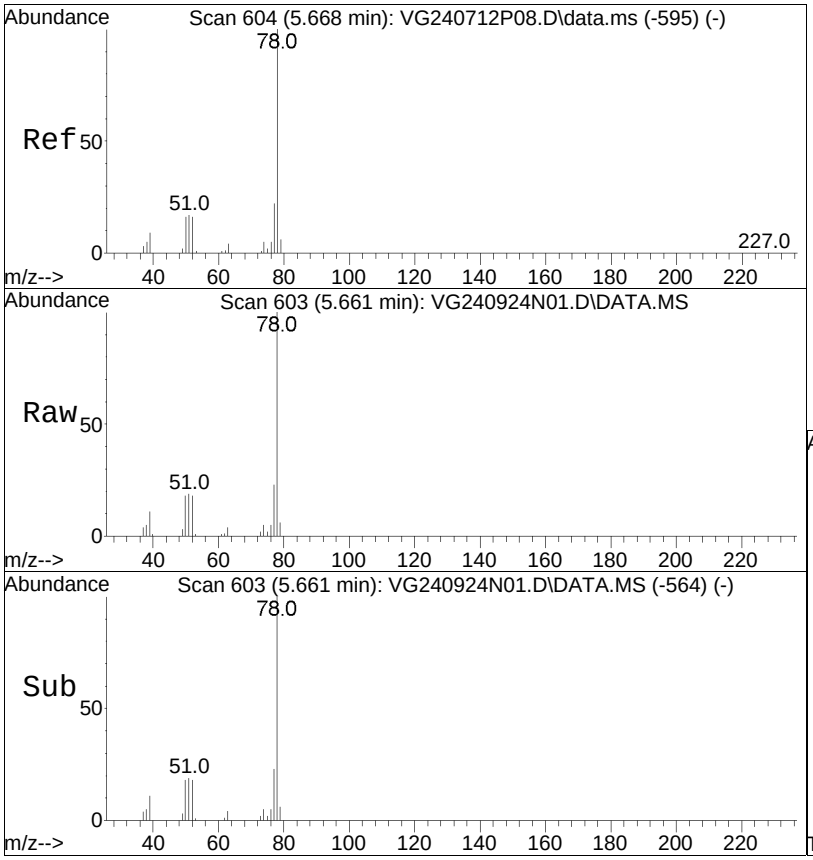


#39
2-Butanone
Concen: 9.63 ug/L M4
RT: 5.395 min Scan# 568
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 43 Resp: 16582

Ion	Ratio	Lower	Upper
43	100		
72	40.2	42.6	63.8#

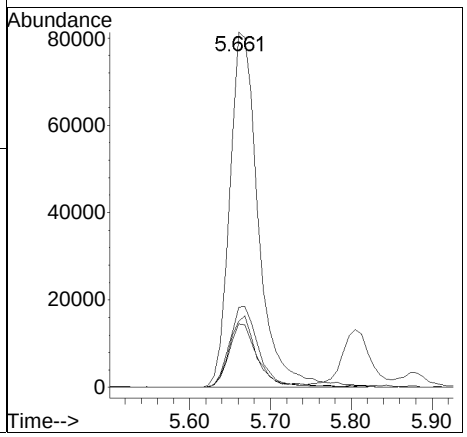


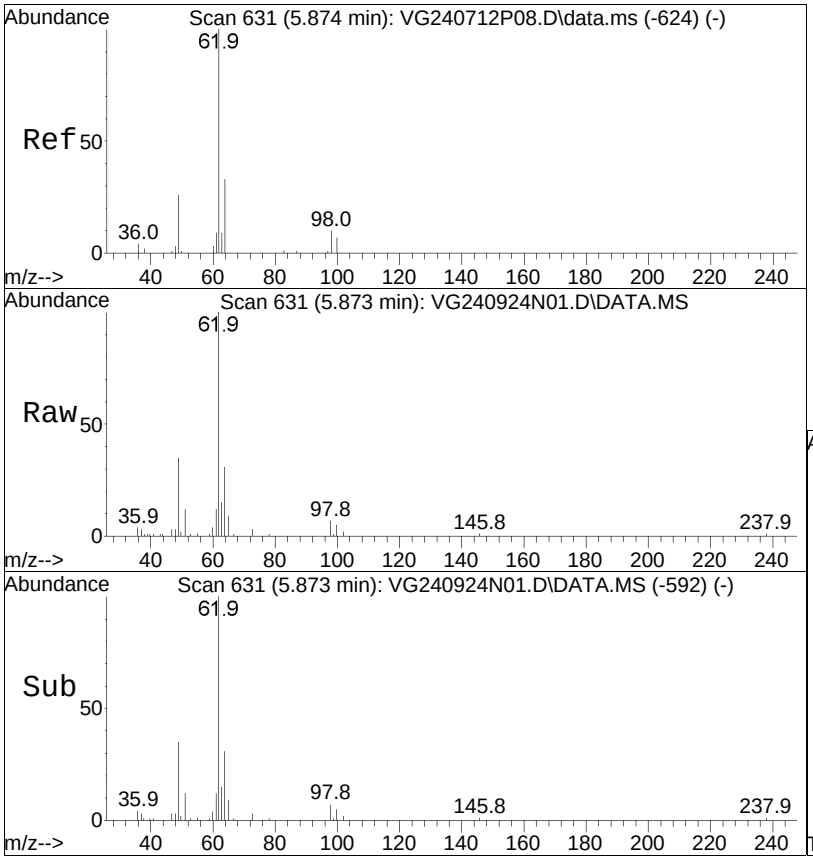


#41
Benzene
Concen: 9.91 ug/L
RT: 5.661 min Scan# 603
Delta R.T. -0.007 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 78 Resp: 201386

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.5	32.1
51	18.6	9.9	20.7
52	18.1	9.2	19.2

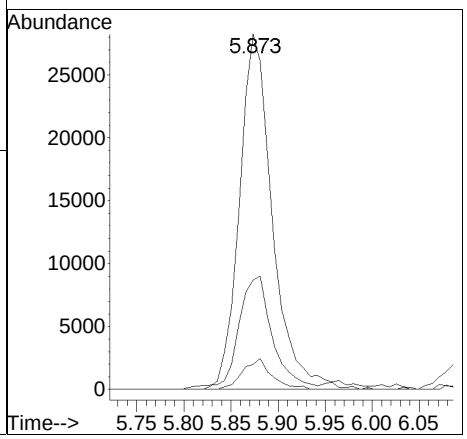


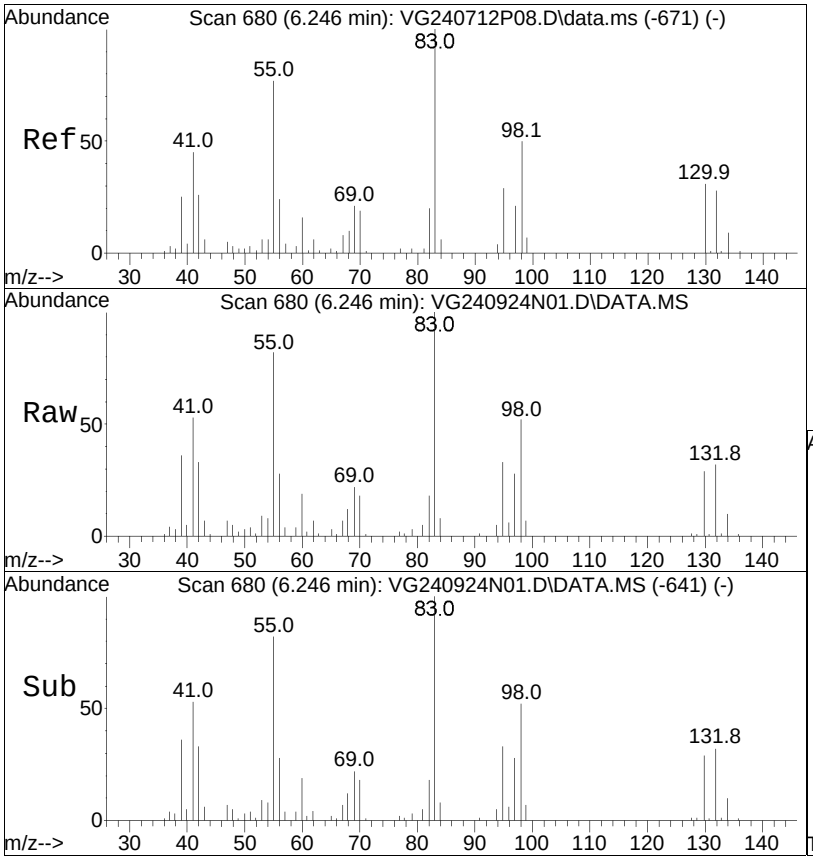


#44
1,2-Dichloroethane
Concen: 10.69 ug/L
RT: 5.873 min Scan# 631
Delta R.T. -0.001 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 62 Resp: 69283

Ion	Ratio	Lower	Upper
62	100		
64	32.7	11.9	51.9
98	7.6	0.0	29.3

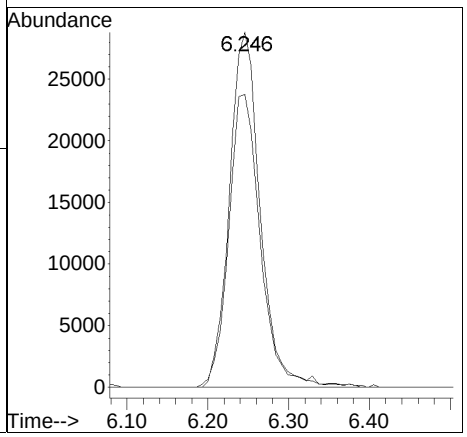


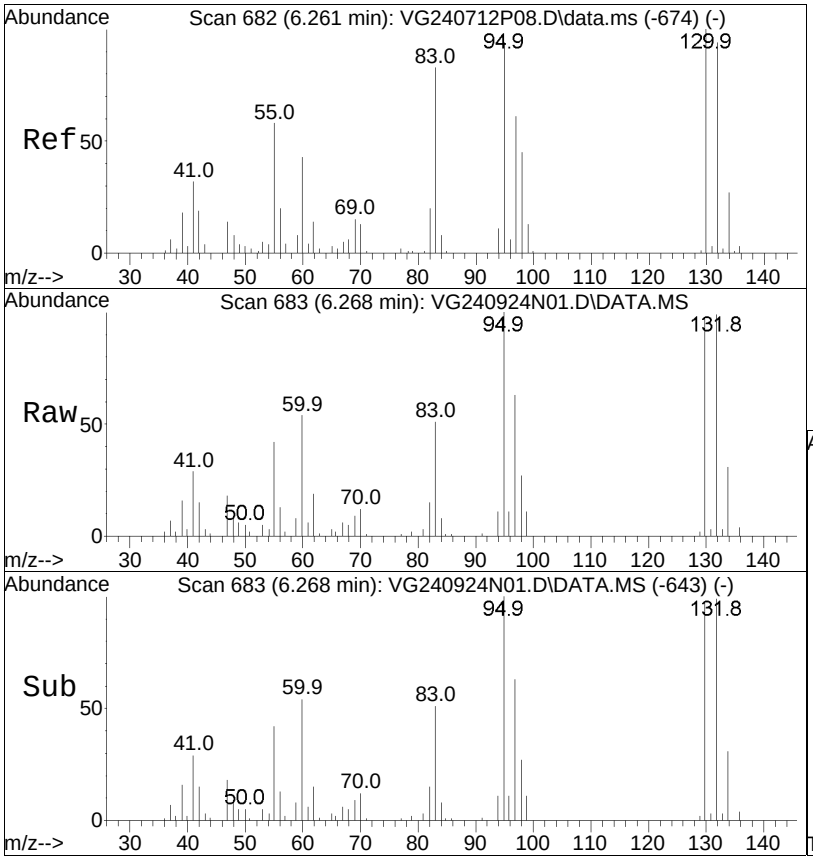


#47
Methyl cyclohexane
Concen: 9.69 ug/L
RT: 6.246 min Scan# 680
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 83 Resp: 76591

Ion	Ratio	Lower	Upper
83	100		
55	85.3	56.0	84.0#

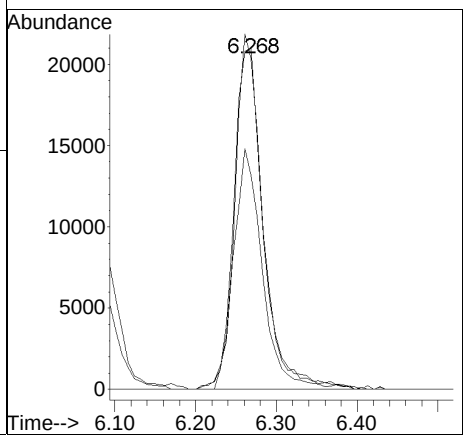


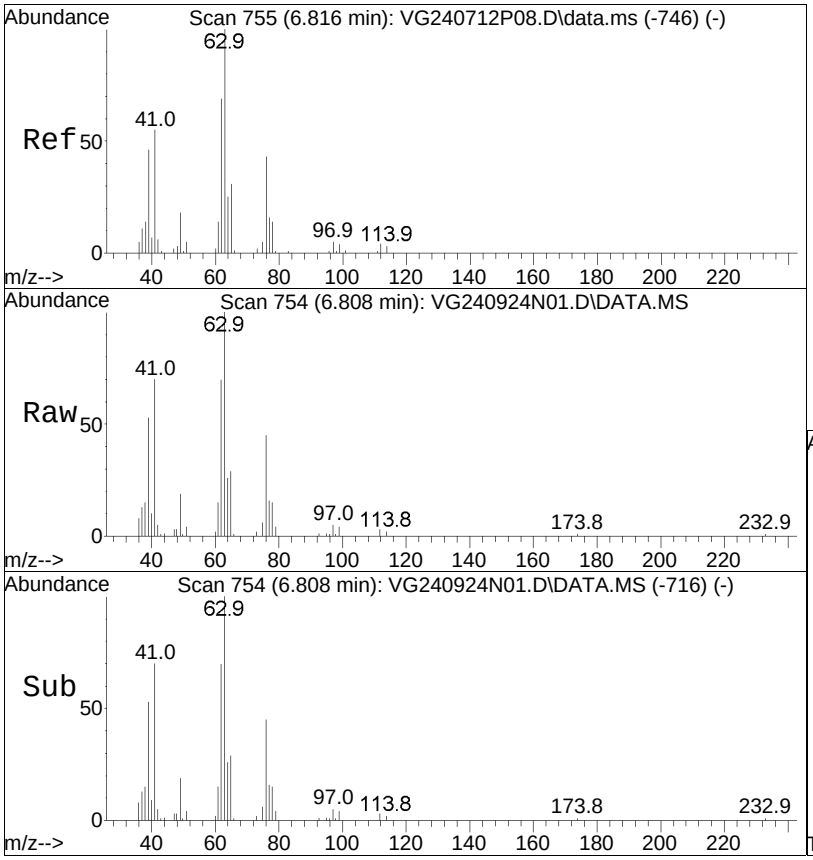


#48
Trichloroethene
Concen: 9.38 ug/L
RT: 6.268 min Scan# 683
Delta R.T. 0.007 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 95 Resp: 53762

Ion	Ratio	Lower	Upper
95	100		
97	68.4	54.0	81.0
130	97.6	85.0	127.4

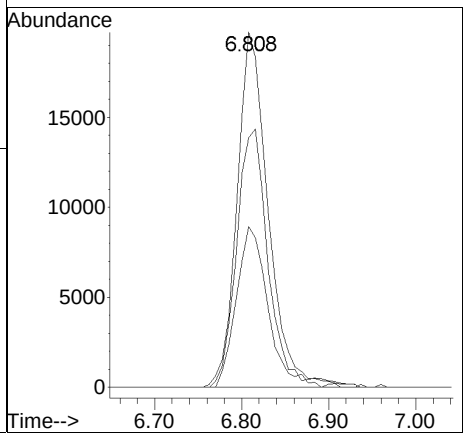


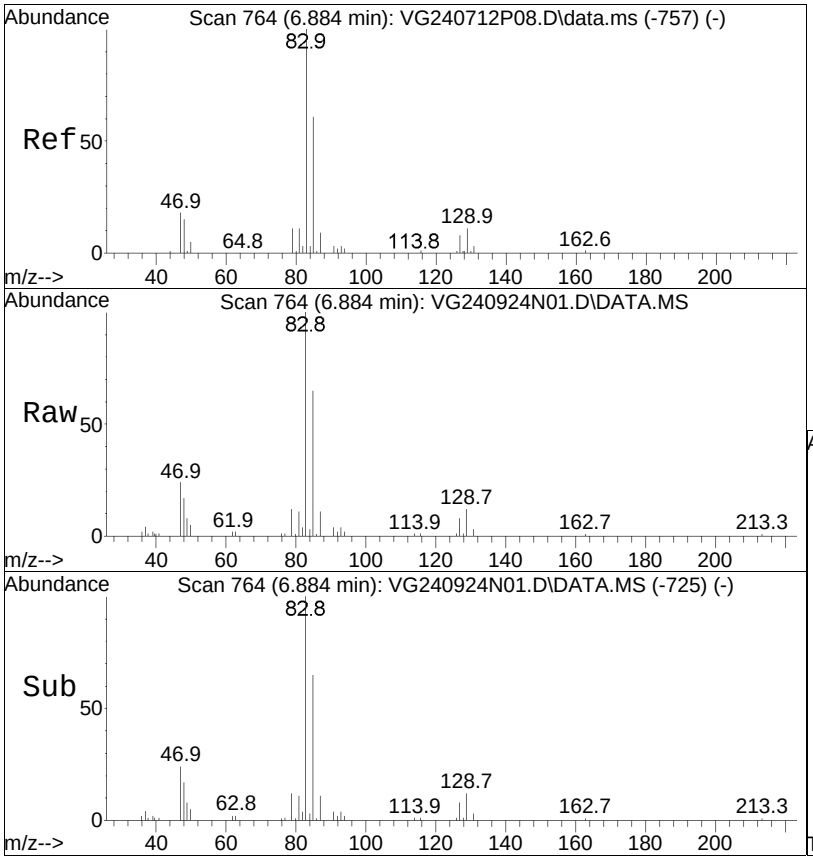


#51
1,2-Dichloropropane
Concen: 9.95 ug/L
RT: 6.808 min Scan# 754
Delta R.T. -0.008 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 63 Resp: 49364

Ion	Ratio	Lower	Upper
63	100		
62	74.4	56.5	84.7
76	45.8	34.6	52.0

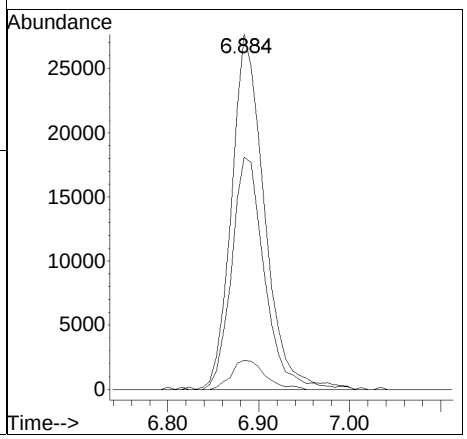


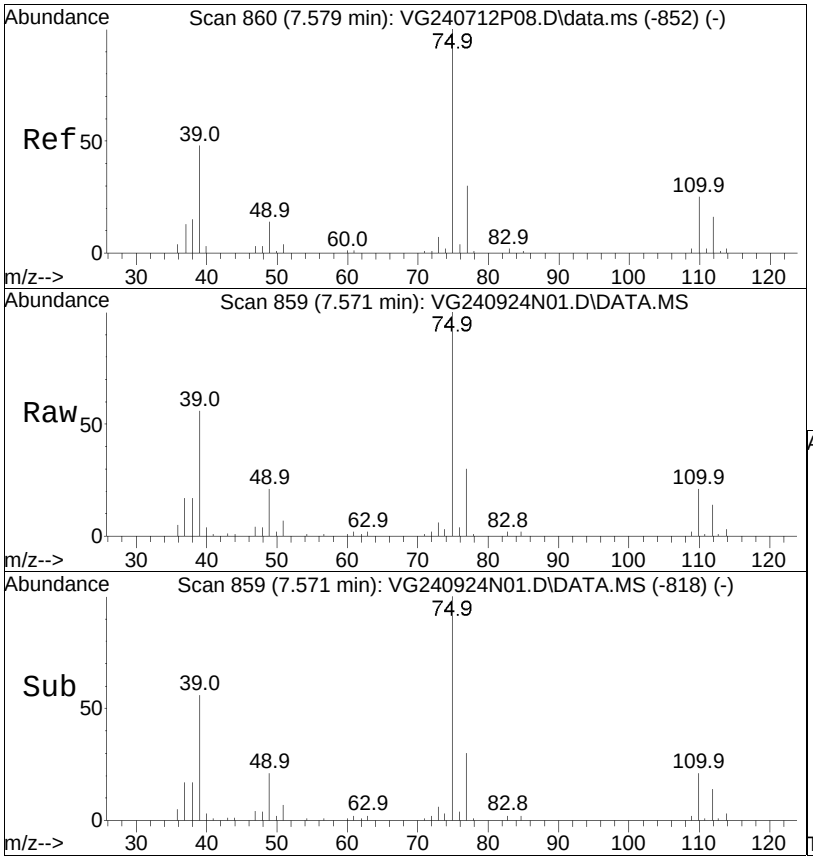


#54
Bromodichloromethane
Concen: 9.56 ug/L
RT: 6.884 min Scan# 764
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 83 Resp: 69203

Ion	Ratio	Lower	Upper
83	100		
85	65.8	50.8	76.2
127	8.4	7.4	11.2

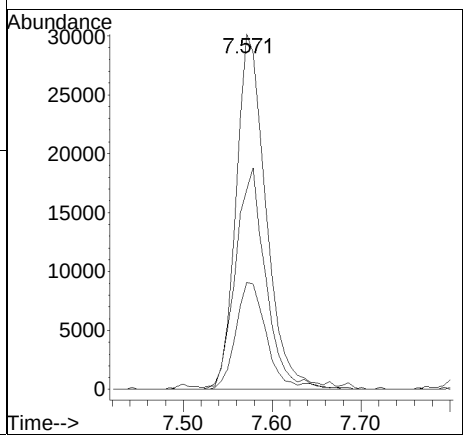


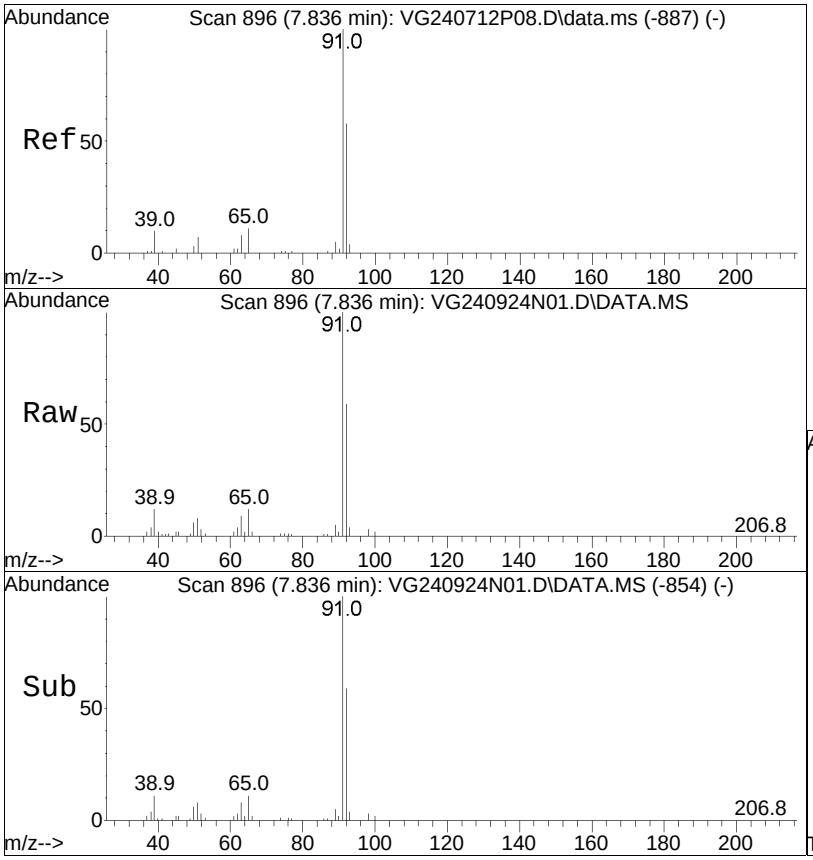


#58
cis-1,3-Dichloropropene
Concen: 8.80 ug/L
RT: 7.571 min Scan# 859
Delta R.T. -0.008 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 75 Resp: 71249

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.6	36.8
39	63.0	40.8	61.2#

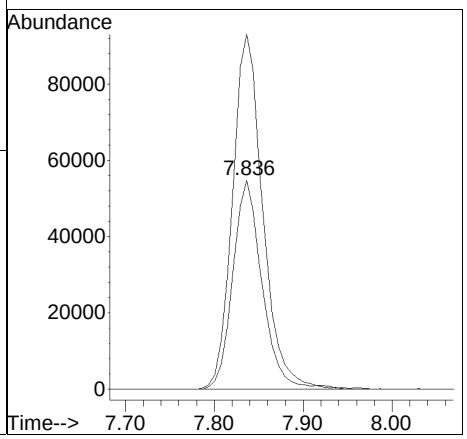


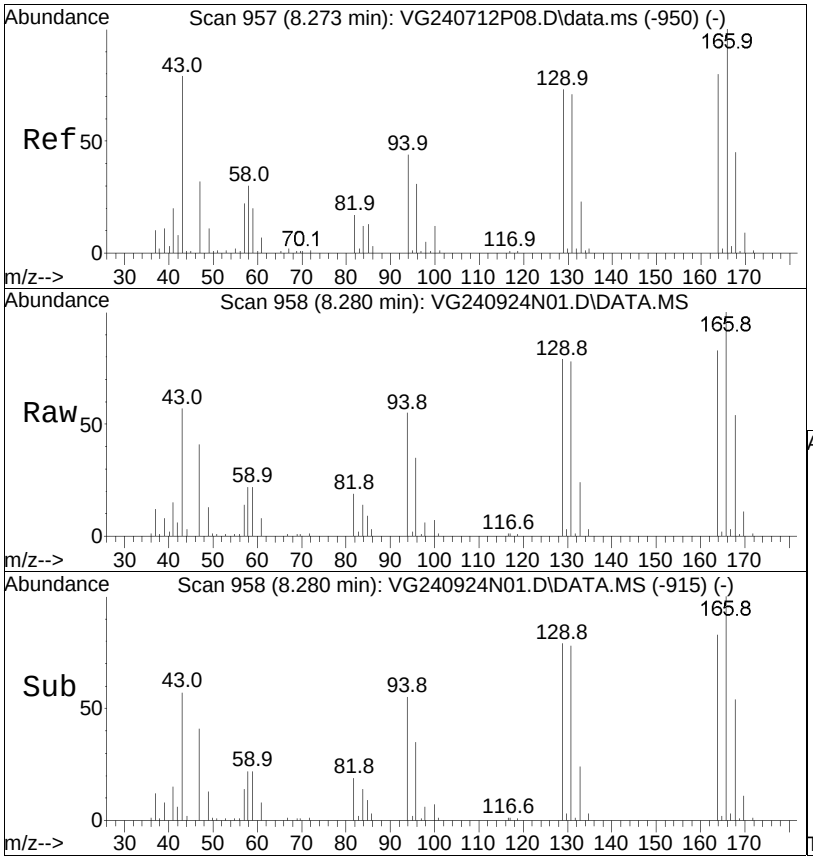


#61
Toluene
Concen: 9.71 ug/L
RT: 7.836 min Scan# 896
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 92 Resp: 125728

Ion	Ratio	Lower	Upper
92	100		
91	175.9	134.8	202.2

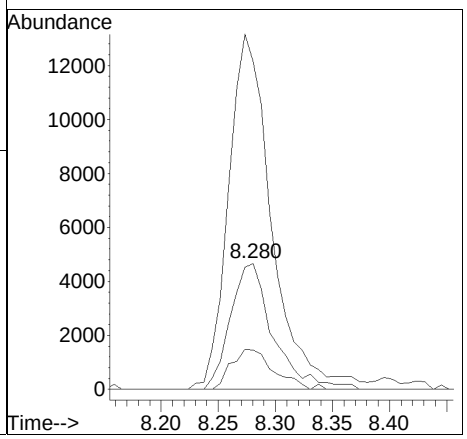


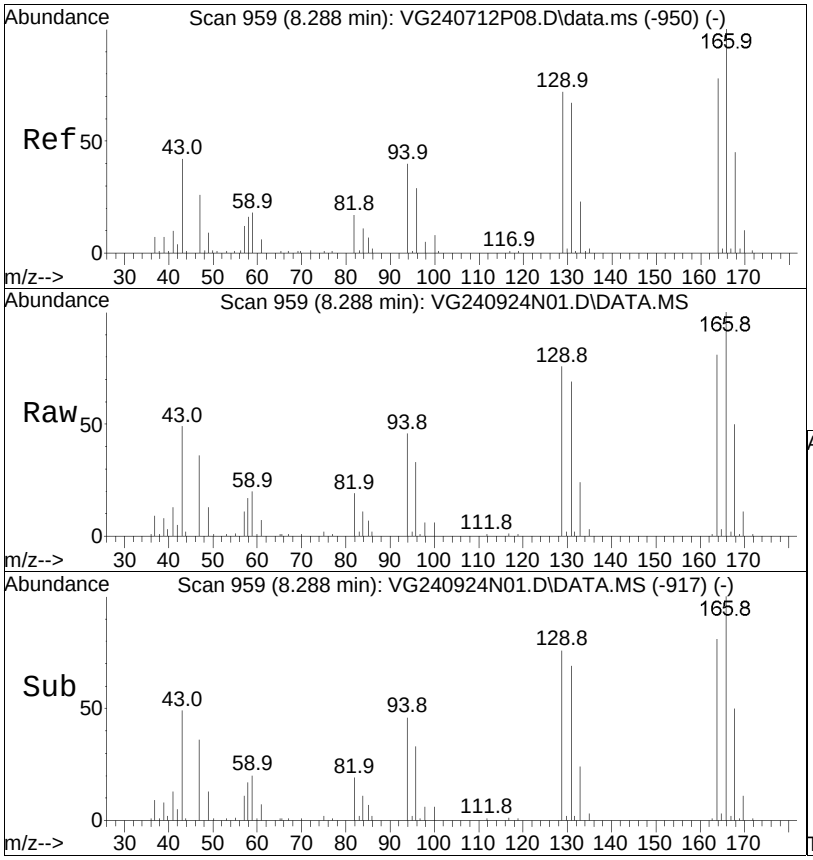


#62
4-Methyl-2-pentanone
Concen: 8.50 ug/L
RT: 8.280 min Scan# 958
Delta R.T. 0.007 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 58 Resp: 12140

Ion	Ratio	Lower	Upper
58	100		
100	32.0	33.6	50.4#
43	285.8	204.3	306.5

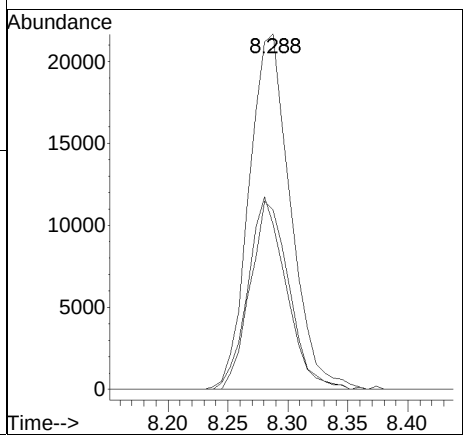


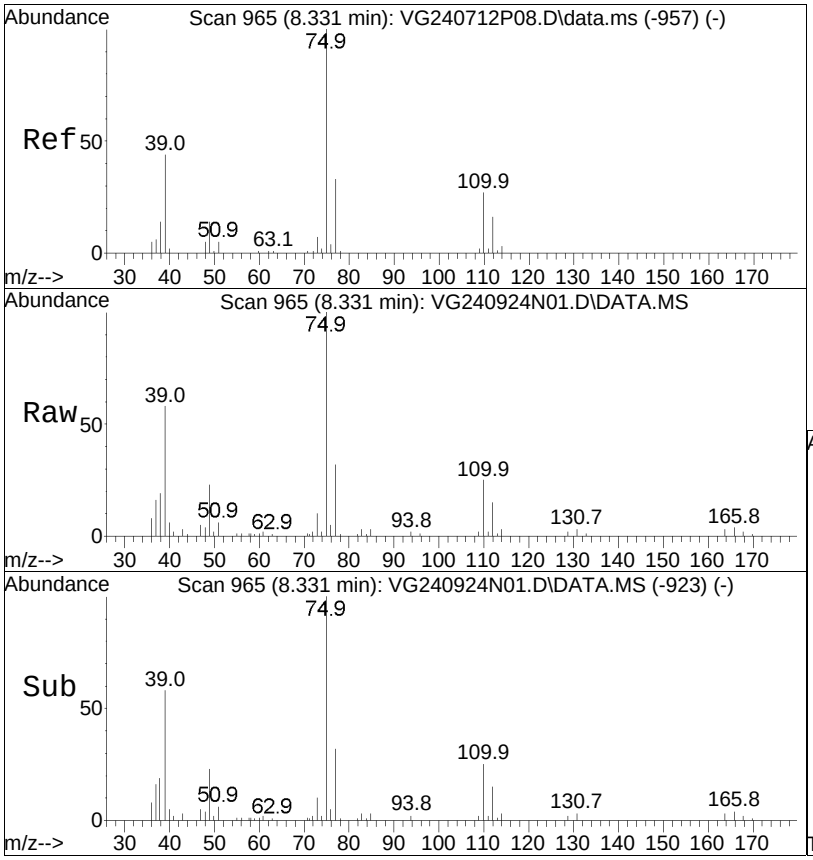


#63
Tetrachloroethene
Concen: 9.17 ug/L
RT: 8.288 min Scan# 959
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:166 Resp: 52130

Ion	Ratio	Lower	Upper
166	100		
168	49.8	27.3	67.3
94	50.1	20.5	60.5

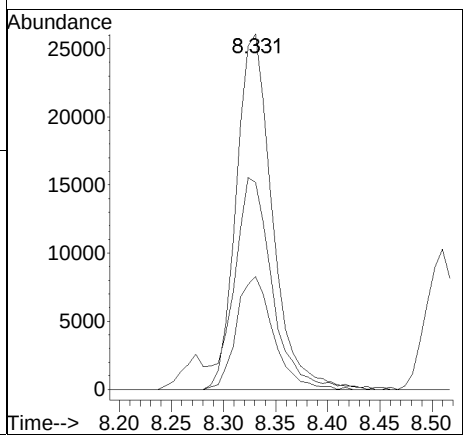


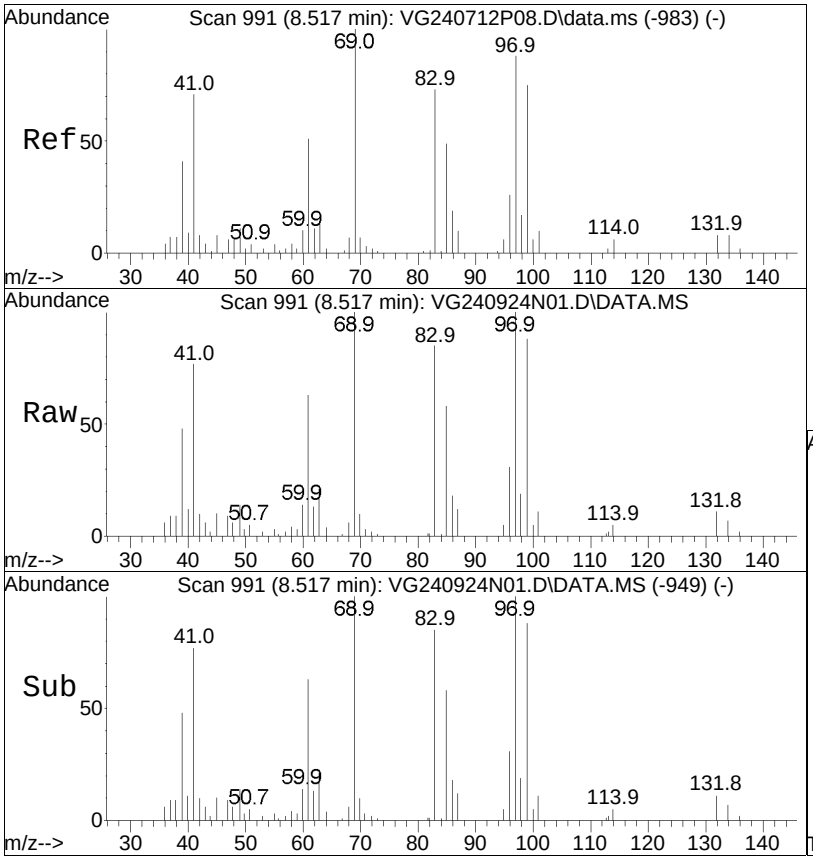


#65
trans-1,3-Dichloropropene
Concen: 8.81 ug/L
RT: 8.331 min Scan# 965
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 75 Resp: 62505

Ion	Ratio	Lower	Upper
75	100		
77	32.7	11.3	51.3
39	62.3	36.0	76.0

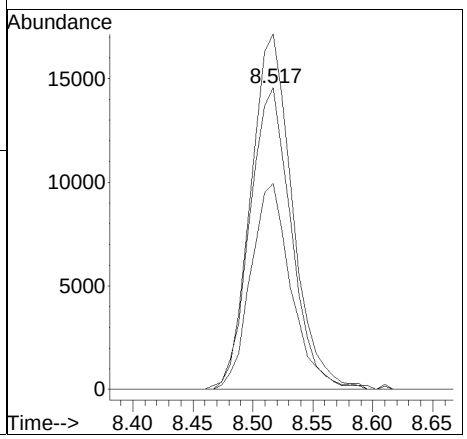


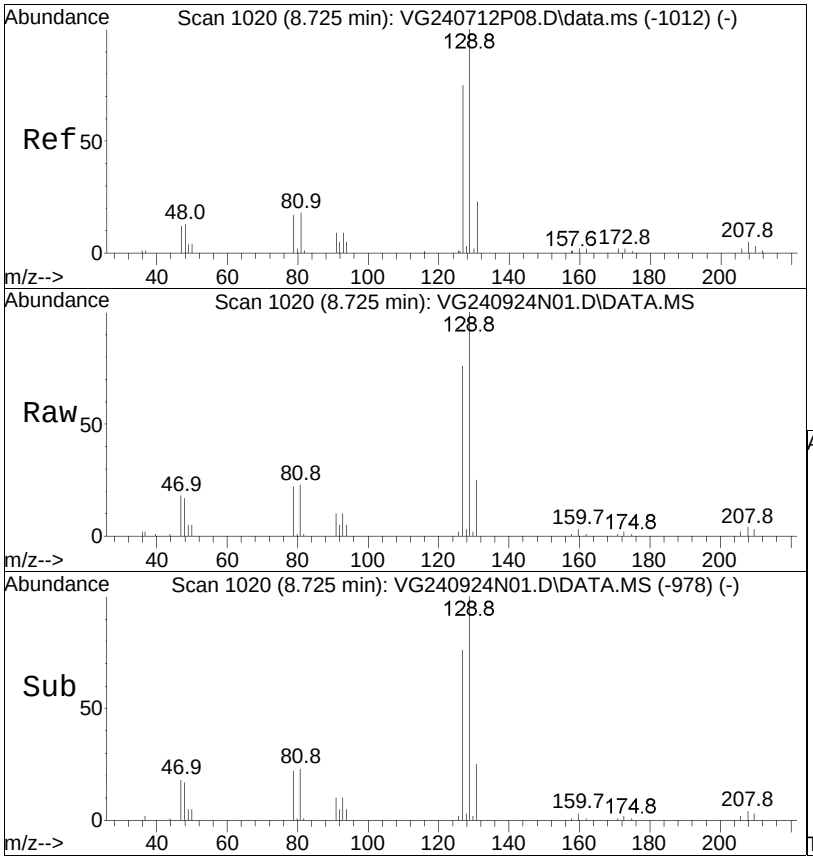


#68
1,1,2-Trichloroethane
Concen: 9.85 ug/L
RT: 8.517 min Scan# 991
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 83 Resp: 35010

Ion	Ratio	Lower	Upper
83	100		
97	118.1	101.0	141.0
85	66.9	47.9	87.9

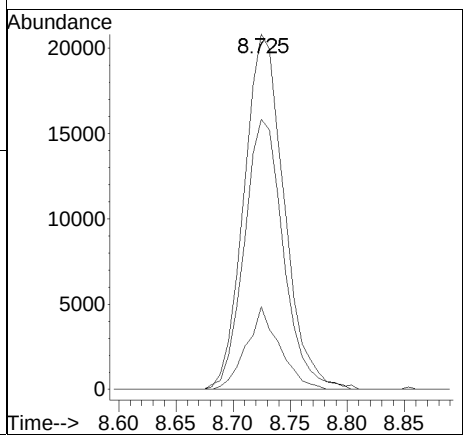


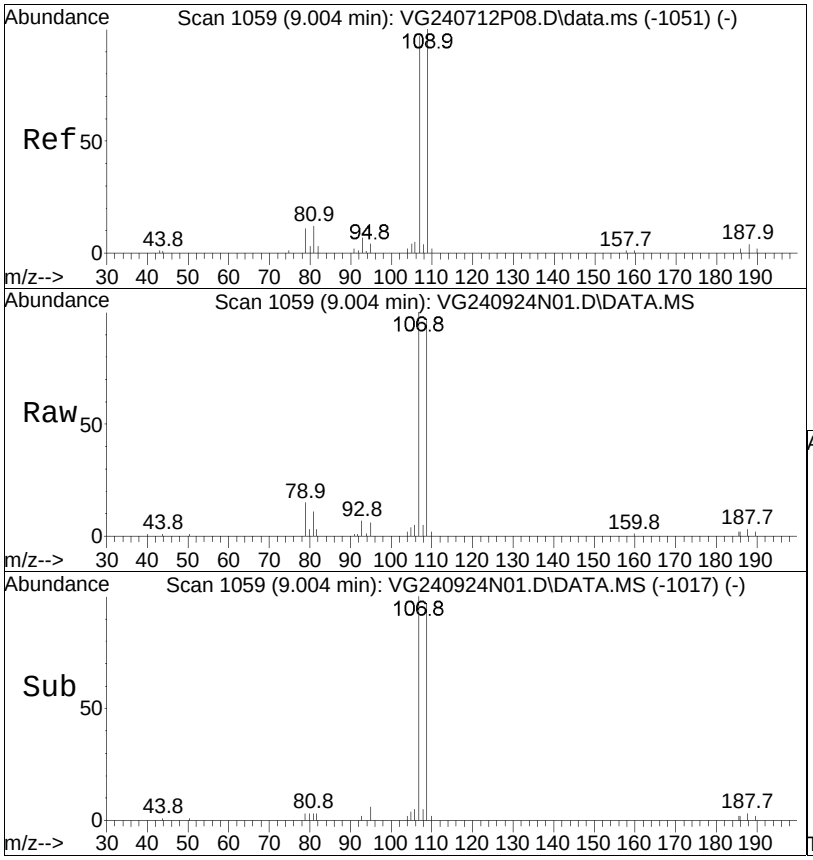


#69
Chlorodibromomethane
Concen: 9.06 ug/L
RT: 8.725 min Scan# 1020
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:129 Resp: 50904

Ion	Ratio	Lower	Upper
129	100		
81	19.3	0.0	35.0
127	74.3	57.1	97.1

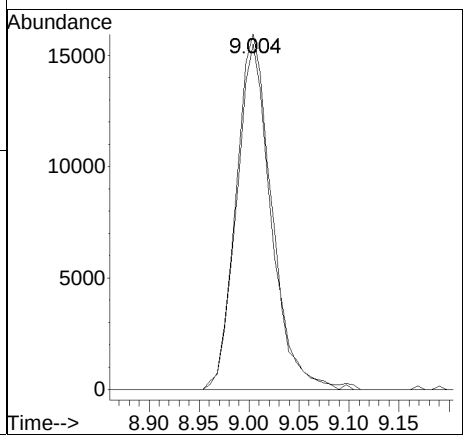


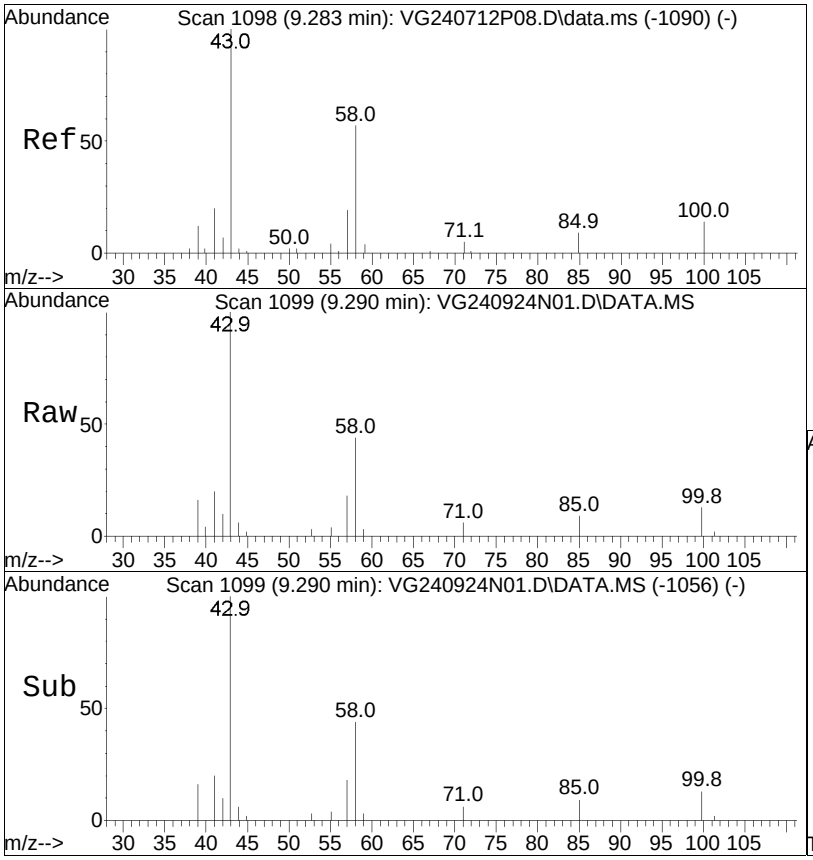


#71
1,2-Dibromoethane
Concen: 8.77 ug/L
RT: 9.004 min Scan# 1059
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:107 Resp: 39564

Ion	Ratio	Lower	Upper
107	100		
109	94.4	76.0	114.0

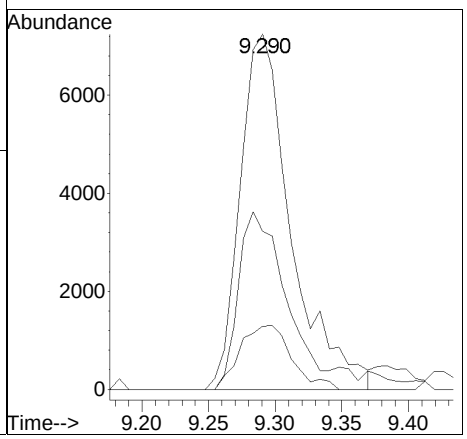


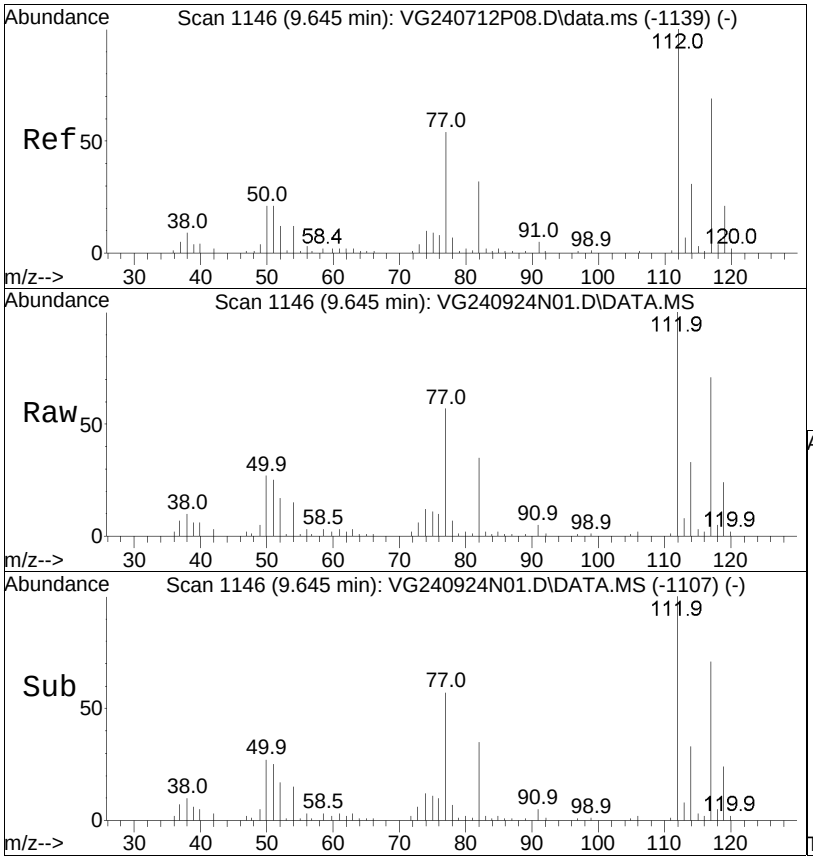


#72
2-Hexanone
Concen: 7.28 ug/L
RT: 9.290 min Scan# 1099
Delta R.T. 0.007 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 43 Resp: 19272

Ion	Ratio	Lower	Upper
43	100		
58	49.0	43.8	65.6
57	18.2	15.2	22.8

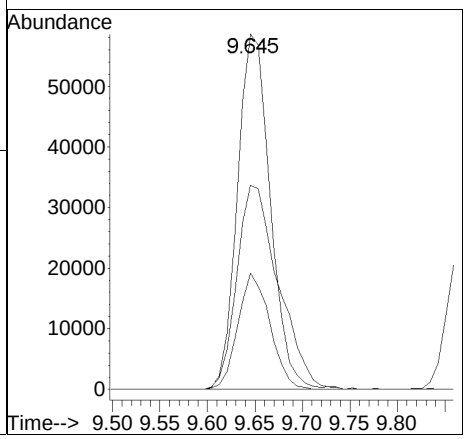


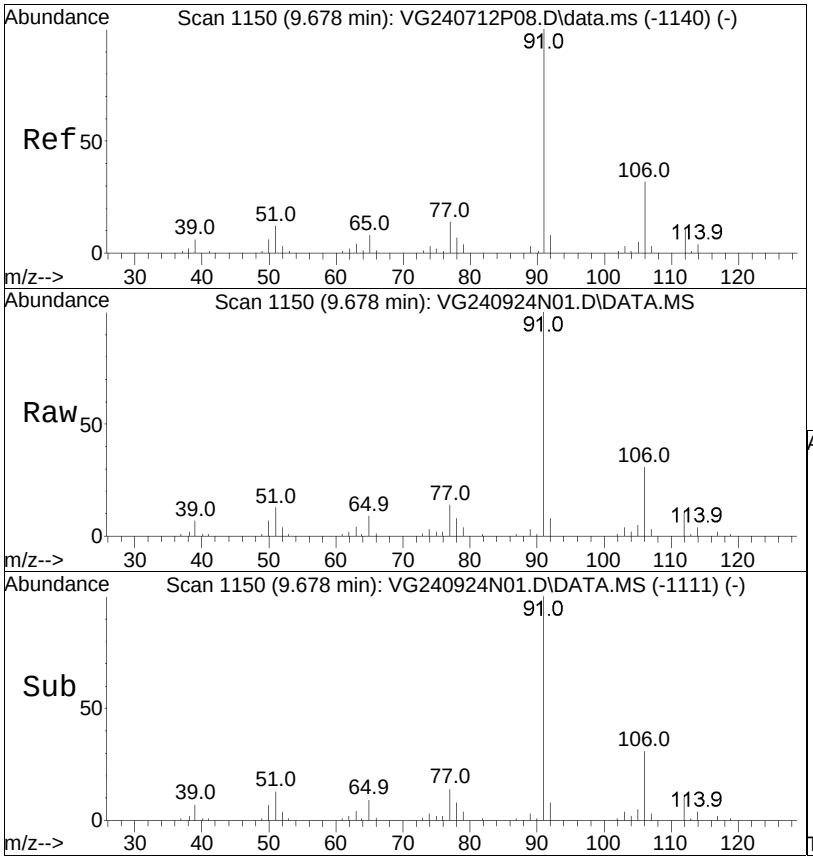


#73
Chlorobenzene
Concen: 9.78 ug/L
RT: 9.645 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:112 Resp: 141188

Ion	Ratio	Lower	Upper
112	100		
77	72.5	55.9	83.9
114	31.9	25.4	38.0

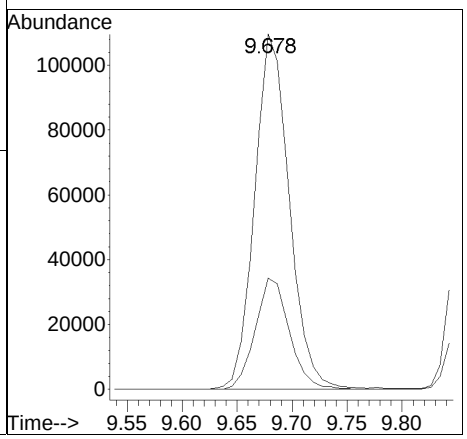


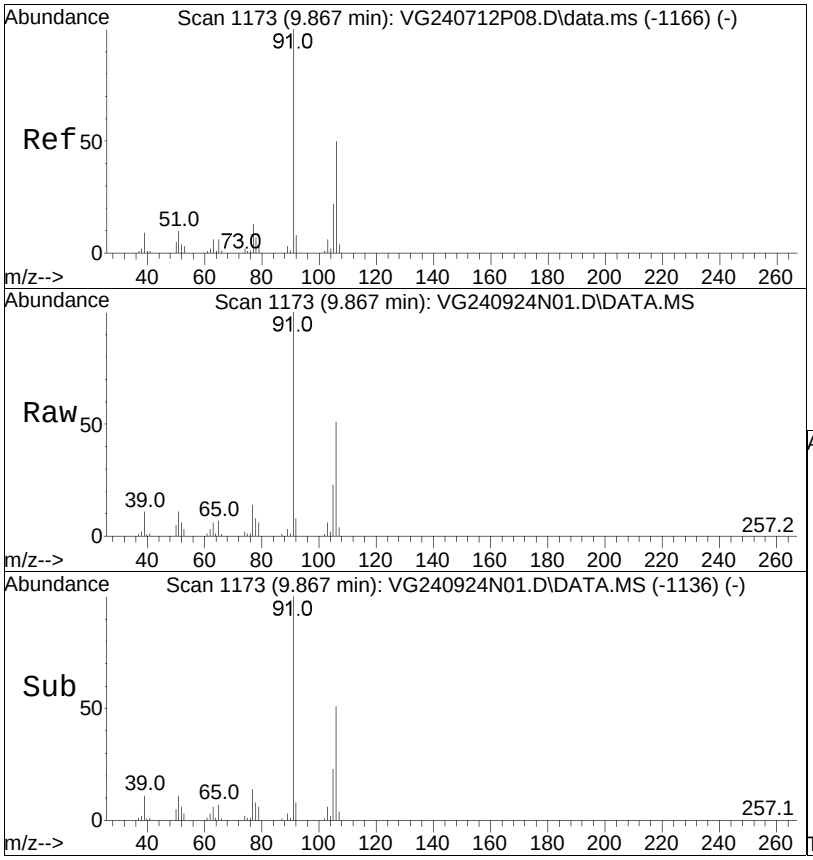


#74
Ethylbenzene
Concen: 9.72 ug/L
RT: 9.678 min Scan# 1150
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 91 Resp: 240408

Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.3	37.9

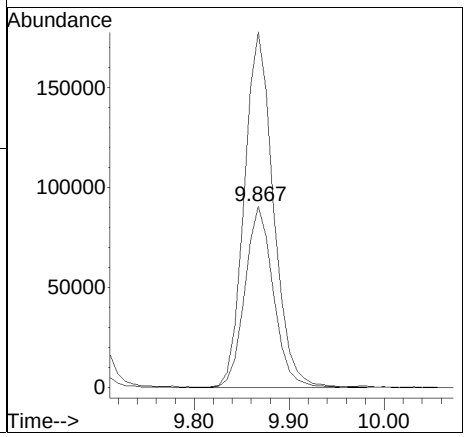


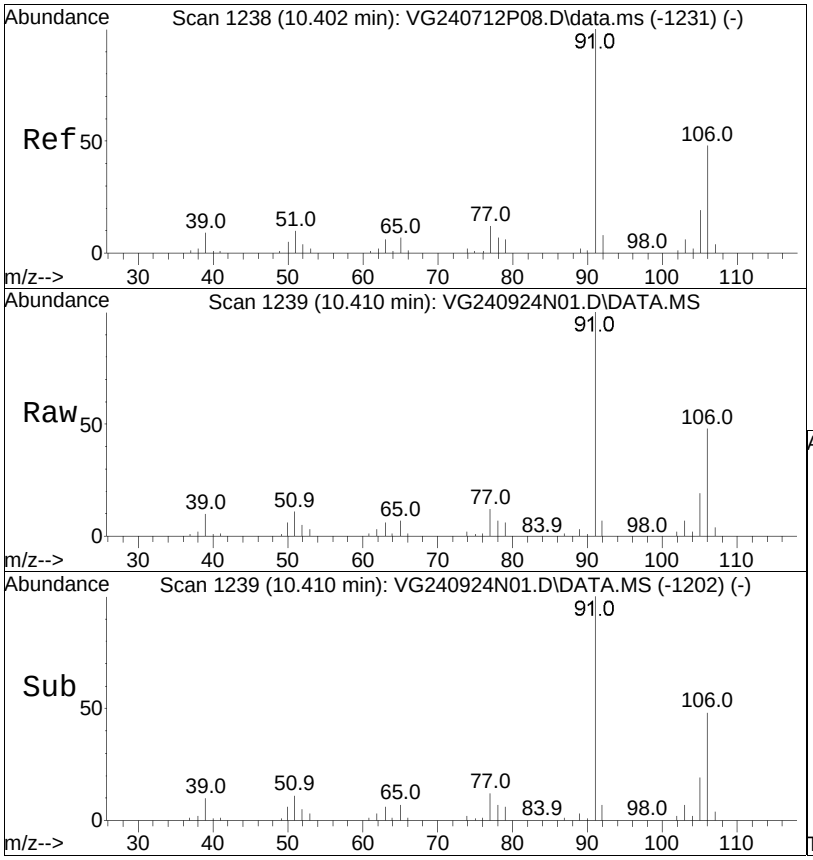


#76
p/m Xylene
Concen: 19.30 ug/L
RT: 9.867 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:106 Resp: 188776

Ion	Ratio	Lower	Upper
106	100		
91	199.5	157.1	235.7

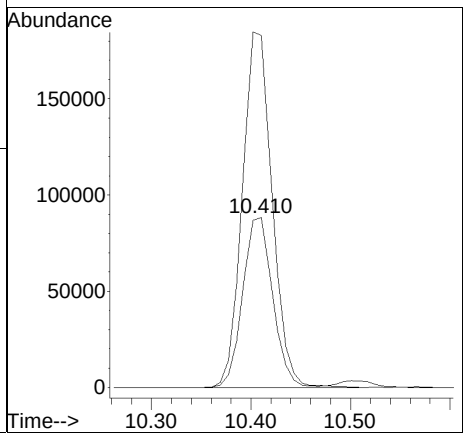


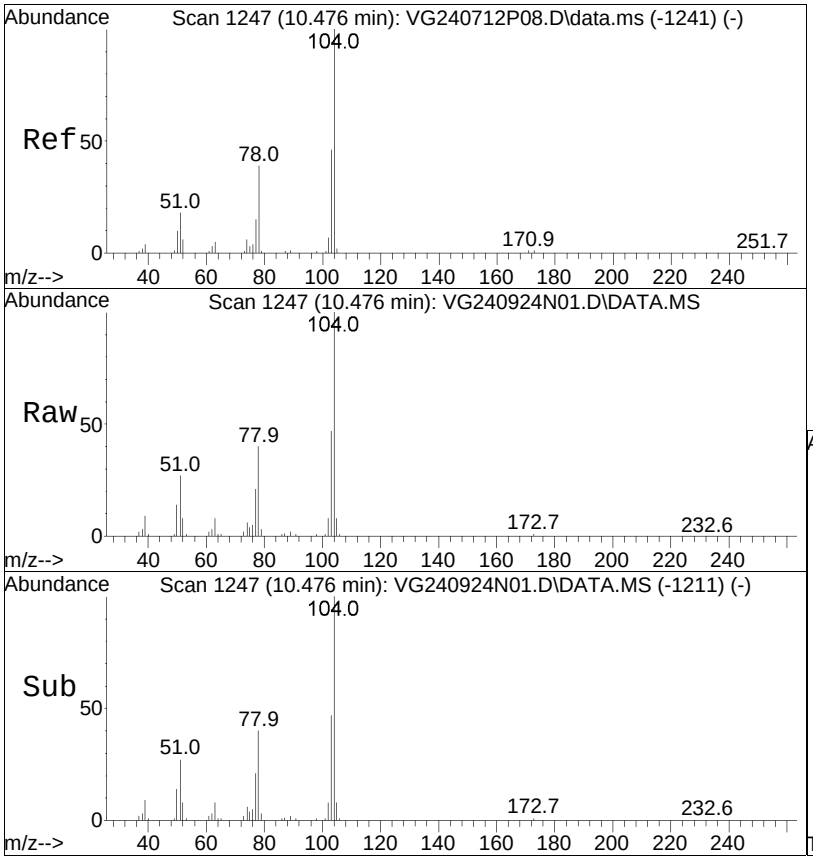


#77
o Xylene
Concen: 19.58 ug/L
RT: 10.410 min Scan# 1239
Delta R.T. 0.008 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:106 Resp: 185532

Ion	Ratio	Lower	Upper
106	100		
91	206.5	164.7	247.1

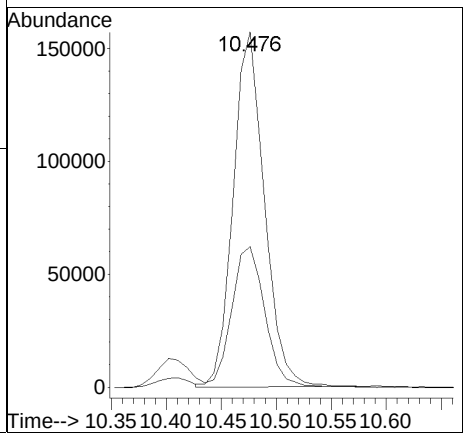


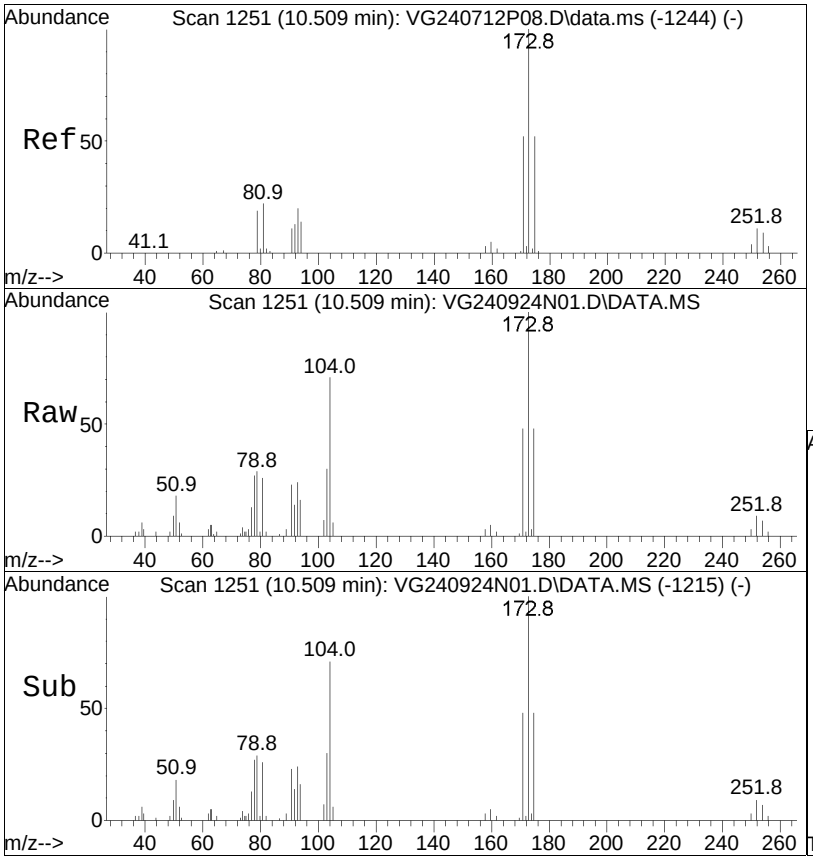


#78
Styrene
Concen: 19.30 ug/L
RT: 10.476 min Scan# 1247
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:104 Resp: 309869

Ion	Ratio	Lower	Upper
104	100		
78	42.5	32.2	48.4

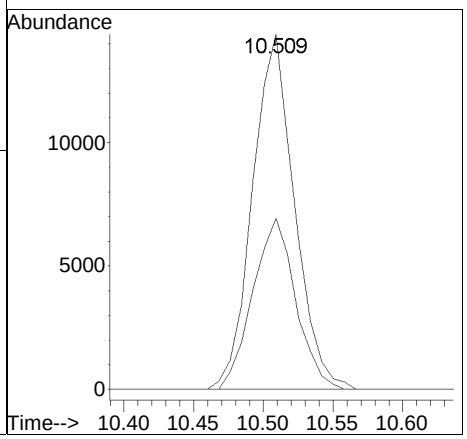


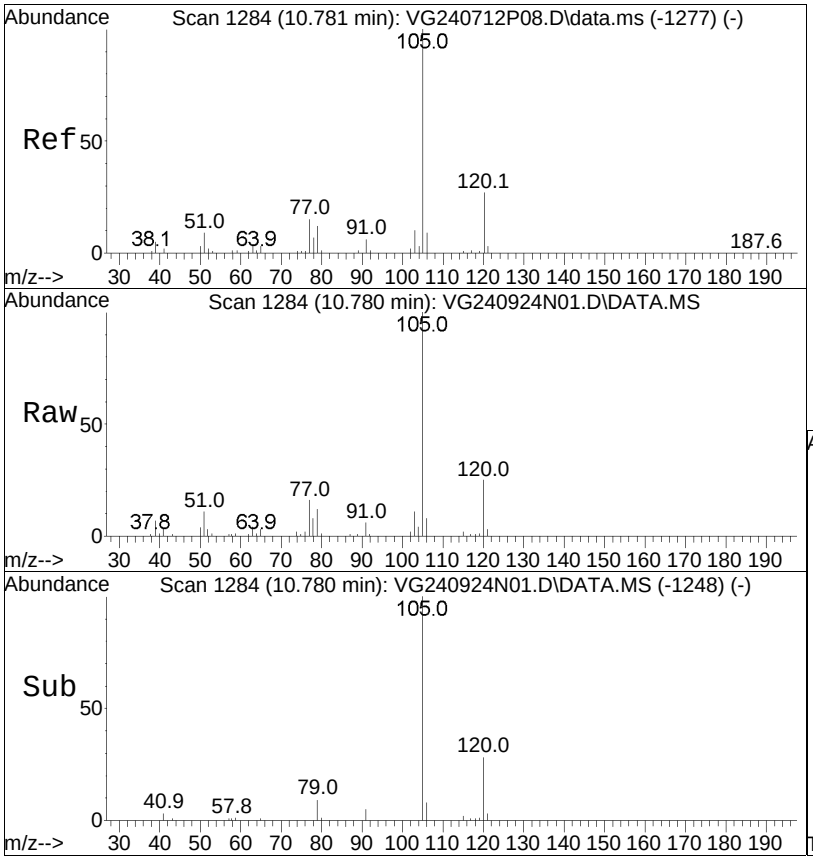


#80
Bromoform
Concen: 7.92 ug/L
RT: 10.509 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:173 Resp: 30097

Ion	Ratio	Lower	Upper
173	100		
175	49.2	28.0	68.0

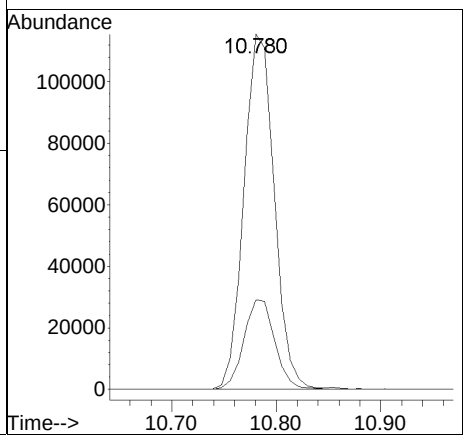


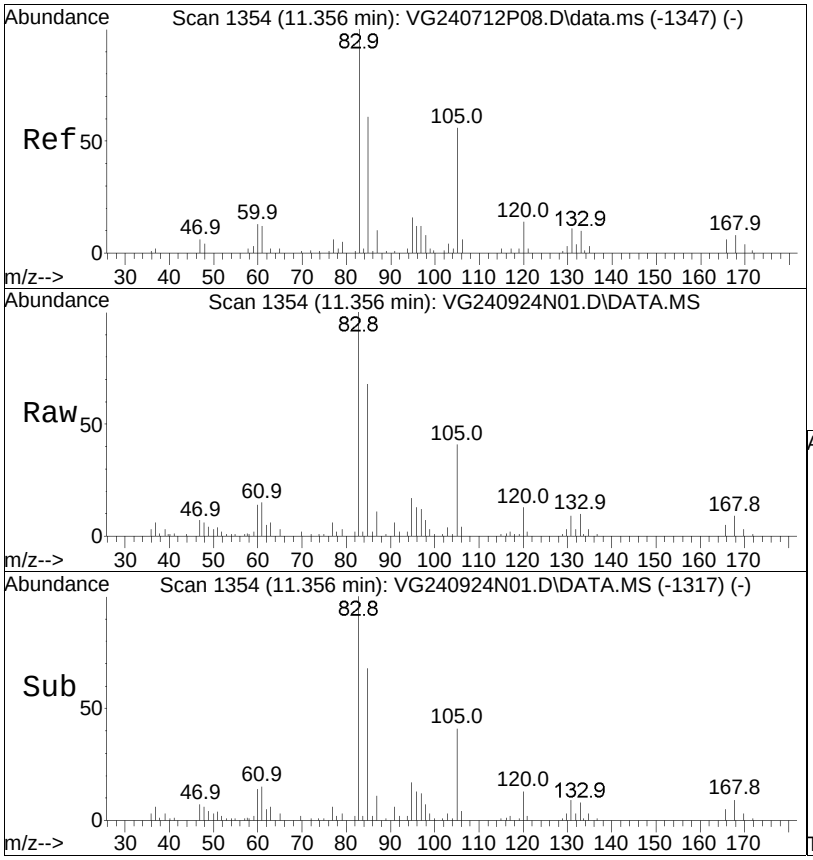


#82
Isopropylbenzene
Concen: 9.75 ug/L
RT: 10.780 min Scan# 1284
Delta R.T. -0.001 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:105 Resp: 234042

Ion	Ratio	Lower	Upper
105	100		
120	25.7	7.0	47.0

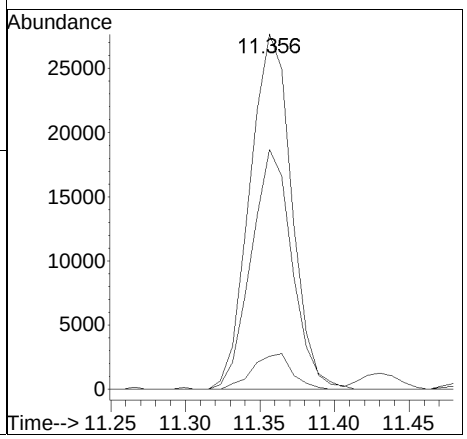


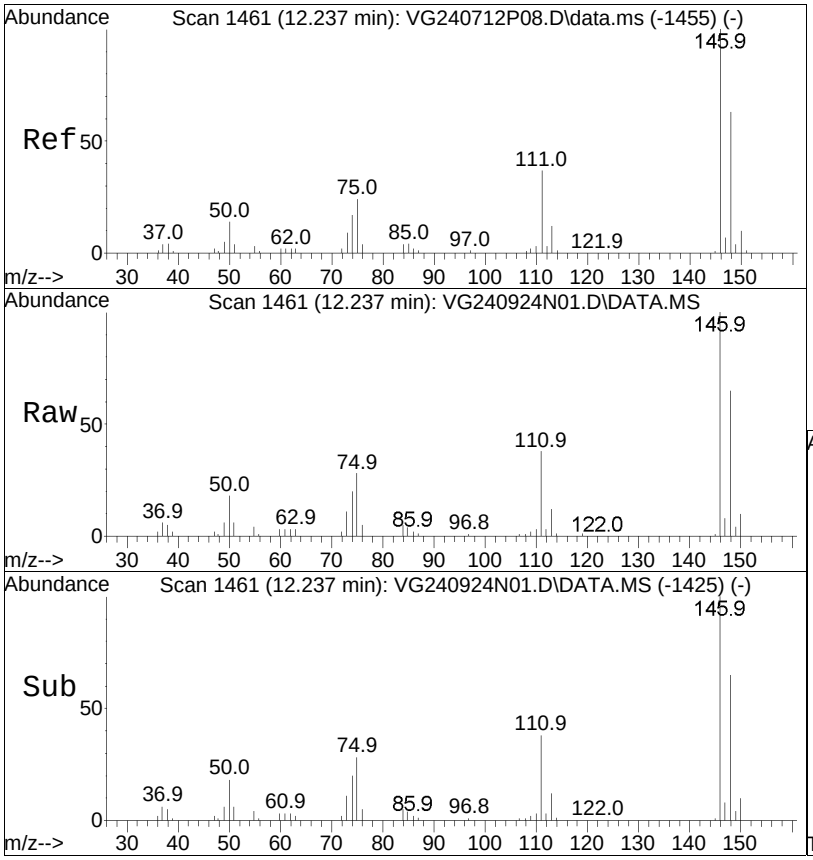


#87
1,1,2,2-Tetrachloroethane
Concen: 10.11 ug/L
RT: 11.356 min Scan# 1354
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion: 83 Resp: 53907

Ion	Ratio	Lower	Upper
83	100		
131	9.6	0.0	31.0
85	66.4	43.9	83.9

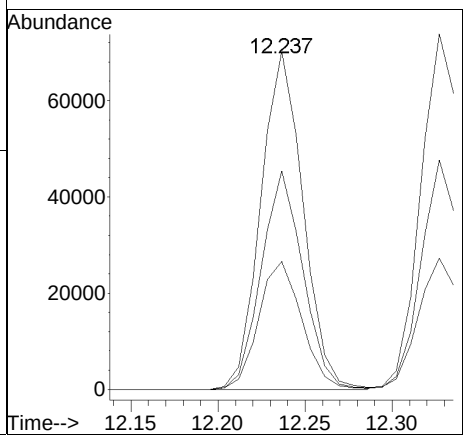


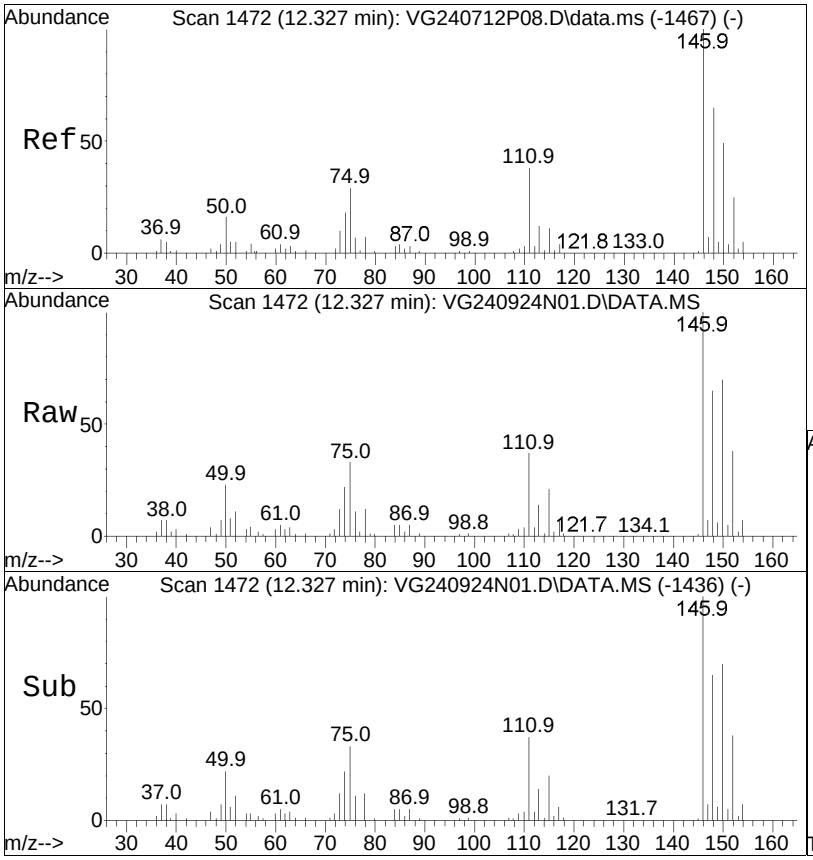


#100
1,3-Dichlorobenzene
Concen: 9.70 ug/L
RT: 12.237 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:146 Resp: 118278

Ion	Ratio	Lower	Upper
146	100		
111	38.8	24.4	50.6
148	63.7	41.0	85.2

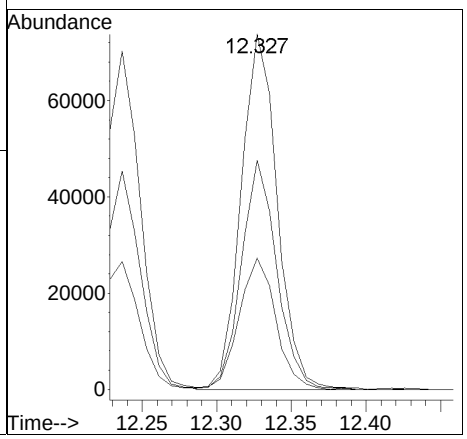


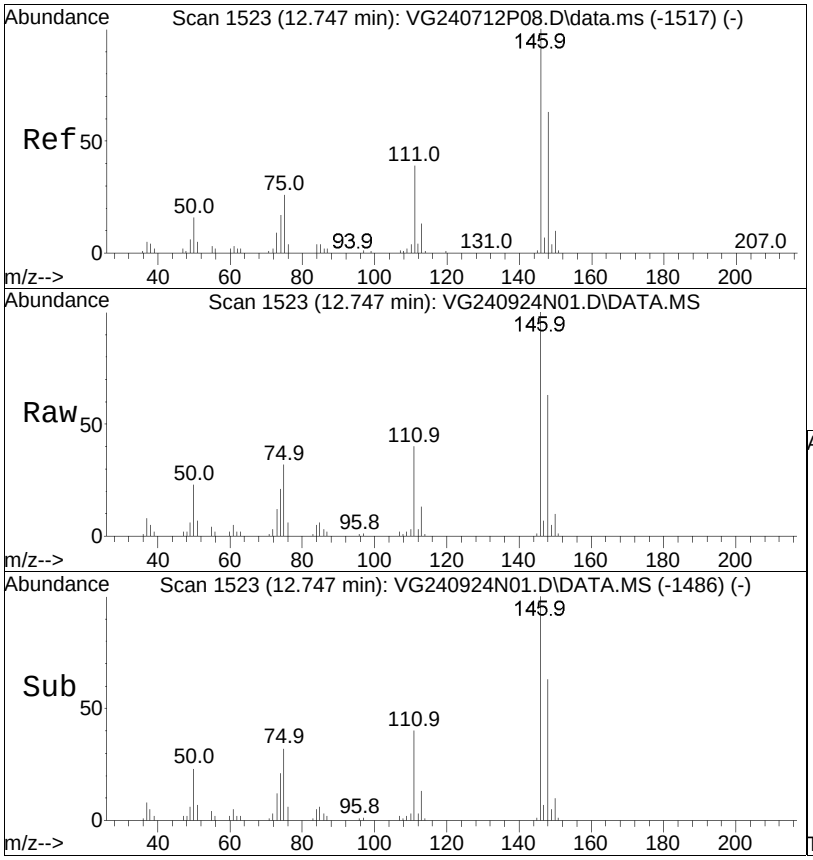


#101
1,4-Dichlorobenzene
Concen: 9.90 ug/L
RT: 12.327 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:146 Resp: 124322

Ion	Ratio	Lower	Upper
146	100		
111	37.7	29.3	43.9
148	63.3	51.2	76.8

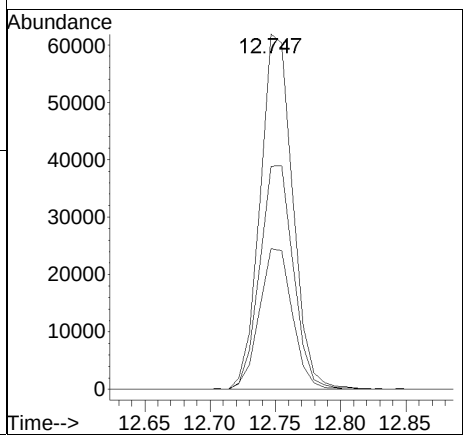


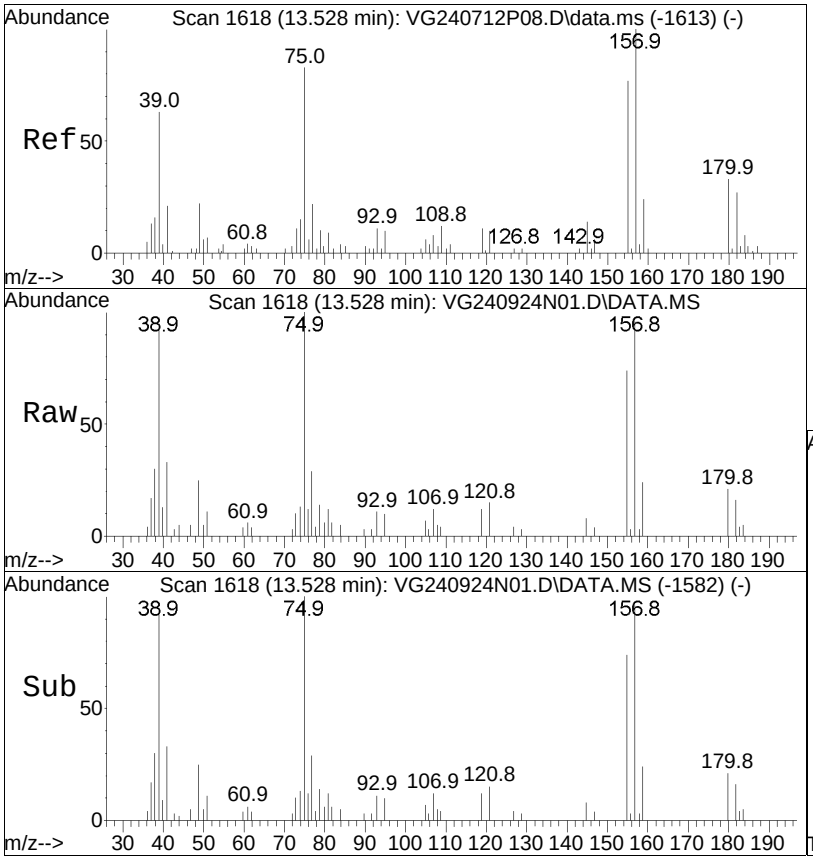


#104
1,2-Dichlorobenzene
Concen: 9.25 ug/L
RT: 12.747 min Scan# 1523
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:146 Resp: 107593

Ion	Ratio	Lower	Upper
146	100		
111	40.1	25.4	52.8
148	64.9	41.7	86.5

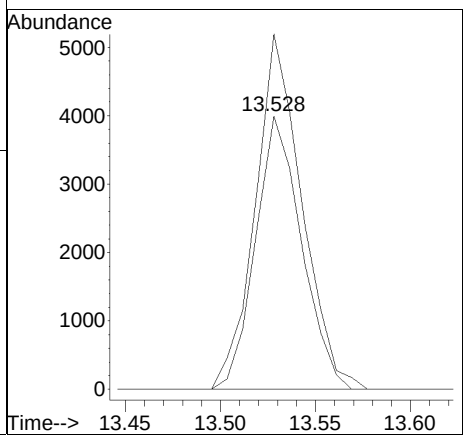


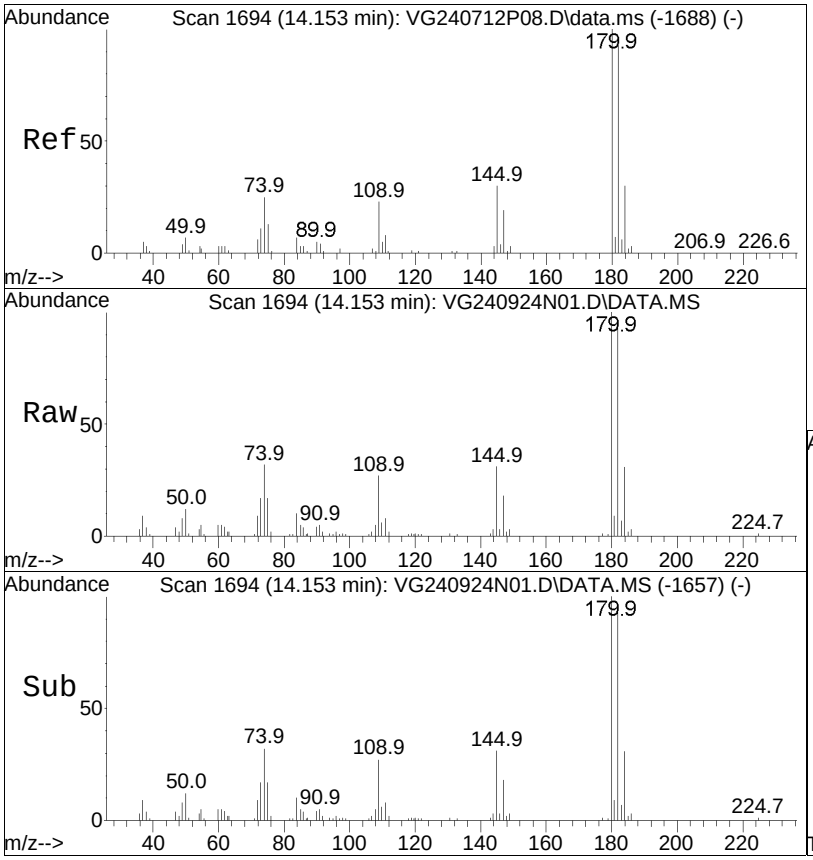


#106
1,2-Dibromo-3-chloropropane
Concen: 6.79 ug/L
RT: 13.528 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:155 Resp: 6714

Ion	Ratio	Lower	Upper
155	100		
157	131.8	99.9	149.9

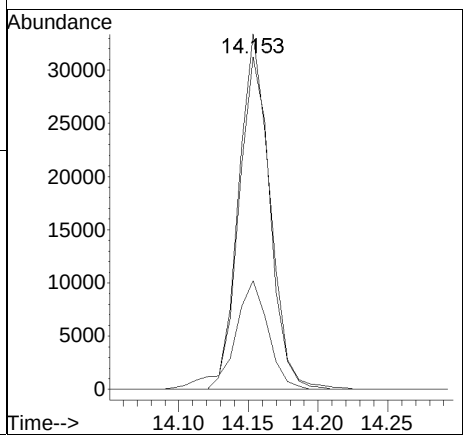


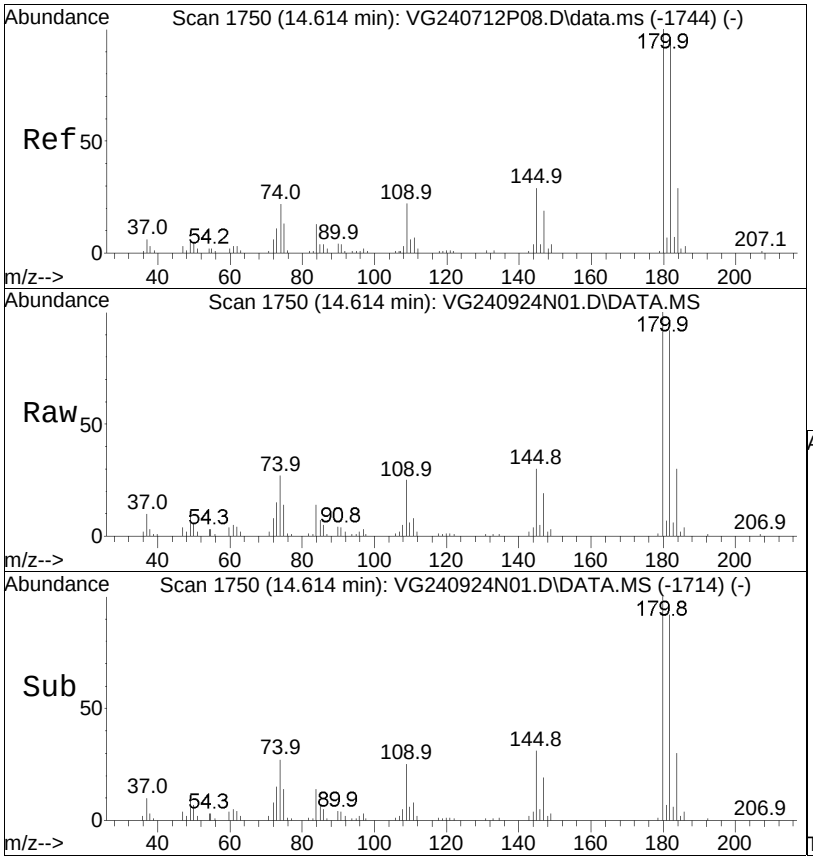


#109
1,2,4-Trichlorobenzene
Concen: 7.87 ug/L
RT: 14.153 min Scan# 1694
Delta R.T. 0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:180 Resp: 52138

Ion	Ratio	Lower	Upper
180	100		
182	93.3	76.7	115.1
145	33.6	26.5	39.7

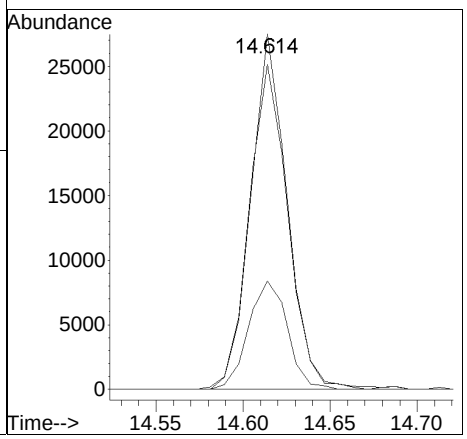




#111
1,2,3-Trichlorobenzene
Concen: 7.22 ug/L
RT: 14.614 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VG240924N01.D
Acq: 24 Sep 2024 7:17 pm

Tgt Ion:180 Resp: 39817

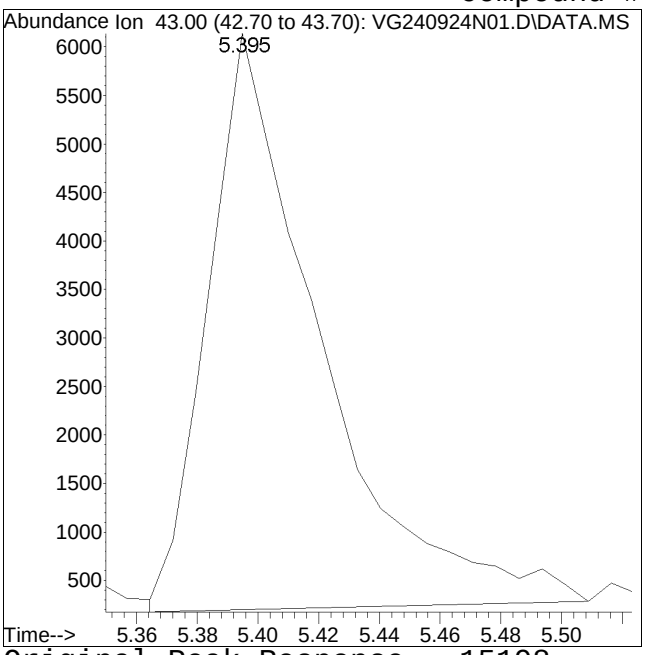
Ion	Ratio	Lower	Upper
180	100		
182	98.1	77.0	115.4
145	32.7	24.1	36.1



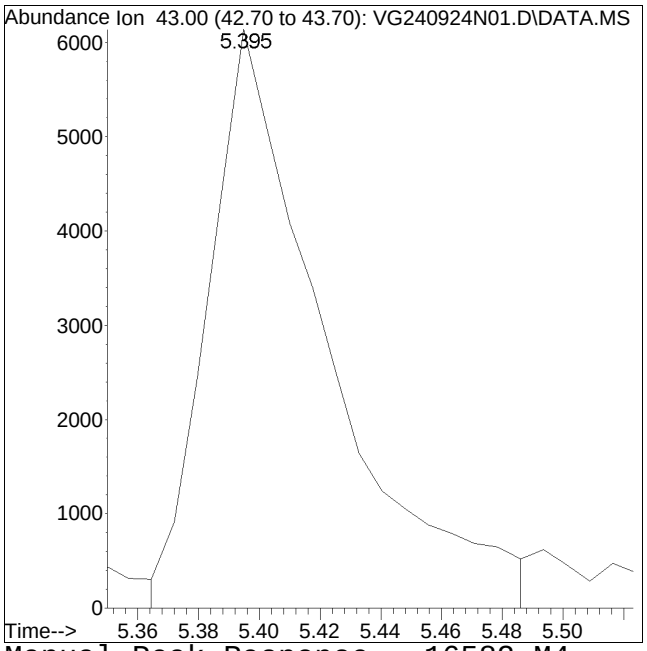
Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N01.D	Operator	: GONZO:MAG
Date Inj'd	: 9/24/2024 7:17 pm	Instrument	: Gonzo
Sample	: WG1976114-3,31,10,10	Quant Date	: 9/24/2024 8:01 pm

Compound #39: 2-Butanone



Original Peak Response = 15198



Manual Peak Response = 16582 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N02.D
Acq On : 24 Sep 2024 7:41 pm
Operator : GONZO:MAG
Sample : WG1976114-4,31,10,10
Misc : WG1976114,ICAL21287
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 20:04:42 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	241506	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 101.77%			
59) Chlorobenzene-d5	9.629	117	182158	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 97.72%			
79) 1,4-Dichlorobenzene-d4	12.311	152	106666	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 99.43%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	62544	9.915	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.15%			
43) 1,2-Dichloroethane-d4	5.805	65	78558	11.723	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.23%			
60) Toluene-d8	7.779	98	234728	10.264	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.64%			
83) 4-Bromofluorobenzene	11.109	95	85074	9.549	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.49%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.672	85	68817	10.733	ug/L	96
3) Chloromethane	1.892	50	52129	9.504	ug/L	99
4) Vinyl chloride	1.946	62	61849	10.885	ug/L	99
5) Bromomethane	2.257	94	23089	7.675	ug/L	98
6) Chloroethane	2.371	64	65334	15.040	ug/L	97
7) Trichlorofluoromethane	2.515	101	80913	9.713	ug/L	98
10) 1,1-Dichloroethene	3.017	96	42513	9.306	ug/L	83
11) Carbon disulfide	3.040	76	135647	10.096	ug/L	99
12) Freon-113	3.047	101	47035	9.383	ug/L #	73
15) Methylene chloride	3.571	84	49276	9.123	ug/L	79
17) Acetone	3.625	43	11102	8.630	ug/L	94
18) trans-1,2-Dichloroethene	3.723	96	45841	9.173	ug/L	90
19) Methyl acetate	3.739	43	27753	9.990	ug/L #	94
20) Methyl tert-butyl ether	3.815	73	137339	8.938	ug/L #	87
23) 1,1-Dichloroethane	4.316	63	90413	9.988	ug/L	98
28) cis-1,2-Dichloroethene	4.833	96	51816	9.017	ug/L	95
30) Bromochloromethane	5.030	128	26610	9.465	ug/L #	83
31) Cyclohexane	5.023	56	81622	9.506	ug/L	79
32) Chloroform	5.098	83	88707	9.573	ug/L	92
34) Carbon tetrachloride	5.228	117	71224	9.484	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N02.D
Acq On : 24 Sep 2024 7:41 pm
Operator : GONZO:MAG
Sample : WG1976114-4,31,10,10
Misc : WG1976114,ICAL21287
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 20:04:42 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	1,1,1-Trichloroethane	5.296	97	80212	9.386	ug/L		95
39)	2-Butanone	5.395	43	19485M4	11.124	ug/L		
41)	Benzene	5.661	78	204105	9.865	ug/L		95
44)	1,2-Dichloroethane	5.873	62	72037	10.925	ug/L		99
47)	Methyl cyclohexane	6.246	83	67123	8.349	ug/L	#	80
48)	Trichloroethene	6.268	95	53132	9.107	ug/L		98
51)	1,2-Dichloropropane	6.808	63	50813	10.065	ug/L		98
54)	Bromodichloromethane	6.884	83	72181	9.795	ug/L		99
58)	cis-1,3-Dichloropropene	7.571	75	76245	9.251	ug/L		93
61)	Toluene	7.836	92	125004	9.874	ug/L		96
62)	4-Methyl-2-pentanone	8.273	58	13345	9.561	ug/L		80
63)	Tetrachloroethene	8.280	166	51563	9.279	ug/L		93
65)	trans-1,3-Dichloropropene	8.331	75	67258	9.704	ug/L		97
68)	1,1,2-Trichloroethane	8.510	83	36296	10.448	ug/L		97
69)	Chlorodibromomethane	8.725	129	51893	9.448	ug/L		96
71)	1,2-Dibromoethane	9.004	107	43707	9.919	ug/L		98
72)	2-Hexanone	9.290	43	24293	9.385	ug/L		90
73)	Chlorobenzene	9.645	112	140319	9.946	ug/L		99
74)	Ethylbenzene	9.678	91	234474	9.701	ug/L		100
76)	p/m Xylene	9.867	106	182014	19.046	ug/L		95
77)	o Xylene	10.402	106	180828	19.533	ug/L		97
78)	Styrene	10.476	104	308698	19.677	ug/L		97
80)	Bromoform	10.509	173	32332	8.556	ug/L		96
82)	Isopropylbenzene	10.780	105	223417	9.362	ug/L		98
87)	1,1,2,2-Tetrachloroethane	11.356	83	56881	10.725	ug/L		96
100)	1,3-Dichlorobenzene	12.236	146	120417	9.934	ug/L		100
101)	1,4-Dichlorobenzene	12.327	146	124280	9.955	ug/L		99
104)	1,2-Dichlorobenzene	12.747	146	112470	9.728	ug/L		99
106)	1,2-Dibromo-3-chloropr...	13.528	155	8310	8.448	ug/L		98
109)	1,2,4-Trichlorobenzene	14.153	180	56960	8.643	ug/L		97
111)	1,2,3-Trichlorobenzene	14.614	180	45850	8.367	ug/L		98

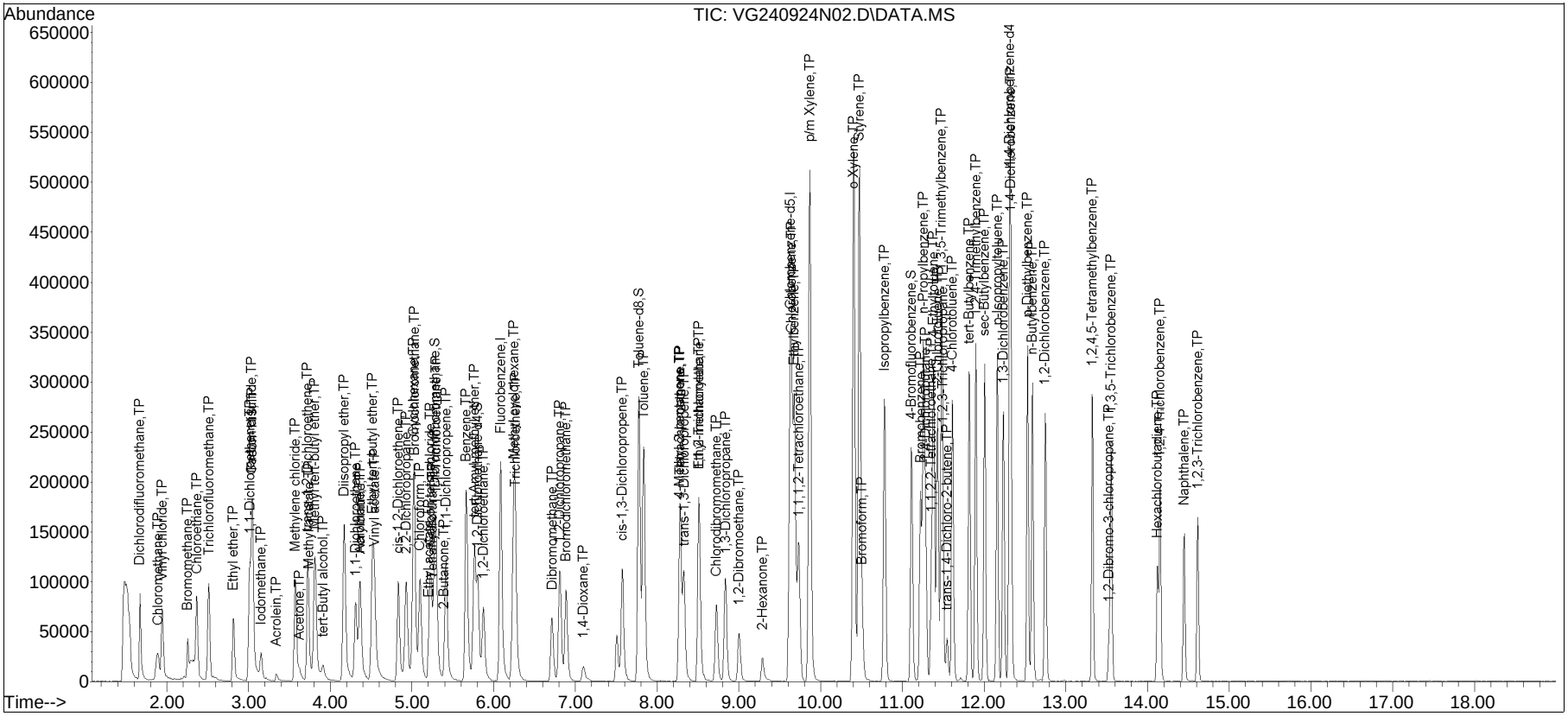
(#) = qualifier out of range (m) = manual integration (+) = signals summed

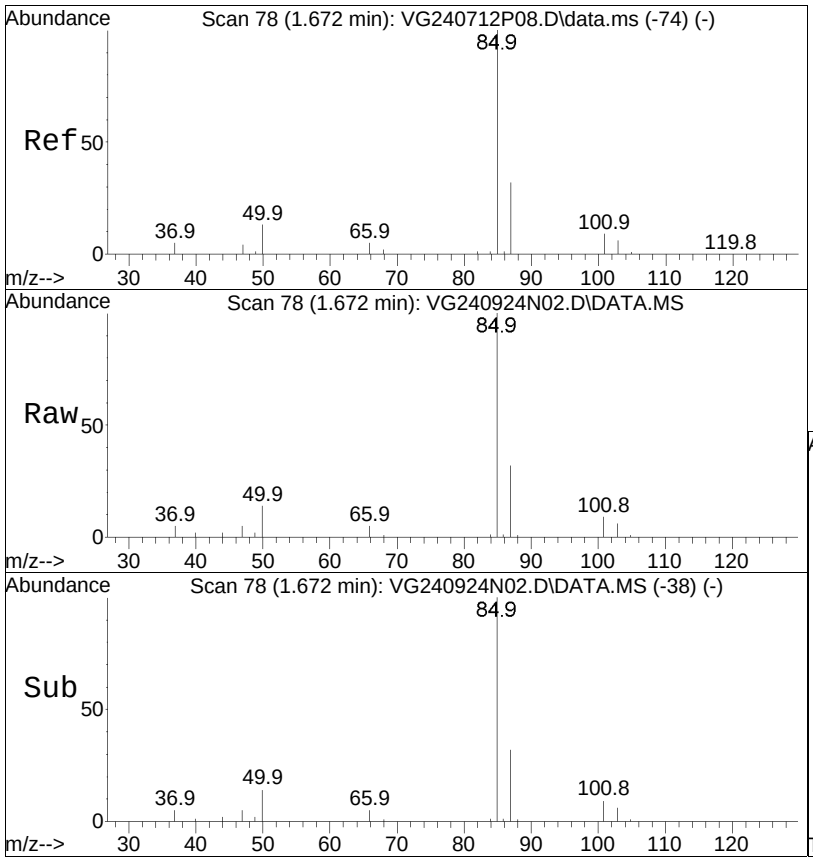
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N02.D
Acq On : 24 Sep 2024 7:41 pm
Operator : GONZO:MAG
Sample : WG1976114-4,31,10,10
Misc : WG1976114,ICAL21287
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 20:04:42 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

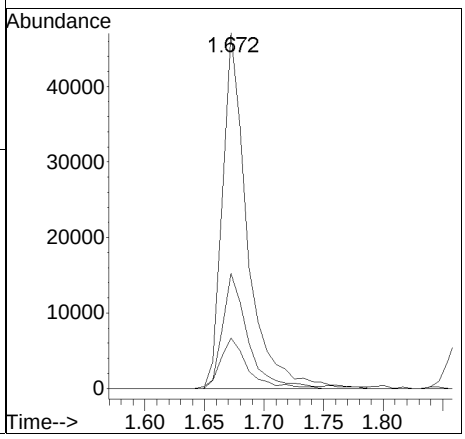


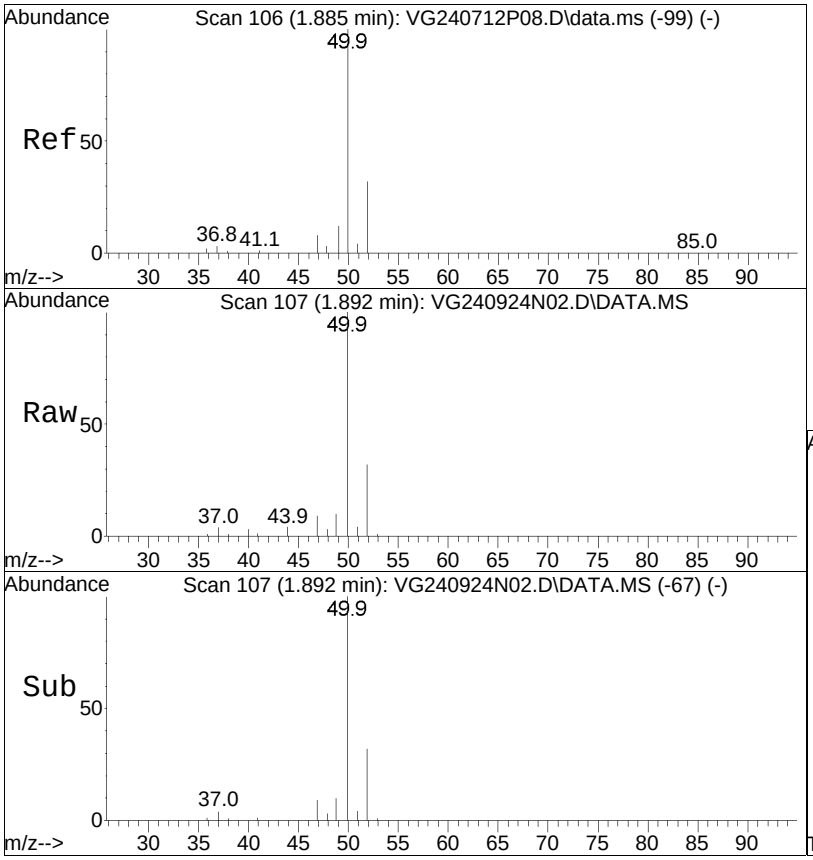


#2
Dichlorodifluoromethane
Concen: 10.73 ug/L
RT: 1.672 min Scan# 78
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 85 Resp: 68817

Ion	Ratio	Lower	Upper
85	100		
87	32.8	20.7	42.9
50	15.2	7.5	15.5

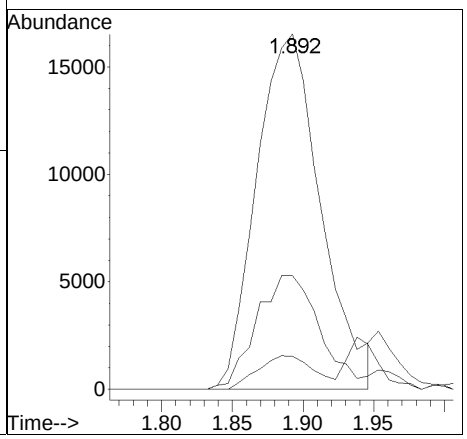


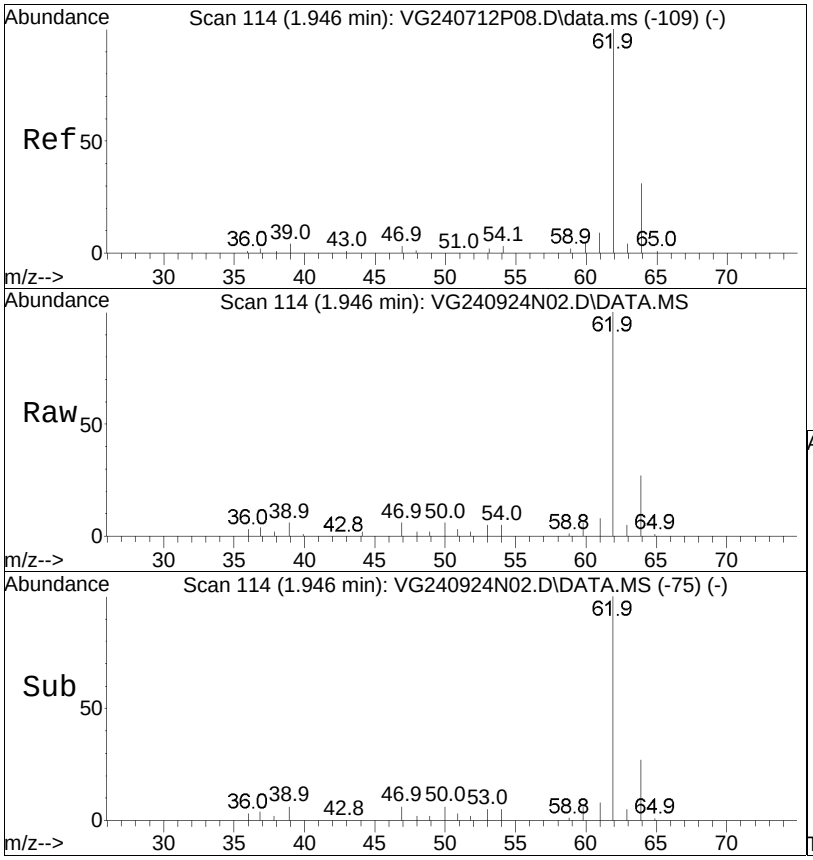


#3
Chloromethane
Concen: 9.50 ug/L
RT: 1.892 min Scan# 107
Delta R.T. 0.007 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 50 Resp: 52129

Ion	Ratio	Lower	Upper
50	100		
52	32.0	11.7	51.7
47	8.5	0.0	28.0

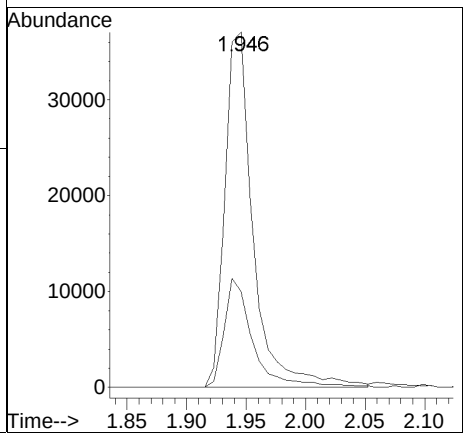


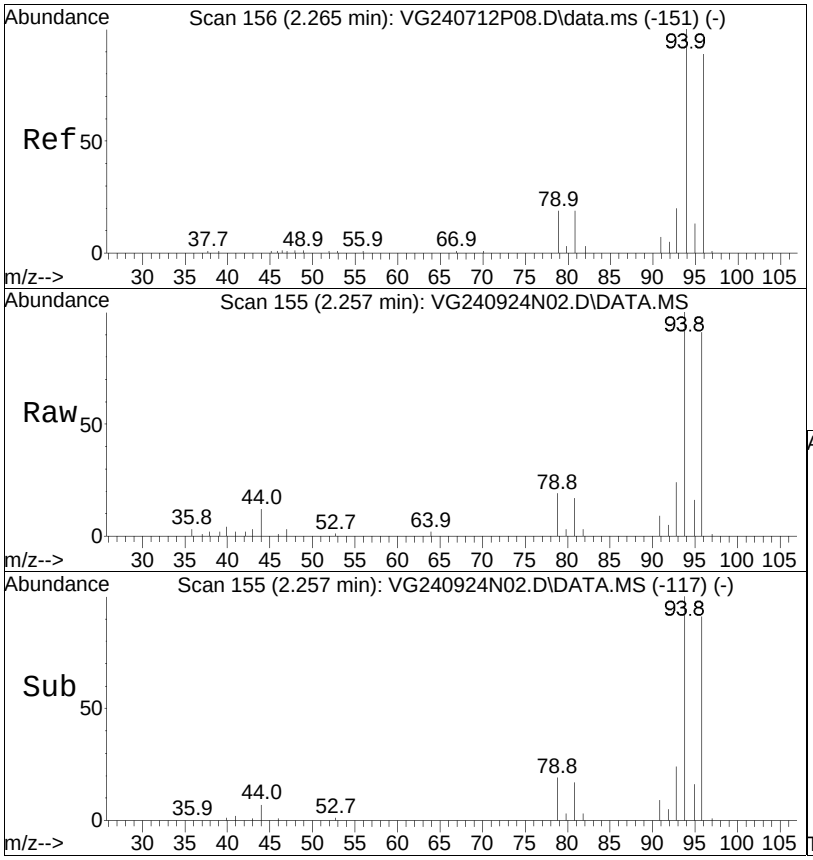


#4
Vinyl chloride
Concen: 10.88 ug/L
RT: 1.946 min Scan# 114
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 62 Resp: 61849

Ion	Ratio	Lower	Upper
62	100		
64	31.0	11.3	51.3

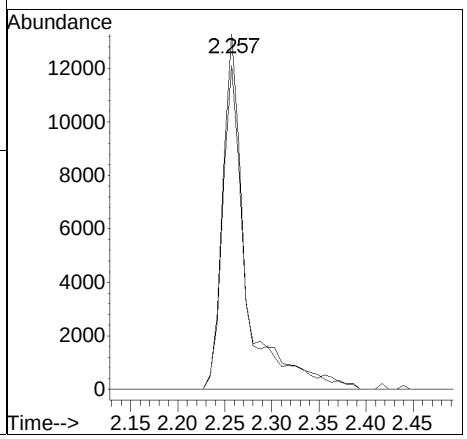


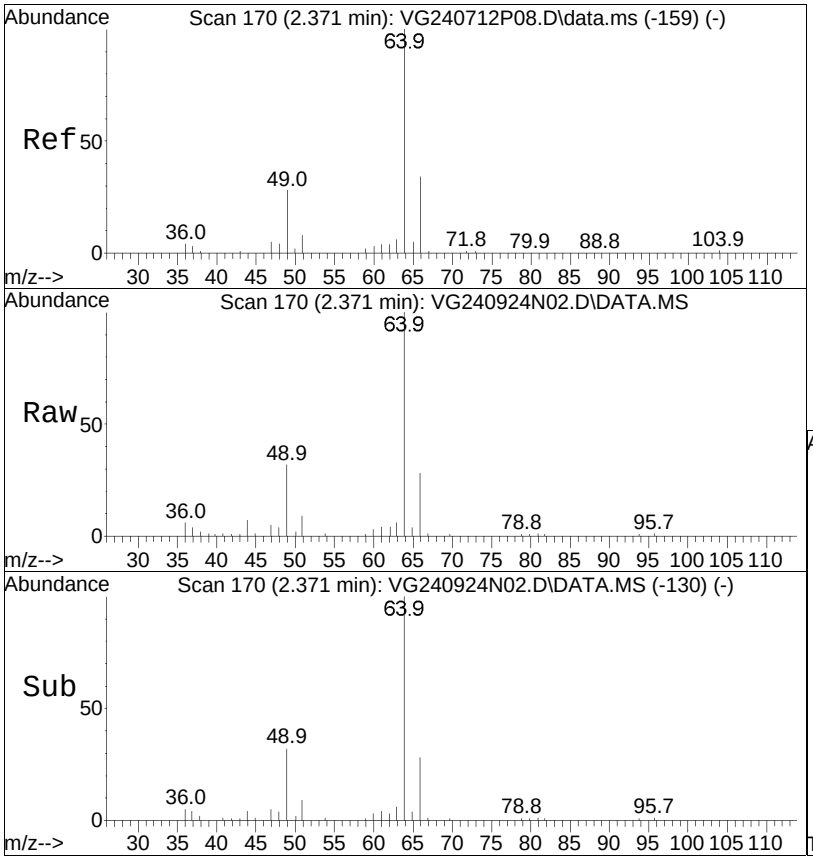


#5
Bromomethane
Concen: 7.67 ug/L
RT: 2.257 min Scan# 155
Delta R.T. -0.008 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 94 Resp: 23089

Ion	Ratio	Lower	Upper
94	100		
96	93.1	75.2	115.2

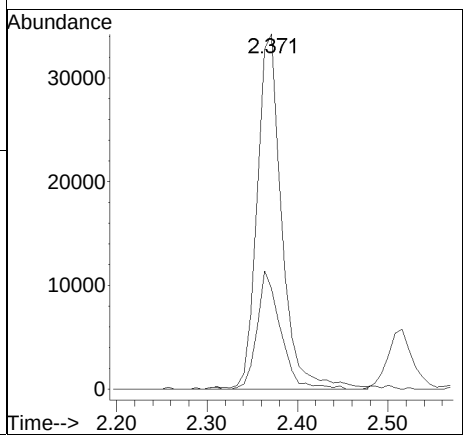


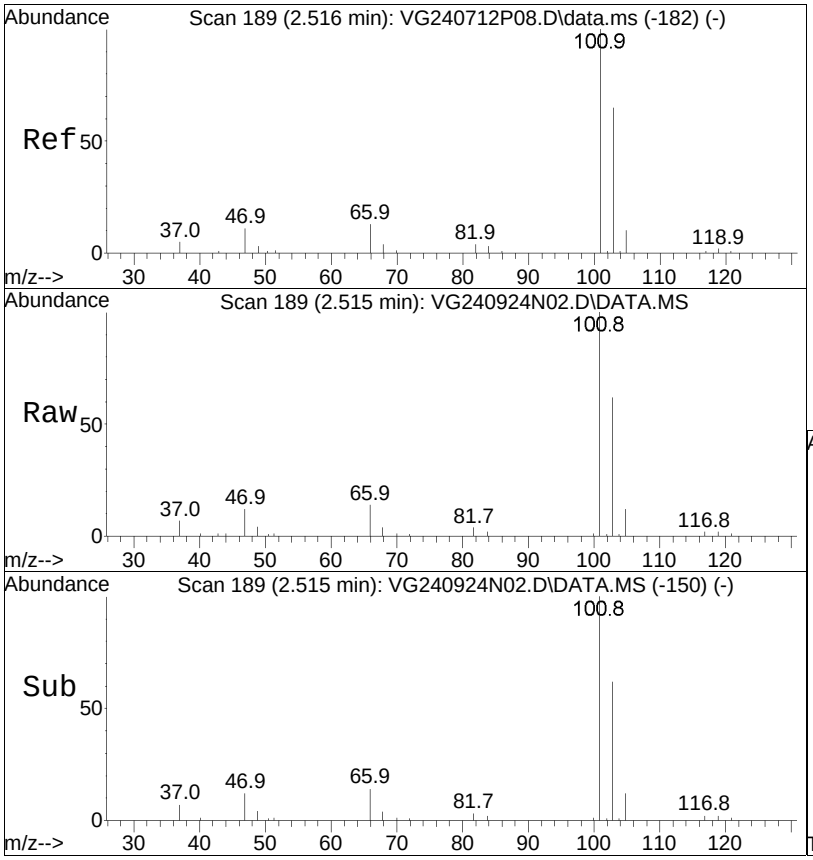


#6
Chloroethane
Concen: 15.04 ug/L
RT: 2.371 min Scan# 170
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 64 Resp: 65334

Ion	Ratio	Lower	Upper
64	100		
66	31.8	13.7	53.7

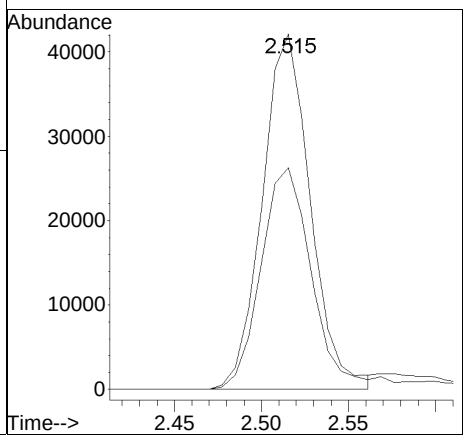


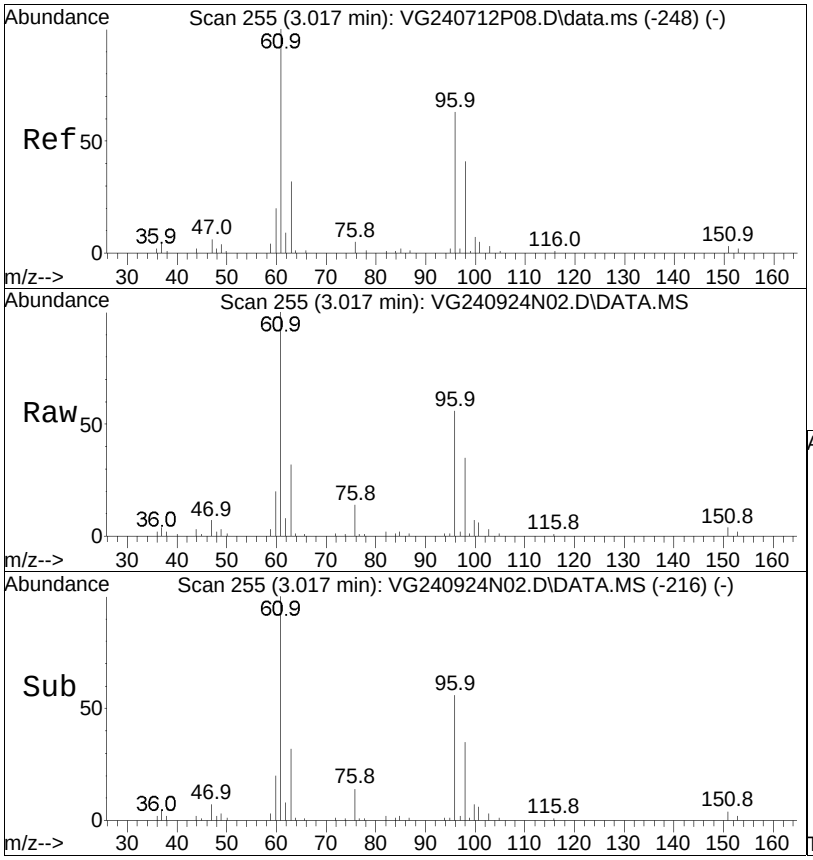


#7
Trichlorofluoromethane
Concen: 9.71 ug/L
RT: 2.515 min Scan# 189
Delta R.T. -0.001 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:101 Resp: 80913

Ion	Ratio	Lower	Upper
101	100		
103	67.0	52.2	78.2

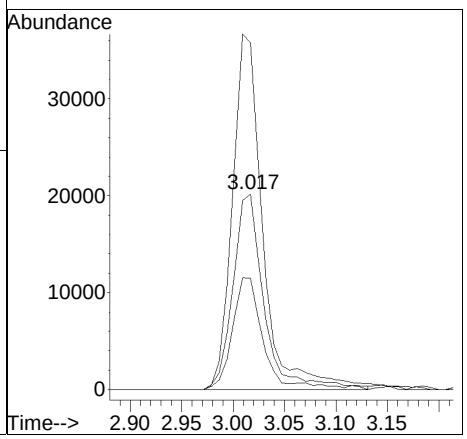


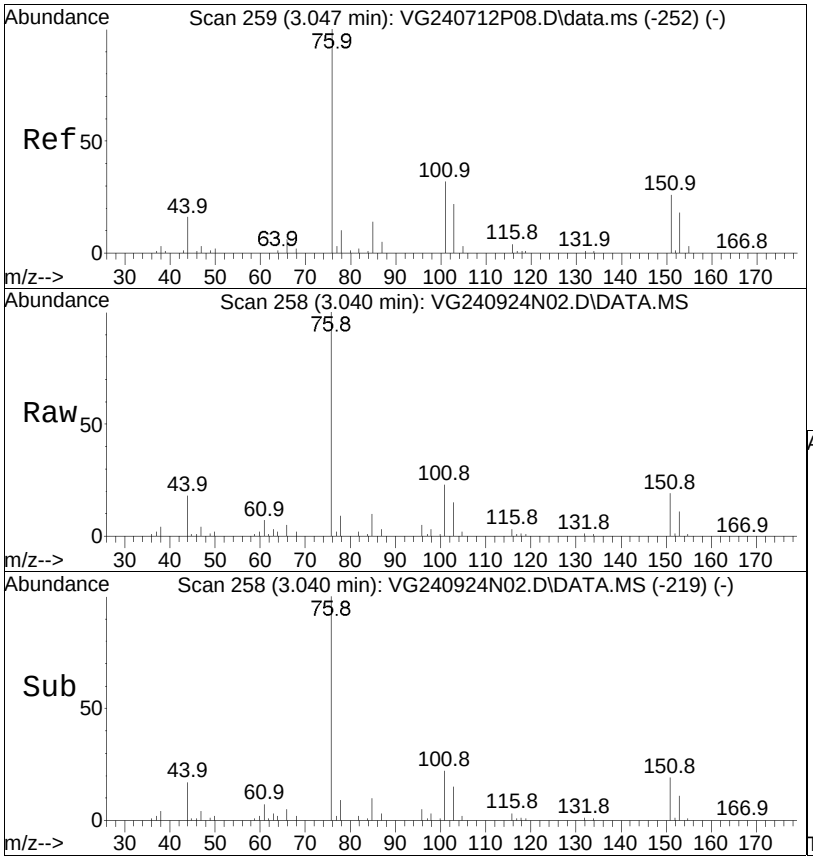


#10
1,1-Dichloroethene
Concen: 9.31 ug/L
RT: 3.017 min Scan# 255
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 96 Resp: 42513

Ion	Ratio	Lower	Upper
96	100		
61	180.3	124.2	186.4
63	56.1	40.0	60.0

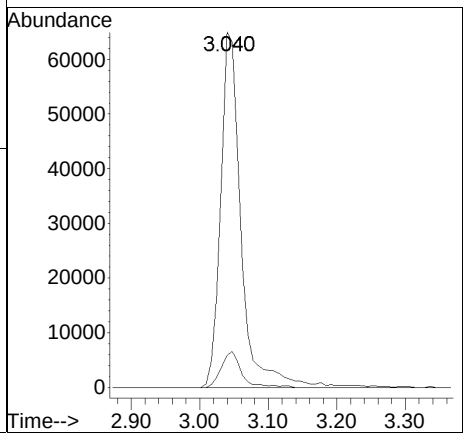


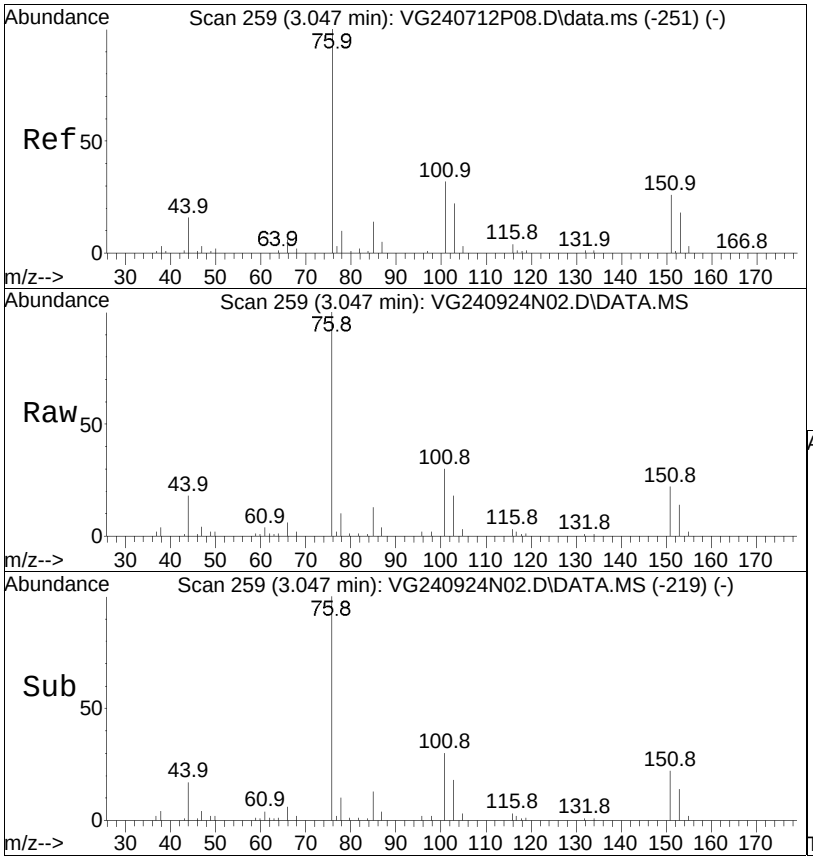


#11
Carbon disulfide
Concen: 10.10 ug/L
RT: 3.040 min Scan# 258
Delta R.T. -0.007 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 76 Resp: 135647

Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.6	13.6

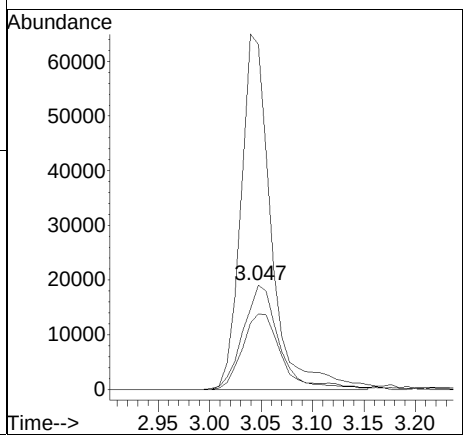


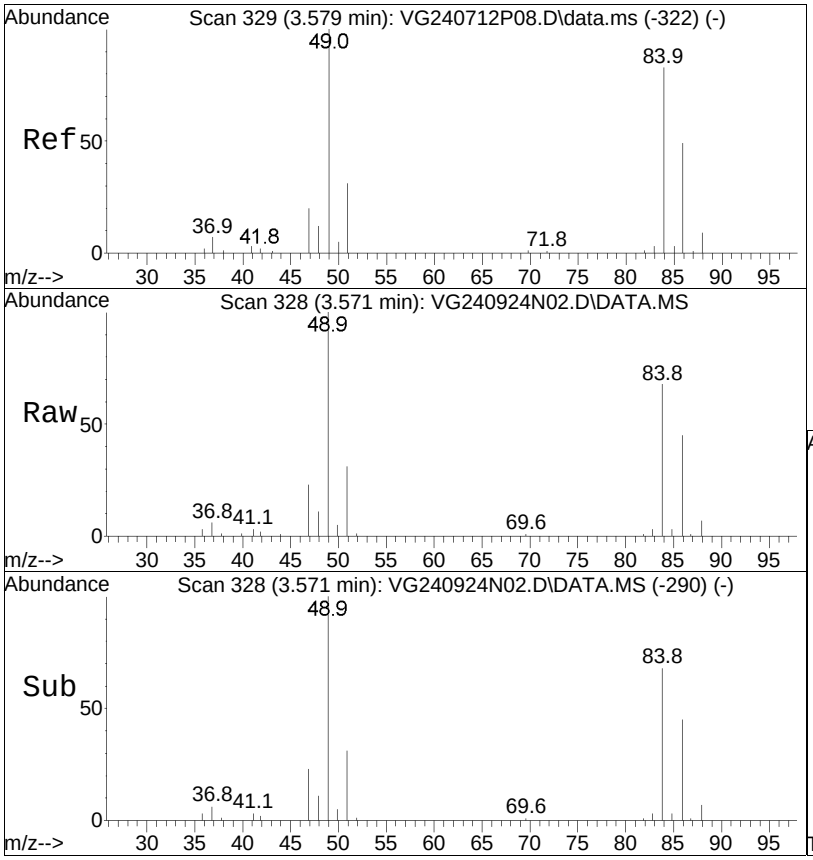


#12
Freon-113
Concen: 9.38 ug/L
RT: 3.047 min Scan# 259
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:101 Resp: 47035

Ion	Ratio	Lower	Upper
101	100		
151	78.0	68.2	102.2
76	288.4	186.0	279.0#

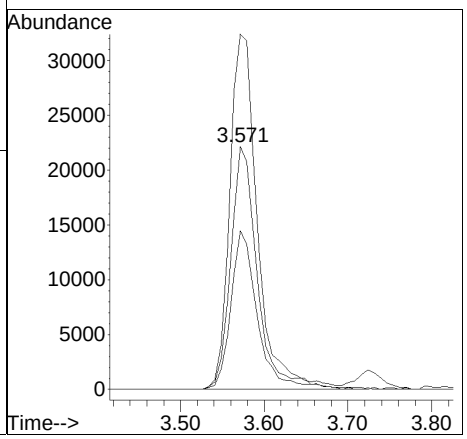


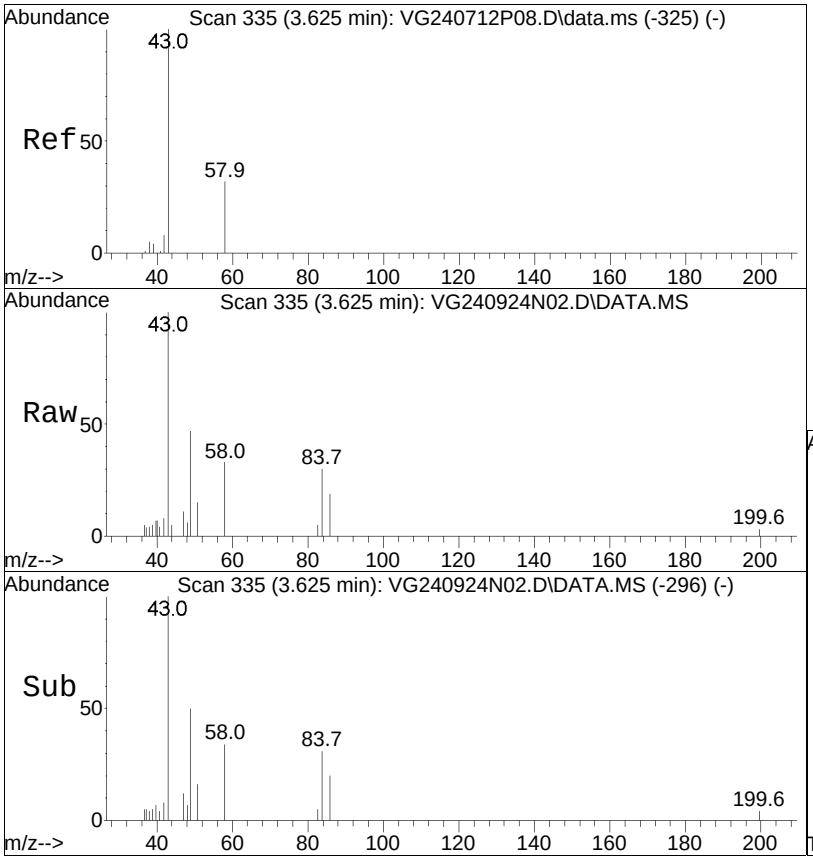


#15
Methylene chloride
Concen: 9.12 ug/L
RT: 3.571 min Scan# 328
Delta R.T. -0.008 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 84 Resp: 49276

Ion	Ratio	Lower	Upper
84	100		
86	65.2	41.1	85.5
49	150.9	76.2	158.2

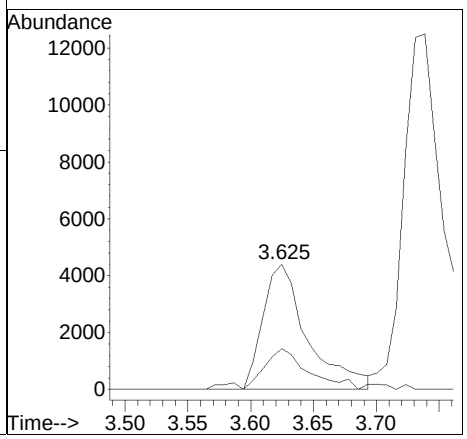


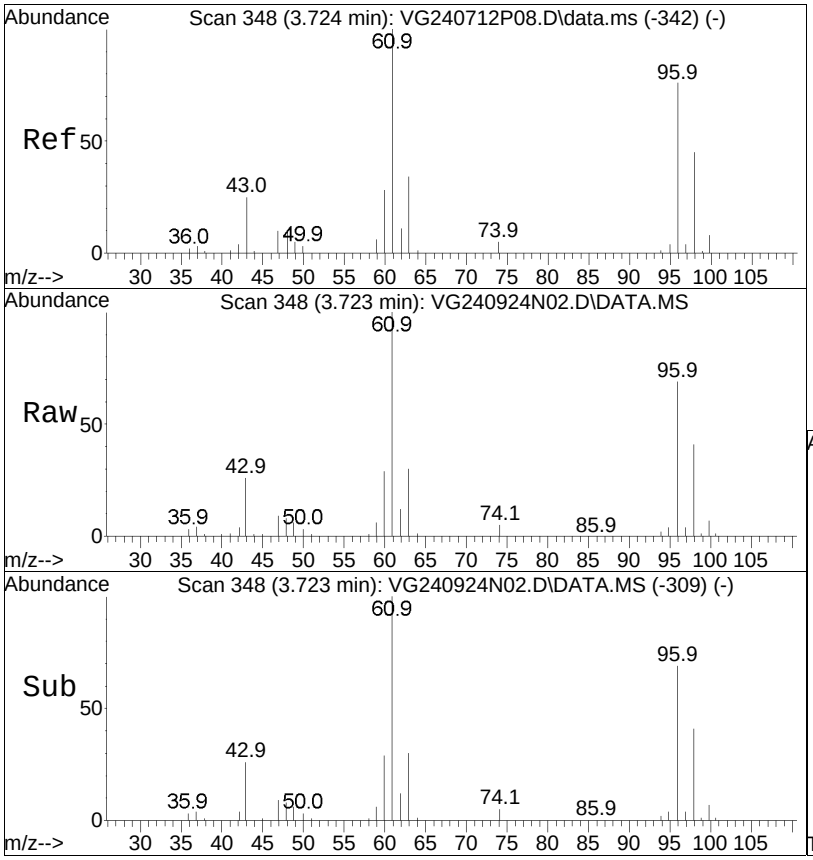


#17
Acetone
Concen: 8.63 ug/L
RT: 3.625 min Scan# 335
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 43 Resp: 11102

Ion	Ratio	Lower	Upper
43	100		
58	30.9	22.2	33.4

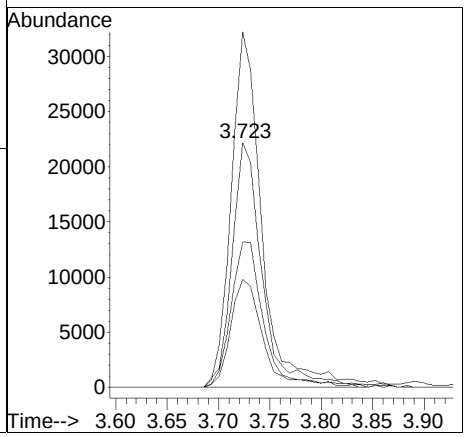


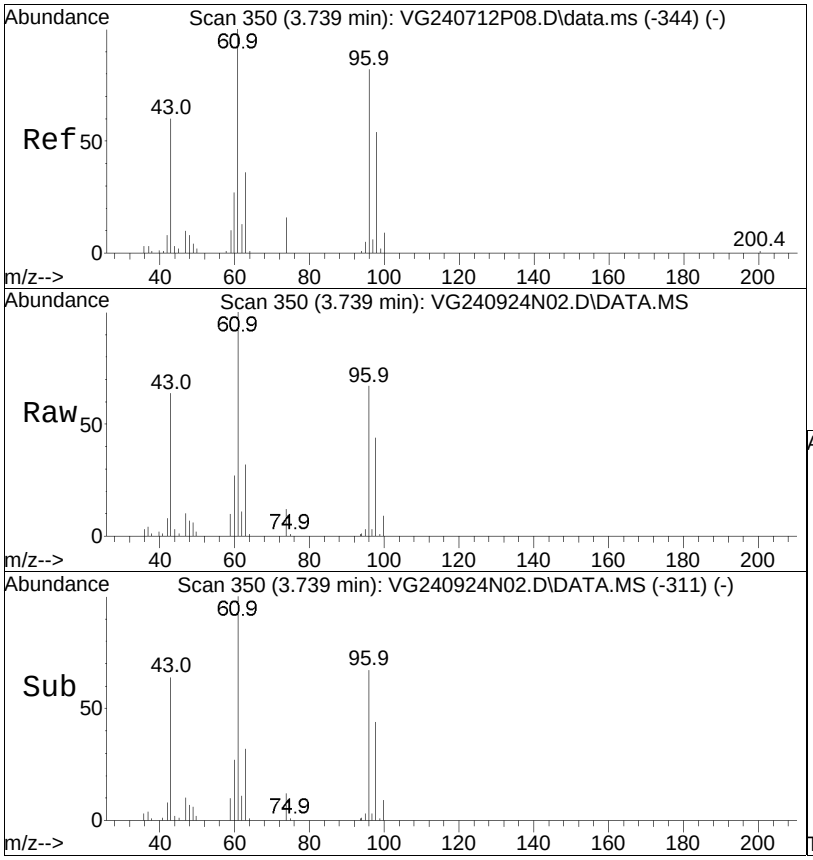


#18
trans-1,2-Dichloroethene
Concen: 9.17 ug/L
RT: 3.723 min Scan# 348
Delta R.T. -0.001 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 96 Resp: 45841

Ion	Ratio	Lower	Upper
96	100		
61	148.5	85.7	178.1
98	63.8	40.2	83.4
63	47.7	28.0	58.2

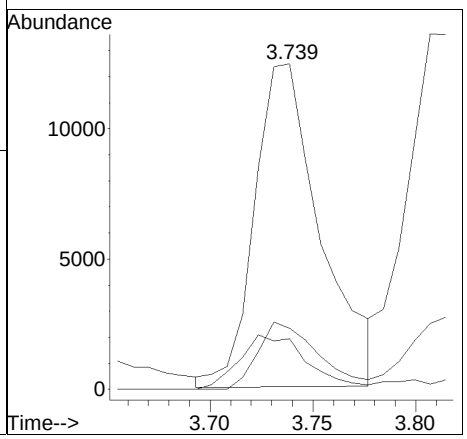


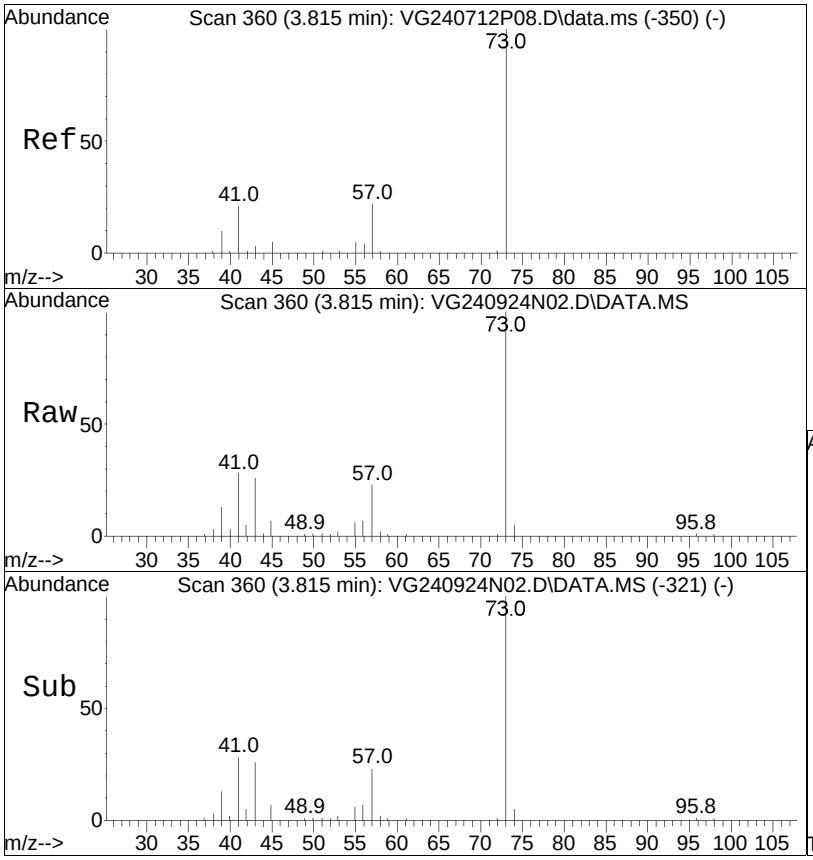


#19
Methyl acetate
Concen: 9.99 ug/L
RT: 3.739 min Scan# 350
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 43 Resp: 27753

Ion	Ratio	Lower	Upper
43	100		
74	19.1	19.3	28.9#
59	17.4	13.9	20.9

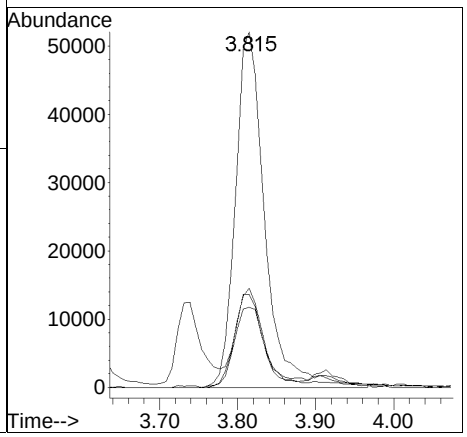


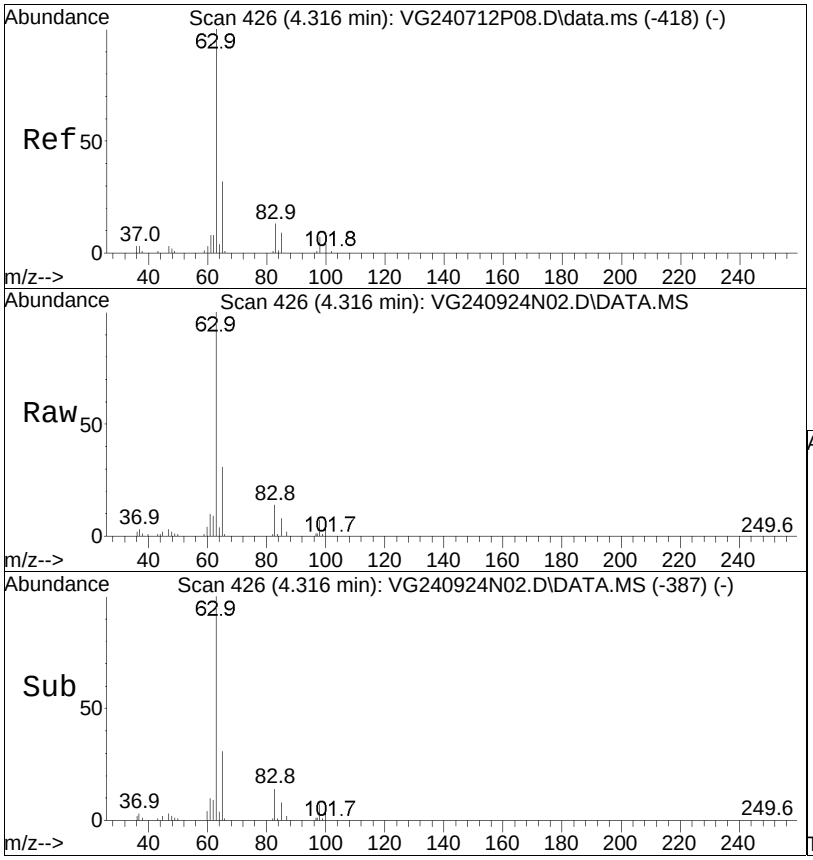


#20
Methyl tert-butyl ether
Concen: 8.94 ug/L
RT: 3.815 min Scan# 360
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 73 Resp: 137339

Ion	Ratio	Lower	Upper
73	100		
57	23.8	12.5	26.1
43	26.5	13.0	27.0
41	26.7	12.5	26.1#

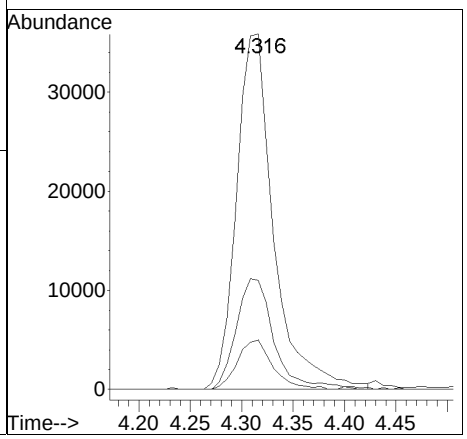


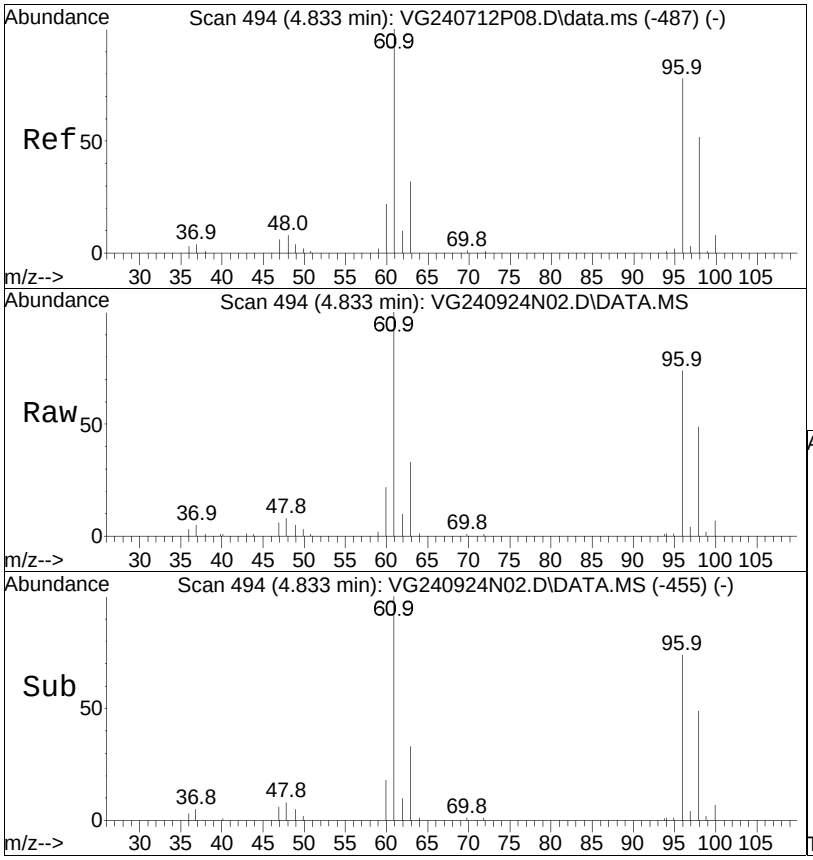


#23
1,1-Dichloroethane
Concen: 9.99 ug/L
RT: 4.316 min Scan# 426
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 63 Resp: 90413

Ion	Ratio	Lower	Upper
63	100		
65	31.7	10.4	50.4
83	13.3	0.0	33.2

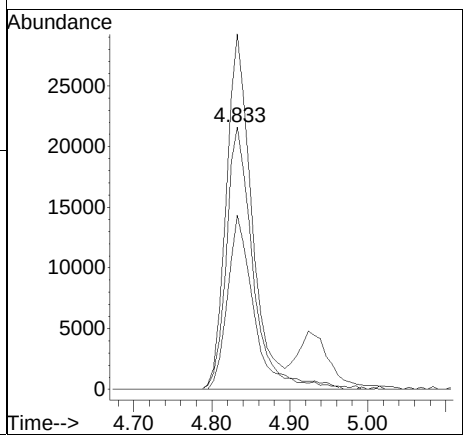


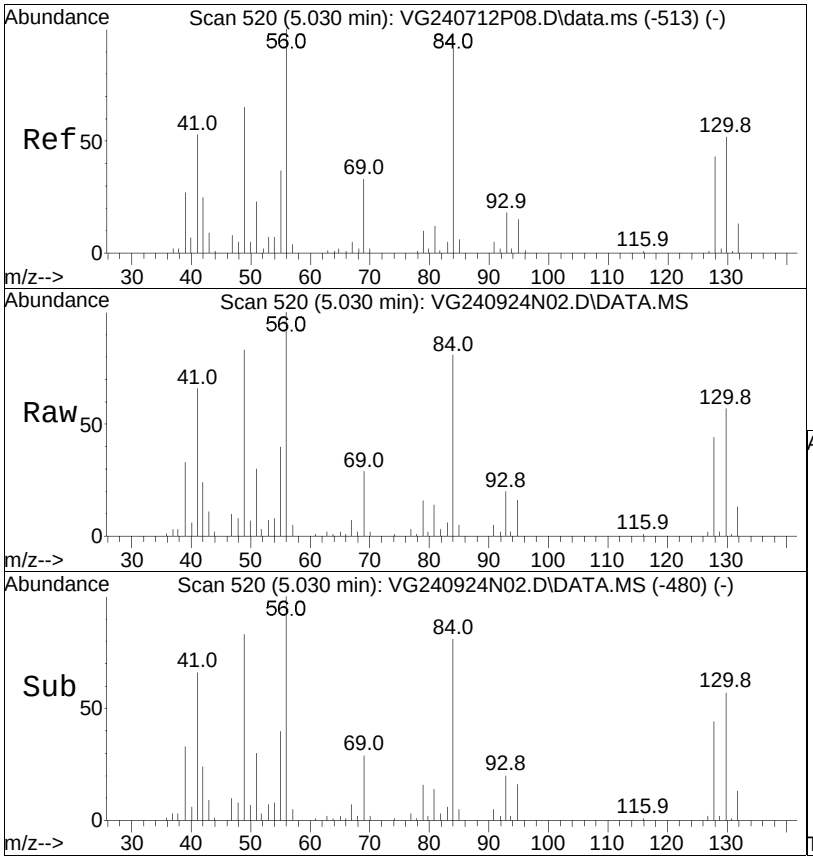


#28
cis-1,2-Dichloroethene
Concen: 9.02 ug/L
RT: 4.833 min Scan# 494
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 96 Resp: 51816

Ion	Ratio	Lower	Upper
96	100		
61	127.7	96.6	144.8
98	65.6	51.3	76.9

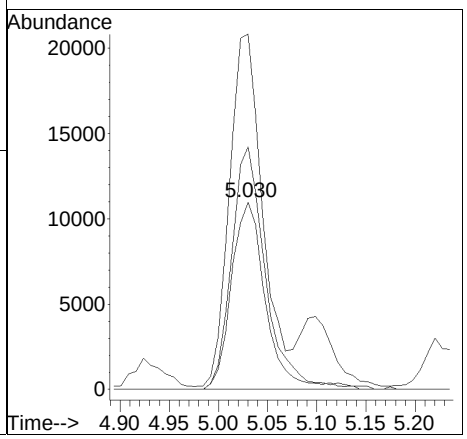


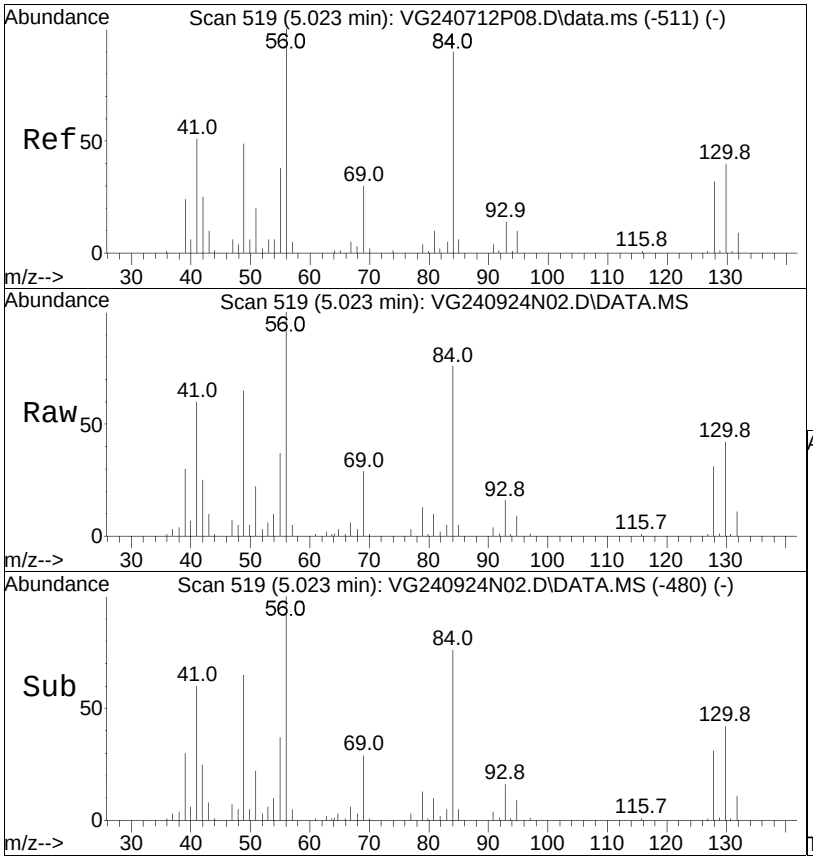


#30
Bromochloromethane
Concen: 9.47 ug/L
RT: 5.030 min Scan# 520
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:128 Resp: 26610

Ion	Ratio	Lower	Upper
128	100		
49	179.5	112.7	169.1#
130	129.2	103.3	154.9

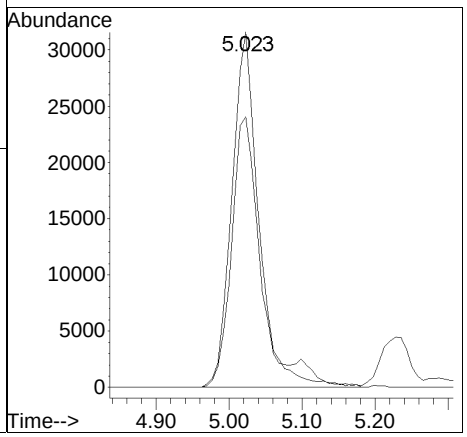


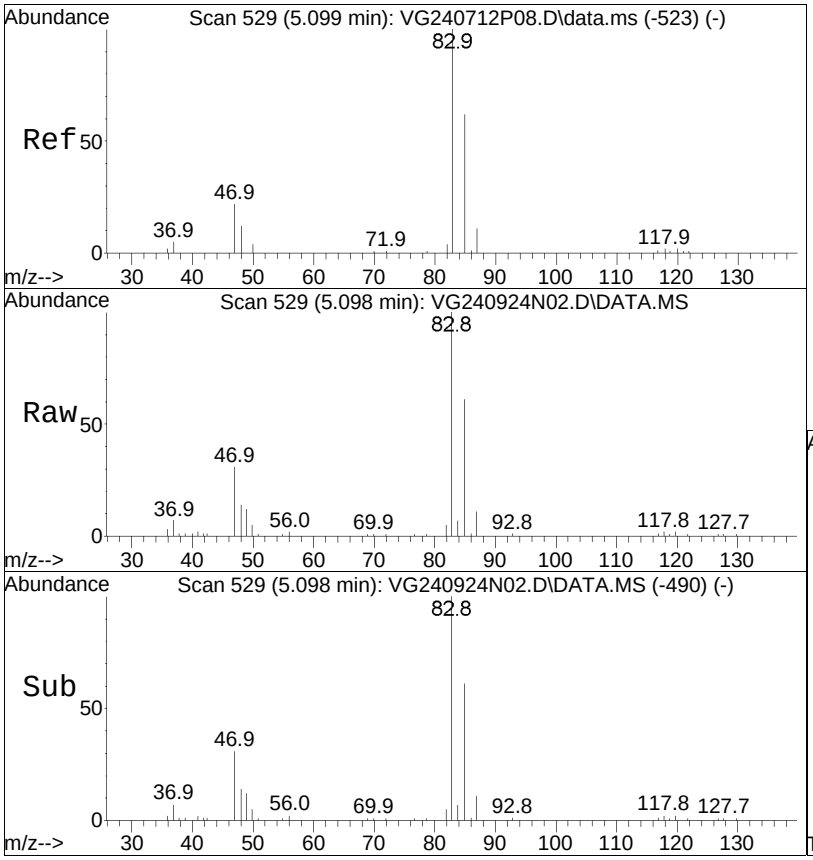


#31
Cyclohexane
Concen: 9.51 ug/L
RT: 5.023 min Scan# 519
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 56 Resp: 81622

Ion	Ratio	Lower	Upper
56	100		
84	77.7	63.8	132.4

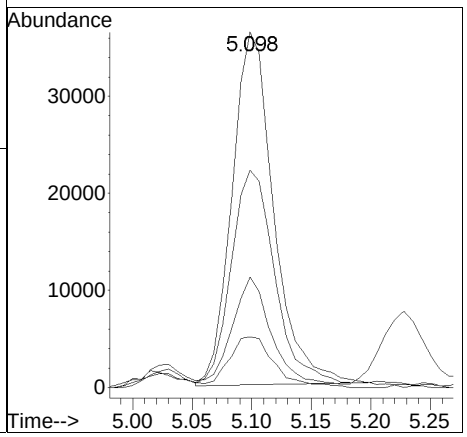


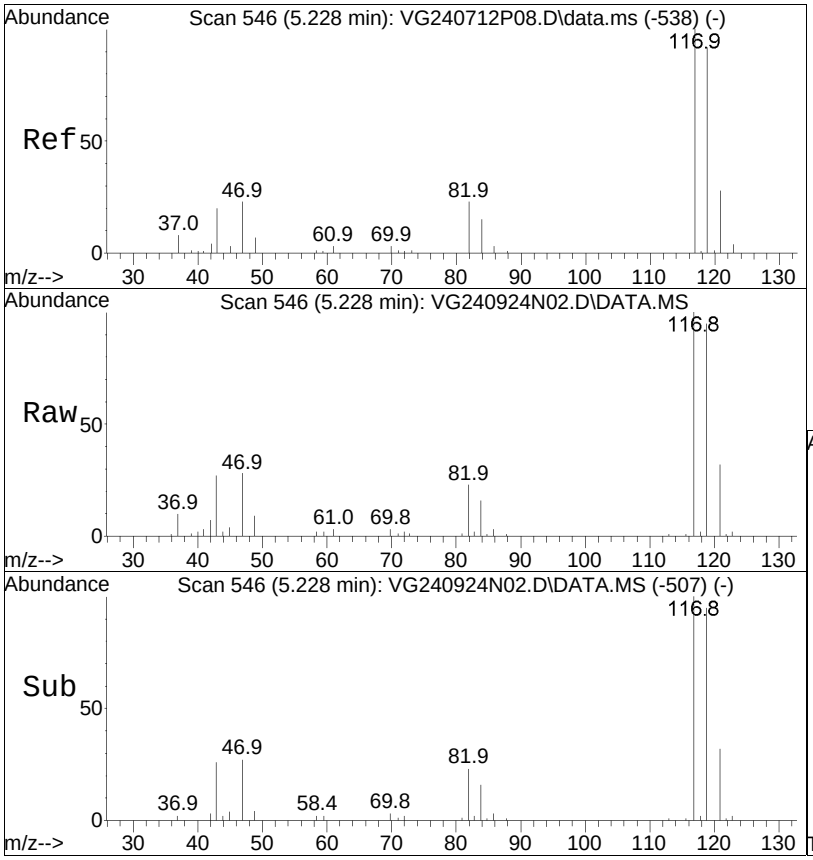


#32
Chloroform
Concen: 9.57 ug/L
RT: 5.098 min Scan# 529
Delta R.T. -0.001 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 83 Resp: 88707

Ion	Ratio	Lower	Upper
83	100		
85	67.7	41.4	86.0
47	30.6	15.1	31.3
48	15.5	7.7	16.1

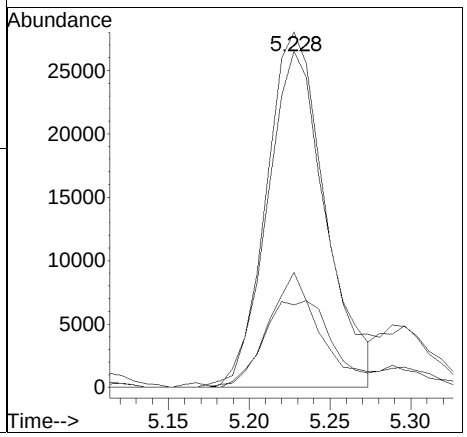


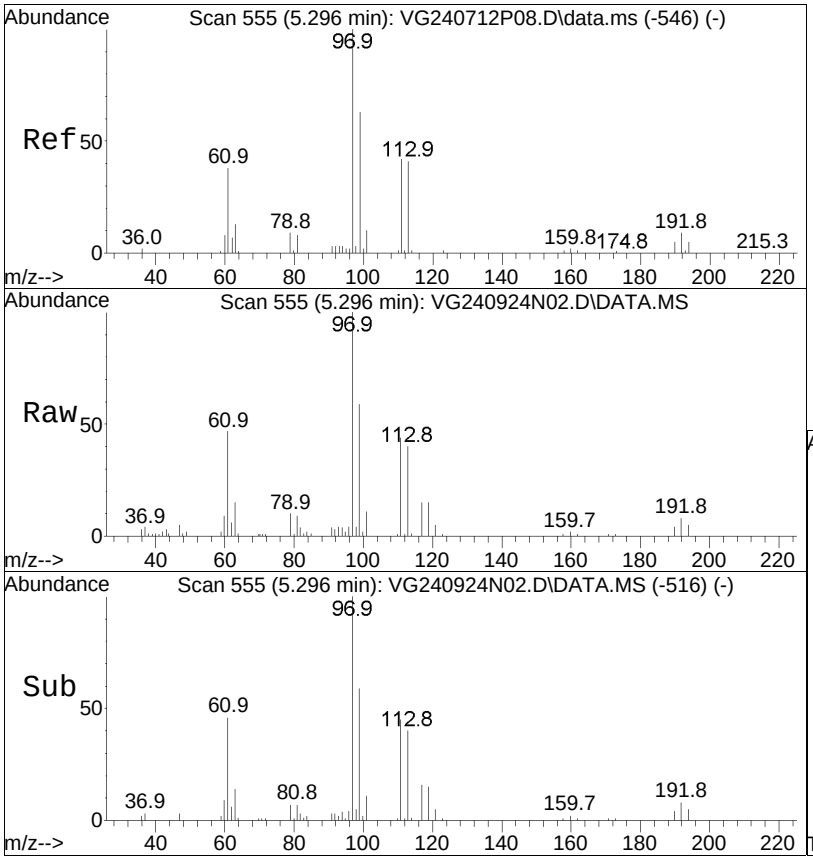


#34
Carbon tetrachloride
Concen: 9.48 ug/L
RT: 5.228 min Scan# 546
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:117 Resp: 71224

Ion	Ratio	Lower	Upper
117	100		
119	96.5	63.2	131.2
121	30.4	20.4	42.4
82	26.5	15.4	32.0

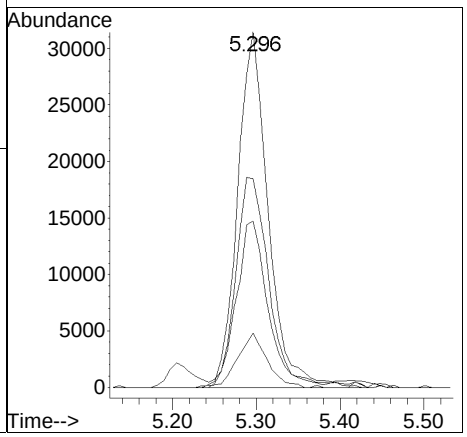


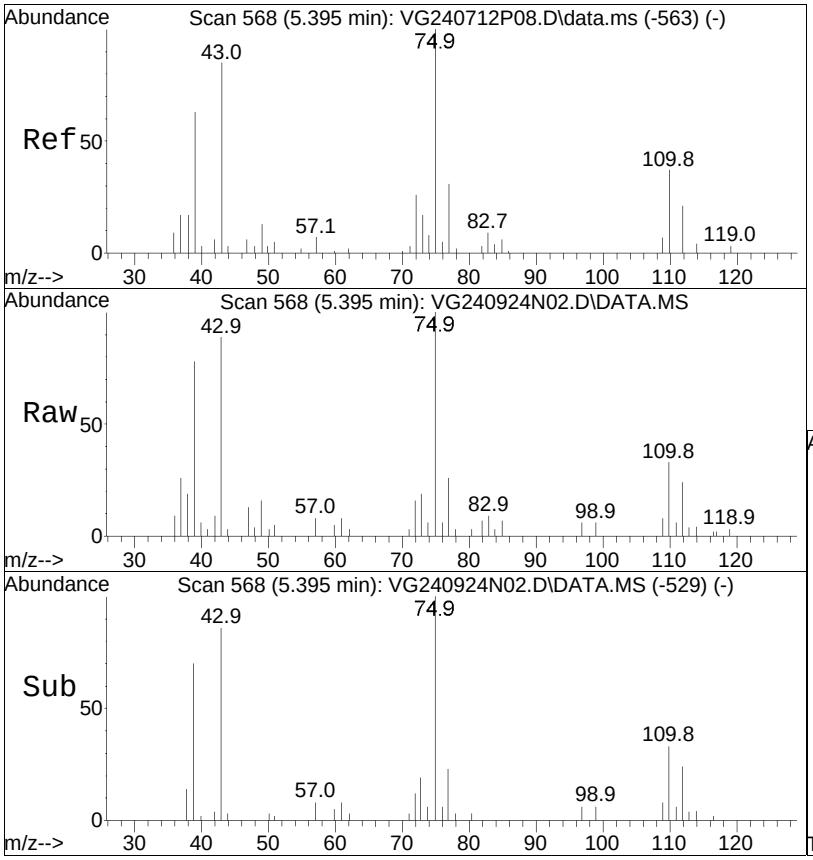


#37
1,1,1-Trichloroethane
Concen: 9.39 ug/L
RT: 5.296 min Scan# 555
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 97 Resp: 80212

Ion	Ratio	Lower	Upper
97	100		
99	63.7	41.3	85.7
61	48.5	26.0	54.0
63	14.7	8.6	18.0

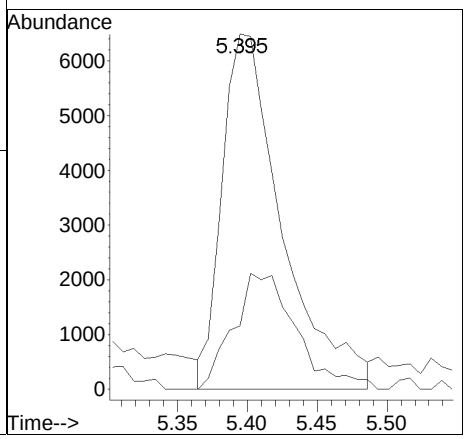


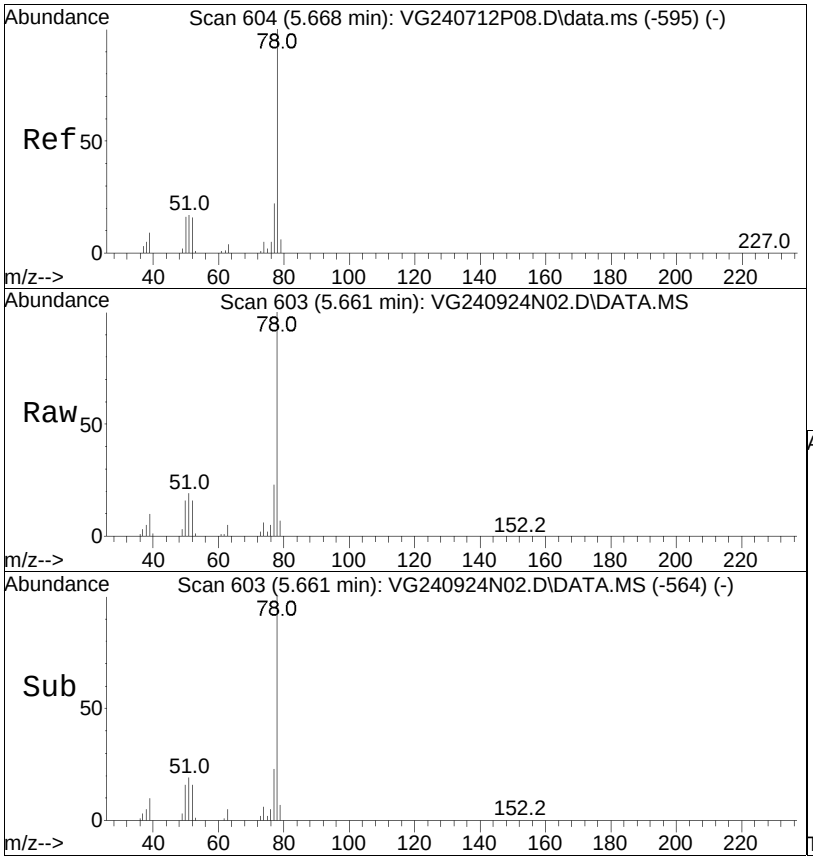


#39
2-Butanone
Concen: 11.12 ug/L M4
RT: 5.395 min Scan# 568
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 43 Resp: 19485

Ion	Ratio	Lower	Upper
43	100		
72	34.1	42.6	63.8#

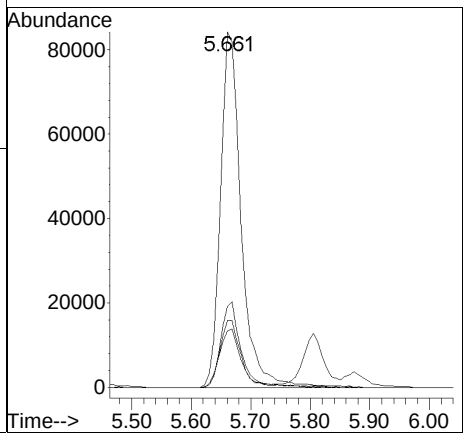


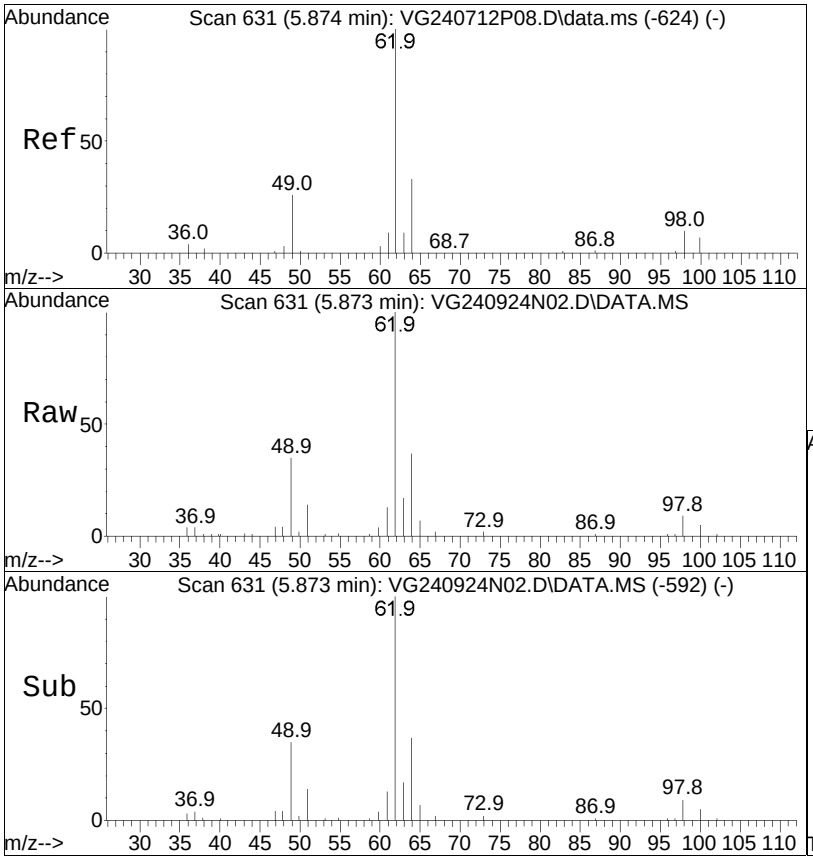


#41
Benzene
Concen: 9.87 ug/L
RT: 5.661 min Scan# 603
Delta R.T. -0.007 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 78 Resp: 204105

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.5	32.1
51	18.8	9.9	20.7
52	16.9	9.2	19.2

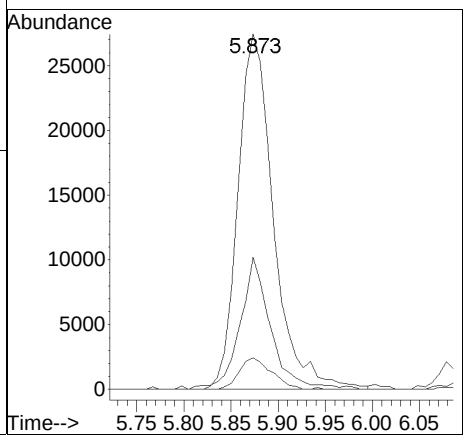


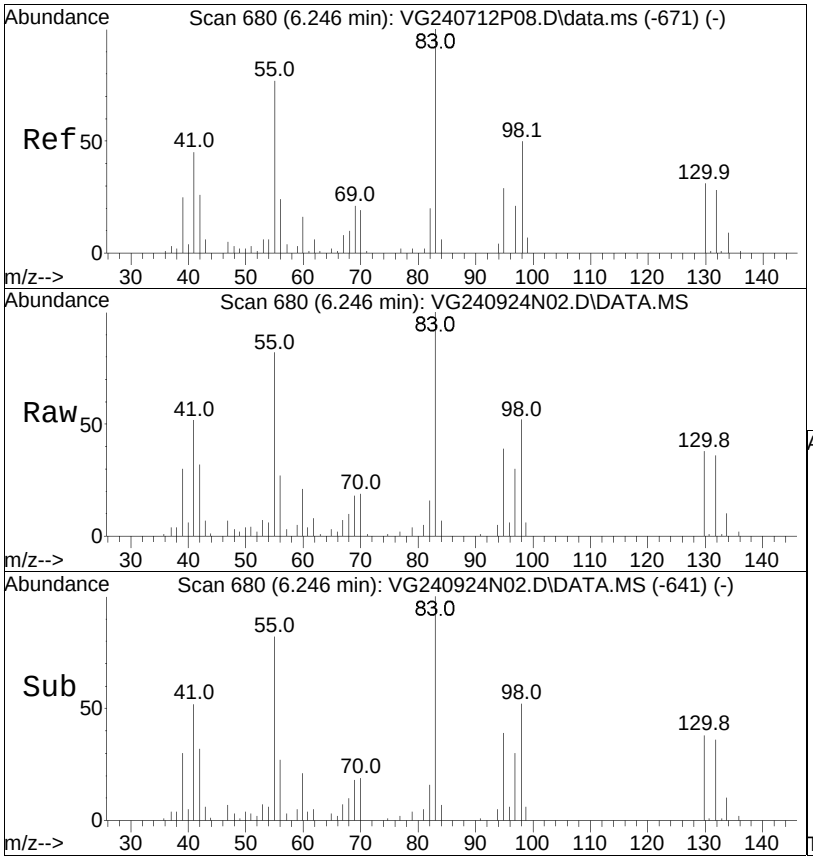


#44
1,2-Dichloroethane
Concen: 10.92 ug/L
RT: 5.873 min Scan# 631
Delta R.T. -0.001 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 62 Resp: 72037

Ion	Ratio	Lower	Upper
62	100		
64	32.3	11.9	51.9
98	8.1	0.0	29.3

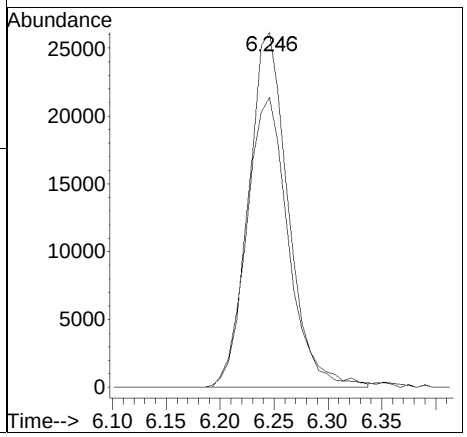


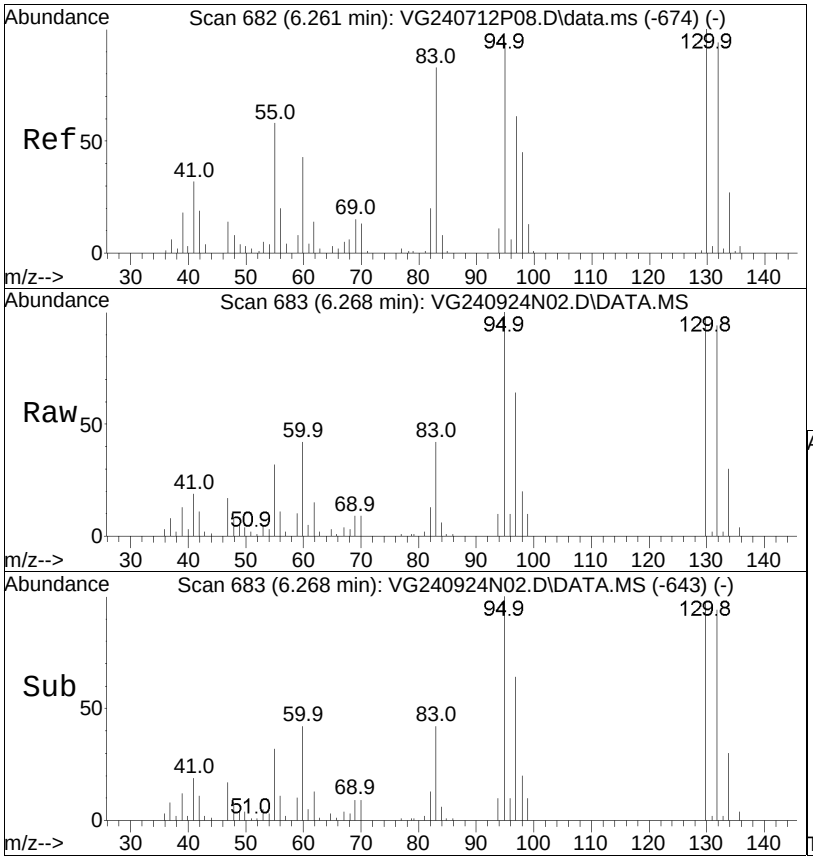


#47
Methyl cyclohexane
Concen: 8.35 ug/L
RT: 6.246 min Scan# 680
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 83 Resp: 67123

Ion	Ratio	Lower	Upper
83	100		
55	86.1	56.0	84.0#

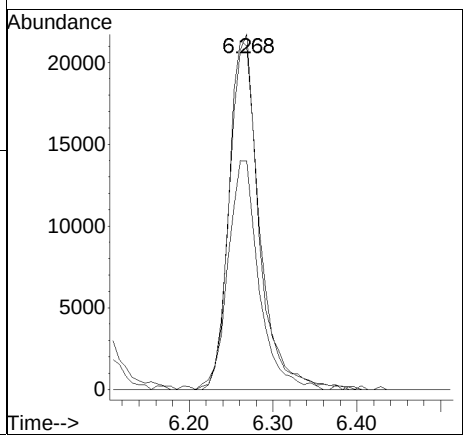


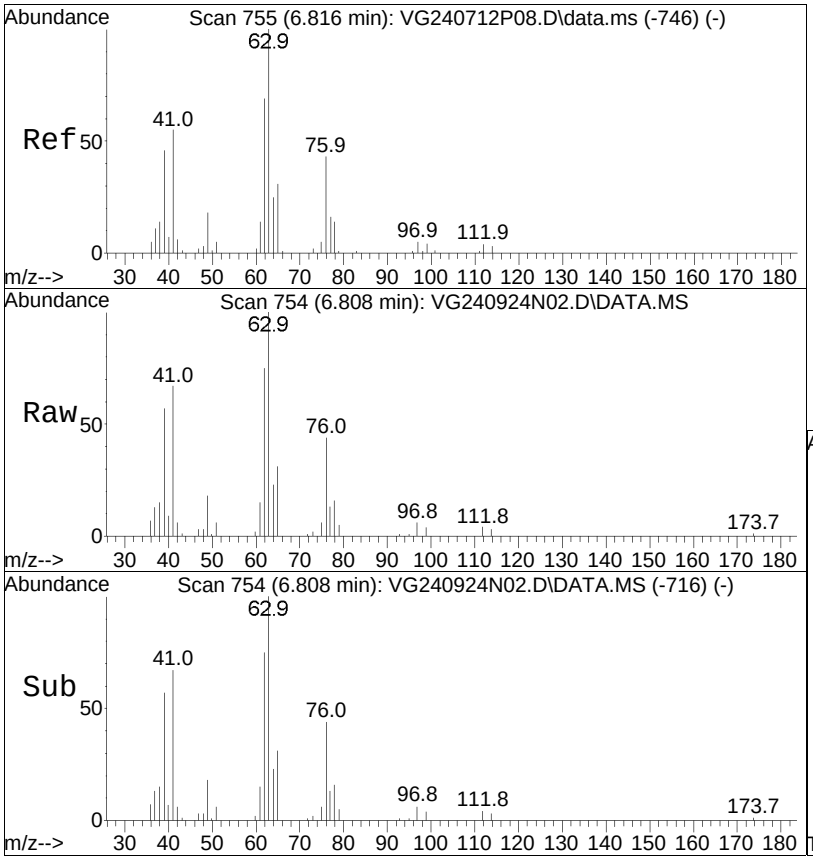


#48
Trichloroethene
Concen: 9.11 ug/L
RT: 6.268 min Scan# 683
Delta R.T. 0.007 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 95 Resp: 53132

Ion	Ratio	Lower	Upper
95	100		
97	67.5	54.0	81.0
130	102.4	85.0	127.4

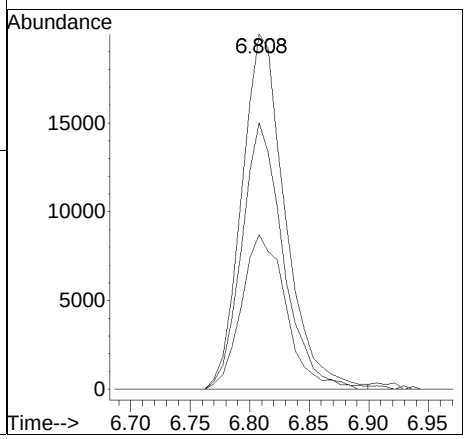


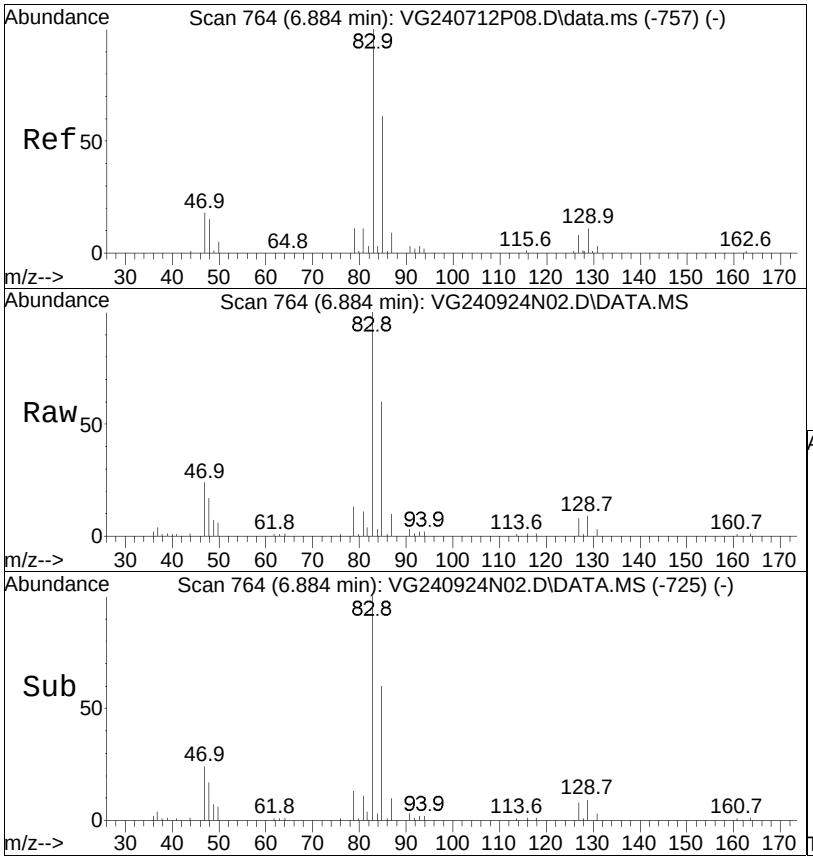


#51
1,2-Dichloropropane
Concen: 10.07 ug/L
RT: 6.808 min Scan# 754
Delta R.T. -0.008 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 63 Resp: 50813

Ion	Ratio	Lower	Upper
63	100		
62	72.4	56.5	84.7
76	44.7	34.6	52.0

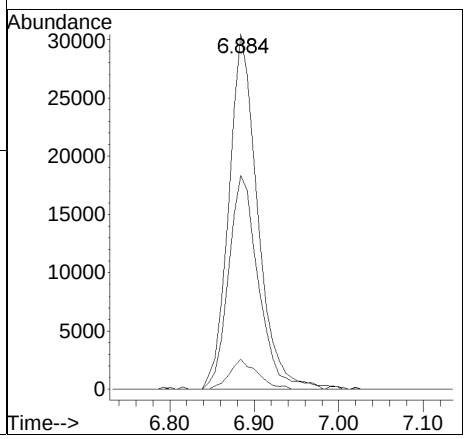


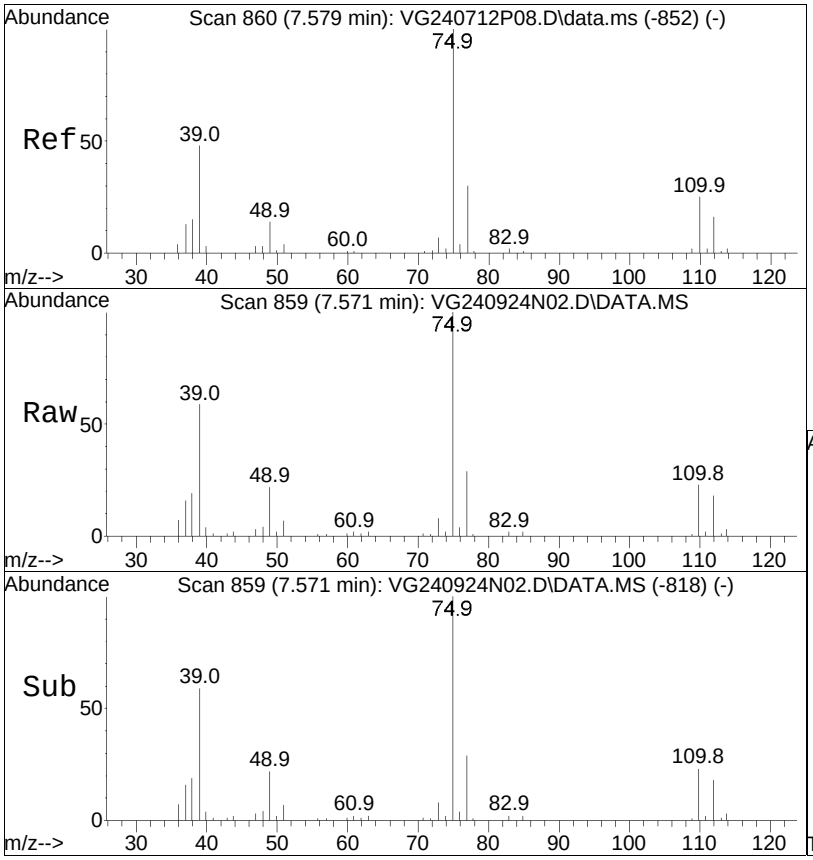


#54
Bromodichloromethane
Concen: 9.80 ug/L
RT: 6.884 min Scan# 764
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 83 Resp: 72181

Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.8	76.2
127	8.3	7.4	11.2

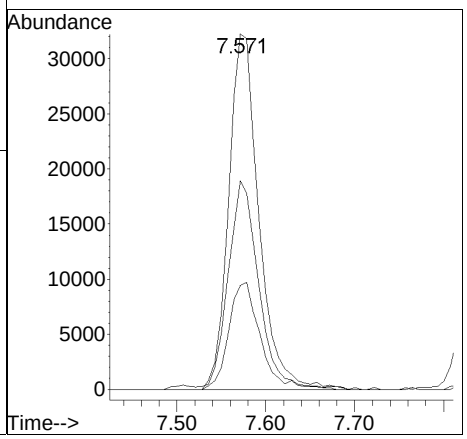


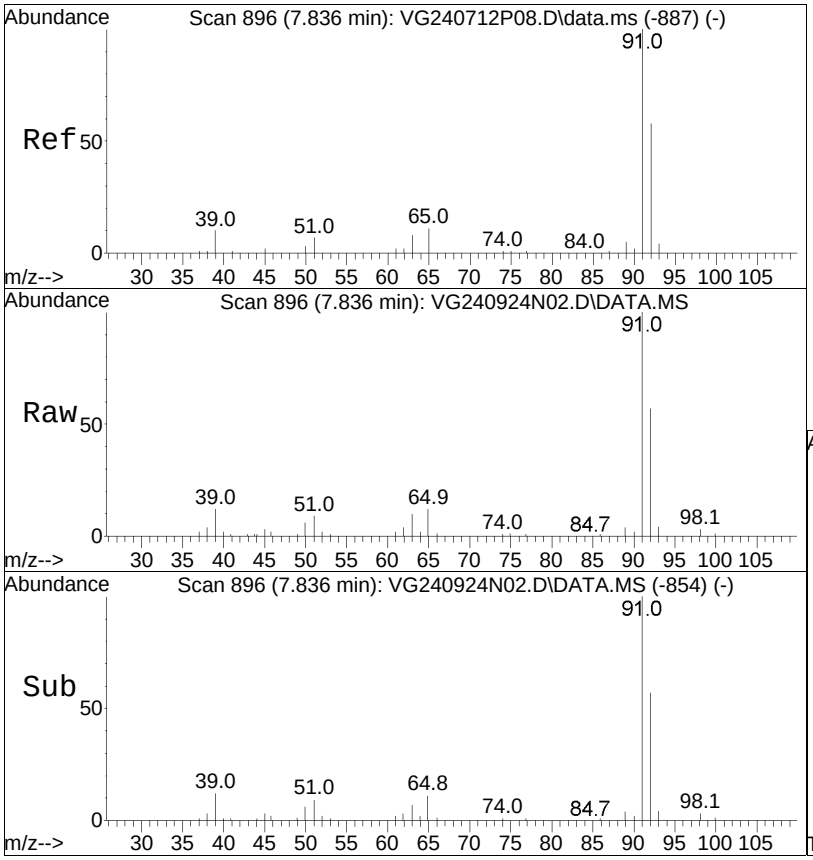


#58
cis-1,3-Dichloropropene
Concen: 9.25 ug/L
RT: 7.571 min Scan# 859
Delta R.T. -0.008 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 75 Resp: 76245

Ion	Ratio	Lower	Upper
75	100		
77	31.4	24.6	36.8
39	58.1	40.8	61.2

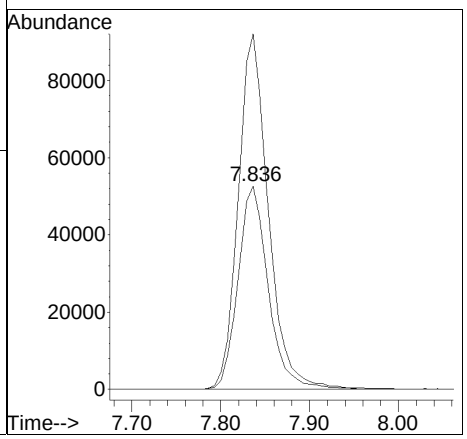


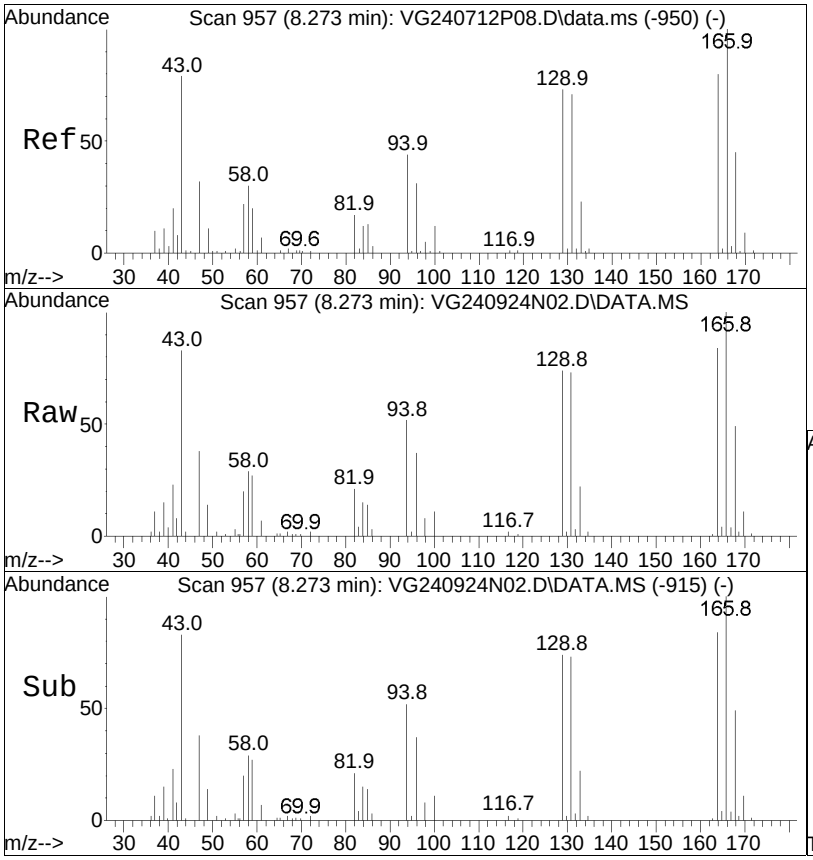


#61
Toluene
Concen: 9.87 ug/L
RT: 7.836 min Scan# 896
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 92 Resp: 125004

Ion	Ratio	Lower	Upper
92	100		
91	173.4	134.8	202.2

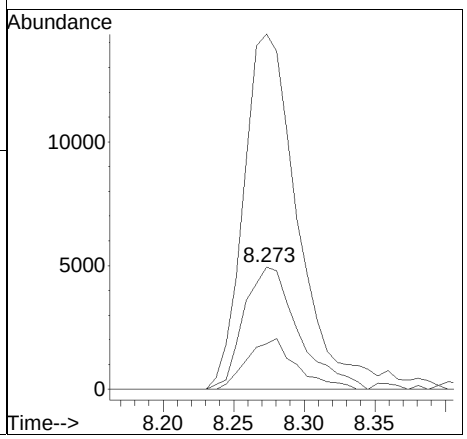


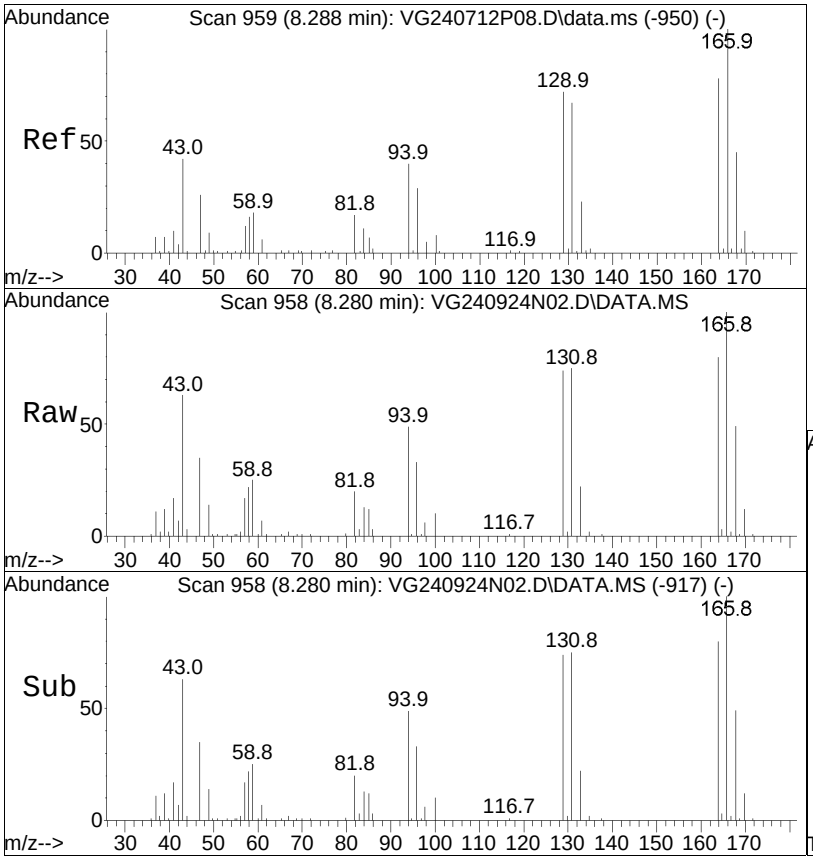


#62
4-Methyl-2-pentanone
Concen: 9.56 ug/L
RT: 8.273 min Scan# 957
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 58 Resp: 13345

Ion	Ratio	Lower	Upper
58	100		
100	37.7	33.6	50.4
43	293.8	204.3	306.5

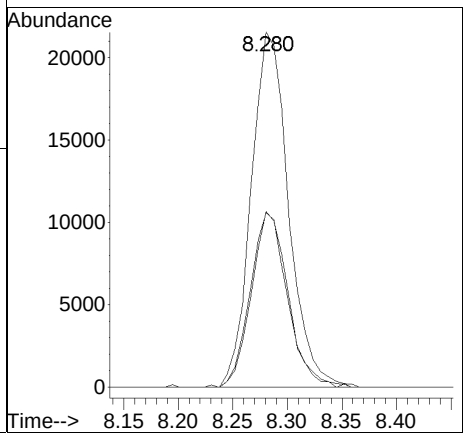


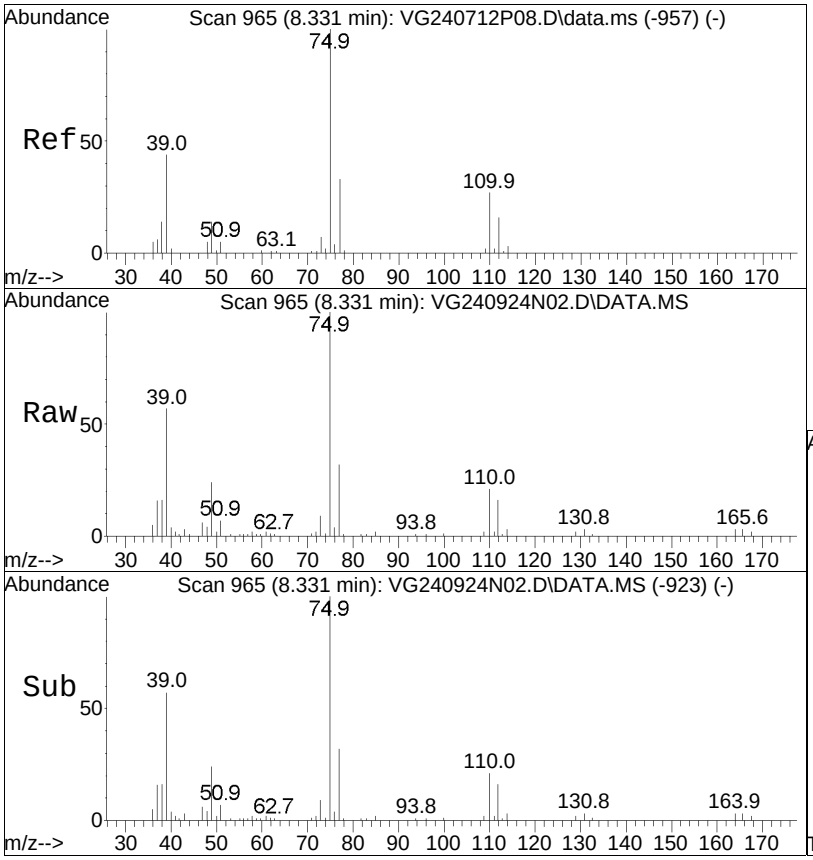


#63
Tetrachloroethene
Concen: 9.28 ug/L
RT: 8.280 min Scan# 958
Delta R.T. -0.008 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:166 Resp: 51563

Ion	Ratio	Lower	Upper
166	100		
168	48.6	27.3	67.3
94	48.6	20.5	60.5

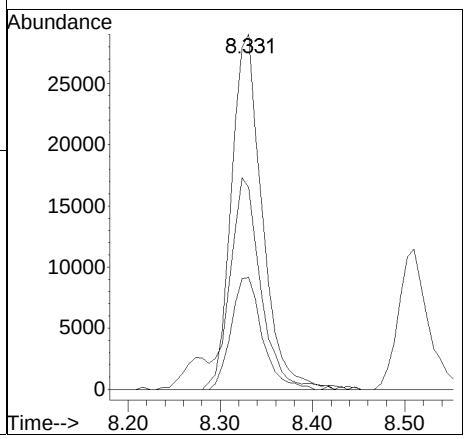


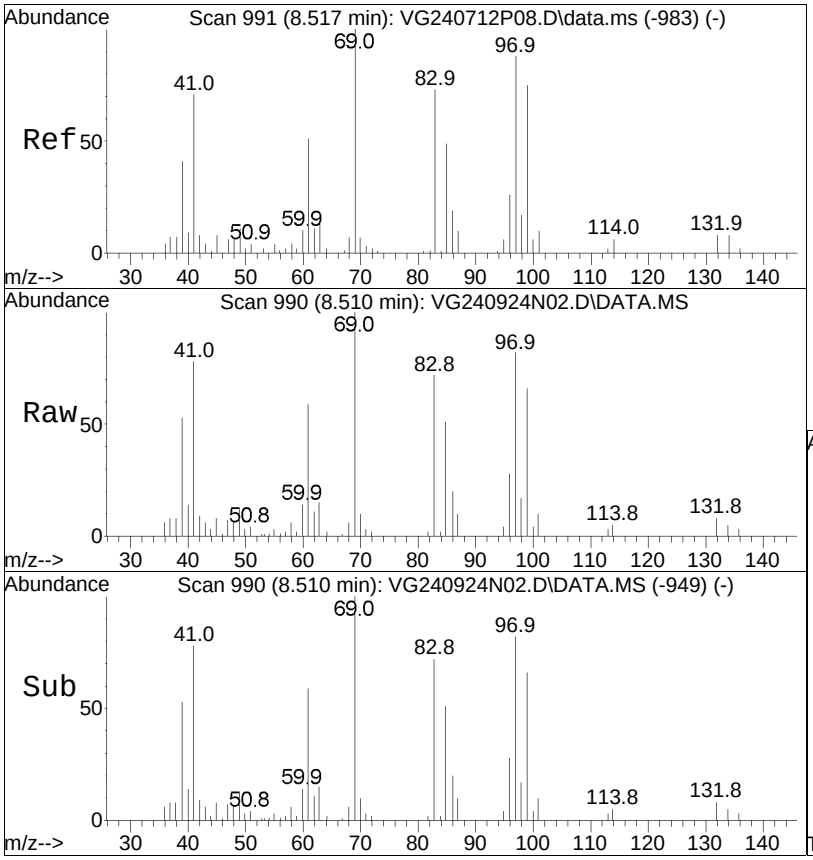


#65
trans-1,3-Dichloropropene
Concen: 9.70 ug/L
RT: 8.331 min Scan# 965
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 75 Resp: 67258

Ion	Ratio	Lower	Upper
75	100		
77	31.9	11.3	51.3
39	59.5	36.0	76.0

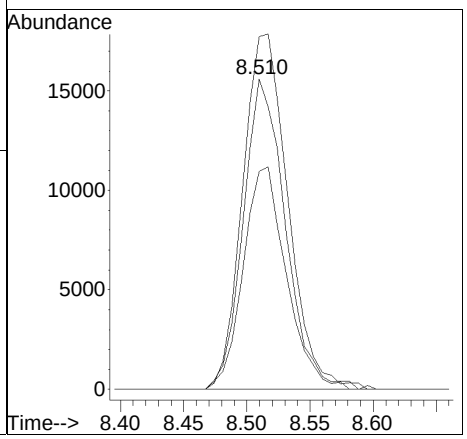


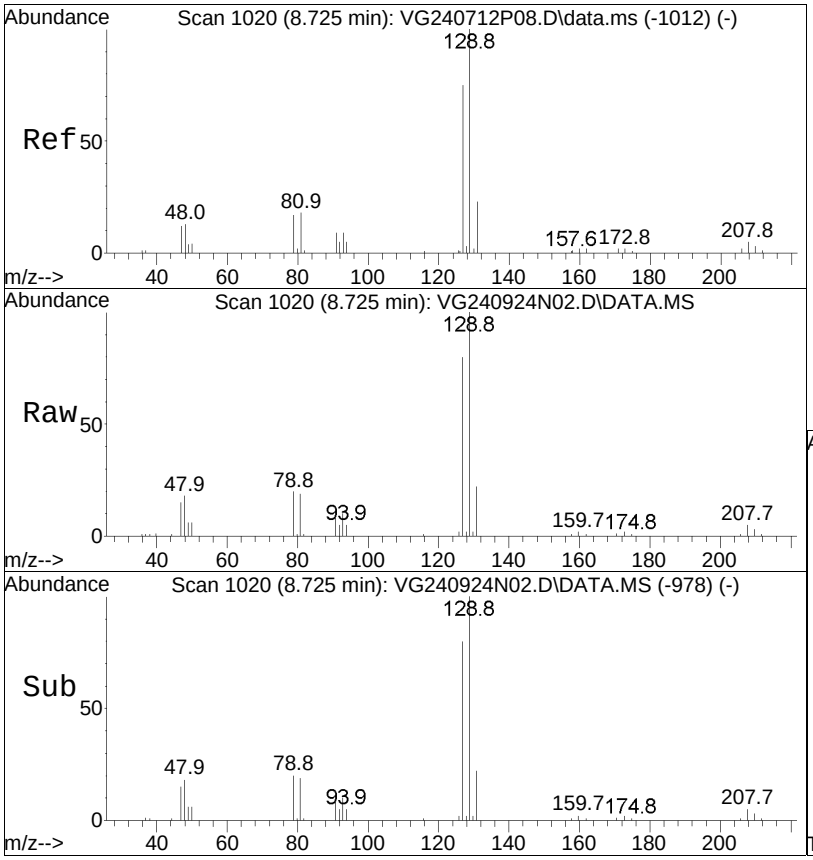


#68
1,1,2-Trichloroethane
Concen: 10.45 ug/L
RT: 8.510 min Scan# 990
Delta R.T. -0.007 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 83 Resp: 36296

Ion	Ratio	Lower	Upper
83	100		
97	122.8	101.0	141.0
85	73.4	47.9	87.9

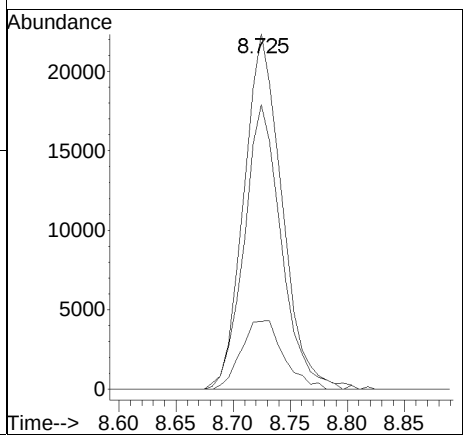


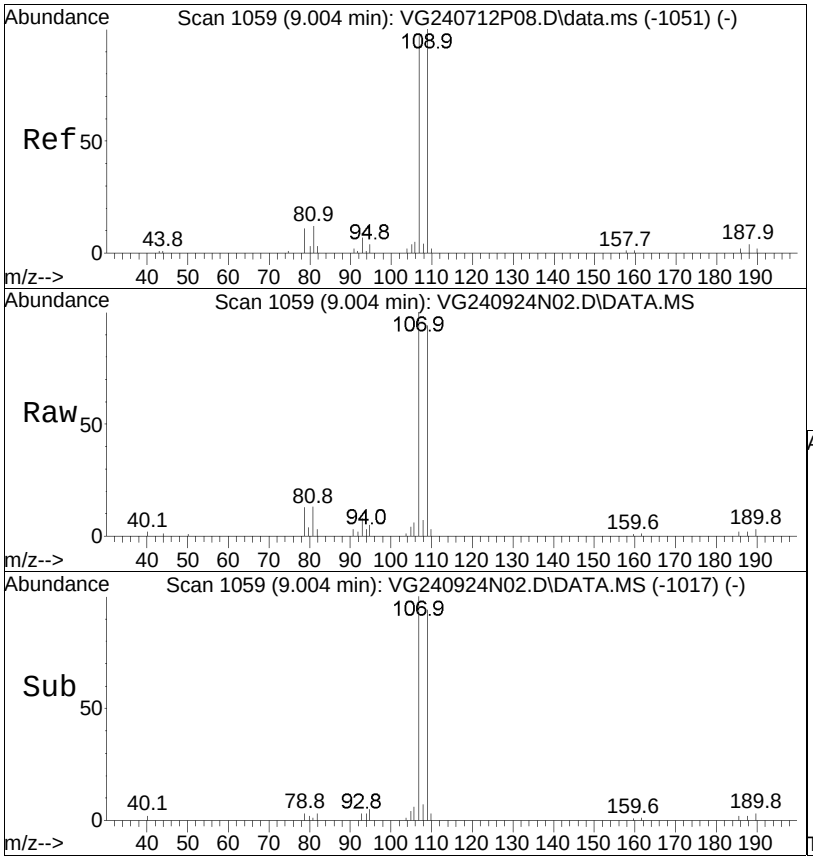


#69
Chlorodibromomethane
Concen: 9.45 ug/L
RT: 8.725 min Scan# 1020
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:129 Resp: 51893

Ion	Ratio	Lower	Upper
129	100		
81	21.5	0.0	35.0
127	78.6	57.1	97.1

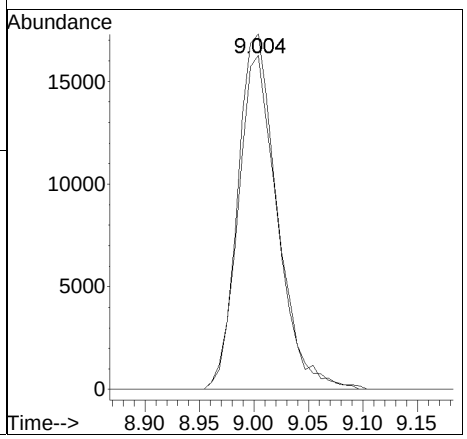


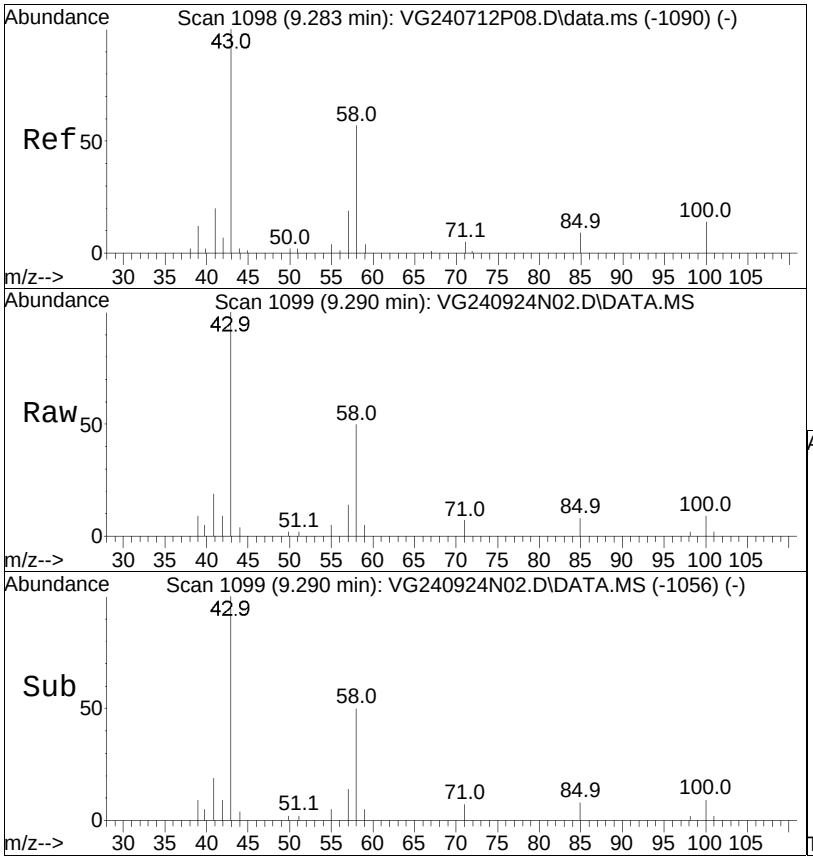


#71
1,2-Dibromoethane
Concen: 9.92 ug/L
RT: 9.004 min Scan# 1059
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:107 Resp: 43707

Ion	Ratio	Lower	Upper
107	100		
109	93.3	76.0	114.0

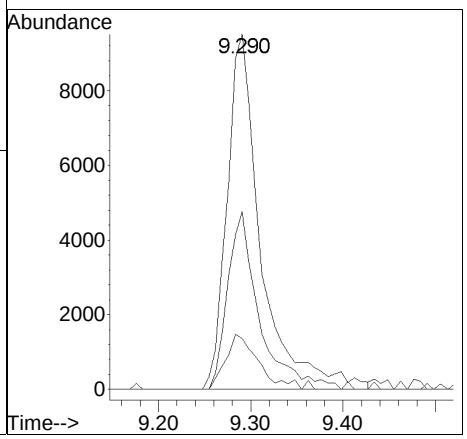


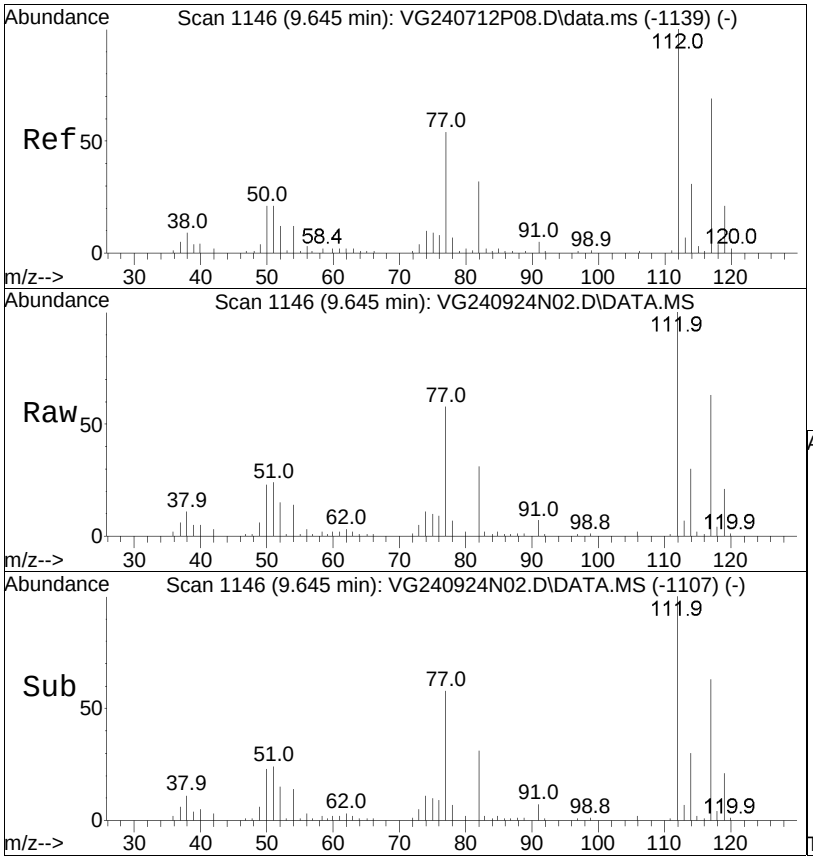


#72
2-Hexanone
Concen: 9.38 ug/L
RT: 9.290 min Scan# 1099
Delta R.T. 0.007 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 43 Resp: 24293

Ion	Ratio	Lower	Upper
43	100		
58	46.7	43.8	65.6
57	15.4	15.2	22.8

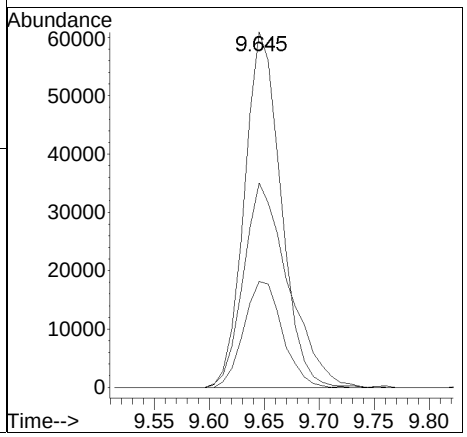


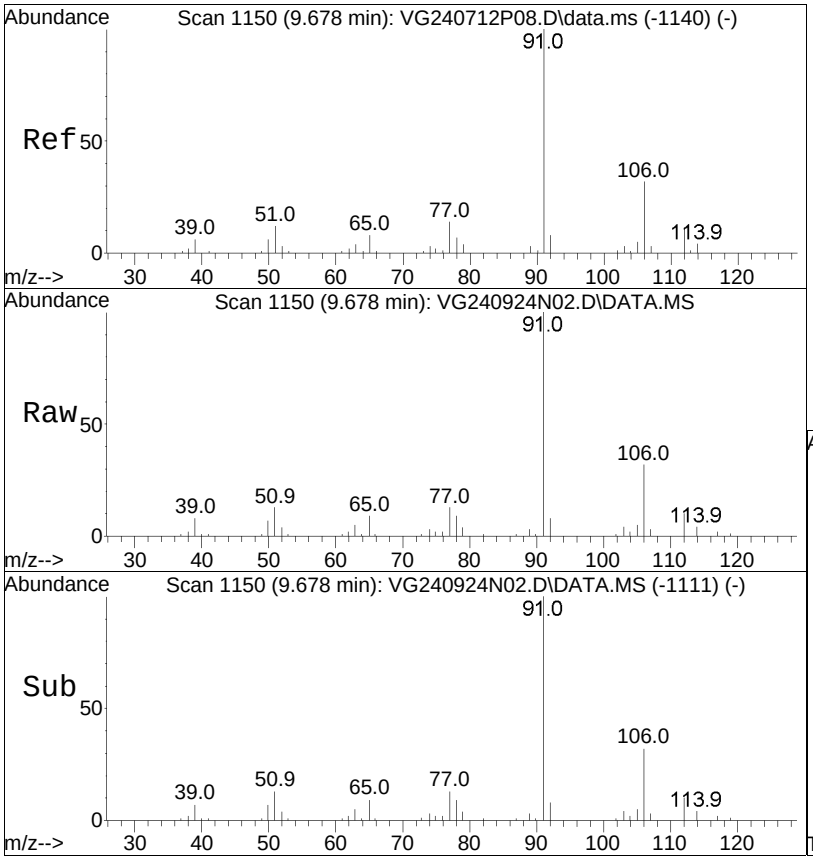


#73
Chlorobenzene
Concen: 9.95 ug/L
RT: 9.645 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:112 Resp: 140319

Ion	Ratio	Lower	Upper
112	100		
77	71.5	55.9	83.9
114	31.6	25.4	38.0

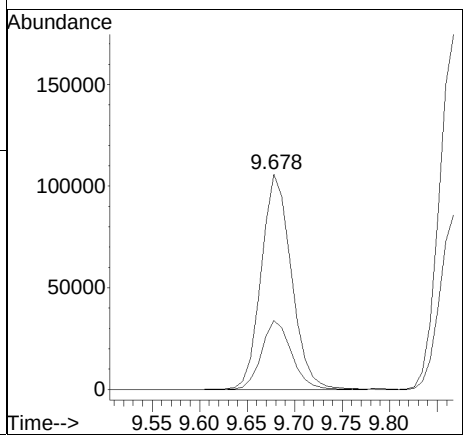


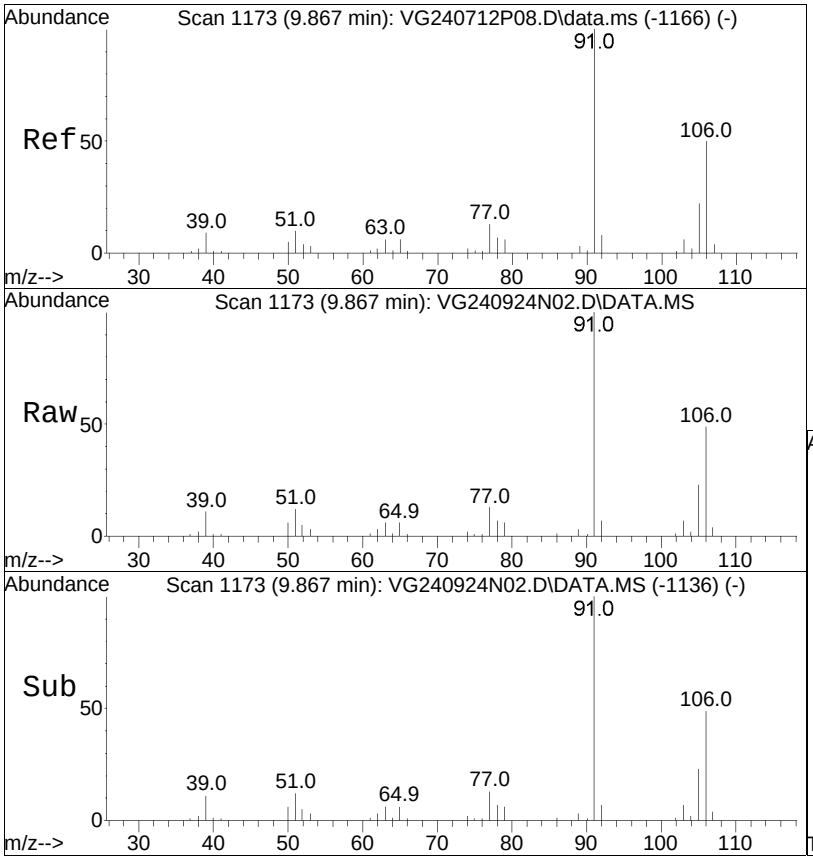


#74
Ethylbenzene
Concen: 9.70 ug/L
RT: 9.678 min Scan# 1150
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 91 Resp: 234474

Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.3	37.9

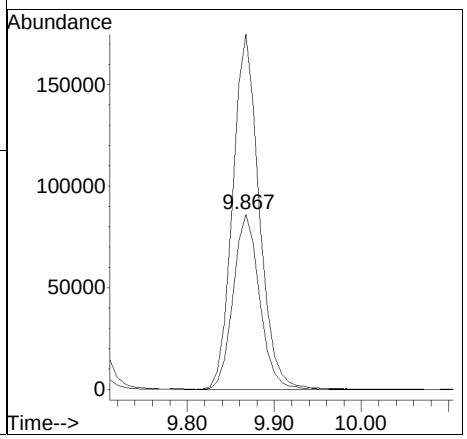


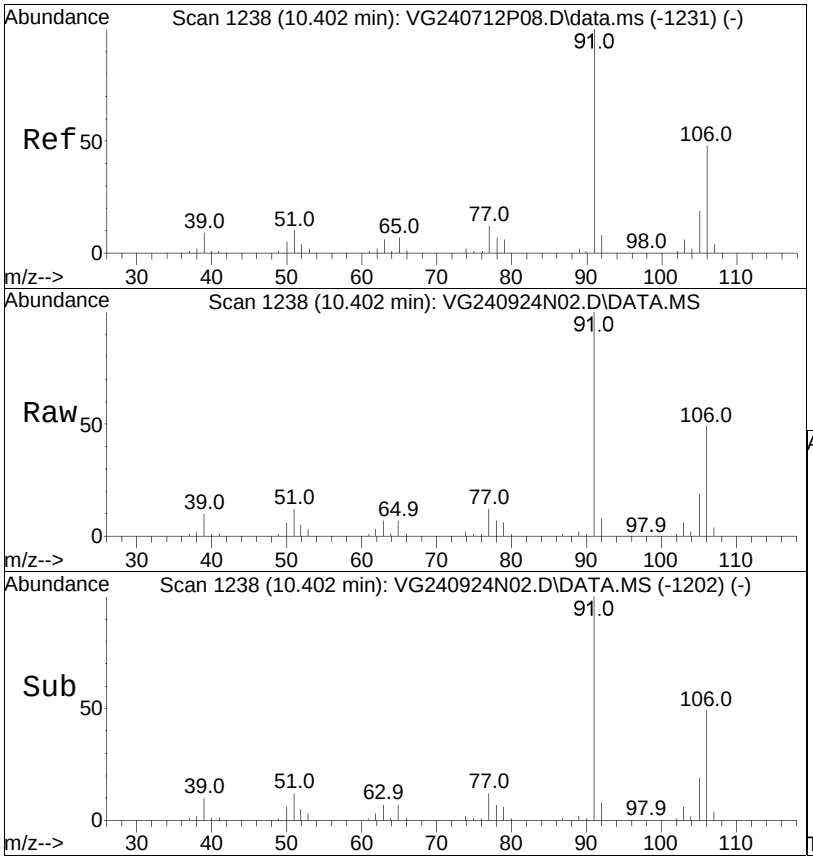


#76
p/m Xylene
Concen: 19.05 ug/L
RT: 9.867 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:106 Resp: 182014

Ion	Ratio	Lower	Upper
106	100		
91	203.3	157.1	235.7

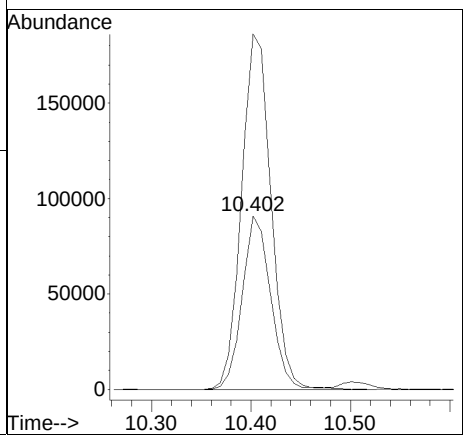


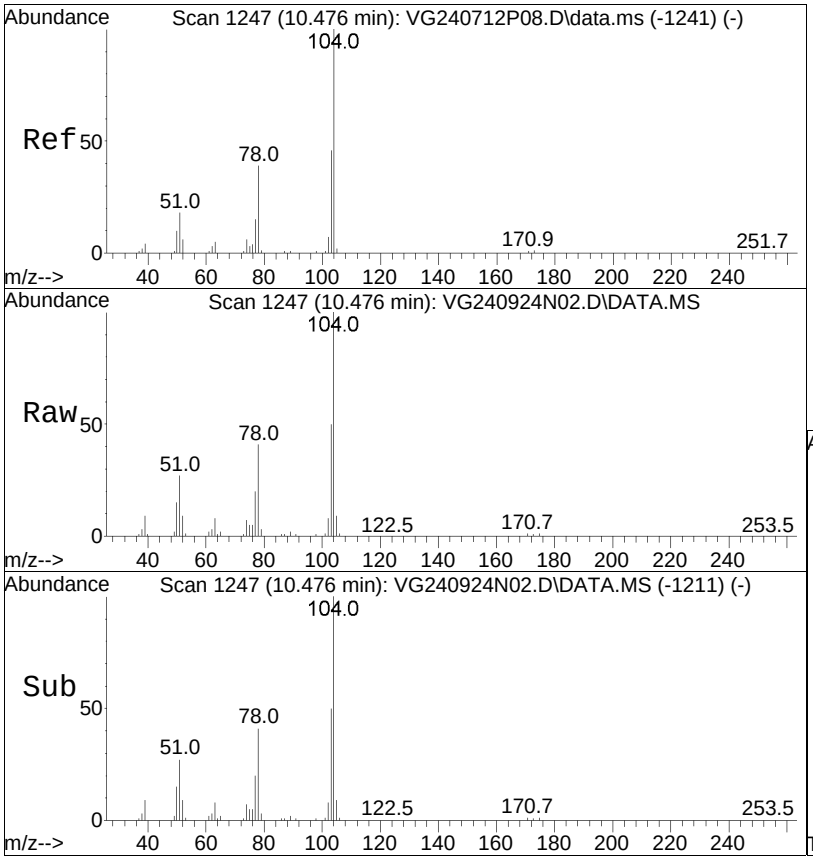


#77
o Xylene
Concen: 19.53 ug/L
RT: 10.402 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:106 Resp: 180828

Ion	Ratio	Lower	Upper
106	100		
91	210.9	164.7	247.1

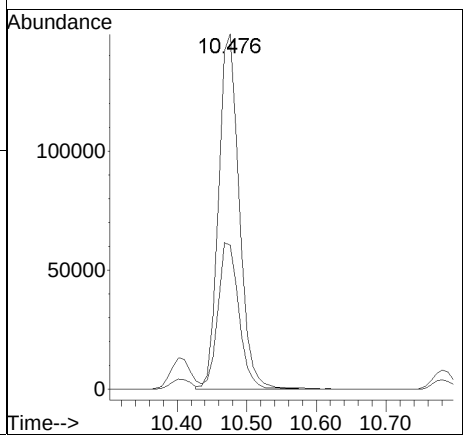


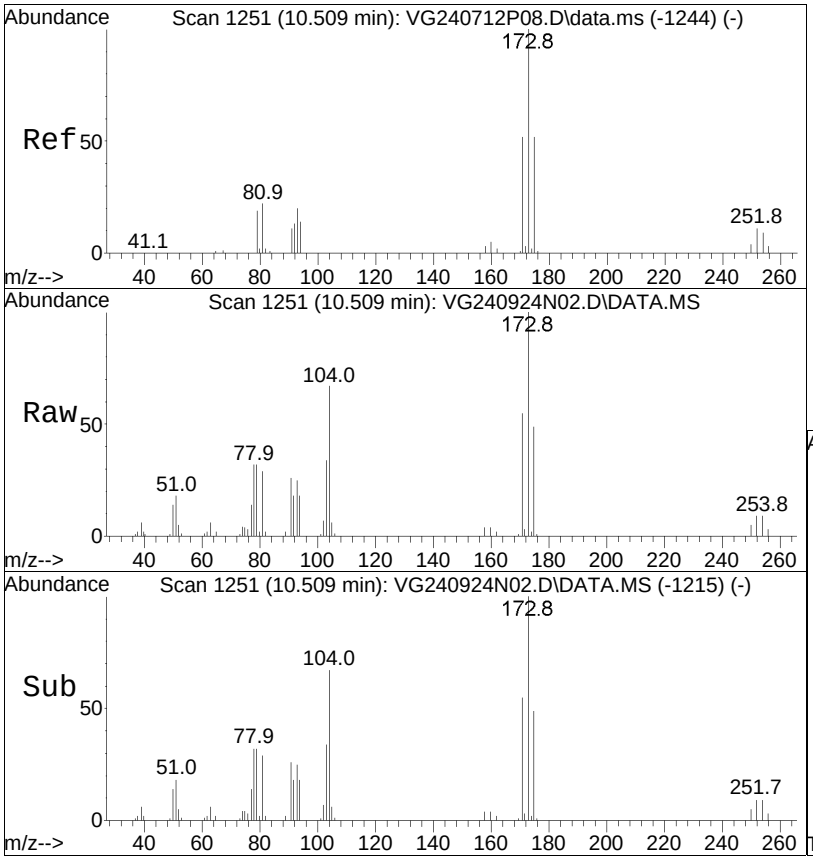


#78
Styrene
Concen: 19.68 ug/L
RT: 10.476 min Scan# 1247
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:104 Resp: 308698

Ion	Ratio	Lower	Upper
104	100		
78	42.0	32.2	48.4

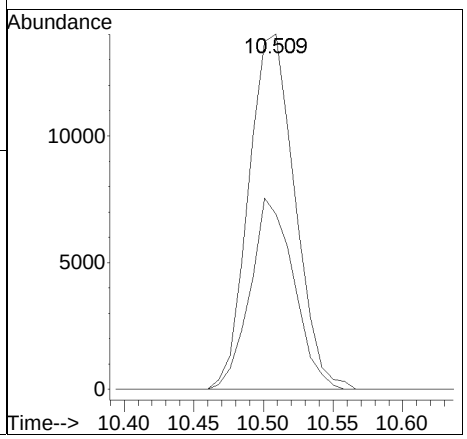


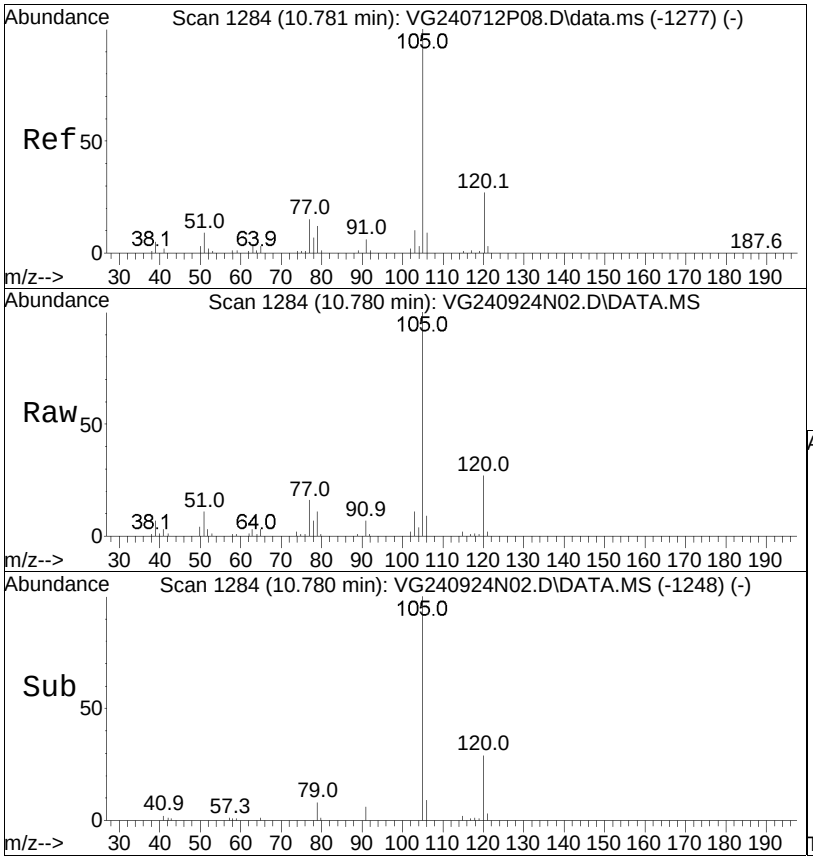


#80
Bromoform
Concen: 8.56 ug/L
RT: 10.509 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:173 Resp: 32332

Ion	Ratio	Lower	Upper
173	100		
175	50.8	28.0	68.0

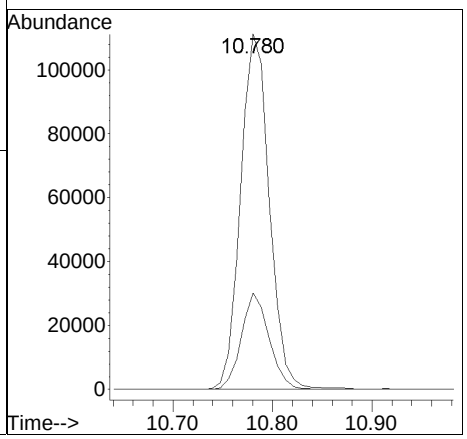


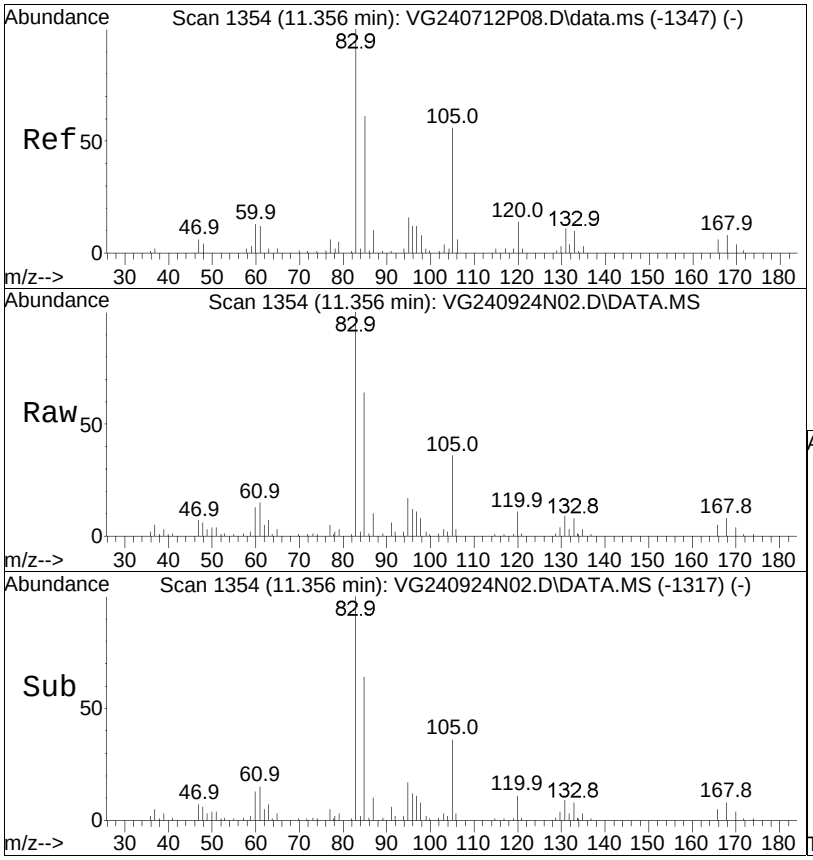


#82
Isopropylbenzene
Concen: 9.36 ug/L
RT: 10.780 min Scan# 1284
Delta R.T. -0.001 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:105 Resp: 223417

Ion	Ratio	Lower	Upper
105	100		
120	26.1	7.0	47.0

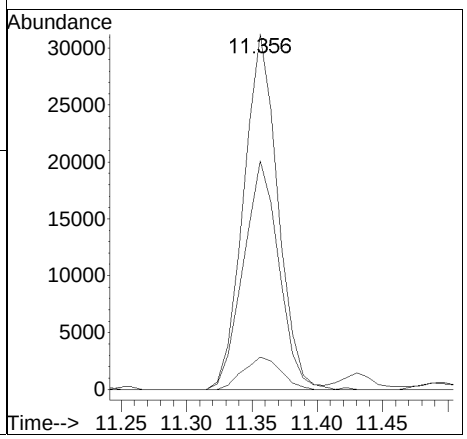


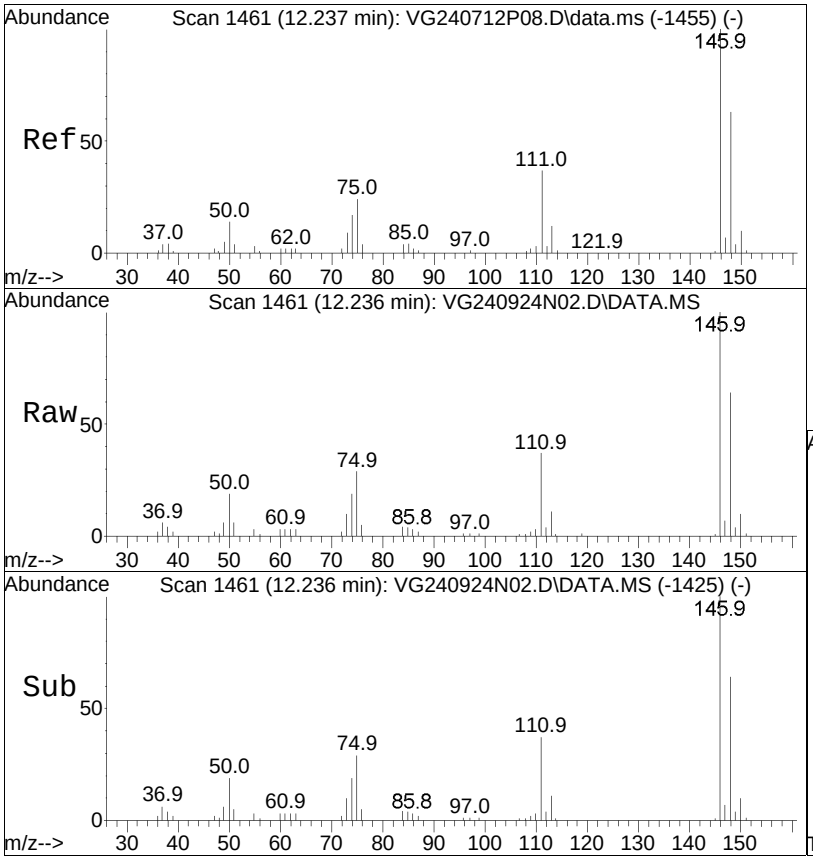


#87
1,1,2,2-Tetrachloroethane
Concen: 10.73 ug/L
RT: 11.356 min Scan# 1354
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion: 83 Resp: 56881

Ion	Ratio	Lower	Upper
83	100		
131	10.0	0.0	31.0
85	67.0	43.9	83.9

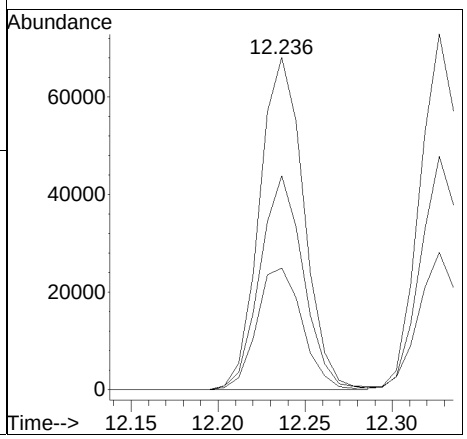


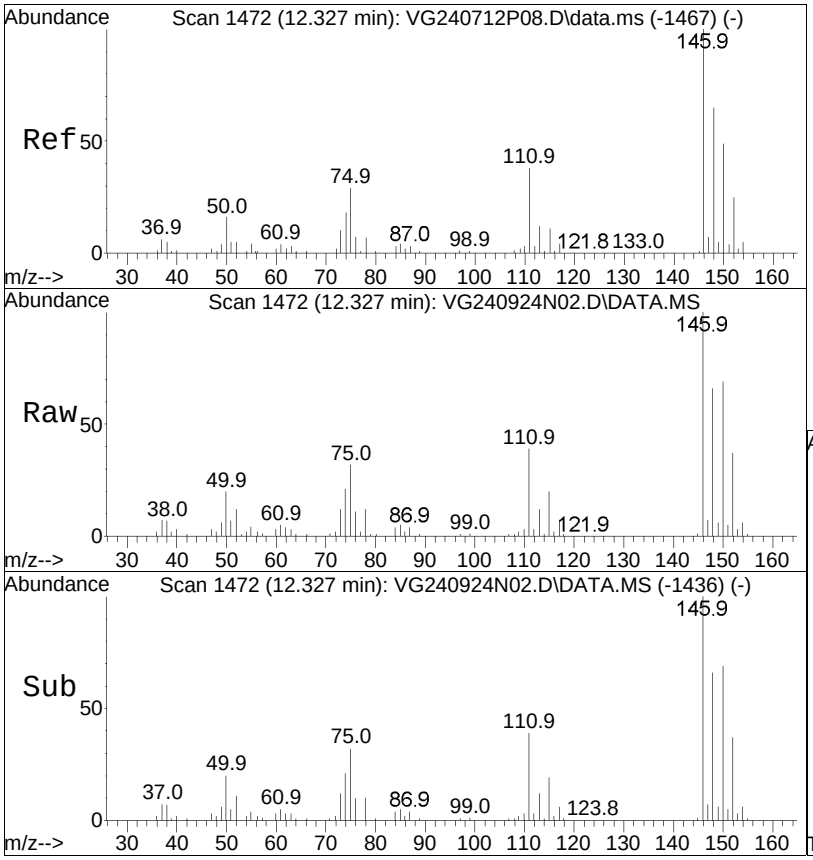


#100
1,3-Dichlorobenzene
Concen: 9.93 ug/L
RT: 12.236 min Scan# 1461
Delta R.T. -0.001 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:146 Resp: 120417

Ion	Ratio	Lower	Upper
146	100		
111	37.5	24.4	50.6
148	63.0	41.0	85.2

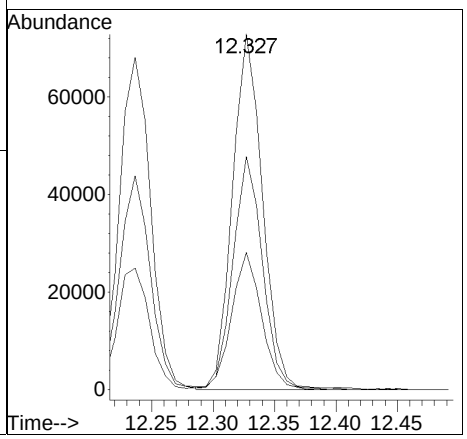


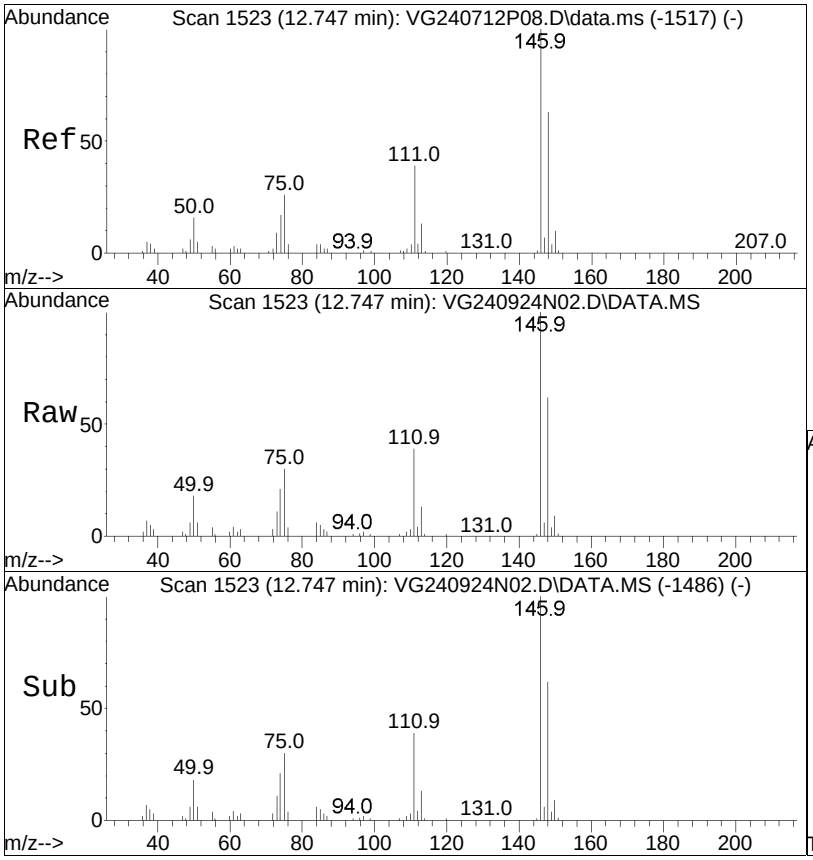


#101
1,4-Dichlorobenzene
Concen: 9.96 ug/L
RT: 12.327 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:146 Resp: 124280

Ion	Ratio	Lower	Upper
146	100		
111	38.6	29.3	43.9
148	64.3	51.2	76.8

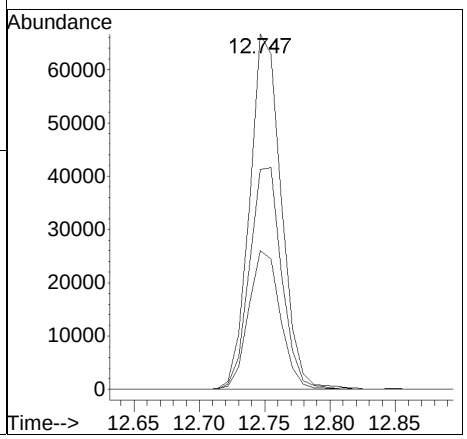


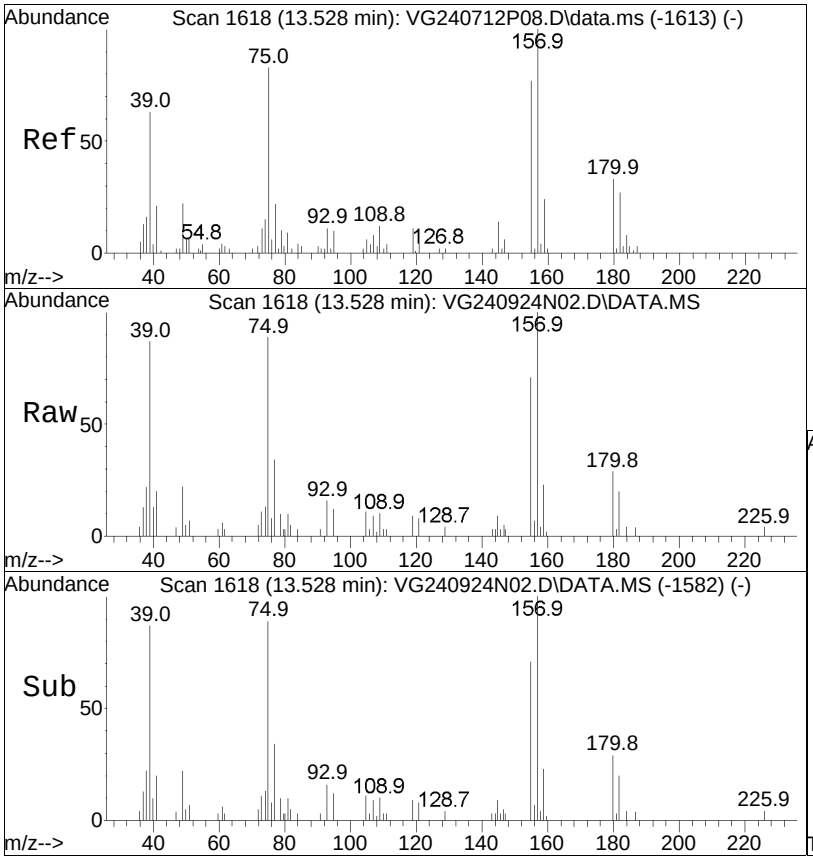


#104
1,2-Dichlorobenzene
Concen: 9.73 ug/L
RT: 12.747 min Scan# 1523
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:146 Resp: 112470

Ion	Ratio	Lower	Upper
146	100		
111	39.3	25.4	52.8
148	63.6	41.7	86.5

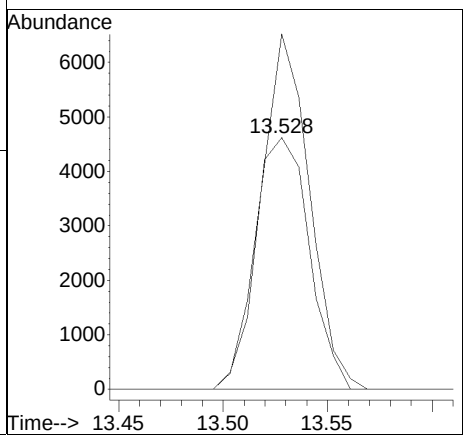


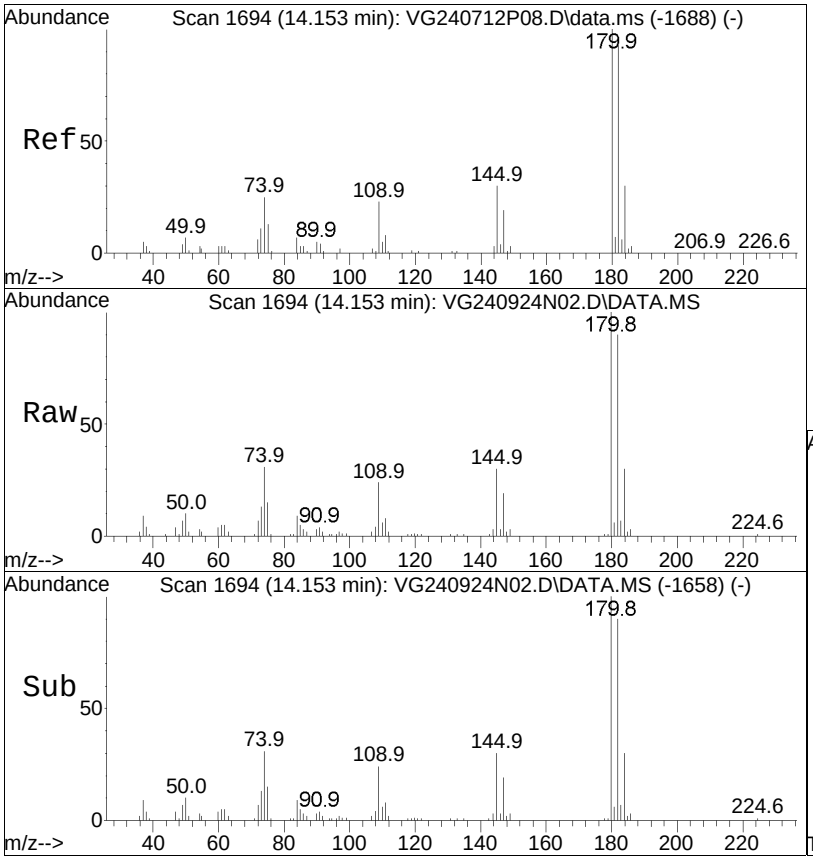


#106
1,2-Dibromo-3-chloropropane
Concen: 8.45 ug/L
RT: 13.528 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:155 Resp: 8310

Ion	Ratio	Lower	Upper
155	100		
157	127.7	99.9	149.9

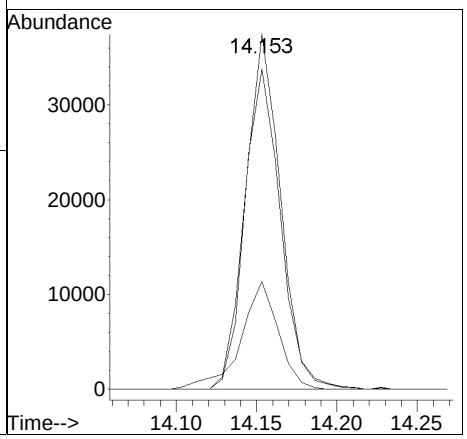


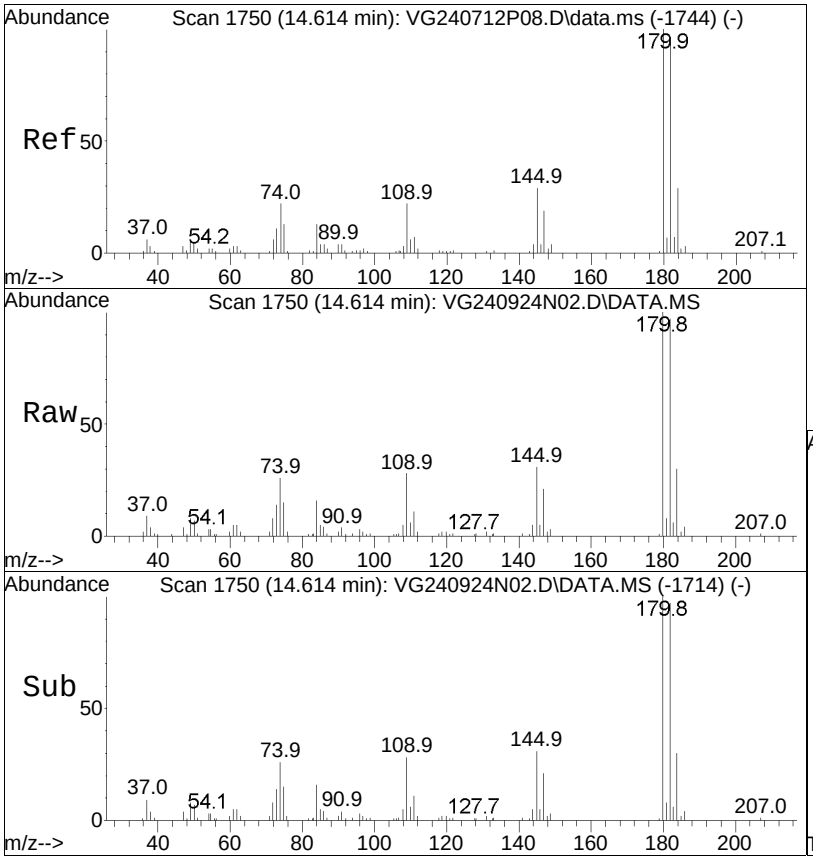


#109
1,2,4-Trichlorobenzene
Concen: 8.64 ug/L
RT: 14.153 min Scan# 1694
Delta R.T. 0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:180 Resp: 56960

Ion	Ratio	Lower	Upper
180	100		
182	92.1	76.7	115.1
145	32.5	26.5	39.7

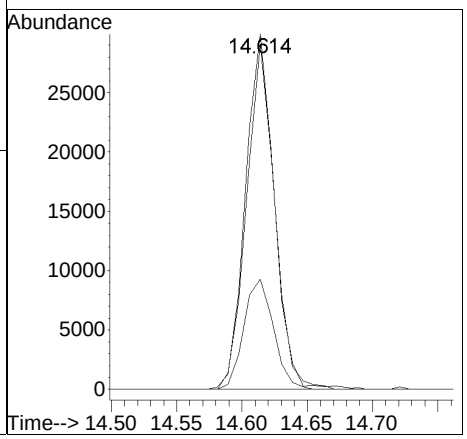




#111
1,2,3-Trichlorobenzene
Concen: 8.37 ug/L
RT: 14.614 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VG240924N02.D
Acq: 24 Sep 2024 7:41 pm

Tgt Ion:180 Resp: 45850

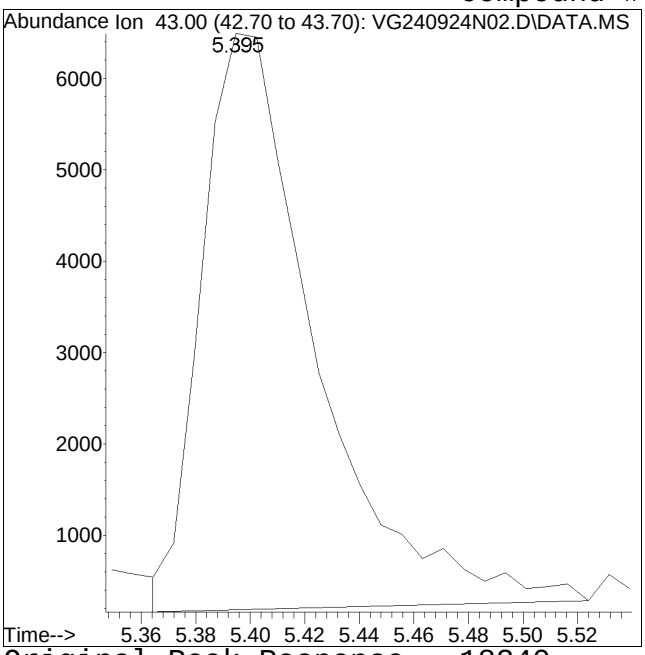
Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.0	115.4
145	32.0	24.1	36.1



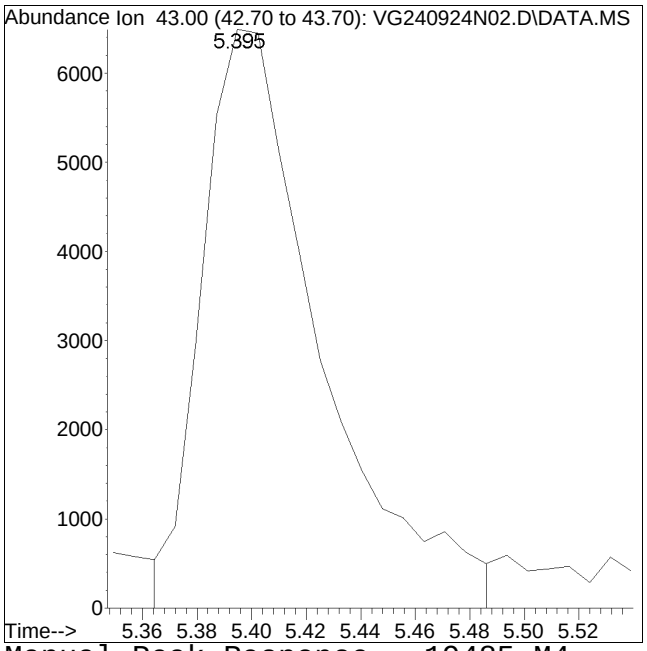
Manual Integration Report

Data Path	: K:\Gonzo\2024\240924N\	QMethod	: G_240712P_8260.m
Data File	: VG240924N02.D	Operator	: GONZO:MAG
Date Inj'd	: 9/24/2024 7:41 pm	Instrument	: Gonzo
Sample	: WG1976114-4,31,10,10	Quant Date	: 9/24/2024 8:04 pm

Compound #39: 2-Butanone



Original Peak Response = 18340



Manual Peak Response = 19485 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N25.D
Acq On : 25 Sep 2024 4:48 am
Operator : GONZO:MJV
Sample : WG1976114-6,31,10,10,,A1
Misc : WG1976114,ICAL21287
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 25 11:11:25 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	268757	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 113.25%			
59) Chlorobenzene-d5	9.629	117	203486	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 109.17%			
79) 1,4-Dichlorobenzene-d4	12.311	152	116837	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 108.92%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.273	113	67503	9.616	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.16%			
43) 1,2-Dichloroethane-d4	5.805	65	79311	10.636	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.36%			
60) Toluene-d8	7.772	98	256476	10.040	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.40%			
83) 4-Bromofluorobenzene	11.110	95	90638	9.288	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	79517	11.144	ug/L	98
3) Chloromethane	1.900	50	67425	11.047	ug/L	97
4) Vinyl chloride	1.953	62	74041	11.709	ug/L	100
5) Bromomethane	2.257	94	10841	3.238	ug/L	95
6) Chloroethane	2.364	64	76852	15.898	ug/L	96
7) Trichlorofluoromethane	2.516	101	99704	10.755	ug/L	99
10) 1,1-Dichloroethene	3.017	96	51725	10.174	ug/L	85
11) Carbon disulfide	3.047	76	162907	10.896	ug/L	100
12) Freon-113	3.047	101	52810	9.467	ug/L #	64
15) Methylene chloride	3.579	84	58227	9.687	ug/L	79
17) Acetone	3.625	43	15911	11.363	ug/L	99
18) trans-1,2-Dichloroethene	3.724	96	53995	9.709	ug/L	88
19) Methyl acetate	3.739	43	25749	8.329	ug/L #	88
20) Methyl tert-butyl ether	3.807	73	148119	8.662	ug/L	88
23) 1,1-Dichloroethane	4.316	63	108382	10.759	ug/L	98
28) cis-1,2-Dichloroethene	4.833	96	61870	9.675	ug/L	93
30) Bromochloromethane	5.030	128	30334	9.696	ug/L #	82
31) Cyclohexane	5.015	56	88955	9.310	ug/L	81
32) Chloroform	5.099	83	106079	10.287	ug/L	95
34) Carbon tetrachloride	5.228	117	81798	9.788	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N25.D
Acq On : 25 Sep 2024 4:48 am
Operator : GONZO:MJV
Sample : WG1976114-6,31,10,10,,A1
Misc : WG1976114,ICAL21287
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 25 11:11:25 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	5.289	97	98295	10.336	ug/L	95
39) 2-Butanone	5.395	43	19757	10.135	ug/L	87
41) Benzene	5.661	78	245543	10.664	ug/L	95
44) 1,2-Dichloroethane	5.874	62	84096	11.460	ug/L	98
47) Methyl cyclohexane	6.246	83	73526	8.218	ug/L	85
48) Trichloroethene	6.261	95	63760	9.820	ug/L	98
51) 1,2-Dichloropropane	6.808	63	60402	10.752	ug/L	97
54) Bromodichloromethane	6.884	83	82293	10.035	ug/L	98
58) cis-1,3-Dichloropropene	7.571	75	81821	8.921	ug/L	91
61) Toluene	7.836	92	149564	10.576	ug/L	94
62) 4-Methyl-2-pentanone	8.273	58	15092	9.679	ug/L	83
63) Tetrachloroethene	8.281	166	59657	9.610	ug/L	92
65) trans-1,3-Dichloropropene	8.324	75	72162	9.321	ug/L	94
68) 1,1,2-Trichloroethane	8.510	83	43408	11.186	ug/L	97
69) Chlorodibromomethane	8.725	129	60959	9.935	ug/L	96
71) 1,2-Dibromoethane	9.004	107	48648	9.883	ug/L	99
72) 2-Hexanone	9.283	43	27520	9.517	ug/L	92
73) Chlorobenzene	9.645	112	165512	10.502	ug/L	99
74) Ethylbenzene	9.678	91	271741	10.064	ug/L	100
76) p/m Xylene	9.867	106	215788	20.213	ug/L	97
77) o Xylene	10.402	106	209488	20.257	ug/L	97
78) Styrene	10.476	104	354999	20.257	ug/L	98
80) Bromoform	10.509	173	38222	9.234	ug/L	98
82) Isopropylbenzene	10.781	105	261365	9.999	ug/L	98
87) 1,1,2,2-Tetrachloroethane	11.356	83	65033	11.195	ug/L	98
100) 1,3-Dichlorobenzene	12.237	146	135210	10.184	ug/L	99
101) 1,4-Dichlorobenzene	12.327	146	141327	10.335	ug/L	99
104) 1,2-Dichlorobenzene	12.747	146	128886	10.177	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.528	155	8637	8.016	ug/L	95
109) 1,2,4-Trichlorobenzene	14.153	180	60305	8.354	ug/L	97
111) 1,2,3-Trichlorobenzene	14.614	180	46660	7.773	ug/L	98

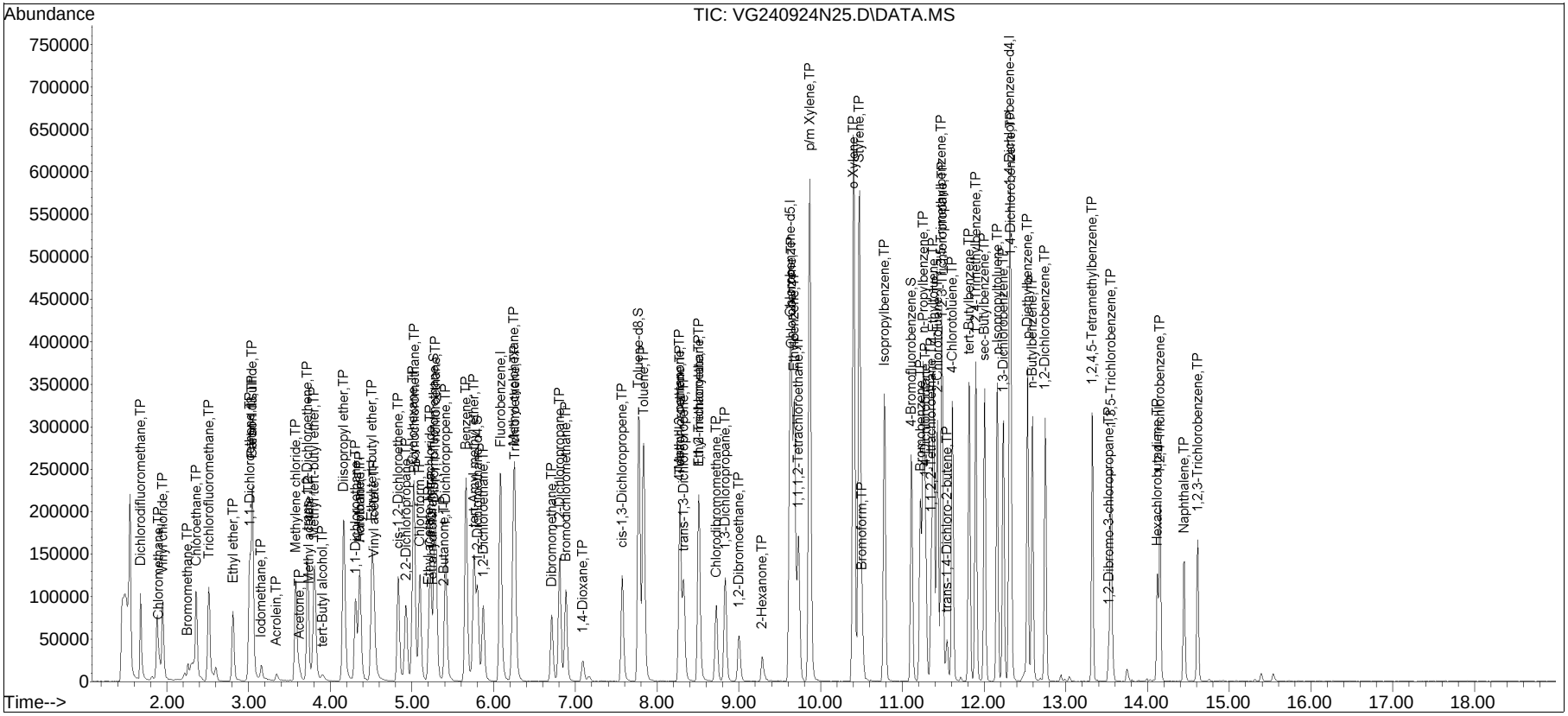
(#) = qualifier out of range (m) = manual integration (+) = signals summed

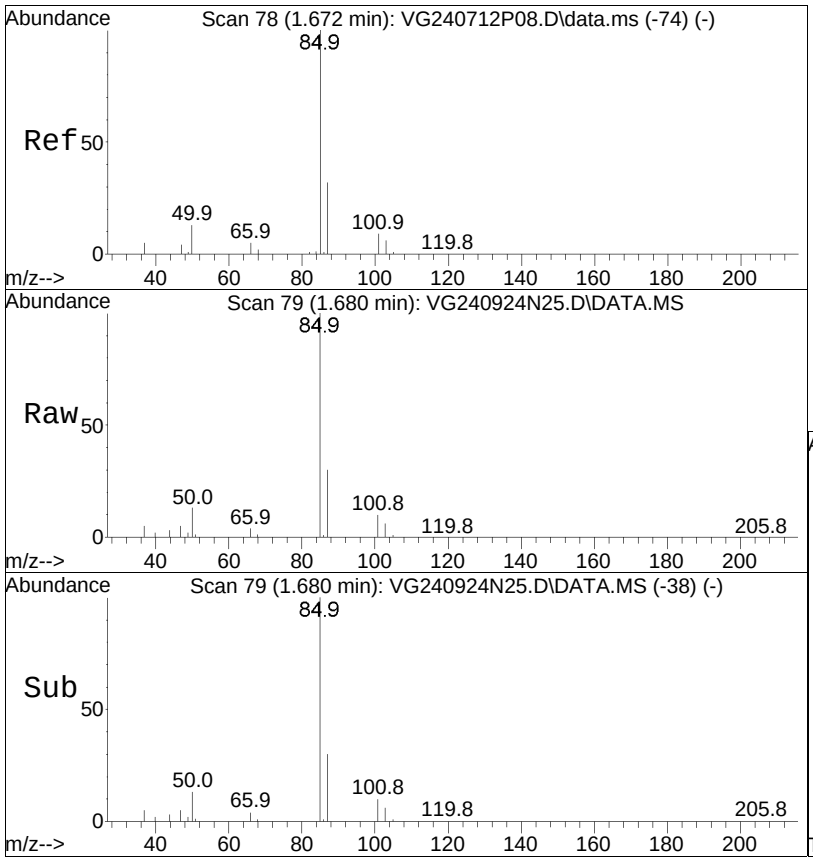
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N25.D
Acq On : 25 Sep 2024 4:48 am
Operator : GONZO:MJV
Sample : WG1976114-6,31,10,10,,A1
Misc : WG1976114,ICAL21287
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 25 11:11:25 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

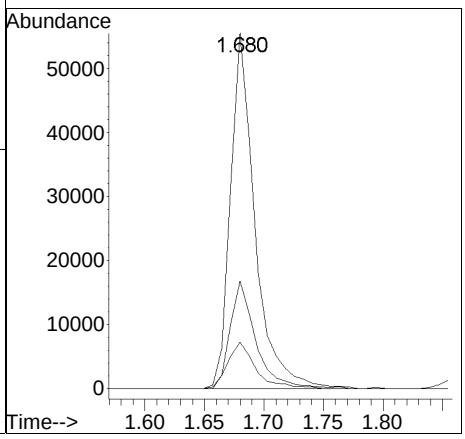


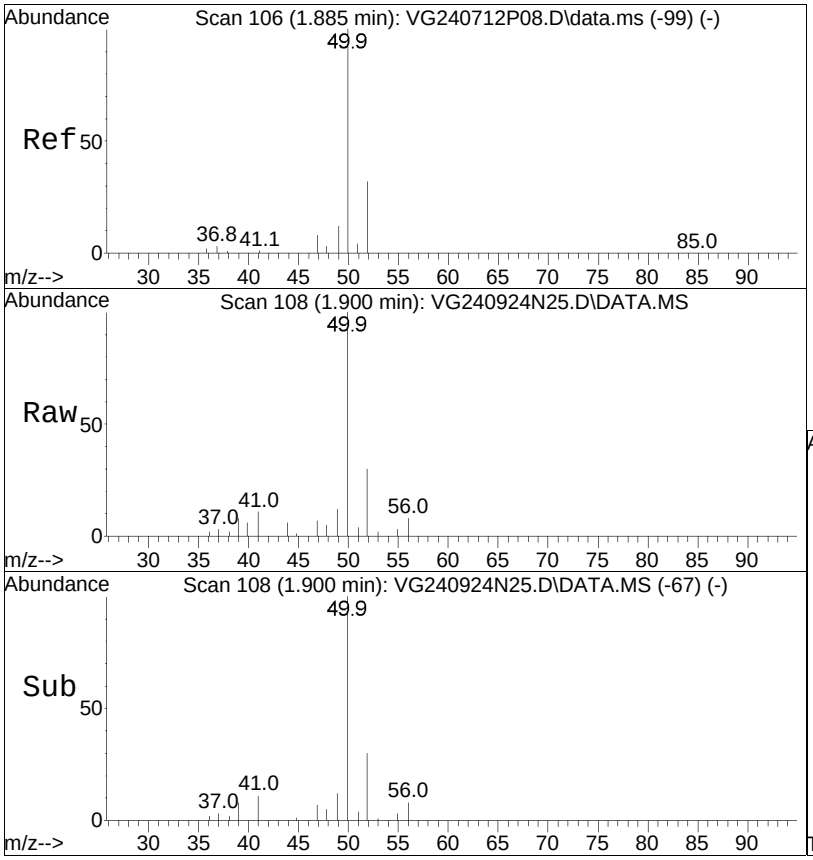


#2
Dichlorodifluoromethane
Concen: 11.14 ug/L
RT: 1.680 min Scan# 79
Delta R.T. 0.008 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 85 Resp: 79517

Ion	Ratio	Lower	Upper
85	100		
87	31.6	20.7	42.9
50	14.6	7.5	15.5

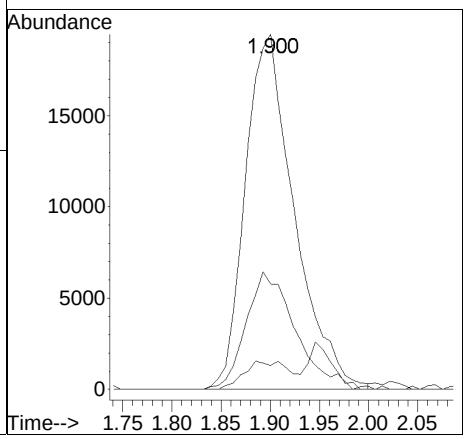


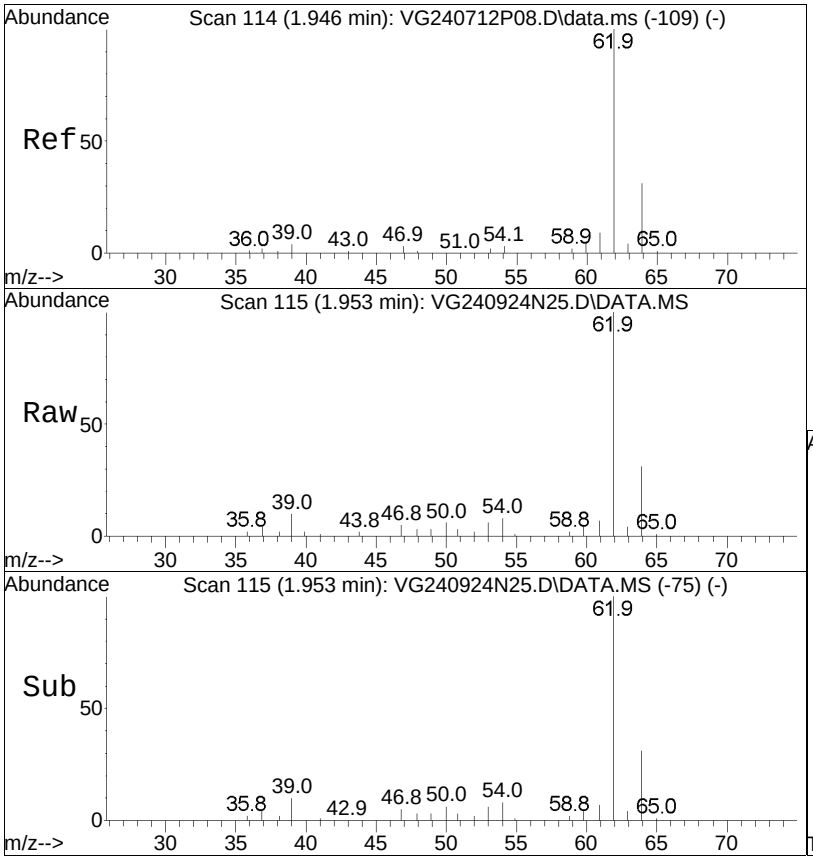


#3
Chloromethane
Concen: 11.05 ug/L
RT: 1.900 min Scan# 108
Delta R.T. 0.015 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 50 Resp: 67425

Ion	Ratio	Lower	Upper
50	100		
52	33.3	11.7	51.7
47	7.5	0.0	28.0

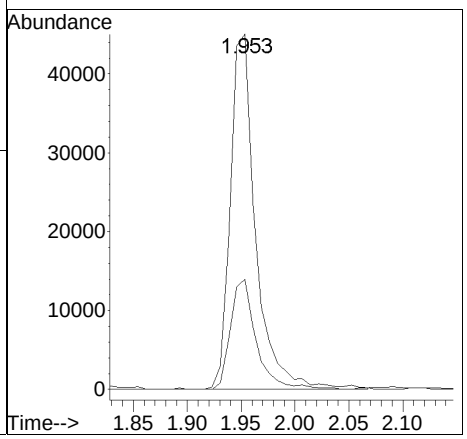


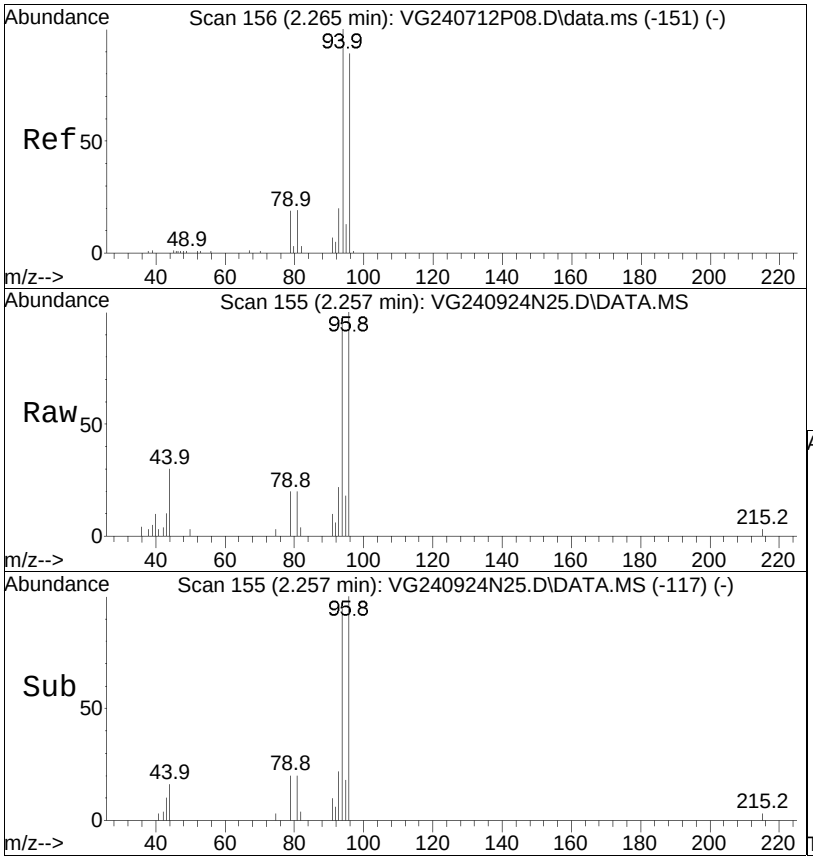


#4
Vinyl chloride
Concen: 11.71 ug/L
RT: 1.953 min Scan# 115
Delta R.T. 0.007 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 62 Resp: 74041

Ion	Ratio	Lower	Upper
62	100		
64	31.5	11.3	51.3

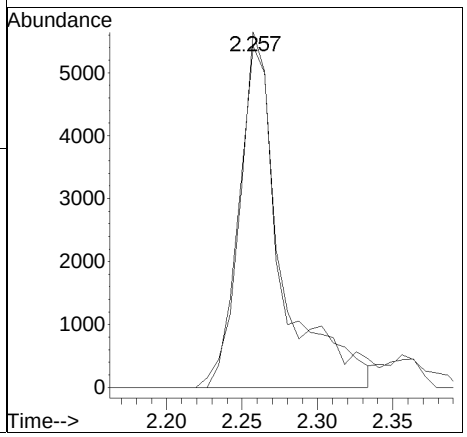


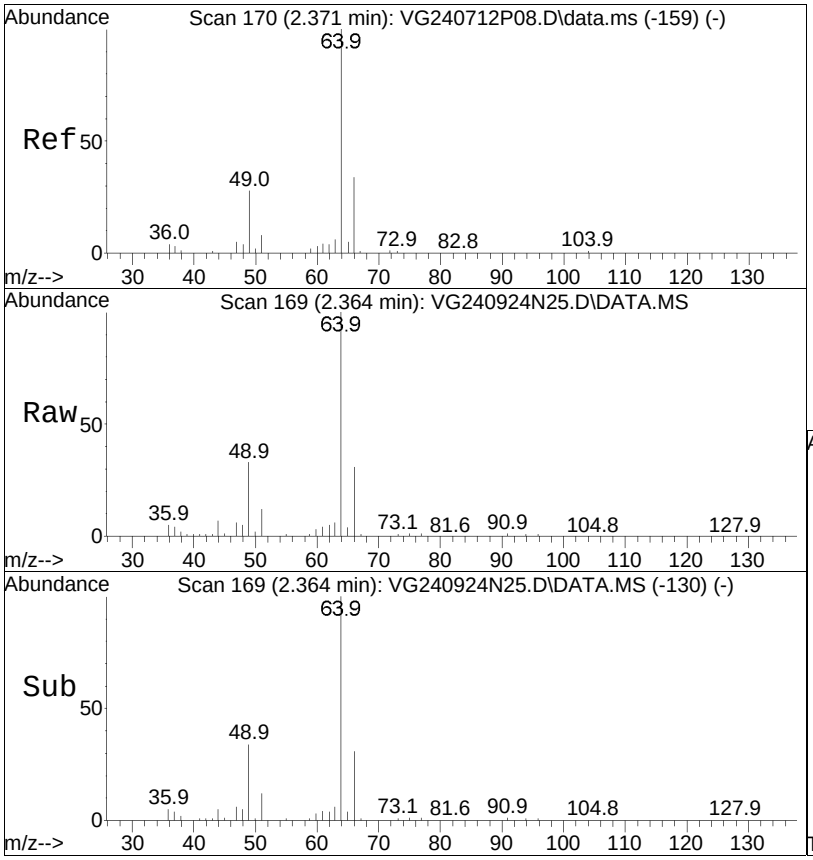


#5
Bromomethane
Concen: 3.24 ug/L
RT: 2.257 min Scan# 155
Delta R.T. -0.008 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 94 Resp: 10841

Ion	Ratio	Lower	Upper
94	100		
96	100.5	75.2	115.2

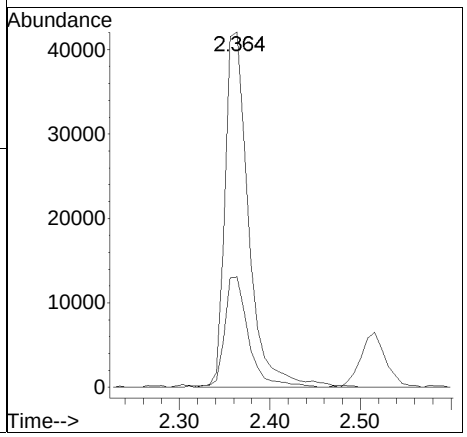


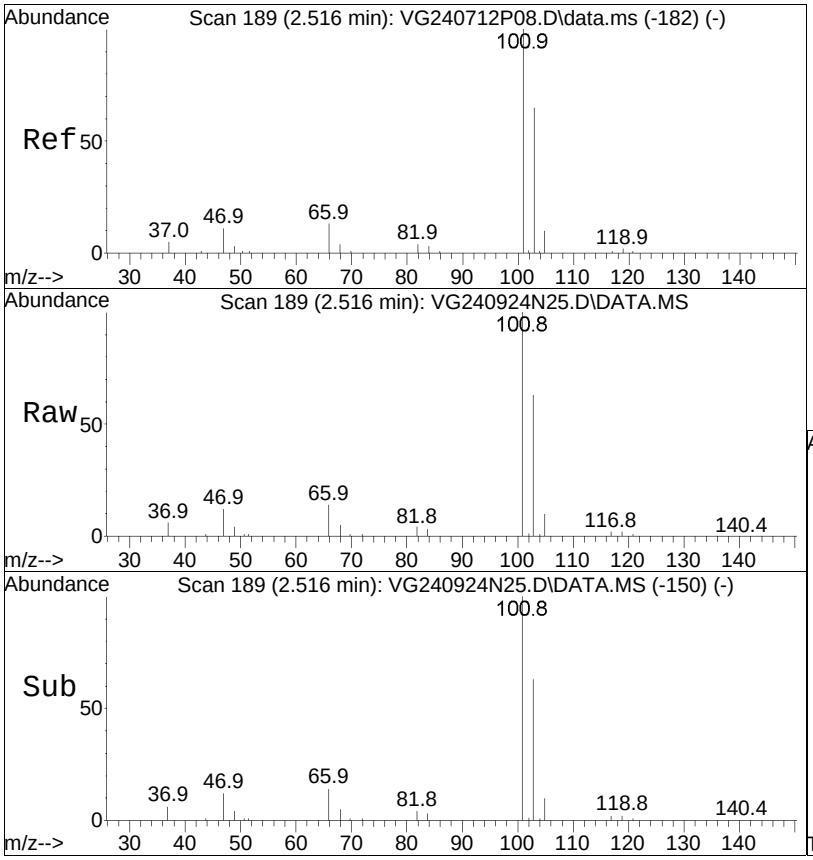


#6
Chloroethane
Concen: 15.90 ug/L
RT: 2.364 min Scan# 169
Delta R.T. -0.007 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 64 Resp: 76852

Ion	Ratio	Lower	Upper
64	100		
66	31.6	13.7	53.7

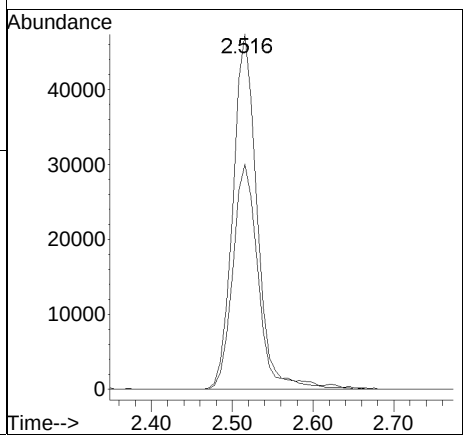


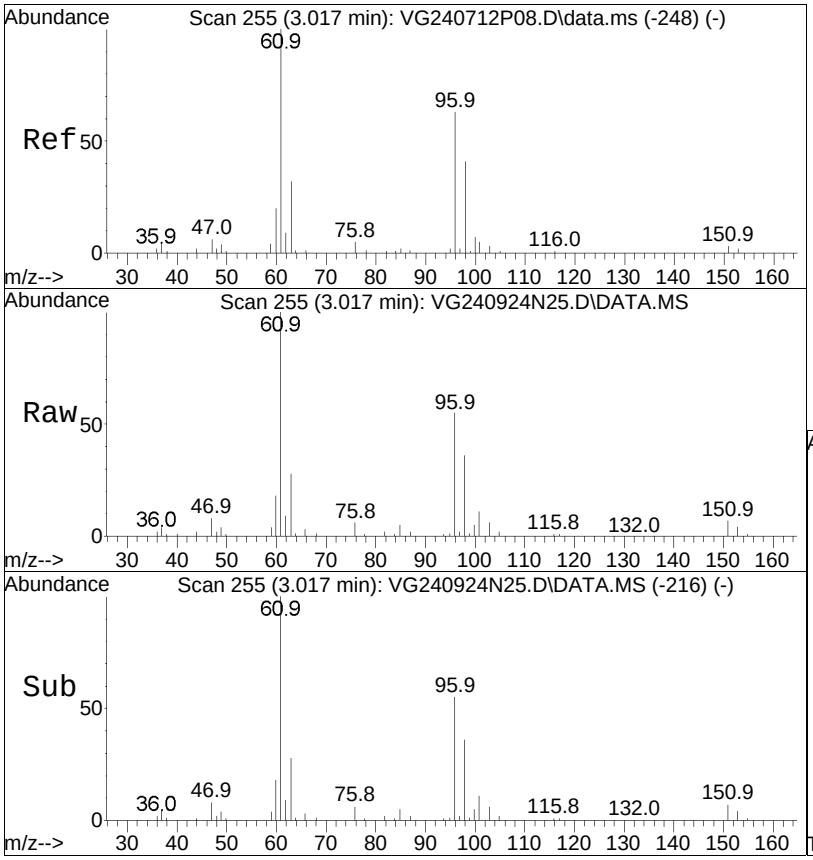


#7
Trichlorofluoromethane
Concen: 10.75 ug/L
RT: 2.516 min Scan# 189
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:101 Resp: 99704

Ion	Ratio	Lower	Upper
101	100		
103	66.0	52.2	78.2

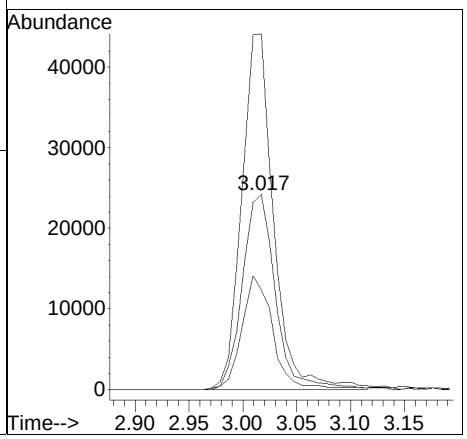


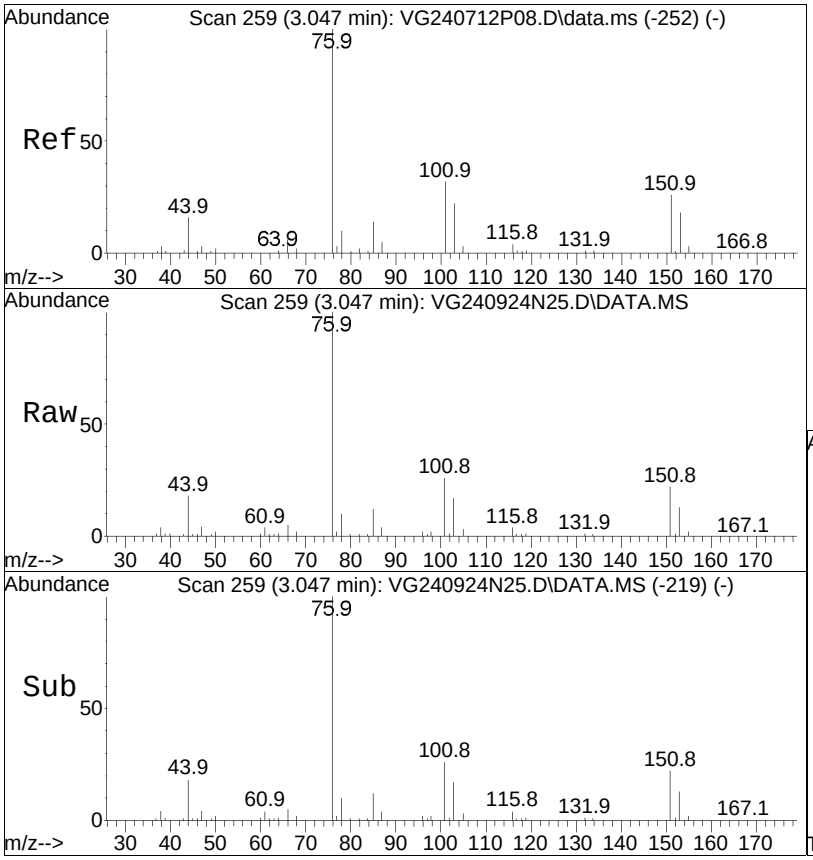


#10
1,1-Dichloroethene
Concen: 10.17 ug/L
RT: 3.017 min Scan# 255
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 96 Resp: 51725

Ion	Ratio	Lower	Upper
96	100		
61	177.2	124.2	186.4
63	55.0	40.0	60.0

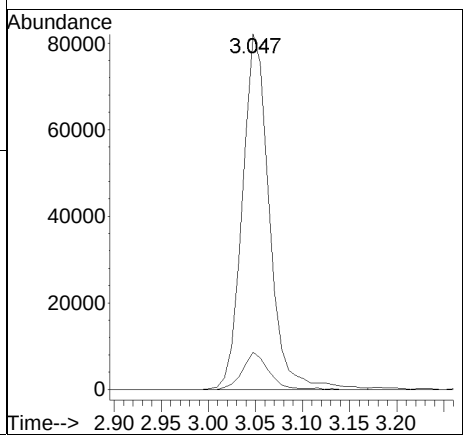


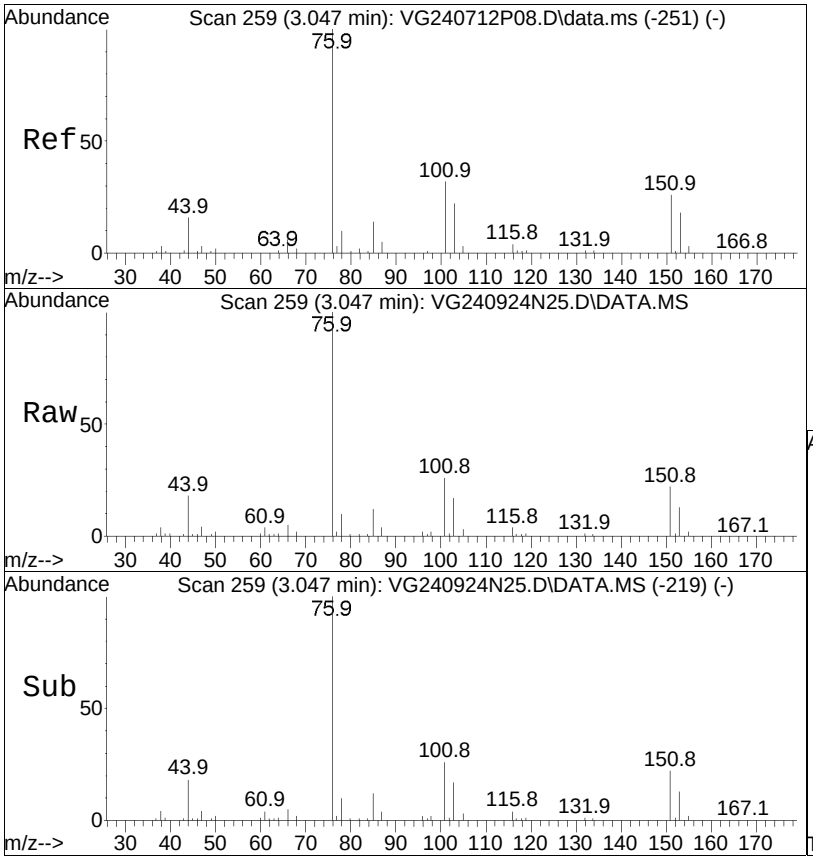


#11
Carbon disulfide
Concen: 10.90 ug/L
RT: 3.047 min Scan# 259
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 76 Resp: 162907

Ion	Ratio	Lower	Upper
76	100		
78	10.2	6.6	13.6

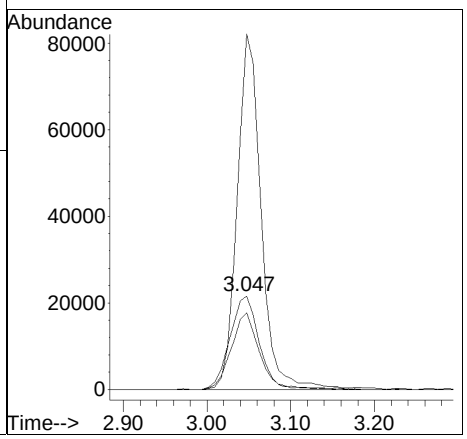


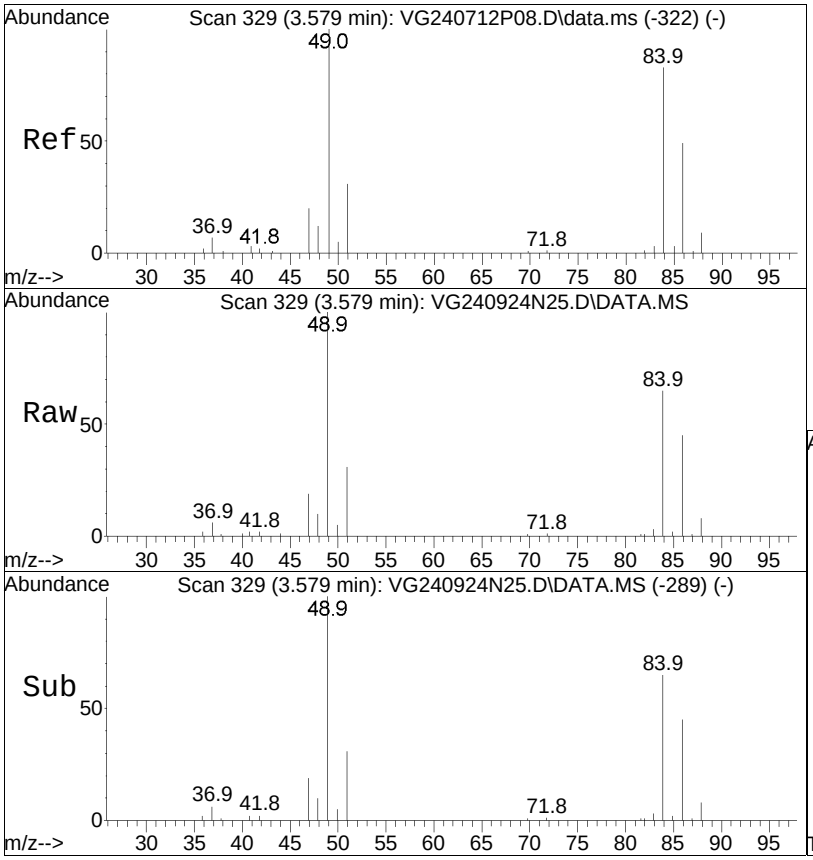


#12
Freon-113
Concen: 9.47 ug/L
RT: 3.047 min Scan# 259
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:101 Resp: 52810

Ion	Ratio	Lower	Upper
101	100		
151	77.9	68.2	102.2
76	308.5	186.0	279.0#

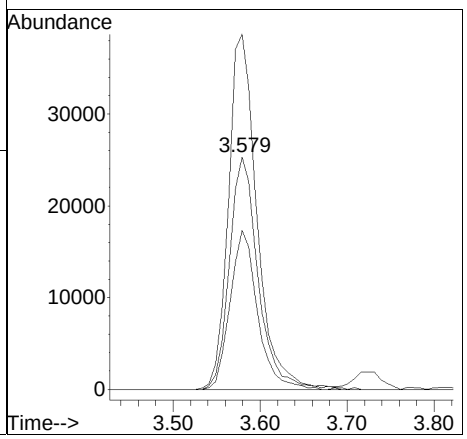


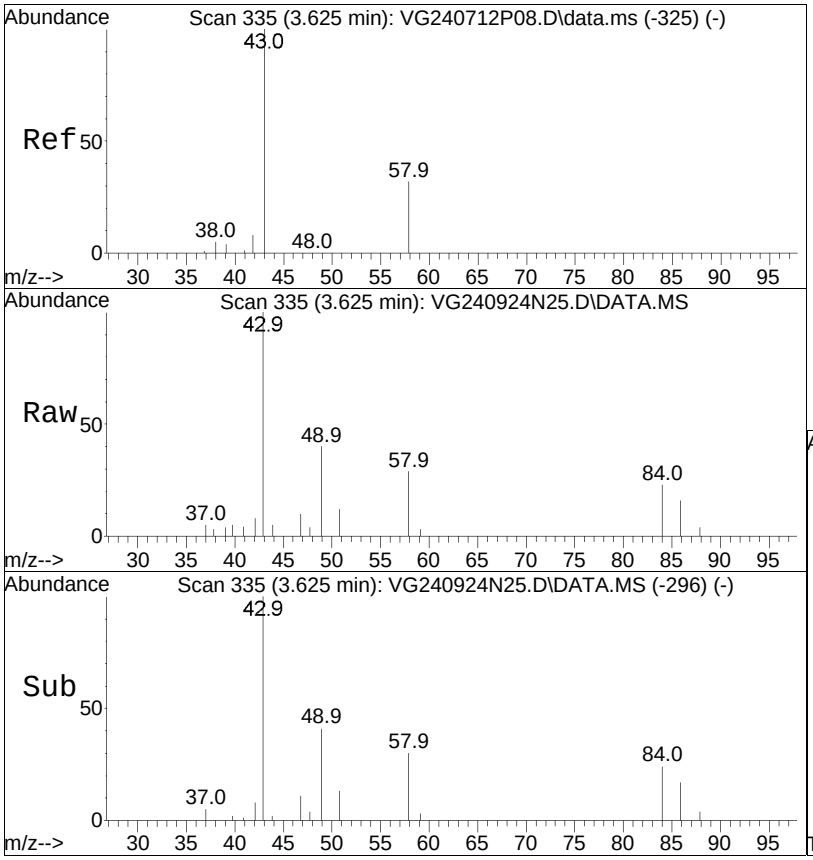


#15
Methylene chloride
Concen: 9.69 ug/L
RT: 3.579 min Scan# 329
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 84 Resp: 58227

Ion	Ratio	Lower	Upper
84	100		
86	65.4	41.1	85.5
49	151.0	76.2	158.2

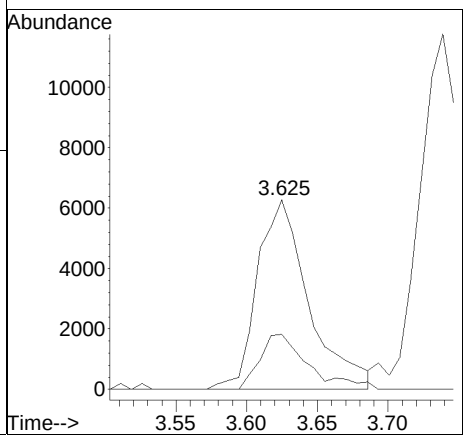


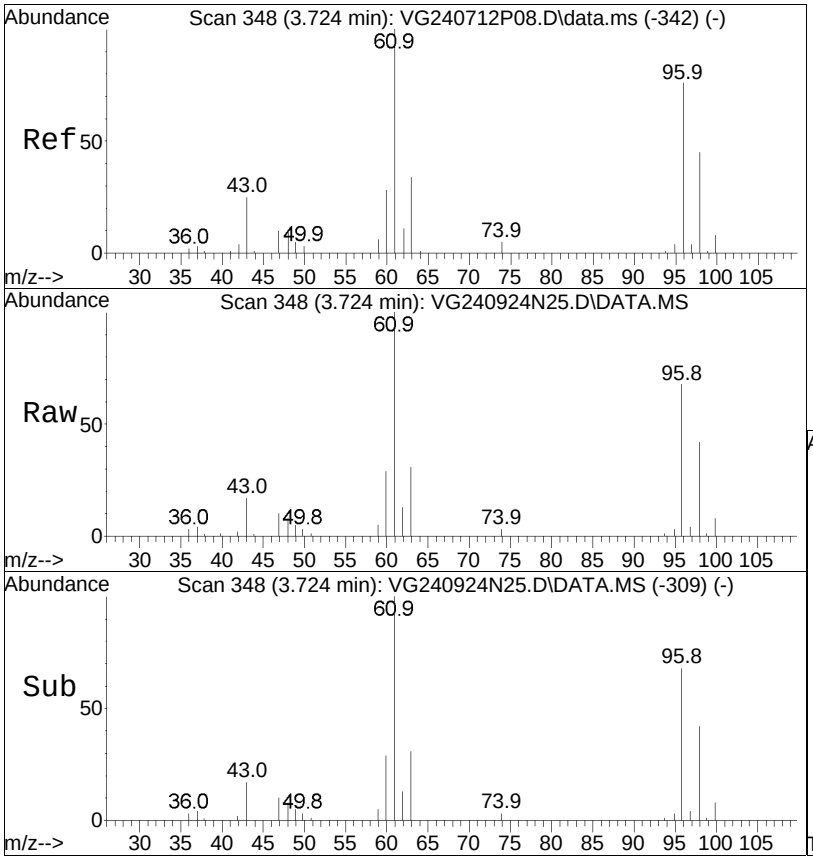


#17
Acetone
Concen: 11.36 ug/L
RT: 3.625 min Scan# 335
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 43 Resp: 15911

Ion	Ratio	Lower	Upper
43	100		
58	27.4	22.2	33.4

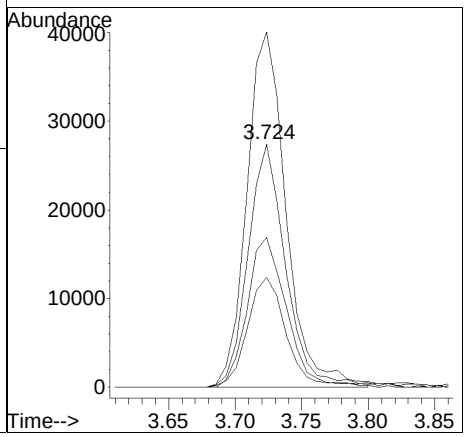


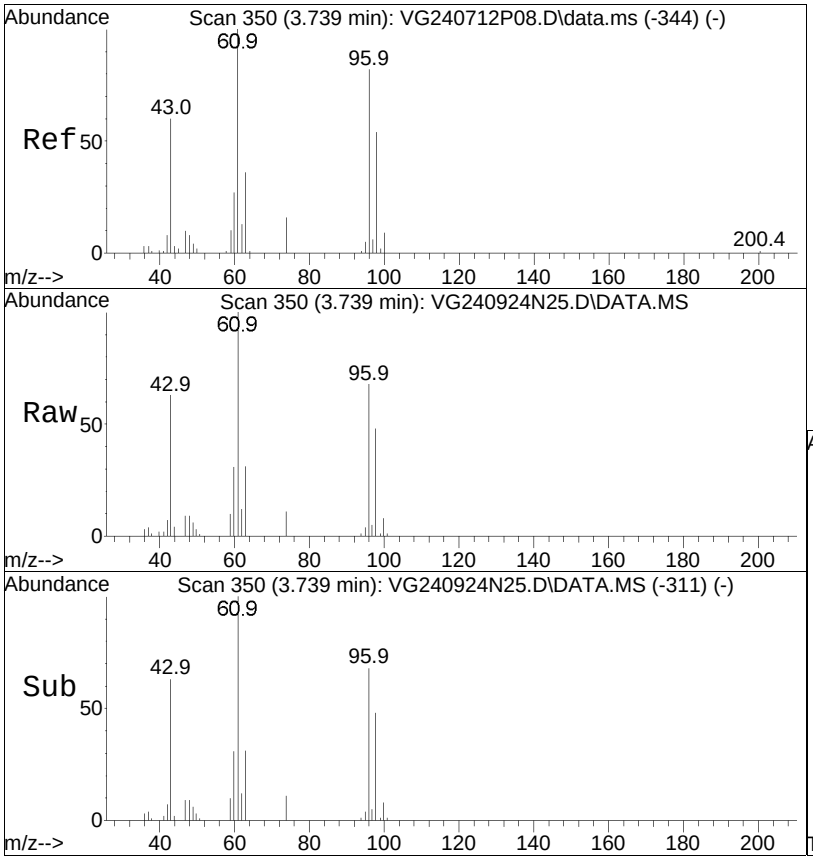


#18
trans-1,2-Dichloroethene
Concen: 9.71 ug/L
RT: 3.724 min Scan# 348
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 96 Resp: 53995

Ion	Ratio	Lower	Upper
96	100		
61	153.0	85.7	178.1
98	65.4	40.2	83.4
63	47.0	28.0	58.2

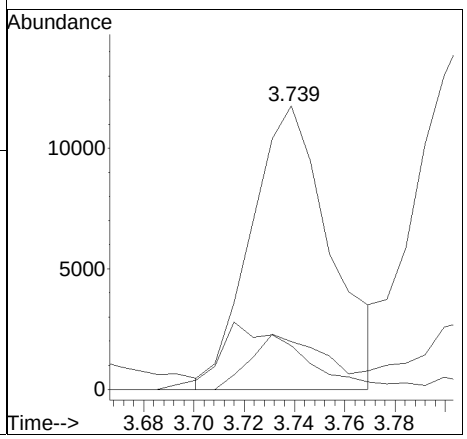


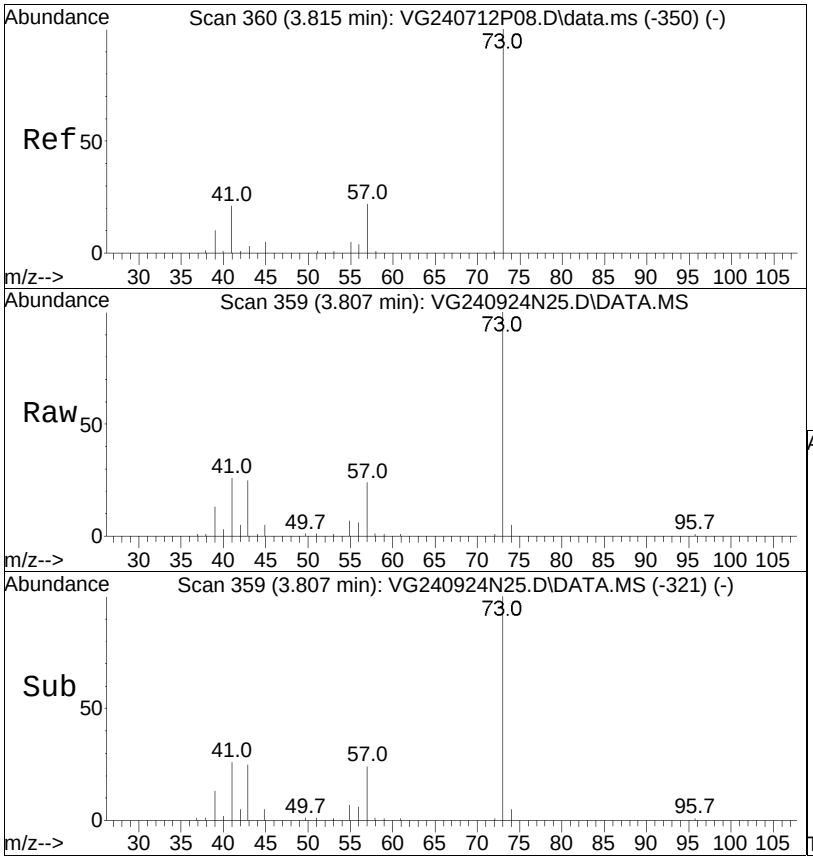


#19
Methyl acetate
Concen: 8.33 ug/L
RT: 3.739 min Scan# 350
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 43 Resp: 25749

Ion	Ratio	Lower	Upper
43	100		
74	19.0	19.3	28.9#
59	23.6	13.9	20.9#

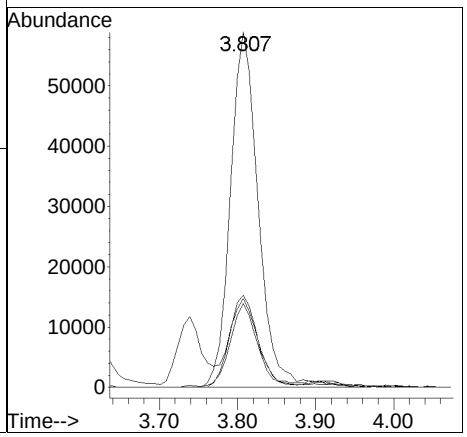


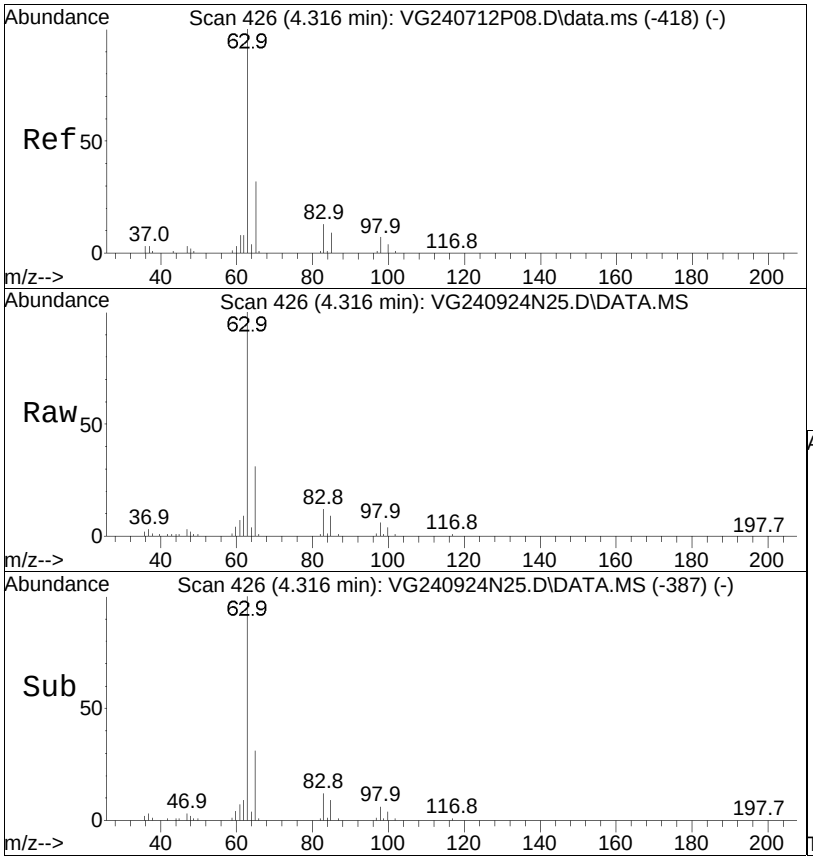


#20
Methyl tert-butyl ether
Concen: 8.66 ug/L
RT: 3.807 min Scan# 359
Delta R.T. -0.008 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 73 Resp: 148119

Ion	Ratio	Lower	Upper
73	100		
57	22.9	12.5	26.1
43	26.2	13.0	27.0
41	26.0	12.5	26.1

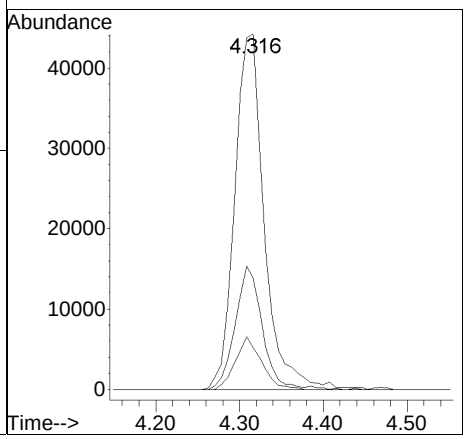


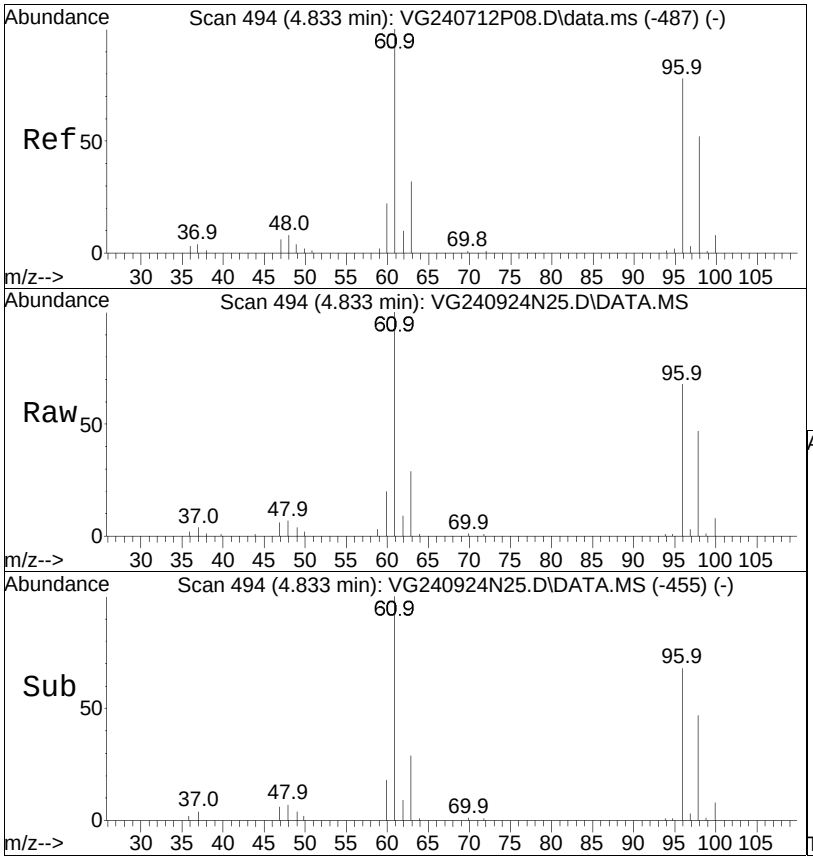


#23
1,1-Dichloroethane
Concen: 10.76 ug/L
RT: 4.316 min Scan# 426
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 63 Resp: 108382

Ion	Ratio	Lower	Upper
63	100		
65	31.8	10.4	50.4
83	13.0	0.0	33.2

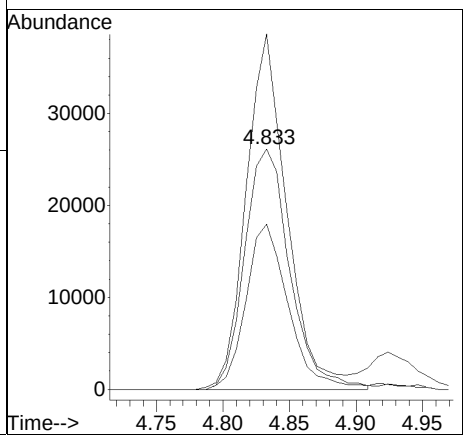


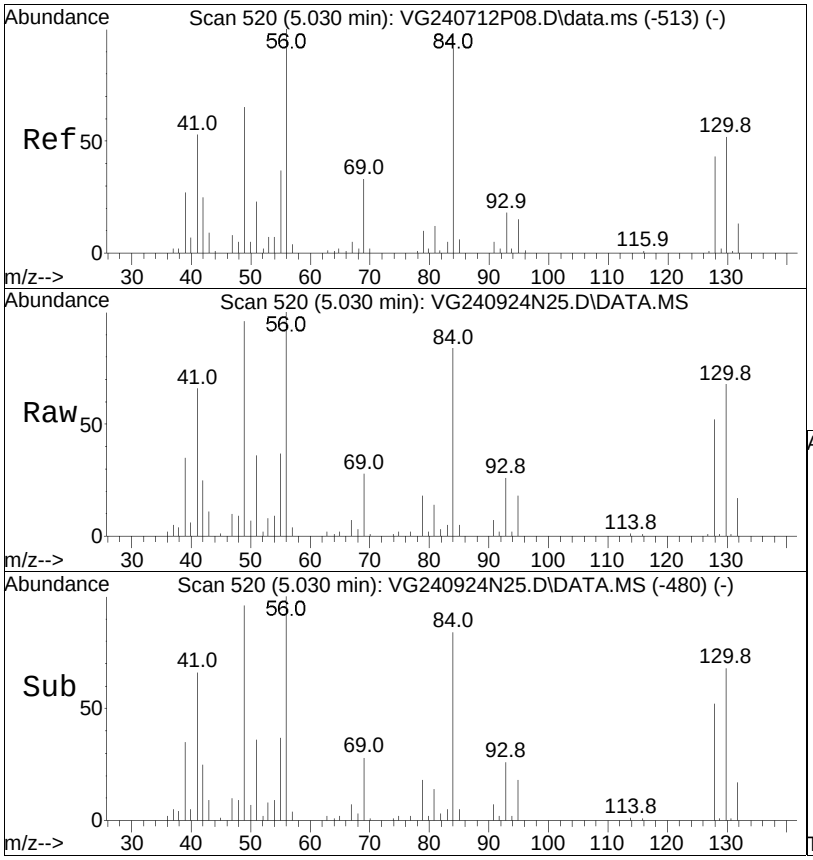


#28
cis-1,2-Dichloroethene
Concen: 9.68 ug/L
RT: 4.833 min Scan# 494
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 96 Resp: 61870

Ion	Ratio	Lower	Upper
96	100		
61	132.6	96.6	144.8
98	64.9	51.3	76.9

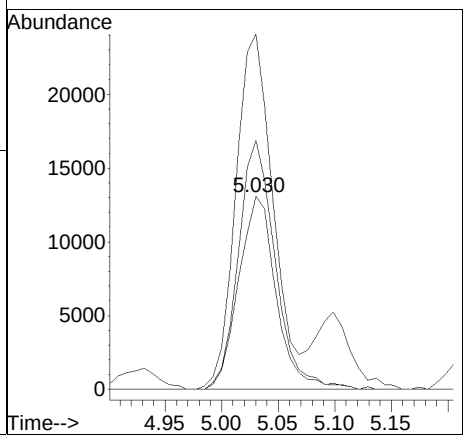


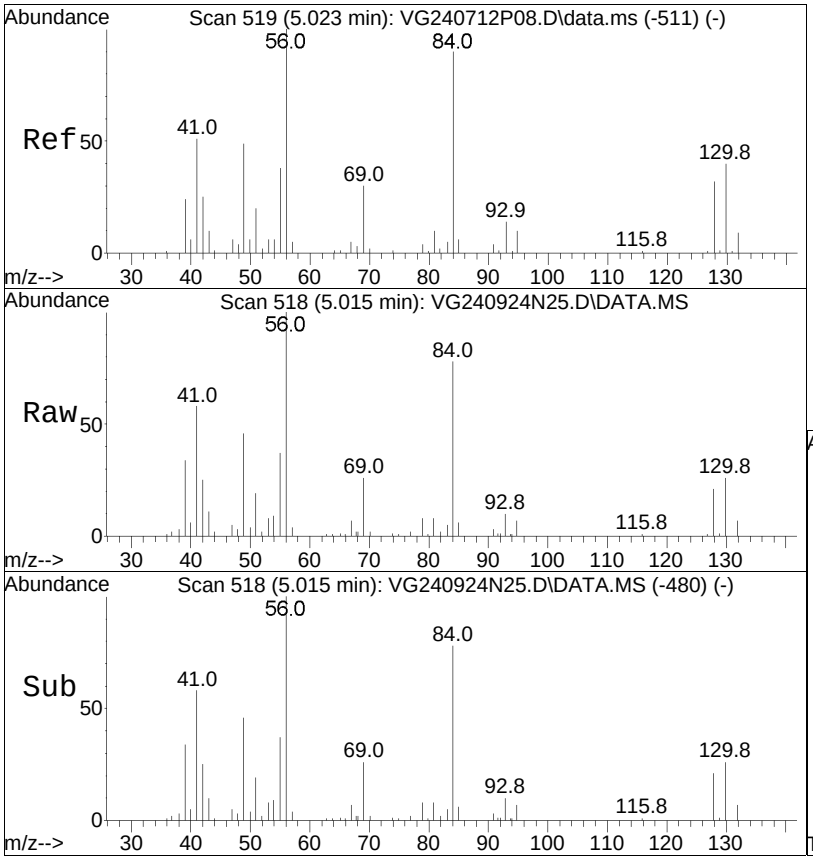


#30
Bromochloromethane
Concen: 9.70 ug/L
RT: 5.030 min Scan# 520
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:128 Resp: 30334

Ion	Ratio	Lower	Upper
128	100		
49	180.6	112.7	169.1#
130	126.5	103.3	154.9

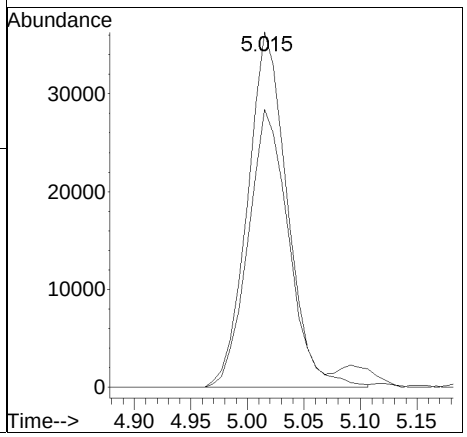


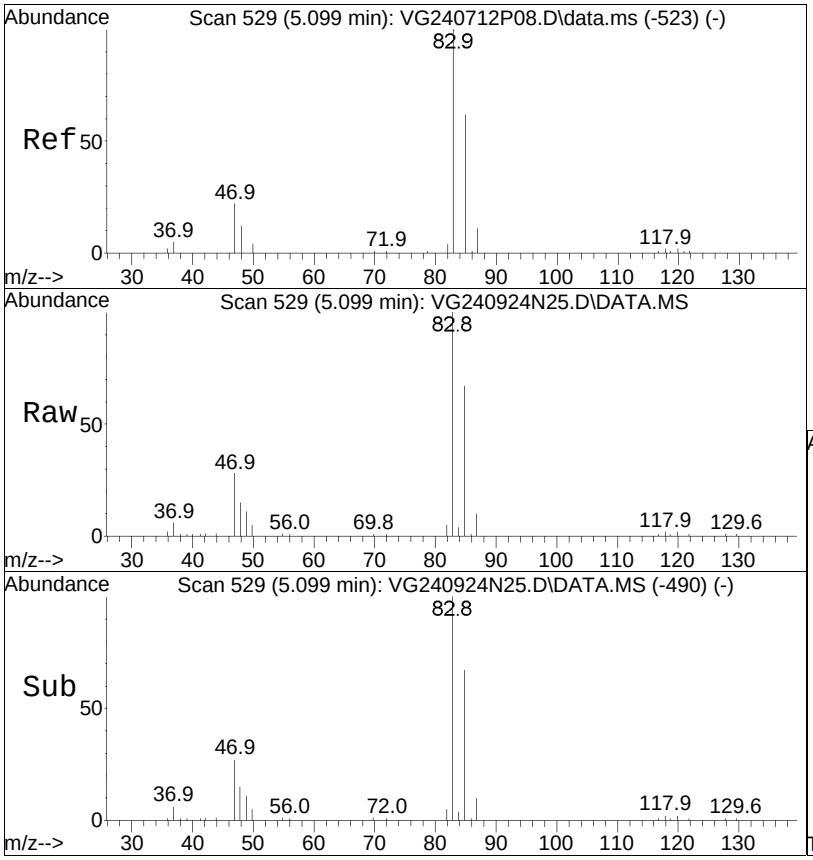


#31
Cyclohexane
Concen: 9.31 ug/L
RT: 5.015 min Scan# 518
Delta R.T. -0.008 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 56 Resp: 88955

Ion	Ratio	Lower	Upper
56	100		
84	78.9	63.8	132.4

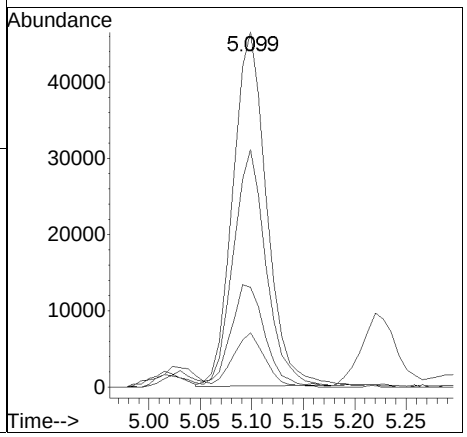


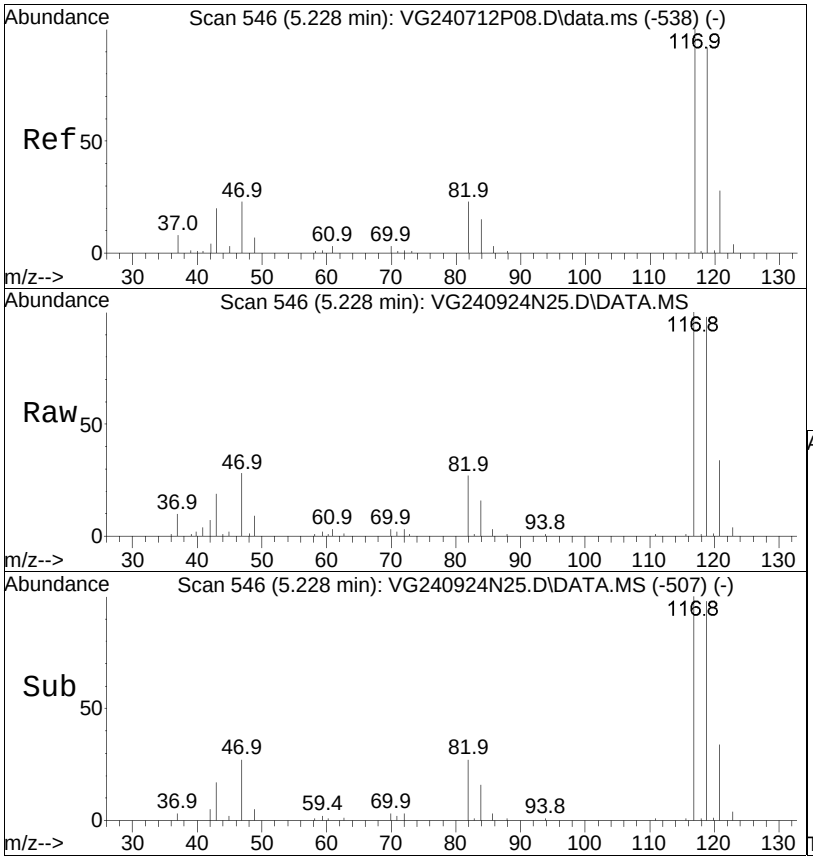


#32
Chloroform
Concen: 10.29 ug/L
RT: 5.099 min Scan# 529
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 83 Resp: 106079

Ion	Ratio	Lower	Upper
83	100		
85	65.0	41.4	86.0
47	29.8	15.1	31.3
48	14.7	7.7	16.1

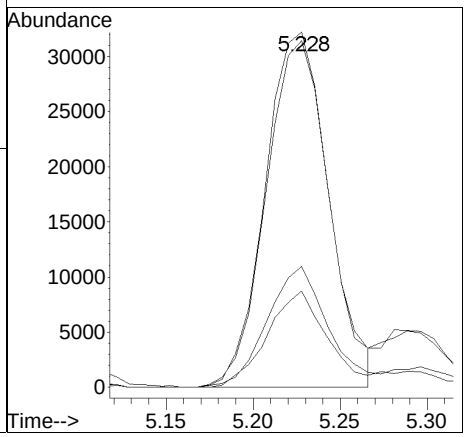


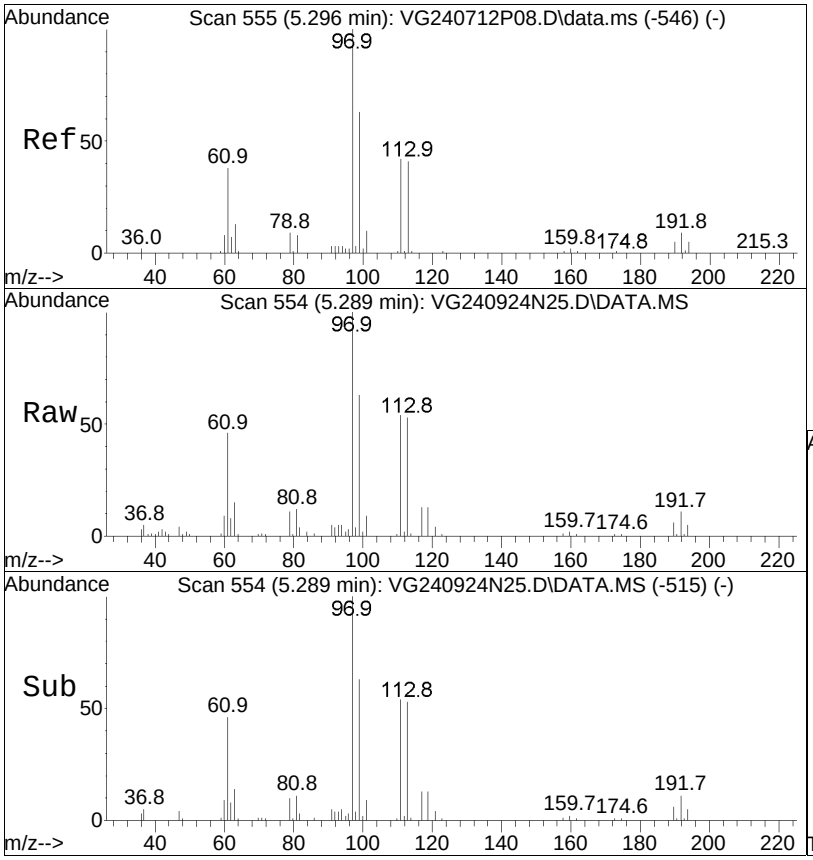


#34
Carbon tetrachloride
Concen: 9.79 ug/L
RT: 5.228 min Scan# 546
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:117 Resp: 81798

Ion	Ratio	Lower	Upper
117	100		
119	98.7	63.2	131.2
121	33.1	20.4	42.4
82	25.6	15.4	32.0

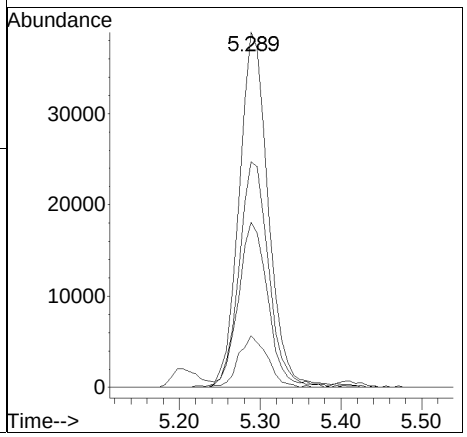


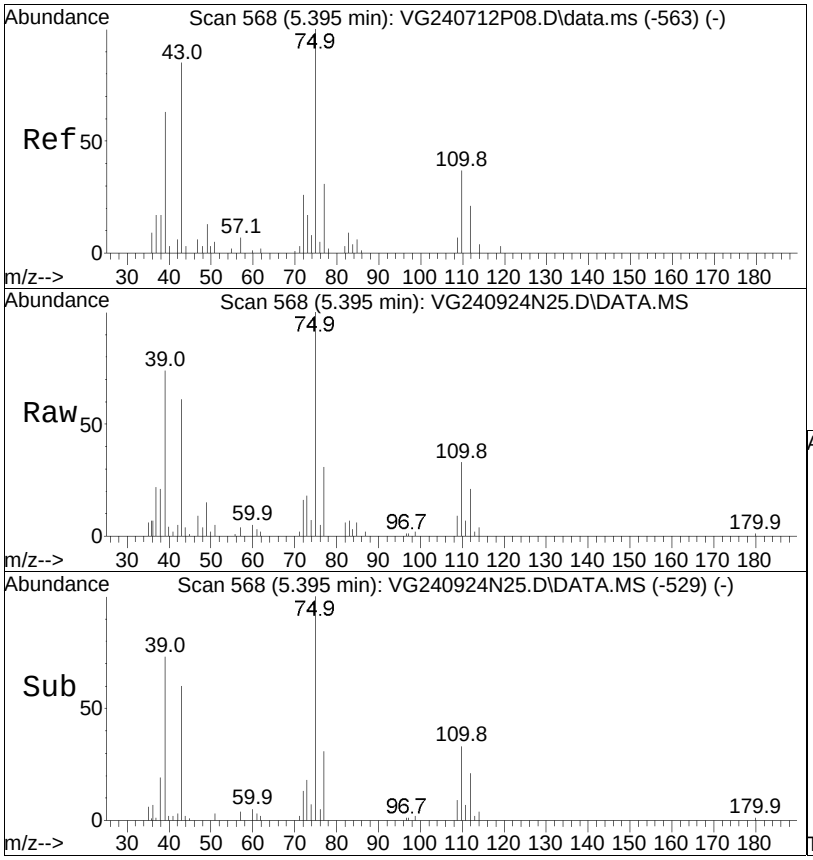


#37
1,1,1-Trichloroethane
Concen: 10.34 ug/L
RT: 5.289 min Scan# 554
Delta R.T. -0.007 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 97 Resp: 98295

Ion	Ratio	Lower	Upper
97	100		
99	64.2	41.3	85.7
61	47.1	26.0	54.0
63	14.5	8.6	18.0

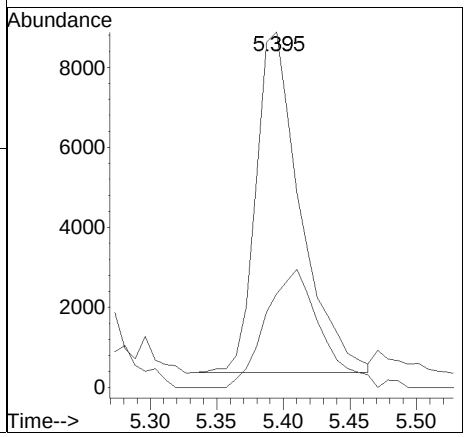


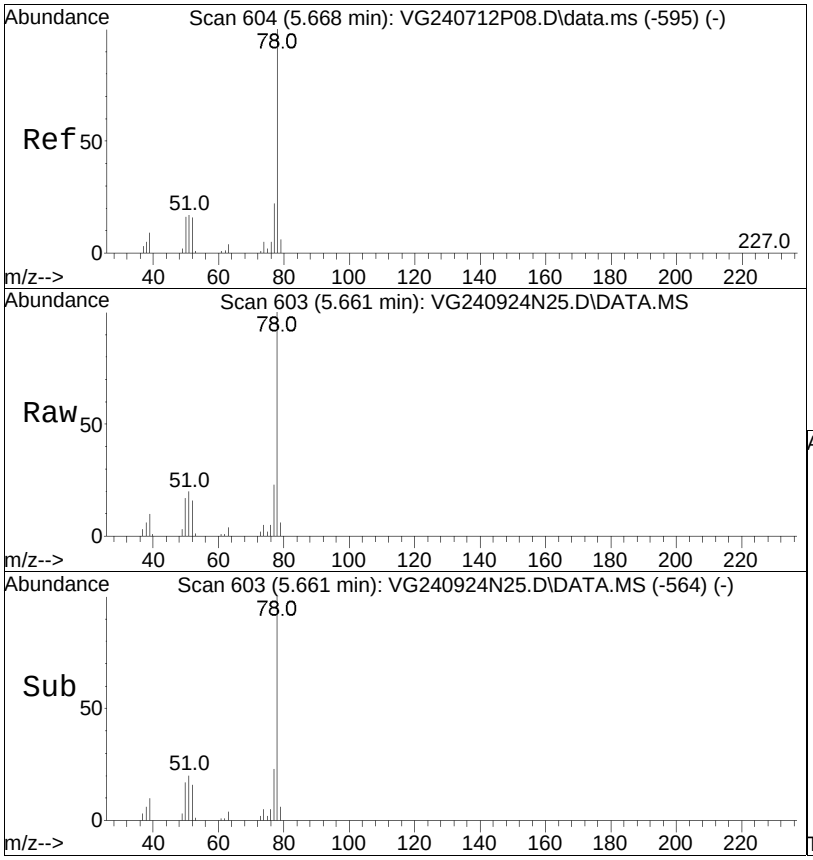


#39
2-Butanone
Concen: 10.14 ug/L
RT: 5.395 min Scan# 568
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 43 Resp: 19757

Ion	Ratio	Lower	Upper
43	100		
72	43.6	42.6	63.8

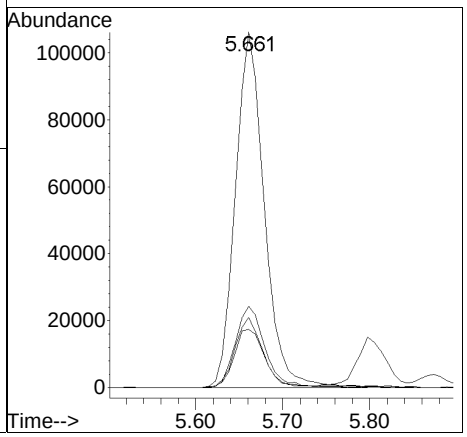


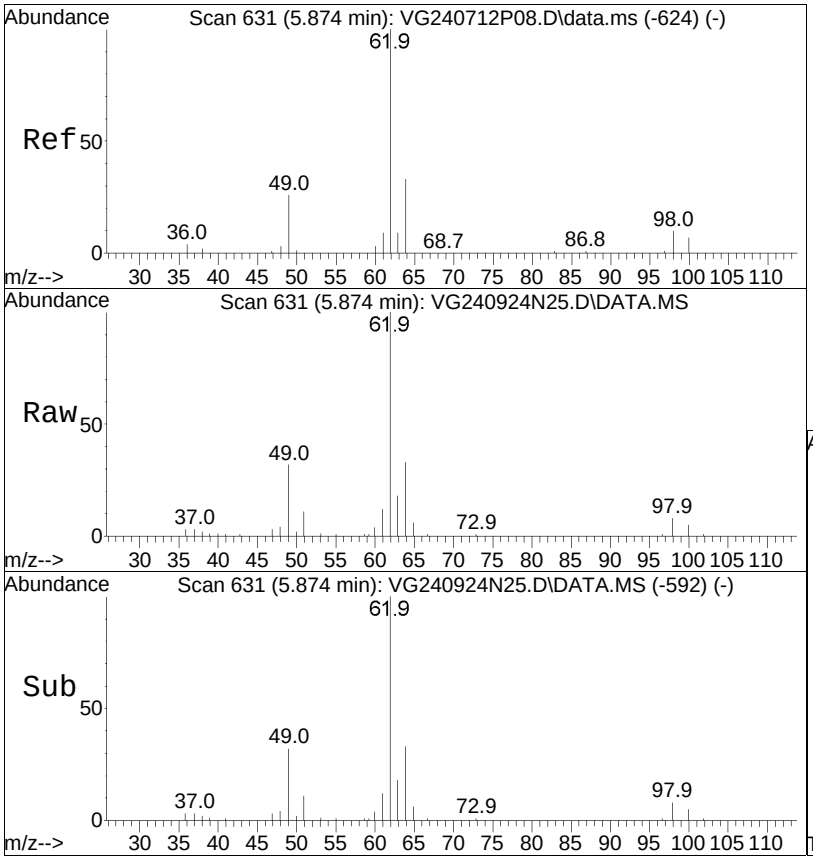


#41
Benzene
Concen: 10.66 ug/L
RT: 5.661 min Scan# 603
Delta R.T. -0.007 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 78 Resp: 245543

Ion	Ratio	Lower	Upper
78	100		
77	23.3	15.5	32.1
51	19.1	9.9	20.7
52	17.2	9.2	19.2

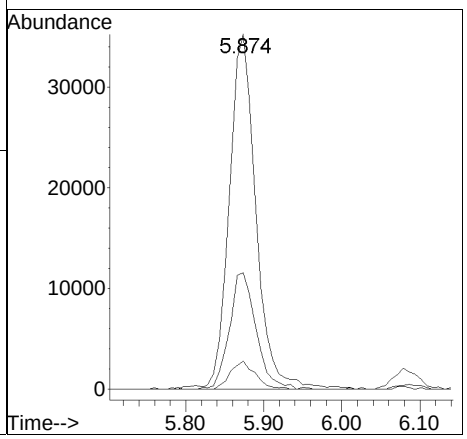


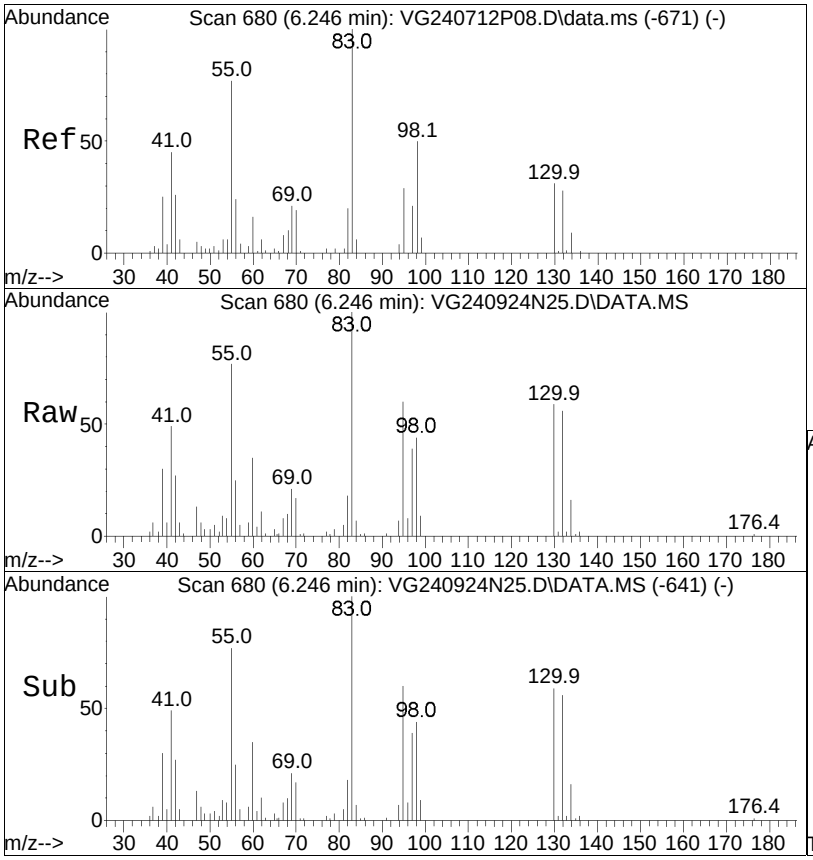


#44
1,2-Dichloroethane
Concen: 11.46 ug/L
RT: 5.874 min Scan# 631
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 62 Resp: 84096

Ion	Ratio	Lower	Upper
62	100		
64	32.8	11.9	51.9
98	7.6	0.0	29.3

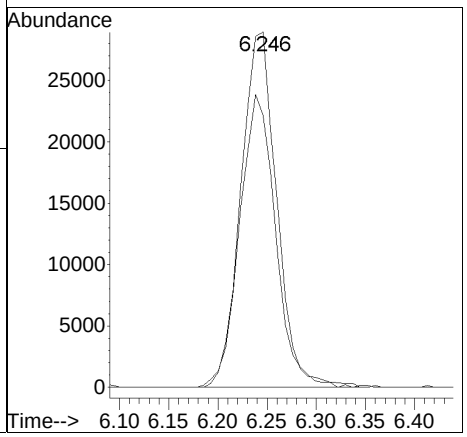


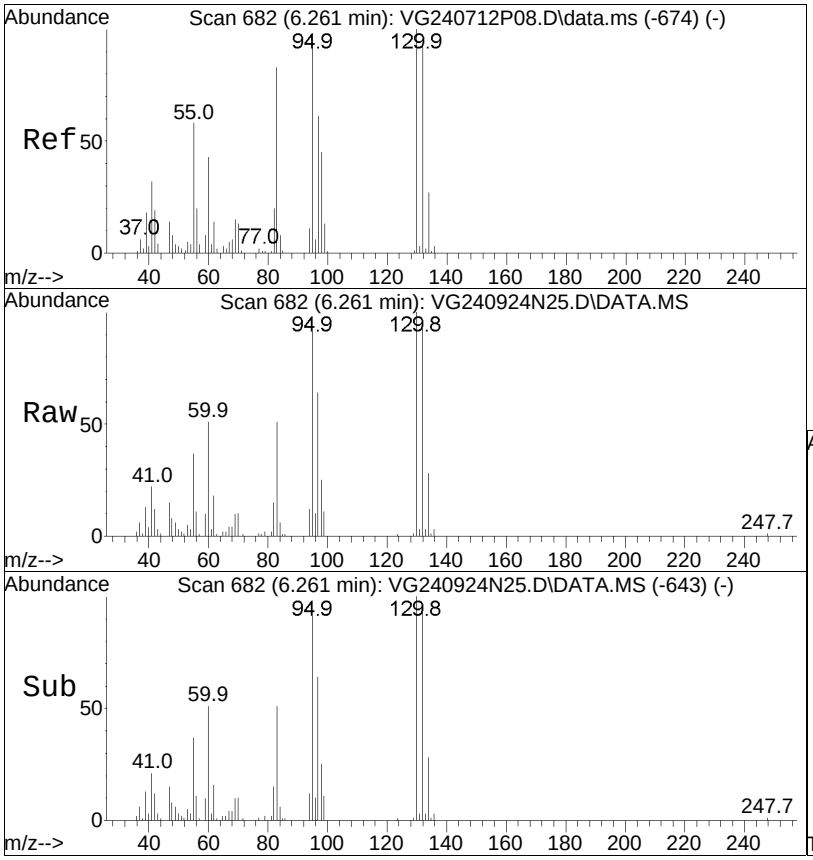


#47
Methyl cyclohexane
Concen: 8.22 ug/L
RT: 6.246 min Scan# 680
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 83 Resp: 73526

Ion	Ratio	Lower	Upper
83	100		
55	82.6	56.0	84.0

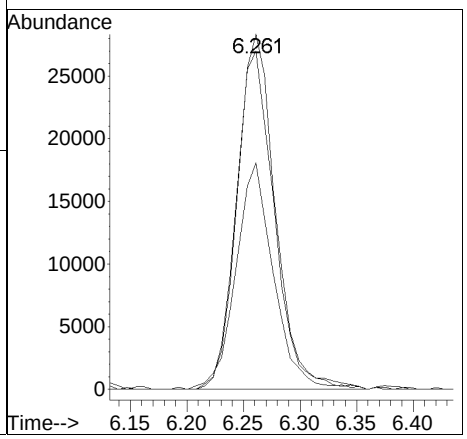


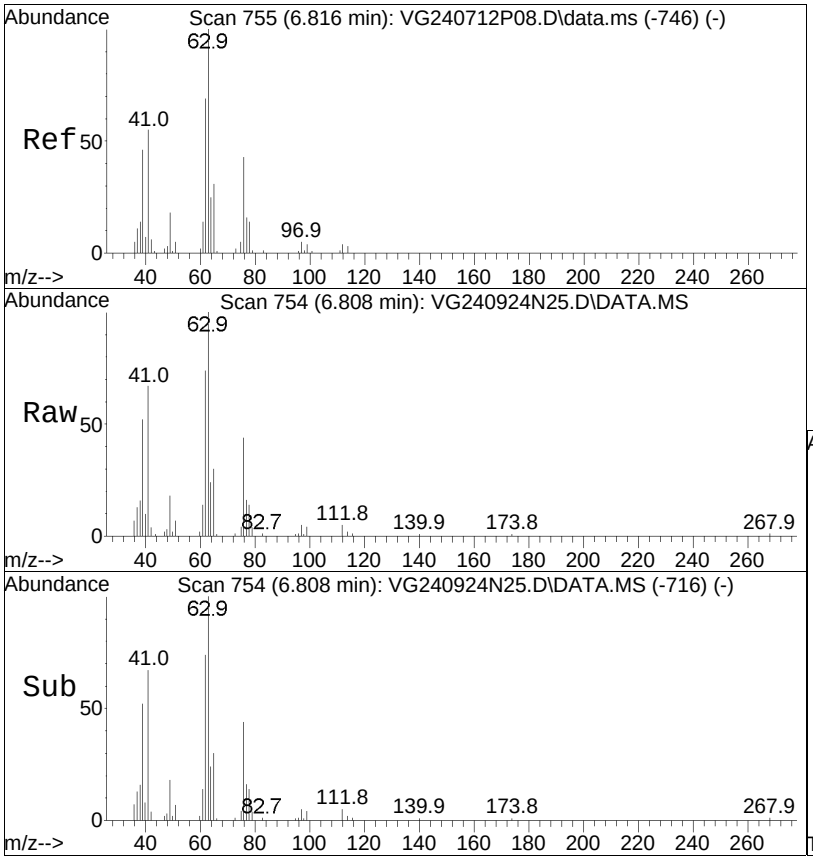


#48
Trichloroethene
Concen: 9.82 ug/L
RT: 6.261 min Scan# 682
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 95 Resp: 63760

Ion	Ratio	Lower	Upper
95	100		
97	66.0	54.0	81.0
130	104.2	85.0	127.4

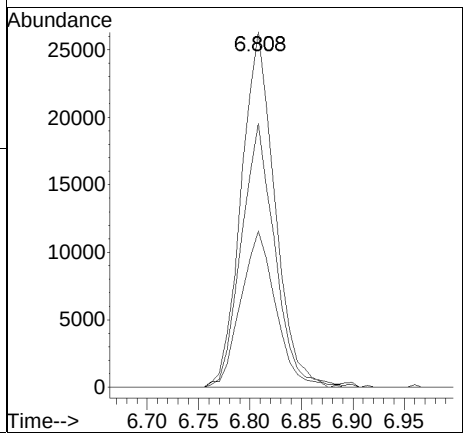


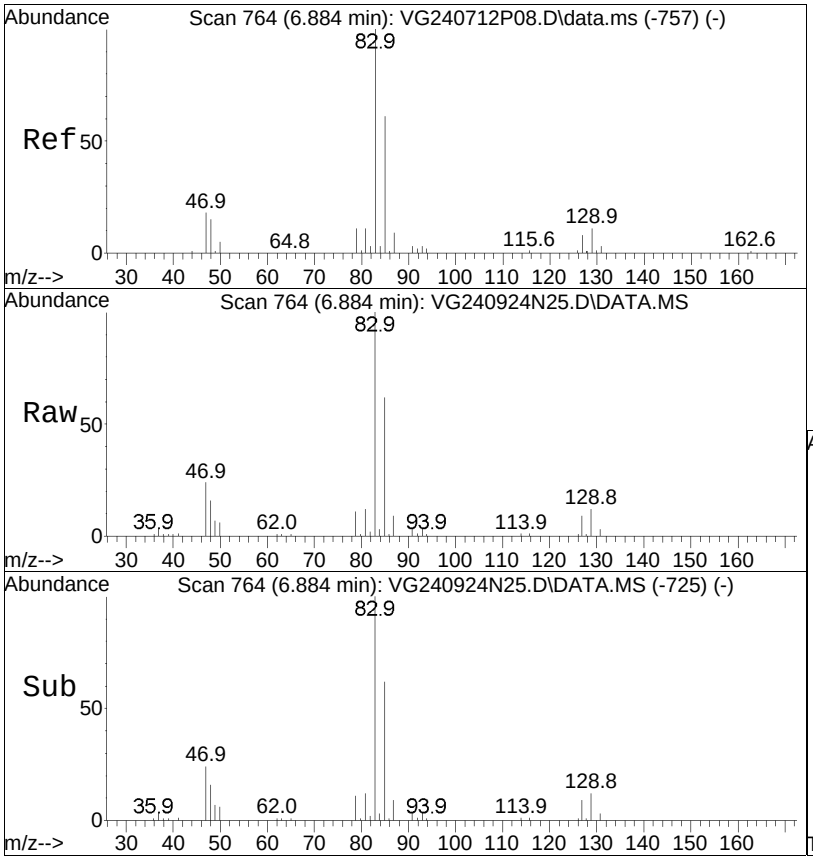


#51
1,2-Dichloropropane
Concen: 10.75 ug/L
RT: 6.808 min Scan# 754
Delta R.T. -0.008 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 63 Resp: 60402

Ion	Ratio	Lower	Upper
63	100		
62	73.4	56.5	84.7
76	45.4	34.6	52.0

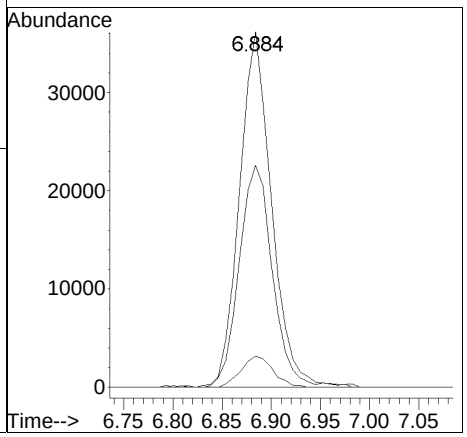


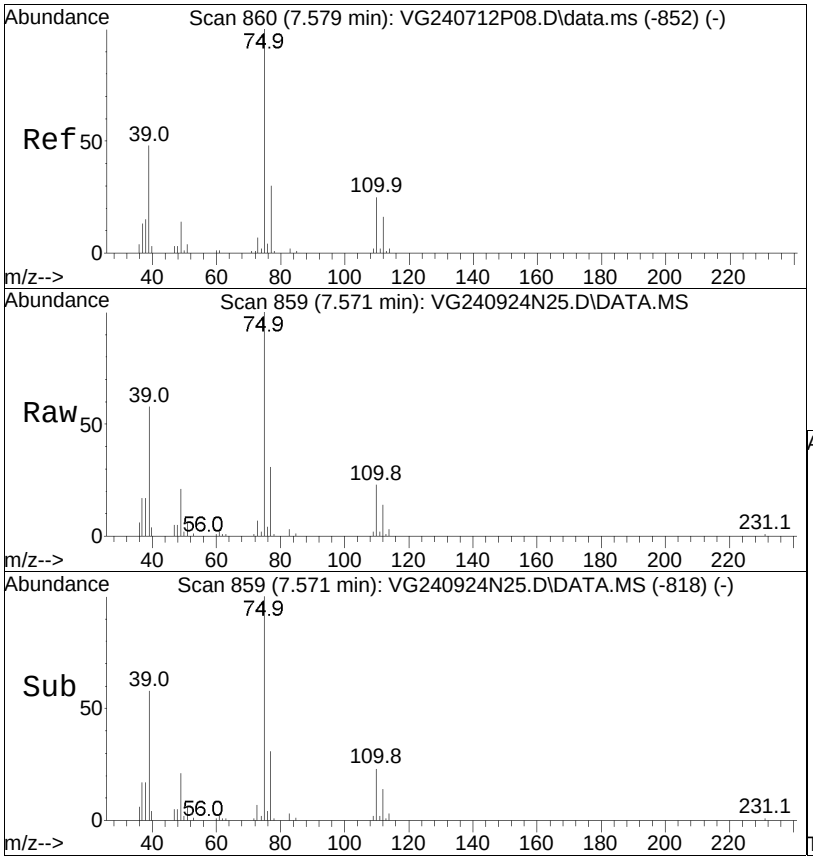


#54
Bromodichloromethane
Concen: 10.04 ug/L
RT: 6.884 min Scan# 764
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 83 Resp: 82293

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.8	76.2
127	8.9	7.4	11.2

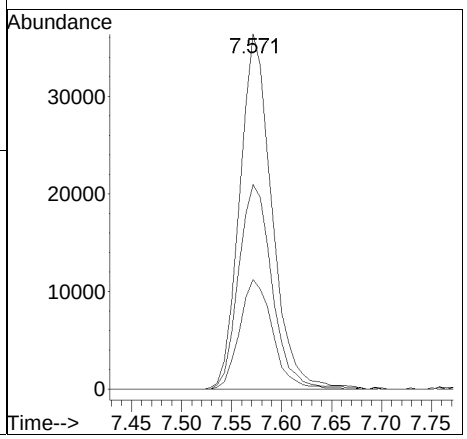


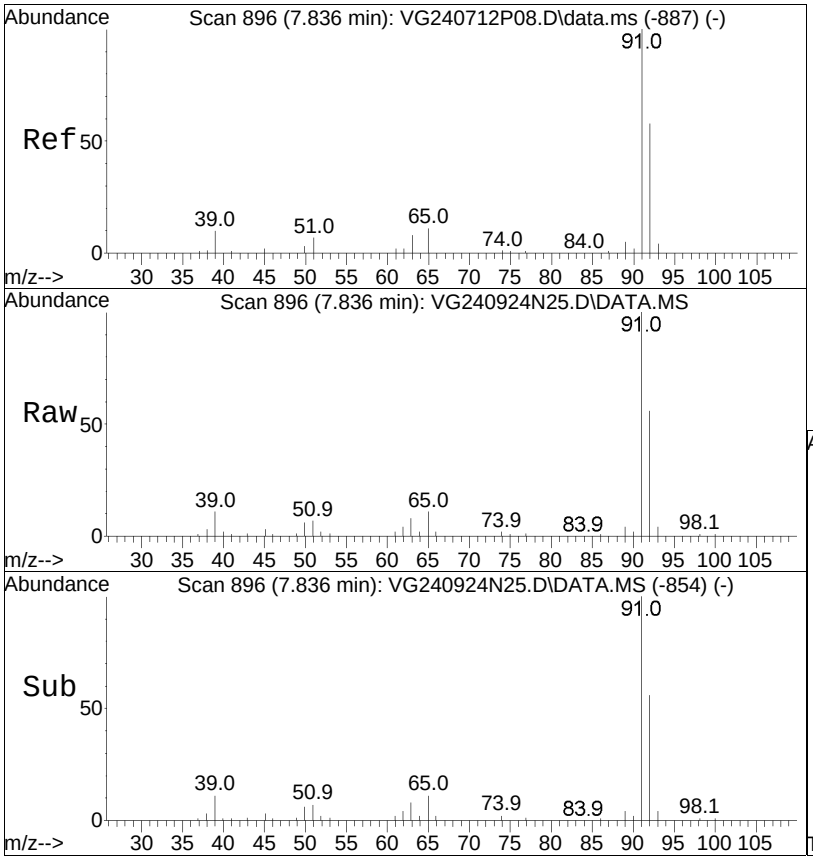


#58
cis-1,3-Dichloropropene
Concen: 8.92 ug/L
RT: 7.571 min Scan# 859
Delta R.T. -0.008 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 75 Resp: 81821

Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.6	36.8
39	60.2	40.8	61.2

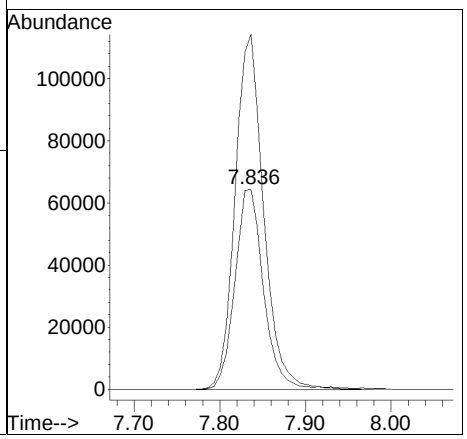


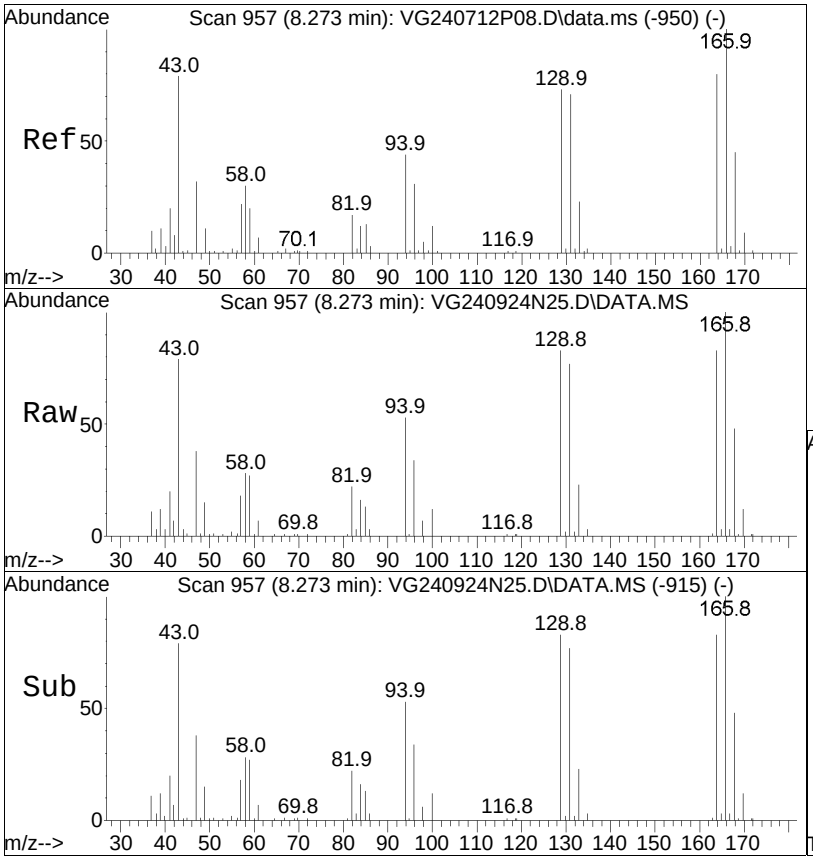


#61
Toluene
Concen: 10.58 ug/L
RT: 7.836 min Scan# 896
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 92 Resp: 149564

Ion	Ratio	Lower	Upper
92	100		
91	176.6	134.8	202.2

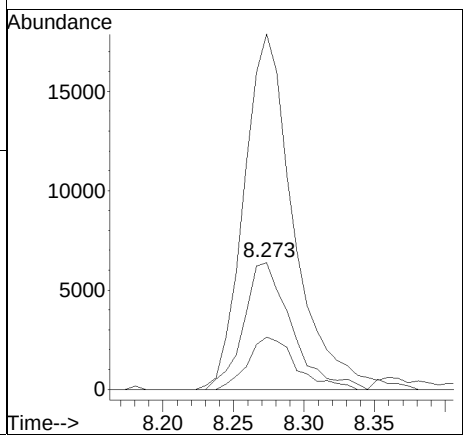


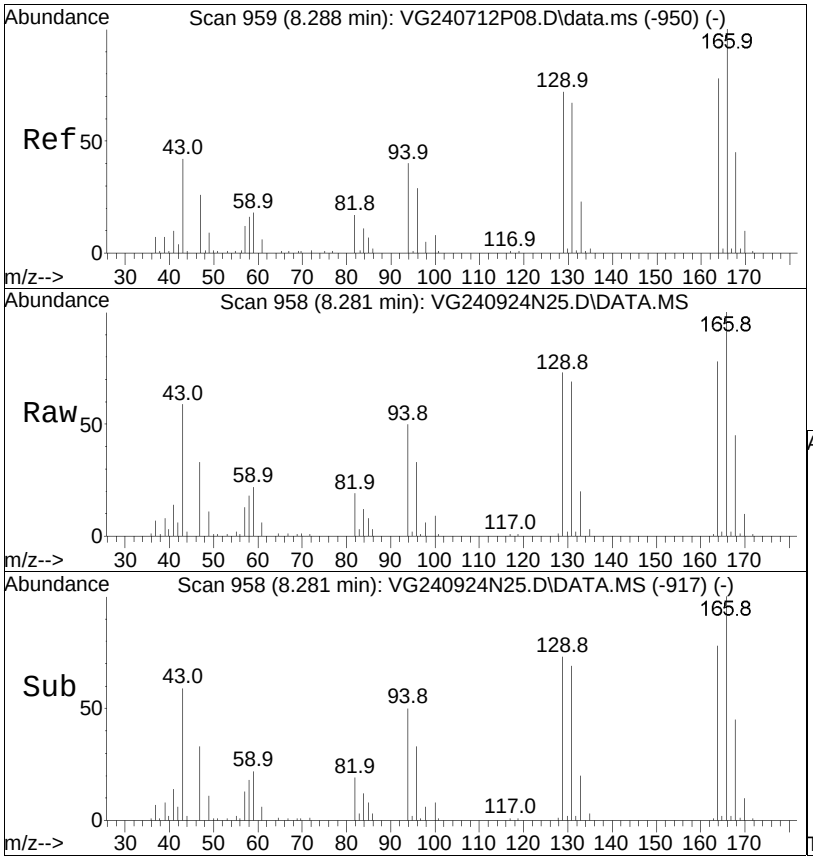


#62
4-Methyl-2-pentanone
Concen: 9.68 ug/L
RT: 8.273 min Scan# 957
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 58 Resp: 15092

Ion	Ratio	Lower	Upper
58	100		
100	41.7	33.6	50.4
43	289.9	204.3	306.5

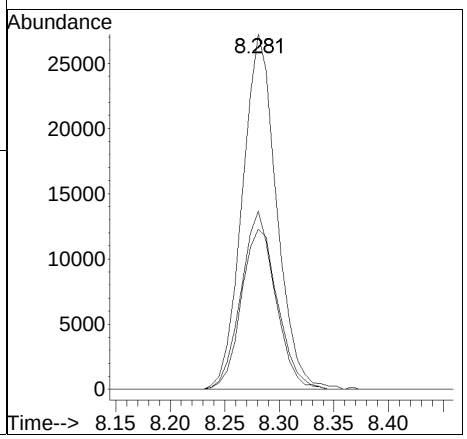


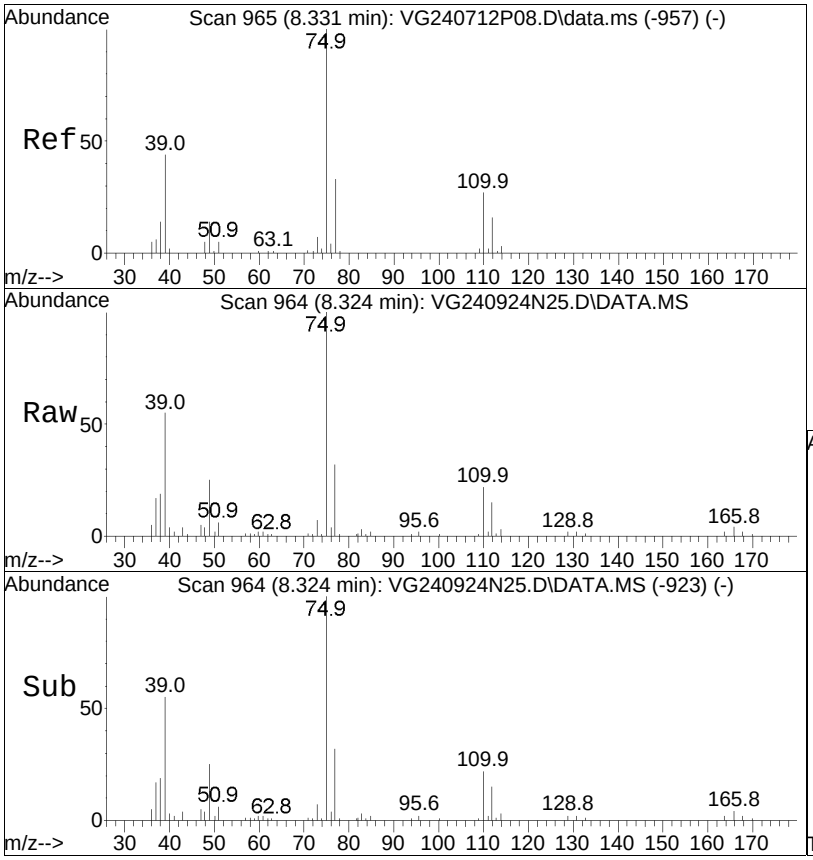


#63
Tetrachloroethene
Concen: 9.61 ug/L
RT: 8.281 min Scan# 958
Delta R.T. -0.007 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:166 Resp: 59657

Ion	Ratio	Lower	Upper
166	100		
168	48.1	27.3	67.3
94	49.8	20.5	60.5

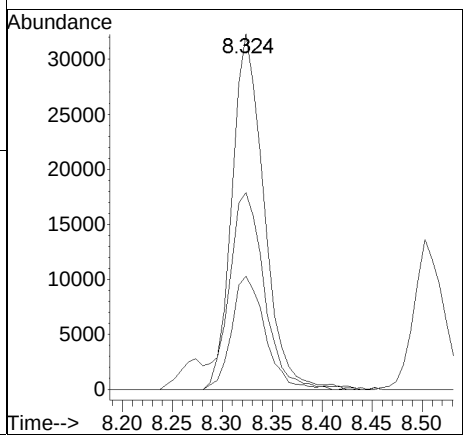


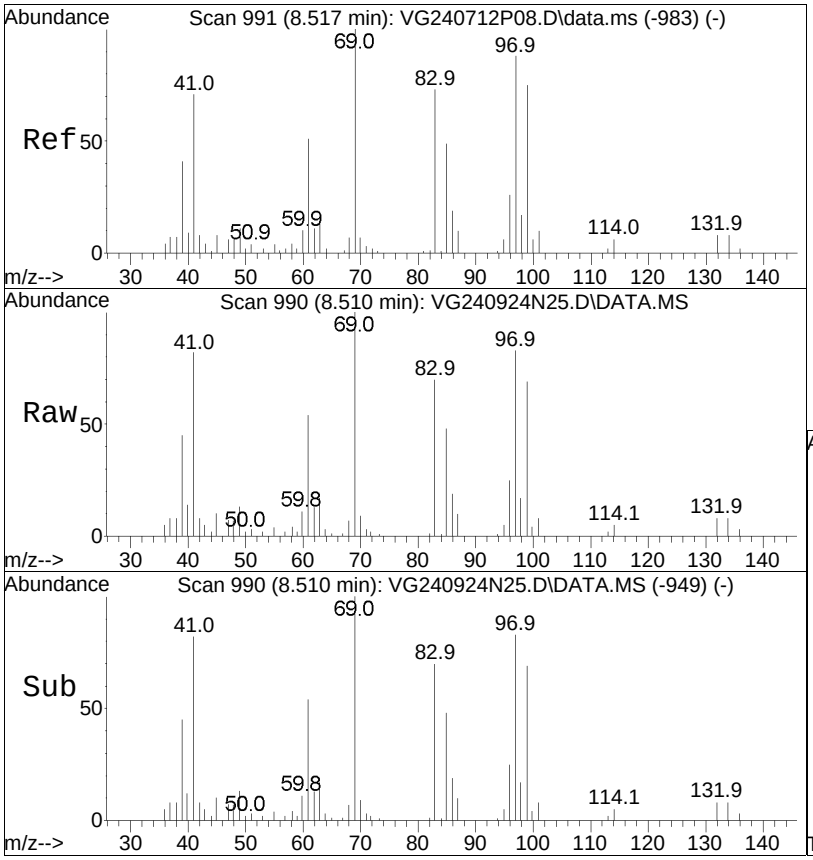


#65
trans-1,3-Dichloropropene
Concen: 9.32 ug/L
RT: 8.324 min Scan# 964
Delta R.T. -0.007 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 75 Resp: 72162

Ion	Ratio	Lower	Upper
75	100		
77	33.3	11.3	51.3
39	61.0	36.0	76.0

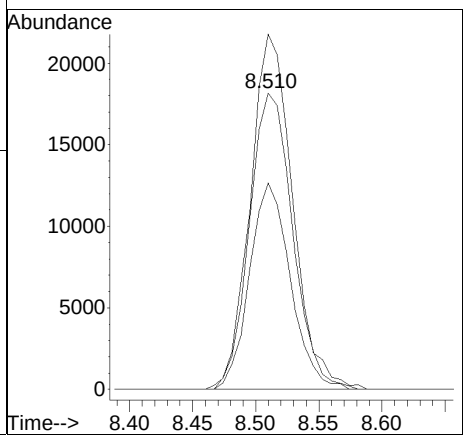


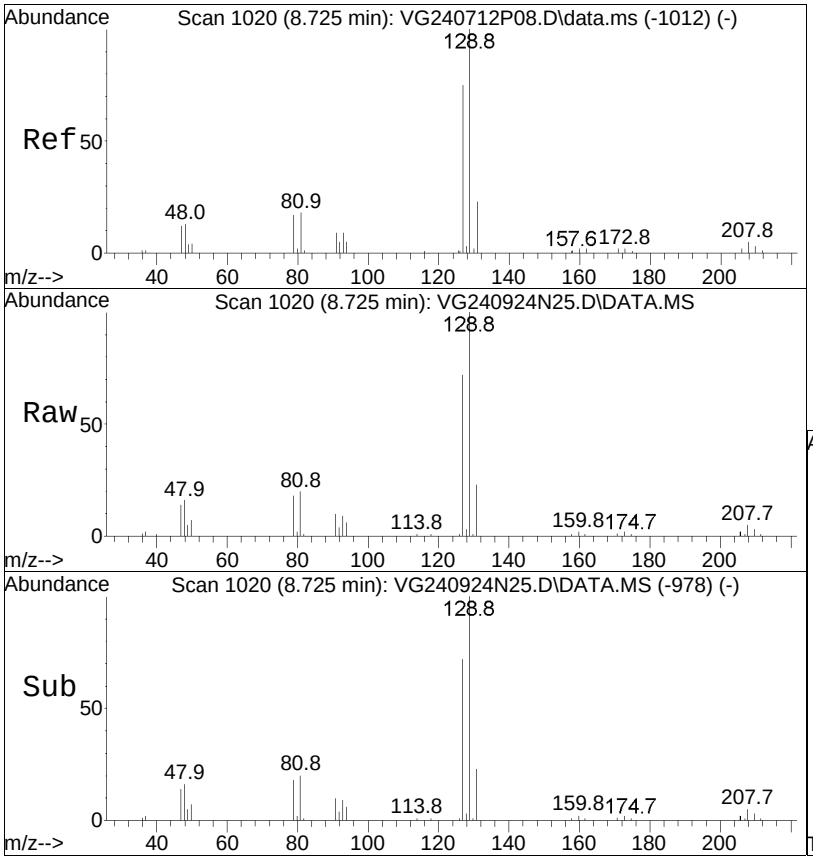


#68
1,1,2-Trichloroethane
Concen: 11.19 ug/L
RT: 8.510 min Scan# 990
Delta R.T. -0.007 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 83 Resp: 43408

Ion	Ratio	Lower	Upper
83	100		
97	117.2	101.0	141.0
85	65.8	47.9	87.9

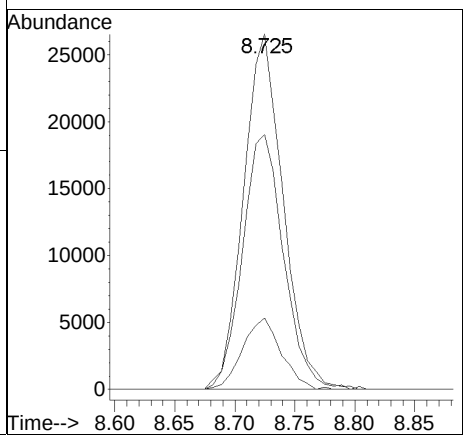


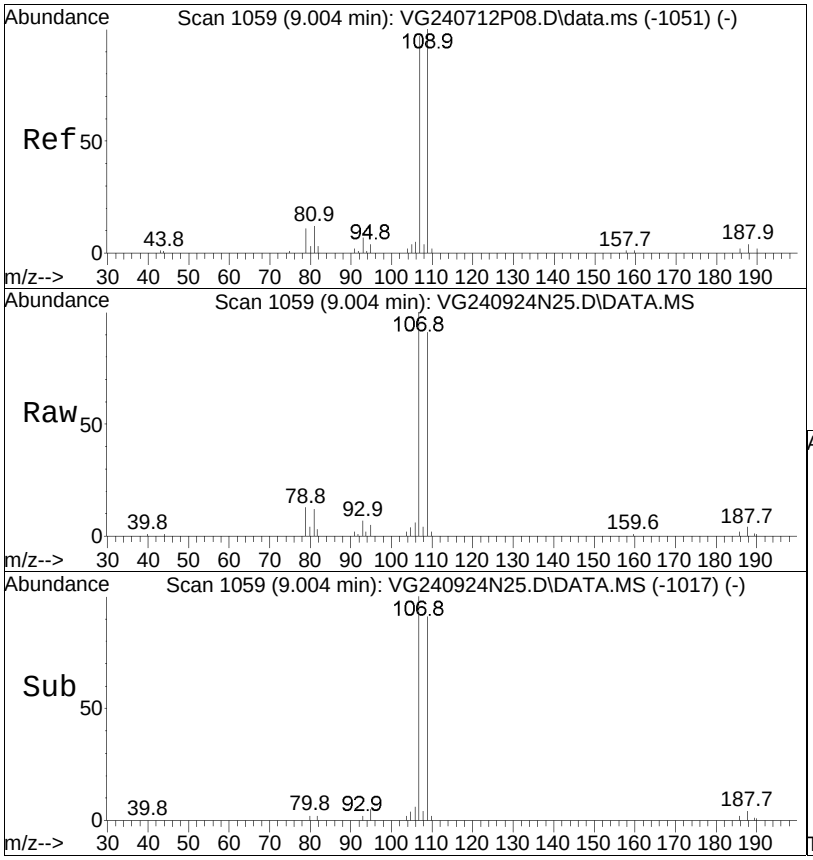


#69
Chlorodibromomethane
Concen: 9.94 ug/L
RT: 8.725 min Scan# 1020
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:129 Resp: 60959

Ion	Ratio	Lower	Upper
129	100		
81	19.7	0.0	35.0
127	74.4	57.1	97.1

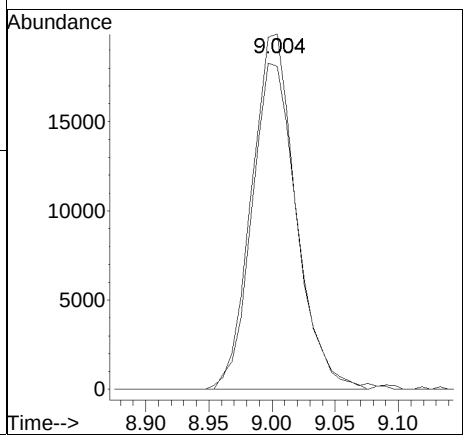


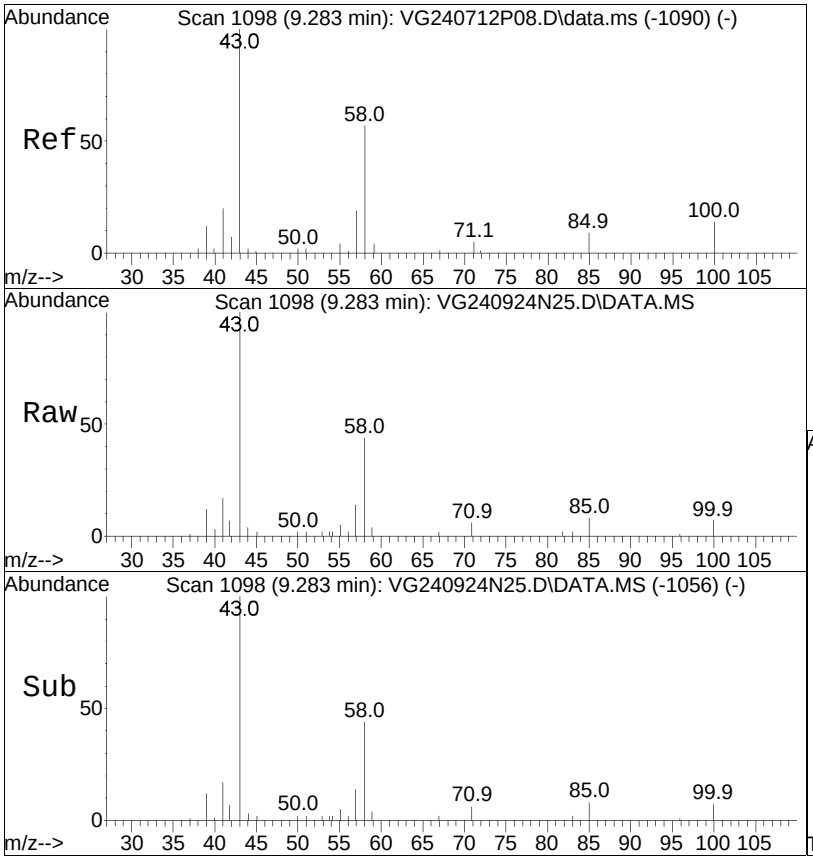


#71
1,2-Dibromoethane
Concen: 9.88 ug/L
RT: 9.004 min Scan# 1059
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:107 Resp: 48648

Ion	Ratio	Lower	Upper
107	100		
109	94.0	76.0	114.0

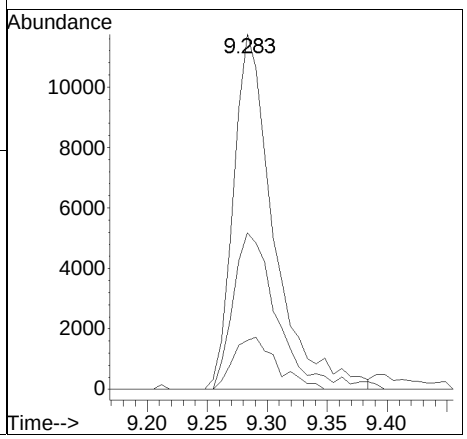


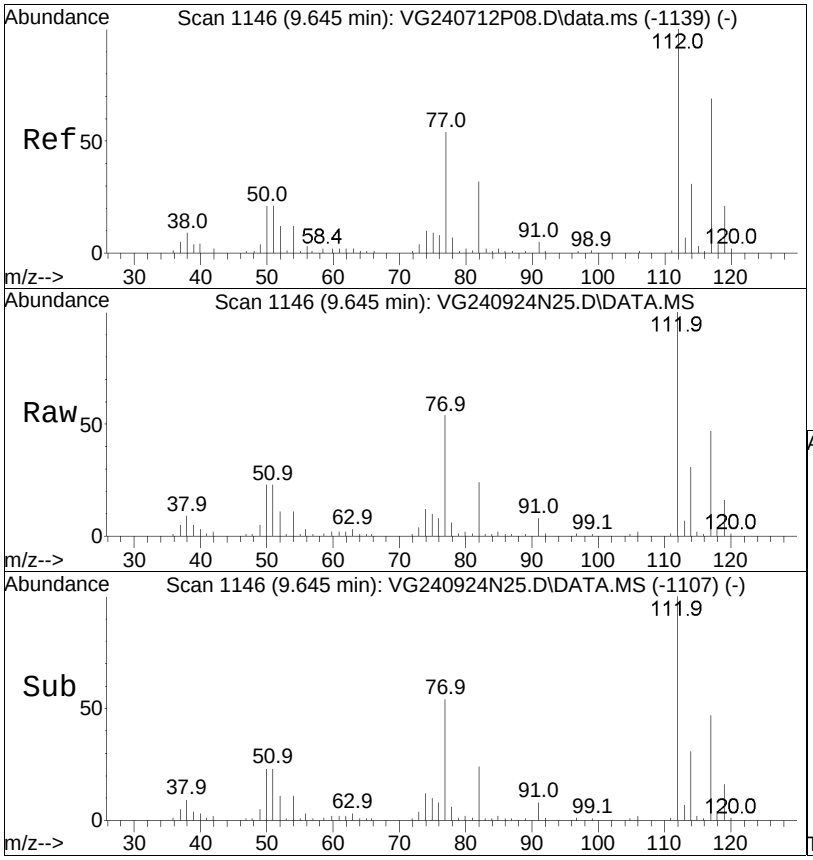


#72
2-Hexanone
Concen: 9.52 ug/L
RT: 9.283 min Scan# 1098
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 43 Resp: 27520

Ion	Ratio	Lower	Upper
43	100		
58	48.9	43.8	65.6
57	15.8	15.2	22.8

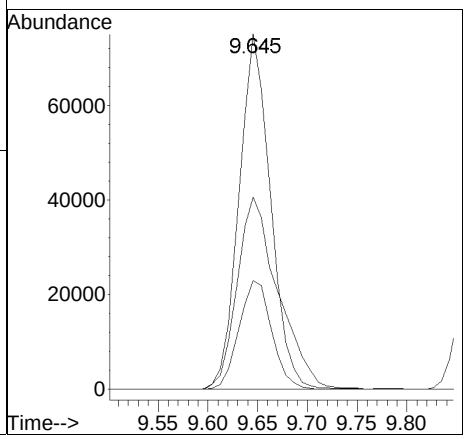


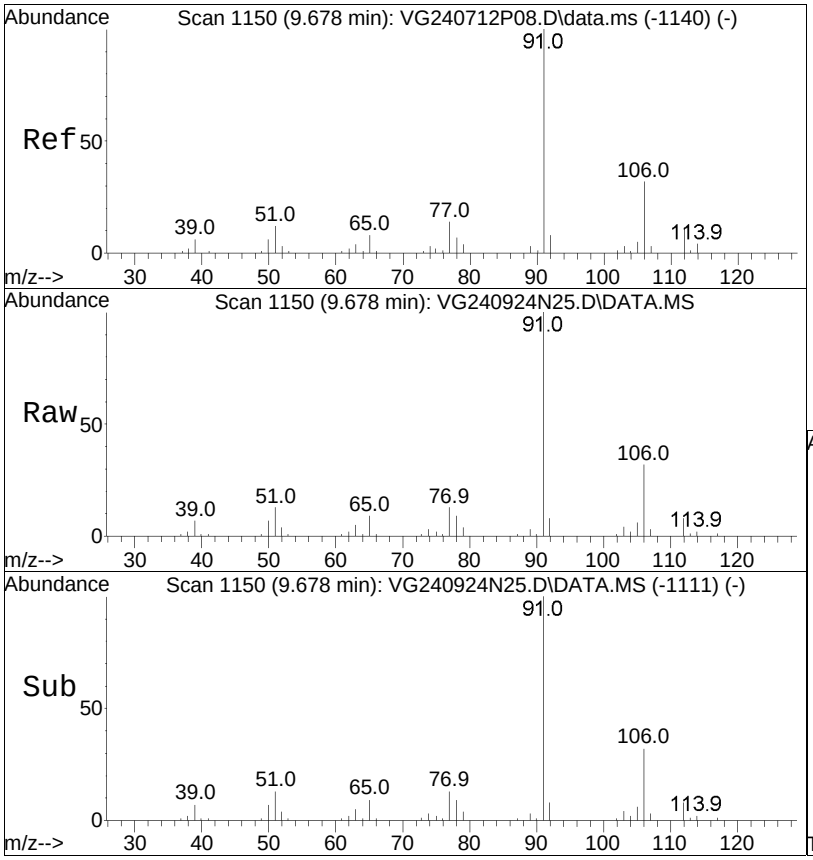


#73
Chlorobenzene
Concen: 10.50 ug/L
RT: 9.645 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:112 Resp: 165512

Ion	Ratio	Lower	Upper
112	100		
77	70.5	55.9	83.9
114	31.8	25.4	38.0

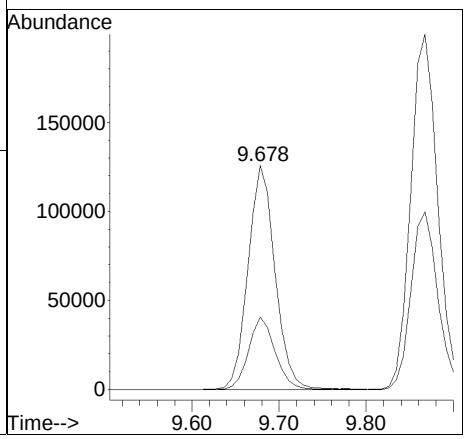


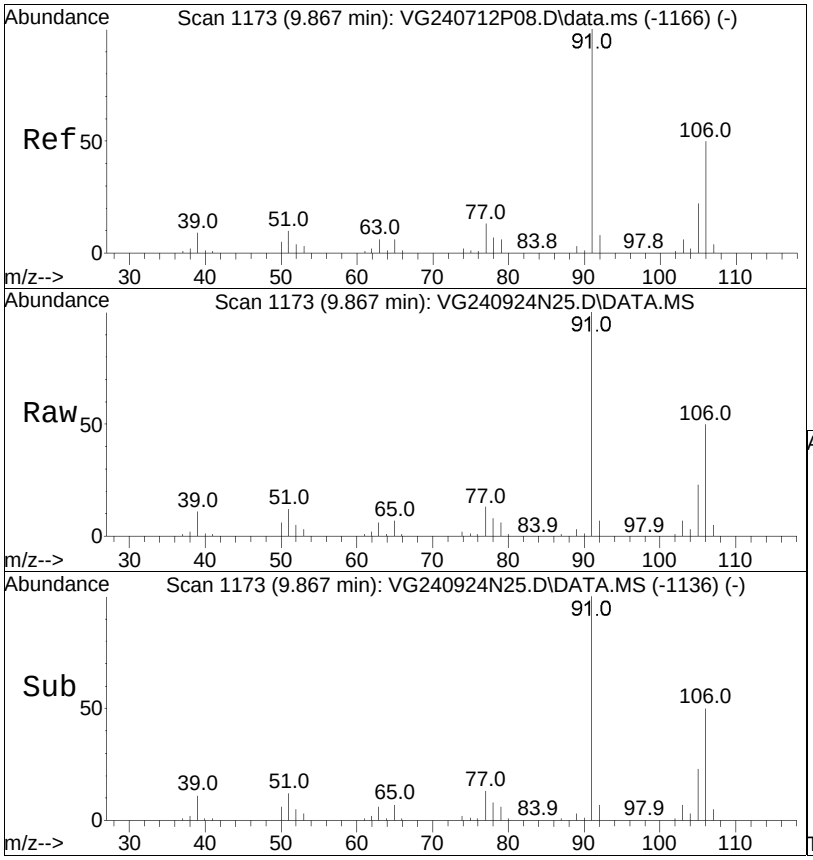


#74
Ethylbenzene
Concen: 10.06 ug/L
RT: 9.678 min Scan# 1150
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 91 Resp: 271741

Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.3	37.9

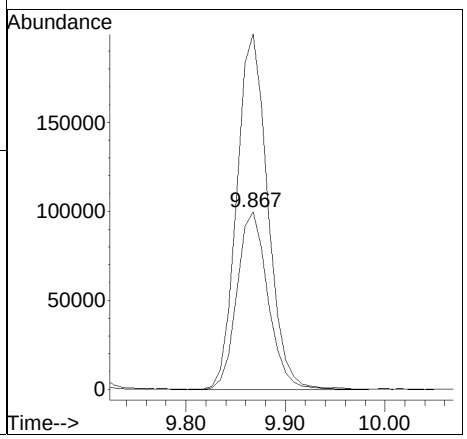


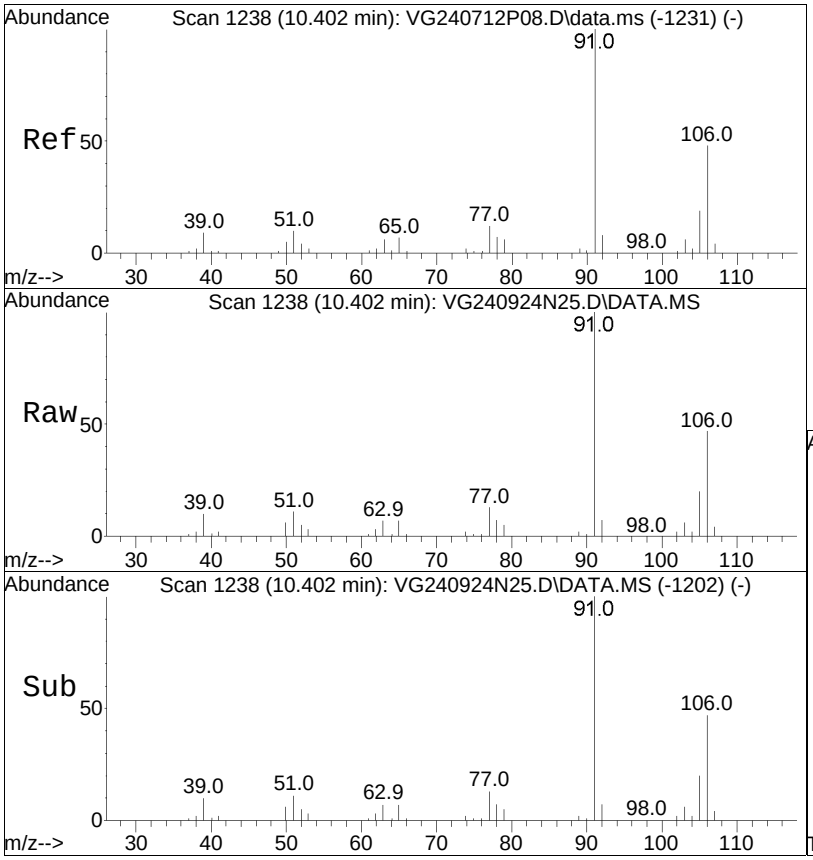


#76
p/m Xylene
Concen: 20.21 ug/L
RT: 9.867 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:106 Resp: 215788

Ion	Ratio	Lower	Upper
106	100		
91	200.5	157.1	235.7

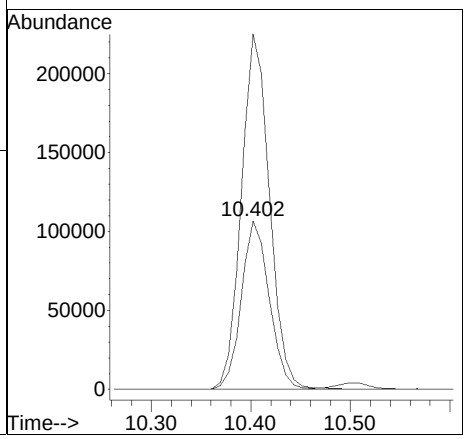


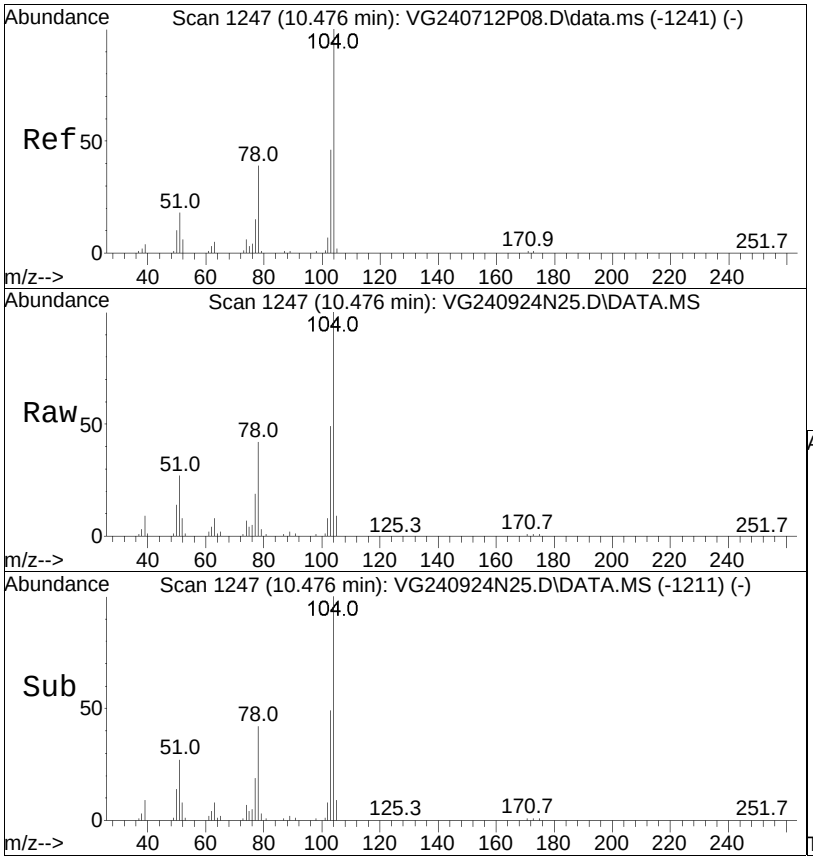


#77
o Xylene
Concen: 20.26 ug/L
RT: 10.402 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:106 Resp: 209488

Ion	Ratio	Lower	Upper
106	100		
91	210.8	164.7	247.1

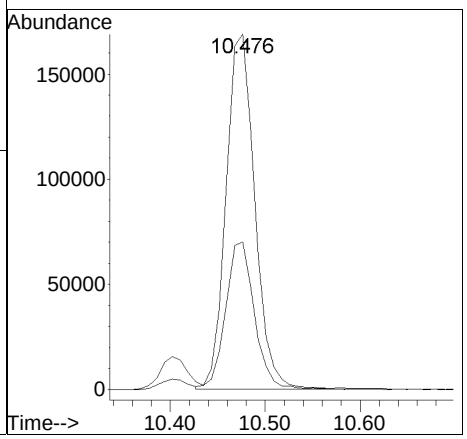


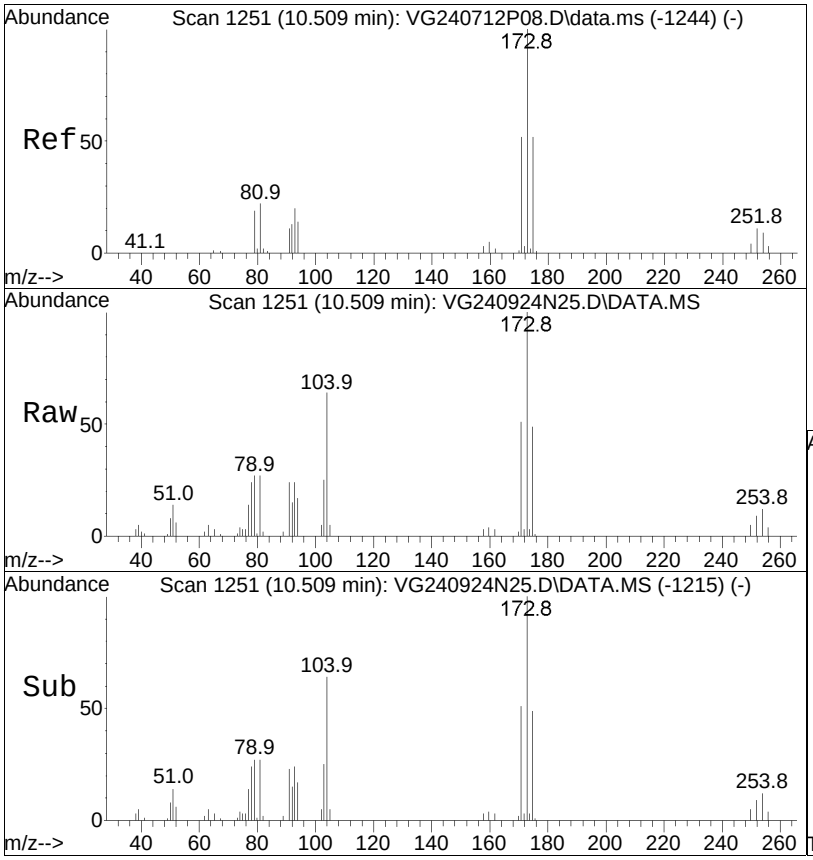


#78
Styrene
Concen: 20.26 ug/L
RT: 10.476 min Scan# 1247
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:104 Resp: 354999

Ion	Ratio	Lower	Upper
104	100		
78	41.5	32.2	48.4

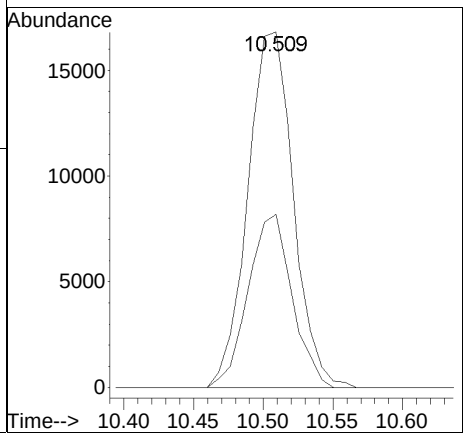


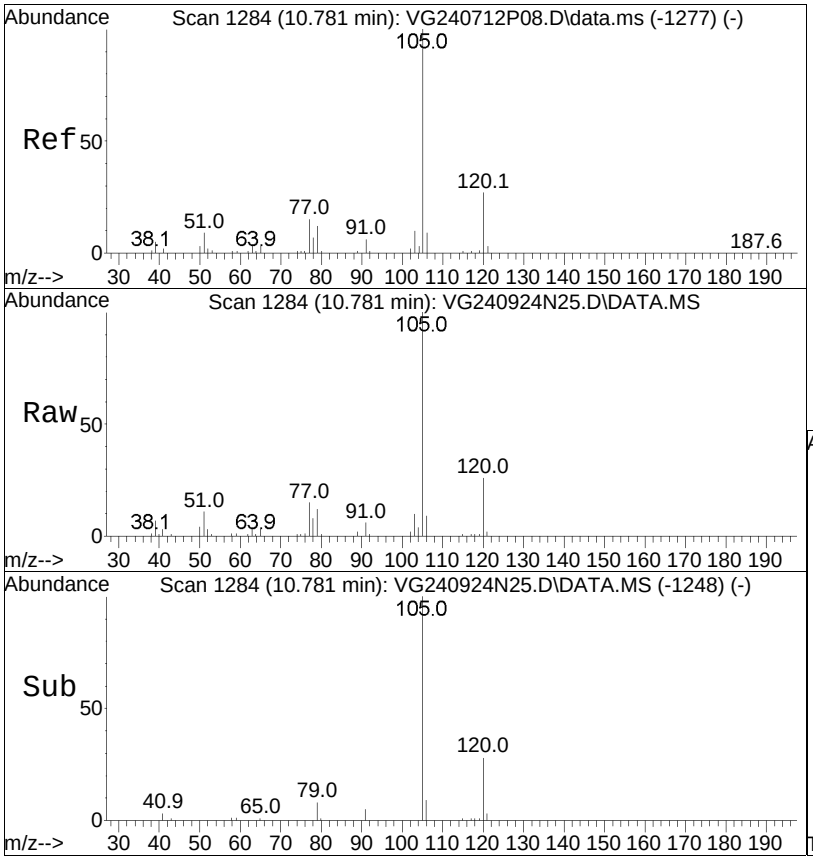


#80
Bromoform
Concen: 9.23 ug/L
RT: 10.509 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:173 Resp: 38222

Ion	Ratio	Lower	Upper
173	100		
175	46.9	28.0	68.0

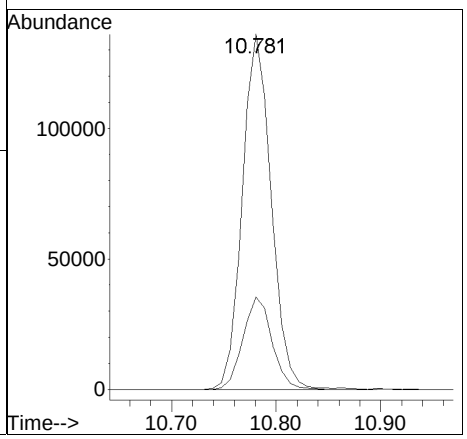


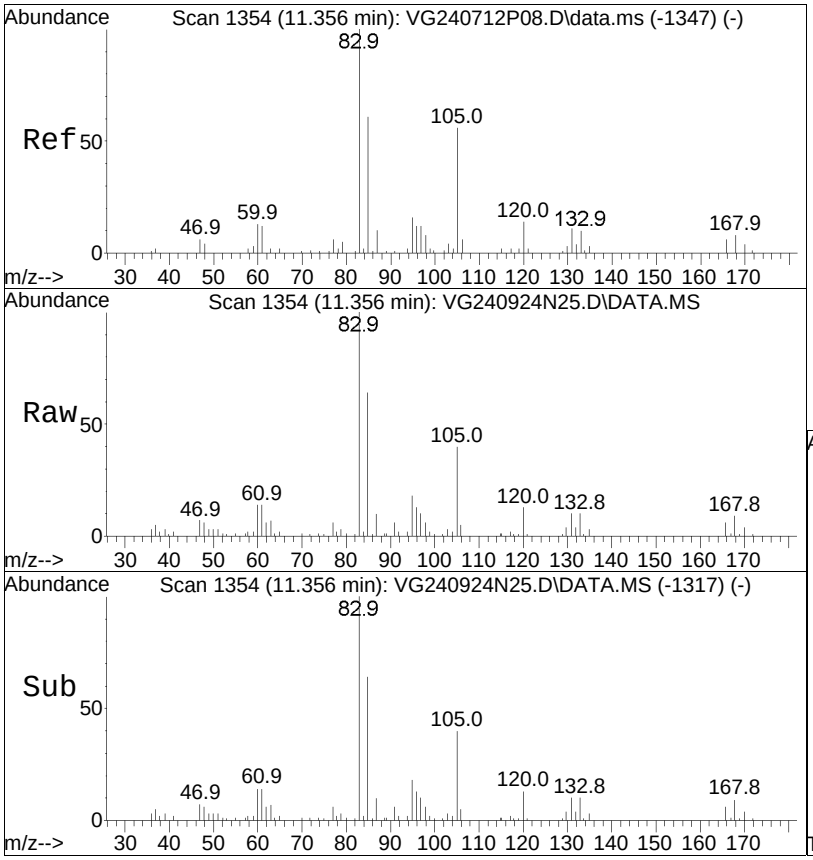


#82
Isopropylbenzene
Concen: 10.00 ug/L
RT: 10.781 min Scan# 1284
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:105 Resp: 261365

Ion	Ratio	Lower	Upper
105	100		
120	26.1	7.0	47.0

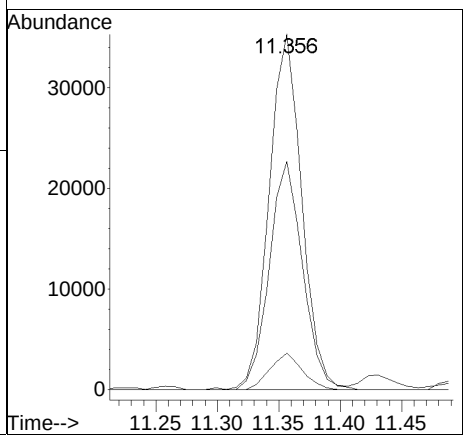


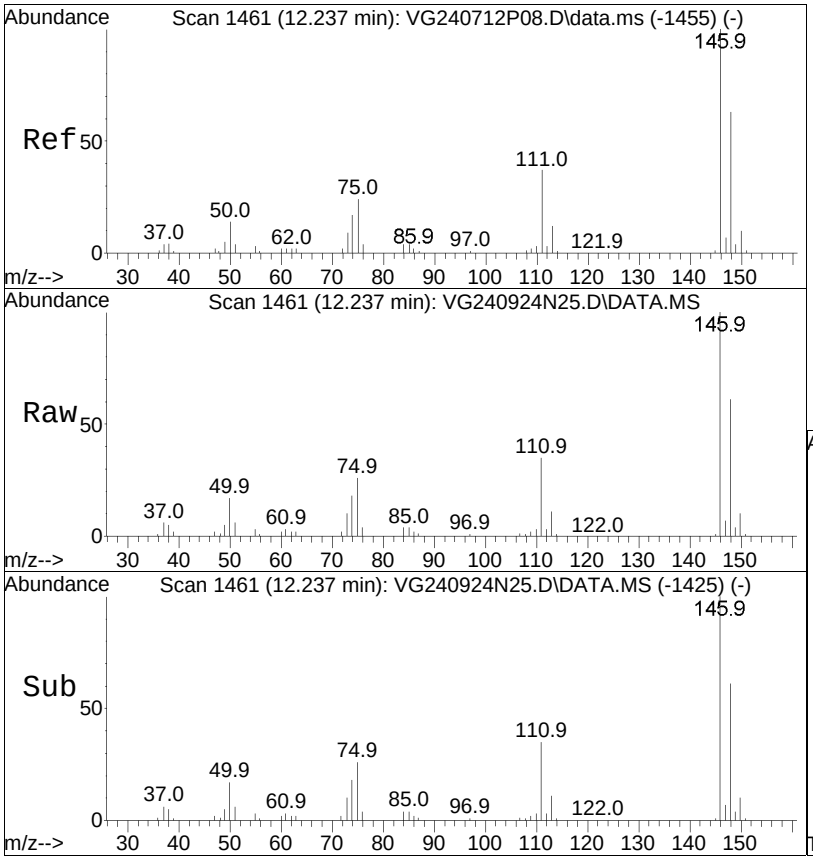


#87
1,1,2,2-Tetrachloroethane
Concen: 11.19 ug/L
RT: 11.356 min Scan# 1354
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion: 83 Resp: 65033

Ion	Ratio	Lower	Upper
83	100		
131	10.0	0.0	31.0
85	65.7	43.9	83.9

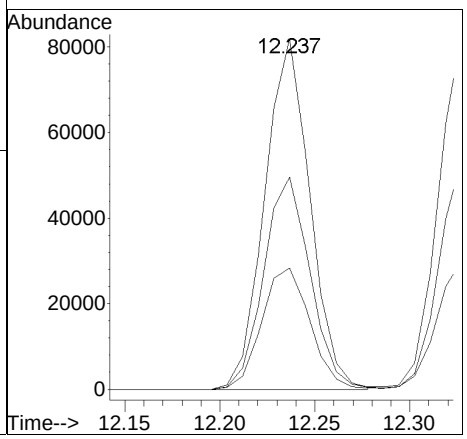


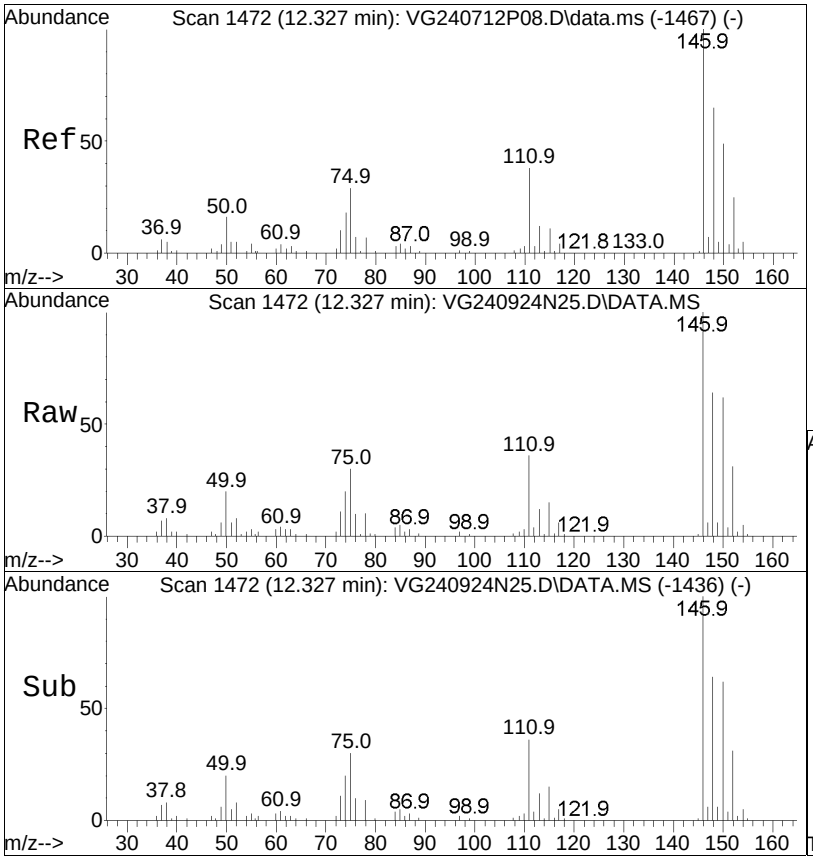


#100
1,3-Dichlorobenzene
Concen: 10.18 ug/L
RT: 12.237 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:146 Resp: 135210

Ion	Ratio	Lower	Upper
146	100		
111	37.2	24.4	50.6
148	62.4	41.0	85.2

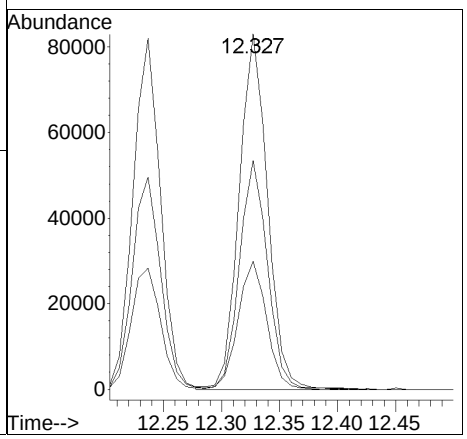


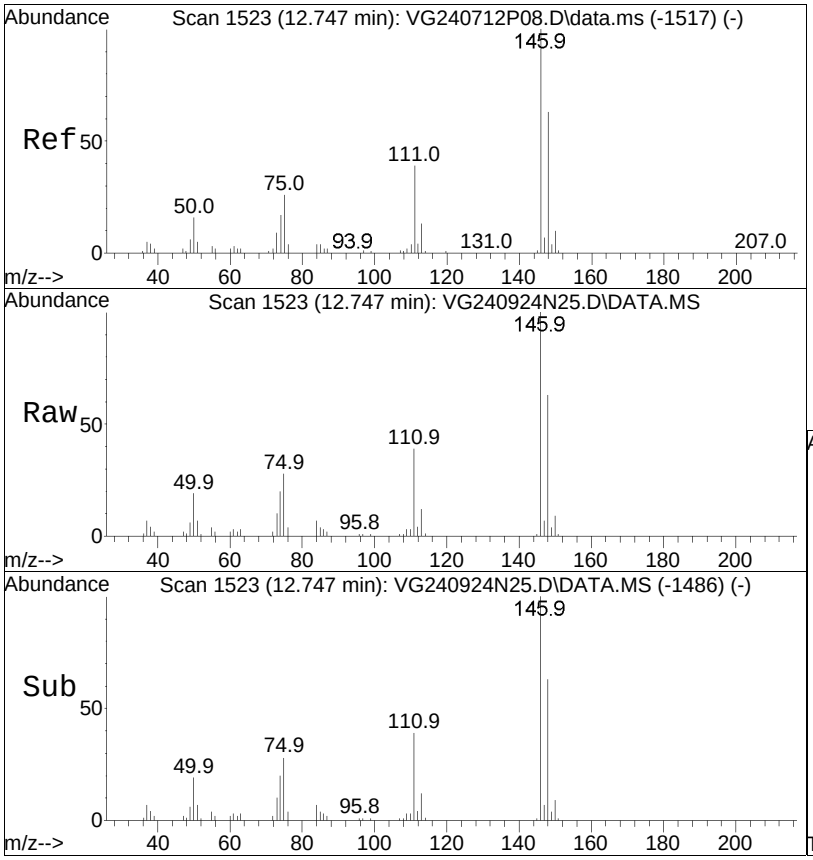


#101
1,4-Dichlorobenzene
Concen: 10.34 ug/L
RT: 12.327 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:146 Resp: 141327

Ion	Ratio	Lower	Upper
146	100		
111	36.3	29.3	43.9
148	63.6	51.2	76.8

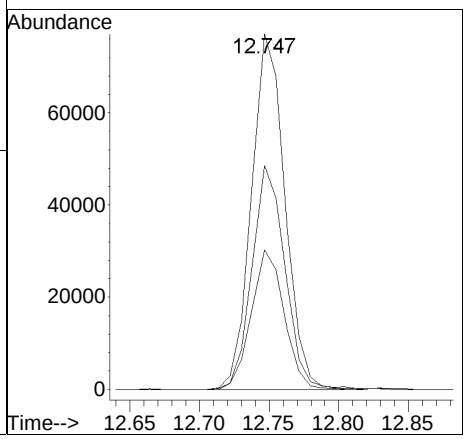


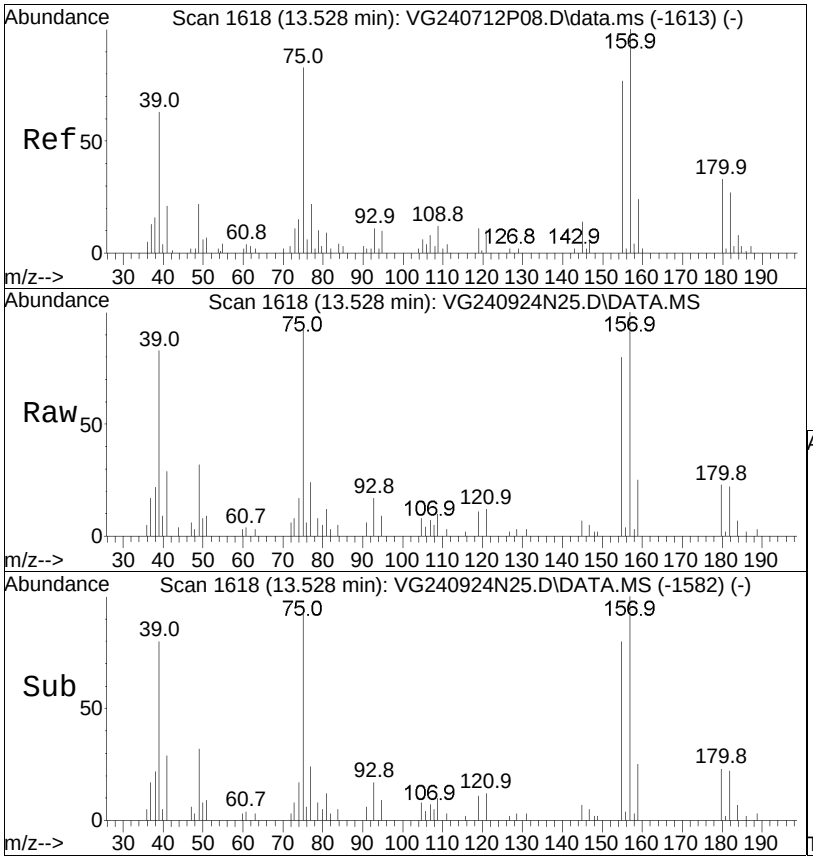


#104
1,2-Dichlorobenzene
Concen: 10.18 ug/L
RT: 12.747 min Scan# 1523
Delta R.T. -0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:146 Resp: 128886

Ion	Ratio	Lower	Upper
146	100		
111	38.8	25.4	52.8
148	61.7	41.7	86.5

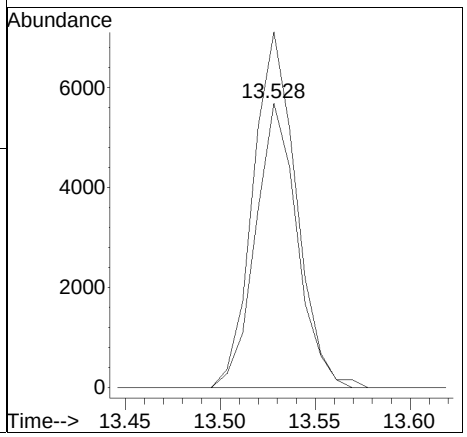


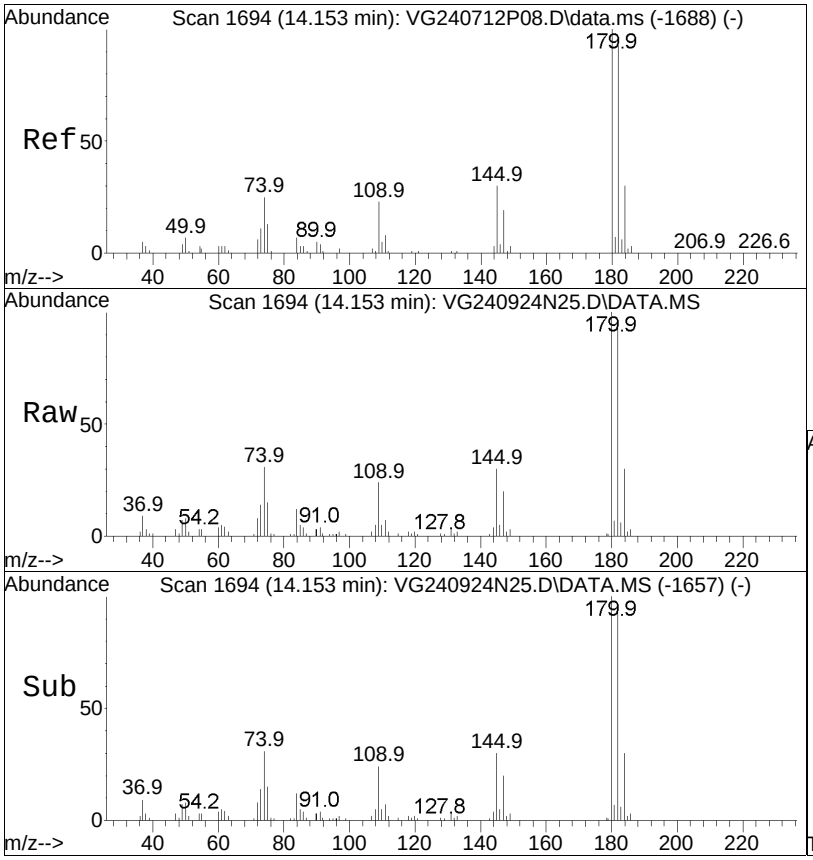


#106
1,2-Dibromo-3-chloropropane
Concen: 8.02 ug/L
RT: 13.528 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:155 Resp: 8637

Ion	Ratio	Lower	Upper
155	100		
157	130.1	99.9	149.9

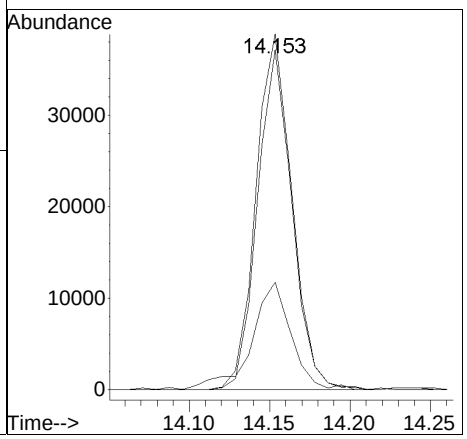


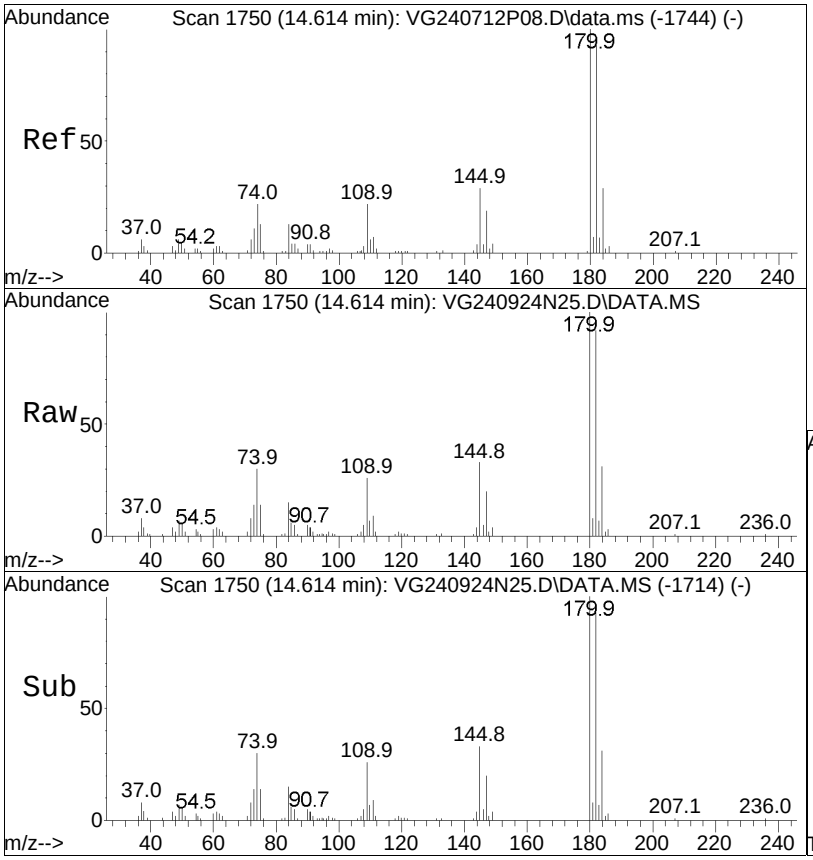


#109
1,2,4-Trichlorobenzene
Concen: 8.35 ug/L
RT: 14.153 min Scan# 1694
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:180 Resp: 60305

Ion	Ratio	Lower	Upper
180	100		
182	91.8	76.7	115.1
145	33.2	26.5	39.7

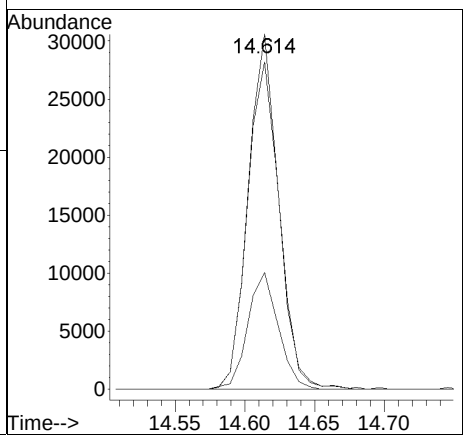




#111
1,2,3-Trichlorobenzene
Concen: 7.77 ug/L
RT: 14.614 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VG240924N25.D
Acq: 25 Sep 2024 4:48 am

Tgt Ion:180 Resp: 46660

Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.0	115.4
145	33.1	24.1	36.1



Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N26.D
Acq On : 25 Sep 2024 5:12 am
Operator : GONZO:MJV
Sample : WG1976114-7,31,10,10,,A2
Misc : WG1976114,ICAL21287
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 25 11:11:49 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.086	96	259638	10.000	ug/L	0.00
Standard Area 1 = 237313			Recovery = 109.41%			
59) Chlorobenzene-d5	9.629	117	200567	10.000	ug/L	0.00
Standard Area 1 = 186402			Recovery = 107.60%			
79) 1,4-Dichlorobenzene-d4	12.311	152	119298	10.000	ug/L	0.00
Standard Area 1 = 107273			Recovery = 111.21%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.281	113	66279	9.774	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.74%			
43) 1,2-Dichloroethane-d4	5.805	65	82772	11.490	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.90%			
60) Toluene-d8	7.779	98	252900	10.044	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.44%			
83) 4-Bromofluorobenzene	11.109	95	91971	9.230	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.680	85	80500	11.678	ug/L	97
3) Chloromethane	1.892	50	65975	11.189	ug/L	99
4) Vinyl chloride	1.946	62	73959	12.107	ug/L	98
5) Bromomethane	2.265	94	20964	6.482	ug/L	99
6) Chloroethane	2.363	64	85512	18.310	ug/L	92
7) Trichlorofluoromethane	2.515	101	102812	11.479	ug/L	98
10) 1,1-Dichloroethene	3.017	96	52693	10.729	ug/L	87
11) Carbon disulfide	3.047	76	159574	11.047	ug/L	99
12) Freon-113	3.047	101	53882	9.998	ug/L #	70
15) Methylene chloride	3.579	84	56976	9.812	ug/L	76
17) Acetone	3.625	43	13885	10.181	ug/L	90
18) trans-1,2-Dichloroethene	3.731	96	53697	9.995	ug/L	87
19) Methyl acetate	3.739	43	24875	8.328	ug/L #	89
20) Methyl tert-butyl ether	3.815	73	153989	9.321	ug/L	93
23) 1,1-Dichloroethane	4.308	63	106832	10.978	ug/L	98
28) cis-1,2-Dichloroethene	4.833	96	61188	9.905	ug/L	92
30) Bromochloromethane	5.030	128	28721	9.503	ug/L #	78
31) Cyclohexane	5.022	56	92548	10.026	ug/L	80
32) Chloroform	5.098	83	109272	10.969	ug/L	96
34) Carbon tetrachloride	5.228	117	82222	10.184	ug/L	96

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N26.D
Acq On : 25 Sep 2024 5:12 am
Operator : GONZO:MJV
Sample : WG1976114-7,31,10,10,,A2
Misc : WG1976114,ICAL21287
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 25 11:11:49 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Gonzo\2024\240924N\VG240924N01.D
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.296	97	95472	10.391	ug/L		94
39) 2-Butanone	5.395	43	19486	10.347	ug/L		87
41) Benzene	5.668	78	234393	10.538	ug/L		95
44) 1,2-Dichloroethane	5.873	62	84266	11.887	ug/L		98
47) Methyl cyclohexane	6.246	83	72345	8.370	ug/L	#	80
48) Trichloroethene	6.268	95	60877	9.706	ug/L		99
51) 1,2-Dichloropropane	6.808	63	58854	10.844	ug/L		97
54) Bromodichloromethane	6.884	83	82081	10.361	ug/L		99
58) cis-1,3-Dichloropropene	7.578	75	80439	9.079	ug/L	#	90
61) Toluene	7.836	92	144404	10.360	ug/L		98
62) 4-Methyl-2-pentanone	8.273	58	15158	9.863	ug/L		86
63) Tetrachloroethene	8.280	166	58386	9.542	ug/L		95
65) trans-1,3-Dichloropropene	8.323	75	73821	9.674	ug/L		91
68) 1,1,2-Trichloroethane	8.510	83	40182	10.505	ug/L		100
69) Chlorodibromomethane	8.725	129	58002	9.591	ug/L		96
71) 1,2-Dibromoethane	9.004	107	48669	10.031	ug/L		96
72) 2-Hexanone	9.283	43	26265	9.215	ug/L		92
73) Chlorobenzene	9.645	112	159293	10.254	ug/L		99
74) Ethylbenzene	9.678	91	266952	10.031	ug/L		98
76) p/m Xylene	9.867	106	206770	19.650	ug/L		97
77) o Xylene	10.402	106	201236	19.742	ug/L		96
78) Styrene	10.476	104	338114	19.574	ug/L		98
80) Bromoform	10.509	173	35733	8.455	ug/L		97
82) Isopropylbenzene	10.780	105	251921	9.439	ug/L		99
87) 1,1,2,2-Tetrachloroethane	11.356	83	63011	10.623	ug/L		96
100) 1,3-Dichlorobenzene	12.236	146	130322	9.613	ug/L		98
101) 1,4-Dichlorobenzene	12.327	146	136519	9.778	ug/L		99
104) 1,2-Dichlorobenzene	12.746	146	127024	9.823	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.528	155	9083	8.256	ug/L		97
109) 1,2,4-Trichlorobenzene	14.153	180	58963	8.000	ug/L		99
111) 1,2,3-Trichlorobenzene	14.614	180	50309	8.209	ug/L		97

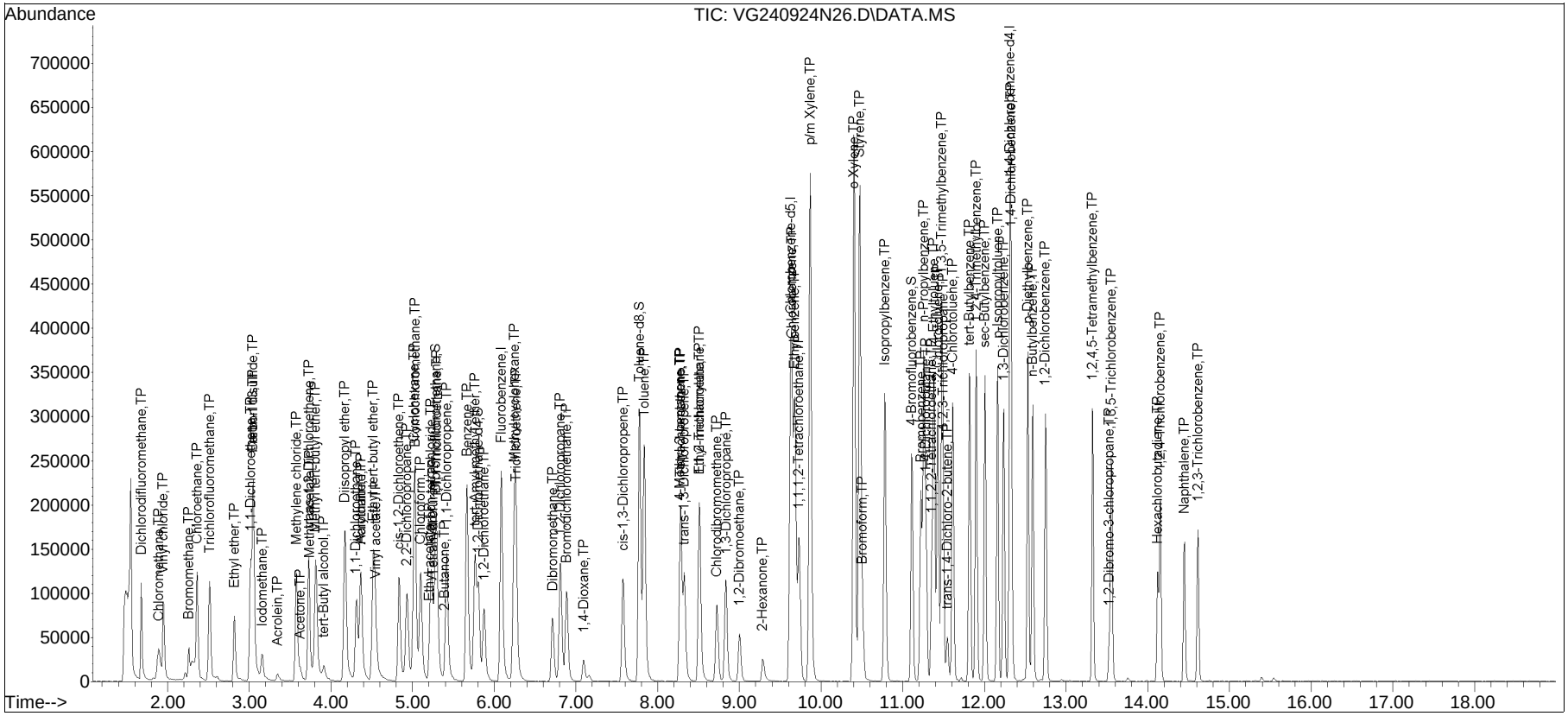
(#) = qualifier out of range (m) = manual integration (+) = signals summed

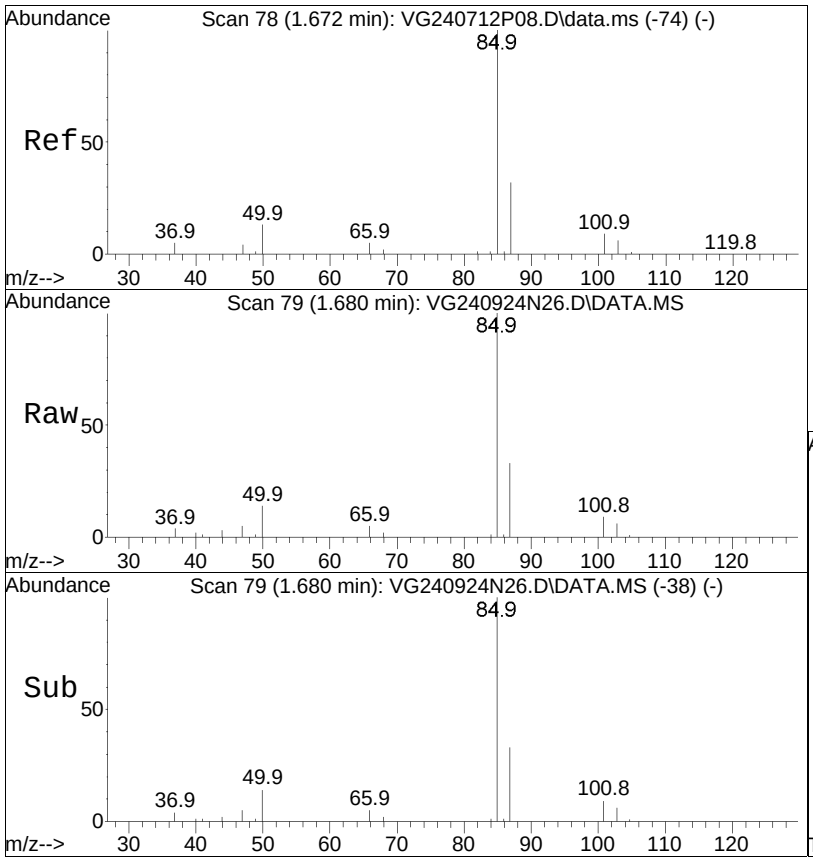
Quantitation Report (QT Reviewed)

Data Path : K:\Gonzo\2024\240924N\
Data File : VG240924N26.D
Acq On : 25 Sep 2024 5:12 am
Operator : GONZO:MJV
Sample : WG1976114-7,31,10,10,,A2
Misc : WG1976114,ICAL21287
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 25 11:11:49 2024
Quant Method : K:\Gonzo\2024\240924N\G_240712P_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Jul 15 09:43:32 2024
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE.D•

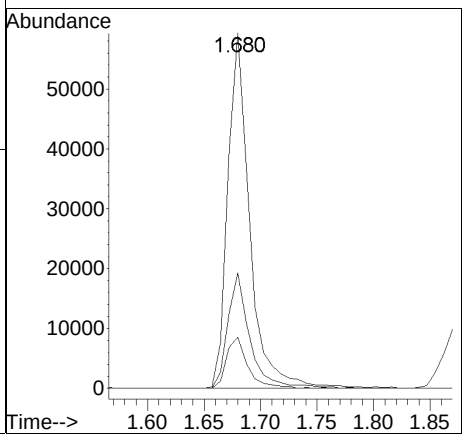


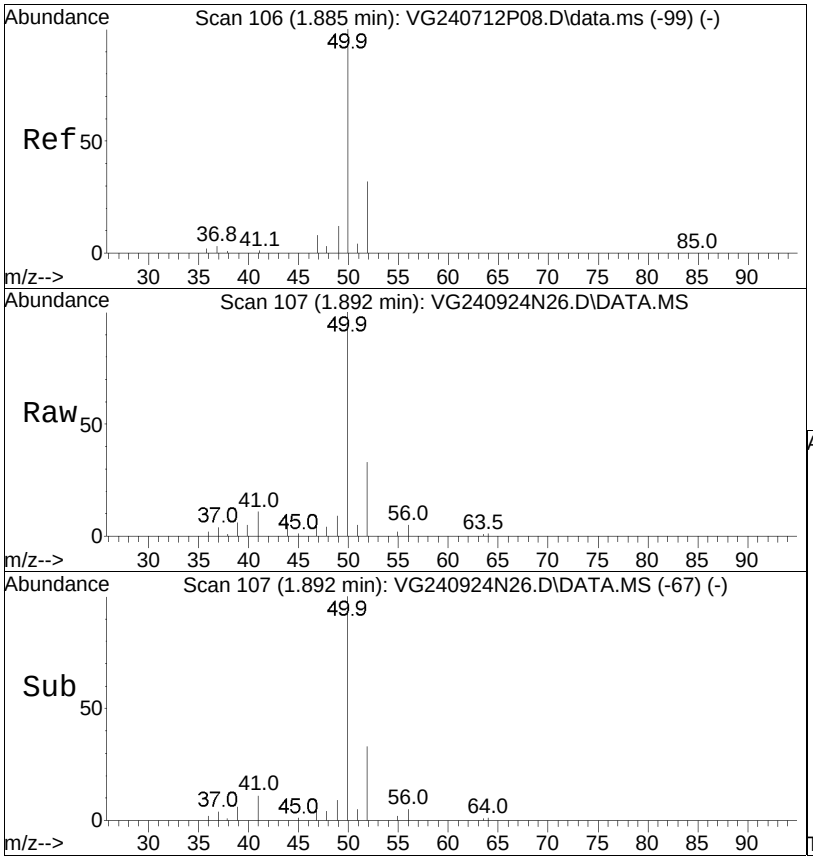


#2
Dichlorodifluoromethane
Concen: 11.68 ug/L
RT: 1.680 min Scan# 79
Delta R.T. 0.008 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 85 Resp: 80500

Ion	Ratio	Lower	Upper
85	100		
87	32.6	20.7	42.9
50	14.1	7.5	15.5

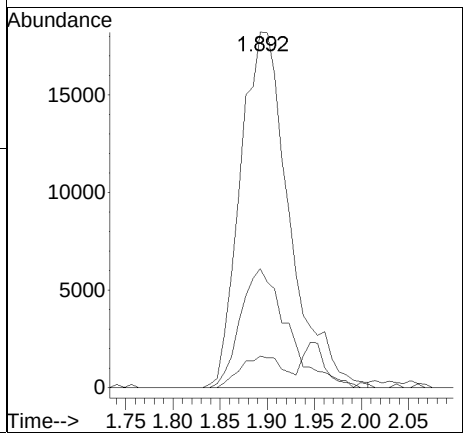


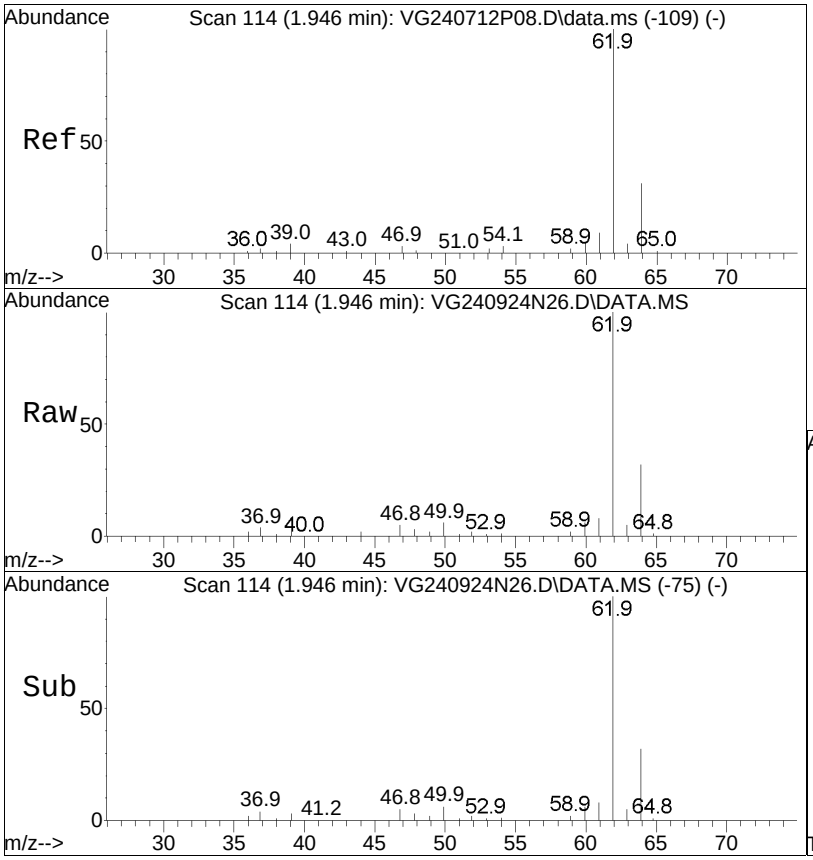


#3
Chloromethane
Concen: 11.19 ug/L
RT: 1.892 min Scan# 107
Delta R.T. 0.007 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 50 Resp: 65975

Ion	Ratio	Lower	Upper
50	100		
52	32.2	11.7	51.7
47	7.8	0.0	28.0

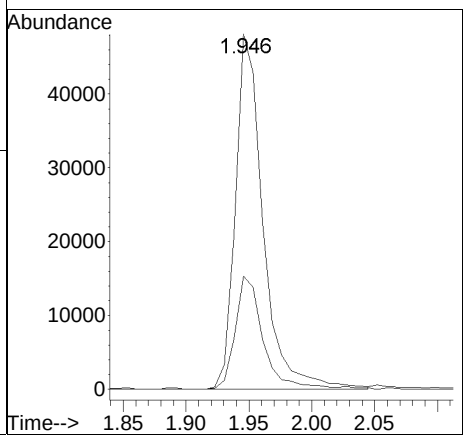


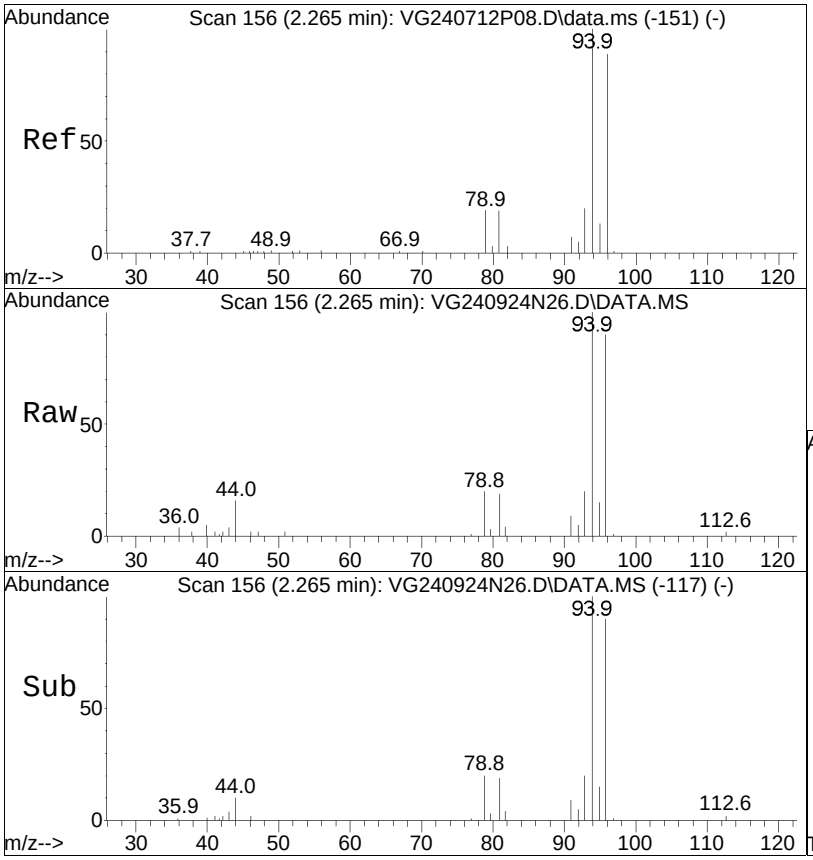


#4
Vinyl chloride
Concen: 12.11 ug/L
RT: 1.946 min Scan# 114
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 62 Resp: 73959

Ion	Ratio	Lower	Upper
62	100		
64	32.4	11.3	51.3

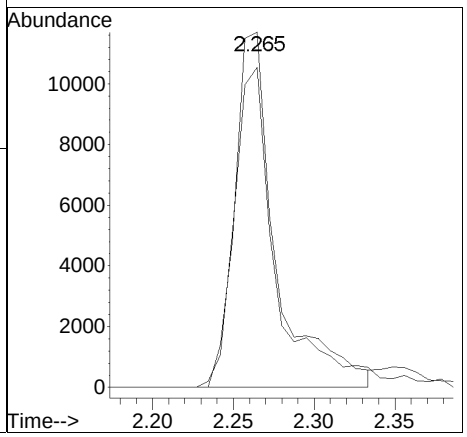


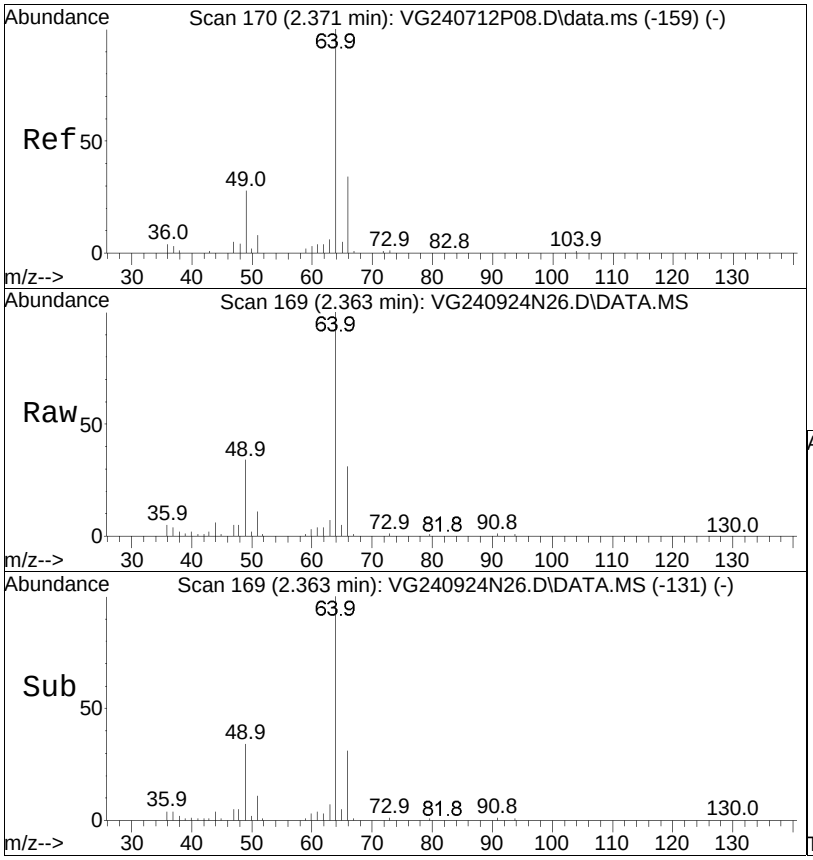


#5
Bromomethane
Concen: 6.48 ug/L
RT: 2.265 min Scan# 156
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 94 Resp: 20964

Ion	Ratio	Lower	Upper
94	100		
96	94.1	75.2	115.2

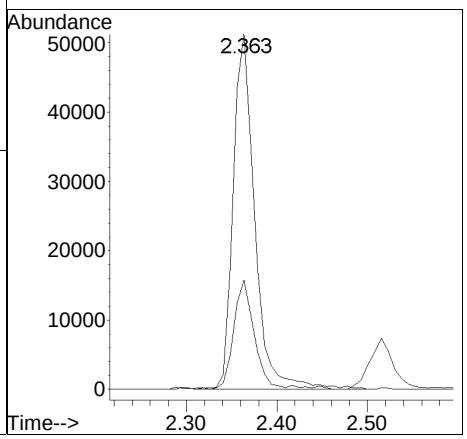


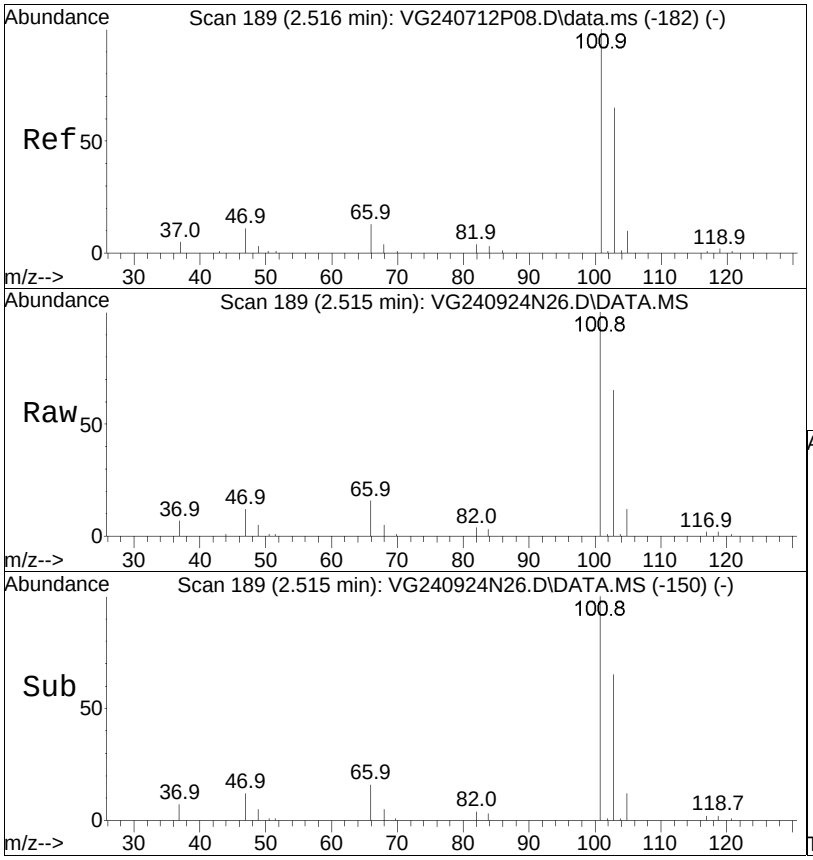


#6
Chloroethane
Concen: 18.31 ug/L
RT: 2.363 min Scan# 169
Delta R.T. -0.008 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 64 Resp: 85512

Ion	Ratio	Lower	Upper
64	100		
66	28.8	13.7	53.7

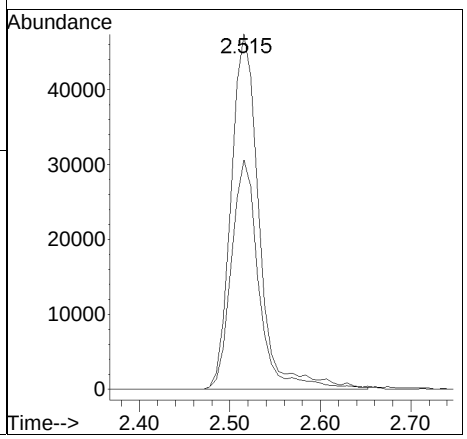


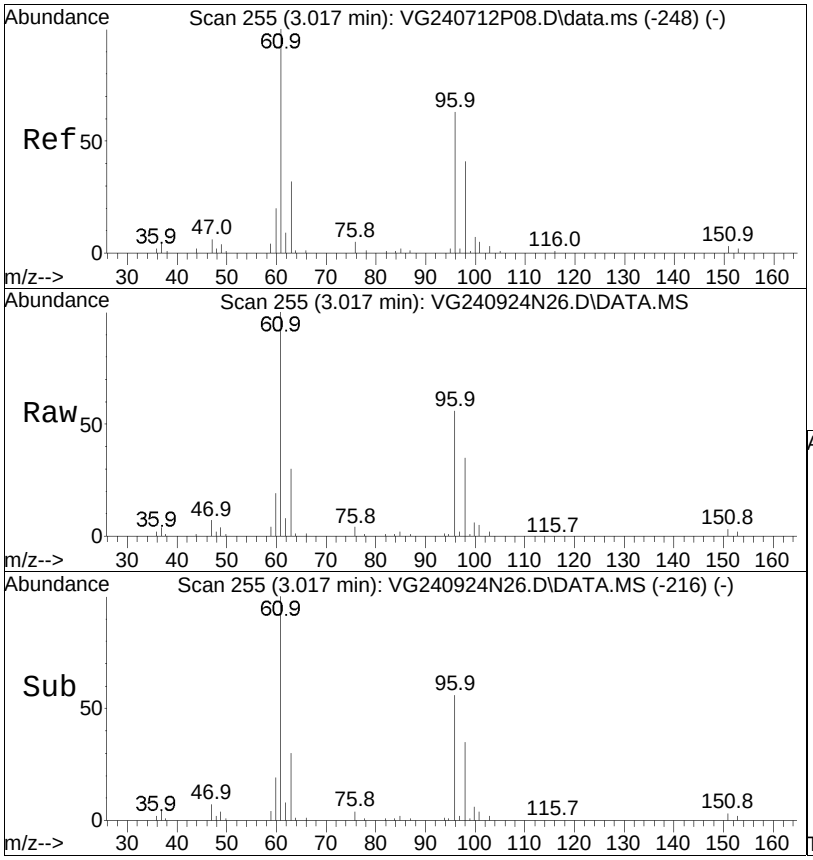


#7
Trichlorofluoromethane
Concen: 11.48 ug/L
RT: 2.515 min Scan# 189
Delta R.T. -0.001 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:101 Resp: 102812

Ion	Ratio	Lower	Upper
101	100		
103	63.9	52.2	78.2

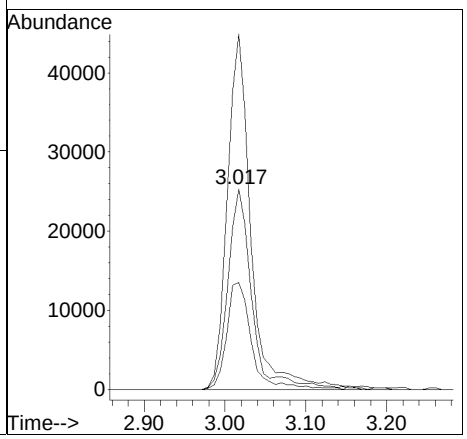


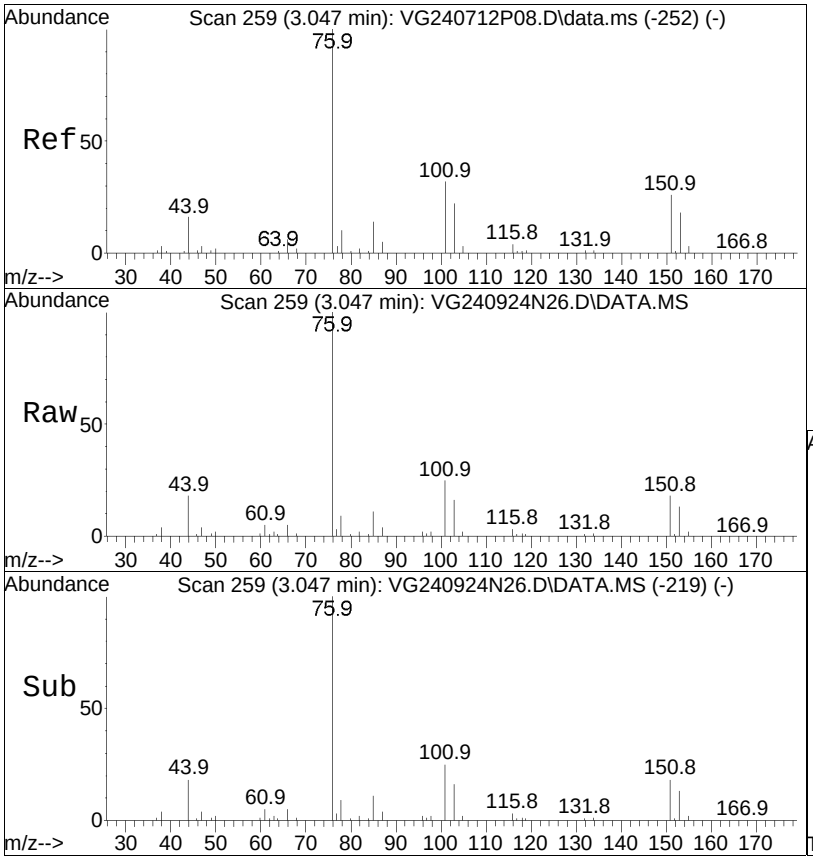


#10
1,1-Dichloroethene
Concen: 10.73 ug/L
RT: 3.017 min Scan# 255
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 96 Resp: 52693

Ion	Ratio	Lower	Upper
96	100		
61	174.2	124.2	186.4
63	54.6	40.0	60.0

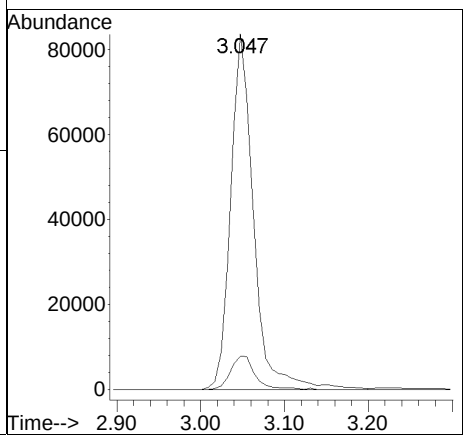


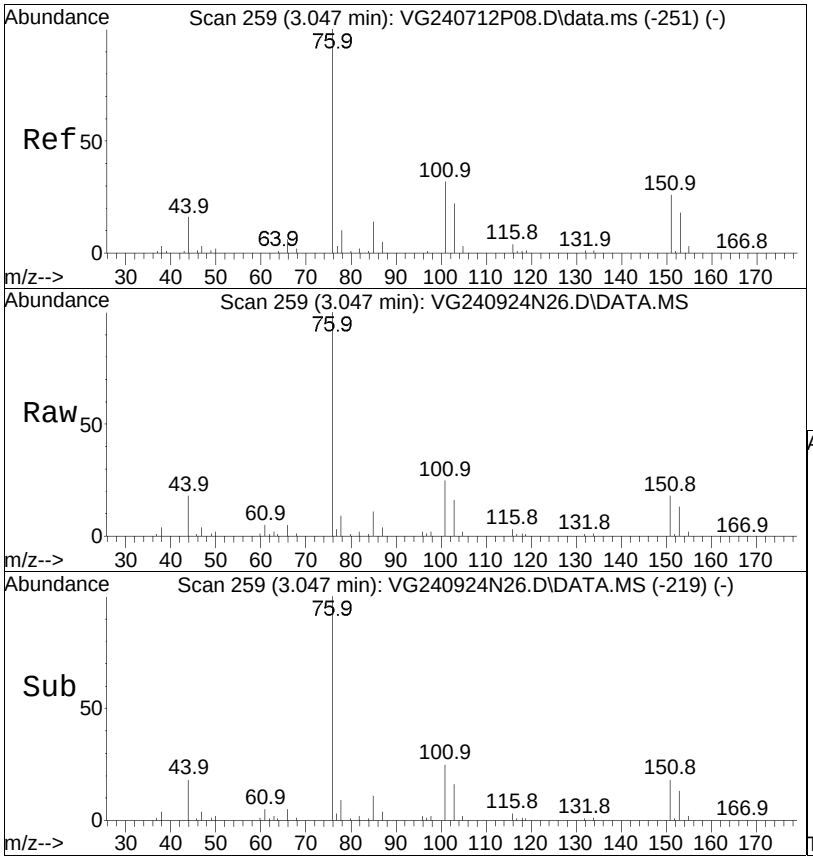


#11
Carbon disulfide
Concen: 11.05 ug/L
RT: 3.047 min Scan# 259
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 76 Resp: 159574

Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.6	13.6

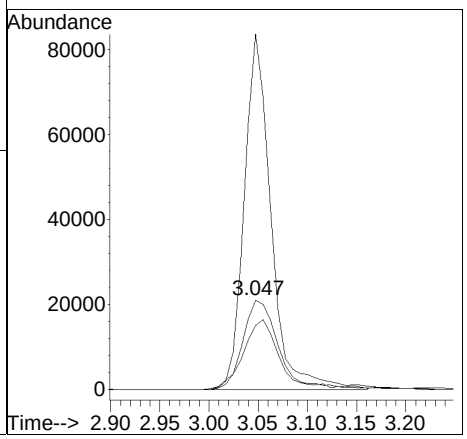


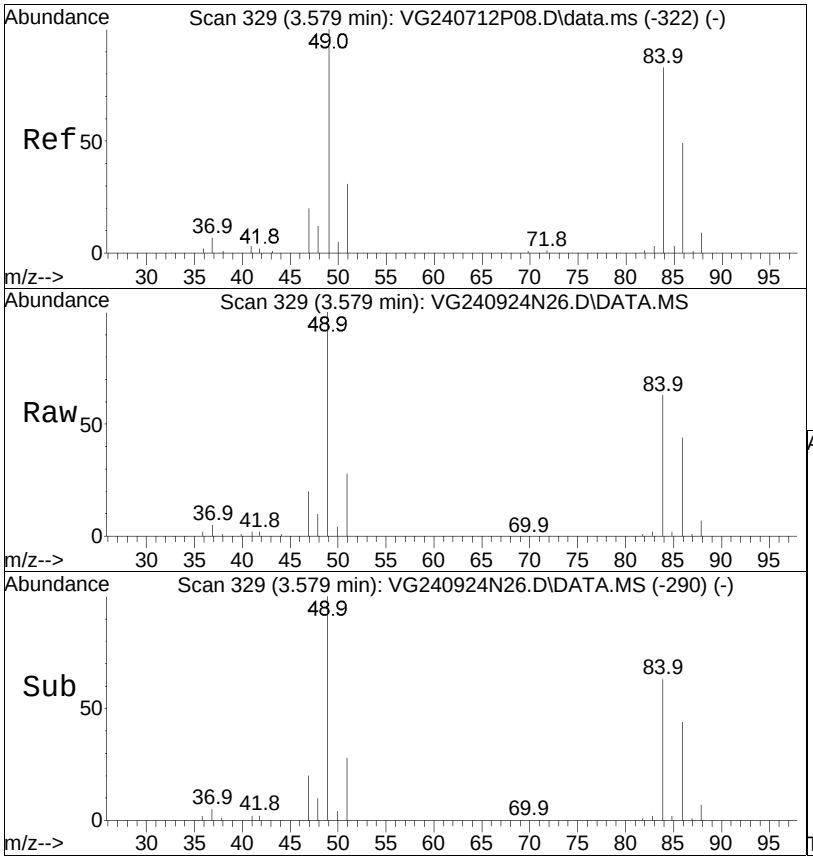


#12
Freon-113
Concen: 10.00 ug/L
RT: 3.047 min Scan# 259
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:101 Resp: 53882

Ion	Ratio	Lower	Upper
101	100		
151	78.3	68.2	102.2
76	296.2	186.0	279.0#

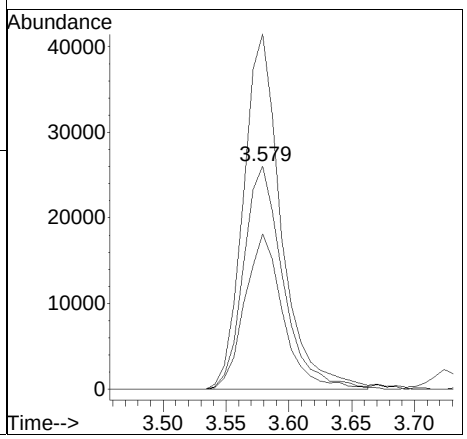


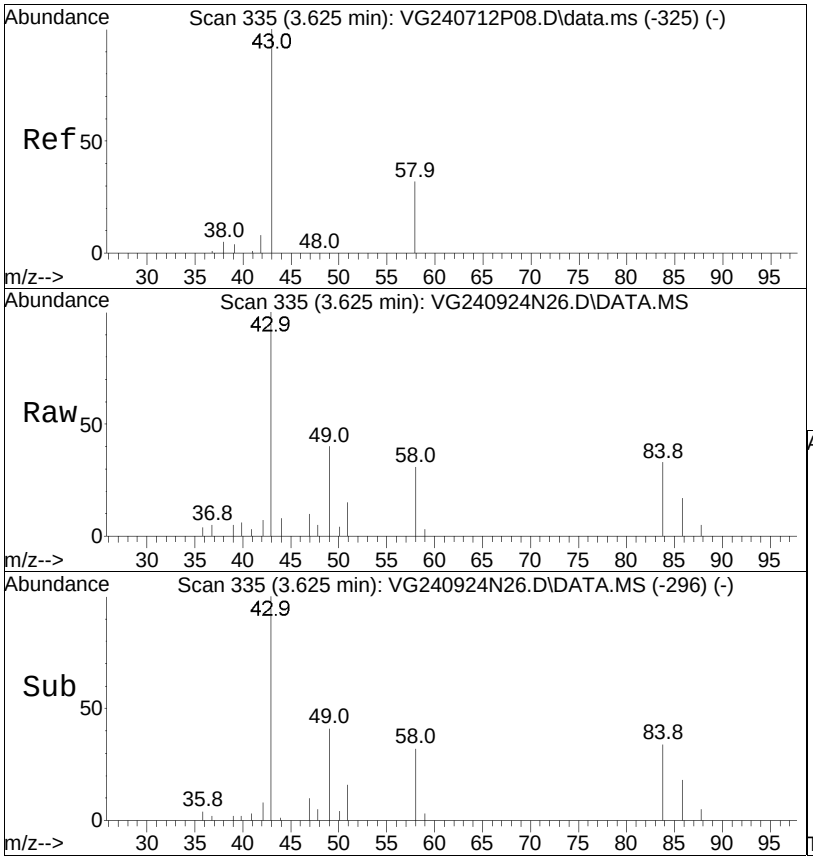


#15
Methylene chloride
Concen: 9.81 ug/L
RT: 3.579 min Scan# 329
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 84 Resp: 56976

Ion	Ratio	Lower	Upper
84	100		
86	68.1	41.1	85.5
49	154.2	76.2	158.2

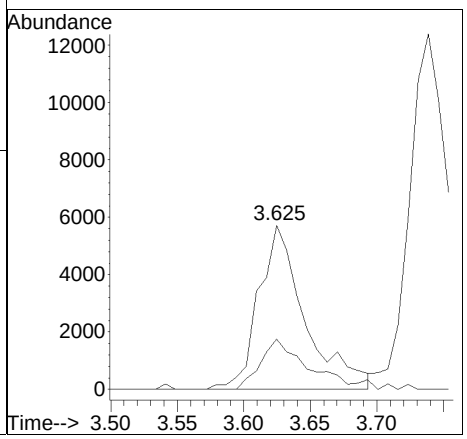


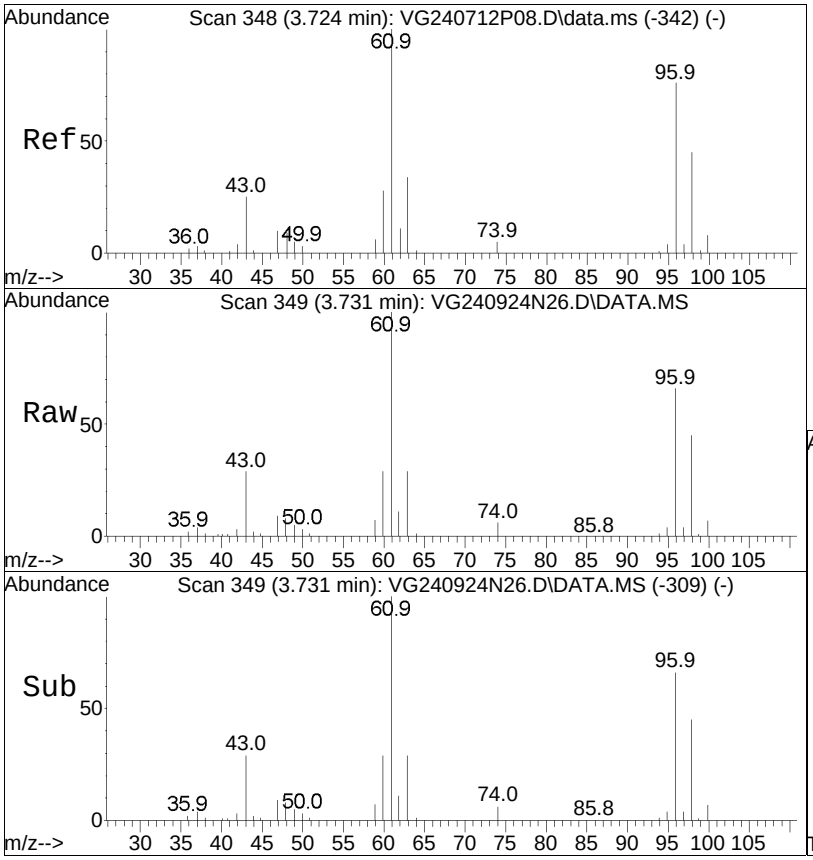


#17
Acetone
Concen: 10.18 ug/L
RT: 3.625 min Scan# 335
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 43 Resp: 13885

Ion	Ratio	Lower	Upper
43	100		
58	33.2	22.2	33.4

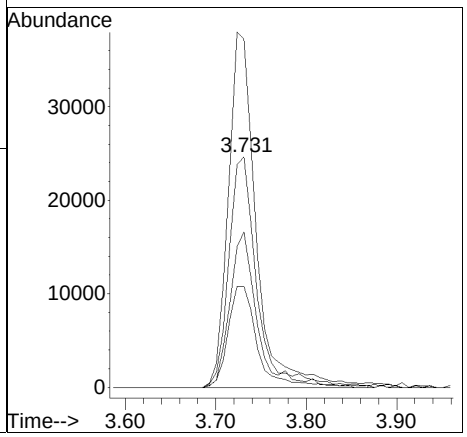


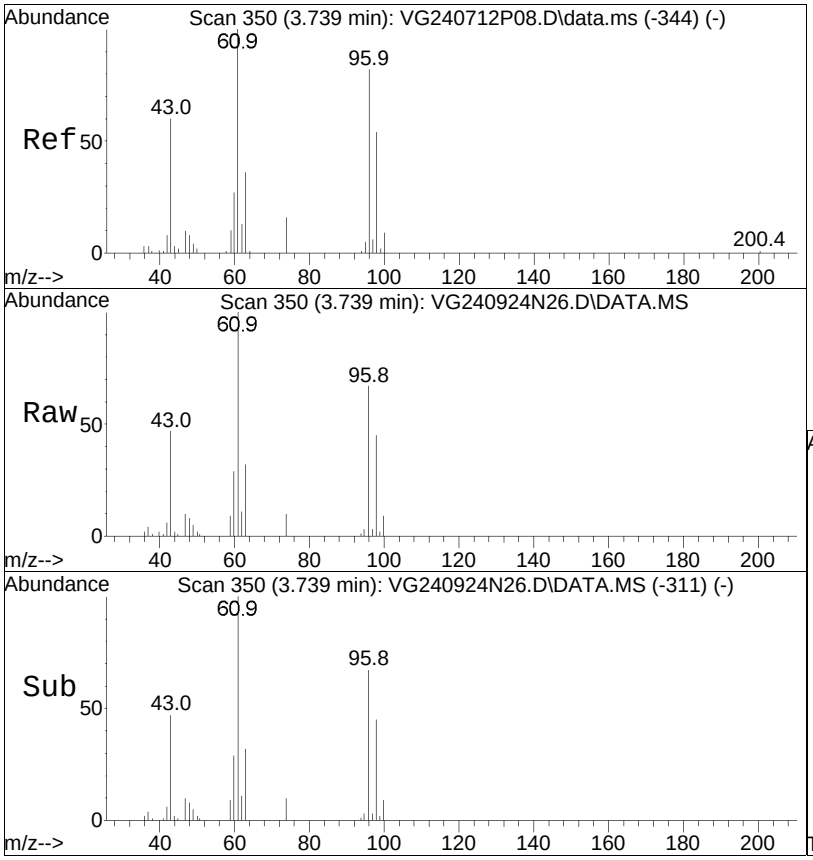


#18
trans-1,2-Dichloroethene
Concen: 9.99 ug/L
RT: 3.731 min Scan# 349
Delta R.T. 0.007 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 96 Resp: 53697

Ion	Ratio	Lower	Upper
96	100		
61	154.5	85.7	178.1
98	65.2	40.2	83.4
63	45.6	28.0	58.2

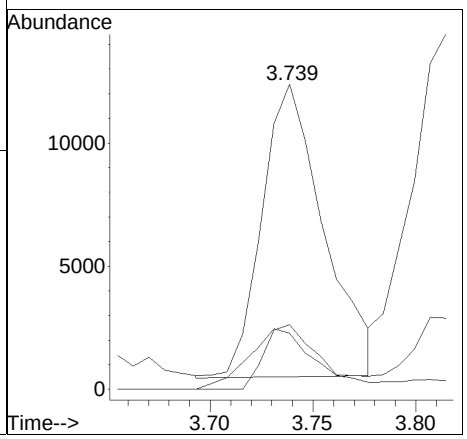


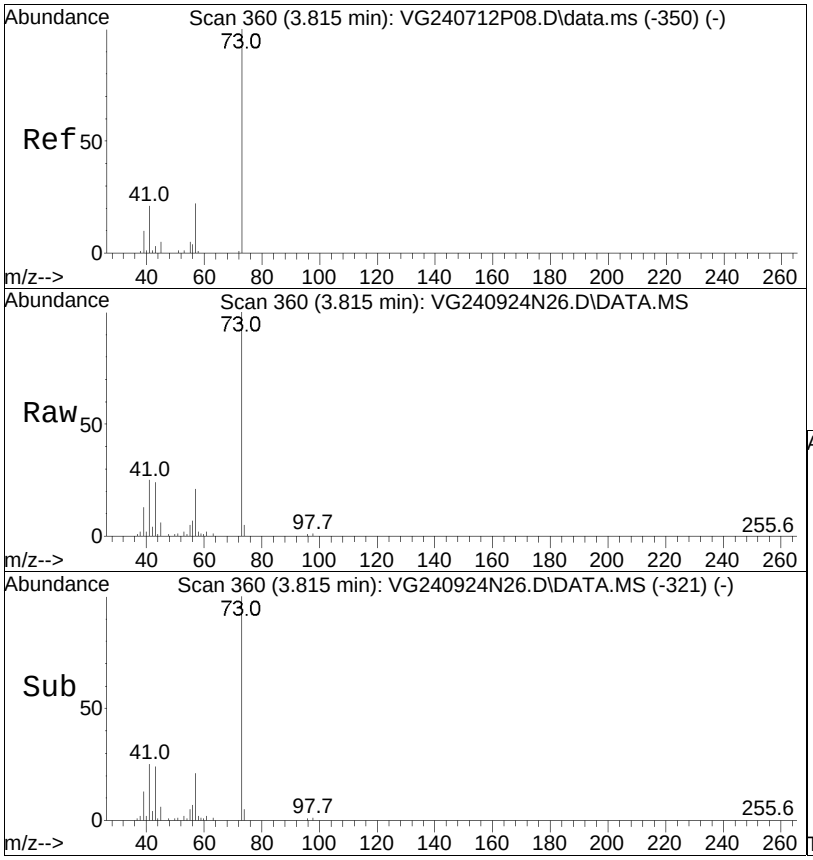


#19
Methyl acetate
Concen: 8.33 ug/L
RT: 3.739 min Scan# 350
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 43 Resp: 24875

Ion	Ratio	Lower	Upper
43	100		
74	19.9	19.3	28.9
59	23.3	13.9	20.9#

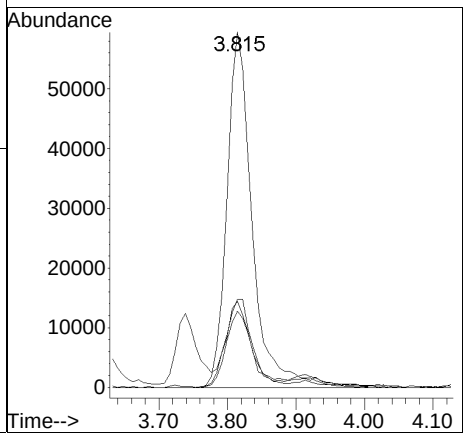


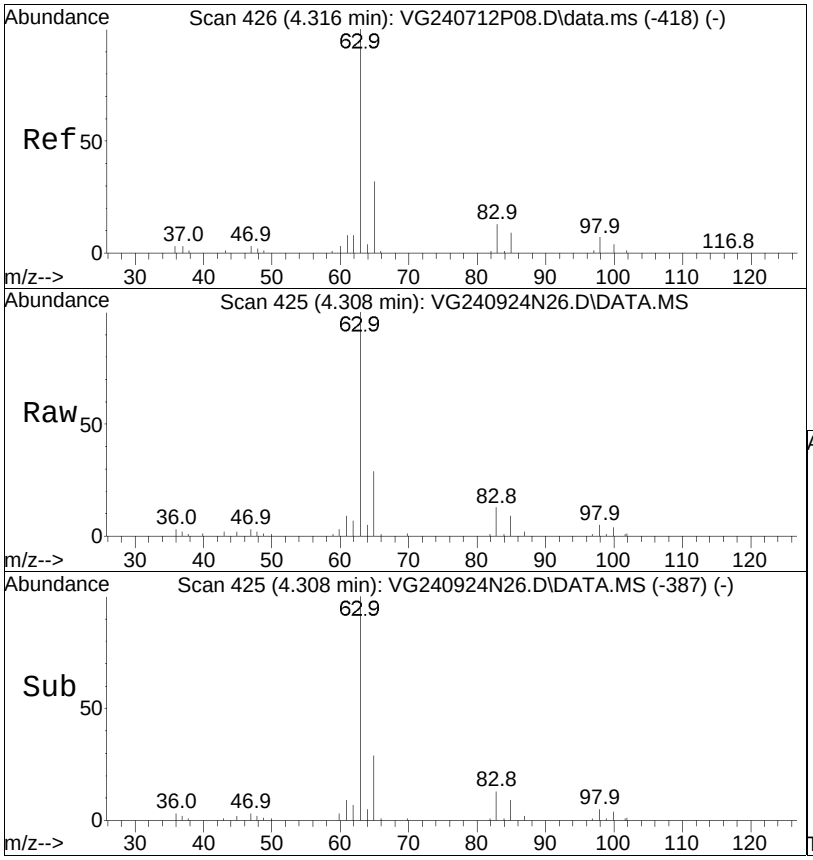


#20
Methyl tert-butyl ether
Concen: 9.32 ug/L
RT: 3.815 min Scan# 360
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 73 Resp: 153989

Ion	Ratio	Lower	Upper
73	100		
57	21.8	12.5	26.1
43	20.9	13.0	27.0
41	26.0	12.5	26.1

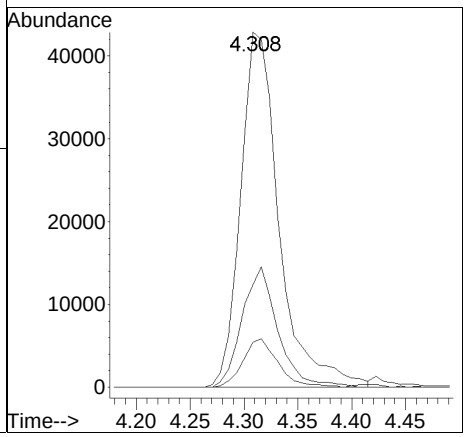


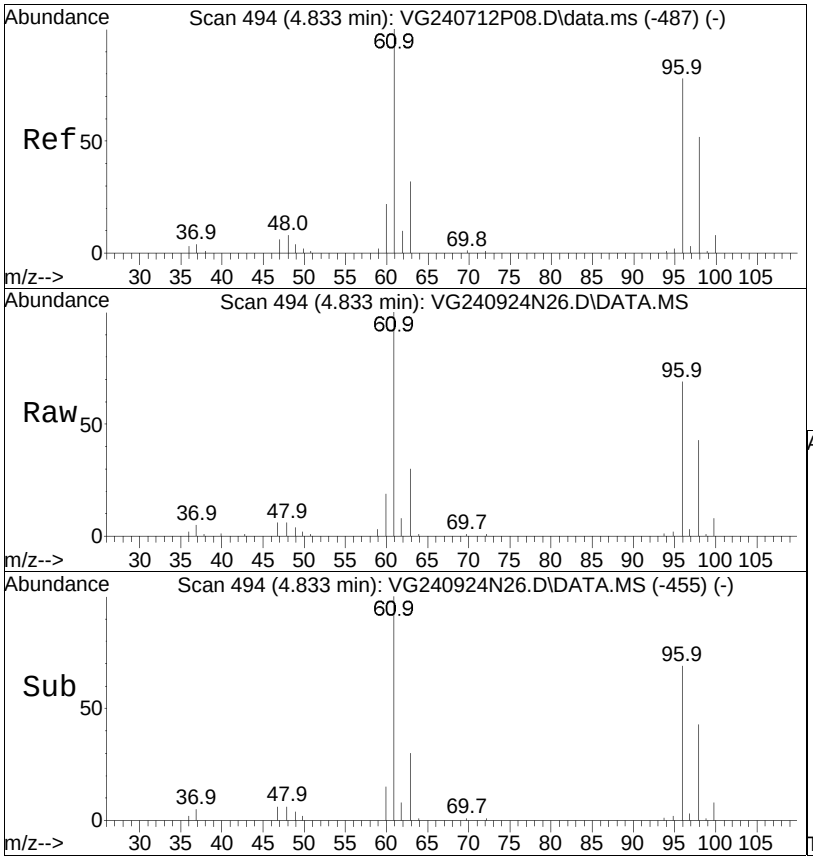


#23
1,1-Dichloroethane
Concen: 10.98 ug/L
RT: 4.308 min Scan# 425
Delta R.T. -0.008 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 63 Resp: 106832

Ion	Ratio	Lower	Upper
63	100		
65	31.6	10.4	50.4
83	12.6	0.0	33.2

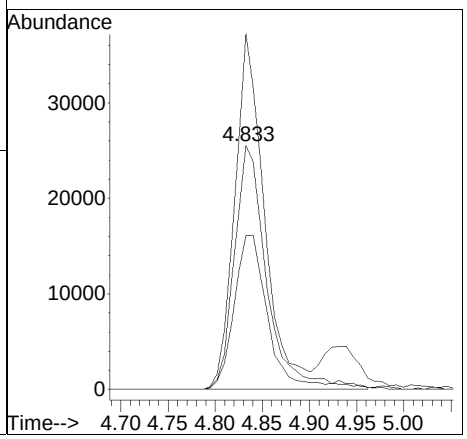


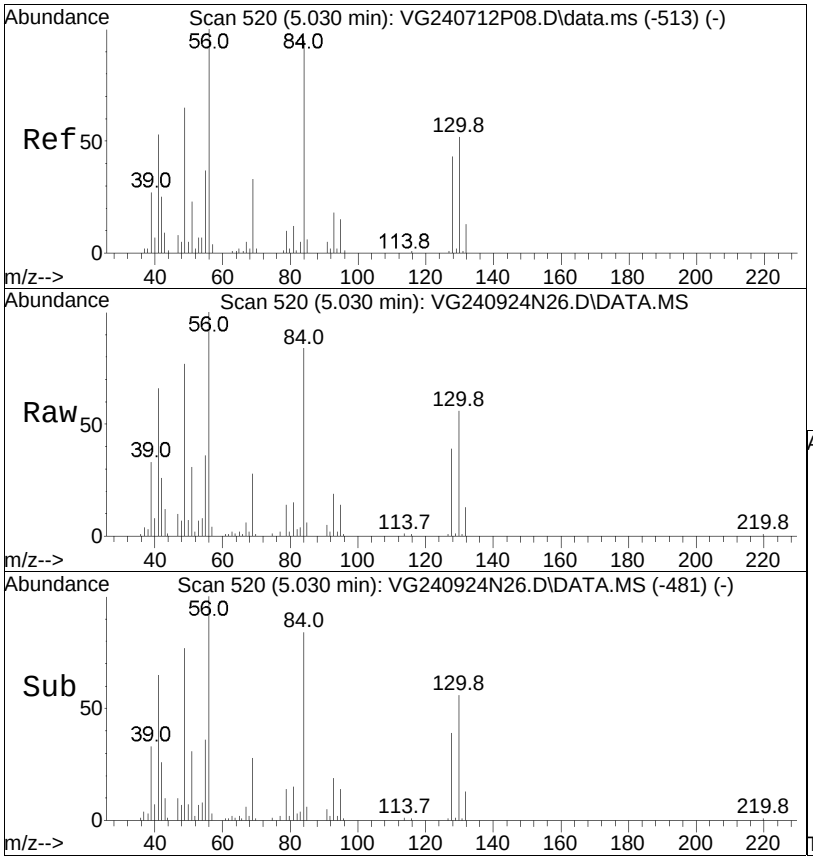


#28
cis-1,2-Dichloroethene
Concen: 9.90 ug/L
RT: 4.833 min Scan# 494
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 96 Resp: 61188

Ion	Ratio	Lower	Upper
96	100		
61	132.8	96.6	144.8
98	66.8	51.3	76.9

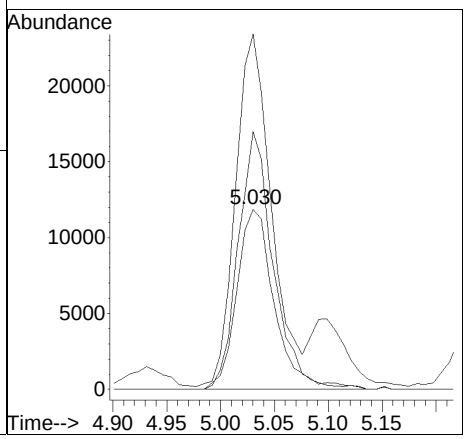


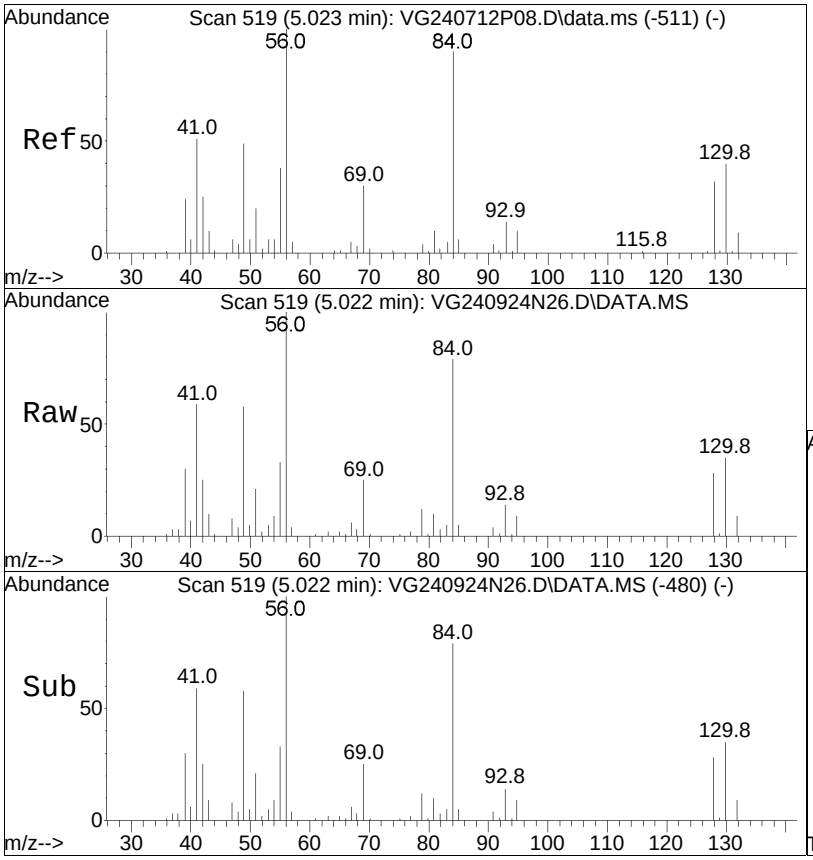


#30
Bromochloromethane
Concen: 9.50 ug/L
RT: 5.030 min Scan# 520
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:128 Resp: 28721

Ion	Ratio	Lower	Upper
128	100		
49	186.2	112.7	169.1#
130	134.7	103.3	154.9

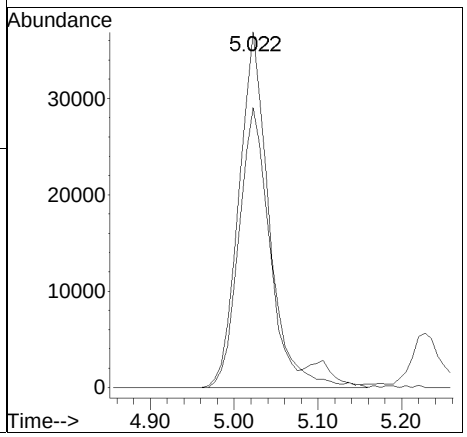


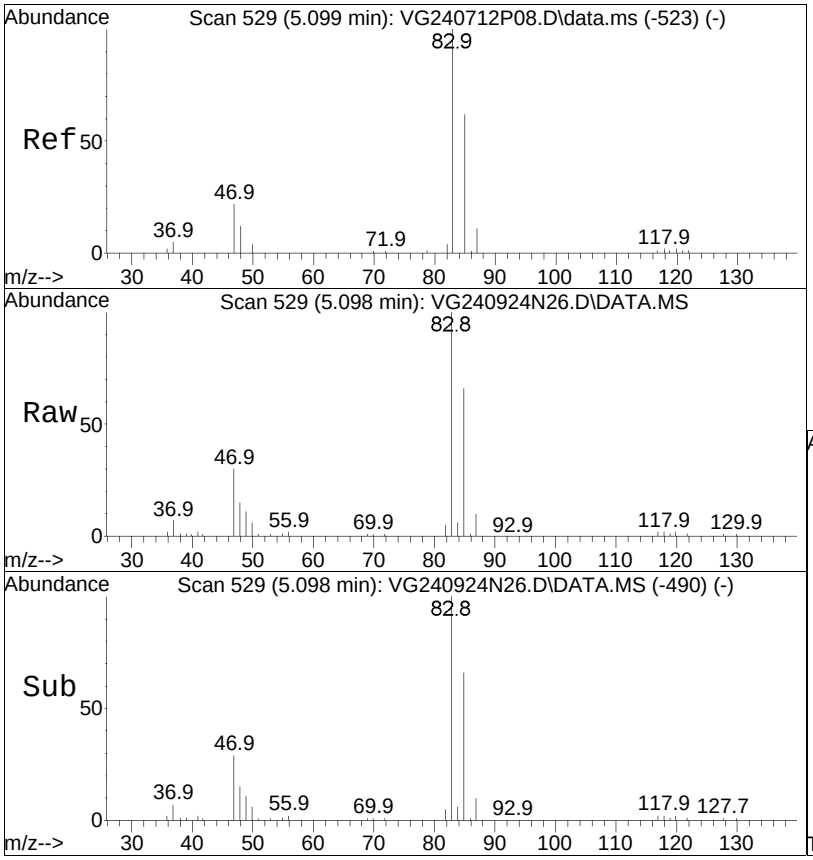


#31
Cyclohexane
Concen: 10.03 ug/L
RT: 5.022 min Scan# 519
Delta R.T. -0.001 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 56 Resp: 92548

Ion	Ratio	Lower	Upper
56	100		
84	78.3	63.8	132.4

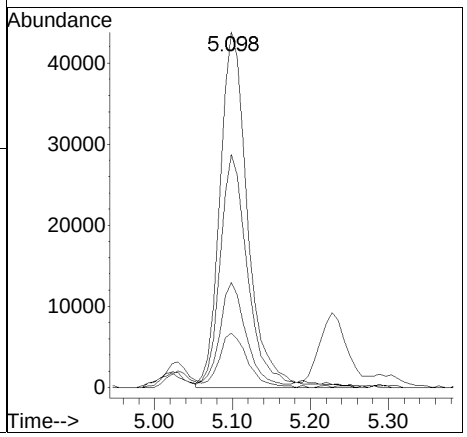


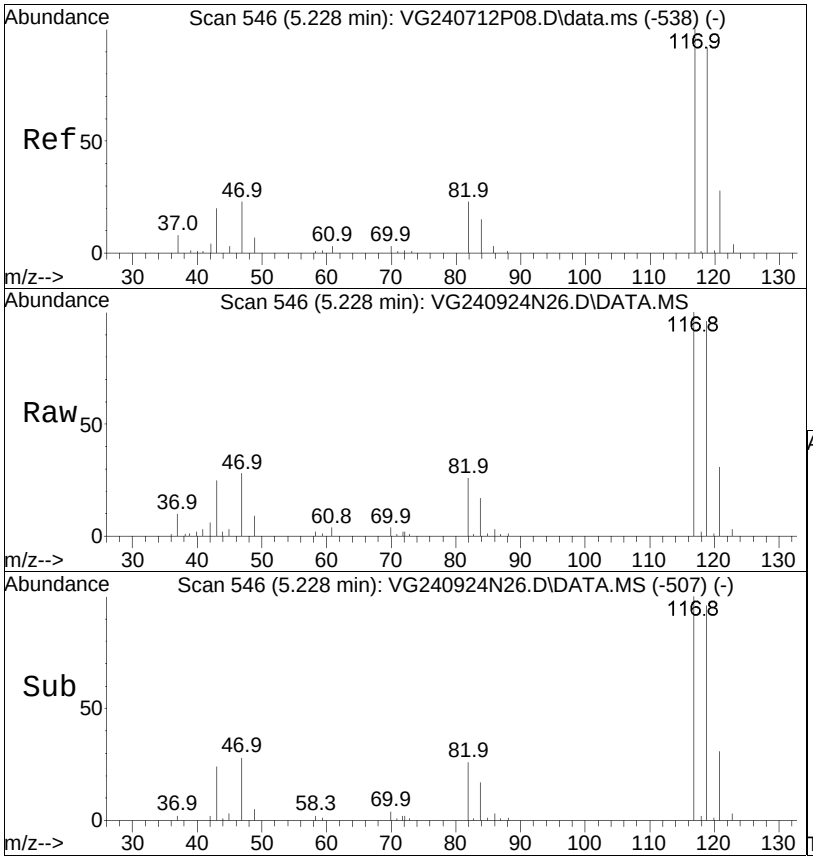


#32
Chloroform
Concen: 10.97 ug/L
RT: 5.098 min Scan# 529
Delta R.T. -0.001 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 83 Resp: 109272

Ion	Ratio	Lower	Upper
83	100		
85	65.5	41.4	86.0
47	25.7	15.1	31.3
48	15.3	7.7	16.1

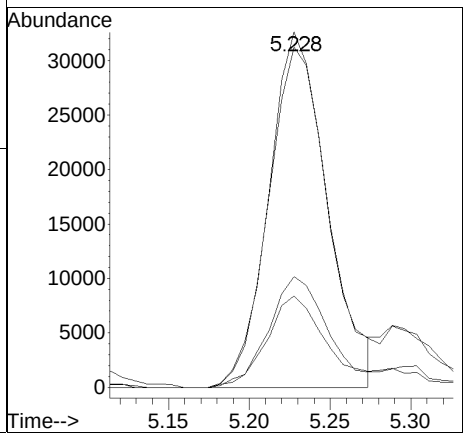


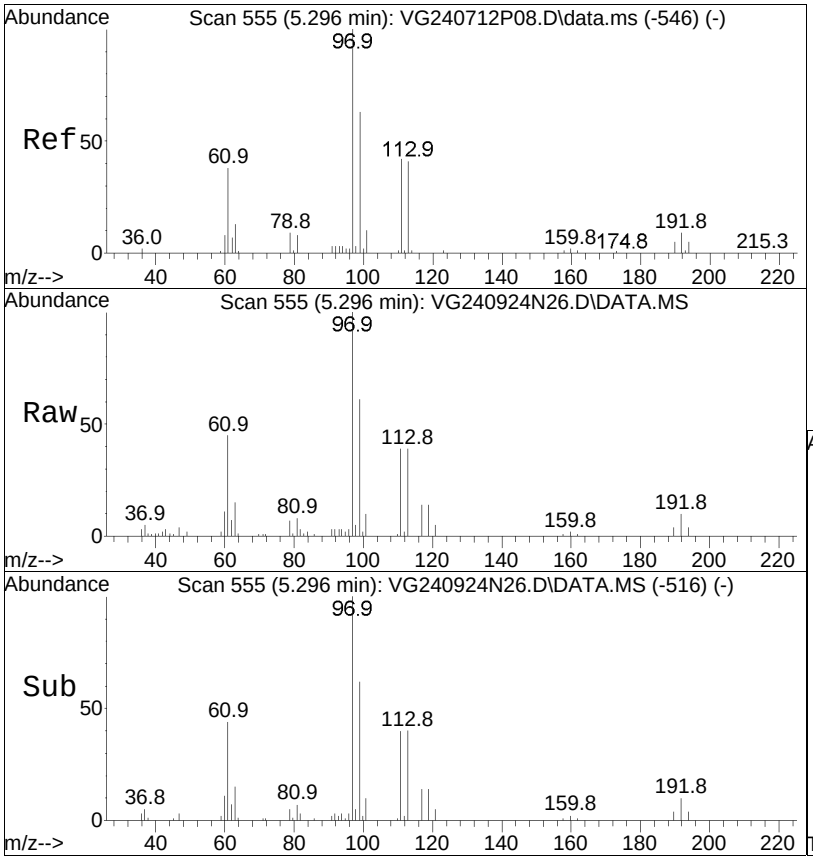


#34
Carbon tetrachloride
Concen: 10.18 ug/L
RT: 5.228 min Scan# 546
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:117 Resp: 82222

Ion	Ratio	Lower	Upper
117	100		
119	99.8	63.2	131.2
121	31.3	20.4	42.4
82	30.7	15.4	32.0

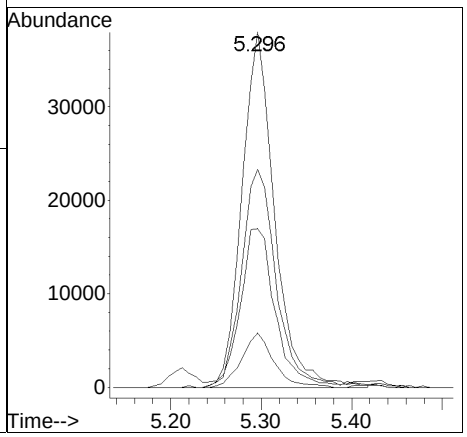


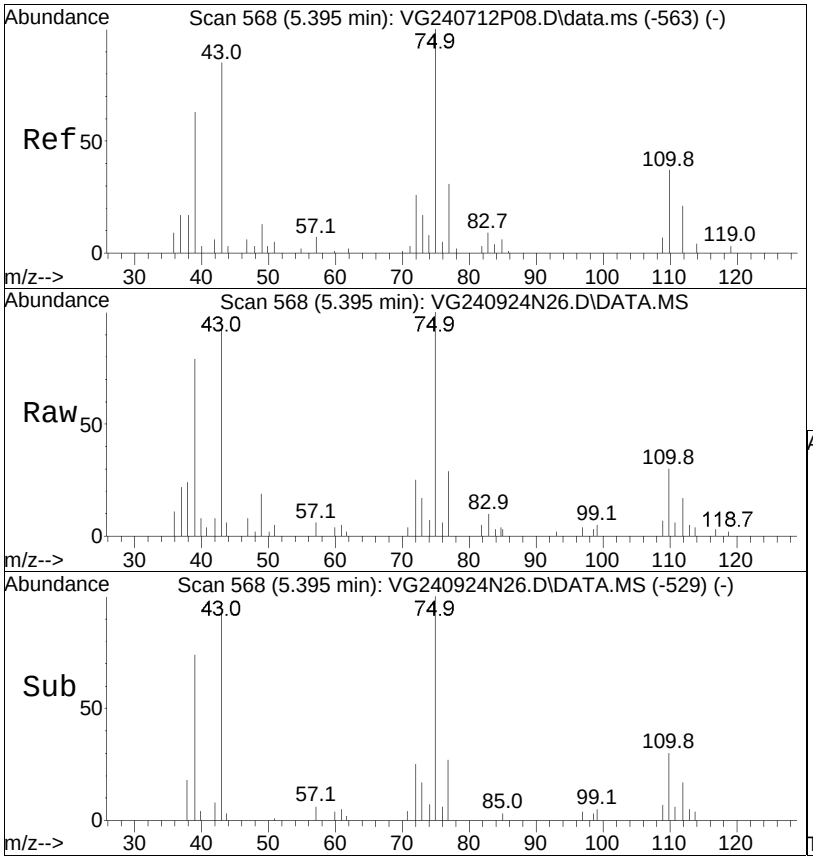


#37
1,1,1-Trichloroethane
Concen: 10.39 ug/L
RT: 5.296 min Scan# 555
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 97 Resp: 95472

Ion	Ratio	Lower	Upper
97	100		
99	65.1	41.3	85.7
61	47.8	26.0	54.0
63	15.0	8.6	18.0

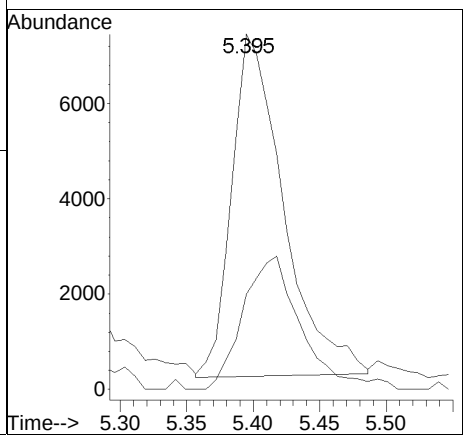


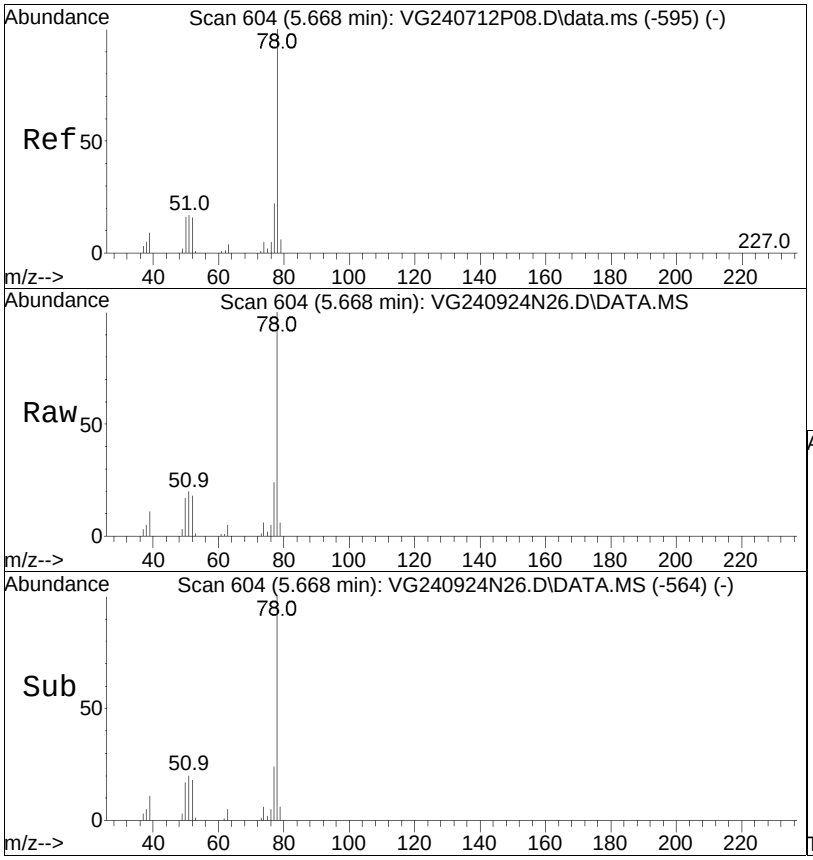


#39
2-Butanone
Concen: 10.35 ug/L
RT: 5.395 min Scan# 568
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 43 Resp: 19486

Ion	Ratio	Lower	Upper
43	100		
72	43.7	42.6	63.8

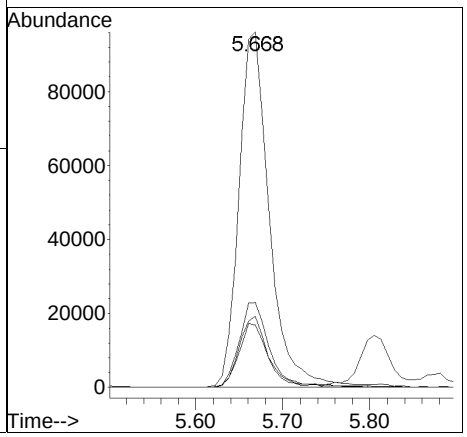


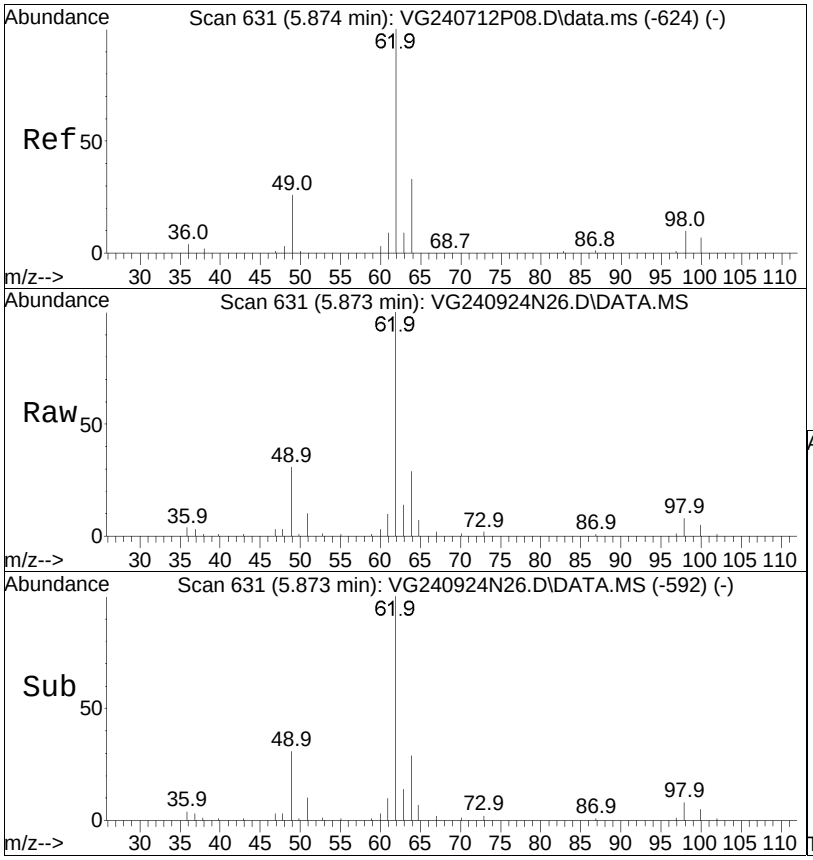


#41
Benzene
Concen: 10.54 ug/L
RT: 5.668 min Scan# 604
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 78 Resp: 234393

Ion	Ratio	Lower	Upper
78	100		
77	23.8	15.5	32.1
51	19.2	9.9	20.7
52	17.0	9.2	19.2

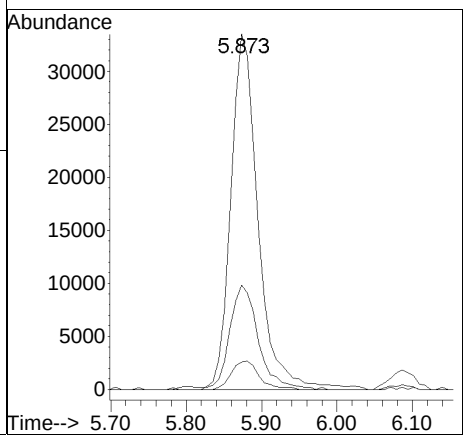


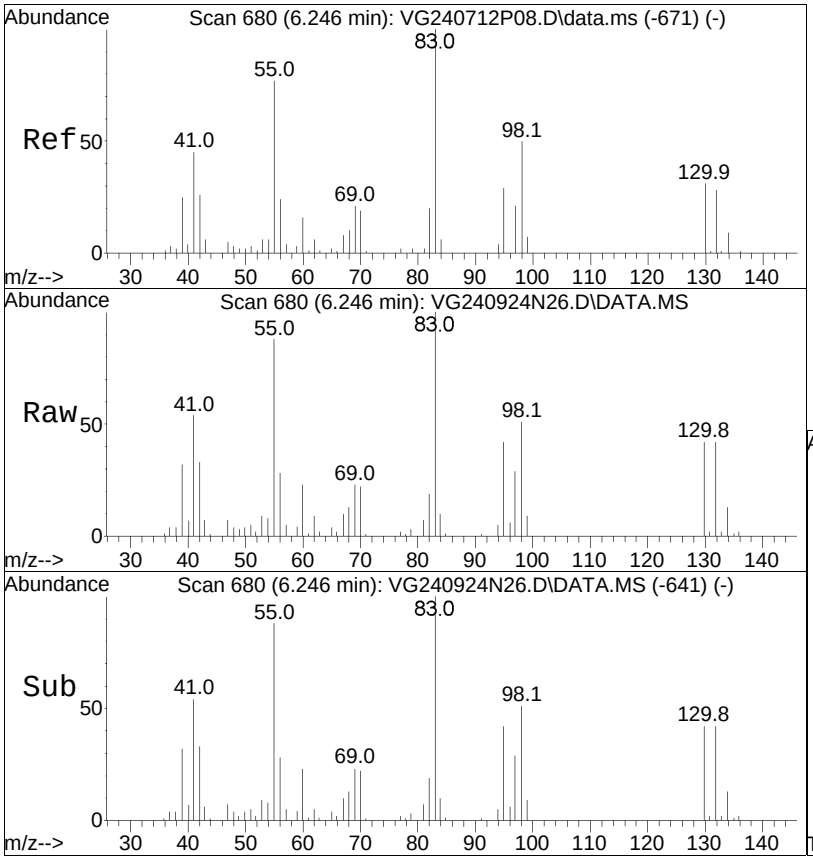


#44
1,2-Dichloroethane
Concen: 11.89 ug/L
RT: 5.873 min Scan# 631
Delta R.T. -0.001 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 62 Resp: 84266

Ion	Ratio	Lower	Upper
62	100		
64	30.6	11.9	51.9
98	8.2	0.0	29.3

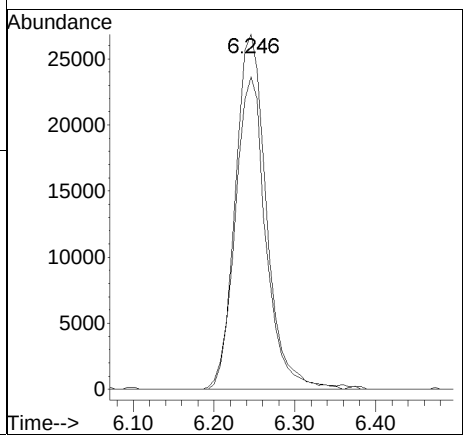


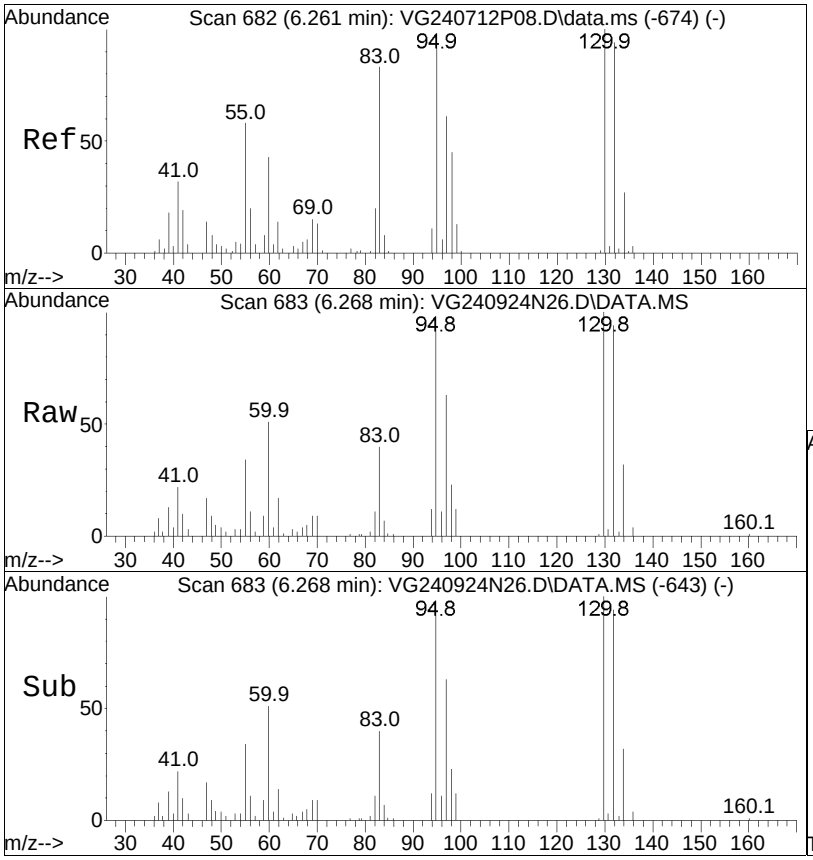


#47
Methyl cyclohexane
Concen: 8.37 ug/L
RT: 6.246 min Scan# 680
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 83 Resp: 72345

Ion	Ratio	Lower	Upper
83	100		
55	86.2	56.0	84.0#

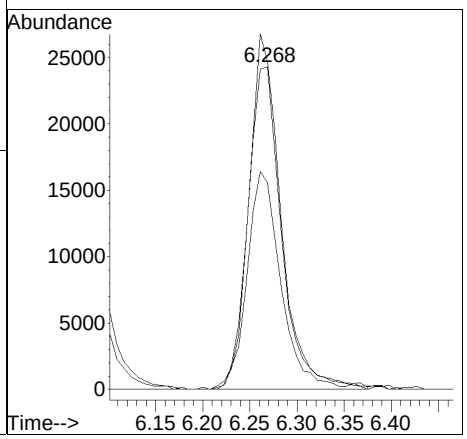


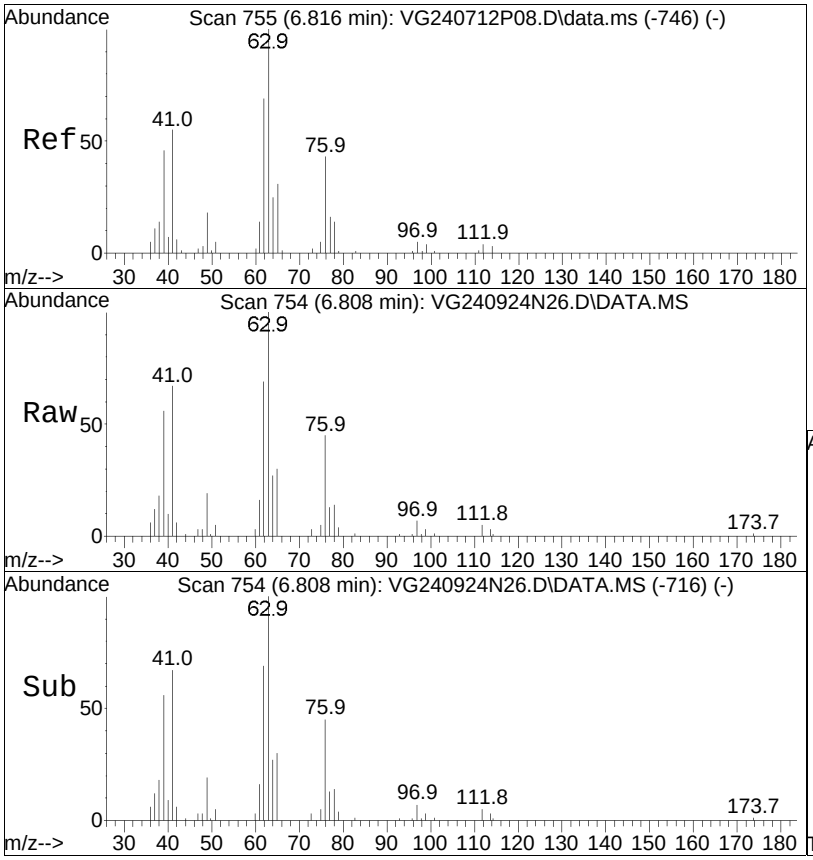


#48
Trichloroethene
Concen: 9.71 ug/L
RT: 6.268 min Scan# 683
Delta R.T. 0.007 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 95 Resp: 60877

Ion	Ratio	Lower	Upper
95	100		
97	67.4	54.0	81.0
130	104.7	85.0	127.4

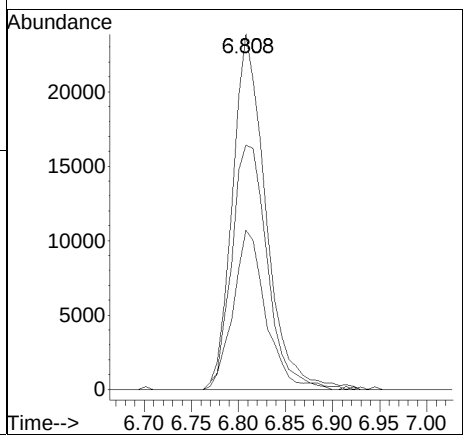


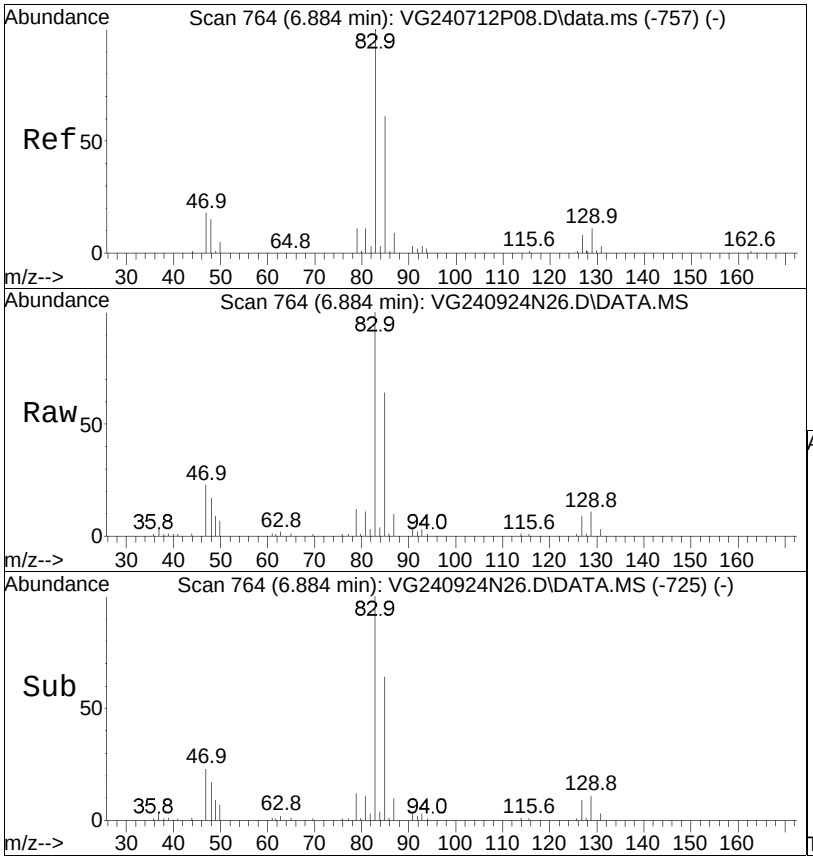


#51
1,2-Dichloropropane
Concen: 10.84 ug/L
RT: 6.808 min Scan# 754
Delta R.T. -0.008 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 63 Resp: 58854

Ion	Ratio	Lower	Upper
63	100		
62	73.7	56.5	84.7
76	43.8	34.6	52.0

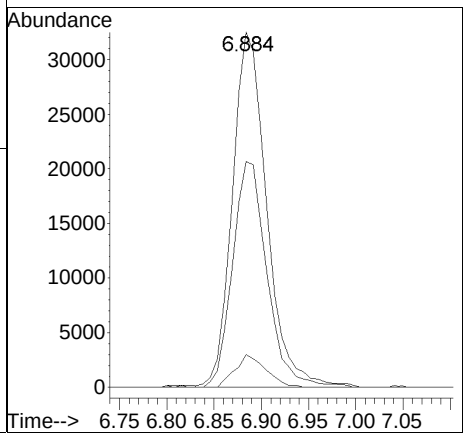


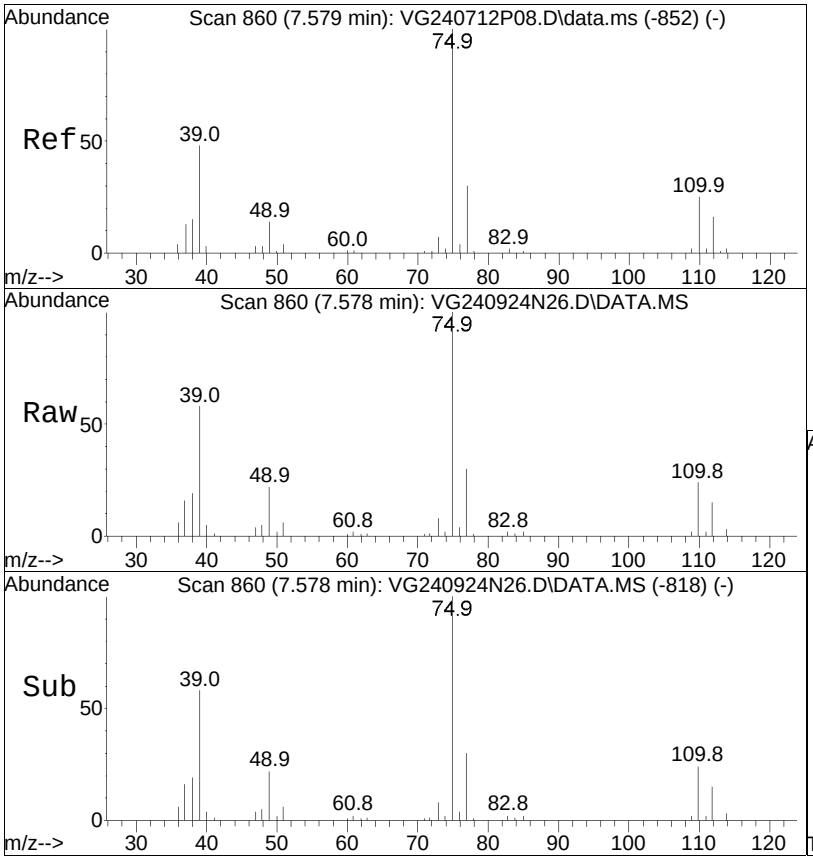


#54
Bromodichloromethane
Concen: 10.36 ug/L
RT: 6.884 min Scan# 764
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 83 Resp: 82081

Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.8	76.2
127	8.4	7.4	11.2

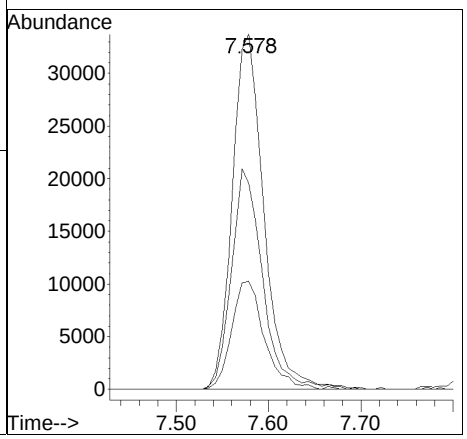


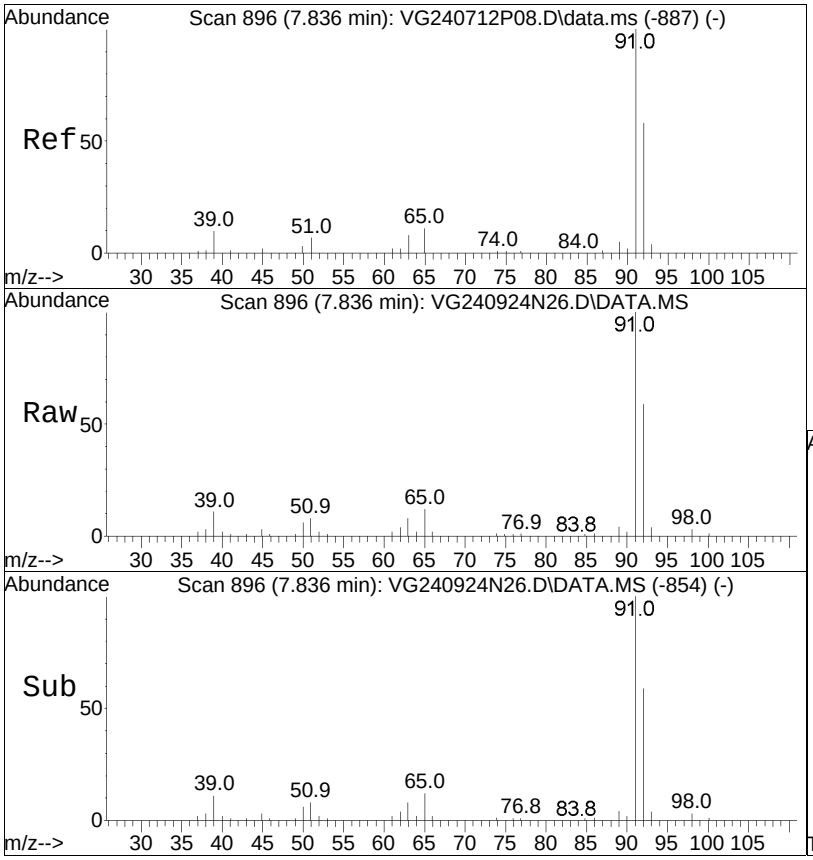


#58
cis-1,3-Dichloropropene
Concen: 9.08 ug/L
RT: 7.578 min Scan# 860
Delta R.T. -0.001 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 75 Resp: 80439

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.6	36.8
39	61.2	40.8	61.2#

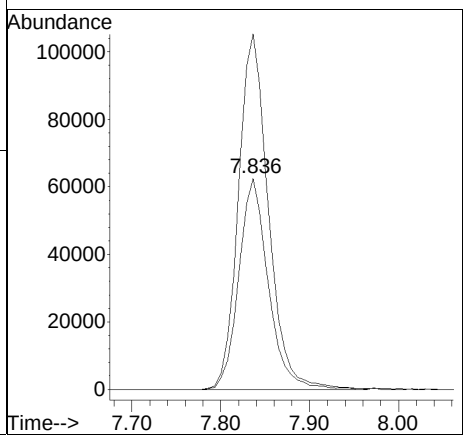


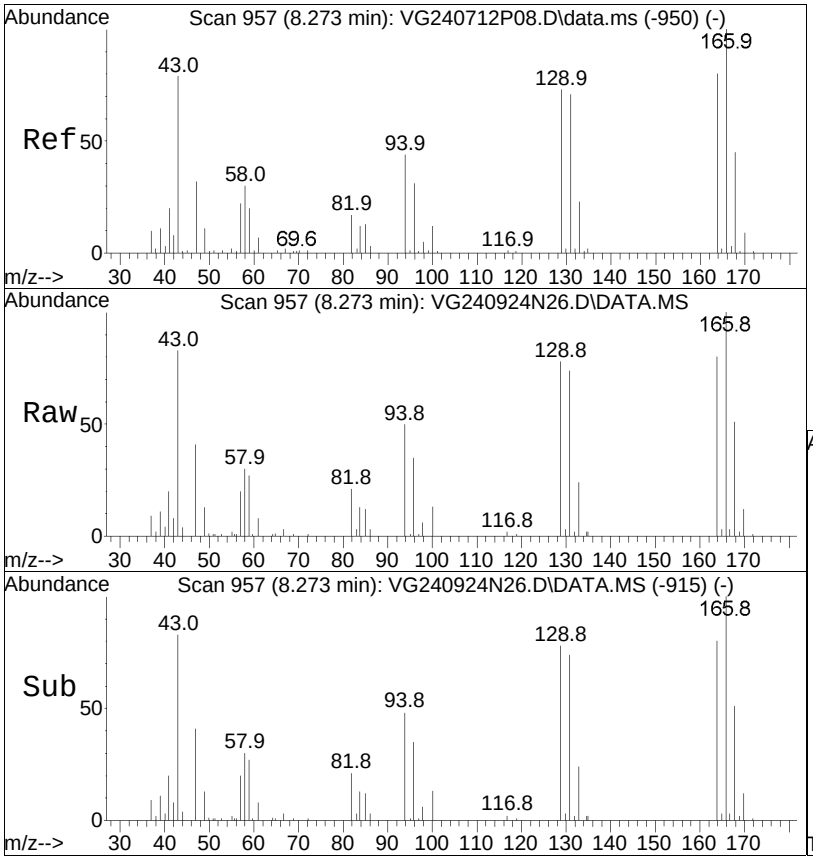


#61
Toluene
Concen: 10.36 ug/L
RT: 7.836 min Scan# 896
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 92 Resp: 144404

Ion	Ratio	Lower	Upper
92	100		
91	170.6	134.8	202.2

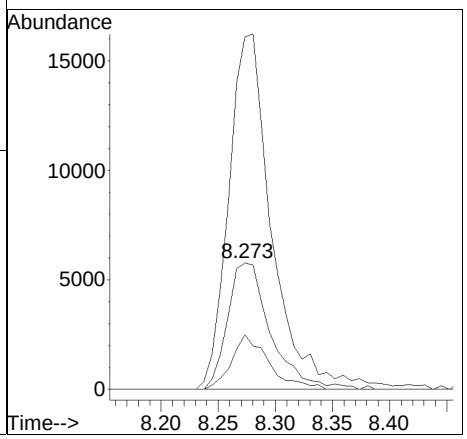


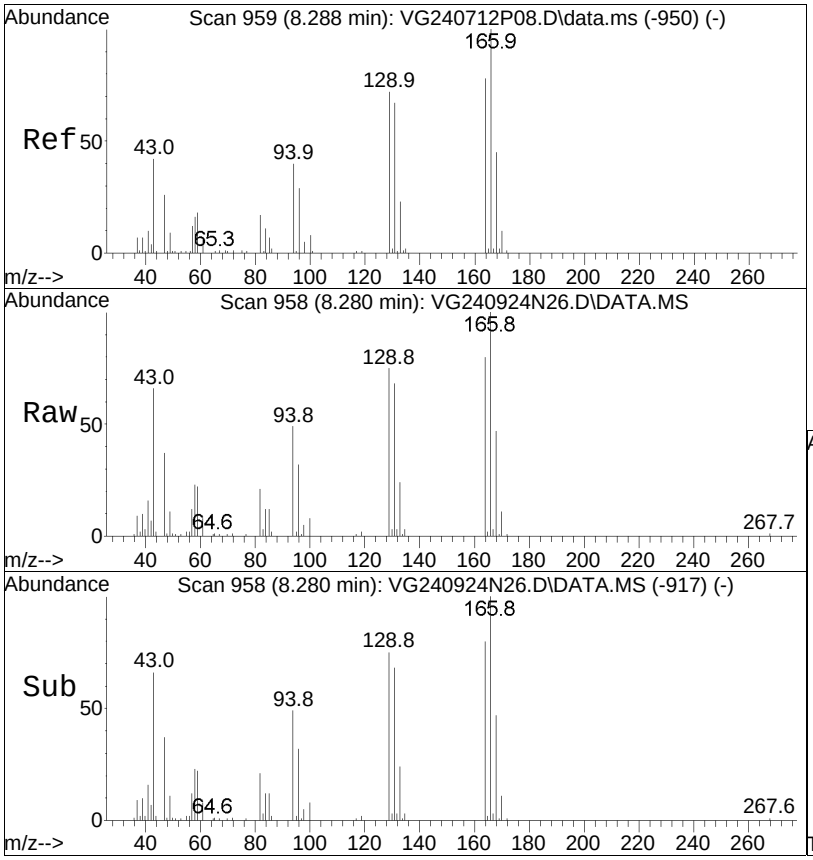


#62
4-Methyl-2-pentanone
Concen: 9.86 ug/L
RT: 8.273 min Scan# 957
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 58 Resp: 15158

Ion	Ratio	Lower	Upper
58	100		
100	37.5	33.6	50.4
43	283.0	204.3	306.5

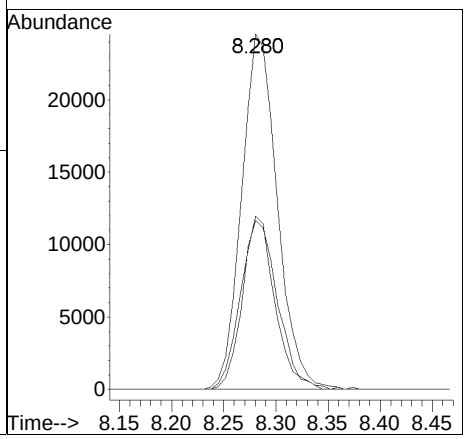


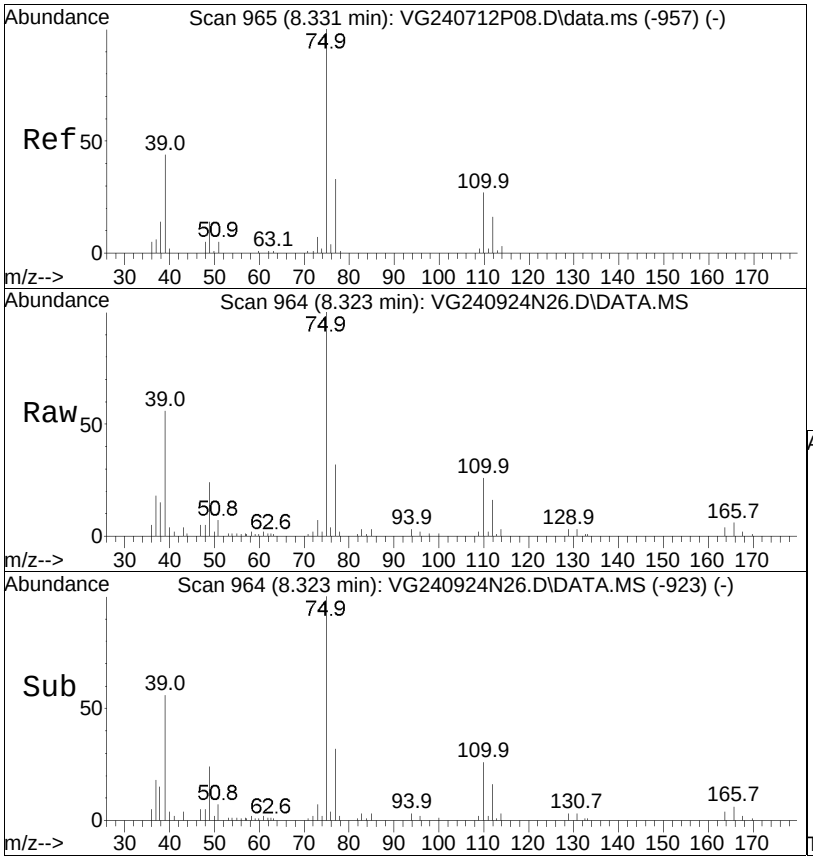


#63
Tetrachloroethene
Concen: 9.54 ug/L
RT: 8.280 min Scan# 958
Delta R.T. -0.008 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:166 Resp: 58386

Ion	Ratio	Lower	Upper
166	100		
168	46.8	27.3	67.3
94	46.8	20.5	60.5

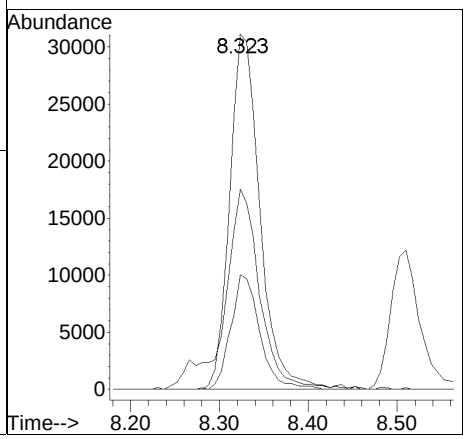


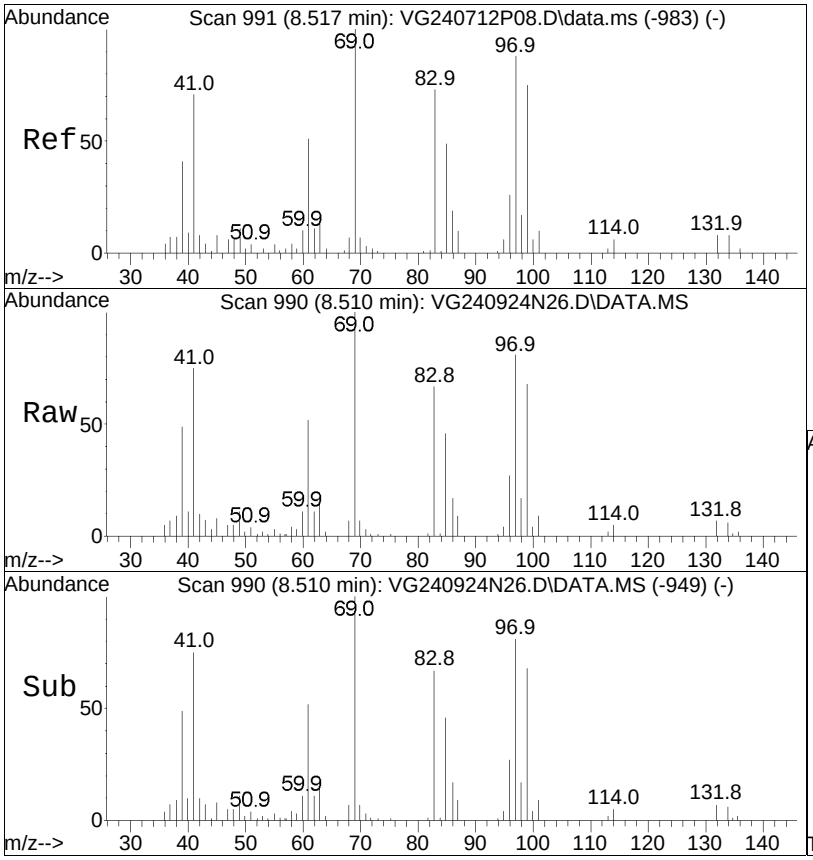


#65
trans-1,3-Dichloropropene
Concen: 9.67 ug/L
RT: 8.323 min Scan# 964
Delta R.T. -0.008 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 75 Resp: 73821

Ion	Ratio	Lower	Upper
75	100		
77	31.0	11.3	51.3
39	65.5	36.0	76.0

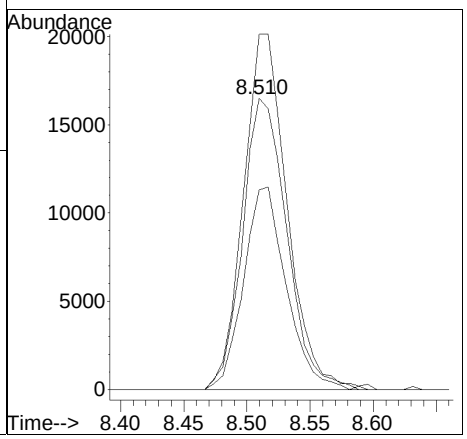


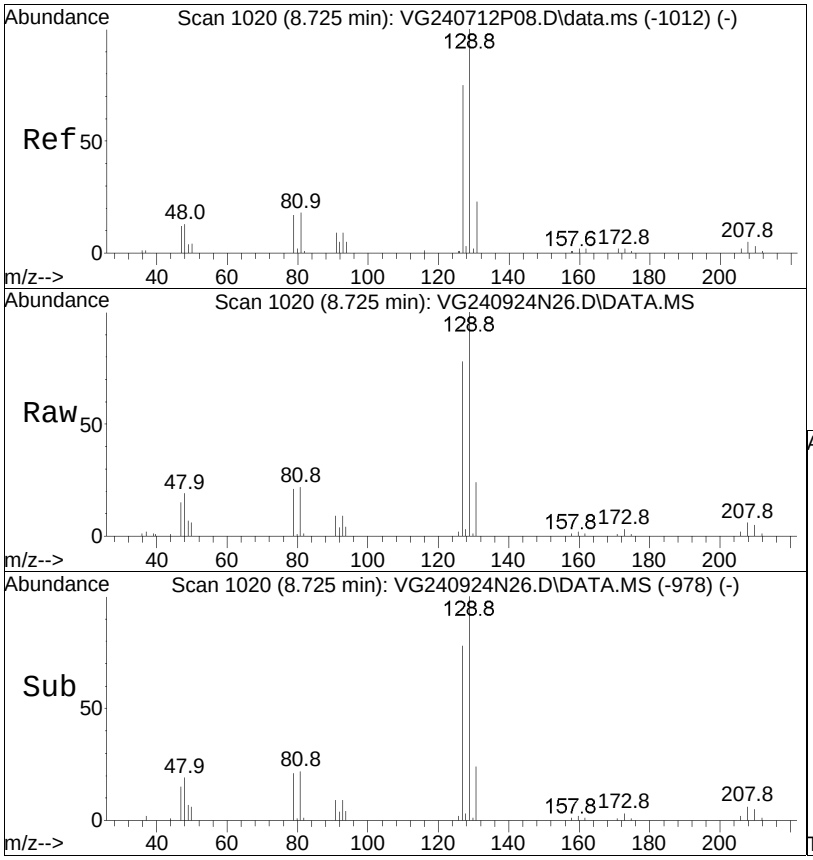


#68
1,1,2-Trichloroethane
Concen: 10.51 ug/L
RT: 8.510 min Scan# 990
Delta R.T. -0.007 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 83 Resp: 40182

Ion	Ratio	Lower	Upper
83	100		
97	120.7	101.0	141.0
85	67.3	47.9	87.9

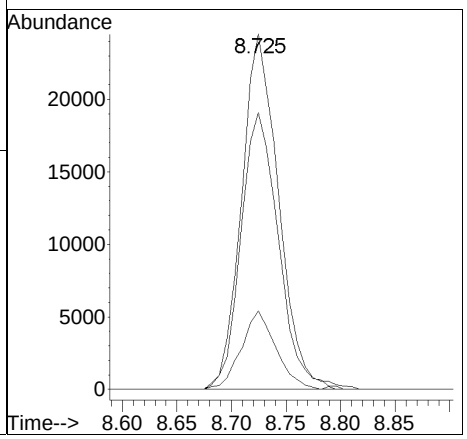


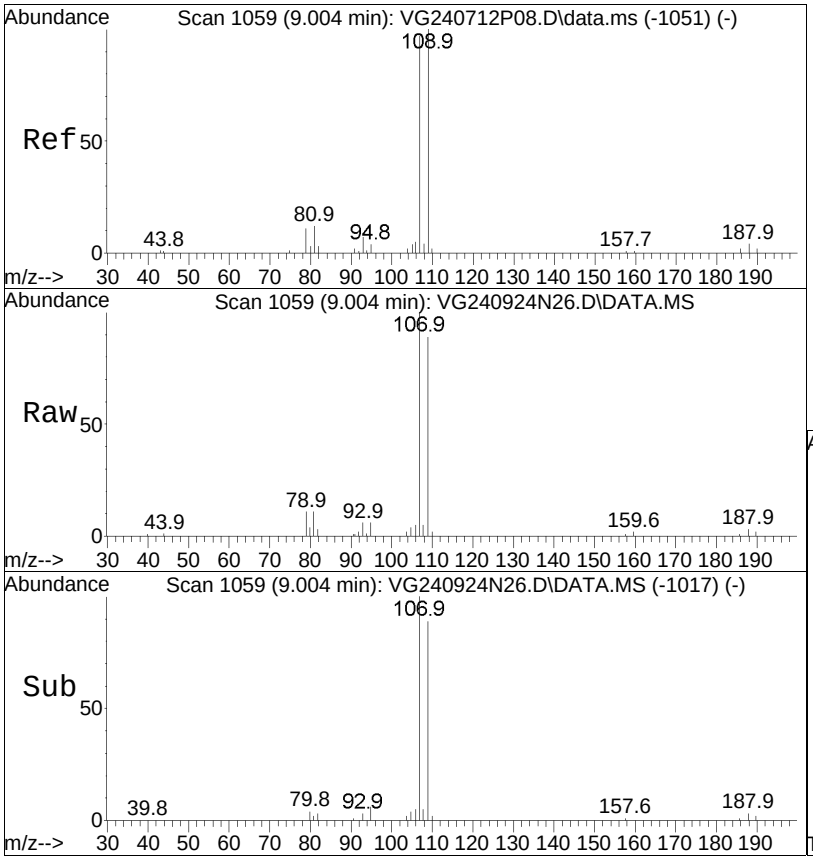


#69
Chlorodibromomethane
Concen: 9.59 ug/L
RT: 8.725 min Scan# 1020
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:129 Resp: 58002

Ion	Ratio	Lower	Upper
129	100		
81	20.8	0.0	35.0
127	78.7	57.1	97.1

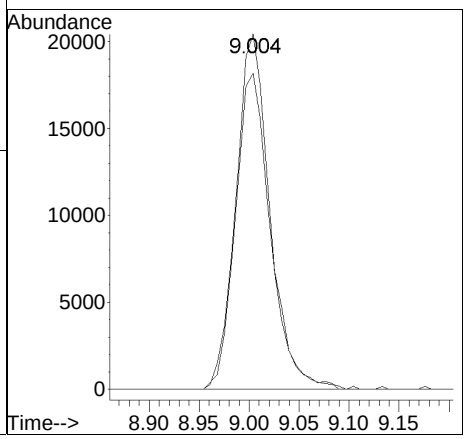


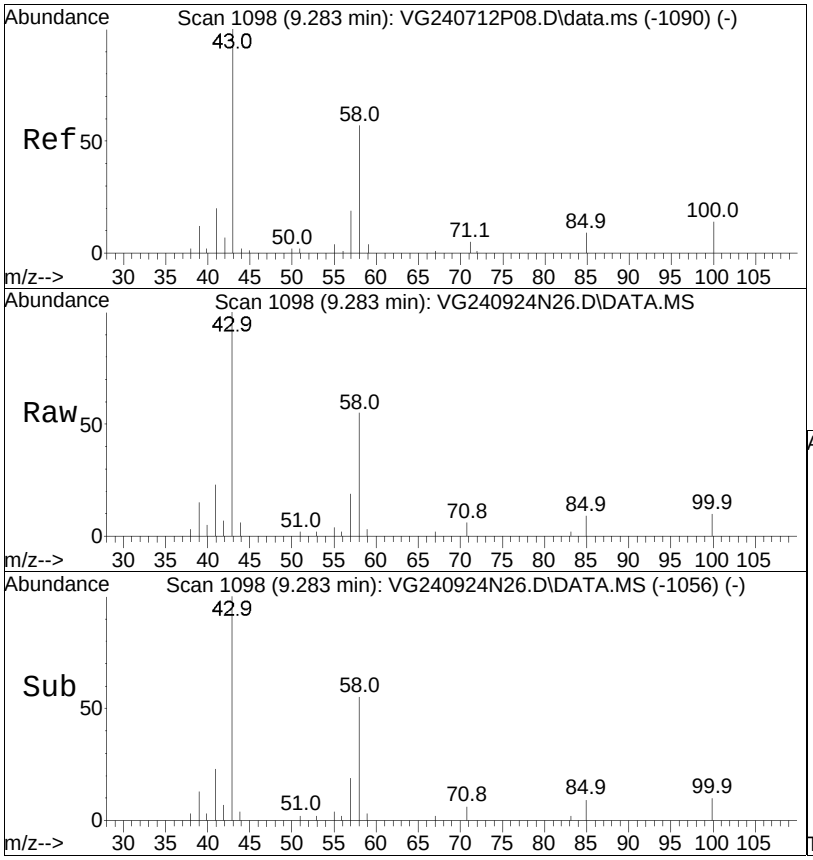


#71
1,2-Dibromoethane
Concen: 10.03 ug/L
RT: 9.004 min Scan# 1059
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:107 Resp: 48669

Ion	Ratio	Lower	Upper
107	100		
109	91.0	76.0	114.0

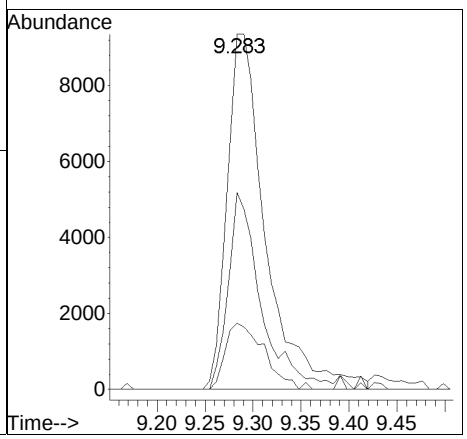


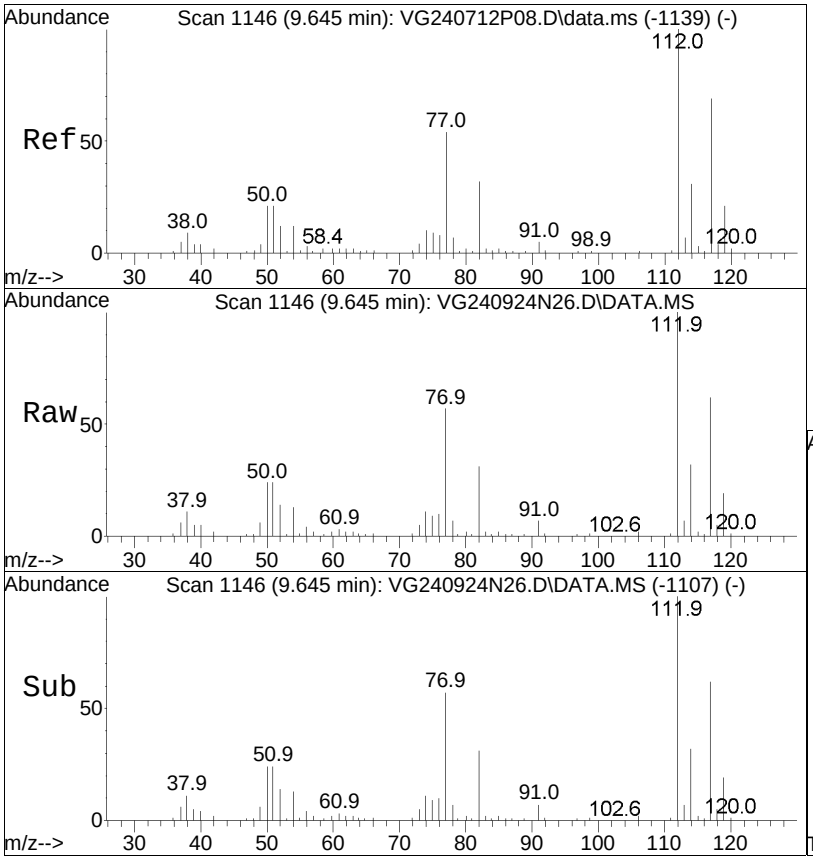


#72
2-Hexanone
Concen: 9.22 ug/L
RT: 9.283 min Scan# 1098
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 43 Resp: 26265

Ion	Ratio	Lower	Upper
43	100		
58	47.1	43.8	65.6
57	18.8	15.2	22.8

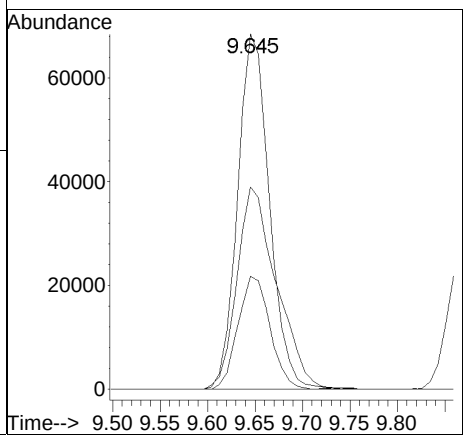


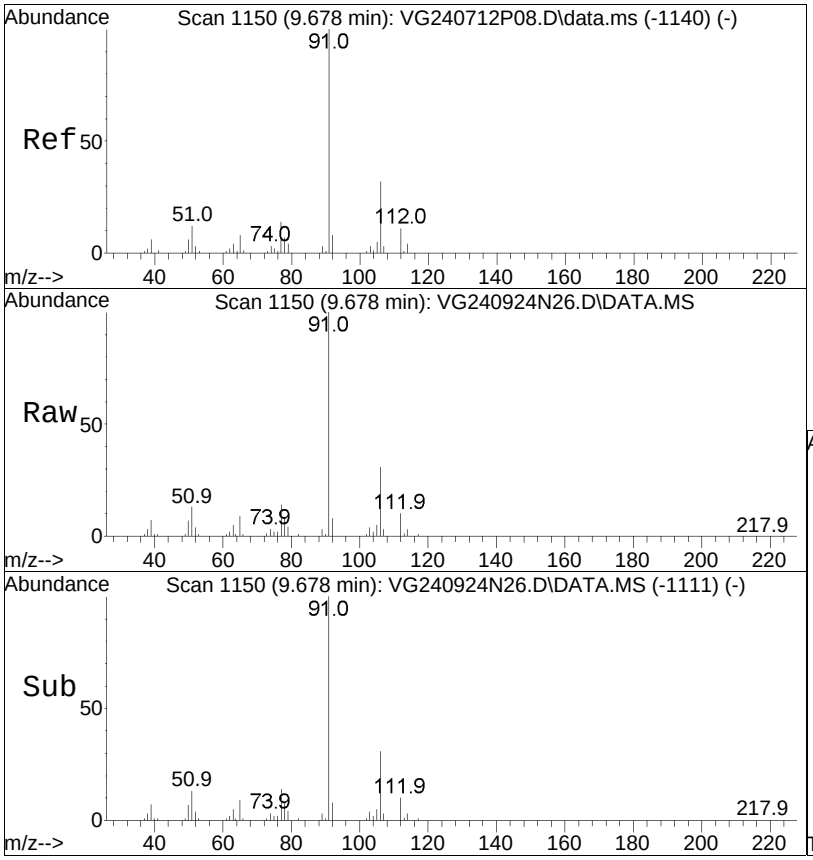


#73
Chlorobenzene
Concen: 10.25 ug/L
RT: 9.645 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:112 Resp: 159293

Ion	Ratio	Lower	Upper
112	100		
77	71.1	55.9	83.9
114	32.2	25.4	38.0

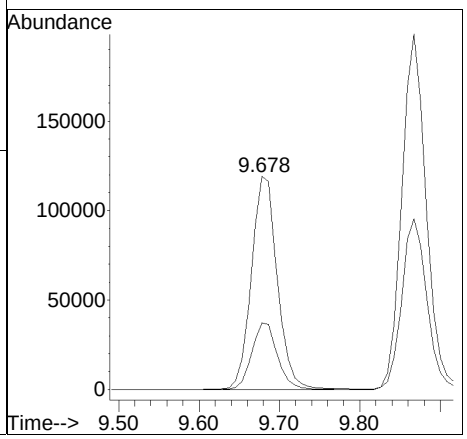


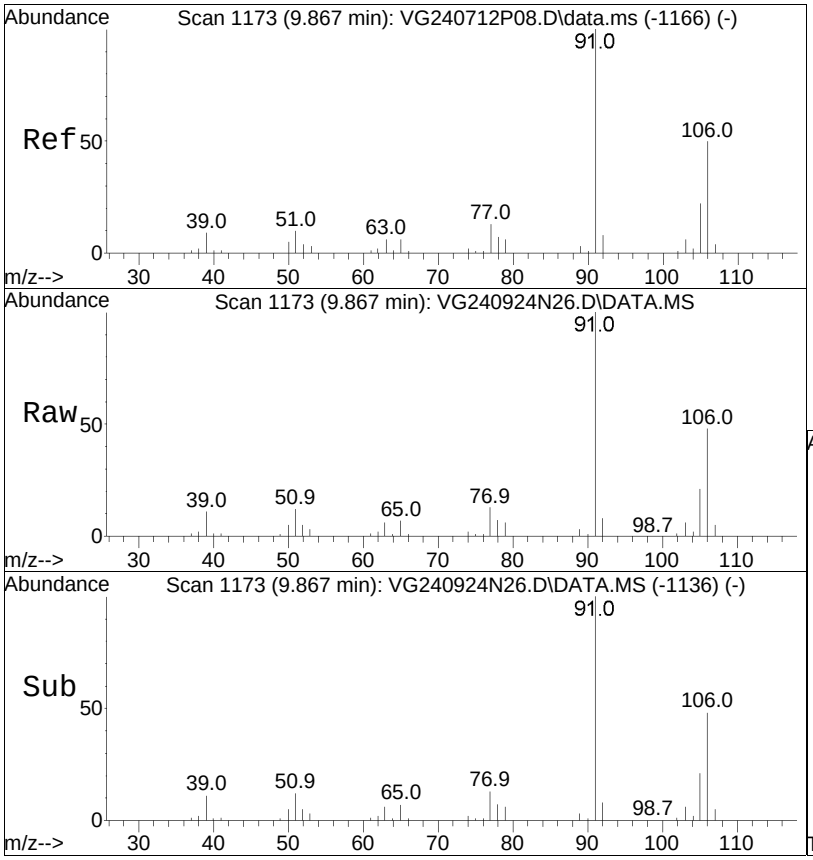


#74
Ethylbenzene
Concen: 10.03 ug/L
RT: 9.678 min Scan# 1150
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 91 Resp: 266952

Ion	Ratio	Lower	Upper
91	100		
106	30.7	25.3	37.9

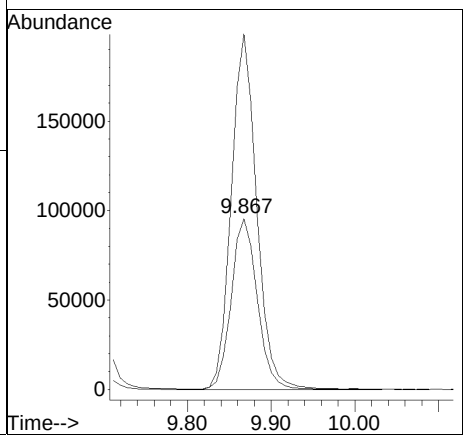


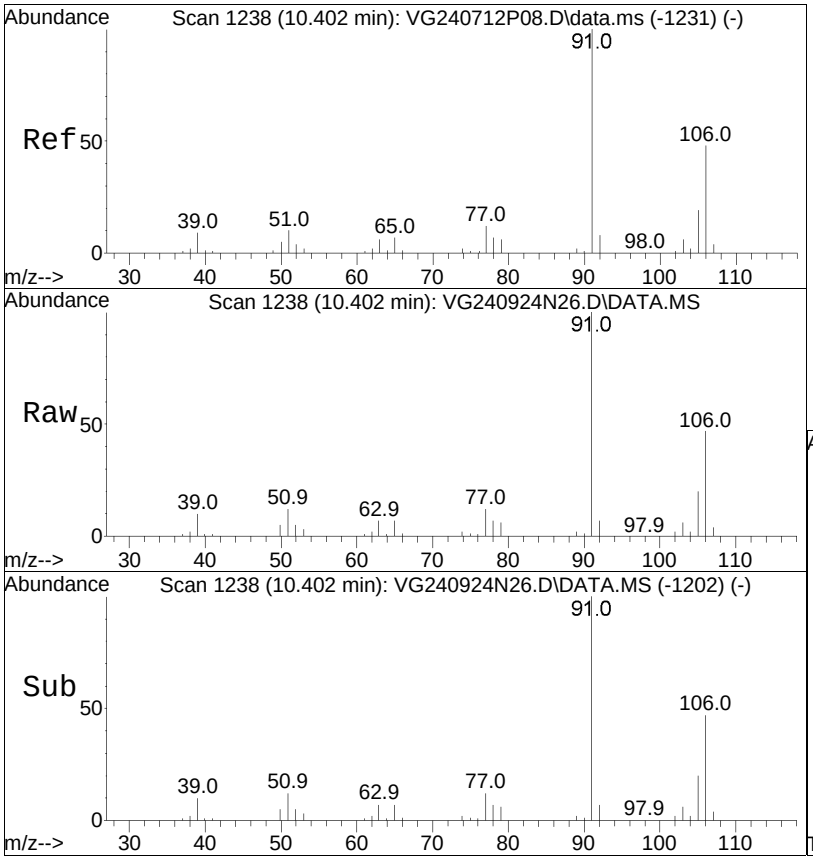


#76
p/m Xylene
Concen: 19.65 ug/L
RT: 9.867 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:106 Resp: 206770

Ion	Ratio	Lower	Upper
106	100		
91	201.5	157.1	235.7

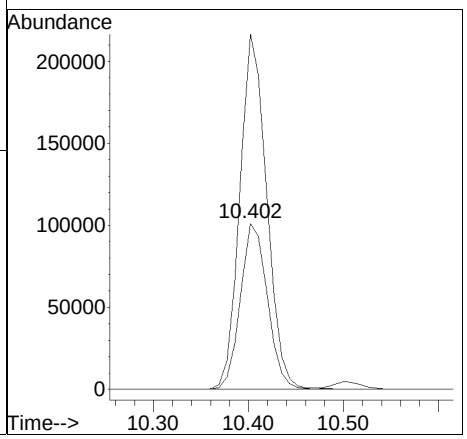


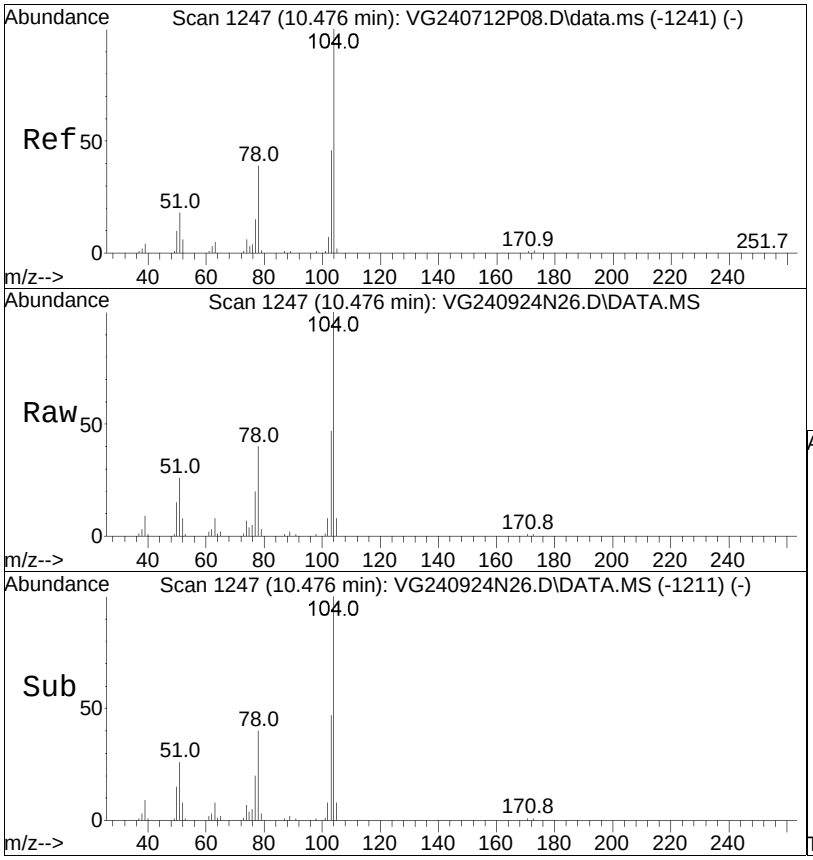


#77
o Xylene
Concen: 19.74 ug/L
RT: 10.402 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:106 Resp: 201236

Ion	Ratio	Lower	Upper
106	100		
91	211.4	164.7	247.1

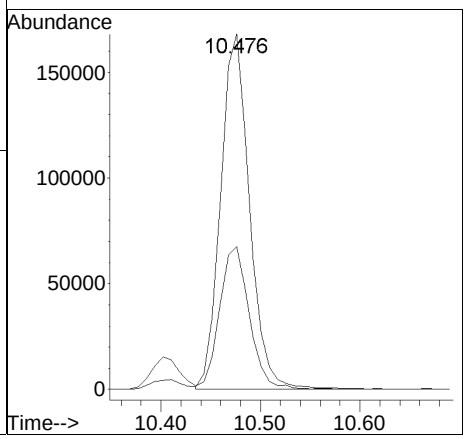


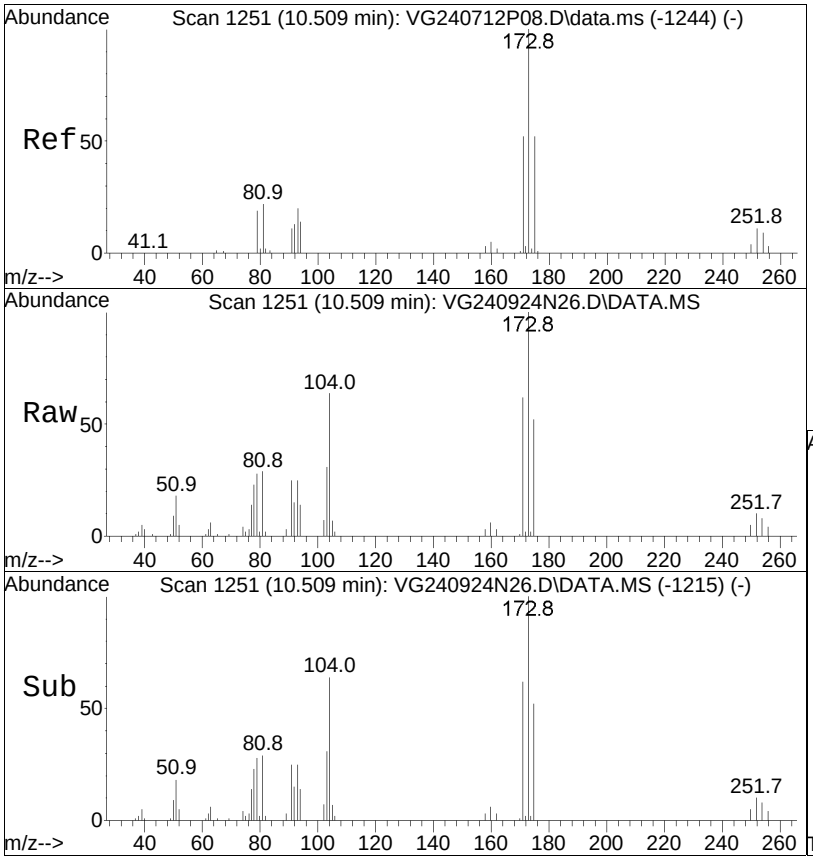


#78
Styrene
Concen: 19.57 ug/L
RT: 10.476 min Scan# 1247
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:104 Resp: 338114

Ion	Ratio	Lower	Upper
104	100		
78	41.6	32.2	48.4

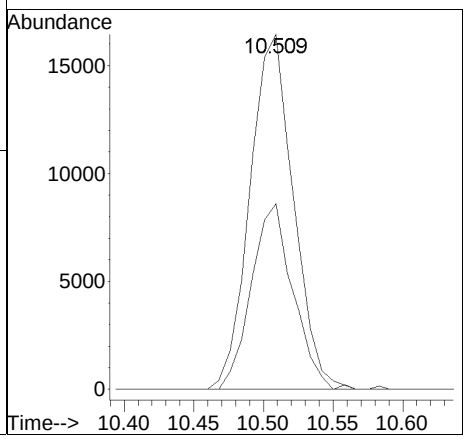


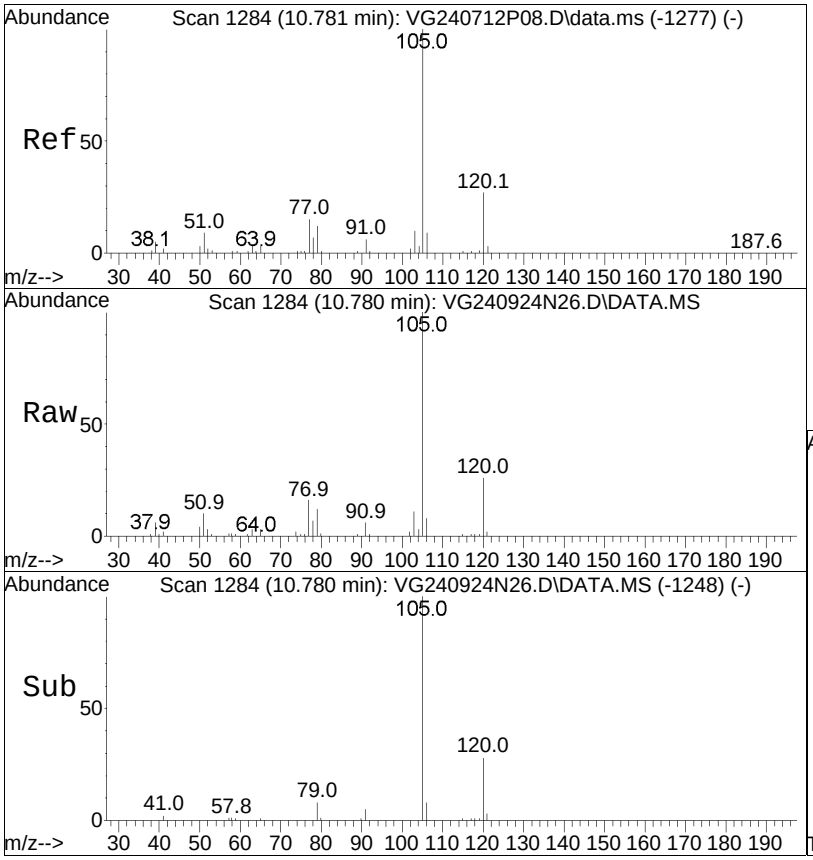


#80
Bromoform
Concen: 8.45 ug/L
RT: 10.509 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:173 Resp: 35733

Ion	Ratio	Lower	Upper
173	100		
175	50.2	28.0	68.0

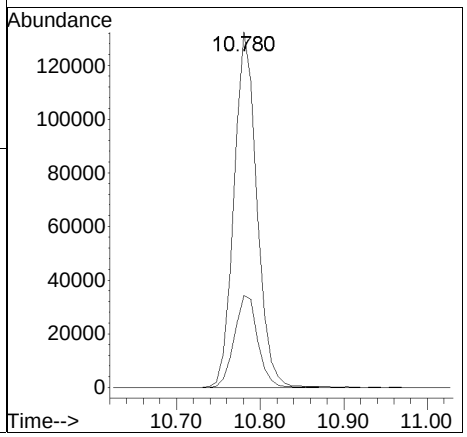


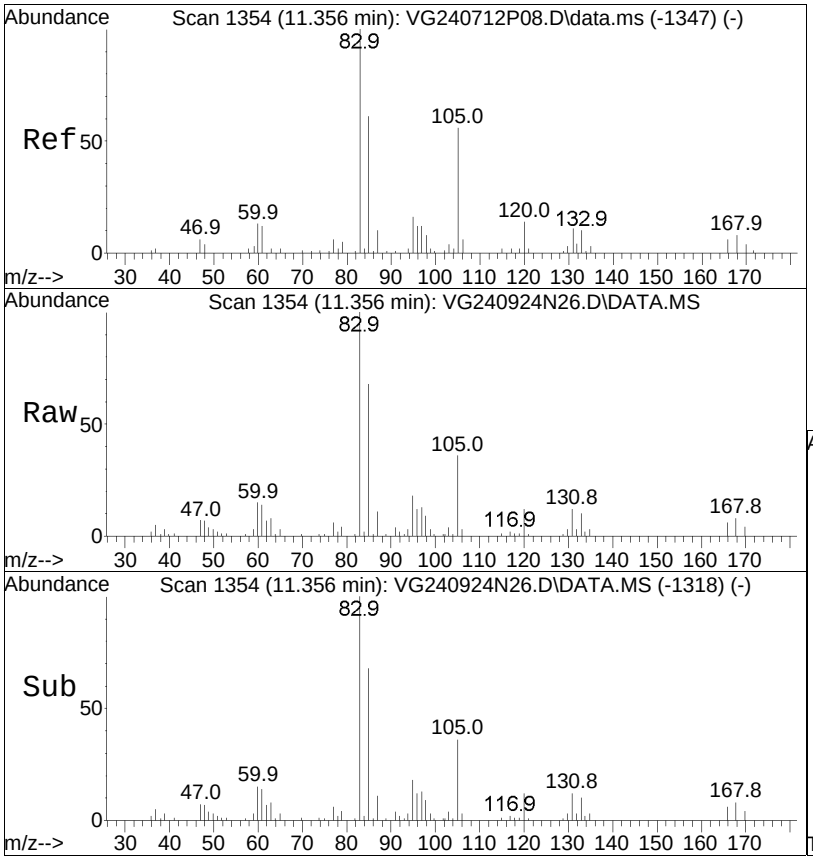


#82
Isopropylbenzene
Concen: 9.44 ug/L
RT: 10.780 min Scan# 1284
Delta R.T. -0.001 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:105 Resp: 251921

Ion	Ratio	Lower	Upper
105	100		
120	26.3	7.0	47.0

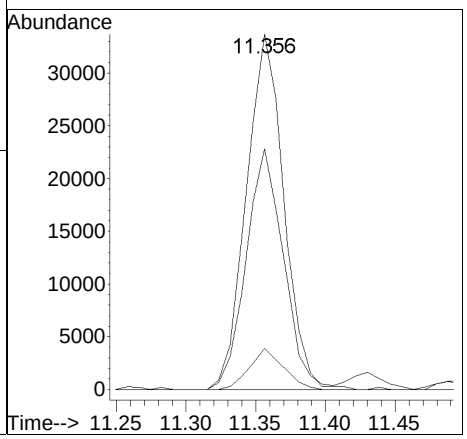


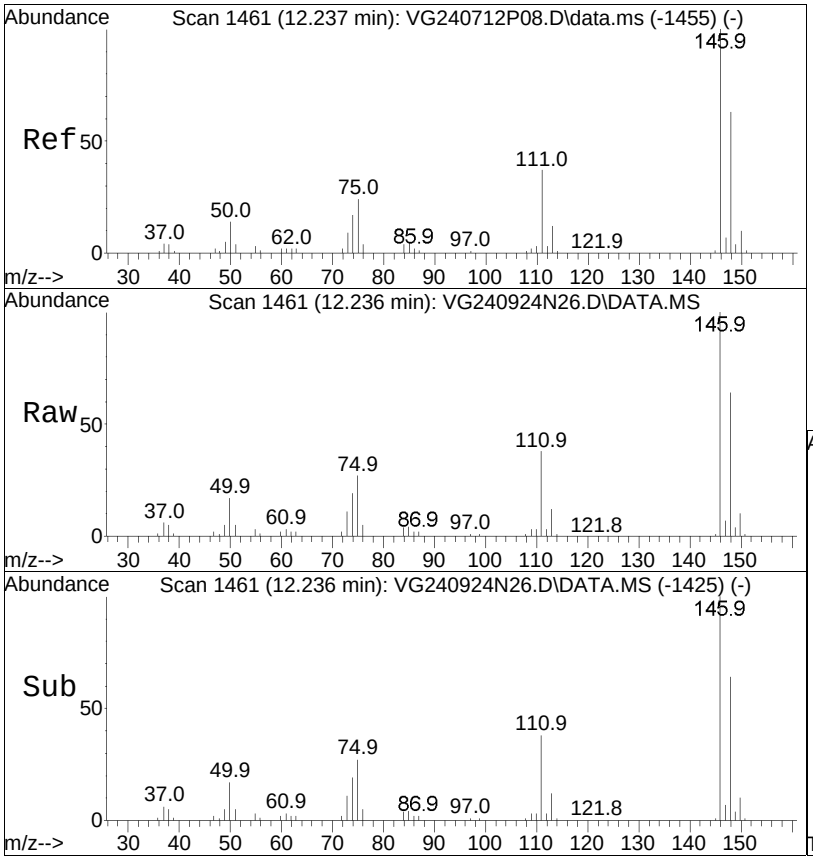


#87
1,1,2,2-Tetrachloroethane
Concen: 10.62 ug/L
RT: 11.356 min Scan# 1354
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion: 83 Resp: 63011

Ion	Ratio	Lower	Upper
83	100		
131	10.4	0.0	31.0
85	67.6	43.9	83.9

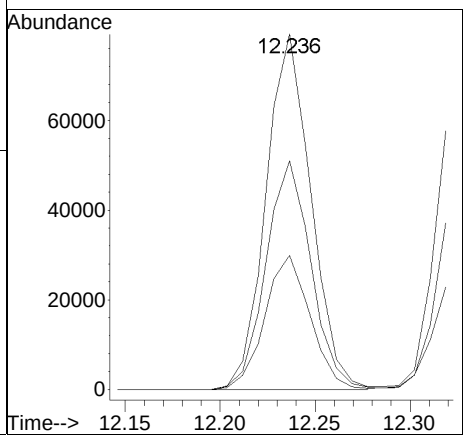


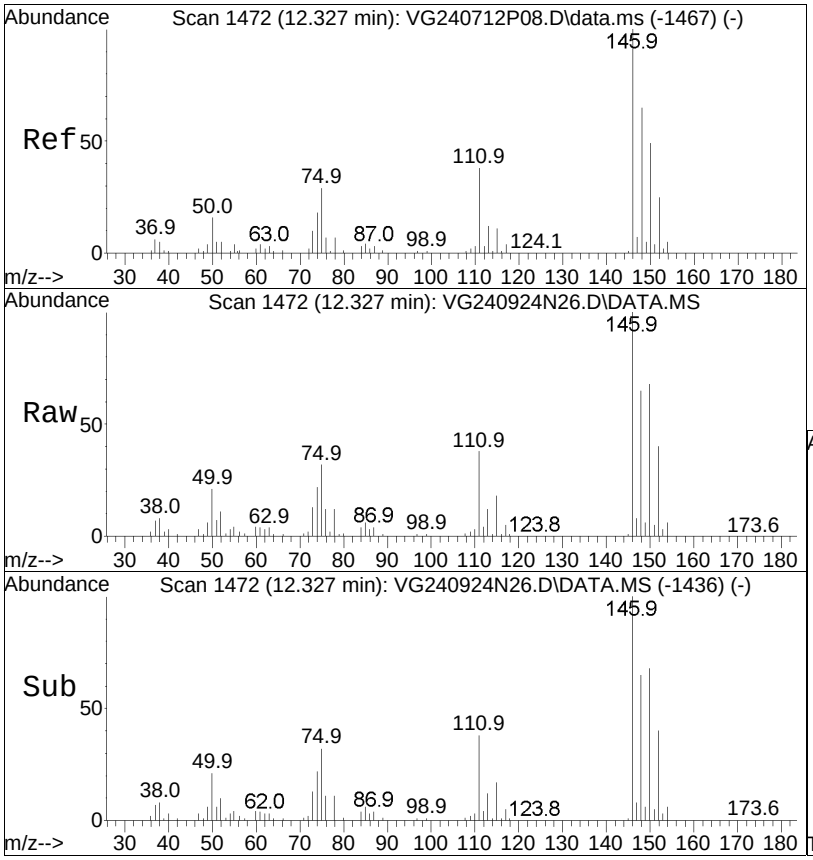


#100
1,3-Dichlorobenzene
Concen: 9.61 ug/L
RT: 12.236 min Scan# 1461
Delta R.T. -0.001 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:146 Resp: 130322

Ion	Ratio	Lower	Upper
146	100		
111	38.1	24.4	50.6
148	64.7	41.0	85.2

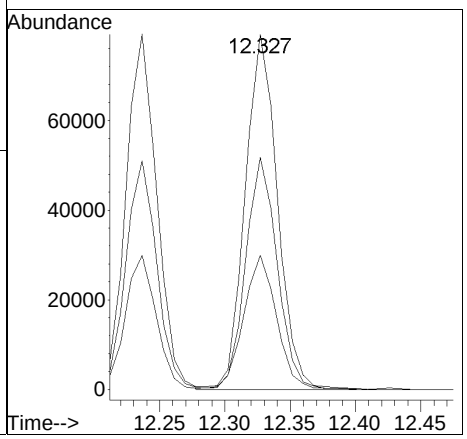


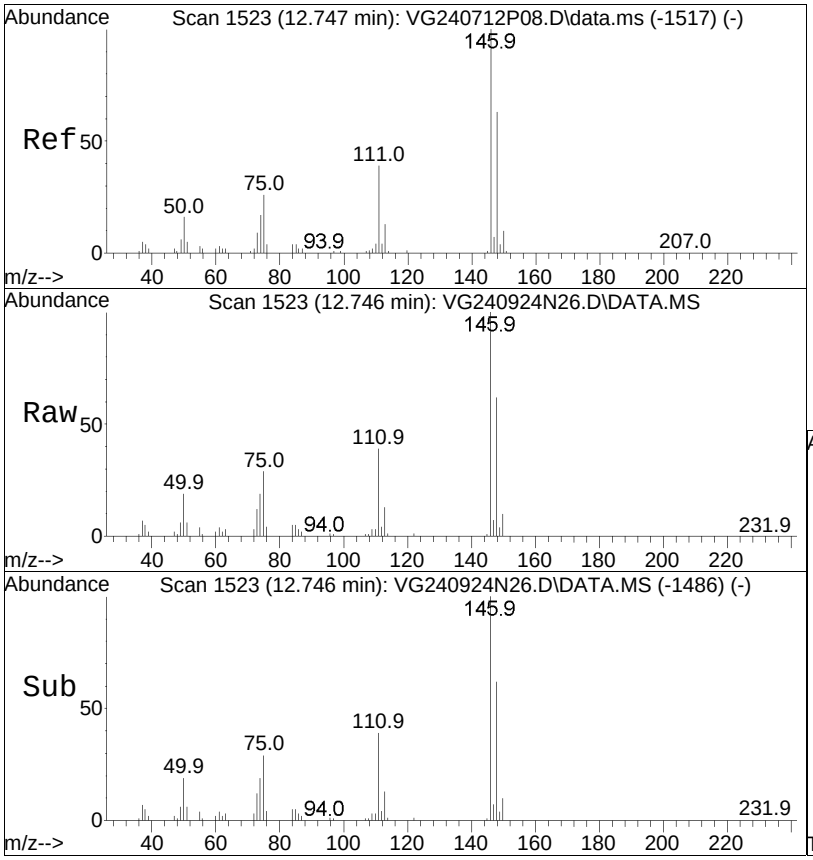


#101
1,4-Dichlorobenzene
Concen: 9.78 ug/L
RT: 12.327 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:146 Resp: 136519

Ion	Ratio	Lower	Upper
146	100		
111	38.6	29.3	43.9
148	63.8	51.2	76.8

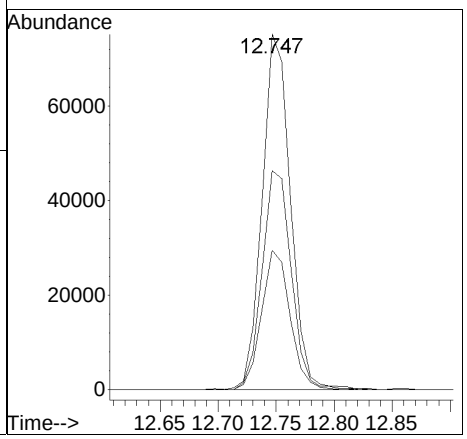


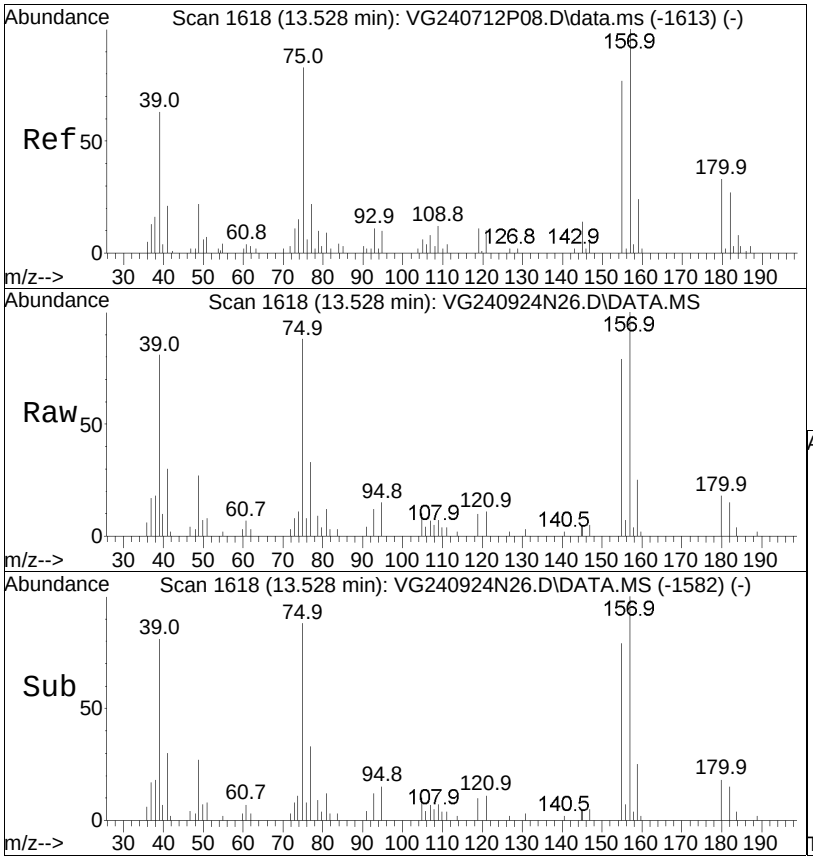


#104
1,2-Dichlorobenzene
Concen: 9.82 ug/L
RT: 12.746 min Scan# 1523
Delta R.T. -0.001 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:146 Resp: 127024

Ion	Ratio	Lower	Upper
146	100		
111	39.4	25.4	52.8
148	63.6	41.7	86.5

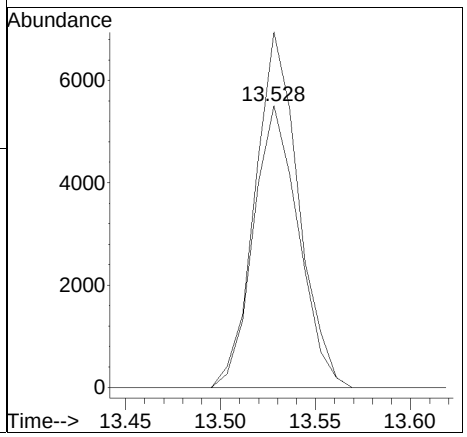


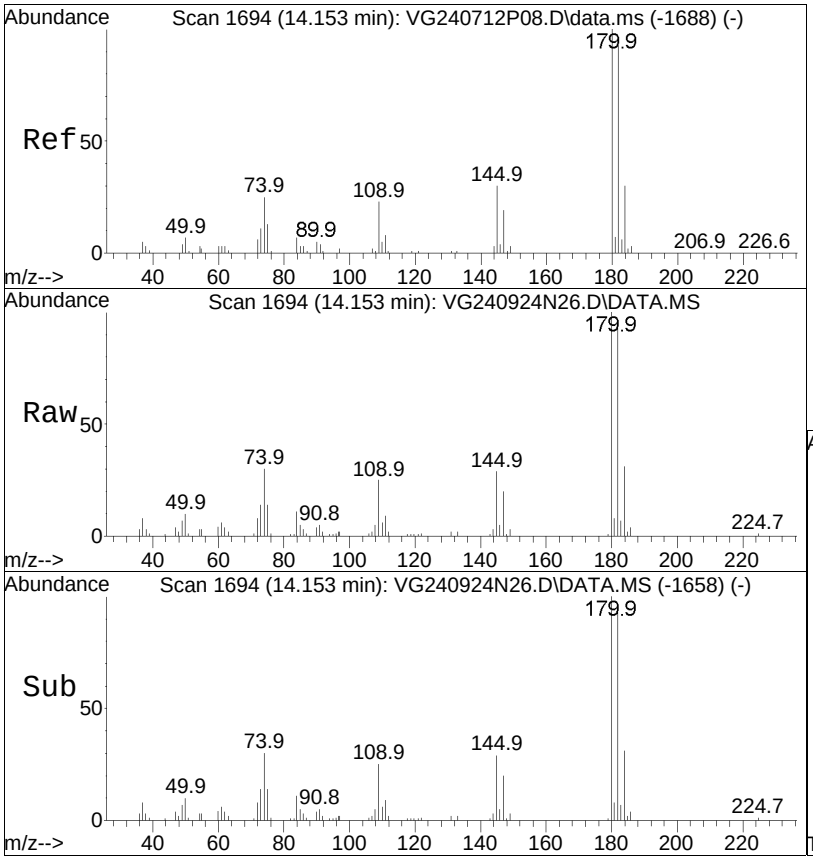


#106
1,2-Dibromo-3-chloropropane
Concen: 8.26 ug/L
RT: 13.528 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:155 Resp: 9083

Ion	Ratio	Lower	Upper
155	100		
157	121.8	99.9	149.9

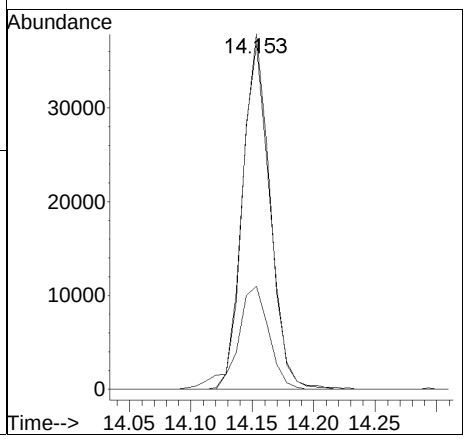


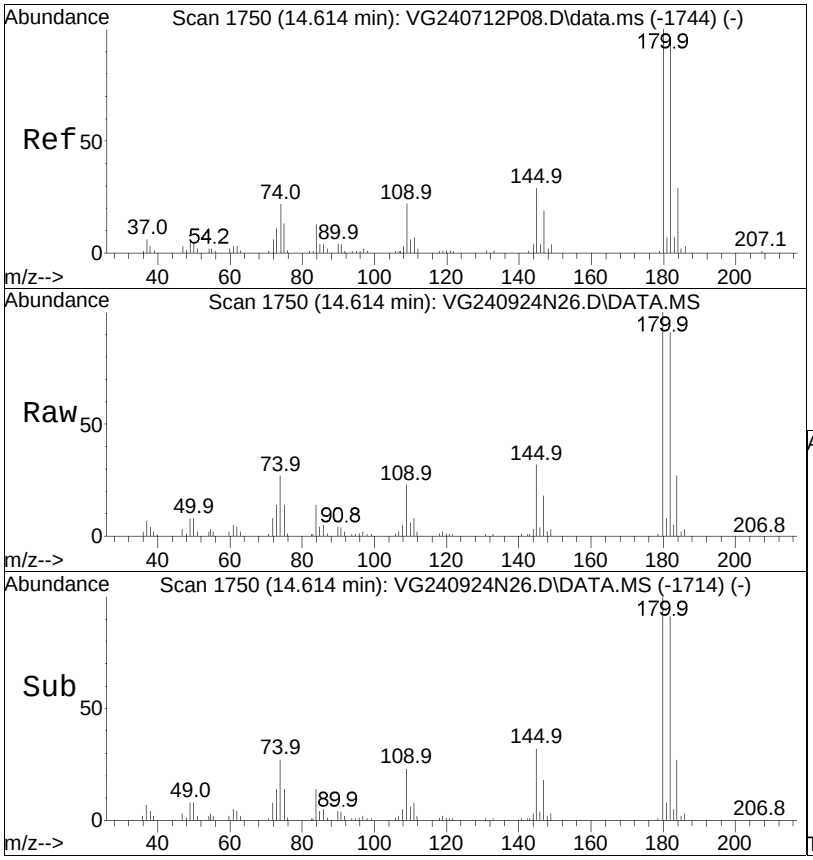


#109
1,2,4-Trichlorobenzene
Concen: 8.00 ug/L
RT: 14.153 min Scan# 1694
Delta R.T. 0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:180 Resp: 58963

Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.7	115.1
145	33.7	26.5	39.7

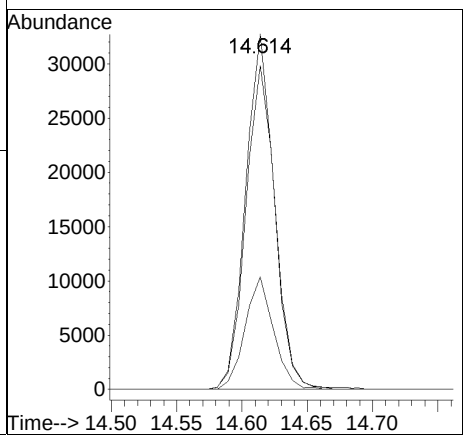




#111
1,2,3-Trichlorobenzene
Concen: 8.21 ug/L
RT: 14.614 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VG240924N26.D
Acq: 25 Sep 2024 5:12 am

Tgt Ion:180 Resp: 50309

Ion	Ratio	Lower	Upper
180	100		
182	92.5	77.0	115.4
145	31.5	24.1	36.1



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 25 2024, 03:16 pm

Work Group: WG1976114 for Department: 31 GC/MS - Volatiles

Created: 25-SEP-24 Due: Operator: mjv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453613-07	MW-4B-20240918	S	NYTCL-8260-R2	WATER	DONE	U	1002	0925	S0	Vial-B
L2453720-01	MW-8S	S	NYTCL-8260	WATER	DONE	U	1002	0925	S0	Vial-B
L2453720-02	MW-8D	S	NYTCL-8260	WATER	DONE	U	1002	0925	S0	Vial-B
L2453720-03	DUP_091824	S	NYTCL-8260	WATER	DONE	U	1002	0925	S0	Vial-B
L2453720-04	EQUIPMENT BLANK	S	NYTCL-8260	WATER	DONE	U	1002	0925	S0	Vial-B
L2453720-05	TRIP BLANK	S	NYTCL-8260	WATER	DONE	U	1002	0925	S0	Vial-B
L2453720-06	MW-5D	S	NYTCL-8260	WATER	DONE	U	1002	0925	S0	Vial-B
L2453720-07	PZ-5	S	NYTCL-8260	WATER	DONE	U	1002	0925	S0	Vial-B
L2453720-08	MW-12S	S	NYTCL-8260	WATER	DONE	U	1002	0925	S0	Vial-B
L2453720-09	MW-12D	S	NYTCL-8260	WATER	DONE	U	1002	0925	S0	Vial-B
L2453879-01	20747-20821 ST LAWRENCE PARK RD.	S	NYTCL-8260-R2	WATER	SEC	U	0926	0926	S0	Vial-B
WG1976114-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1976114-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1976114-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1976114-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1976114-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1976114-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1976114-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1976114-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1976114-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1976114-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1976114-6	Matrix Spike	S	NYTCL-8260	WATER	DONE	U				
WG1976114-6	Matrix Spike	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1976114-7	Matrix Spike Duplica	S	NYTCL-8260	WATER	DONE	U				
WG1976114-7	Matrix Spike Duplica	S	NYTCL-8260-R2	WATER	DACQ	U				

Comments:

WG1976114-4	WG1976114-3
WG1976114-6	L2453720-02
WG1976114-7	L2453720-02

Inst: Gonzo
Initials: RAW/LAC
Date: **07/12/24**
Run: **N**

BFB: V10509
IS/SS: V10528
ICAL: V10538,V10544A
ICV: V10539,V10500,V10501,V10527,V10541,V10540

Method
GC 8260_RTX_VMS
Autosampler: 8260water
Concentrator: 8260

QC: ____ Seq:

Vial	DATA FILE	SAMPLE	pH<2
1	VG240712PBF1	BFB TUNE	
1	VG240712PBF2	BFB TUNE	
2	VG240712PBF3	BFB TUNE	
3	VG240712P01	BLK	
4	VG240712P02	BLK	
5	VG240712P03	I8260STD0.19PPB	
6	VG240712P04	I8260STD0.19PPB	
7	VG240712P05	I8260STD0.5PPB	
8	VG240712P06	I8260STD0.5PPB	
9	VG240712P07	I8260STD2PPB	
10	VG240712P08	I8260STD10PPB	
11	VG240712P09	I8260STD30PPB	
12	VG240712P10	I8260STD80PPB	
13	VG240712P11	I8260STD120PPB	
14	VG240712P12	I8260STD200PPB	
15	VG240712P13	BLK	
16	VG240712P14	BLK	
17	VG240712P15	BLK	
18	VG240712P16	BLK	
19	VG240712P17	C8260STD10PPB	
20	VG240712P18	C8260STD10PPB	
21	VG240712P19	BLK	
22	VG240712P20	BLK	
23	VG240712P21	MDL 0.5PPB	
24	VG240712P22	MDL 0.5PPB	
25	VG240712P23	MDL 2PPB	
26	VG240712P24	MDL 2PPB	
27	VG240712P25	BLK	

Inst: Gonzo
Initials: MAG
Date: **09/24/24**
Run: **N**

BFB: V10678
IS/SS: V10670
ICAL: V10683A,V10679

Method
GC 8260_RTX_VMS
Autosampler: 8260water
Concentrator: 8260

QC: ____ Seq:

Vial	DATA FILE	SAMPLE			pH<2
1	VG240924NBF3	BFB TUNE 18:59			
1	VG240924N01	8260 CCAL LCS			
2	VG240924N02	8260 CCAL LCSD			
3	VG240924N03	8260 CCAL			
4	VG240924N04	BLK			
5	VG240924N05	METHOD BLK			
6	VG240924N06	L2453613-07,31,10,10,,C	NYR2		pH<2
7	VG240924N07	L2453879-01,31,10,10,,X	NYR2		pH>2
8	VG240924N08	L2453720-01,31,10,10,,A	NYTCL		pH<2
9	VG240924N09	L2453720-02,31,10,10,,A	NYTCL		pH<2
10	VG240924N10	L2453720-03,31,10,10,,A	NYTCL		pH<2
11	VG240924N11	L2453720-04,31,10,10,,A	NYTCL		pH<2
12	VG240924N12	L2453720-05,31,10,10,,A	NYTCL	TB	pH<2
13	VG240924N13	L2453720-06,31,10,10,,A	NYTCL		pH<2
14	VG240924N14	L2453720-07,31,10,10,,A	NYTCL		pH<2
15	VG240924N15	L2453720-08,31,10,10,,A	NYTCL		pH<2
16	VG240924N16	L2453720-09,31,10,10,,A	NYTCL		pH<2
17	VG240924N17	L2453560-07,31,10,10,,A	NJ/15	FB	pH<2
18	VG240924N18	L2453560-08,31,10,10,,A	NJ/15	TB	pH<2
19	VG240924N19	L2453560-01,31,10,10,,A	NJ/15		pH<2
20	VG240924N20	L2453560-02,31,10,10,,A	NJ/15		pH<2
21	VG240924N21	I2453560-03D,31,5.0,10,,a	NJ/15	FOAM	pH<2
22	VG240924N22	I2453560-04D,31,5.0,10,,a	NJ/15	FOAM	pH<2
23	VG240924N23	I2453560-05D,31,5.0,10,,a	NJ/15	FOAM	pH<2
24	VG240924N24	I2453560-06D,31,2.0,10,,a	NJ/15	FOAM	pH<2
25	VG240924N25	L2453720-02MS,31,10,10,,A1	NYTCL		pH<2
26	VG240924N26	L2453720-02MSD,31,10,10,,A2	NYTCL		pH<2
27	VG240924N27	HSTD			
28	VG240924N28	BLK			
29	VG240924N29	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453720
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-8S (L2453720-01)	33	26	53	57	75	71	0
MW-8D (L2453720-02)	46	29	63	63	41	61	0
DUP_091824 (L2453720-03)	38	32	80	84	68	88	0
EQUIPMENT BLANK (L2453720-04)	40	29	73	74	71	88	0
MW-5D (L2453720-06)	22	17	68	61	19	63	0
PZ-5 (L2453720-07)	22	17	55	52	22	53	0
MW-12S (L2453720-08)	24	18	41	44	34	59	0
MW-12D (L2453720-09)	33	21	51	49	33	59	0
WG1975324-1BLANK	51	34	73	66	80	78	0
WG1975324-2LCS	41	32	59	61	75	74	0
WG1975324-3LCSD	44	35	69	61	78	73	0
MW-8DMS	48	31	64	60	50	61	0
MW-8DMSD	51	34	70	66	50	63	0

QC LIMITS

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

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1975324-2 Analysis Date : 09/24/24 14:51	**File ID**	: 975324-2
LCSD Sample ID	: WG1975324-3 Analysis Date : 09/24/24 15:14	**File ID**	: 975324-3

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	20	14.	70		20	14.	70		0	40-140	30
2,4-Dinitrotoluene	20	12.	62		20	13.	63		2	48-143	30
2,6-Dinitrotoluene	20	14.	68		20	15.	75		10	40-140	30
4-Chlorophenyl phenyl ether	20	13.	67		20	14.	69		3	40-140	30
4-Bromophenyl phenyl ether	20	13.	65		20	13.	66		2	40-140	30
Bis(2-chloroisopropyl)ether	20	4.1	21	Q	20	4.5	22	Q	5	40-140	30
Bis(2-chloroethoxy)methane	20	12.	58		20	11.	57		2	40-140	30
Hexachlorocyclopentadiene	20	7.2	36	Q	20	7.7	38	Q	5	40-140	30
Isophorone	20	12.	62		20	12.	63		2	40-140	30
Nitrobenzene	20	12.	58		20	13.	65		11	40-140	30
NDPA/DPA	20	13.	64		20	13.	64		0	40-140	30
n-Nitrosodi-n-propylamine	20	12.	61		20	13.	65		6	29-132	30
Bis(2-ethylhexyl)phthalate	20	11.	54		20	11.	57		5	40-140	30
Butyl benzyl phthalate	20	14.	70		20	14.	70		0	40-140	30
Di-n-butylphthalate	20	12.	61		20	12.	62		2	40-140	30
Di-n-octylphthalate	20	11.	57		20	12.	58		2	40-140	30
Diethyl phthalate	20	12.	60		20	13.	63		5	40-140	30
Dimethyl phthalate	20	12.	62		20	14.	70		12	40-140	30
Biphenyl	20	12.	58		20	12.	61		5	40-140	30
4-Chloroaniline	20	10.	53		20	11.	53		0	40-140	30
2-Nitroaniline	20	14.	70		20	15.	76		8	52-143	30
3-Nitroaniline	20	14.	70		20	13.	66		6	25-145	30
4-Nitroaniline	20	13.	65		20	13.	65		0	51-143	30
Dibenzofuran	20	11.	56		20	12.	60		7	40-140	30
1,2,4,5-Tetrachlorobenzene	20	12.	59		20	12.	62		5	2-134	30
Acetophenone	20	12.	60		20	12.	62		3	39-129	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1975324-2 **Analysis Date** : 09/24/24 14:51	**File ID**	: 975324-2
LCSD Sample ID	: WG1975324-3 **Analysis Date** : 09/24/24 15:14	**File ID**	: 975324-3

	Laboratory Control Sample				Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD		Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	20	12.	60		20	15.	75		22		30-130	30
p-Chloro-m-cresol	20	13.	65		20	15.	73		12		23-97	30
2-Chlorophenol	20	11.	55		20	12.	62		12		27-123	30
2,4-Dichlorophenol	20	12.	59		20	14.	71		18		30-130	30
2,4-Dimethylphenol	20	10.	51		20	11.	54		6		30-130	30
2-Nitrophenol	20	12.	60		20	14.	68		13		30-130	30
4-Nitrophenol	20	5.9	30		20	8.0	40		29		10-80	30
2,4-Dinitrophenol	20	1.7	8	Q	20	3.9	19	Q	77	Q	20-130	30
4,6-Dinitro-o-cresol	20	4.5	22		20	7.5	37		51	Q	20-164	30
Phenol	20	6.5	33		20	7.1	35		6		12-110	30
2-Methylphenol	20	12.	61		20	12.	58		5		30-130	30
3-Methylphenol/4-Methylphenol	20	11.	57		20	12.	60		5		30-130	30
2,4,5-Trichlorophenol	20	12.	62		20	16.	80		25		30-130	30
Carbazole	20	13.	65		20	13.	67		3		55-144	30
Atrazine	20	12.	59		20	12.	63		7		40-140	30
Benzaldehyde	20	11.	53		20	11.	54		2		40-140	30
Caprolactam	20	2.3	12		20	2.2	11		9		10-130	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/25/24 18:46
Matrix Spike	: WG1975324-4	**MS Analysis Date**	: 09/25/24 19:12
Matrix Spike Dup	: WG1975324-5	**MSD Analysis Date**	: 09/25/24 19:37

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3,3'-Dichlorobenzidine	ND	20	12.	60	20	13.	65	8	40-140	30
2,4-Dinitrotoluene	ND	20	13.	65	20	14.	70	7	48-143	30
2,6-Dinitrotoluene	ND	20	14.	70	20	14.	70	0	40-140	30
4-Chlorophenyl phenyl ether	ND	20	13.	65	20	14.	70	7	40-140	30
4-Bromophenyl phenyl ether	ND	20	12.	60	20	13.	65	8	40-140	30
Bis(2-chloroisopropyl)ether	ND	20	18.	90	20	20.	100	11	40-140	30
Bis(2-chloroethoxy)methane	ND	20	14.	70	20	14.	70	0	40-140	30
Hexachlorocyclopentadiene	ND	20	11.J	55	20	12.J	60	9	40-140	30
Isophorone	ND	20	14.	70	20	15.	75	7	40-140	30
Nitrobenzene	ND	20	14.	70	20	15.	75	7	40-140	30
NDPA/DPA	ND	20	14.	70	20	14.	70	0	40-140	30
n-Nitrosodi-n-propylamine	ND	20	14.	70	20	15.	75	7	29-132	30
Bis(2-ethylhexyl)phthalate	ND	20	17.	85	20	18.	90	6	40-140	30
Butyl benzyl phthalate	ND	20	17.	85	20	18.	90	6	40-140	30
Di-n-butylphthalate	ND	20	16.	80	20	17.	85	6	40-140	30
Di-n-octylphthalate	ND	20	18.	90	20	18.	90	0	40-140	30
Diethyl phthalate	ND	20	16.	80	20	16.	80	0	40-140	30
Dimethyl phthalate	ND	20	14.	70	20	14.	70	0	40-140	30
Biphenyl	ND	20	12.	60	20	12.	60	0	40-140	30
4-Chloroaniline	ND	20	14.	70	20	14.	70	0	40-140	30
2-Nitroaniline	ND	20	14.	70	20	14.	70	0	52-143	30
3-Nitroaniline	ND	20	13.	65	20	14.	70	7	25-145	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/25/24 18:46
Matrix Spike	: WG1975324-4	**MS Analysis Date**	: 09/25/24 19:12
Matrix Spike Dup	: WG1975324-5	**MSD Analysis Date**	: 09/25/24 19:37

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
4-Nitroaniline	ND	20	14.	70	20	14.	70	0	51-143	30
Dibenzofuran	ND	20	13.	65	20	14.	70	7	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	20	11.	55	20	12.	60	9	2-134	30
Acetophenone	ND	20	13.	65	20	14.	70	7	39-129	30
2,4,6-Trichlorophenol	ND	20	14.	70	20	15.	75	7	30-130	30
p-Chloro-m-cresol	ND	20	15.	75	20	15.	75	0	23-97	30
2-Chlorophenol	ND	20	13.	65	20	14.	70	7	27-123	30
2,4-Dichlorophenol	ND	20	13.	65	20	14.	70	7	30-130	30
2,4-Dimethylphenol	ND	20	12.	60	20	12.	60	0	30-130	30
2-Nitrophenol	ND	20	12.	60	20	14.	70	15	30-130	30
4-Nitrophenol	ND	20	8.7J	44	20	9.5J	48	9	10-80	30
2,4-Dinitrophenol	ND	20	16.J	80	20	18.J	90	12	20-130	30
4,6-Dinitro-o-cresol	ND	20	15.	75	20	15.	75	0	20-164	30
Phenol	3.0J	20	6.9	35	20	8.3	42	18	12-110	30
2-Methylphenol	ND	20	12.	60	20	13.	65	8	30-130	30
3-Methylphenol/4-Methylphenol	ND	20	12.	60	20	12.	60	0	30-130	30
2,4,5-Trichlorophenol	ND	20	14.	70	20	15.	75	7	30-130	30
Carbazole	ND	20	14.	70	20	15.	75	7	55-144	30
Atrazine	ND	20	17.	85	20	18.	90	6	40-140	30
Benzaldehyde	ND	20	11.	55	20	12.	60	9	40-140	30
Caprolactam	ND	20	10.	50	20	10.	50	0	10-130	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1975324-1	**Lab File ID**	: 975324-1
Instrument ID	: SV106	**Extraction Date**	: 09/24/24
Matrix	: WATER	**Analysis Date**	: 09/24/24 15:38
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1975324-2LCS	WG1975324-2	09/24/24 14:51
MW-5D	L2453720-06	09/24/24 15:07
WG1975324-3LCSD	WG1975324-3	09/24/24 15:14
MW-8S	L2453720-01	09/24/24 18:00
PZ-5	L2453720-07	09/24/24 18:03
DUP_091824	L2453720-03	09/24/24 18:23
MW-12S	L2453720-08	09/24/24 18:28
EQUIPMENT BLANK	L2453720-04	09/24/24 18:47
MW-12D	L2453720-09	09/24/24 18:54
MW-8D	L2453720-02	09/25/24 18:46
MW-8DMS	WG1975324-4	09/25/24 19:12
MW-8DMSD	WG1975324-5	09/25/24 19:37

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/02/24 19:09
Tune Standard	: R1836615-1	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	35.9
68	Less than 2.0% of mass 69	0.6 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	44
197	Less than 2.0% of mass 198	0.8
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.3
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	82
443	15.0 - 24.0% of mass 442	16.6 (20.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1836615-11	ABNL9	06/02/24 19:34
ABNL8	R1836615-10	ABNL8	06/02/24 19:59
ABNL7	R1836615-9	ABNL7	06/02/24 20:24
ABNL6	R1836615-8	ABNL6	06/02/24 20:50
ABNL5	R1836615-7	ABNL5	06/02/24 21:15
ABNL4	R1836615-6	ABNL4	06/02/24 21:40
ABNL3	R1836615-5	ABNL3	06/02/24 22:05
ABNL2	R1836615-4	ABNL2	06/02/24 22:30
ABNL1	R1836615-3	ABNL1	06/02/24 22:56
AP9L9	R1836615-29	AP9L9	06/02/24 23:21
AP9L8	R1836615-28	AP9L8	06/02/24 23:47
AP9L7	R1836615-27	AP9L7	06/03/24 00:12
AP9L6	R1836615-25	AP9L6	06/03/24 00:37
AP9L5	R1836615-26	AP9L5	06/03/24 01:08
AP9L4	R1836615-24	AP9L4	06/03/24 01:33
AP9L3	R1836615-23	AP9L3	06/03/24 01:58
AP9L2	R1836615-22	AP9L2	06/03/24 02:23
AP9L1	R1836615-21	AP9L1	06/03/24 02:49
ABN ICV Quant Report	R1836615-30	ABNICV	06/03/24 03:14
AP9 ICV Quant Report	R1836615-32	AP9ICV	06/03/24 03:39

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 06/03/24 04:04
Tune Standard	: R1836615-2	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	34.1
68	Less than 2.0% of mass 69	0.5 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	43.3
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	21.9
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	17.1
442	Base Peak, or >50% of mass 198	89.8
443	15.0 - 24.0% of mass 442	17.6 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1836615-20	ADPL9	06/03/24 04:29
ADPL8	R1836615-19	ADPL8	06/03/24 04:54
ADPL7	R1836615-18	ADPL7	06/03/24 05:19
ADPL6	R1836615-17	ADPL6	06/03/24 05:45
ADPL5	R1836615-16	ADPL5	06/03/24 06:10
ADPL4	R1836615-15	ADPL4	06/03/24 06:35
ADPL3	R1836615-14	ADPL3	06/03/24 07:00
ADPL2	R1836615-13	ADPL2	06/03/24 07:25
ADPL1	R1836615-12	ADPL1	06/03/24 07:50
ADP ICV Quant Report	R1836615-31	ADPICV	06/03/24 08:15

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/24/24 09:39
Tune Standard	: WG1975560-1	**Tune File ID**	: DEG0924_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	40.6
68	Less than 2.0% of mass 69	0.6 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	48.1
197	Less than 2.0% of mass 198	0.1
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	20.2
365	Greater than 1.0% of mass 198	2.1
441	Present, but less than 24% of mass 442	17
442	Base Peak, or >50% of mass 198	52.4
443	15.0 - 24.0% of mass 442	10.2 (19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1975560-6TFACTOR-B	WG1975560-6	DEG0924	09/24/24 09:39
WG1975560-7TFACTOR-P	WG1975560-7	DEG0924	09/24/24 09:39
WG1975560-3CCAL	WG1975560-3	ABN0924	09/24/24 10:04
WG1975560-4CCAL	WG1975560-4	AP90924	09/24/24 10:29
WG1975560-5CCAL	WG1975560-5	ADP0924	09/24/24 10:54
MW-5D	L2453720-06	53720-06	09/24/24 15:07
PZ-5	L2453720-07	53720-07	09/24/24 18:03
MW-12S	L2453720-08	53720-08	09/24/24 18:28
MW-12D	L2453720-09	53720-09	09/24/24 18:54

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/25/24 08:33
Tune Standard	: WG1976103-1	**Tune File ID**	: DEG0925_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	41.3
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	49.3
197	Less than 2.0% of mass 198	0.2
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	19.8
365	Greater than 1.0% of mass 198	2
441	Present, but less than 24% of mass 442	16.5
442	Base Peak, or >50% of mass 198	51.4
443	15.0 - 24.0% of mass 442	10.2 (19.9)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1976103-6TFACTOR-B	WG1976103-6	DEG0925	09/25/24 08:33
WG1976103-7TFACTOR-P	WG1976103-7	DEG0925	09/25/24 08:33
WG1976103-3CCAL	WG1976103-3	ABN0925	09/25/24 08:59
WG1976103-4CCAL	WG1976103-4	AP90925	09/25/24 09:24
WG1976103-5CCAL	WG1976103-5	ADP0925	09/25/24 09:49
MW-8D	L2453720-02	53720-02	09/25/24 18:46
WG1975324-4MS	WG1975324-4	975324-4	09/25/24 19:12
WG1975324-5MSD	WG1975324-5	975324-5	09/25/24 19:37

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/24/24 16:32
Tune Standard	: R1845372-31	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	41.3
68	Less than 2.0% of mass 69	0.8 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	46.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7.2
275	10.0 - 60.0% of Base Peak	25.9
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	16.5
442	Base Peak, or >50% of mass 198	59.9
443	15.0 - 24.0% of mass 442	11.7 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1845372-9	ABNL9	06/24/24 16:56
ABNL8	R1845372-8	ABNL8	06/24/24 17:20
ABNL7	R1845372-7	ABNL7	06/24/24 17:43
ABNL6	R1845372-6	ABNL6	06/24/24 18:07
ABNL5	R1845372-5	ABNL5	06/24/24 18:31
ABNL4	R1845372-4	ABNL4	06/24/24 18:54
ABNL3	R1845372-3	ABNL3	06/24/24 19:18
ABNL2	R1845372-2	ABNL2	06/24/24 19:42
ABNL1	R1845372-1	ABNL1	06/24/24 20:05
AP9L9	R1845372-27	AP9L9	06/24/24 20:29
AP9L8	R1845372-26	AP9L8	06/24/24 20:53
AP9L7	R1845372-25	AP9L7	06/24/24 21:16
AP9L6	R1845372-24	AP9L6	06/24/24 21:40
AP9L5	R1845372-23	AP9L5	06/24/24 22:04
AP9L4	R1845372-22	AP9L4	06/24/24 22:28
AP9L3	R1845372-21	AP9L3	06/24/24 22:52
AP9L2	R1845372-20	AP9L2	06/24/24 23:15
AP9L1	R1845372-19	AP9L1	06/24/24 23:39
ABN ICV Quant Report	R1845372-28	ABNICV	06/25/24 00:03
AP9 ICV Quant Report	R1845372-30	AP9ICV	06/25/24 00:27

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 06/25/24 00:51
Tune Standard	: R1845372-32	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.4
68	Less than 2.0% of mass 69	0.7 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	44.6
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	26.6
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	16.3
442	Base Peak, or >50% of mass 198	62.7
443	15.0 - 24.0% of mass 442	12.2 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1845372-18	ADPL9	06/25/24 01:14
ADPL8	R1845372-17	ADPL8	06/25/24 01:38
ADPL7	R1845372-16	ADPL7	06/25/24 02:02
ADPL6	R1845372-14	ADPL6	06/25/24 02:26
ADPL5	R1845372-15	ADPL5	06/25/24 02:49
ADPL4	R1845372-12	ADPL4	06/25/24 03:13
ADPL3	R1845372-13	ADPL3	06/25/24 03:37
ADPL2	R1845372-11	ADPL2	06/25/24 04:01
ADPL1	R1845372-10	ADPL1	06/25/24 04:24
ADP ICV Quant Report	R1845372-29	ADPICV	06/25/24 04:48

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 09/24/24 06:57
Tune Standard	: WG1975455-1	**Tune File ID**	: DEG0924_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	24.4
68	Less than 2.0% of mass 69	0.4 (1.1)1
69		100
70	Less than 2.0% of mass 69	0.1 (.4)1
127	10.0 - 80.0% of Base Peak	40.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	28
365	Greater than 1.0% of mass 198	3.6
441	Present, but less than 24% of mass 442	15.9
442	Base Peak, or >50% of mass 198	66.7
443	15.0 - 24.0% of mass 442	13.3 (19.9)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1975455-6TFACTOR-B	WG1975455-6	DEG0924	09/24/24 06:57
WG1975455-7TFACTOR-P	WG1975455-7	DEG0924	09/24/24 06:57
WG1975455-3CCAL	WG1975455-3	ABN0924	09/24/24 07:21
WG1975455-4CCAL	WG1975455-4	AP90924	09/24/24 07:45
WG1975455-5CCAL	WG1975455-5	ADP0924	09/24/24 08:09
WG1975324-2LCS	WG1975324-2	975324-2	09/24/24 14:51
WG1975324-3LCSD	WG1975324-3	975324-3	09/24/24 15:14
WG1975324-1BLANK	WG1975324-1	975324-1	09/24/24 15:38
MW-8S	L2453720-01	53720-01	09/24/24 18:00
DUP_091824	L2453720-03	53720-03	09/24/24 18:23
EQUIPMENT BLANK	L2453720-04	53720-04	09/24/24 18:47

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 09/24/24 07:21:00
Sample No	: WG1975455-3	**Lab File ID**	: ABN0924

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1975455-3	24148	6.29	82755	7.73	56844	9.50
Upper Limit	48296	6.79	165510	8.23	113688	10.00
Lower Limit	12074	5.79	41378	7.23	28422	9.00
Sample ID						
WG1975455-4 CCAL	36467	6.29	130613	7.73	92349	9.49
WG1975455-5 CCAL	24852	6.29	-	-	61204	9.50
WG1975324-2 LCS	21497	6.29	78441	7.73	56529	9.49
WG1975324-3 LCSD	22158	6.29	79534	7.73	57972	9.50
WG1975324-1 BLANK	23832	6.29	87033	7.73	63193	9.50
MW-8S	23976	6.29	88646	7.73	65038	9.49
DUP_091824	23869	6.29	86466	7.73	64800	9.49
EQUIPMENT BLANK	20706	6.29	74364	7.73	52376	9.49

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV106	**Analysis Date**	: 09/24/24 07:21:00
Sample No	: WG1975455-3	**Lab File ID**	: ABN0924

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1975455-3	128731	10.94	146328	13.57	171391	15.03
Upper Limit	257462	11.44	292656	14.07	342782	15.53
Lower Limit	64366	10.44	73164	13.07	85696	14.53
Sample ID						
WG1975455-4 CCAL	193366	10.93	-	-	-	-
WG1975455-5 CCAL	132912	10.94	-	-	-	-
WG1975324-2 LCS	121527	10.94	152406	13.57	165983	15.03
WG1975324-3 LCSD	128275	10.94	156953	13.57	167859	15.03
WG1975324-1 BLANK	147889	10.94	174749	13.57	181997	15.03
MW-8S	152722	10.93	173171	13.56	178244	15.03
DUP_091824	148385	10.94	167943	13.56	172128	15.02
EQUIPMENT BLANK	118520	10.94	153511	13.56	165836	15.02

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/24/24 10:04:00
Sample No	: WG1975560-3	**Lab File ID**	: ABN0924

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1975560-3	19920	6.56	70855	7.97	40421	9.73
Upper Limit	39840	7.06	141710	8.47	80842	10.23
Lower Limit	9960	6.06	35428	7.47	20211	9.23
Sample ID						
WG1975560-4 CCAL	19336	6.56	70002	7.97	38608	9.73
WG1975560-5 CCAL	20013	6.56	-	-	39412	9.73
MW-5D	21364	6.56	78982	7.97	43784	9.73
PZ-5	23789	6.56	86738	7.97	48085	9.73
MW-12S	21752	6.56	80957	7.97	45845	9.73
MW-12D	22176	6.56	82760	7.97	45819	9.73

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT

RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/24/24 10:04:00
Sample No	: WG1975560-3	**Lab File ID**	: ABN0924

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1975560-3	71763	11.17	60563	13.82	60747	15.30
Upper Limit	143526	11.67	121126	14.32	121494	15.80
Lower Limit	35882	10.67	30282	13.32	30374	14.80
Sample ID						
WG1975560-4 CCAL	67018	11.17	-	-	-	-
WG1975560-5 CCAL	73403	11.17	-	-	-	-
MW-5D	82247	11.17	67313	13.82	68760	15.30
PZ-5	91759	11.17	78468	13.82	79995	15.30
MW-12S	84743	11.17	70787	13.82	68748	15.30
MW-12D	87953	11.17	75735	13.82	73922	15.30

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/25/24 08:59:00
Sample No	: WG1976103-3	**Lab File ID**	: ABN0925

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1976103-3	21684	6.54	77844	7.96	45627	9.72
Upper Limit	43368	7.04	155688	8.46	91254	10.22
Lower Limit	10842	6.04	38922	7.46	22814	9.22
Sample ID						
WG1976103-4 CCAL	22207	6.54	80138	7.96	45139	9.72
WG1976103-5 CCAL	21399	6.54	-	-	44867	9.72
MW-8D	22193	6.54	82397	7.96	46922	9.72
MW-8D MS	21693	6.54	81625	7.96	49712	9.72
MW-8D MSD	23304	6.55	84817	7.96	50535	9.72

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV107	**Analysis Date**	: 09/25/24 08:59:00
Sample No	: WG1976103-3	**Lab File ID**	: ABN0925

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1976103-3	84370	11.16	82807	13.80	83291	15.28
Upper Limit	168740	11.66	165614	14.30	166582	15.78
Lower Limit	42185	10.66	41404	13.30	41646	14.78
Sample ID						
WG1976103-4 CCAL	82977	11.16	-	-	-	-
WG1976103-5 CCAL	85159	11.16	-	-	-	-
MW-8D	89206	11.16	77947	13.80	74156	15.28
MW-8D MS	98390	11.16	91340	13.80	89162	15.29
MW-8D MSD	96717	11.16	86299	13.80	83608	15.29

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Date Created: 03/07/23
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File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

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Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-01	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-01	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 18:46
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-02	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 18:46
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-02	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	3.0	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:23
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-03	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:23
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-03	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:47
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-04	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:47
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-04	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:07
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-06	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:07
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-06	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	0.65	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:03
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-07	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:03
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-07	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	1.6	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:28
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-08	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:28
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-08	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:54
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-09	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:54
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 53720-09	**Analyst**	: EK
Sample Amount	: 100 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	2.4	5.0	0.35	J
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975324-1	**Date Collected**	: NA
Client ID	: WG1975324-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 15:38
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 975324-1	**Analyst**	: SMZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975324-1	**Date Collected**	: NA
Client ID	: WG1975324-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 15:38
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 975324-1	**Analyst**	: SMZ
Sample Amount	: 100 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-06.D
Acq On : 24 Sep 2024 3:07 pm
Operator : SV107:ek
Sample : L2453720-06,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 18:51:52 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.557	152	21364	4.000	ug/ml	0.00
Standard Area 1 = 19920			Recovery = 107.25%			
27) IS2_1,4-Dichlorobenzen...	6.557	152	21364	4.000	ug/ml	0.00
Standard Area 3 = 19336			Recovery = 110.49%			
35) IS1_Naphthalene-d8	7.969	136	78982	4.000	ug/ml	0.00
Standard Area 1 = 70855			Recovery = 111.47%			
55) IS2_Naphthalene-d8	7.969	136	78982	4.000	ug/ml	0.00
Standard Area 3 = 70002			Recovery = 112.83%			
63) IS1_Acenaphthene-d10	9.733	164	43784	4.000	ug/ml	0.00
Standard Area 1 = 40421			Recovery = 108.32%			
83) IS2_Acenaphthene-d10	9.733	164	43784	4.000	ug/ml	0.00
Standard Area 3 = 38608			Recovery = 113.41%			
86) IS3_Acenaphthene-d10	9.733	164	43784	4.000	ug/ml	0.00
Standard Area 2 = 39412			Recovery = 111.09%			
88) IS1_Phenanthrene-d10	11.169	188	82247	4.000	ug/ml	0.00
Standard Area 1 = 71763			Recovery = 114.61%			
100) IS3_Phenanthrene-d10	11.169	188	82247	4.000	ug/ml	0.00
Standard Area 2 = 73403			Recovery = 112.05%			
104) IS1_Chrysene-d12	13.821	240	67313	4.000	ug/ml	0.00
Standard Area 1 = 60563			Recovery = 111.15%			
113) IS1_Perylene-d12	15.298	264	68760	4.000	ug/ml	0.00
Standard Area 1 = 60747			Recovery = 113.19%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.745	112	2513	0.436	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 21.80%			
7) Phenol-d6	6.187	99	2629	0.348	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 17.40%			
19) Nitrobenzene-d5	7.204	82	4980	0.682	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.20%			
46) 2-Fluorobiphenyl	9.086	172	10909	0.614	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 61.40%			
79) 2,4,6-Tribromophenol	10.498	330	759	0.370	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 18.50%			
96) 4-Terphenyl-d14	12.751	244	12193	0.627	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 62.70%			

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-06.D
Acq On : 24 Sep 2024 3:07 pm
Operator : SV107:ek
Sample : L2453720-06,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 18:51:52 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	6.198	94	541	0.065	ug/ml#	37
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.		
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-06.D
Acq On : 24 Sep 2024 3:07 pm
Operator : SV107:ek
Sample : L2453720-06,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 18:51:52 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	

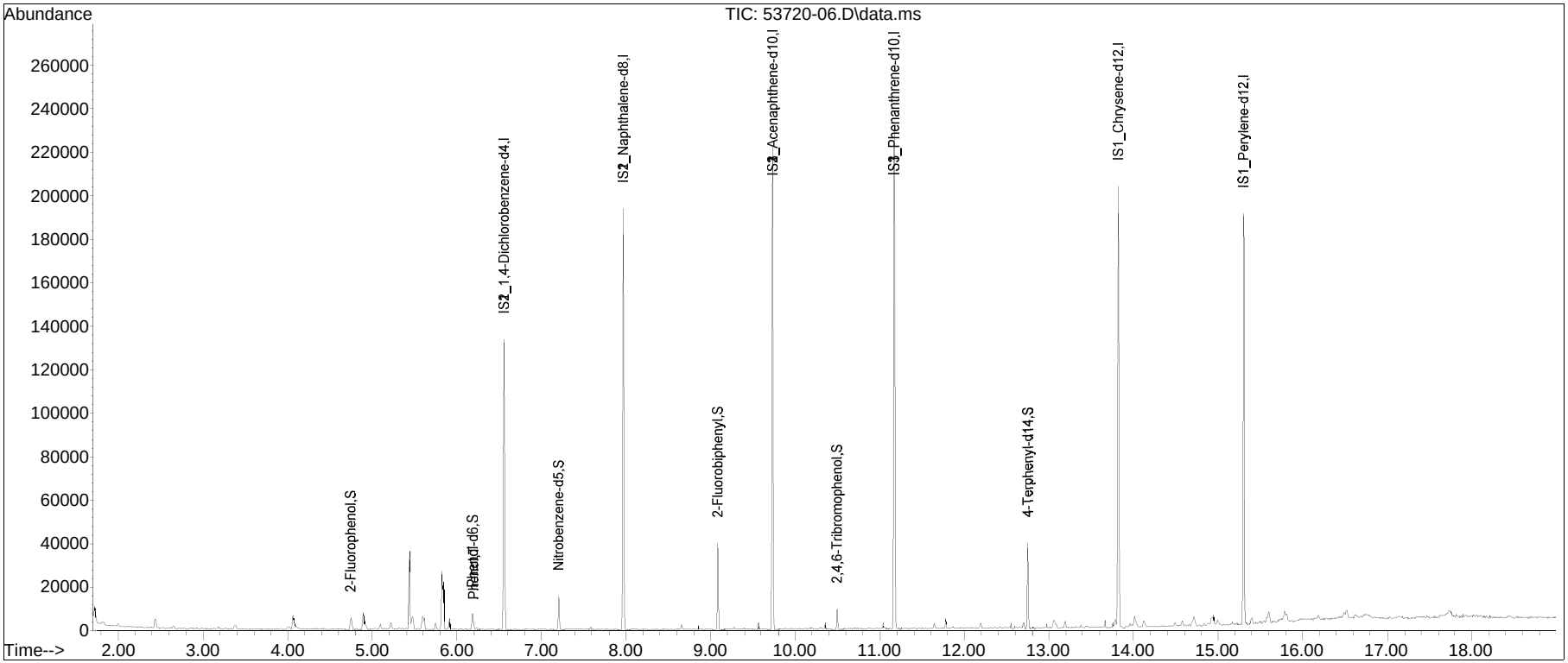
(#) = qualifier out of range (m) = manual integration (+) = signals summed

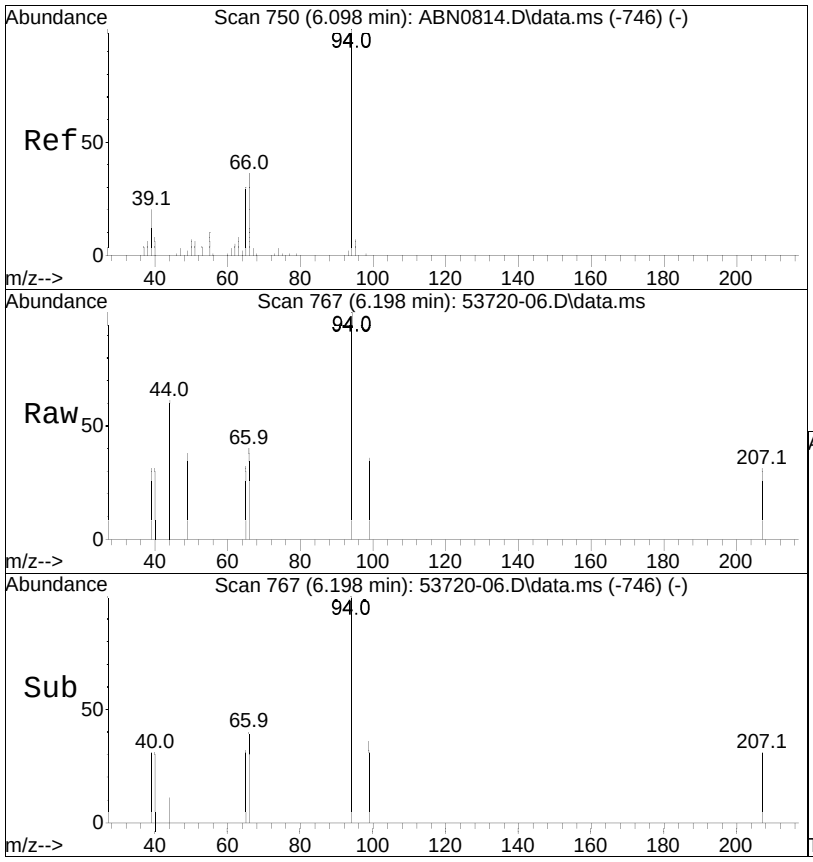
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-06.D
Acq On : 24 Sep 2024 3:07 pm
Operator : SV107:ek
Sample : L2453720-06,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 24 18:51:52 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924.D•

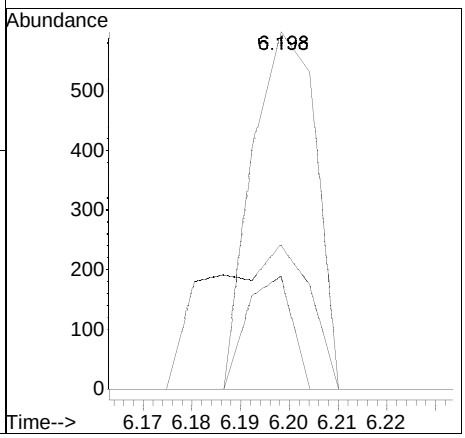




#8
Phenol
Concen: 0.06 ug/ml
RT: 6.198 min Scan# 767
Delta R.T. -0.000 min
Lab File: 53720-06.D
Acq: 24 Sep 2024 3:07 pm

Tgt Ion: 94 Resp: 541

Ion	Ratio	Lower	Upper
94	100		
65	0.0	26.0	39.0#
66	0.0	33.8	50.8#



Manual Integration Report

Data Path	: I:\8270\SV107\240924RVT\	QMethod	: FS240730SV107RVT.m
Data File	: 53720-06.D	Operator	: SV107:ek
Date Inj'd	: 9/24/2024 3:07 pm	Instrument	: SV107
Sample	: L2453720-06,32,,HNY	Quant Date	: 9/24/2024 3:26 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-01.D
Acq On : 24 Sep 2024 6:00 pm
Operator : SV106:ek
Sample : L2453720-01,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 24 18:33:39 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.286	152	23976	4.000	ug/ml		0.00
Standard Area 1 = 24148			Recovery = 99.29%				
27) IS2_1,4-Dichlorobenzen...	6.286	152	23976	4.000	ug/ml		0.00
Standard Area 3 = 36467			Recovery = 65.75%				
35) IS1_Naphthalene-d8	7.728	136	88646	4.000	ug/ml		0.00
Standard Area 1 = 82755			Recovery = 107.12%				
55) IS2_Naphthalene-d8	7.728	136	88646	4.000	ug/ml		0.00
Standard Area 3 = 130613			Recovery = 67.87%				
63) IS1_Acenaphthene-d10	9.492	164	65038	4.000	ug/ml		0.00
Standard Area 1 = 56844			Recovery = 114.41%				
83) IS2_Acenaphthene-d10	9.492	164	65038	4.000	ug/ml		0.00
Standard Area 3 = 92349			Recovery = 70.43%				
86) IS3_Acenaphthene-d10	9.492	164	65038	4.000	ug/ml		0.00
Standard Area 2 = 61204			Recovery = 106.26%				
88) IS1_Phenanthrene-d10	10.933	188	152722	4.000	ug/ml		0.00
Standard Area 1 = 128731			Recovery = 118.64%				
100) IS3_Phenanthrene-d10	10.933	188	152722	4.000	ug/ml		0.00
Standard Area 2 = 132912			Recovery = 114.90%				
104) IS1_Chrysene-d12	13.562	240	173171	4.000	ug/ml	#	0.00
Standard Area 1 = 146328			Recovery = 118.34%				
113) IS1_Perylene-d12	15.027	264	178244	4.000	ug/ml		0.00
Standard Area 1 = 171391			Recovery = 104.00%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.222	112	4569	0.659	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 32.95%				
7) Phenol-d6	5.910	99	4884	0.515	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.75%				
19) Nitrobenzene-d5	6.957	82	5110	0.527	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.70%				
46) 2-Fluorobiphenyl	8.863	172	12950	0.569	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 56.90%				
79) 2,4,6-Tribromophenol	10.269	330	6109	1.507	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 75.35%				
96) 4-Terphenyl-d14	12.527	244	29042	0.707	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 70.70%				

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-01.D
Acq On : 24 Sep 2024 6:00 pm
Operator : SV106:ek
Sample : L2453720-01,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 24 18:33:39 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-01.D
Acq On : 24 Sep 2024 6:00 pm
Operator : SV106:ek
Sample : L2453720-01,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 24 18:33:39 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

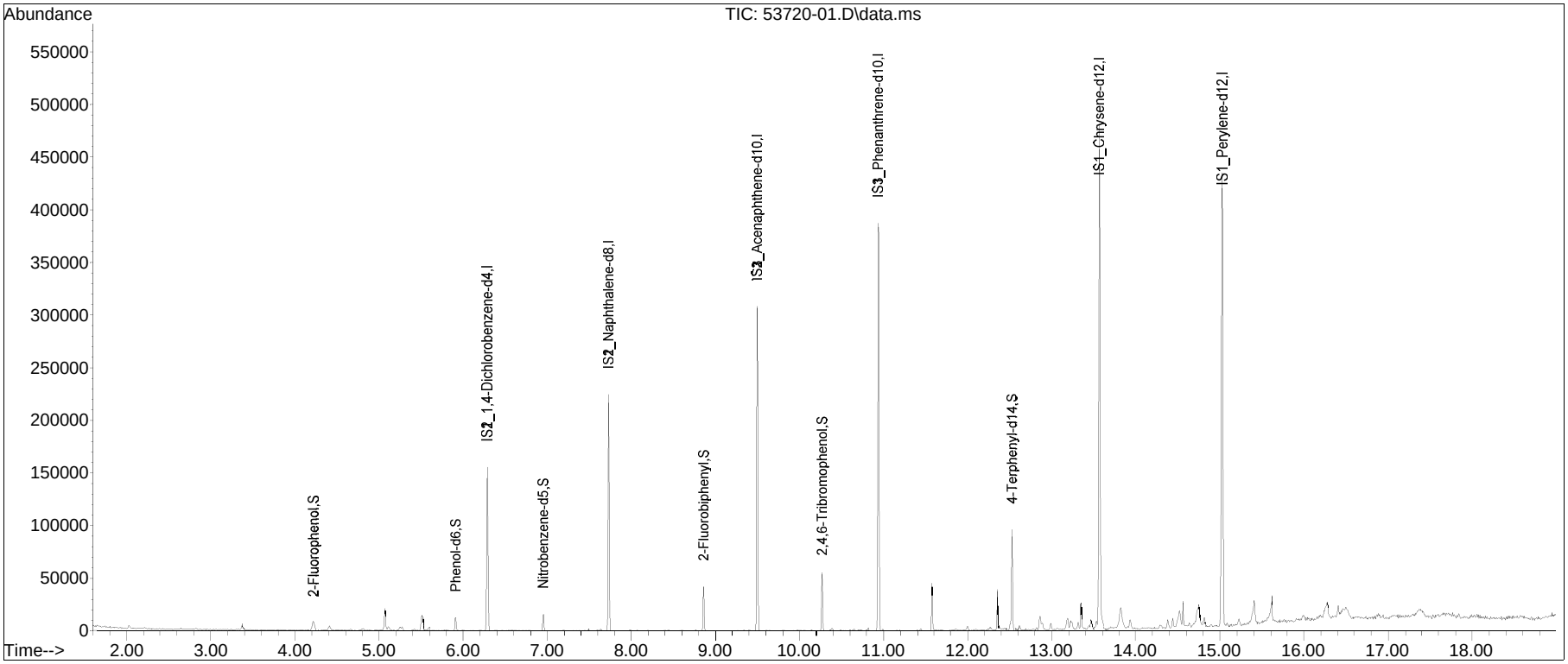
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-01.D
Acq On : 24 Sep 2024 6:00 pm
Operator : SV106:ek
Sample : L2453720-01,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 24 18:33:39 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240924RVT\	QMethod	: FS240624SV106.m
Data File	: 53720-01.D	Operator	: SV106:ek
Date Inj'd	: 9/24/2024 6:00 pm	Instrument	: SV 106
Sample	: L2453720-01,32,,HNY	Quant Date	: 9/24/2024 6:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-07.D
Acq On : 24 Sep 2024 6:03 pm
Operator : SV107:ek
Sample : L2453720-07,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 18:21:51 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.557	152	23789	4.000	ug/ml	0.00
Standard Area 1 = 19920			Recovery = 119.42%			
27) IS2_1,4-Dichlorobenzen...	6.557	152	23789	4.000	ug/ml	0.00
Standard Area 3 = 19336			Recovery = 123.03%			
35) IS1_Naphthalene-d8	7.969	136	86738	4.000	ug/ml	0.00
Standard Area 1 = 70855			Recovery = 122.42%			
55) IS2_Naphthalene-d8	7.969	136	86738	4.000	ug/ml	0.00
Standard Area 3 = 70002			Recovery = 123.91%			
63) IS1_Acenaphthene-d10	9.733	164	48085	4.000	ug/ml	0.00
Standard Area 1 = 40421			Recovery = 118.96%			
83) IS2_Acenaphthene-d10	9.733	164	48085	4.000	ug/ml	0.00
Standard Area 3 = 38608			Recovery = 124.55%			
86) IS3_Acenaphthene-d10	9.733	164	48085	4.000	ug/ml	0.00
Standard Area 2 = 39412			Recovery = 122.01%			
88) IS1_Phenanthrene-d10	11.168	188	91759	4.000	ug/ml	0.00
Standard Area 1 = 71763			Recovery = 127.86%			
100) IS3_Phenanthrene-d10	11.168	188	91759	4.000	ug/ml	0.00
Standard Area 2 = 73403			Recovery = 125.01%			
104) IS1_Chrysene-d12	13.821	240	78468	4.000	ug/ml	0.00
Standard Area 1 = 60563			Recovery = 129.56%			
113) IS1_Perylene-d12	15.298	264	79995	4.000	ug/ml	0.00
Standard Area 1 = 60747			Recovery = 131.69%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.745	112	2798	0.436	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 21.80%			
7) Phenol-d6	6.186	99	2832	0.337	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 16.85%			
19) Nitrobenzene-d5	7.204	82	4463	0.549	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 54.90%			
46) 2-Fluorobiphenyl	9.086	172	10207	0.523	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.30%			
79) 2,4,6-Tribromophenol	10.498	330	1001	0.445	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 22.25%			
96) 4-Terphenyl-d14	12.751	244	11507	0.530	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 53.00%			

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-07.D
Acq On : 24 Sep 2024 6:03 pm
Operator : SV107:ek
Sample : L2453720-07,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 18:21:51 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	6.198	94	1533	0.165	ug/ml	91
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.		
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-07.D
Acq On : 24 Sep 2024 6:03 pm
Operator : SV107:ek
Sample : L2453720-07,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 18:21:51 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	
109) Di-n-octylphthalate	0.000		0		N.D.	

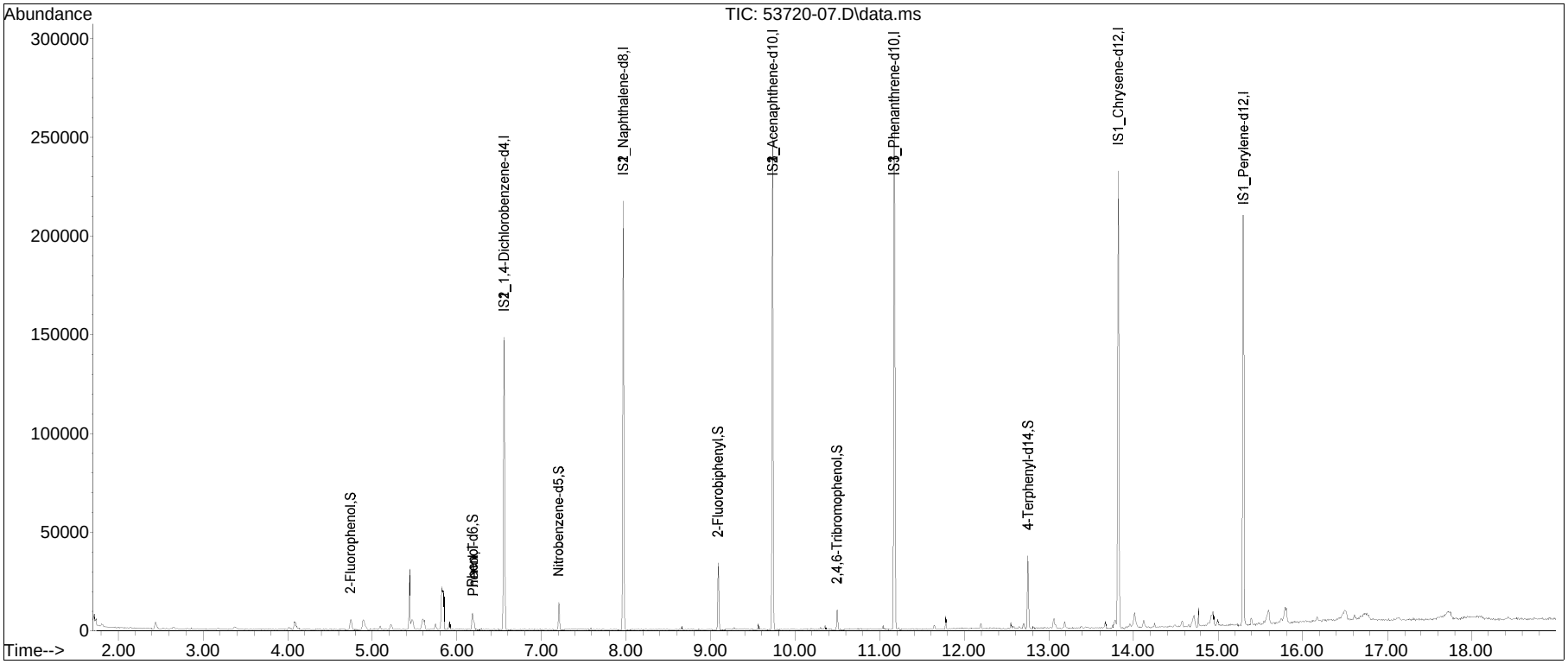
(#) = qualifier out of range (m) = manual integration (+) = signals summed

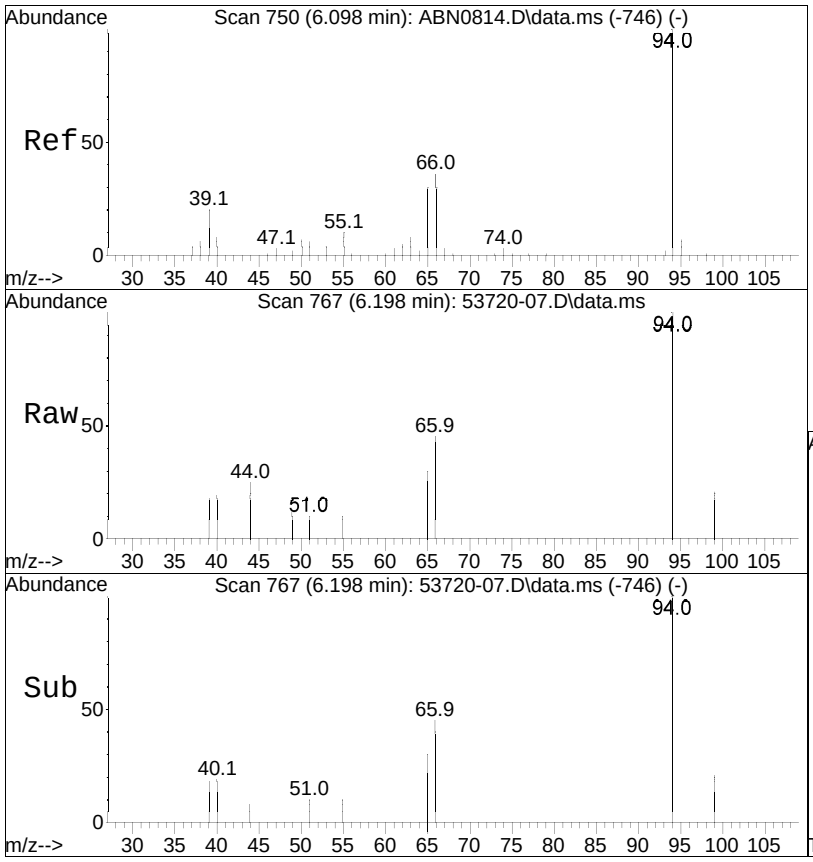
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-07.D
Acq On : 24 Sep 2024 6:03 pm
Operator : SV107:ek
Sample : L2453720-07,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 24 18:21:51 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924.D•

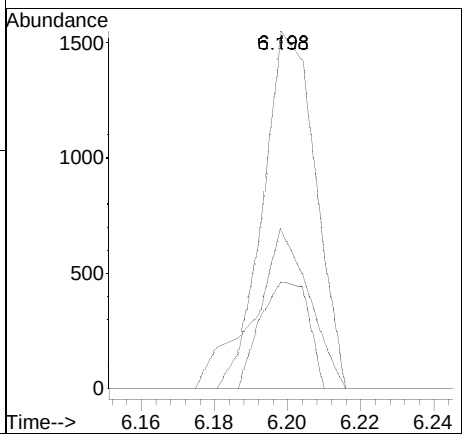




#8
Phenol
Concen: 0.16 ug/ml
RT: 6.198 min Scan# 767
Delta R.T. -0.000 min
Lab File: 53720-07.D
Acq: 24 Sep 2024 6:03 pm

Tgt Ion: 94 Resp: 1533

Ion	Ratio	Lower	Upper
94	100		
65	27.8	26.0	39.0
66	48.7	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\SV107\240924RVT\	QMethod	: FS240730SV107RVT.m
Data File	: 53720-07.D	Operator	: SV107:ek
Date Inj'd	: 9/24/2024 6:03 pm	Instrument	: SV107
Sample	: L2453720-07,32,,HNY	Quant Date	: 9/24/2024 6:23 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-03.D
Acq On : 24 Sep 2024 6:23 pm
Operator : SV106:ek
Sample : L2453720-03,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 24 18:59:53 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.286	152	23869	4.000 ug/ml	0.00
Standard Area 1 = 24148			Recovery = 98.84%		
27) IS2_1,4-Dichlorobenzen...	6.286	152	23869	4.000 ug/ml	0.00
Standard Area 3 = 36467			Recovery = 65.45%		
35) IS1_Naphthalene-d8	7.728	136	86466	4.000 ug/ml	0.00
Standard Area 1 = 82755			Recovery = 104.48%		
55) IS2_Naphthalene-d8	7.728	136	86466	4.000 ug/ml	0.00
Standard Area 3 = 130613			Recovery = 66.20%		
63) IS1_Acenaphthene-d10	9.492	164	64800	4.000 ug/ml	0.00
Standard Area 1 = 56844			Recovery = 114.00%		
83) IS2_Acenaphthene-d10	9.492	164	64800	4.000 ug/ml	0.00
Standard Area 3 = 92349			Recovery = 70.17%		
86) IS3_Acenaphthene-d10	9.492	164	64800	4.000 ug/ml	0.00
Standard Area 2 = 61204			Recovery = 105.88%		
88) IS1_Phenanthrene-d10	10.939	188	148385	4.000 ug/ml	0.00
Standard Area 1 = 128731			Recovery = 115.27%		
100) IS3_Phenanthrene-d10	10.939	188	148385	4.000 ug/ml	0.00
Standard Area 2 = 132912			Recovery = 111.64%		
104) IS1_Chrysene-d12	13.562	240	167943	4.000 ug/ml	# 0.00
Standard Area 1 = 146328			Recovery = 114.77%		
113) IS1_Perylene-d12	15.021	264	172128	4.000 ug/ml	0.00
Standard Area 1 = 171391			Recovery = 100.43%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.228	112	5174	0.750 ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 37.50%		
7) Phenol-d6	5.910	99	6006	0.636 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 31.80%		
19) Nitrobenzene-d5	6.957	82	7747	0.802 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 80.20%		
46) 2-Fluorobiphenyl	8.863	172	18650	0.840 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 84.00%		
79) 2,4,6-Tribromophenol	10.269	330	5458	1.351 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 67.55%		
96) 4-Terphenyl-d14	12.527	244	35145	0.881 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 88.10%		

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-03.D
Acq On : 24 Sep 2024 6:23 pm
Operator : SV106:ek
Sample : L2453720-03,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 24 18:59:53 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-03.D
Acq On : 24 Sep 2024 6:23 pm
Operator : SV106:ek
Sample : L2453720-03,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 24 18:59:53 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

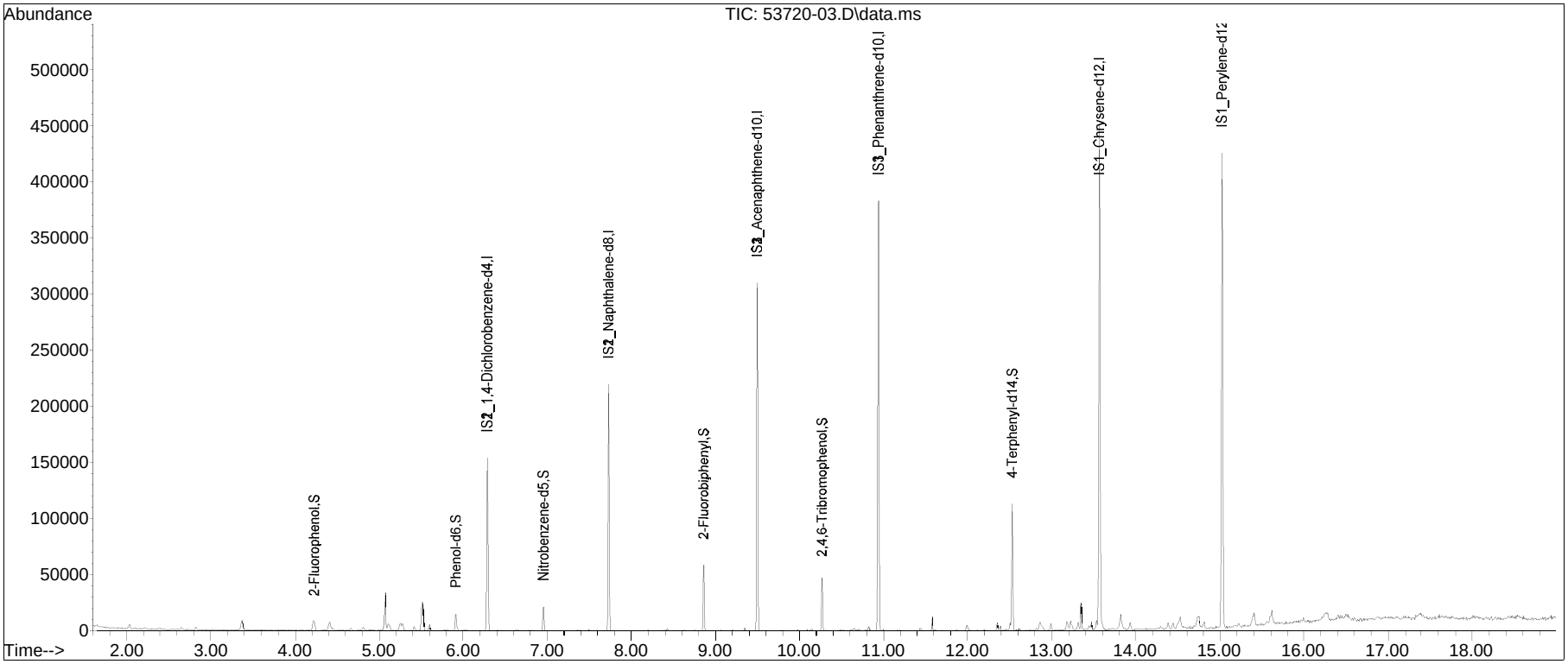
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-03.D
Acq On : 24 Sep 2024 6:23 pm
Operator : SV106:ek
Sample : L2453720-03,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 24 18:59:53 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240924RVT\	QMethod	: FS240624SV106.m
Data File	: 53720-03.D	Operator	: SV106:ek
Date Inj'd	: 9/24/2024 6:23 pm	Instrument	: SV 106
Sample	: L2453720-03,32,,HNY	Quant Date	: 9/24/2024 6:43 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-08.D
Acq On : 24 Sep 2024 6:28 pm
Operator : SV107:ek
Sample : L2453720-08,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 18:47:00 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.557	152	21752	4.000	ug/ml	0.00
Standard Area 1 = 19920			Recovery =	109.20%		
27) IS2_1,4-Dichlorobenzen...	6.557	152	21752	4.000	ug/ml	0.00
Standard Area 3 = 19336			Recovery =	112.49%		
35) IS1_Naphthalene-d8	7.969	136	80957	4.000	ug/ml	0.00
Standard Area 1 = 70855			Recovery =	114.26%		
55) IS2_Naphthalene-d8	7.969	136	80957	4.000	ug/ml	0.00
Standard Area 3 = 70002			Recovery =	115.65%		
63) IS1_Acenaphthene-d10	9.733	164	45845	4.000	ug/ml	0.00
Standard Area 1 = 40421			Recovery =	113.42%		
83) IS2_Acenaphthene-d10	9.733	164	45845	4.000	ug/ml	0.00
Standard Area 3 = 38608			Recovery =	118.74%		
86) IS3_Acenaphthene-d10	9.733	164	45845	4.000	ug/ml	0.00
Standard Area 2 = 39412			Recovery =	116.32%		
88) IS1_Phenanthrene-d10	11.168	188	84743	4.000	ug/ml	0.00
Standard Area 1 = 71763			Recovery =	118.09%		
100) IS3_Phenanthrene-d10	11.168	188	84743	4.000	ug/ml	0.00
Standard Area 2 = 73403			Recovery =	115.45%		
104) IS1_Chrysene-d12	13.821	240	70787	4.000	ug/ml	0.00
Standard Area 1 = 60563			Recovery =	116.88%		
113) IS1_Perylene-d12	15.304	264	68748	4.000	ug/ml	0.00
Standard Area 1 = 60747			Recovery =	113.17%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.745	112	2854	0.486	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	24.30%		
7) Phenol-d6	6.186	99	2742	0.357	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	17.85%		
19) Nitrobenzene-d5	7.204	82	3027	0.407	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	40.70%		
46) 2-Fluorobiphenyl	9.086	172	7998	0.439	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	43.90%		
79) 2,4,6-Tribromophenol	10.498	330	1473	0.686	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	34.30%		
96) 4-Terphenyl-d14	12.751	244	11774	0.588	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	58.80%		

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-08.D
Acq On : 24 Sep 2024 6:28 pm
Operator : SV107:ek
Sample : L2453720-08,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 18:47:00 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.		
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-08.D
Acq On : 24 Sep 2024 6:28 pm
Operator : SV107:ek
Sample : L2453720-08,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 18:47:00 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	
109) Di-n-octylphthalate	0.000		0		N.D.	

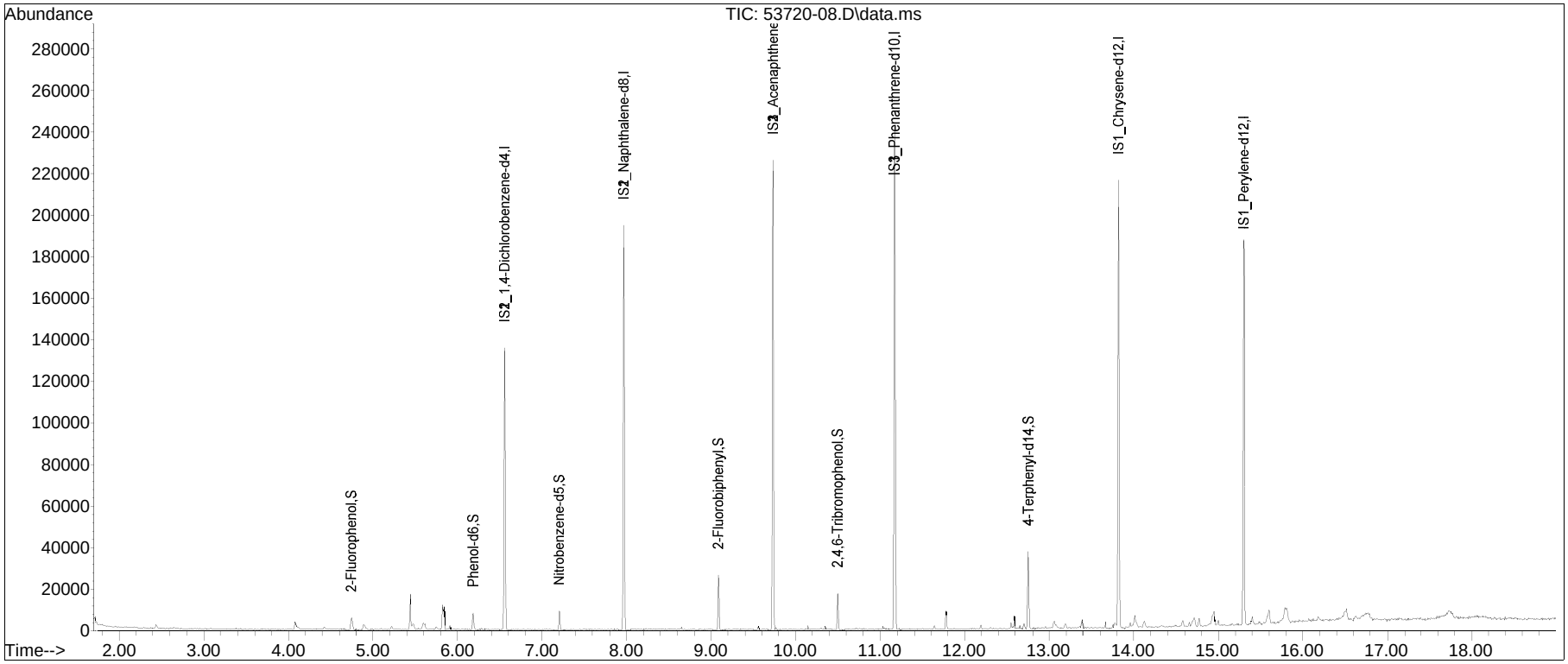
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-08.D
Acq On : 24 Sep 2024 6:28 pm
Operator : SV107:ek
Sample : L2453720-08,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 18:47:00 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240924RVT\	QMethod	: FS240730SV107RVT.m
Data File	: 53720-08.D	Operator	: SV107:ek
Date Inj'd	: 9/24/2024 6:28 pm	Instrument	: SV107
Sample	: L2453720-08,32,,HNY	Quant Date	: 9/24/2024 6:48 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-04.D
Acq On : 24 Sep 2024 6:47 pm
Operator : SV106:ek
Sample : L2453720-04,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 19:49:17 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.287	152	20706	4.000	ug/ml		0.00
Standard Area 1 = 24148			Recovery = 85.75%				
27) IS2_1,4-Dichlorobenzen...	6.287	152	20706	4.000	ug/ml		0.00
Standard Area 3 = 36467			Recovery = 56.78%				
35) IS1_Naphthalene-d8	7.728	136	74364	4.000	ug/ml		0.00
Standard Area 1 = 82755			Recovery = 89.86%				
55) IS2_Naphthalene-d8	7.728	136	74364	4.000	ug/ml		0.00
Standard Area 3 = 130613			Recovery = 56.93%				
63) IS1_Acenaphthene-d10	9.492	164	52376	4.000	ug/ml		0.00
Standard Area 1 = 56844			Recovery = 92.14%				
83) IS2_Acenaphthene-d10	9.492	164	52376	4.000	ug/ml		0.00
Standard Area 3 = 92349			Recovery = 56.72%				
86) IS3_Acenaphthene-d10	9.492	164	52376	4.000	ug/ml		0.00
Standard Area 2 = 61204			Recovery = 85.58%				
88) IS1_Phenanthrene-d10	10.939	188	118520	4.000	ug/ml		0.00
Standard Area 1 = 128731			Recovery = 92.07%				
100) IS3_Phenanthrene-d10	10.939	188	118520	4.000	ug/ml		0.00
Standard Area 2 = 132912			Recovery = 89.17%				
104) IS1_Chrysene-d12	13.563	240	153511	4.000	ug/ml	#	0.00
Standard Area 1 = 146328			Recovery = 104.91%				
113) IS1_Perylene-d12	15.021	264	165836	4.000	ug/ml		0.00
Standard Area 1 = 171391			Recovery = 96.76%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.210	112	4788	0.800	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.00%				
7) Phenol-d6	5.904	99	4812	0.587	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 29.35%				
19) Nitrobenzene-d5	6.951	82	6133	0.732	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 73.20%				
46) 2-Fluorobiphenyl	8.863	172	14192	0.743	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.30%				
79) 2,4,6-Tribromophenol	10.263	330	4626	1.417	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 70.85%				
96) 4-Terphenyl-d14	12.527	244	27892	0.875	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 87.50%				

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-04.D
Acq On : 24 Sep 2024 6:47 pm
Operator : SV106:ek
Sample : L2453720-04,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 19:49:17 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.	d	
53) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-04.D
Acq On : 24 Sep 2024 6:47 pm
Operator : SV106:ek
Sample : L2453720-04,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 19:49:17 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

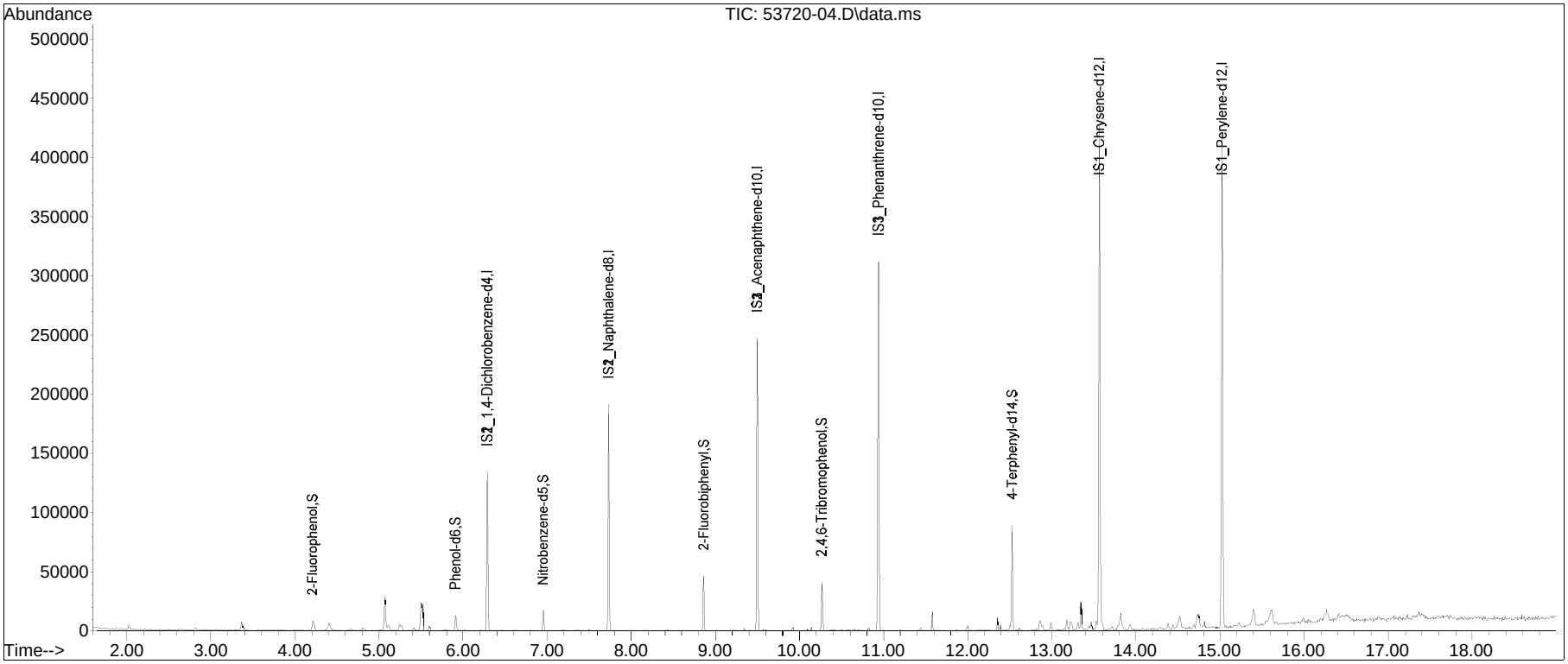
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 53720-04.D
Acq On : 24 Sep 2024 6:47 pm
Operator : SV106:ek
Sample : L2453720-04,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 24 19:49:17 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240924RVT\	QMethod	: FS240624SV106.m
Data File	: 53720-04.D	Operator	: SV106:ek
Date Inj'd	: 9/24/2024 6:47 pm	Instrument	: SV 106
Sample	: L2453720-04,32,,HNY	Quant Date	: 9/24/2024 7:07 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-09.D
Acq On : 24 Sep 2024 6:54 pm
Operator : SV107:ek
Sample : L2453720-09,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 19:12:20 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.557	152	22176	4.000	ug/ml	0.00
Standard Area 1 = 19920			Recovery =	111.33%		
27) IS2_1,4-Dichlorobenzen...	6.557	152	22176	4.000	ug/ml	0.00
Standard Area 3 = 19336			Recovery =	114.69%		
35) IS1_Naphthalene-d8	7.969	136	82760	4.000	ug/ml	0.00
Standard Area 1 = 70855			Recovery =	116.80%		
55) IS2_Naphthalene-d8	7.969	136	82760	4.000	ug/ml	0.00
Standard Area 3 = 70002			Recovery =	118.23%		
63) IS1_Acenaphthene-d10	9.733	164	45819	4.000	ug/ml	0.00
Standard Area 1 = 40421			Recovery =	113.35%		
83) IS2_Acenaphthene-d10	9.733	164	45819	4.000	ug/ml	0.00
Standard Area 3 = 38608			Recovery =	118.68%		
86) IS3_Acenaphthene-d10	9.733	164	45819	4.000	ug/ml	0.00
Standard Area 2 = 39412			Recovery =	116.26%		
88) IS1_Phenanthrene-d10	11.169	188	87953	4.000	ug/ml	0.00
Standard Area 1 = 71763			Recovery =	122.56%		
100) IS3_Phenanthrene-d10	11.169	188	87953	4.000	ug/ml	0.00
Standard Area 2 = 73403			Recovery =	119.82%		
104) IS1_Chrysene-d12	13.821	240	75735	4.000	ug/ml	0.00
Standard Area 1 = 60563			Recovery =	125.05%		
113) IS1_Perylene-d12	15.304	264	73922	4.000	ug/ml	0.00
Standard Area 1 = 60747			Recovery =	121.69%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.746	112	4008	0.669	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	33.45%		
7) Phenol-d6	6.187	99	3323	0.424	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	21.20%		
19) Nitrobenzene-d5	7.204	82	3887	0.513	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	51.30%		
46) 2-Fluorobiphenyl	9.086	172	9100	0.489	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	48.90%		
79) 2,4,6-Tribromophenol	10.504	330	1394	0.650	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	32.50%		
96) 4-Terphenyl-d14	12.751	244	12345	0.594	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	59.40%		

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-09.D
Acq On : 24 Sep 2024 6:54 pm
Operator : SV107:ek
Sample : L2453720-09,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 19:12:20 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	6.198	94	2051	0.236	ug/ml	93
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.		
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-09.D
Acq On : 24 Sep 2024 6:54 pm
Operator : SV107:ek
Sample : L2453720-09,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 19:12:20 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240924RVT\ABN0924.D
: 2 - I:\8270\SV107\240924RVT\ADP0924.D
: 3 - I:\8270\SV107\240924RVT\AP90924.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	
109) Di-n-octylphthalate	0.000		0		N.D.	

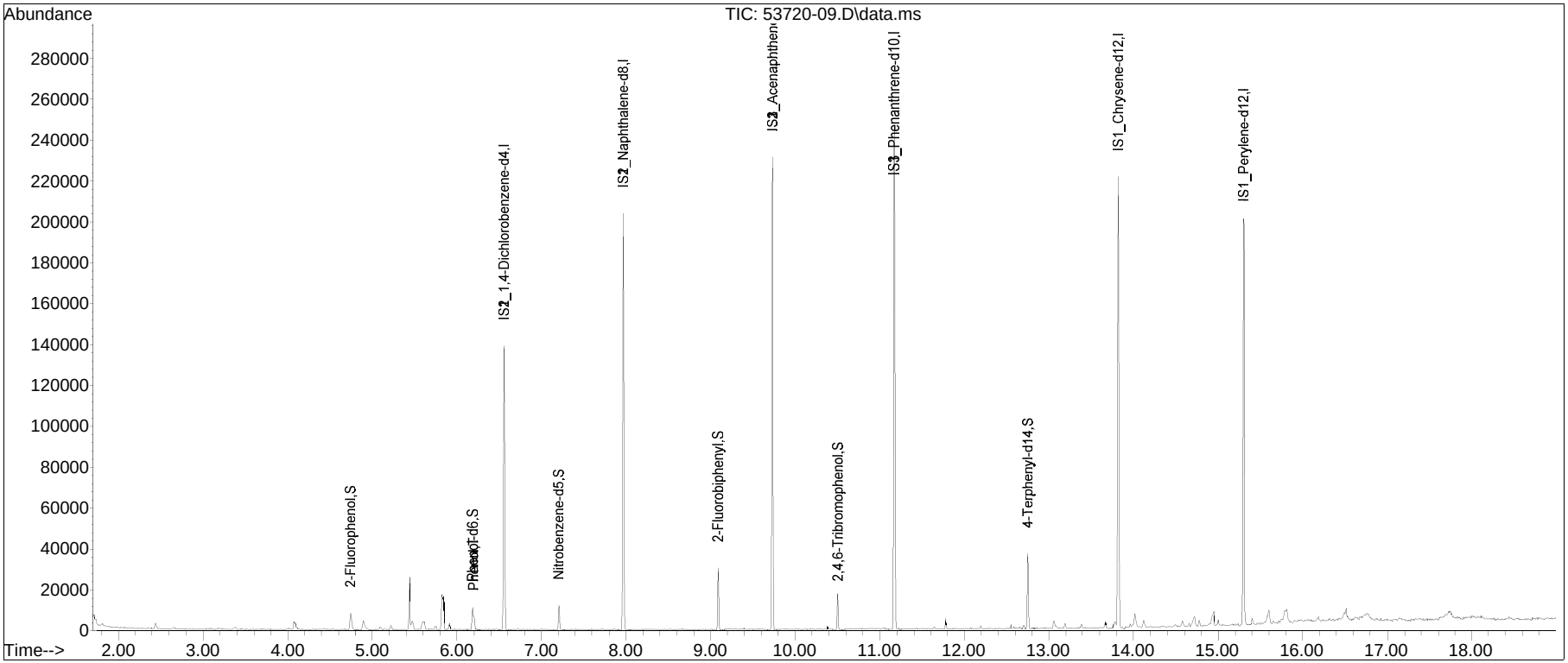
(#) = qualifier out of range (m) = manual integration (+) = signals summed

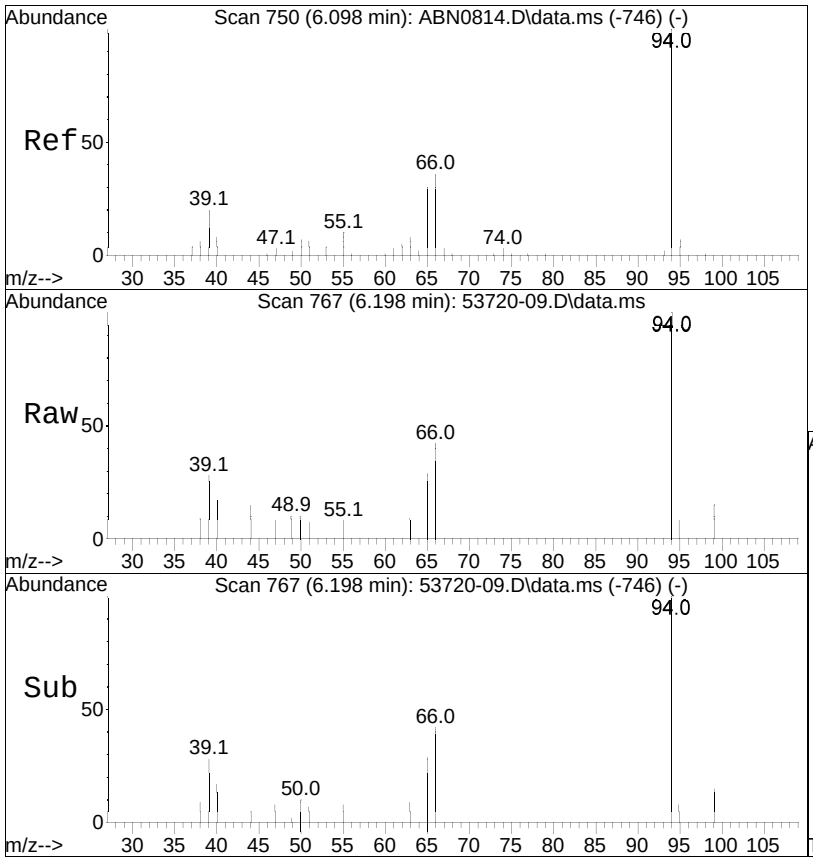
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : 53720-09.D
Acq On : 24 Sep 2024 6:54 pm
Operator : SV107:ek
Sample : L2453720-09,32,,HNY
Misc : WG1975560,WG1975324,ical21169
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 19:12:20 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 13:50:31 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90924.D•

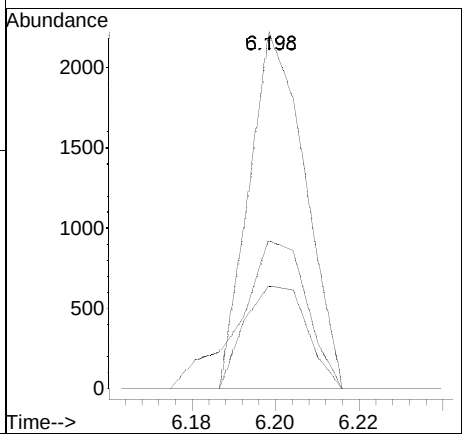




#8
Phenol
Concen: 0.24 ug/ml
RT: 6.198 min Scan# 767
Delta R.T. 0.000 min
Lab File: 53720-09.D
Acq: 24 Sep 2024 6:54 pm

Tgt Ion: 94 Resp: 2051

Ion	Ratio	Lower	Upper
94	100		
65	32.2	26.0	39.0
66	50.2	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\SV107\240924RVT\	QMethod	: FS240730SV107RVT.m
Data File	: 53720-09.D	Operator	: SV107:ek
Date Inj'd	: 9/24/2024 6:54 pm	Instrument	: SV107
Sample	: L2453720-09,32,,HNY	Quant Date	: 9/24/2024 7:13 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : 53720-02.D
Acq On : 25 Sep 2024 6:46 pm
Operator : SV107:ek
Sample : L2453720-02,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 25 20:09:54 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240925RVT\ABN0925.D
: 2 - I:\8270\SV107\240925RVT\ADP0925.D
: 3 - I:\8270\SV107\240925RVT\AP90925.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.539	152	22193	4.000	ug/ml	0.00
Standard Area 1 = 21684			Recovery =	102.35%		
27) IS2_1,4-Dichlorobenzen...	6.539	152	22193	4.000	ug/ml	0.00
Standard Area 3 = 22207			Recovery =	99.94%		
35) IS1_Naphthalene-d8	7.957	136	82397	4.000	ug/ml	0.00
Standard Area 1 = 77844			Recovery =	105.85%		
55) IS2_Naphthalene-d8	7.957	136	82397	4.000	ug/ml	0.00
Standard Area 3 = 80138			Recovery =	102.82%		
63) IS1_Acenaphthene-d10	9.716	164	46922	4.000	ug/ml	0.00
Standard Area 1 = 45627			Recovery =	102.84%		
83) IS2_Acenaphthene-d10	9.716	164	46922	4.000	ug/ml	0.00
Standard Area 3 = 45139			Recovery =	103.95%		
86) IS3_Acenaphthene-d10	9.716	164	46922	4.000	ug/ml	0.00
Standard Area 2 = 44867			Recovery =	104.58%		
88) IS1_Phenanthrene-d10	11.157	188	89206	4.000	ug/ml	0.00
Standard Area 1 = 84370			Recovery =	105.73%		
100) IS3_Phenanthrene-d10	11.157	188	89206	4.000	ug/ml	0.00
Standard Area 2 = 85159			Recovery =	104.75%		
104) IS1_Chrysene-d12	13.804	240	77947	4.000	ug/ml	0.00
Standard Area 1 = 82807			Recovery =	94.13%		
113) IS1_Perylene-d12	15.280	264	74156	4.000	ug/ml	0.00
Standard Area 1 = 83291			Recovery =	89.03%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.722	112	5513	0.920	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	46.00%		
7) Phenol-d6	6.169	99	4560	0.582	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	29.10%		
19) Nitrobenzene-d5	7.192	82	4813	0.634	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	63.40%		
46) 2-Fluorobiphenyl	9.075	172	11614	0.626	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	62.60%		
79) 2,4,6-Tribromophenol	10.486	330	1784	0.812	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	40.60%		
96) 4-Terphenyl-d14	12.739	244	12920	0.613	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	61.30%		

Data Path : I:\8270\SV107\240925RVT\
Data File : 53720-02.D
Acq On : 25 Sep 2024 6:46 pm
Operator : SV107:ek
Sample : L2453720-02,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 25 20:09:54 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240925RVT\ABN0925.D
: 2 - I:\8270\SV107\240925RVT\ADP0925.D
: 3 - I:\8270\SV107\240925RVT\AP90925.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	6.187	94	2570	0.296	ug/ml	92
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
38) 4-Chloroaniline	0.000		0	N.D.		
40) p-Chloro-m-cresol	0.000		0	N.D.		
43) Hexachlorocyclopentadiene	0.000		0	N.D.		
44) 2,4,6-Trichlorophenol	0.000		0	N.D.		
45) 2,4,5-Trichlorophenol	0.000		0	N.D.		
48) 2-Nitroaniline	0.000		0	N.D.		
51) Dimethyl phthalate	0.000		0	N.D.		
53) 2,6-Dinitrotoluene	0.000		0	N.D.		
60) Caprolactam	0.000		0	N.D.		
61) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
62) Biphenyl	0.000		0	N.D.		
64) 3-Nitroaniline	0.000		0	N.D.		
66) 2,4-Dinitrophenol	0.000		0	N.D.		
67) Dibenzofuran	0.000		0	N.D.		
68) 2,4-Dinitrotoluene	0.000		0	N.D.		
69) 4-Nitrophenol	0.000		0	N.D.		
72) Diethyl phthalate	0.000		0	N.D.		
74) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
75) 4-Nitroaniline	0.000		0	N.D.		
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Data Path : I:\8270\SV107\240925RVT\
Data File : 53720-02.D
Acq On : 25 Sep 2024 6:46 pm
Operator : SV107:ek
Sample : L2453720-02,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 25 20:09:54 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240925RVT\ABN0925.D
: 2 - I:\8270\SV107\240925RVT\ADP0925.D
: 3 - I:\8270\SV107\240925RVT\AP90925.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	0.000		0		N.D.	
91) Carbazole	0.000		0		N.D.	
92) Di-n-butylphthalate	0.000		0		N.D.	
97) Butyl benzyl phthalate	0.000		0		N.D.	
106) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
108) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
109) Di-n-octylphthalate	0.000		0		N.D.	d

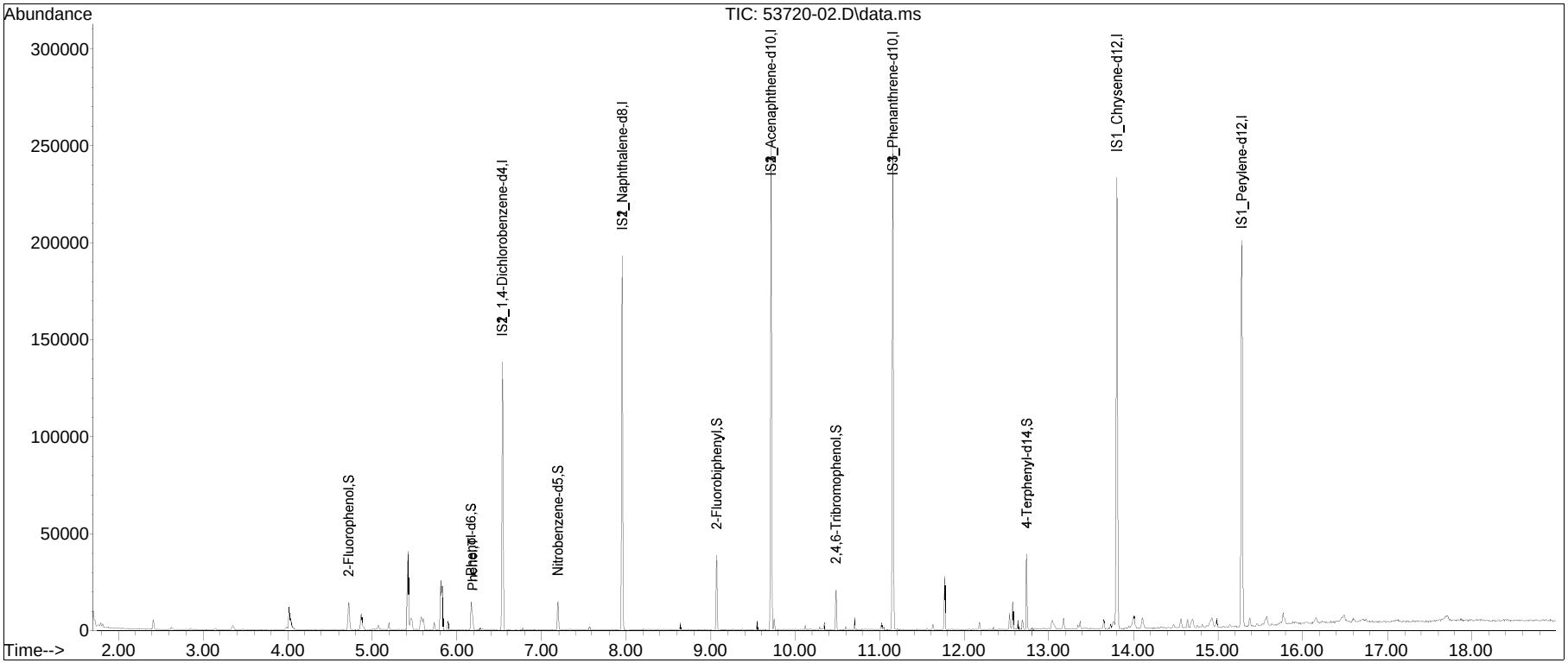
(#) = qualifier out of range (m) = manual integration (+) = signals summed

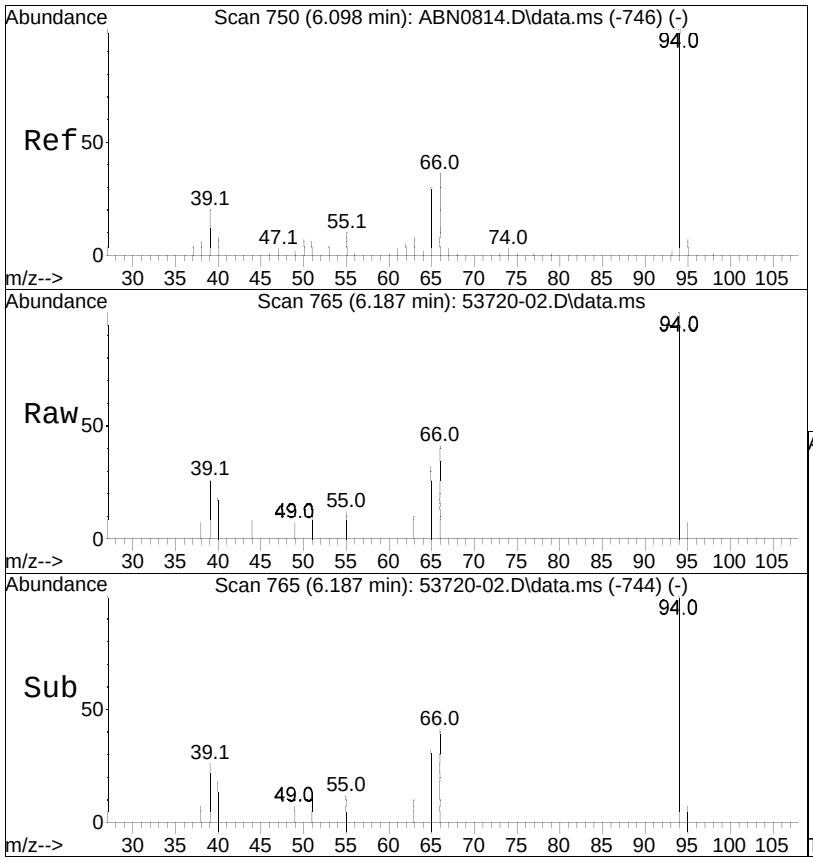
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : 53720-02.D
Acq On : 25 Sep 2024 6:46 pm
Operator : SV107:ek
Sample : L2453720-02,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 25 20:09:54 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90925.D•

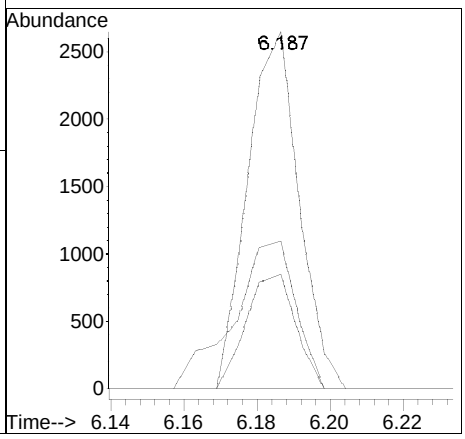




#8
Phenol
Concen: 0.30 ug/ml
RT: 6.187 min Scan# 765
Delta R.T. 0.000 min
Lab File: 53720-02.D
Acq: 25 Sep 2024 6:46 pm

Tgt Ion: 94 Resp: 2570

Ion	Ratio	Lower	Upper
94	100		
65	31.1	26.0	39.0
66	50.4	33.8	50.8



Manual Integration Report

Data Path	: I:\8270\SV107\240925RVT\	QMethod	: FS240730SV107RVT.m
Data File	: 53720-02.D	Operator	: SV107:ek
Date Inj'd	: 9/25/2024 6:46 pm	Instrument	: SV107
Sample	: L2453720-02,32,,mrg	Quant Date	: 9/25/2024 7:06 pm

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.659	0.739	0.752	0.641	0.668	0.690	0.727	0.727	0.732	0.704	5.69
3)	t	Pyridine		1.316	1.325	1.070	1.126	1.152	1.185	1.208	1.213	1.199	7.32
4)	S	2-Fluorophenol	1.034	1.081	1.155	0.964	1.016	1.037	1.109	1.105	1.120	1.069	5.64
5)	T	Aniline	1.687	1.734	1.822	1.574	1.612	1.631	1.778	1.767	1.812	1.713	5.30
6)	t	2-Chlorophenol	1.179	1.224	1.263	1.020	1.098	1.126	1.218	1.225	1.253	1.178	6.89
7)	S	Phenol-d6	1.278	1.335	1.459	1.201	1.240	1.264	1.354	1.363	1.402	1.322	6.26
8)	T	Phenol	1.406	1.526	1.559	1.291	1.349	1.358	1.464	1.467	1.523	1.438	6.41
9)	T	bis(2-Chloroethyl)ether	1.250	1.343	1.302	1.036	1.078	1.092	1.189	1.171	1.206	1.185	8.74
10)	T	1,3-Dichlorobenzene	1.520	1.599	1.506	1.281	1.350	1.362	1.480	1.467	1.500	1.452	6.91
11)	T	1,4-Dichlorobenzene	1.519	1.712	1.553	1.305	1.361	1.387	1.479	1.469	1.515	1.478	8.11
12)	T	1,2-Dichlorobenzene	1.523	1.524	1.499	1.271	1.316	1.337	1.438	1.446	1.477	1.426	6.64
13)	t	Benzyl alcohol	0.983	1.013	1.035	0.892	0.918	0.948	1.041	1.068	1.105	1.000	7.08
14)	T	bis(2-chloroisopropyl)ether	1.700	1.723	1.762	1.433	1.473	1.502	1.662	1.658	1.695	1.623	7.43
15)	T	2-Methylphenol	1.015	1.022	1.072	0.906	0.949	0.992	1.080	1.097	1.145	1.031	7.32
16)	T	Hexachloroethane	0.564	0.574	0.599	0.476	0.490	0.517	0.560	0.554	0.571	0.545	7.60
17)	T	n-Nitrosodi-n-propylamine	0.915	0.891	0.880	0.787	0.817	0.835	0.919	0.922	0.948	0.879	6.20
18)	T	3-Methylphenol/4-Methylphenol	0.950	1.121	1.084	0.986	1.020	1.081	1.148	1.161	1.207	1.084	7.87
19)	S	Nitrobenzene-d5	1.086	1.168	1.154	1.010	1.068	1.154	1.252	1.286	1.303	1.165	8.65
20)	T	Nitrobenzene	1.134	1.157	1.216	1.047	1.112	1.187	1.290	1.296	1.332	1.197	7.95
21)	T	Isophorone	2.159	2.232	2.371	2.159	2.198	2.247	2.470	2.450	2.506	2.310	6.04
22)	T	2-Nitrophenol				0.395	0.468	0.498	0.584	0.619	0.635	0.533	17.81
23)	T	2,4-Dimethylphenol	1.049	1.057	1.116	1.007	1.025	1.054	1.126	1.146	1.208	1.088	6.01
24)	T	bis(2-Chloroethoxy)methane	1.538	1.541	1.569	1.414	1.406	1.410	1.558	1.547	1.585	1.508	4.95
25)	T	2,4-Dichlorophenol	0.960	1.048	1.114	0.980	1.043	1.092	1.181	1.191	1.236	1.094	8.75
26)	T	1,2,4-Trichlorobenzene	1.385	1.429	1.413	1.145	1.228	1.221	1.336	1.343	1.367	1.318	7.42
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.042	1.090	1.002	1.018	0.972	0.961	1.028	1.023	1.078	1.024	4.21
29)	T	Acetophenone	1.757	1.693	1.775	1.718	1.676	1.701	1.823	1.839	1.949	1.770	4.98
30)	T	m-Toluidine	1.089	1.425	1.582	1.564	1.596	1.637	1.765	1.831	1.903	1.599	15.11
31)	T	2-Chloroaniline	1.488	1.575	1.472	1.473	1.477	1.505	1.601	1.616	1.711	1.546	5.45
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	T	n-Decane	1.520	1.486	1.462	1.525	1.368	1.337	1.406	1.417	1.504	1.447	4.71
34)	I	IS1_Naphthalene-d8	----------ISTD----------										
35)	T	Naphthalene	1.083	1.118	1.062	0.891	0.943	0.924	0.975	0.964	1.002	0.996	7.74
36)	T	Benzoic Acid					0.124	0.165	0.205	0.229	0.243	*L	0.9992

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) T	4-Chloroaniline	0.129	0.121	0.129	0.115	0.123	0.120	0.130	0.129	0.135	0.126	4.95
38) T	Hexachlorobutadiene	0.214	0.247	0.227	0.181	0.194	0.196	0.215	0.207	0.214	0.211	9.32
39) T	p-Chloro-m-cresol	0.249	0.255	0.255	0.255	0.263	0.274	0.297	0.295	0.307	0.272	8.12
40) T	2-Methylnaphthalene	0.695	0.742	0.720	0.635	0.643	0.655	0.701	0.682	0.724	0.688	5.50
41) T	1-Methylnaphthalene	0.242	0.253	0.245	0.217	0.222	0.220	0.239	0.232	0.243	0.235	5.40
42) T	Hexachlorocyclopentadiene	0.181	0.215	0.200	0.169	0.191	0.196	0.225	0.231	0.239	0.205	11.50
43) T	2,4,6-Trichlorophenol	0.188	0.227	0.228	0.215	0.230	0.242	0.264	0.257	0.279	0.237	11.57
44) T	2,4,5-Trichlorophenol	0.220	0.240	0.243	0.225	0.245	0.256	0.273	0.278	0.279	0.251	8.74
45) S	2-Fluorobiphenyl	0.900	0.914	0.940	0.791	0.820	0.822	0.877	0.856	0.873	0.866	5.61
46) T	2-Chloronaphthalene	0.713	0.793	0.758	0.653	0.673	0.675	0.722	0.710	0.741	0.715	6.24
47) T	2-Nitroaniline			0.144	0.135	0.150	0.174	0.196	0.201	0.211	0.173	17.54
48) T	1,4-Dinitrobenzene					0.066	0.076	0.092	0.097	0.104	0.087	18.10
49) T	1,3-Dinitrobenzene					0.084	0.099	0.112	0.120	0.128	0.109	15.85
50) T	Dimethyl phthalate	0.827	0.896	0.845	0.791	0.805	0.809	0.851	0.848	0.877	0.839	4.10
51) T	Acenaphthylene	1.034	1.123	1.090	1.004	1.020	1.050	1.132	1.117	1.145	1.079	4.93
52) T	2,6-Dinitrotoluene			0.116	0.124	0.145	0.159	0.171	0.174	0.178	0.153	16.32
53) T	1,2-Dinitrobenzene			0.053	0.055	0.064	0.070	0.076	0.078	0.081	0.068	16.41
54) I	IS2_Naphthalene-d8	----------ISTD----------										
55) T	a-Terpineol	0.273	0.249	0.277	0.273	0.260	0.258	0.287	0.300	0.310	0.276	7.15
56) T	3-Chloroaniline	0.129	0.147	0.149	0.148	0.147	0.140	0.151	0.156	0.159	0.147	6.14
57) T	2,6-Dichlorophenol	0.238	0.256	0.283	0.276	0.285	0.281	0.317	0.331	0.343	0.290	11.85
58) T	1-chloro-2-nitrobenzene	0.102	0.121	0.114	0.108	0.113	0.111	0.133	0.142	0.147	0.121	13.04
59) T	Caprolactam				0.125	0.133	0.142	0.161	0.167	0.167	0.149	12.11
60) T	1,2,4,5-Tetrachlorobenzene	0.422	0.408	0.419	0.393	0.382	0.368	0.397	0.410	0.419	0.402	4.58
61) T	Biphenyl	0.924	0.964	0.962	0.896	0.893	0.854	0.918	0.969	0.982	0.929	4.65
62) I	IS1_Acenaphthene-d10	----------ISTD----------										
63) T	3-Nitroaniline			0.216	0.207	0.251	0.257	0.283	0.289	0.313	0.259	14.84
64) T	Acenaphthene	1.135	1.206	1.151	1.031	0.986	0.974	1.060	1.061	1.126	1.081	7.24
65) T	2,4-Dinitrophenol				0.061	0.096	0.113	0.138	0.155	0.179	*L	0.9922
66) T	Dibenzofuran	1.883	1.958	1.830	1.645	1.680	1.604	1.751	1.677	1.782	1.757	6.69
67) T	2,4-Dinitrotoluene			0.248	0.253	0.303	0.325	0.375	0.394	0.436	*L	0.9948
68) T	4-Nitrophenol				0.179	0.210	0.207	0.238	0.236	0.259	0.221	12.91
69) T	2,3,5,6-Tetrachlorophenol	0.221	0.289	0.313	0.285	0.326	0.322	0.366	0.353	0.384	0.318	15.48
70) T	2,3,4,6-Tetrachlorophenol	0.253	0.289	0.296	0.291	0.322	0.322	0.350	0.337	0.363	0.314	11.01
71) T	Diethyl phthalate	1.336	1.322	1.369	1.203	1.280	1.196	1.330	1.277	1.400	1.301	5.33
72) T	Fluorene	1.372	1.431	1.383	1.243	1.281	1.233	1.333	1.273	1.405	1.328	5.52

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
73)	T	4-Chlorophenyl-phenylether	0.725	0.721	0.710	0.627	0.647	0.614	0.678	0.631	0.694	0.672	6.41	
74)	T	4-Nitroaniline			0.211	0.220	0.257	0.251	0.300	0.293	0.306	0.262	14.62	
75)	T	4,6-Dinitro-o-cresol			0.085	0.096	0.138	0.156	0.205	0.213	0.243		*L	0.9911
76)	T	NDPA/DPA	1.102	1.197	1.200	1.057	1.107	1.057	1.152	1.093	1.217	1.131	5.49	
77)	T	Azobenzene	1.261	1.308	1.303	1.184	1.229	1.197	1.301	1.229	1.321	1.259	4.08	
78)	S	2,4,6-Tribromophenol	0.102	0.159	0.167	0.168	0.173	0.176	0.199	0.185	0.205	0.171	17.42	
79)	T	4-Bromophenyl-phenylether	0.407	0.423	0.403	0.335	0.357	0.346	0.376	0.354	0.386	0.376	8.09	
80)	T	Hexachlorobenzene	0.490	0.487	0.452	0.412	0.407	0.390	0.420	0.395	0.424	0.431	8.66	
81)	T	Pentachlorophenol				0.183	0.237	0.237	0.276	0.271	0.307	0.252	17.04	
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran				0.083	0.102	0.113	0.147	0.180	0.197		*Q	0.9978
84)	T	Pentachloronitrobenzene				0.105	0.122	0.133	0.161	0.181	0.194		*Q	0.9990
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine		0.287	0.298	0.345	0.329	0.356	0.389	0.427		0.347	14.16	
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.101	1.140	1.129	0.982	0.977	0.946	1.018	1.004	1.045	1.038	6.77	
89)	T	Anthracene	1.033	1.102	1.077	0.952	0.981	0.943	1.057	1.033	1.089	1.030	5.70	
90)	T	Carbazole	0.855	0.947	0.955	0.888	0.900	0.879	0.967	0.963	1.000	0.928	5.26	
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82	
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65	
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68	
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13	
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29	
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573		*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19	
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02	
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124		*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#	
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68	
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76	
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42	
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918			*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571			*L	0.9918

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21169**
Calibration dates	**: 06/02/24 19:34 06/03/24 07:50**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17
110)	T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94
111)	T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81
114)	T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41
115)	T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21231**
Calibration dates	**: 06/24/24 16:56 06/25/24 04:24**		

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.938	0.956	0.854	0.853	0.774	0.776	0.841	0.822	0.847	0.851	7.32
3)	t	Pyridine	1.526	1.555	1.355	1.366	1.292	1.282	1.394	1.350	1.411	1.392	6.76
4)	S	2-Fluorophenol	1.089	1.386	1.143	1.143	1.065	1.079	1.163	1.151	1.186	1.156	8.25
5)	T	Aniline	2.443	2.265	1.992	1.939	1.902	1.866	1.994	1.977	2.059	2.049	9.15
6)	t	2-Chlorophenol	1.386	1.452	1.391	1.240	1.207	1.148	1.258	1.242	1.266	1.288	7.73
7)	S	Phenol-d6	1.942	1.694	1.620	1.534	1.453	1.415	1.522	1.518	1.547	1.583	9.98
8)	T	Phenol	1.941	1.738	1.608	1.689	1.523	1.491	1.603	1.574	1.610	1.642	8.23
9)	T	bis(2-Chloroethyl)ether	1.531	1.511	1.439	1.305	1.256	1.224	1.308	1.272	1.289	1.348	8.51
10)	T	1,3-Dichlorobenzene	1.770	1.860	1.537	1.485	1.464	1.395	1.479	1.444	1.484	1.546	10.25
11)	T	1,4-Dichlorobenzene	1.885	1.638	1.678	1.555	1.449	1.398	1.506	1.482	1.494	1.565	9.52
12)	T	1,2-Dichlorobenzene	1.871	1.694	1.613	1.485	1.397	1.362	1.429	1.421	1.428	1.522	11.13
13)	t	Benzyl alcohol	1.371	1.433	1.236	1.188	1.183	1.159	1.257	1.271	1.309	1.267	7.18
14)	T	bis(2-chloroisopropyl)ether	2.653	2.552	2.257	2.073	2.015	1.932	2.079	1.986	1.948	2.166	12.30
15)	T	2-Methylphenol	1.300	1.270	1.235	1.174	1.110	1.086	1.178	1.131	1.160	1.183	6.14
16)	T	Hexachloroethane	0.743	0.741	0.665	0.601	0.559	0.541	0.597	0.572	0.585	0.623	12.20
17)	T	n-Nitrosodi-n-propylamine	1.092	1.105	1.007	1.074	1.024	0.994	1.084	1.053	1.080	1.057	3.76
18)	T	3-Methylphenol/4-Methylphenol	1.363	1.465	1.312	1.247	1.165	1.157	1.277	1.243	1.280	1.279	7.46
19)	S	Nitrobenzene-d5	1.858	1.740	1.746	1.543	1.455	1.453	1.603	1.562	1.608	1.619	8.50
20)	T	Nitrobenzene	2.001	1.775	1.612	1.641	1.491	1.459	1.644	1.560	1.605	1.643	9.91
21)	T	Isophorone	3.029	2.785	2.705	2.724	2.638	2.597	2.820	2.731	2.813	2.760	4.54
22)	T	2-Nitrophenol	0.681	0.806	0.655	0.635	0.660	0.645	0.712	0.705	0.728	0.692	7.72
23)	T	2,4-Dimethylphenol	1.634	1.347	1.227	1.258	1.205	1.186	1.292	1.260	1.305	1.301	10.34
24)	T	bis(2-Chloroethoxy)methane	2.153	2.035	1.866	1.675	1.631	1.604	1.731	1.640	1.664	1.778	11.08
25)	T	2,4-Dichlorophenol	1.380	1.311	1.180	1.195	1.162	1.144	1.245	1.226	1.254	1.233	6.11
26)	T	1,2,4-Trichlorobenzene	1.956	1.639	1.621	1.445	1.368	1.313	1.454	1.378	1.416	1.510	13.26
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.111	1.153	1.214	1.183	1.184	1.173	1.252	1.213	1.203	1.187	3.40
29)	T	Acetophenone	2.005	2.209	2.136	2.188	2.132	2.136	2.286	2.165	2.167	2.158	3.47
30)	T	m-Toluidine	1.720	2.008	1.857	1.996	1.941	1.939	2.087	2.049	2.015	1.957	5.70
31)	T	2-Chloroaniline	1.443	1.808	1.812	1.652	1.707	1.684	1.822	1.726	1.729	1.709	6.81
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	t	1,4-Dioxane	0.788	0.714	0.628	0.587	0.537	0.492	0.510	0.488	0.517	0.584	18.21
34)	T	n-Decane	1.716	1.735	1.686	1.811	1.628	1.542	1.639	1.564	1.638	1.662	5.08
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.303	1.431	1.242	1.087	1.054	1.010	1.077	1.039	1.079	1.147	12.58

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21231**
Calibration dates	**: 06/24/24 16:56 06/25/24 04:24**		

Calibration Files

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

L8 =ADPL8.D L9 =ADPL9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37)	T	Benzoic Acid			0.131	0.164	0.227	0.258	0.303	0.315	0.334	*Q	0.9992
38)	T	4-Chloroaniline	0.173	0.208	0.167	0.154	0.164	0.158	0.169	0.162	0.167	0.169	9.29
39)	T	Hexachlorobutadiene	0.385	0.392	0.325	0.271	0.271	0.262	0.278	0.267	0.273	0.303	17.22
40)	T	p-Chloro-m-cresol	0.374	0.367	0.322	0.323	0.324	0.322	0.351	0.345	0.357	0.343	6.06
41)	T	2-Methylnaphthalene	0.892	0.877	0.774	0.747	0.728	0.691	0.731	0.704	0.734	0.764	9.47
42)	T	1-Methylnaphthalene	0.299	0.327	0.311	0.289	0.272	0.266	0.285	0.276	0.287	0.290	6.72
43)	T	Hexachlorocyclopentadiene	0.378	0.376	0.313	0.337	0.315	0.311	0.335	0.323	0.334	0.336	7.62
44)	T	2,4,6-Trichlorophenol	0.308	0.327	0.297	0.279	0.295	0.283	0.310	0.293	0.312	0.301	5.04
45)	T	2,4,5-Trichlorophenol	0.348	0.309	0.337	0.309	0.317	0.311	0.329	0.314	0.323	0.322	4.32
46)	S	2-Fluorobiphenyl	1.238	1.188	1.067	0.970	0.976	0.920	0.987	0.926	0.972	1.027	11.12
47)	T	2-Chloronaphthalene	0.931	0.978	0.829	0.784	0.761	0.738	0.778	0.744	0.771	0.813	10.49
48)	T	2-Nitroaniline	0.268	0.254	0.237	0.225	0.230	0.233	0.256	0.246	0.254	0.245	5.94
49)	T	1,4-Dinitrobenzene	0.102	0.146	0.128	0.126	0.121	0.122	0.139	0.136	0.140	0.129	10.28
50)	T	1,3-Dinitrobenzene	0.169	0.131	0.141	0.145	0.139	0.143	0.157	0.148	0.148	0.147	7.48
51)	T	Dimethyl phthalate	1.130	1.111	1.037	0.925	0.941	0.923	0.970	0.913	0.952	0.989	8.42
52)	T	Acenaphthylene	1.297	1.377	1.312	1.193	1.179	1.169	1.255	1.182	1.232	1.244	5.79
53)	T	2,6-Dinitrotoluene	0.236	0.213	0.202	0.202	0.210	0.206	0.221	0.209	0.216	0.213	5.02
54)	T	1,2-Dinitrobenzene	0.096	0.089	0.094	0.088	0.086	0.089	0.095	0.090	0.092	0.091	3.82
55)	I	IS2_Naphthalene-d8	----------ISTD----------										
56)	T	a-Terpineol	0.395	0.407	0.383	0.389	0.397	0.396	0.419	0.409	0.406	0.400	2.77
57)	T	3-Chloroaniline	0.202	0.187	0.203	0.200	0.200	0.199	0.208	0.203	0.203	0.201	2.82
58)	T	2,6-Dichlorophenol	0.300	0.375	0.339	0.357	0.362	0.374	0.392	0.378	0.378	0.362	7.68
59)	T	1-chloro-2-nitrobenzene	0.152	0.179	0.191	0.180	0.180	0.185	0.189	0.183	0.184	0.180	6.36
60)	T	Caprolactam	0.150	0.175	0.213	0.215	0.213	0.225	0.244	0.230	0.227	0.210	14.05
61)	T	1,2,4,5-Tetrachlorobenzene	0.596	0.583	0.579	0.544	0.531	0.530	0.537	0.516	0.519	0.548	5.43
62)	T	Biphenyl	1.132	1.104	1.120	1.094	1.057	1.061	1.093	1.046	1.050	1.084	2.94
63)	I	IS1_Acenaphthene-d10	----------ISTD----------										
64)	T	3-Nitroaniline	0.248	0.338	0.326	0.319	0.317	0.318	0.331	0.337	0.341	0.319	8.83
65)	T	Acenaphthene	1.363	1.314	1.204	1.106	1.083	1.042	1.074	1.080	1.107	1.153	9.97
66)	T	2,4-Dinitrophenol			0.174	0.168	0.187	0.215	0.242	0.250	0.257	0.213	17.56
67)	T	Dibenzofuran	2.377	2.261	1.986	1.905	1.815	1.738	1.800	1.748	1.794	1.936	12.00
68)	T	2,4-Dinitrotoluene	0.506	0.560	0.460	0.452	0.441	0.460	0.460	0.463	0.471	0.475	7.73
69)	T	4-Nitrophenol	0.282	0.331	0.331	0.326	0.316	0.305	0.329	0.346	0.345	0.323	6.20
70)	T	2,3,5,6-Tetrachlorophenol	0.441	0.426	0.460	0.443	0.456	0.437	0.464	0.465	0.478	0.452	3.65
71)	T	2,3,4,6-Tetrachlorophenol	0.385	0.451	0.449	0.425	0.445	0.431	0.437	0.442	0.448	0.435	4.74
72)	T	Diethyl phthalate	1.707	1.826	1.602	1.465	1.488	1.399	1.423	1.414	1.441	1.529	9.81

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21231**
Calibration dates	**: 06/24/24 16:56 06/25/24 04:24**		

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73)	T	Fluorene	1.829	1.686	1.572	1.487	1.429	1.398	1.444	1.412	1.445	1.523	9.66
74)	T	4-Chlorophenyl-phenylether	0.920	0.966	0.887	0.754	0.766	0.703	0.750	0.723	0.745	0.801	11.96
75)	T	4-Nitroaniline	0.301	0.357	0.373	0.348	0.342	0.309	0.321	0.322	0.318	0.333	7.13
76)	T	4,6-Dinitro-o-cresol	0.180	0.212	0.253	0.269	0.274	0.278	0.297	0.314	0.317	0.266	17.15
77)	T	NDPA/DPA	1.353	1.467	1.261	1.271	1.207	1.192	1.215	1.189	1.208	1.263	7.35
78)	T	Azobenzene	1.586	1.589	1.442	1.406	1.365	1.340	1.427	1.407	1.451	1.446	6.06
79)	S	2,4,6-Tribromophenol	0.233	0.268	0.232	0.253	0.245	0.244	0.253	0.252	0.264	0.249	4.96
80)	T	4-Bromophenyl-phenylether	0.570	0.626	0.473	0.489	0.472	0.452	0.479	0.464	0.474	0.500	11.64
81)	T	Hexachlorobenzene	0.612	0.703	0.623	0.558	0.532	0.505	0.528	0.526	0.532	0.569	11.29
82)	T	Pentachlorophenol	0.346	0.345	0.300	0.323	0.361	0.371	0.392	0.404	0.409	0.361	10.19
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran	0.212	0.234	0.218	0.220	0.232	0.262	0.276	0.284	0.287	0.247	12.11
85)	T	Pentachloronitrobenzene	0.234	0.253	0.232	0.279	0.261	0.290	0.299	0.290	0.294	0.270	9.62
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine	0.569	0.477	0.491	0.517	0.491	0.463	0.513	0.526	0.531	0.509	6.32
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.330	1.366	1.146	1.122	0.987	0.987	1.054	1.012	1.050	1.117	12.71
90)	T	Anthracene	1.346	1.213	1.150	1.084	0.998	1.020	1.080	1.029	1.074	1.111	9.97
91)	T	Carbazole	1.222	1.101	1.027	1.019	0.920	0.926	0.999	0.969	0.976	1.018	9.28
92)	T	Di-n-butylphthalate	1.297	1.305	1.177	1.136	1.122	1.124	1.225	1.169	1.201	1.195	5.79
93)	T	Fluoranthene	1.673	1.551	1.365	1.334	1.226	1.231	1.329	1.288	1.296	1.366	10.96
94)	T	Benzidine	0.623	0.736	0.752	0.737	0.709	0.734	0.804	0.785	0.794	0.741	7.34
95)	T	Pyrene	1.722	1.662	1.471	1.406	1.298	1.301	1.394	1.337	1.368	1.440	10.65
96)	S	4-Terphenyl-d14	1.271	1.253	1.090	1.079	0.978	0.959	1.041	1.000	1.009	1.076	10.62
97)	T	Butyl benzyl phthalate	0.640	0.593	0.508	0.530	0.503	0.501	0.562	0.553	0.561	0.550	8.39
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.449	0.557	0.590	0.563	0.545	0.570	0.595	0.598	0.585	0.561	8.15
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane	0.566	0.464	0.504	0.501	0.489	0.462	0.516	0.501	0.475	0.498	6.39
102)	T	Parathion	0.111	0.129	0.128	0.108	0.110	0.113	0.132	0.142	0.145	0.124	11.46
103)	T	3,3'-Dimethylbenzidine	0.534	0.640	0.710	0.782	0.830	0.801	0.917	0.934	0.966	0.791	18.10
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.886	1.694	1.517	1.409	1.348	1.308	1.417	1.345	1.379	1.478	13.03
106)	T	3,3'-Dichlorobenzidine	0.472	0.521	0.444	0.457	0.464	0.489	0.527	0.507	0.521	0.489	6.37
107)	T	Chrysene	1.853	1.775	1.481	1.363	1.296	1.258	1.301	1.256	1.277	1.429	16.08
108)	T	bis(2-Ethylhexyl)phthalate	0.892	0.841	0.769	0.757	0.799	0.796	0.849	0.817	0.835	0.817	5.15

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL21231**
Calibration dates	**: 06/24/24 16:56 06/25/24 04:24**		

Calibration Files

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109)	T	Di-n-octylphthalate	1.452	1.362	1.285	1.241	1.299	1.297	1.432	1.390	1.413	1.352	5.49
110)	T	Benzo(b)fluoranthene	1.696	1.671	1.537	1.403	1.294	1.235	1.381	1.329	1.326	1.430	11.62
111)	T	Benzo(k)fluoranthene	1.681	1.662	1.379	1.328	1.239	1.269	1.288	1.171	1.188	1.356	14.02
112)	T	Benzo(a)pyrene	1.402	1.440	1.283	1.193	1.133	1.161	1.230	1.175	1.157	1.242	8.96
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.309	1.196	1.123	1.101	1.076	1.040	1.130	0.901	0.862	1.082	12.71
115)	T	Dibenzo[a,h]anthracene	1.237	1.190	1.068	1.055	1.022	0.999	1.041	0.883	0.880	1.042	11.47
116)	T	Benzo(g,h,i)perylene	1.225	1.168	1.042	1.002	0.980	0.938	0.975	0.728	0.620	0.964	19.83

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine		0.624	0.767	0.690	0.709	0.713	0.729	0.717	0.734	0.710	5.84
3)	t	Pyridine		0.926	1.093	1.046	1.076	1.192	1.133	1.066	1.160	1.086	7.50
4)	S	2-Fluorophenol		0.970	1.079	1.023	1.072	1.084	1.124	1.101	1.186	1.080	5.97
5)	T	Aniline	1.690	1.824	1.749	1.712	1.707	1.641	1.829	1.825	1.908	1.765	4.86
6)	t	2-Chlorophenol	1.239	1.274	1.314	1.229	1.265	1.234	1.342	1.348	1.403	1.294	4.70
7)	S	Phenol-d6	1.250	1.403	1.443	1.386	1.371	1.328	1.476	1.493	1.566	1.413	6.68
8)	T	Phenol	1.525	1.651	1.602	1.506	1.512	1.452	1.578	1.599	1.673	1.566	4.64
9)	T	bis(2-Chloroethyl)ether	1.334	1.365	1.296	1.197	1.159	1.116	1.235	1.237	1.286	1.247	6.54
10)	T	1,3-Dichlorobenzene	1.625	1.839	1.597	1.526	1.500	1.472	1.555	1.532	1.641	1.587	6.92
11)	T	1,4-Dichlorobenzene	1.579	1.873	1.614	1.563	1.500	1.477	1.582	1.559	1.648	1.599	7.19
12)	T	1,2-Dichlorobenzene	1.492	1.802	1.637	1.481	1.437	1.427	1.553	1.593	1.633	1.562	7.67
13)	t	Benzyl alcohol		1.029	0.984	0.896	0.916	0.918	1.069	1.114	1.151	1.010	9.59
14)	T	bis(2-chloroisopropyl)ether	1.584	1.788	1.653	1.540	1.515	1.455	1.649	1.664	1.708	1.617	6.39
15)	T	2-Methylphenol	1.065	1.097	1.101	1.073	1.068	1.000	1.180	1.237	1.316	1.126	8.82
16)	T	Hexachloroethane	0.435	0.657	0.567	0.540	0.552	0.543	0.572	0.585	0.614	0.563	10.79
17)	T	n-Nitrosodi-n-propylamine		0.866	0.827	0.804	0.812	0.775	0.906	0.938	0.969	0.862	8.07
18)	T	3-Methylphenol/4-Methylphenol		1.280	1.234	1.157	1.179	1.090	1.278	1.325	1.386	1.241	7.76
19)	S	Nitrobenzene-d5	1.421	1.399	1.344	1.288	1.277	1.240	1.407	1.446	1.486	1.368	6.17
20)	T	Nitrobenzene	1.242	1.327	1.317	1.249	1.250	1.204	1.386	1.403	1.431	1.312	6.17
21)	T	Isophorone	2.288	2.249	2.253	2.150	2.273	2.121	2.526	2.581	2.652	2.344	8.22
22)	T	2-Nitrophenol				0.529	0.596	0.594	0.725	0.760	0.795	0.667	16.11
23)	T	2,4-Dimethylphenol		1.085	1.078	1.118	1.086	0.664	1.133	1.188	1.298	1.081	17.00
24)	T	bis(2-Chloroethoxy)methane	1.772	1.688	1.538	1.503	1.513	1.374	1.577	1.611	1.690	1.585	7.60
25)	T	2,4-Dichlorophenol		1.109	1.081	1.090	1.120	1.073	1.266	1.323	1.383	1.180	10.47
26)	T	1,2,4-Trichlorobenzene	1.386	1.596	1.469	1.329	1.303	1.245	1.387	1.425	1.504	1.405	7.69
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde		1.113	1.135	1.132	1.078	1.101	1.175	1.198	1.223	1.145	4.37
29)	T	Acetophenone		1.955	1.982	2.026	1.901	1.937	2.098	2.153	2.202	2.032	5.35
30)	T	m-Toluidine	1.270	1.621	1.725	1.791	1.838	1.902	2.105	2.210	2.276	1.860	16.85
31)	T	2-Chloroaniline	1.465	1.578	1.717	1.763	1.706	1.767	1.913	1.985	2.060	1.773	10.69
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)		1,4-Dioxane		0.485	0.487	0.521	0.437	0.401	0.468	0.430	0.446	0.459	8.33
34)	T	n-Decane	1.305	1.364	1.381	1.475	1.372	1.263	1.425	1.402	1.509	1.388	5.54
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.325	1.285	1.153	1.086	1.018	0.995	1.087	1.085	1.154	1.132	9.86

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

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

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) T	Benzoic Acid					0.141	0.169	0.227	0.248	0.272	*L	0.9979
38) T	4-Chloroaniline	0.106	0.129	0.120	0.127	0.121	0.121	0.134	0.135	0.144	0.126	8.66
39) T	Hexachlorobutadiene	0.207	0.271	0.226	0.212	0.213	0.205	0.221	0.224	0.235	0.224	8.96
40) T	p-Chloro-m-cresol	0.217	0.276	0.271	0.272	0.274	0.258	0.315	0.319	0.345	0.283	13.43
41) T	2-Methylnaphthalene	0.825	0.784	0.716	0.702	0.687	0.656	0.736	0.735	0.793	0.737	7.41
42) T	1-Methylnaphthalene	0.212	0.276	0.236	0.226	0.224	0.218	0.244	0.245	0.263	0.238	8.97
43) T	Hexachlorocyclopentadiene	0.164	0.216	0.205	0.204	0.199	0.198	0.231	0.234	0.255	0.212	12.42
44) T	2,4,6-Trichlorophenol	0.167	0.222	0.209	0.227	0.233	0.219	0.264	0.272	0.294	0.234	16.11
45) T	2,4,5-Trichlorophenol	0.170	0.235	0.231	0.239	0.244	0.237	0.283	0.291	0.307	0.249	16.38
46) S	2-Fluorobiphenyl	0.972	1.060	0.884	0.851	0.817	0.767	0.890	0.897	0.961	0.900	9.79
47) T	2-Chloronaphthalene	0.858	0.850	0.745	0.729	0.711	0.650	0.756	0.760	0.808	0.763	8.75
48) T	2-Nitroaniline			0.155	0.170	0.193	0.181	0.236	0.238	0.255	0.204	18.91
49) T	1,4-Dinitrobenzene					0.097	0.089	0.118	0.120	0.125	0.110	14.44
50) T	1,3-Dinitrobenzene					0.111	0.105	0.137	0.141	0.151	0.129	15.31
51) T	Dimethyl phthalate		0.935	0.868	0.833	0.836	0.737	0.885	0.878	0.930	0.863	7.31
52) T	Acenaphthylene	1.141	1.182	1.070	1.063	1.061	0.984	1.192	1.209	1.291	1.132	8.41
53) T	2,6-Dinitrotoluene			0.137	0.157	0.164	0.153	0.189	0.184	0.198	0.169	12.99
54) T	1,2-Dinitrobenzene			0.060	0.068	0.075	0.068	0.087	0.087	0.093	0.077	16.17
55) I	IS2_Naphthalene-d8	----------ISTD----------										
56) T	a-Terpineol	0.187	0.279	0.269	0.280	0.281	0.305	0.337	0.359	0.373	0.297	18.90
57) T	3-Chloroaniline		0.137	0.151	0.150	0.156	0.165	0.179	0.179	0.185	0.163	10.60
58) T	2,6-Dichlorophenol	0.202	0.277	0.299	0.308	0.315	0.332	0.361	0.382	0.400	0.319	18.62
59) T	1-chloro-2-nitrobenzene		0.128	0.136	0.147	0.151	0.154	0.169	0.175	0.180	0.155	12.00
60) T	Caprolactam				0.105	0.134	0.151	0.183	0.191	0.191	*L	0.9988
61) T	1,2,4,5-Tetrachlorobenzene	0.443	0.435	0.442	0.429	0.427	0.425	0.455	0.457	0.484	0.444	4.24
62) T	Biphenyl	0.952	1.044	1.044	0.993	0.991	0.977	1.060	1.113	1.147	1.036	6.22
63) I	IS1_Acenaphthene-d10	----------ISTD----------										
64) T	3-Nitroaniline			0.278	0.303	0.313	0.311	0.336	0.339	0.360	0.320	8.44
65) T	Acenaphthene	1.218	1.273	1.188	1.104	1.021	1.022	1.083	1.136	1.198	1.138	7.76
66) T	2,4-Dinitrophenol				0.084	0.124	0.134	0.193	0.218	0.230	*L	0.9940
67) T	Dibenzofuran	2.280	2.138	1.895	1.802	1.687	1.641	1.747	1.808	1.913	1.879	11.15
68) T	2,4-Dinitrotoluene			0.337	0.351	0.395	0.373	0.438	0.470	0.495	0.408	14.87
69) T	4-Nitrophenol				0.222	0.245	0.239	0.261	0.271	0.281	0.253	8.58
70) T	2,3,5,6-Tetrachlorophenol	0.197	0.299	0.336	0.333	0.348	0.338	0.389	0.402	0.427	0.341	19.68
71) T	2,3,4,6-Tetrachlorophenol	0.201	0.266	0.308	0.324	0.340	0.333	0.371	0.378	0.408	0.325	19.20
72) T	Diethyl phthalate	1.375	1.432	1.374	1.252	1.250	1.154	1.322	1.361	1.423	1.327	6.91

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
73)	T	Fluorene	1.456	1.525	1.451	1.329	1.295	1.256	1.361	1.426	1.539	1.404	7.11	
74)	T	4-Chlorophenyl-phenylether	0.799	0.814	0.735	0.664	0.651	0.629	0.678	0.702	0.744	0.713	9.10	
75)	T	4-Nitroaniline			0.278	0.300	0.318	0.301	0.355	0.340	0.350	0.320	8.98	
76)	T	4,6-Dinitro-o-cresol			0.109	0.136	0.186	0.185	0.252	0.271	0.287			*L 0.9939
77)	T	NDPA/DPA	1.043	1.225	1.234	1.127	1.112	1.057	1.178	1.219	1.297	1.166	7.40	
78)	T	Azobenzene	1.162	1.290	1.300	1.178	1.204	1.129	1.249	1.232	1.294	1.226	5.08	
79)	S	2,4,6-Tribromophenol			0.171	0.159	0.175	0.170	0.190	0.214	0.232	0.187	14.31	
80)	T	4-Bromophenyl-phenylether	0.405	0.392	0.386	0.370	0.371	0.341	0.385	0.390	0.423	0.385	6.04	
81)	T	Hexachlorobenzene		0.437	0.445	0.420	0.394	0.381	0.415	0.437	0.469	0.425	6.62	
82)	T	Pentachlorophenol				0.192	0.240	0.234	0.298	0.327	0.345			*L 0.9960
83)	I	IS2_Acenaphthene-d10	----------ISTD----------											
84)	T	Dichloran				0.122	0.142	0.164	0.212	0.248	0.253			*L 0.9948
85)	T	Pentachloronitrobenzene				0.133	0.159	0.166	0.199	0.221	0.225			*L 0.9975
86)	I	IS3_Acenaphthene-d10	----------ISTD----------											
87)	T	Atrazine		0.249	0.284	0.293	0.307	0.315	0.369	0.386		0.315	15.27	
88)	I	IS1_Phenanthrene-d10	----------ISTD----------											
89)	T	Phenanthrene	1.312	1.332	1.162	1.089	1.016	1.017	1.107	1.132	1.194	1.151	9.86	
90)	T	Anthracene	1.105	1.151	1.050	1.039	0.991	0.991	1.111	1.140	1.222	1.089	7.11	
91)	T	Carbazole	0.904	0.969	0.974	0.960	0.930	0.920	1.062	1.071	1.153	0.994	8.41	
92)	T	Di-n-butylphthalate			0.916	0.932	0.979	0.945	1.199	1.313	1.375	1.094	17.94	
93)	T	Fluoranthene	1.268	1.306	1.223	1.157	1.181	1.138	1.279	1.384	1.415	1.261	7.68	
94)	T	Benzidine				0.535	0.618	0.533	0.763	0.778	0.895			*L 0.9908
95)	T	Pyrene	1.429	1.455	1.354	1.285	1.270	1.229	1.363	1.456	1.505	1.372	6.99	
96)	S	4-Terphenyl-d14	0.939	0.964	0.947	0.910	0.888	0.825	0.923	1.043	1.074	0.946	8.01	
97)	T	Butyl benzyl phthalate			0.318	0.342	0.401	0.384	0.557	0.620	0.652			*L 0.9907
98)	I	IS2_Phenanthrene-d10	----------ISTD----------											
99)	T	Diphenamid			0.398	0.403	0.444	0.484	0.554	0.623	0.639	0.507	19.79	
100)	I	IS3_Phenanthrene-d10	----------ISTD----------											
101)	T	n-Octadecane	0.286	0.314	0.366	0.378	0.385	0.375	0.422	0.435	0.471	0.381	15.10	
102)	T	Parathion			0.053	0.053	0.056	0.066	0.091	0.109	0.134			*Q 0.9983
103)	T	3,3'-Dimethylbenzidine				0.377	0.480	0.541	0.757	0.800	0.926			*L 0.9909
104)	I	IS1_Chrysene-d12	----------ISTD----------											
105)	T	Benzo[a]anthracene	1.617	1.570	1.439	1.357	1.331	1.335	1.472	1.474	1.485	1.453	6.91	
106)	T	3,3'-Dichlorobenzidine		0.323	0.338	0.374	0.418	0.422	0.521	0.547	0.554			*L 0.9961
107)	T	Chrysene		1.739	1.499	1.395	1.295	1.286	1.337	1.326	1.350	1.403	10.81	
108)	T	bis(2-Ethylhexyl)phthalate		0.527	0.534	0.564	0.662	0.667	0.862	0.884	0.905			*Q 0.9973

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL21360**
Calibration dates	**: 07/30/24 19:25 07/31/24 07:43**		

Calibration Files

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD	
109)	T	Di-n-octylphthalate				0.742	0.786	0.999	1.008	1.405	1.499	1.568	*L	0.9935
110)	T	Benzo(b)fluoranthene	1.184	1.338	1.252	1.212	1.197	1.198	1.244	1.304	1.334	1.251	4.80	
111)	T	Benzo(k)fluoranthene	1.077	1.225	1.303	1.168	1.262	1.274	1.320	1.352	1.281	1.251	6.75	
112)	T	Benzo(a)pyrene	0.929	1.038	1.086	1.053	1.096	1.109	1.188	1.196	1.211	1.101	8.19	
113)	I	IS1_Perylene-d12	----------ISTD----------											
114)	T	Indeno(1,2,3-cd)pyrene		1.038	1.025	0.971	1.020	1.069	1.195	1.207	1.259	1.098	9.69	
115)	T	Dibenzo[a,h]anthracene	0.861	1.013	1.025	1.013	1.012	1.043	1.125	1.166	1.242	1.056	10.39	
116)	T	Benzo(g,h,i)perylene	0.957	1.101	0.996	0.983	0.996	1.024	1.039	0.894	0.806	0.977	8.78	

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD										
2)	t	N-Nitrosodimethylamine	0.659	0.739	0.752	0.641	0.668	0.690	0.727	0.727	0.732	0.704	5.69
3)	t	Pyridine		1.316	1.325	1.070	1.126	1.152	1.185	1.208	1.213	1.199	7.32
4)	S	2-Fluorophenol	1.034	1.081	1.155	0.964	1.016	1.037	1.109	1.105	1.120	1.069	5.64
5)	T	Aniline	1.687	1.734	1.822	1.574	1.612	1.631	1.778	1.767	1.812	1.713	5.30
6)	t	2-Chlorophenol	1.179	1.224	1.263	1.020	1.098	1.126	1.218	1.225	1.253	1.178	6.89
7)	S	Phenol-d6	1.278	1.335	1.459	1.201	1.240	1.264	1.354	1.363	1.402	1.322	6.26
8)	T	Phenol	1.406	1.526	1.559	1.291	1.349	1.358	1.464	1.467	1.523	1.438	6.41
9)	T	bis(2-Chloroethyl)ether	1.250	1.343	1.302	1.036	1.078	1.092	1.189	1.171	1.206	1.185	8.74
10)	T	1,3-Dichlorobenzene	1.520	1.599	1.506	1.281	1.350	1.362	1.480	1.467	1.500	1.452	6.91
11)	T	1,4-Dichlorobenzene	1.519	1.712	1.553	1.305	1.361	1.387	1.479	1.469	1.515	1.478	8.11
12)	T	1,2-Dichlorobenzene	1.523	1.524	1.499	1.271	1.316	1.337	1.438	1.446	1.477	1.426	6.64
13)	t	Benzyl alcohol	0.983	1.013	1.035	0.892	0.918	0.948	1.041	1.068	1.105	1.000	7.08
14)	T	bis(2-chloroisopropyl)ether	1.700	1.723	1.762	1.433	1.473	1.502	1.662	1.658	1.695	1.623	7.43
15)	T	2-Methylphenol	1.015	1.022	1.072	0.906	0.949	0.992	1.080	1.097	1.145	1.031	7.32
16)	T	Hexachloroethane	0.564	0.574	0.599	0.476	0.490	0.517	0.560	0.554	0.571	0.545	7.60
17)	T	n-Nitrosodi-n-propylamine	0.915	0.891	0.880	0.787	0.817	0.835	0.919	0.922	0.948	0.879	6.20
18)	T	3-Methylphenol/4-Methylphenol	0.950	1.121	1.084	0.986	1.020	1.081	1.148	1.161	1.207	1.084	7.87
19)	S	Nitrobenzene-d5	1.086	1.168	1.154	1.010	1.068	1.154	1.252	1.286	1.303	1.165	8.65
20)	T	Nitrobenzene	1.134	1.157	1.216	1.047	1.112	1.187	1.290	1.296	1.332	1.197	7.95
21)	T	Isophorone	2.159	2.232	2.371	2.159	2.198	2.247	2.470	2.450	2.506	2.310	6.04
22)	T	2-Nitrophenol				0.395	0.468	0.498	0.584	0.619	0.635	0.533	17.81
23)	T	2,4-Dimethylphenol	1.049	1.057	1.116	1.007	1.025	1.054	1.126	1.146	1.208	1.088	6.01
24)	T	bis(2-Chloroethoxy)methane	1.538	1.541	1.569	1.414	1.406	1.410	1.558	1.547	1.585	1.508	4.95
25)	T	2,4-Dichlorophenol	0.960	1.048	1.114	0.980	1.043	1.092	1.181	1.191	1.236	1.094	8.75
26)	T	1,2,4-Trichlorobenzene	1.385	1.429	1.413	1.145	1.228	1.221	1.336	1.343	1.367	1.318	7.42
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD										
28)	T	Benzaldehyde	1.042	1.090	1.002	1.018	0.972	0.961	1.028	1.023	1.078	1.024	4.21
29)	T	Acetophenone	1.757	1.693	1.775	1.718	1.676	1.701	1.823	1.839	1.949	1.770	4.98
30)	T	m-Toluidine	1.089	1.425	1.582	1.564	1.596	1.637	1.765	1.831	1.903	1.599	15.11
31)	T	2-Chloroaniline	1.488	1.575	1.472	1.473	1.477	1.505	1.601	1.616	1.711	1.546	5.45
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD										
33)	T	n-Decane	1.520	1.486	1.462	1.525	1.368	1.337	1.406	1.417	1.504	1.447	4.71
34)	I	IS1_Naphthalene-d8	ISTD										
35)	T	Naphthalene	1.083	1.118	1.062	0.891	0.943	0.924	0.975	0.964	1.002	0.996	7.74
36)	T	Benzoic Acid					0.124	0.165	0.205	0.229	0.243	*L	0.9992
37)	T	4-Chloroaniline	0.129	0.121	0.129	0.115	0.123	0.120	0.130	0.129	0.135	0.126	4.95
38)	T	Hexachlorobutadiene	0.214	0.247	0.227	0.181	0.194	0.196	0.215	0.207	0.214	0.211	9.32
39)	T	p-Chloro-m-cresol	0.249	0.255	0.255	0.255	0.263	0.274	0.297	0.295	0.307	0.272	8.12
40)	T	2-Methylnaphthalene	0.695	0.742	0.720	0.635	0.643	0.655	0.701	0.682	0.724	0.688	5.50
41)	T	1-Methylnaphthalene	0.242	0.253	0.245	0.217	0.222	0.220	0.239	0.232	0.243	0.235	5.40
42)	T	Hexachlorocyclopentadiene	0.181	0.215	0.200	0.169	0.191	0.196	0.225	0.231	0.239	0.205	11.50
43)	T	2,4,6-Trichlorophenol	0.188	0.227	0.228	0.215	0.230	0.242	0.264	0.257	0.279	0.237	11.57
44)	T	2,4,5-Trichlorophenol	0.220	0.240	0.243	0.225	0.245	0.256	0.273	0.278	0.279	0.251	8.74
45)	S	2-Fluorobiphenyl	0.900	0.914	0.940	0.791	0.820	0.822	0.877	0.856	0.873	0.866	5.61

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	T	2-Chloronaphthalene	0.713	0.793	0.758	0.653	0.673	0.675	0.722	0.710	0.741	0.715	6.24
47)	T	2-Nitroaniline			0.144	0.135	0.150	0.174	0.196	0.201	0.211	0.173	17.54
48)	T	1,4-Dinitrobenzene					0.066	0.076	0.092	0.097	0.104	0.087	18.10
49)	T	1,3-Dinitrobenzene					0.084	0.099	0.112	0.120	0.128	0.109	15.85
50)	T	Dimethyl phthalate	0.827	0.896	0.845	0.791	0.805	0.809	0.851	0.848	0.877	0.839	4.10
51)	T	Acenaphthylene	1.034	1.123	1.090	1.004	1.020	1.050	1.132	1.117	1.145	1.079	4.93
52)	T	2,6-Dinitrotoluene			0.116	0.124	0.145	0.159	0.171	0.174	0.178	0.153	16.32
53)	T	1,2-Dinitrobenzene			0.053	0.055	0.064	0.070	0.076	0.078	0.081	0.068	16.41
54)	I	IS2_Naphthalene-d8	ISTD										
55)	T	a-Terpineol	0.273	0.249	0.277	0.273	0.260	0.258	0.287	0.300	0.310	0.276	7.15
56)	T	3-Chloroaniline	0.129	0.147	0.149	0.148	0.147	0.140	0.151	0.156	0.159	0.147	6.14
57)	T	2,6-Dichlorophenol	0.238	0.256	0.283	0.276	0.285	0.281	0.317	0.331	0.343	0.290	11.85
58)	T	1-chloro-2-nitrobenzene	0.102	0.121	0.114	0.108	0.113	0.111	0.133	0.142	0.147	0.121	13.04
59)	T	Caprolactam				0.125	0.133	0.142	0.161	0.167	0.167	0.149	12.11
60)	T	1,2,4,5-Tetrachlorobenzene	0.422	0.408	0.419	0.393	0.382	0.368	0.397	0.410	0.419	0.402	4.58
61)	T	Biphenyl	0.924	0.964	0.962	0.896	0.893	0.854	0.918	0.969	0.982	0.929	4.65
62)	I	IS1_Acenaphthene-d10	ISTD										
63)	T	3-Nitroaniline			0.216	0.207	0.251	0.257	0.283	0.289	0.313	0.259	14.84
64)	T	Acenaphthene	1.135	1.206	1.151	1.031	0.986	0.974	1.060	1.061	1.126	1.081	7.24
65)	T	2,4-Dinitrophenol				0.061	0.096	0.113	0.138	0.155	0.179	*L	0.9922
66)	T	Dibenzofuran	1.883	1.958	1.830	1.645	1.680	1.604	1.751	1.677	1.782	1.757	6.69
67)	T	2,4-Dinitrotoluene			0.248	0.253	0.303	0.325	0.375	0.394	0.436	*L	0.9948
68)	T	4-Nitrophenol				0.179	0.210	0.207	0.238	0.236	0.259	0.221	12.91
69)	T	2,3,5,6-Tetrachlorophenol	0.221	0.289	0.313	0.285	0.326	0.322	0.366	0.353	0.384	0.318	15.48
70)	T	2,3,4,6-Tetrachlorophenol	0.253	0.289	0.296	0.291	0.322	0.322	0.350	0.337	0.363	0.314	11.01
71)	T	Diethyl phthalate	1.336	1.322	1.369	1.203	1.280	1.196	1.330	1.277	1.400	1.301	5.33
72)	T	Fluorene	1.372	1.431	1.383	1.243	1.281	1.233	1.333	1.273	1.405	1.328	5.52
73)	T	4-Chlorophenyl-phenylether	0.725	0.721	0.710	0.627	0.647	0.614	0.678	0.631	0.694	0.672	6.41
74)	T	4-Nitroaniline			0.211	0.220	0.257	0.251	0.300	0.293	0.306	0.262	14.62
75)	T	4,6-Dinitro-o-cresol			0.085	0.096	0.138	0.156	0.205	0.213	0.243	*L	0.9911
76)	T	NDPA/DPA	1.102	1.197	1.200	1.057	1.107	1.057	1.152	1.093	1.217	1.131	5.49
77)	T	Azobenzene	1.261	1.308	1.303	1.184	1.229	1.197	1.301	1.229	1.321	1.259	4.08
78)	S	2,4,6-Tribromophenol	0.102	0.159	0.167	0.168	0.173	0.176	0.199	0.185	0.205	0.171	17.42
79)	T	4-Bromophenyl-phenylether	0.407	0.423	0.403	0.335	0.357	0.346	0.376	0.354	0.386	0.376	8.09
80)	T	Hexachlorobenzene	0.490	0.487	0.452	0.412	0.407	0.390	0.420	0.395	0.424	0.431	8.66
81)	T	Pentachlorophenol				0.183	0.237	0.237	0.276	0.271	0.307	0.252	17.04
82)	I	IS2_Acenaphthene-d10	ISTD										
83)	T	Dichloran				0.083	0.102	0.113	0.147	0.180	0.197	*Q	0.9978
84)	T	Pentachloronitrobenzene				0.105	0.122	0.133	0.161	0.181	0.194	*Q	0.9990
85)	I	IS3_Acenaphthene-d10	ISTD										
86)	T	Atrazine		0.287	0.298	0.345	0.329	0.356	0.389	0.427		0.347	14.16
87)	I	IS1_Phenanthrene-d10	ISTD										
88)	T	Phenanthrene	1.101	1.140	1.129	0.982	0.977	0.946	1.018	1.004	1.045	1.038	6.77
89)	T	Anthracene	1.033	1.102	1.077	0.952	0.981	0.943	1.057	1.033	1.089	1.030	5.70
90)	T	Carbazole	0.855	0.947	0.955	0.888	0.900	0.879	0.967	0.963	1.000	0.928	5.26

Response Factor Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D

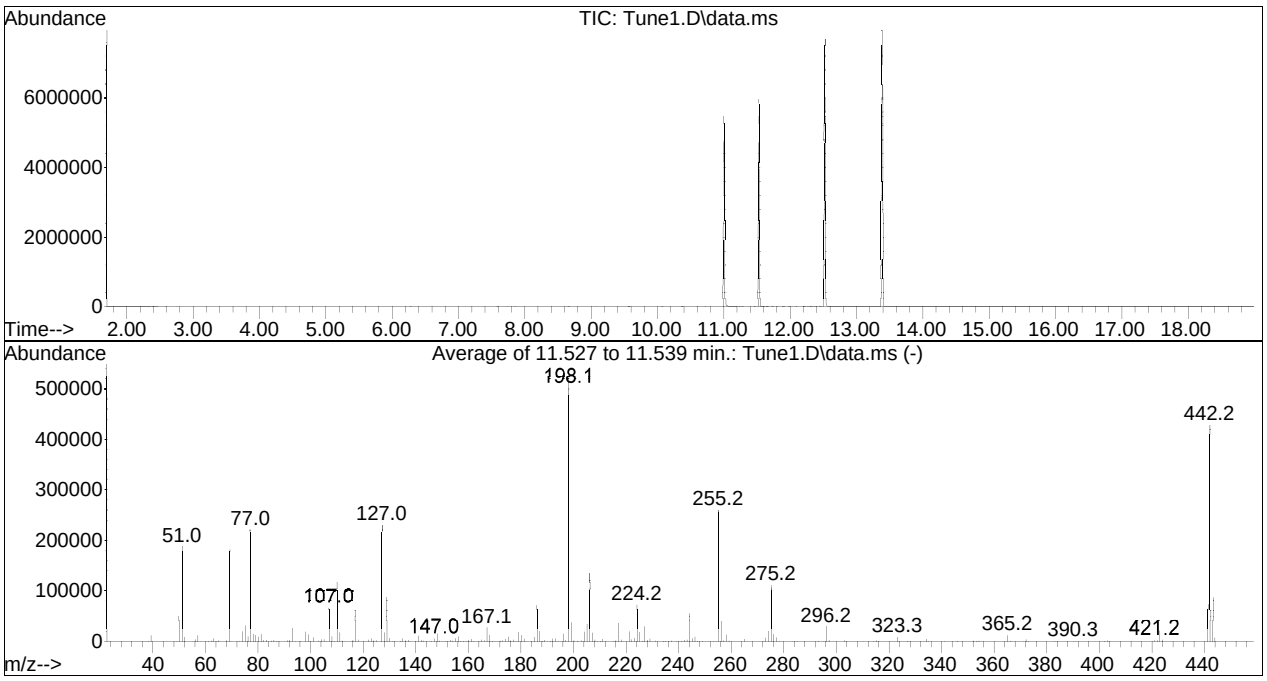
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Di-n-butylphthalate			0.950	0.935	0.993	1.044	1.218	1.222	1.256	1.088	12.82
92)	T	Fluoranthene	1.196	1.296	1.206	1.100	1.126	1.093	1.216	1.205	1.236	1.186	5.65
93)	T	Benzidine				0.568	0.649	0.674	0.798	0.798	0.837	0.721	14.68
94)	T	Pyrene	1.312	1.364	1.309	1.203	1.204	1.162	1.287	1.281	1.297	1.269	5.13
95)	S	4-Terphenyl-d14	0.913	0.909	0.915	0.815	0.832	0.800	0.885	0.895	0.912	0.875	5.29
96)	T	Butyl benzyl phthalate			0.306	0.326	0.392	0.422	0.520	0.549	0.573	*L	0.9962
97)	I	IS2_Phenanthrene-d10	----------ISTD----------										
98)	T	Diphenamid	0.370	0.378	0.415	0.410	0.431	0.433	0.500	0.517	0.551	0.445	14.19
99)	I	IS3_Phenanthrene-d10	----------ISTD----------										
100)	T	n-Octadecane	0.328	0.329	0.355	0.411	0.374	0.398	0.427	0.435	0.479	0.393	13.02
101)	T	Parathion			0.040	0.052	0.050	0.062	0.077	0.100	0.124	*Q	0.9987
102)	T	3,3'-Dimethylbenzidine				0.533	0.547	0.670	0.731	0.800	0.895	0.696	20.41#
103)	I	IS1_Chrysene-d12	----------ISTD----------										
104)	T	Benzo[a]anthracene	1.458	1.452	1.367	1.229	1.266	1.218	1.386	1.341	1.297	1.335	6.68
105)	T	3,3'-Dichlorobenzidine		0.337	0.377	0.378	0.421	0.432	0.498	0.508	0.487	0.430	14.76
106)	T	Chrysene		1.479	1.397	1.260	1.243	1.163	1.254	1.214	1.194	1.276	8.42
107)	T	bis(2-Ethylhexyl)phthalate		0.468	0.557	0.555	0.705	0.741	0.902	0.918		*L	0.9935
108)	T	Di-n-octylphthalate			0.724	0.790	1.067	1.147	1.474	1.571		*L	0.9918
109)	T	Benzo(b)fluoranthene	1.097	1.221	1.184	1.033	1.167	1.107	1.257	1.261	1.275	1.178	7.17
110)	T	Benzo(k)fluoranthene	1.076	1.221	1.229	1.120	1.125	1.102	1.222	1.158	1.131	1.154	4.94
111)	T	Benzo(a)pyrene	0.882	1.013	1.054	0.933	1.014	0.981	1.121	1.115	1.114	1.025	8.26
112)	I	IS1_Perylene-d12	----------ISTD----------										
113)	T	Indeno(1,2,3-cd)pyrene		0.780	0.794	0.802	0.959	0.887	1.113	1.110	1.169	0.952	16.81
114)	T	Dibenzo[a,h]anthracene	0.705	0.838	0.942	0.917	0.952	0.961	1.104	1.069	1.089	0.953	13.41
115)	T	Benzo(g,h,i)perylene	0.801	0.925	0.997	0.913	0.930	0.878	1.020	0.950	0.935	0.928	6.89

(#) = Out of Range

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024



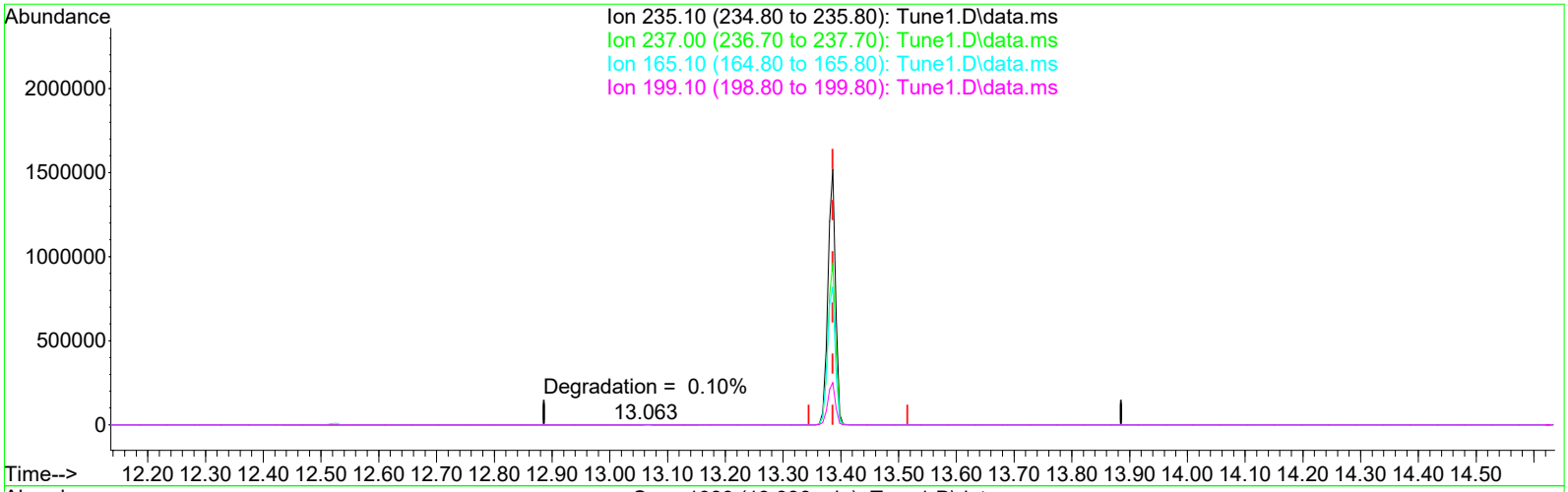
Spectrum Information: Average of 11.527 to 11.539 min.

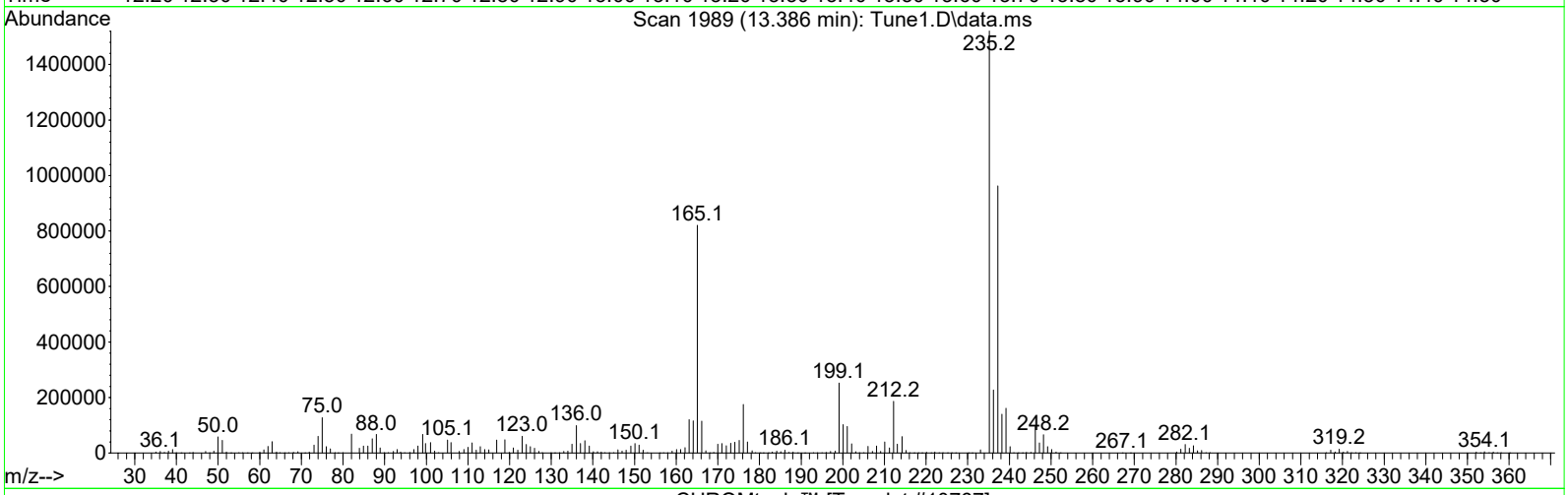
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.9	187531	PASS
68	69	0.00	2	1.7	3108	PASS
69	69	100	100	100.0	182483	PASS
70	69	0.00	2	0.6	1027	PASS
127	198	10	80	44.0	229973	PASS
197	198	0.00	2	0.8	4040	PASS
198	198	100	100	100.0	522133	PASS
199	198	5	9	6.8	35451	PASS
275	198	10	60	21.3	111272	PASS
365	198	1	100	2.3	12158	PASS
441	442	0.01	24	16.8	72077	PASS
442	198	50	100	82.0	427989	PASS
443	442	15	24	20.2	86597	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.386min (+ 0.000) 228.98

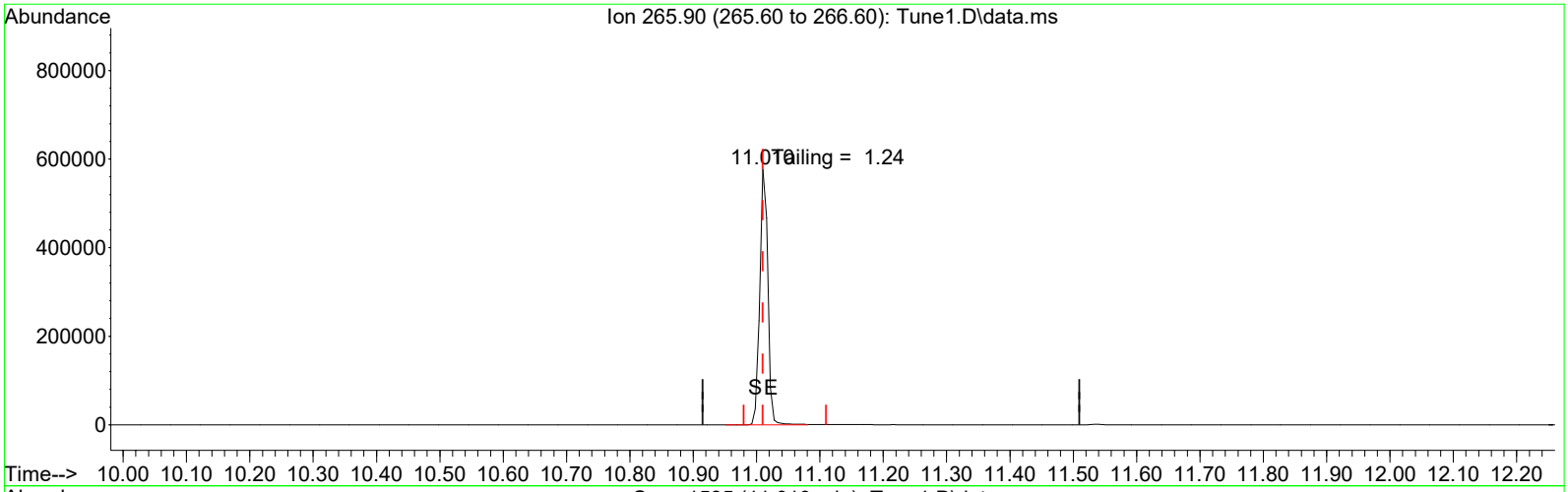
response 1395788

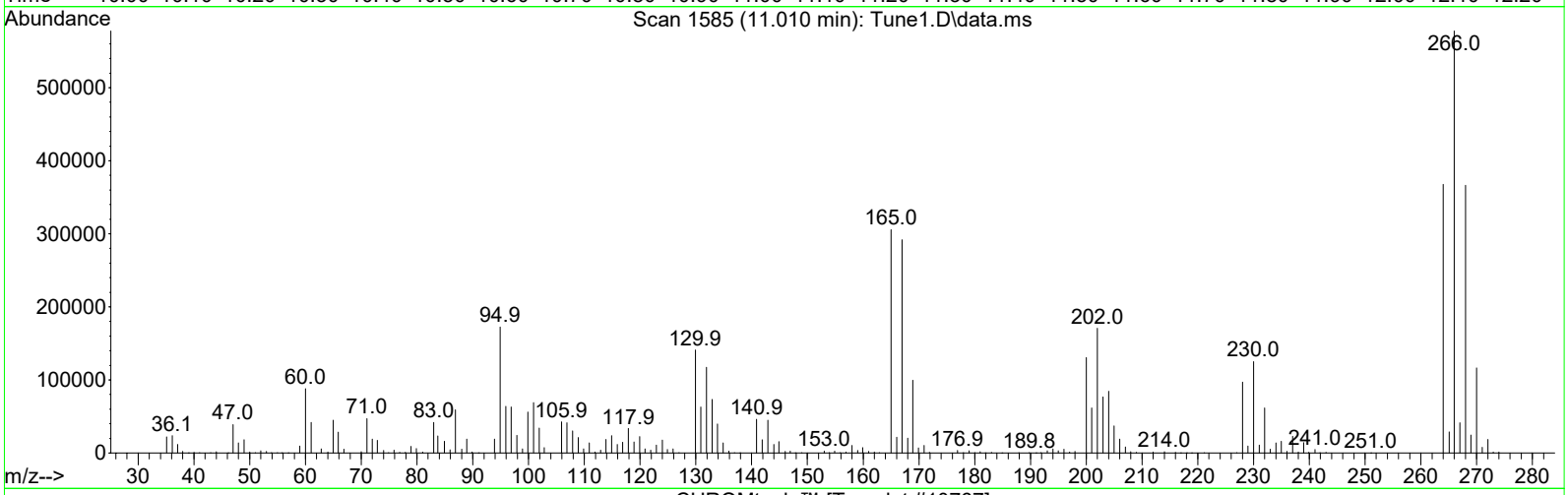
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	63.53
165.10	55.40	55.28
199.10	16.20	16.69

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.010min (-0.000) 240.75

response 505661

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

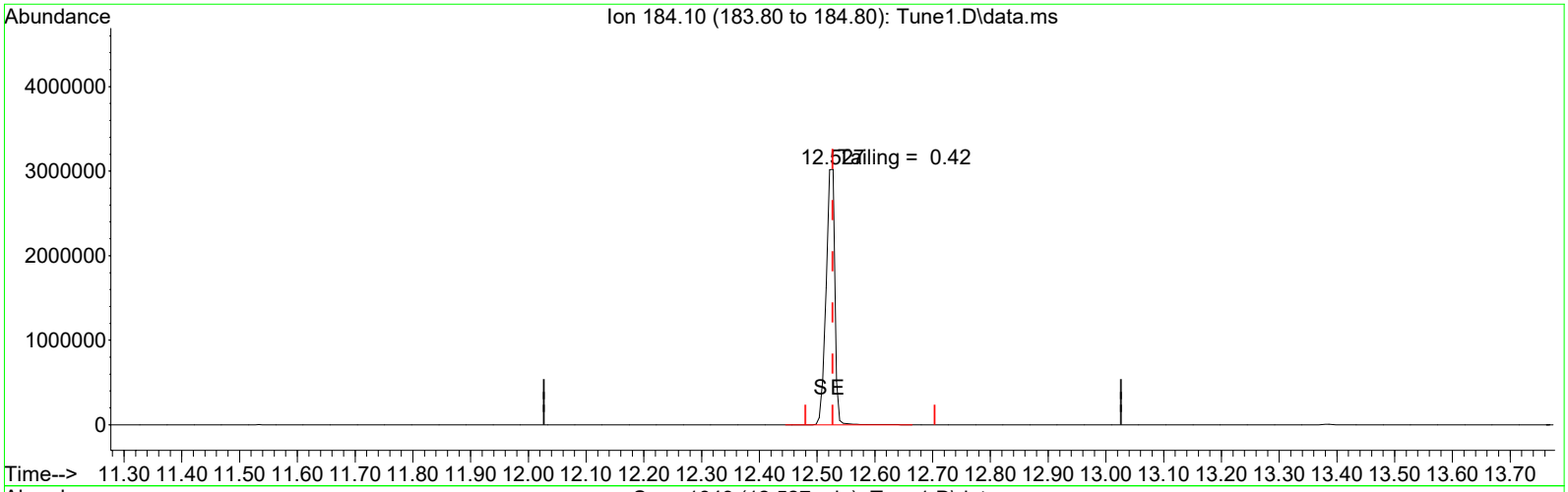
Duplicate Retention Times

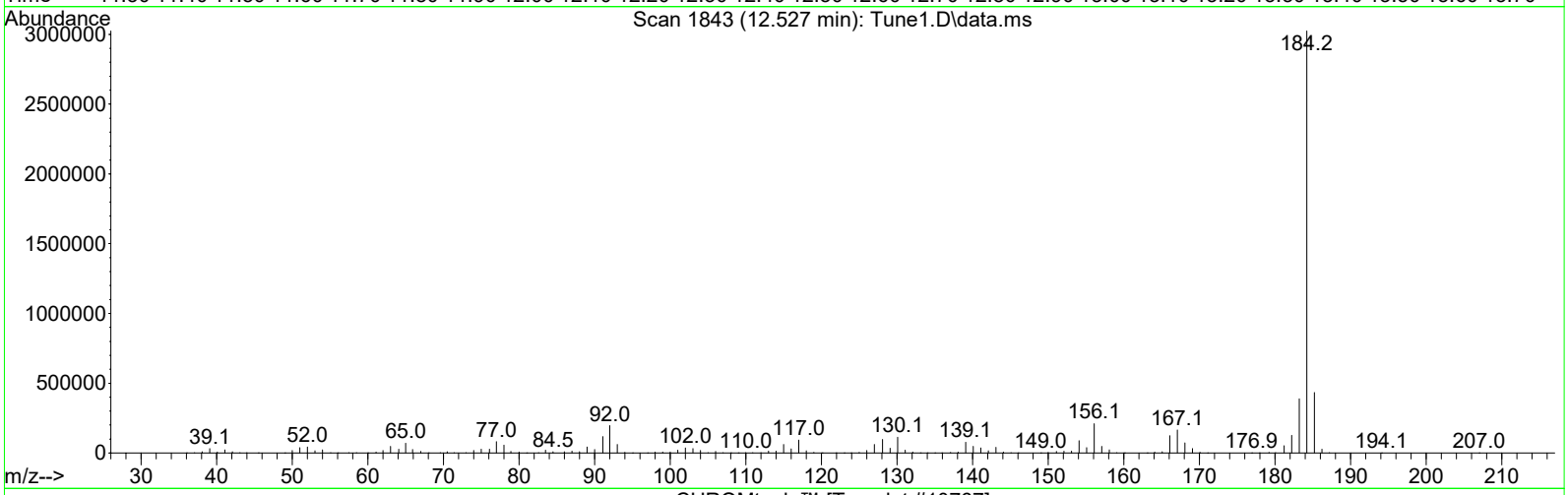
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune1.D
Acq On : 2 Jun 2024 7:09 pm
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:04:42 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.527min (+ 0.000) 310.23

response 3158173

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52092	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 100.08%			
34) IS1_Naphthalene-d8	7.963	136	196006	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.97%			
62) IS1_Acenaphthene-d10	9.733	164	120488	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.19%			
87) IS1_Phenanthrene-d10	11.174	188	241169	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.61%			
103) IS1_Chrysene-d12	13.845	240	226976	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 97.03%			
112) IS1_Perylene-d12	15.321	264	215373	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 89.34%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	729562	47.770	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 2388.50%#			
7) Phenol-d6	6.169	99	913206	47.155	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2357.75%#			
19) Nitrobenzene-d5	7.192	82	848672	47.774	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4777.40%#			
45) 2-Fluorobiphenyl	9.086	172	2139322	47.429	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 4742.90%#			
78) 2,4,6-Tribromophenol	10.510	330	308756	68.577	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 3428.85%#			
95) 4-Terphenyl-d14	12.768	244	2749792	51.791	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5179.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	476466	44.380	ug/ml#	67
3) Pyridine	2.310	79	789847M3	50.615	ug/ml	
5) Aniline	6.134	93	1179796	51.274	ug/ml	98
6) 2-Chlorophenol	6.281	128	815776	48.639	ug/ml	94
8) Phenol	6.186	94	991965	46.986	ug/ml	97
9) Bis(2-chloroethyl)ether	6.257	93	785125	44.809	ug/ml#	85
10) 1,3-Dichlorobenzene	6.463	146	976808	46.986	ug/ml	98
11) 1,4-Dichlorobenzene	6.557	146	986681	46.274	ug/ml	98
12) 1,2-Dichlorobenzene	6.734	146	961491	47.316	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.745	79	719447	51.831	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	1103416	46.642	ug/ml#	45
15) 2-Methylphenol	6.910	108	745396	50.435	ug/ml	98
16) Hexachloroethane	7.122	117	371487	48.927	ug/ml#	63
17) n-Nitrosodi-n-propylamine	7.069	70	617228	51.768	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.098	108	786206	49.161	ug/ml	98
20) Nitrobenzene	7.210	77	867466	47.687	ug/ml	99
21) Isophorone	7.492	82	1631961	52.056	ug/ml	97
22) 2-Nitrophenol	7.569	139	413598	55.352	ug/ml	91
23) 2,4-Dimethylphenol	7.669	107	786698	63.139	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.763	93	1032309	48.807	ug/ml	98
25) 2,4-Dichlorophenol	7.833	162	804676	55.165	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.916	180	890261	46.778	ug/ml	97
35) Naphthalene	7.981	128	2455182	44.647	ug/ml	98
36) Benzoic Acid	7.857	105	594990M3	46.450	ug/ml	
37) 4-Chloroaniline	8.063	65	329663	48.950	ug/ml	90
38) Hexachlorobutadiene	8.145	225	524479	47.024	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	752356	53.913	ug/ml	98
40) 2-Methylnaphthalene	8.704	142	1773515	48.547	ug/ml	96
41) 1-Methylnaphthalene	8.798	115	595801	47.696	ug/ml	97
42) Hexachlorocyclopentadiene	8.880	237	585777	72.368	ug/ml	98
43) 2,4,6-Trichlorophenol	8.998	196	683883	61.941	ug/ml	98
44) 2,4,5-Trichlorophenol	9.027	196	684500	57.154	ug/ml	99
46) 2-Chloronaphthalene	9.186	162	1814998	49.433	ug/ml	96
47) 2-Nitroaniline	9.298	138	516831	46.219	ug/ml	89
48) 1,4-Dinitrobenzene	9.433	168	255453	47.634	ug/ml	77
49) 1,3-Dinitrobenzene	9.510	168	312993	59.575	ug/ml#	1
50) Dimethyl phthalate	9.510	163	2147747	52.966	ug/ml#	98
51) Acenaphthylene	9.592	152	2805280	50.791	ug/ml	97
52) 2,6-Dinitrotoluene	9.551	165	436608	49.584	ug/ml#	81
53) 1,2-Dinitrobenzene	9.598	168	197825	52.511	ug/ml#	1
63) 3-Nitroaniline	9.710	138	471068	51.669	ug/ml	97
64) Acenaphthene	9.769	154	1695793	49.930	ug/ml	92
65) 2,4-Dinitrophenol	9.810	184	269058	55.401	ug/ml#	87
66) Dibenzofuran	9.939	168	2683577	48.125	ug/ml	95
67) 2,4-Dinitrotoluene	9.945	165	656313	53.666	ug/ml	92
68) 4-Nitrophenol	9.898	65	390800	50.844	ug/ml#	88
69) 2,3,5,6-Tetrachlorophenol	10.027	232	577911	60.589	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.069	232	546634	56.529	ug/ml	97
71) Diethyl phthalate	10.204	149	2108194	53.768	ug/ml	96
72) Fluorene	10.269	166	2115991	50.482	ug/ml	94
73) 4-Chlorophenyl phenyl ...	10.286	204	1044988	48.404	ug/ml	90
74) 4-Nitroaniline	10.316	138	461065	50.193	ug/ml#	88
75) 4,6-Dinitro-o-cresol	10.339	198	365550	56.724	ug/ml#	63
76) NDPA/DPA	10.410	169	1833086	54.507	ug/ml	94
77) Azobenzene	10.439	77	1989446	50.335	ug/ml	95
79) 4-Bromophenyl phenyl e...	10.763	248	581049	51.273	ug/ml	90
80) Hexachlorobenzene	10.816	284	638949	51.087	ug/ml#	87
81) Pentachlorophenol	11.010	266	461808	58.459	ug/ml	98
88) Phenanthrene	11.204	178	3149864	46.986	ug/ml	97
89) Anthracene	11.251	178	3281818	51.815	ug/ml	97
90) Carbazole	11.421	167	3013630	52.456	ug/ml	96
91) Di-n-butylphthalate	11.804	149	3786524	61.939	ug/ml	98
92) Fluoranthene	12.363	202	3725734	51.666	ug/ml#	92
93) Benzidine	12.515	184	2523163	64.802	ug/ml#	95
94) Pyrene	12.586	202	3910527	50.113	ug/ml	97
96) Butyl benzyl phthalate	13.304	149	1728011	50.798	ug/ml	92
104) Benzo(a)anthracene	13.839	228	3679599	48.093	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.833	252	1382777	59.932	ug/ml#	97
106) Chrysene	13.880	228	3388097	43.998	ug/ml	96
107) Bis(2-ethylhexyl)phtha...	13.945	149	2632420	48.002	ug/ml#	98
108) Di-n-octylphthalate	14.633	149	4417645	45.595	ug/ml#	73
109) Benzo(b)fluoranthene	14.962	252	3618166	54.564	ug/ml#	94
110) Benzo(k)fluoranthene	14.992	252	3209700	46.807	ug/ml#	93
111) Benzo(a)pyrene	15.280	252	3161941	53.187	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	3147861M6	62.085	ug/mL	
114) Dibenzo(a,h)anthracene	16.380	278	2930895	55.128	ug/ml#	92
115) Benzo(ghi)perylene	16.627	276	2517993	47.199	ug/ml#	89

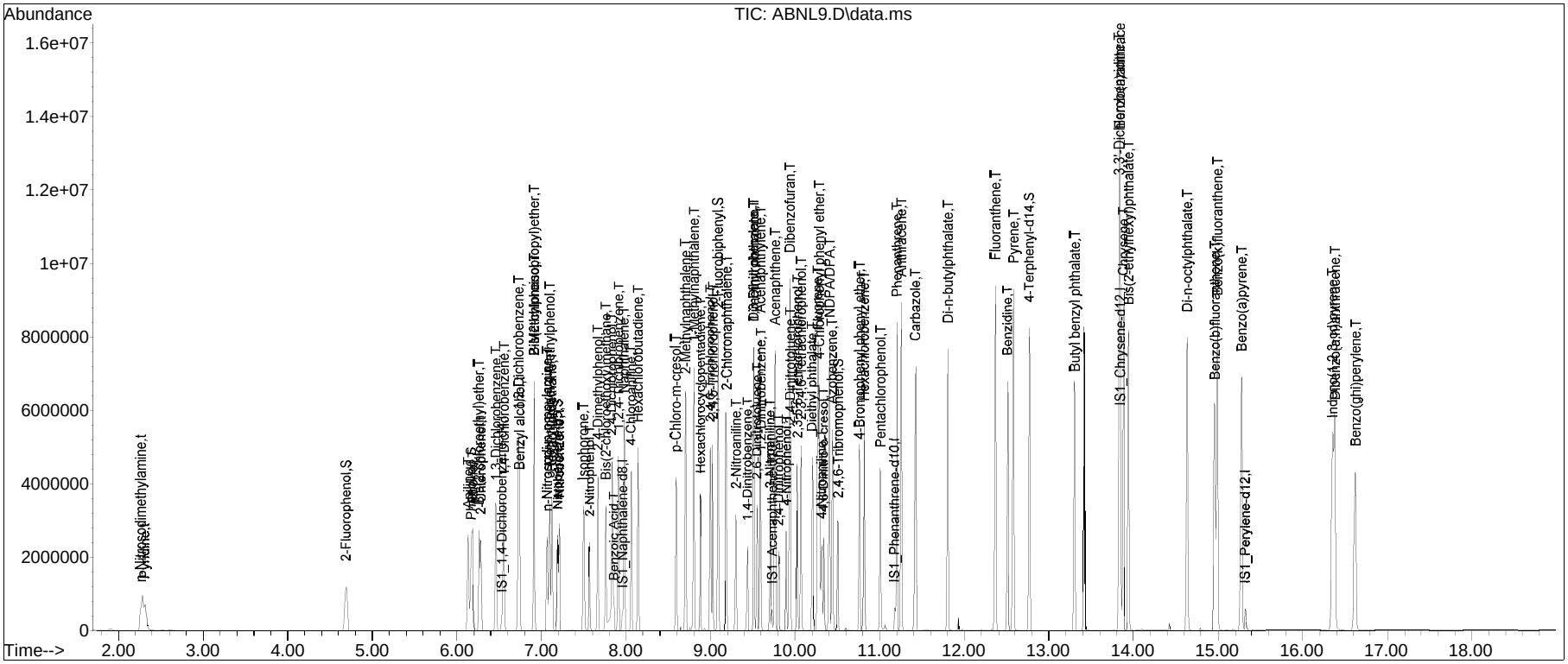
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL9.D
Acq On : 2 Jun 2024 7:34 pm
Operator : SV107:jg
Sample : IL2,32,,ABNL50 Lot# 10691
Misc : WG1929644,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 03 10:59:15 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

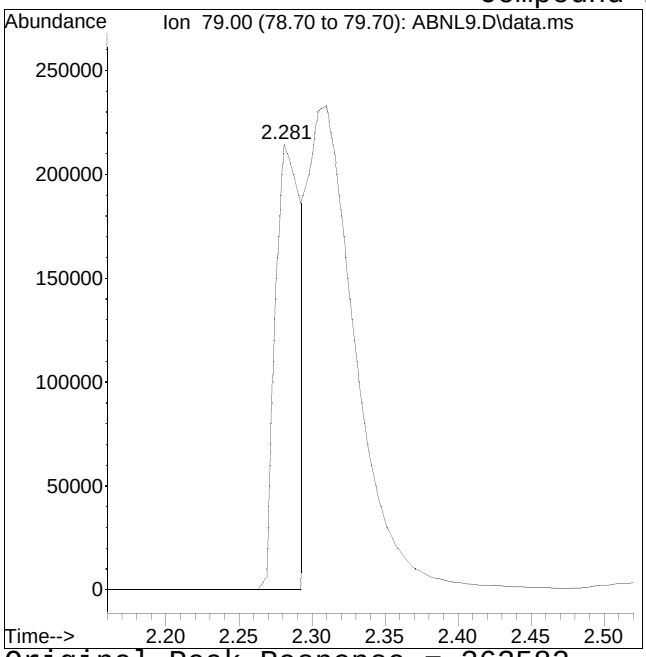
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

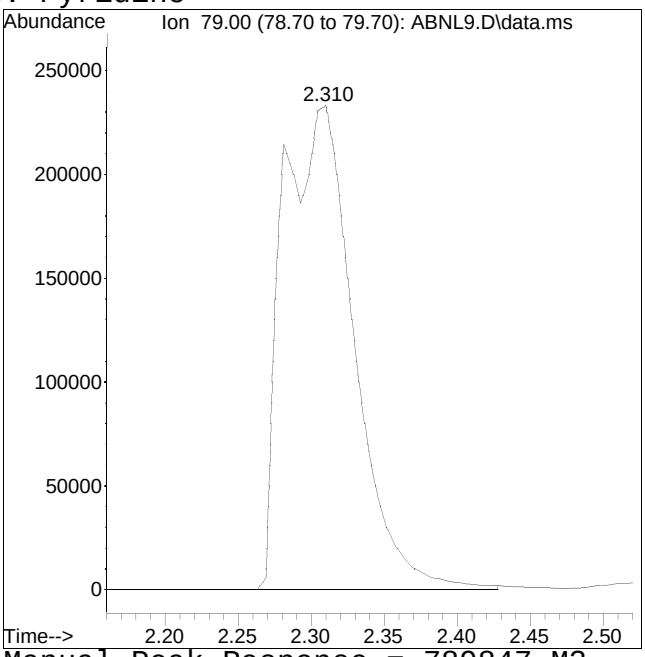


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #3: Pyridine



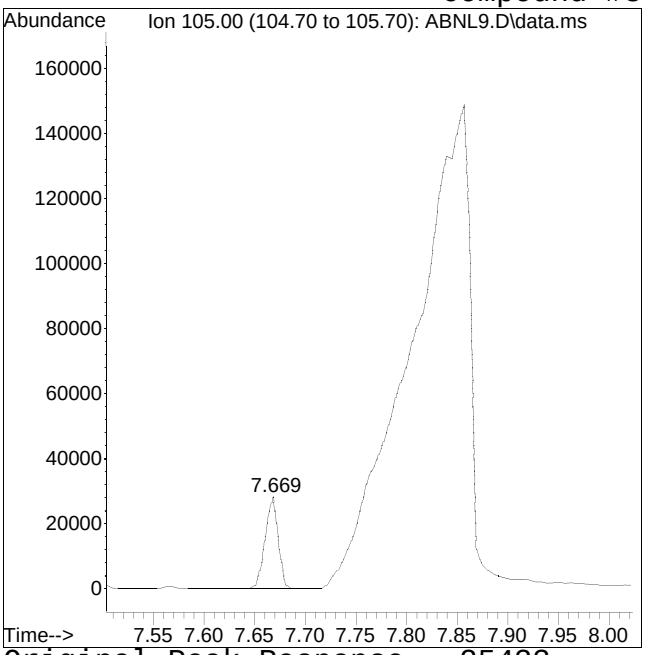


Original Peak Response = 263582 Manual Peak Response = 789847 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

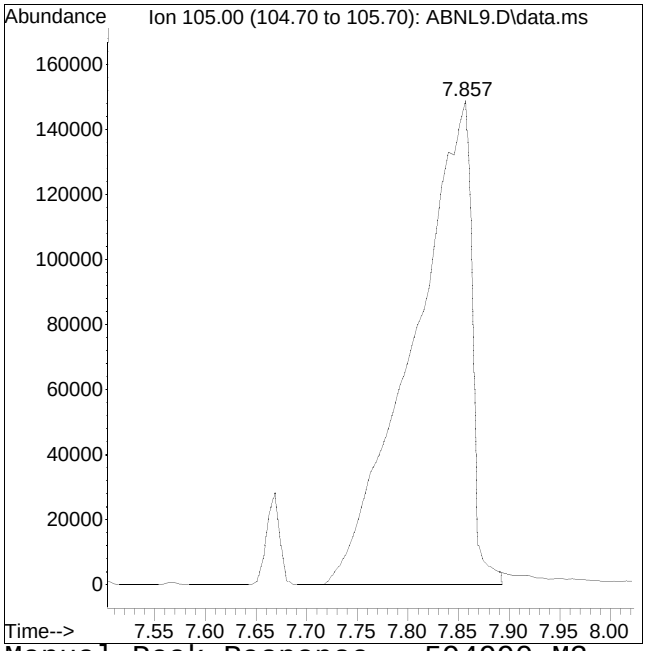
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #36: Benzoic Acid



Original Peak Response = 25433



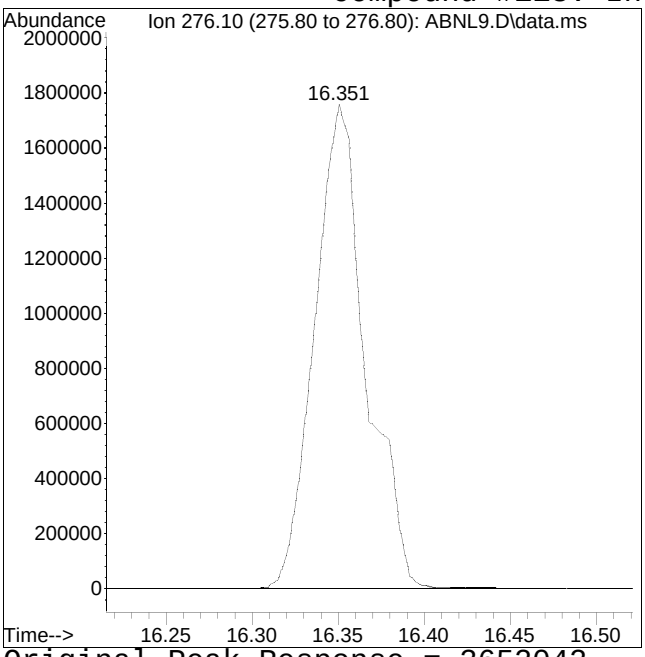
Manual Peak Response = 594990 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

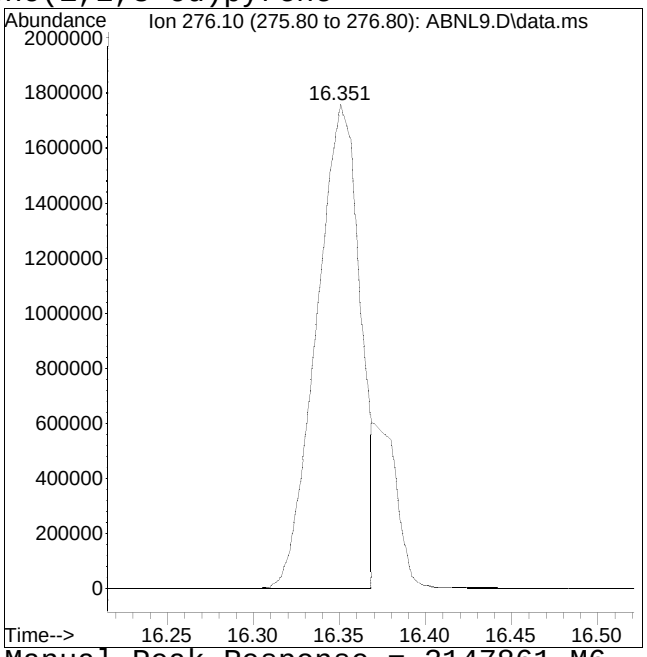
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:34 pm Instrument : SV107
Sample : IL2,32,,ABNL50 Lot# 10691 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3652042



Manual Peak Response = 3147861 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	51050	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 98.08%			
34) IS1_Naphthalene-d8	7.957	136	194324	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 102.09%			
62) IS1_Acenaphthene-d10	9.728	164	124132	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.13%			
87) IS1_Phenanthrene-d10	11.175	188	241731	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 95.83%			
103) IS1_Chrysene-d12	13.839	240	224950	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.16%			
112) IS1_Perylene-d12	15.321	264	225904	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 93.71%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	352552	23.556	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 1177.80%#			
7) Phenol-d6	6.163	99	434922	22.917	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1145.85%#			
19) Nitrobenzene-d5	7.187	82	410309	23.569	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2356.90%#			
45) 2-Fluorobiphenyl	9.081	172	1039673	23.249	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2324.90%#			
78) 2,4,6-Tribromophenol	10.504	330	143558	30.949	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1547.45%#			
95) 4-Terphenyl-d14	12.769	244	1351933	25.404	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2540.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	231824	22.034	ug/ml#	66
3) Pyridine	2.281	79	385544	25.211	ug/ml#	61
5) Aniline	6.128	93	563724	25.000	ug/ml	97
6) 2-Chlorophenol	6.275	128	390705	23.770	ug/ml	94
8) Phenol	6.175	94	468001	22.620	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	373487	21.751	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	468066	22.974	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	468617	22.426	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	461305	23.165	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	340809	25.054	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	528944	22.815	ug/ml#	46
15) 2-Methylphenol	6.904	108	349944	24.161	ug/ml	98
16) Hexachloroethane	7.122	117	176749	23.754	ug/ml#	64
17) n-Nitrosodi-n-propylamine	7.057	70	294321	25.189	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.092	108	370465	23.638	ug/ml	98
20) Nitrobenzene	7.204	77	413557	23.198	ug/ml	99
21) Isophorone	7.487	82	781835	25.448	ug/ml	98
22) 2-Nitrophenol	7.563	139	197511	26.973	ug/ml	90
23) 2,4-Dimethylphenol	7.663	107	365732	29.952	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.757	93	493552	23.811	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	380051	26.587	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	428363	22.967	ug/ml	98
35) Naphthalene	7.981	128	1170952	21.478	ug/ml	99
36) Benzoic Acid	7.816	105	277825	22.504	ug/ml	95
37) 4-Chloroaniline	8.057	65	156133	23.384	ug/ml	87
38) Hexachlorobutadiene	8.145	225	251541	22.748	ug/ml	99
39) p-Chloro-m-cresol	8.586	107	358862	25.938	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	828408	22.873	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	281712	22.747	ug/ml	98
42) Hexachlorocyclopentadiene	8.875	237	280242	34.922	ug/ml	99
43) 2,4,6-Trichlorophenol	8.998	196	312004	28.504	ug/ml	99
44) 2,4,5-Trichlorophenol	9.028	196	337250	28.403	ug/ml	97
46) 2-Chloronaphthalene	9.181	162	862228	23.687	ug/ml	95
47) 2-Nitroaniline	9.292	138	243518	22.111	ug/ml	89
48) 1,4-Dinitrobenzene	9.428	168	117852	22.344	ug/ml	79
49) 1,3-Dinitrobenzene	9.504	168	145584	27.950	ug/ml#	1
50) Dimethyl phthalate	9.504	163	1029527	25.609	ug/ml#	98
51) Acenaphthylene	9.586	152	1356661	24.776	ug/ml	98
52) 2,6-Dinitrotoluene	9.545	165	211629	24.307	ug/ml#	81
53) 1,2-Dinitrobenzene	9.586	168	95068	25.522	ug/ml#	1
63) 3-Nitroaniline	9.698	138	223955	23.843	ug/ml	96
64) Acenaphthene	9.763	154	823091	23.523	ug/ml	93
65) 2,4-Dinitrophenol	9.804	184	120610	24.509	ug/ml#	87
66) Dibenzofuran	9.933	168	1300833	22.643	ug/ml	94
67) 2,4-Dinitrotoluene	9.933	165	305368	24.314	ug/ml	94
68) 4-Nitrophenol	9.886	65	182864	23.092	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	274188	27.902	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	261810	26.280	ug/ml	97
71) Diethyl phthalate	10.198	149	990417	24.518	ug/ml	97
72) Fluorene	10.269	166	987372	22.865	ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.280	204	489879	22.025	ug/ml	90
74) 4-Nitroaniline	10.298	138	227044	23.991	ug/ml	85
75) 4,6-Dinitro-o-cresol	10.333	198	165521	25.144	ug/ml#	61
76) NDPA/DPA	10.404	169	848079	24.477	ug/ml	94
77) Azobenzene	10.433	77	953697	23.421	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	274899	23.545	ug/ml#	89
80) Hexachlorobenzene	10.810	284	306799	23.810	ug/ml#	87
81) Pentachlorophenol	11.004	266	210091	25.965	ug/ml	99
88) Phenanthrene	11.198	178	1516863	22.574	ug/ml	98
89) Anthracene	11.245	178	1559998	24.573	ug/ml	98
90) Carbazole	11.416	167	1455059	25.268	ug/ml	97
91) Di-n-butylphthalate	11.798	149	1846222	30.130	ug/ml	98
92) Fluoranthene	12.357	202	1819916	25.179	ug/ml#	92
93) Benzidine	12.510	184	1205192	30.881	ug/ml#	95
94) Pyrene	12.580	202	1934804	24.736	ug/ml	98
96) Butyl benzyl phthalate	13.298	149	829584	26.448	ug/ml	93
104) Benzo(a)anthracene	13.833	228	1884961	24.859	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.827	252	714087	31.228	ug/ml#	96
106) Chrysene	13.868	228	1707374	22.372	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	1290107	27.130	ug/ml#	97
108) Di-n-octylphthalate	14.627	149	2208702	27.076	ug/ml#	73
109) Benzo(b)fluoranthene	14.951	252	1772450	26.970	ug/ml#	93
110) Benzo(k)fluoranthene	14.980	252	1628489	23.962	ug/ml#	95
111) Benzo(a)pyrene	15.268	252	1568036	26.614	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.351	276	1567480M6	29.474	ug/mL	
114) Dibenzo(a,h)anthracene	16.368	278	1508686	27.054	ug/ml#	91
115) Benzo(ghi)perylene	16.621	276	1341500	23.974	ug/ml#	89

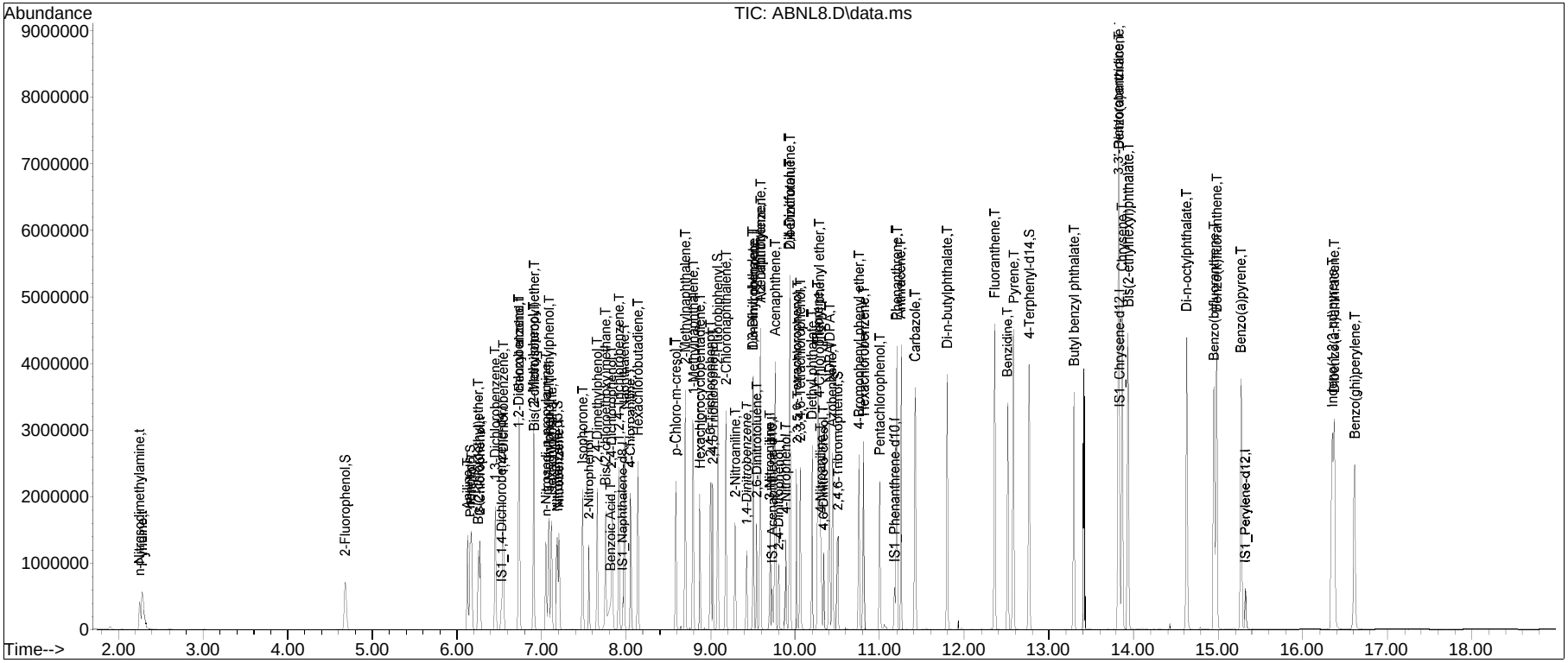
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL8.D
Acq On : 2 Jun 2024 7:59 pm
Operator : SV107:jg
Sample : IL3,32,,ABNL25 Lot# 10692
Misc : WG1929644,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 03 10:58:19 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

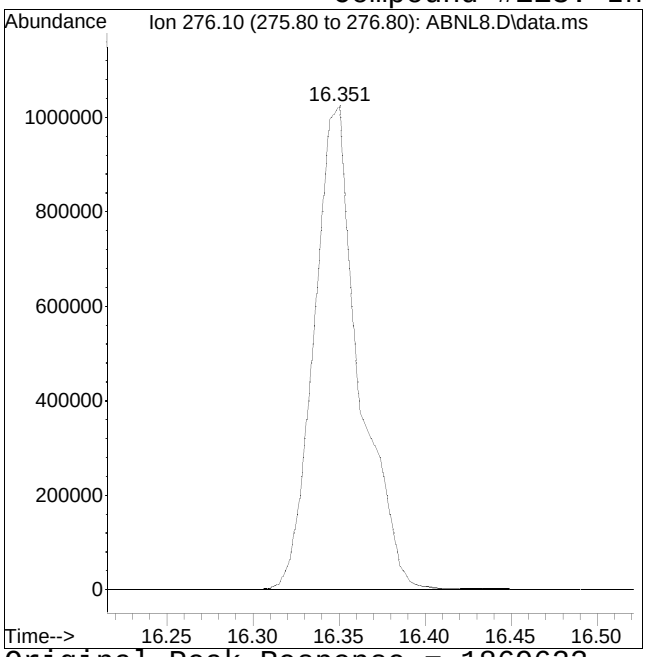
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



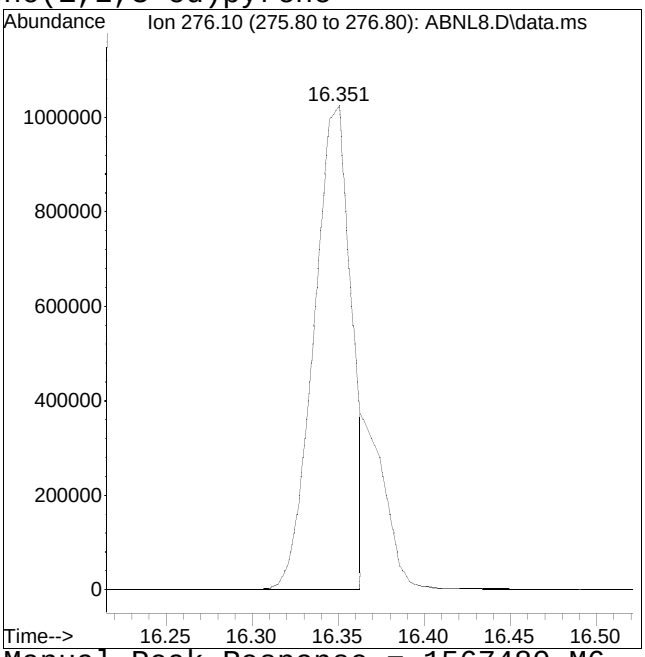
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL8.D Operator : SV107:jg
Date Inj'd : 6/2/2024 7:59 pm Instrument : SV107
Sample : IL3,32,,ABNL25 Lot# 10692 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1869623



Manual Peak Response = 1567480 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	50580	4.000	ug/ml	# 0.00
Standard Area 1 = 52051			Recovery = 97.17%			
34) IS1_Naphthalene-d8	7.957	136	189779	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 99.70%			
62) IS1_Acenaphthene-d10	9.728	164	120288	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 97.03%			
87) IS1_Phenanthrene-d10	11.175	188	242511	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 96.14%			
103) IS1_Chrysene-d12	13.839	240	225785	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 96.52%			
112) IS1_Perylene-d12	15.327	264	227351	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 94.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.681	112	140251	9.458	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 472.90%#			
7) Phenol-d6	6.157	99	171152	9.102	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 455.10%#			
19) Nitrobenzene-d5	7.181	82	158345	9.180	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 918.00%#			
45) 2-Fluorobiphenyl	9.081	172	416312	9.533	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 953.30%#			
78) 2,4,6-Tribromophenol	10.498	330	59817	13.308	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 665.40%#			
95) 4-Terphenyl-d14	12.763	244	536294	10.045	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1004.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.252	74	91909	8.817	ug/ml#	68
3) Pyridine	2.287	79	149892	9.892	ug/ml#	59
5) Aniline	6.128	93	224771	10.061	ug/ml	97
6) 2-Chlorophenol	6.269	128	153985	9.455	ug/ml	94
8) Phenol	6.175	94	185122	9.031	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	150367	8.838	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	187197	9.274	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	187019	9.033	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	181846	9.216	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	131627	9.766	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.910	45	210116	9.147	ug/ml#	47
15) 2-Methylphenol	6.904	108	136533	9.514	ug/ml	98
16) Hexachloroethane	7.116	117	70827	9.607	ug/ml#	62
17) n-Nitrosodi-n-propylamine	7.057	70	116160	10.034	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	145224	9.352	ug/ml	97
20) Nitrobenzene	7.204	77	163172	9.238	ug/ml	98
21) Isophorone	7.481	82	312334	10.261	ug/ml	96
22) 2-Nitrophenol	7.563	139	73882	10.183	ug/ml	91
23) 2,4-Dimethylphenol	7.657	107	142398	11.770	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	196961	9.591	ug/ml	100
25) 2,4-Dichlorophenol	7.828	162	149306	10.542	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	168900	9.140	ug/ml	97
35) Naphthalene	7.975	128	462458	8.686	ug/ml	99
36) Benzoic Acid	7.775	105	97433	8.547	ug/ml	94
37) 4-Chloroaniline	8.057	65	61841	9.484	ug/ml	88
38) Hexachlorobutadiene	8.145	225	102228	9.466	ug/ml	98
39) p-Chloro-m-cresol	8.581	107	141106	10.443	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	332525	9.401	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	113176	9.357	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	106521	13.592	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	125341	11.725	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	129505	11.168	ug/ml	99
46) 2-Chloronaphthalene	9.181	162	342590	9.637	ug/ml	95
47) 2-Nitroaniline	9.292	138	93043	8.819	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	43565	8.665	ug/ml	77
49) 1,3-Dinitrobenzene	9.498	168	53332	10.484	ug/ml#	1
50) Dimethyl phthalate	9.498	163	403736	10.283	ug/ml#	98
51) Acenaphthylene	9.586	152	537132	10.044	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	81168	9.623	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	36142	10.016	ug/ml#	1
63) 3-Nitroaniline	9.698	138	85128	9.353	ug/ml	99
64) Acenaphthene	9.757	154	318784	9.402	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	41498	9.163	ug/ml	89
66) Dibenzofuran	9.928	168	526706	9.461	ug/ml	93
67) 2,4-Dinitrotoluene	9.928	165	112821	9.357	ug/ml	94
68) 4-Nitrophenol	9.881	65	71517	9.320	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.022	232	110202	11.573	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	105281	10.906	ug/ml	97
71) Diethyl phthalate	10.192	149	399950	10.217	ug/ml	97
72) Fluorene	10.263	166	400866	9.580	ug/ml	92
73) 4-Chlorophenyl phenyl ...	10.281	204	203850	9.458	ug/ml	89
74) 4-Nitroaniline	10.292	138	90166	9.832	ug/ml	84
75) 4,6-Dinitro-o-cresol	10.328	198	61794	9.921	ug/ml#	61
76) NDPA/DPA	10.398	169	346541	10.322	ug/ml	96
77) Azobenzene	10.433	77	391138	9.913	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	113207	10.006	ug/ml#	88
80) Hexachlorobenzene	10.810	284	126399	10.123	ug/ml#	87
81) Pentachlorophenol	11.004	266	82964	10.741	ug/ml	99
88) Phenanthrene	11.192	178	617237	9.156	ug/ml	99
89) Anthracene	11.245	178	640850	10.062	ug/ml	99
90) Carbazole	11.410	167	585984	10.143	ug/ml	98
91) Di-n-butylphthalate	11.798	149	738655	12.016	ug/ml	99
92) Fluoranthene	12.357	202	737284	10.168	ug/ml#	92
93) Benzidine	12.510	184	483670	12.353	ug/ml#	95
94) Pyrene	12.574	202	780477	9.946	ug/ml	99
96) Butyl benzyl phthalate	13.298	149	315052	10.773	ug/ml	92
104) Benzo(a)anthracene	13.827	228	782320	10.279	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.827	252	281272	12.255	ug/ml#	97
106) Chrysene	13.868	228	707807	9.240	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.945	149	509174	11.959	ug/ml#	95
108) Di-n-octylphthalate	14.633	149	832000	11.991	ug/ml#	74
109) Benzo(b)fluoranthene	14.957	252	709383	10.754	ug/ml#	94
110) Benzo(k)fluoranthene	14.980	252	689771	10.112	ug/ml#	93
111) Benzo(a)pyrene	15.274	252	632662	10.698	ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	16.345	276	632674M6	11.821	ug/mL	
114) Dibenzo(a,h)anthracene	16.374	278	627698	11.184	ug/ml#	91
115) Benzo(ghi)perylene	16.615	276	579928	10.298	ug/ml#	88

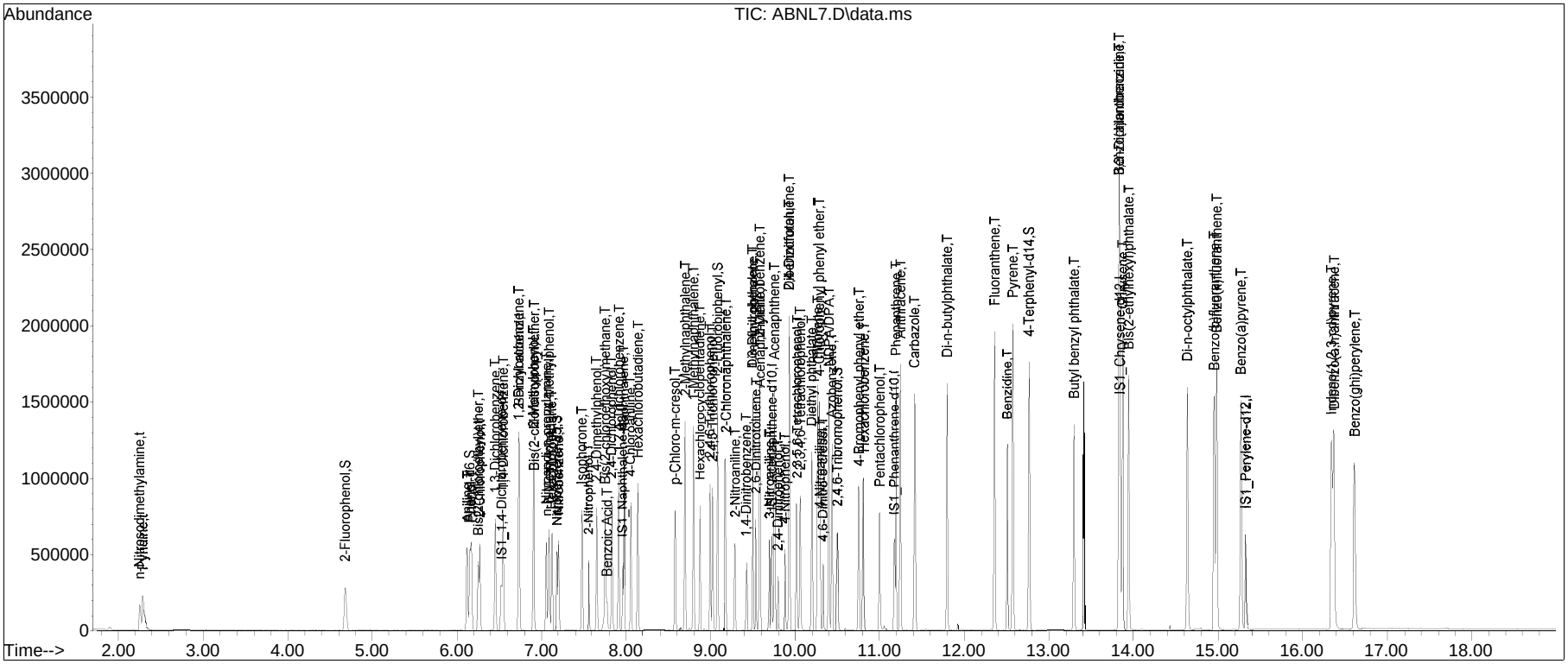
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL7.D
Acq On : 2 Jun 2024 8:24 pm
Operator : SV107:jg
Sample : IL4,32,,ABNL10 Lot# 10693
Misc : WG1929644,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 03 10:57:33 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

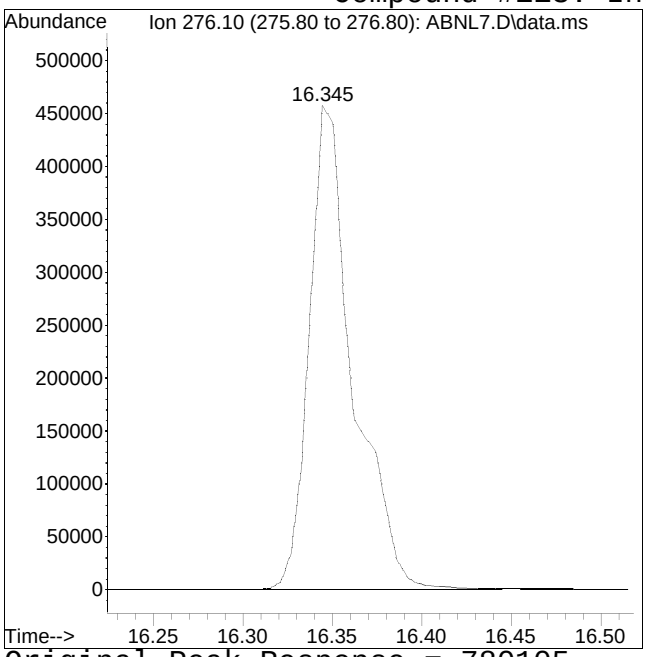
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



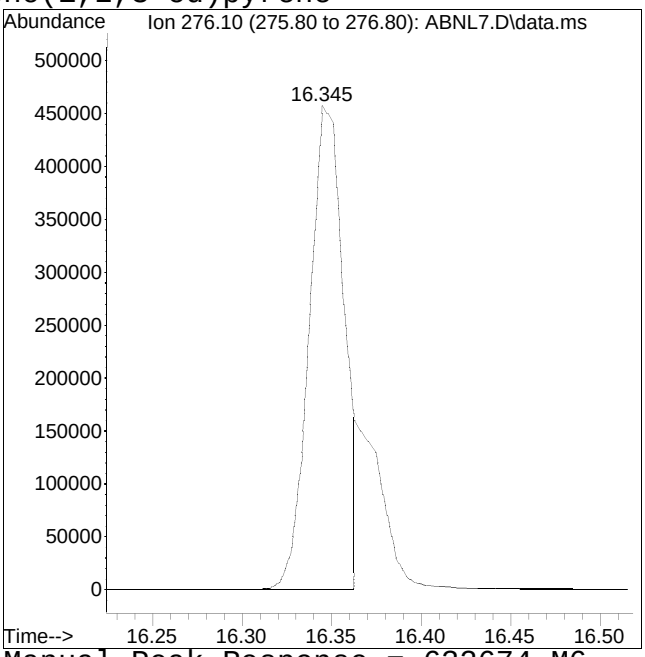
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL7.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:24 pm Instrument : SV107
Sample : IL4,32,,ABNL10 Lot# 10693 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 780105



Manual Peak Response = 632674 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	52051	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 100.00%			
34) IS1_Naphthalene-d8	7.957	136	190351	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	9.728	164	123969	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	11.169	188	252252	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 100.00%			
103) IS1_Chrysene-d12	13.839	240	233929	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 100.00%			
112) IS1_Perylene-d12	15.321	264	241074	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	67481	4.422	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 221.10%#			
7) Phenol-d6	6.157	99	82234	4.250	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 212.50%#			
19) Nitrobenzene-d5	7.187	82	75078	4.230	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 423.00%#			
45) 2-Fluorobiphenyl	9.081	172	195530	4.464	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 446.40%#			
78) 2,4,6-Tribromophenol	10.498	330	27324	5.898	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 294.90%#			
95) 4-Terphenyl-d14	12.763	244	252334	4.544	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 454.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.269	74	44897	4.185	ug/ml#	68
3) Pyridine	2.316	79	74928	4.805	ug/ml#	60
5) Aniline	6.128	93	106131	4.616	ug/ml	96
6) 2-Chlorophenol	6.275	128	73258	4.371	ug/ml	95
8) Phenol	6.175	94	88385	4.190	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	71054	4.058	ug/ml#	83
10) 1,3-Dichlorobenzene	6.457	146	88597	4.265	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	90239	4.235	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	86995	4.285	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	61710	4.449	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	97707	4.133	ug/ml#	46
15) 2-Methylphenol	6.904	108	64538	4.370	ug/ml	98
16) Hexachloroethane	7.122	117	33608	4.430	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	54342	4.561	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.087	108	70342	4.402	ug/ml	99
20) Nitrobenzene	7.204	77	77212	4.248	ug/ml	97
21) Isophorone	7.481	82	146190	4.667	ug/ml	97
22) 2-Nitrophenol	7.563	139	32431	4.344	ug/ml#	91
23) 2,4-Dimethylphenol	7.657	107	68596	5.510	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.751	93	91731	4.340	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	71051	4.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	79423	4.177	ug/ml	97
35) Naphthalene	7.975	128	219752	4.115	ug/ml	99
36) Benzoic Acid	7.751	105	39209	3.814	ug/ml	93
37) 4-Chloroaniline	8.057	65	28470	4.353	ug/ml	86
38) Hexachlorobutadiene	8.145	225	46528	4.296	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	65253	4.815	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	155750	4.390	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	52377	4.318	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	46736	5.945	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	57691	5.380	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	60992	5.244	ug/ml	99
46) 2-Chloronaphthalene	9.175	162	160578	4.503	ug/ml	96
47) 2-Nitroaniline	9.286	138	41476	4.073	ug/ml	90
48) 1,4-Dinitrobenzene	9.422	168	18043	3.774	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	23649	4.635	ug/ml#	1
50) Dimethyl phthalate	9.492	163	192449	4.887	ug/ml#	98
51) Acenaphthylene	9.581	152	249719	4.656	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37890	4.546	ug/ml#	81
53) 1,2-Dinitrobenzene	9.581	168	16640	4.669	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39765	4.239	ug/ml	98
64) Acenaphthene	9.757	154	150990	4.321	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	17570	4.186	ug/ml#	88
66) Dibenzofuran	9.928	168	248513	4.331	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	50309	4.128	ug/ml	93
68) 4-Nitrophenol	9.880	65	32068	4.055	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	10.016	232	49938	5.089	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	49836	5.009	ug/ml	99
71)	Diethyl phthalate	10.192	149	185259	4.592	ug/ml	97
72)	Fluorene	10.263	166	191054	4.430	ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.280	204	95118	4.282	ug/ml	89
74)	4-Nitroaniline	10.286	138	38840	4.109	ug/ml#	87
75)	4,6-Dinitro-o-cresol	10.322	198	24123	3.994	ug/ml#	63
76)	NDPA/DPA	10.398	169	163792	4.734	ug/ml	95
77)	Azobenzene	10.433	77	185513	4.562	ug/ml	97
79)	4-Bromophenyl phenyl e...	10.751	248	53585	4.596	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	60424	4.696	ug/ml#	86
81)	Pentachlorophenol	11.004	266	36681	4.762	ug/ml	98
88)	Phenanthrene	11.192	178	298395	4.256	ug/ml	99
89)	Anthracene	11.245	178	297441	4.490	ug/ml	98
90)	Carbazole	11.410	167	277150	4.612	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	329073	5.146	ug/ml	99
92)	Fluoranthene	12.357	202	344549	4.568	ug/ml#	91
93)	Benzidine	12.504	184	212574	5.220	ug/ml#	95
94)	Pyrene	12.574	202	366283	4.488	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	133030	4.681	ug/ml	93
104)	Benzo(a)anthracene	13.827	228	356055	4.515	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.821	252	126297	5.311	ug/ml#	96
106)	Chrysene	13.863	228	340032	4.284	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	216588	5.250	ug/ml#	95
108)	Di-n-octylphthalate	14.627	149	335349	5.215	ug/ml#	74
109)	Benzo(b)fluoranthene	14.951	252	323786	4.738	ug/ml#	94
110)	Benzo(k)fluoranthene	14.974	252	322366	4.561	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	286717	4.680	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.345	276	267407M6	4.712	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	289650	4.867	ug/ml#	90
115)	Benzo(ghi)perylene	16.615	276	264525	4.430	ug/ml#	88

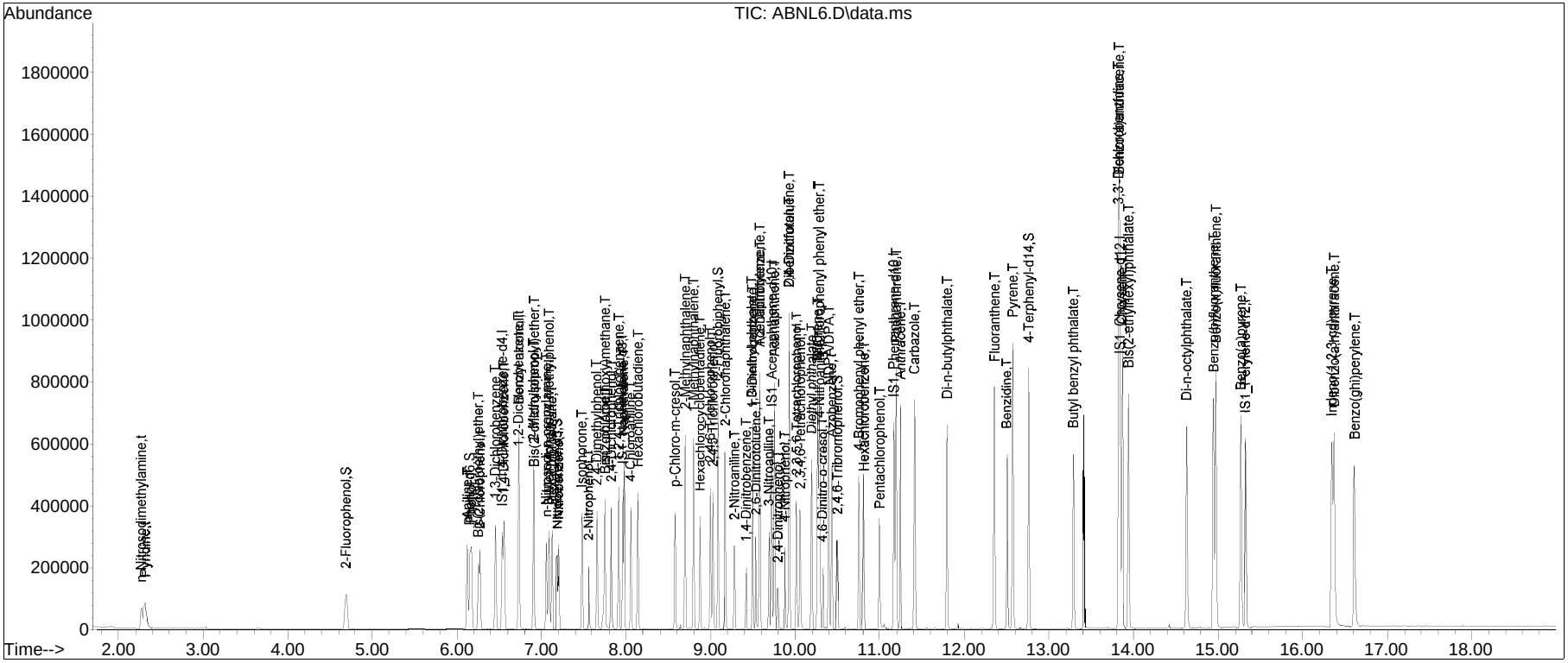
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL6.D
Acq On : 2 Jun 2024 8:50 pm
Operator : SV107:jg
Sample : IL5,32,,ABNL5 Lot# 10694
Misc : WG1929644,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:56:31 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

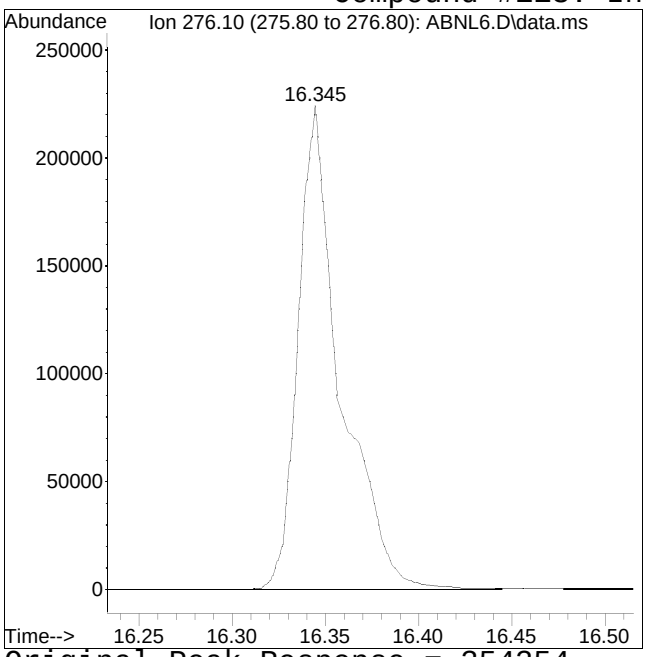
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



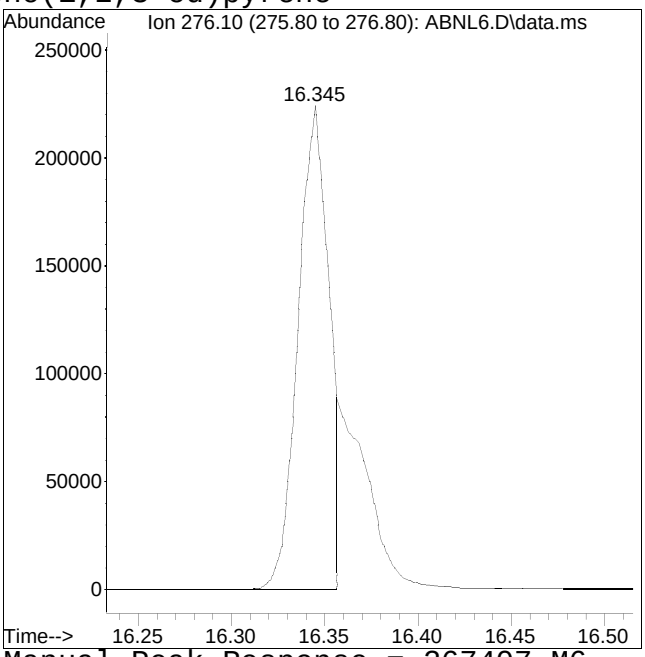
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL6.D Operator : SV107:jg
Date Inj'd : 6/2/2024 8:50 pm Instrument : SV107
Sample : IL5,32,,ABNL5 Lot# 10694 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 354354



Manual Peak Response = 267407 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.534	152	51948	4.000	ug/ml		0.00
Standard Area 1 = 52051			Recovery = 99.80%				
34) IS1_Naphthalene-d8	7.957	136	191507	4.000	ug/ml		0.00
Standard Area 1 = 190351			Recovery = 100.61%				
62) IS1_Acenaphthene-d10	9.728	164	118652	4.000	ug/ml		0.00
Standard Area 1 = 123969			Recovery = 95.71%				
87) IS1_Phenanthrene-d10	11.169	188	243366	4.000	ug/ml		0.00
Standard Area 1 = 252252			Recovery = 96.48%				
103) IS1_Chrysene-d12	13.839	240	223632	4.000	ug/ml	#	0.00
Standard Area 1 = 233929			Recovery = 95.60%				
112) IS1_Perylene-d12	15.327	264	232683	4.000	ug/ml		0.00
Standard Area 1 = 241074			Recovery = 96.52%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.693	112	32992	2.166	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 108.30%				
7) Phenol-d6	6.157	99	40252	2.084	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 104.20%				
19) Nitrobenzene-d5	7.187	82	34681	1.958	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 195.80%#				
45) 2-Fluorobiphenyl	9.081	172	98186	2.228	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 222.80%#				
78) 2,4,6-Tribromophenol	10.498	330	12813	2.890	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 144.50%#				
95) 4-Terphenyl-d14	12.763	244	126539	2.362	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 236.20%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.269	74	21694	2.026	ug/ml	#	69
3) Pyridine	2.316	79	36569	2.350	ug/ml	#	60
5) Aniline	6.128	93	52329	2.281	ug/ml		97
6) 2-Chlorophenol	6.269	128	35639	2.131	ug/ml		94
8) Phenol	6.169	94	43788	2.080	ug/ml		98
9) Bis(2-chloroethyl)ether	6.251	93	35010	2.004	ug/ml	#	85
10) 1,3-Dichlorobenzene	6.457	146	43832	2.114	ug/ml		98
11) 1,4-Dichlorobenzene	6.551	146	44202	2.079	ug/ml		99
12) 1,2-Dichlorobenzene	6.728	146	42719	2.108	ug/ml		98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	29820	2.154	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	47835	2.028	ug/ml#	46
15) 2-Methylphenol	6.904	108	30807	2.090	ug/ml	99
16) Hexachloroethane	7.122	117	15915	2.102	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	26538	2.232	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.087	108	33130	2.077	ug/ml	97
20) Nitrobenzene	7.204	77	36114	1.991	ug/ml	98
21) Isophorone	7.481	82	71350	2.282	ug/ml	97
22) 2-Nitrophenol	7.563	139	15185	2.038	ug/ml	90
23) 2,4-Dimethylphenol	7.657	107	33295	2.680	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	45647	2.164	ug/ml	98
25) 2,4-Dichlorophenol	7.828	162	33869	2.328	ug/ml	93
26) 1,2,4-Trichlorobenzene	7.910	180	39855	2.100	ug/ml	96
35) Naphthalene	7.975	128	112832	2.100	ug/ml	99
36) Benzoic Acid	7.734	105	14867	1.830	ug/ml	93
37) 4-Chloroaniline	8.057	65	14733	2.239	ug/ml	90
38) Hexachlorobutadiene	8.145	225	23200	2.129	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	31428	2.305	ug/ml	97
40) 2-Methylnaphthalene	8.698	142	76915	2.155	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	26576	2.177	ug/ml	95
42) Hexachlorocyclopentadiene	8.875	237	22844	2.889	ug/ml	98
43) 2,4,6-Trichlorophenol	8.992	196	27480	2.547	ug/ml	100
44) 2,4,5-Trichlorophenol	9.022	196	29318	2.505	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	80609	2.247	ug/ml	96
47) 2-Nitroaniline	9.286	138	17978	1.912	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	7891	1.829	ug/ml	85
49) 1,3-Dinitrobenzene	9.498	168	10078	1.963	ug/ml#	1
50) Dimethyl phthalate	9.492	163	96348	2.432	ug/ml#	98
51) Acenaphthylene	9.581	152	122095	2.263	ug/ml	99
52) 2,6-Dinitrotoluene	9.534	165	17364	2.140	ug/ml#	83
53) 1,2-Dinitrobenzene	9.581	168	7673	2.212	ug/ml#	1
63) 3-Nitroaniline	9.692	138	18646	2.077	ug/ml	99
64) Acenaphthene	9.757	154	73152	2.187	ug/ml	91
65) 2,4-Dinitrophenol	9.798	184	7098	2.180	ug/ml	88
66) Dibenzofuran	9.928	168	124602	2.269	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	22438	1.998	ug/ml	93
68) 4-Nitrophenol	9.881	65	15543	2.053	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.016	232	24185	2.575	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	23877	2.507	ug/ml	98
71)	Diethyl phthalate	10.192	149	94958	2.459	ug/ml	97
72)	Fluorene	10.263	166	95021	2.302	ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.281	204	48015	2.258	ug/ml	89
74)	4-Nitroaniline	10.286	138	19073	2.108	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.322	198	10235	1.982	ug/ml#	65
76)	NDPA/DPA	10.398	169	82088	2.479	ug/ml	95
77)	Azobenzene	10.433	77	91105	2.341	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	26481	2.373	ug/ml#	87
80)	Hexachlorobenzene	10.810	284	30207	2.453	ug/ml#	85
81)	Pentachlorophenol	11.004	266	17540	2.514	ug/ml	99
88)	Phenanthrene	11.192	178	148667	2.198	ug/ml	99
89)	Anthracene	11.245	178	149282	2.336	ug/ml	99
90)	Carbazole	11.410	167	136900	2.361	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	151033	2.448	ug/ml	99
92)	Fluoranthene	12.357	202	171304	2.354	ug/ml#	92
93)	Benzidine	12.504	184	98680	2.512	ug/ml#	94
94)	Pyrene	12.574	202	183111	2.325	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	59665	2.388	ug/ml	94
104)	Benzo(a)anthracene	13.827	228	176990	2.348	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	58805	2.587	ug/ml#	96
106)	Chrysene	13.863	228	173773	2.290	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	98585	2.626	ug/ml#	96
108)	Di-n-octylphthalate	14.633	149	149078	2.664	ug/ml#	74
109)	Benzo(b)fluoranthene	14.957	252	163103	2.496	ug/ml#	94
110)	Benzo(k)fluoranthene	14.980	252	157224	2.327	ug/ml#	94
111)	Benzo(a)pyrene	15.274	252	141779	2.421	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.351	276	139453M6	2.546	ug/mL	
114)	Dibenzo(a,h)anthracene	16.374	278	138436	2.410	ug/ml#	90
115)	Benzo(ghi)perylene	16.621	276	135255	2.347	ug/ml#	87

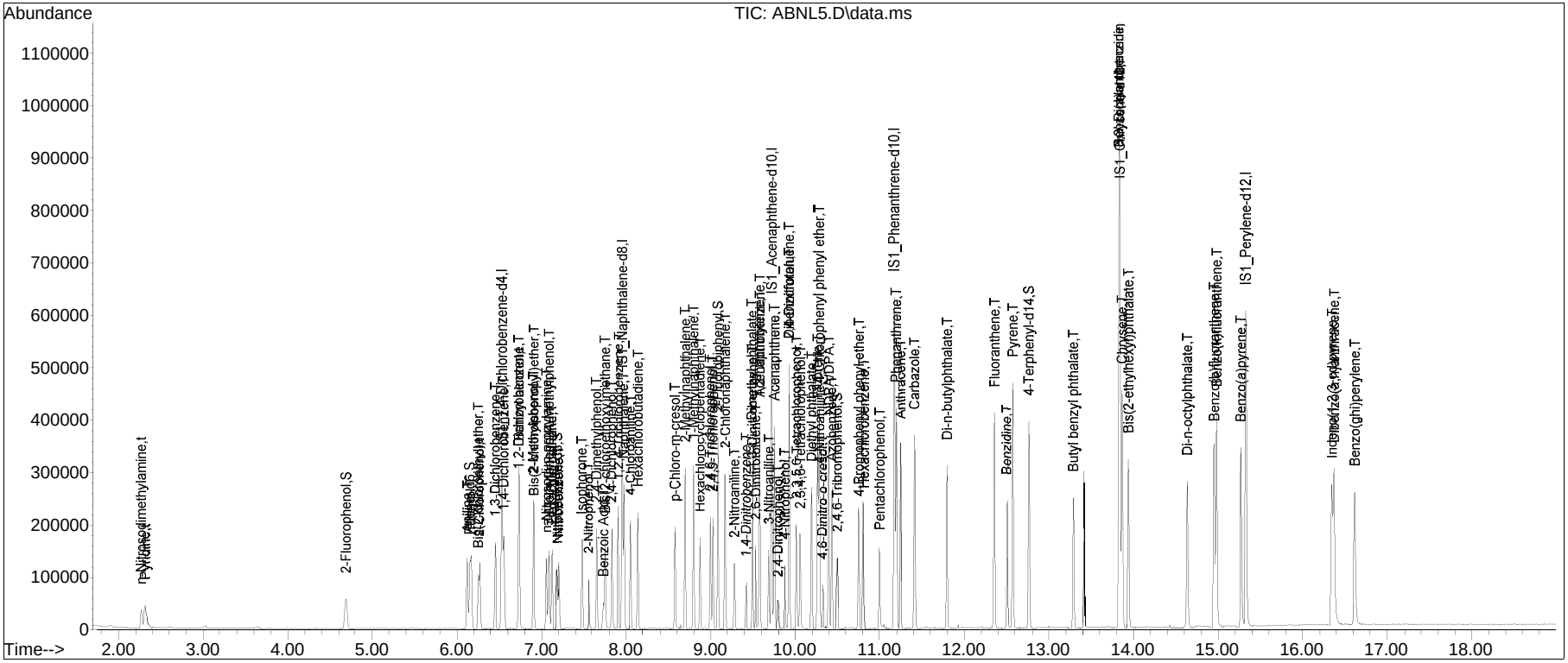
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL5.D
Acq On : 2 Jun 2024 9:15 pm
Operator : SV107:jg
Sample : IL6,32,,ABNL2.5 Lot# 10695
Misc : WG1929644,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 03 10:55:50 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

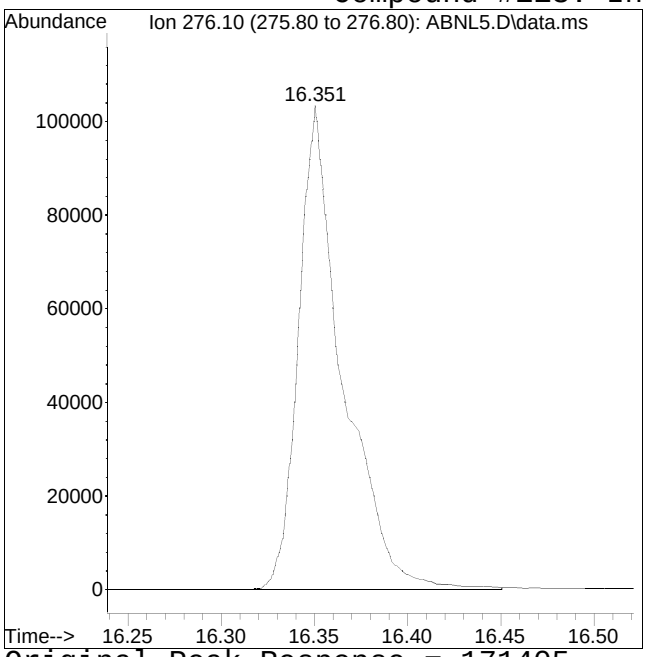
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



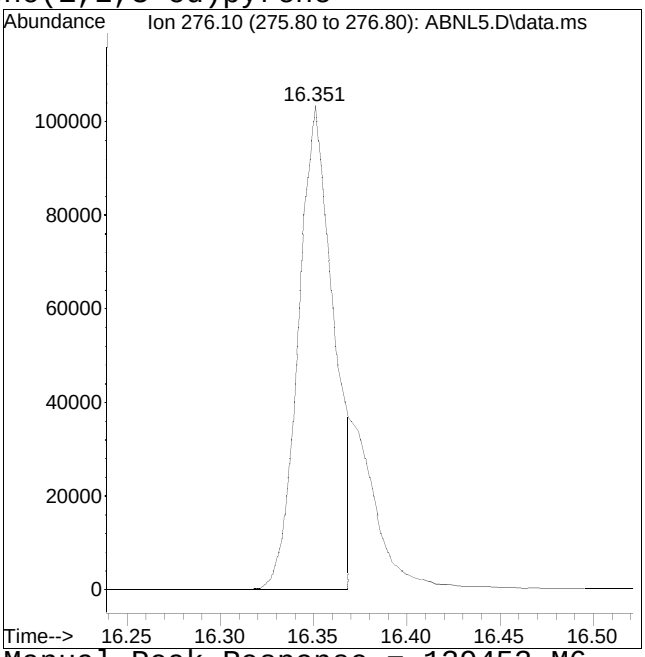
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL5.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:15 pm Instrument : SV107
Sample : IL6,32,,ABNL2.5 Lot# 10695Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 171405



Manual Peak Response = 139453 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	47882	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 91.99%			
34) IS1_Naphthalene-d8	7.957	136	173049	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 90.91%			
62) IS1_Acenaphthene-d10	9.728	164	107016	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 86.32%			
87) IS1_Phenanthrene-d10	11.175	188	213882	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 84.79%			
103) IS1_Chrysene-d12	13.839	240	198208	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 84.73%			
112) IS1_Perylene-d12	15.327	264	204859	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.98%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.693	112	11542	0.822	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.10%			
7) Phenol-d6	6.157	99	14374	0.807	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 40.35%			
19) Nitrobenzene-d5	7.187	82	12092	0.741	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 74.10%			
45) 2-Fluorobiphenyl	9.081	172	34242	0.860	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 86.00%			
78) 2,4,6-Tribromophenol	10.498	330	4507	1.127	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 56.35%			
95) 4-Terphenyl-d14	12.763	244	43560	0.925	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 92.50%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	7670	0.777	ug/ml#	72
3) Pyridine	2.322	79	12809	0.893	ug/ml#	59
5) Aniline	6.128	93	18846	0.891	ug/ml	96
6) 2-Chlorophenol	6.275	128	12212	0.792	ug/ml	94
8) Phenol	6.175	94	15459	0.797	ug/ml	96
9) Bis(2-chloroethyl)ether	6.251	93	12397	0.770	ug/ml#	84
10) 1,3-Dichlorobenzene	6.457	146	15335	0.802	ug/ml	96
11) 1,4-Dichlorobenzene	6.551	146	15625	0.797	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	15217	0.815	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	10673	0.837	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	17153	0.789	ug/ml#	45
15) 2-Methylphenol	6.904	108	10850	0.799	ug/ml	97
16) Hexachloroethane	7.122	117	5695	0.816	ug/ml#	60
17) n-Nitrosodi-n-propylamine	7.057	70	9423	0.860	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.087	108	11799	0.803	ug/ml	95
20) Nitrobenzene	7.204	77	12536	0.750	ug/ml	95
21) Isophorone	7.487	82	25850	0.897	ug/ml	97
22) 2-Nitrophenol	7.563	139	4723	0.688	ug/ml#	93
23) 2,4-Dimethylphenol	7.657	107	12053	1.052	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	16927	0.871	ug/ml#	97
25) 2,4-Dichlorophenol	7.828	162	11726	0.875	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	13712	0.784	ug/ml	97
35) Naphthalene	7.975	128	38557	0.794	ug/ml	99
36) Benzoic Acid	7.722	105	2689	0.869	ug/ml#	84
37) 4-Chloroaniline	8.057	65	4974	0.837	ug/ml	82
38) Hexachlorobutadiene	8.145	225	7822	0.794	ug/ml	99
39) p-Chloro-m-cresol	8.581	107	11029	0.895	ug/ml	99
40) 2-Methylnaphthalene	8.698	142	27453	0.851	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	9382	0.851	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	7325	1.025	ug/ml	96
43) 2,4,6-Trichlorophenol	8.992	196	9310	0.955	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	9747	0.922	ug/ml	96
46) 2-Chloronaphthalene	9.175	162	28231	0.871	ug/ml	96
47) 2-Nitroaniline	9.292	138	5856	0.866	ug/ml	93
48) 1,4-Dinitrobenzene	9.422	168	2377	0.833	ug/ml	90
49) 1,3-Dinitrobenzene	9.498	168	3227	0.696	ug/ml#	1
50) Dimethyl phthalate	9.492	163	34231	0.956	ug/ml#	98
51) Acenaphthylene	9.581	152	43434	0.891	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	5358	0.814	ug/ml	86
53) 1,2-Dinitrobenzene	9.581	168	2371	0.843	ug/ml#	1
63) 3-Nitroaniline	9.692	138	5549	0.685	ug/ml#	91
64) Acenaphthene	9.757	154	27580	0.914	ug/ml	93
65) 2,4-Dinitrophenol	9.798	184	1637	1.089	ug/ml	88
66) Dibenzofuran	9.928	168	44001	0.888	ug/ml	94
67) 2,4-Dinitrotoluene	9.928	165	6766	0.761	ug/ml#	86
68) 4-Nitrophenol	9.880	65	4785	0.701	ug/ml#	92
69) 2,3,5,6-Tetrachlorophenol	10.022	232	7620	0.899	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	7797	0.908	ug/ml	99
71)	Diethyl phthalate	10.192	149	32198	0.925	ug/ml	97
72)	Fluorene	10.263	166	33268	0.894	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.280	204	16775	0.875	ug/ml	89
74)	4-Nitroaniline	10.286	138	5890	0.722	ug/ml#	88
75)	4,6-Dinitro-o-cresol	10.322	198	2568	0.826	ug/ml#	82
76)	NDPA/DPA	10.398	169	28267	0.946	ug/ml	93
77)	Azobenzene	10.433	77	31686	0.903	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.757	248	8962	0.890	ug/ml#	89
80)	Hexachlorobenzene	10.810	284	11017	0.992	ug/ml#	87
81)	Pentachlorophenol	11.004	266	4887	0.963	ug/ml	99
88)	Phenanthrene	11.192	178	52508	0.883	ug/ml	98
89)	Anthracene	11.245	178	50911	0.906	ug/ml	99
90)	Carbazole	11.410	167	47456	0.931	ug/ml	99
91)	Di-n-butylphthalate	11.798	149	49974	0.922	ug/ml	99
92)	Fluoranthene	12.357	202	58826	0.920	ug/ml#	92
93)	Benzidine	12.504	184	30384	0.880	ug/ml#	95
94)	Pyrene	12.574	202	64332	0.930	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	17420	1.040	ug/ml	98
104)	Benzo(a)anthracene	13.827	228	60892	0.911	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.827	252	18732	0.930	ug/ml#	97
106)	Chrysene	13.863	228	62455	0.929	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	27519	0.935	ug/ml#	94
108)	Di-n-octylphthalate	14.627	149	39122	1.025	ug/ml#	78
109)	Benzo(b)fluoranthene	14.951	252	51194	0.884	ug/ml#	94
110)	Benzo(k)fluoranthene	14.974	252	55477	0.926	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	46234	0.891	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	16.339	276	41077M6	0.852	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	46981	0.929	ug/ml#	91
115)	Benzo(ghi)perylene	16.609	276	46738	0.921	ug/ml#	88

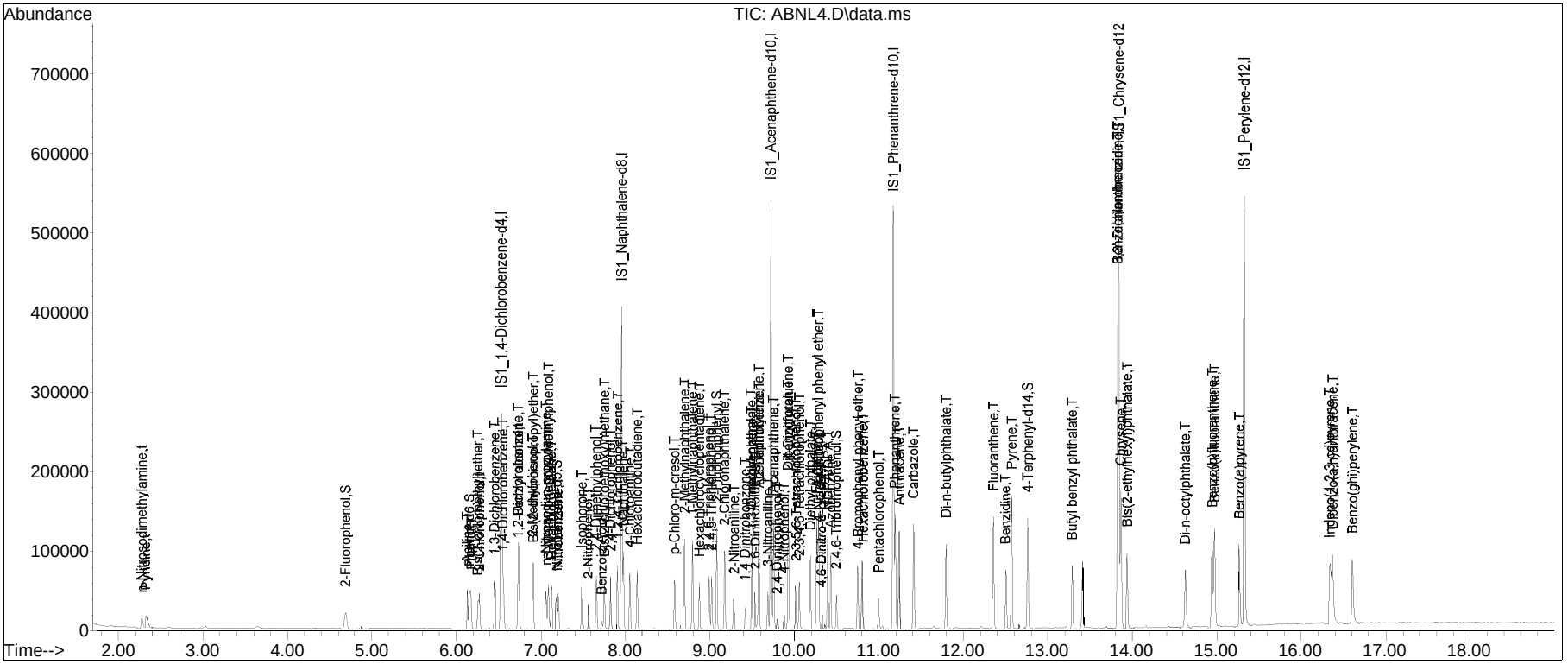
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL4.D
Acq On : 2 Jun 2024 9:40 pm
Operator : SV107:jg
Sample : IL7,32,,ABNL1 Lot# 10696
Misc : WG1929644,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:55:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

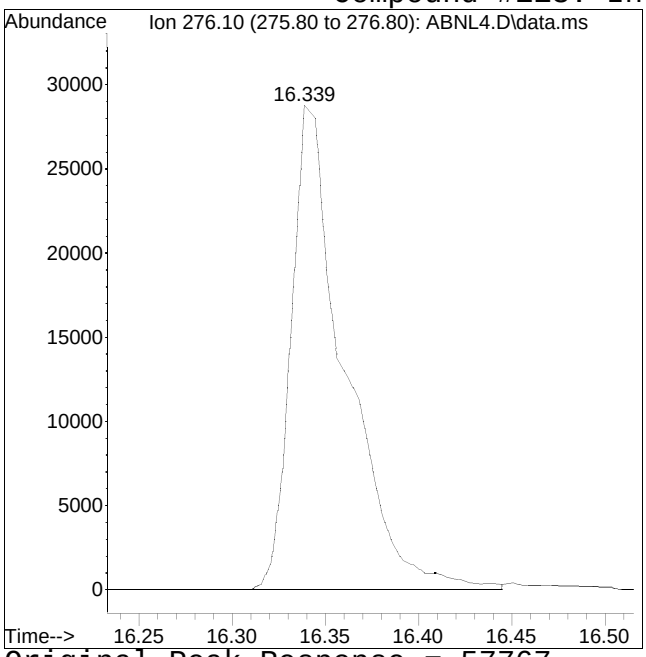
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



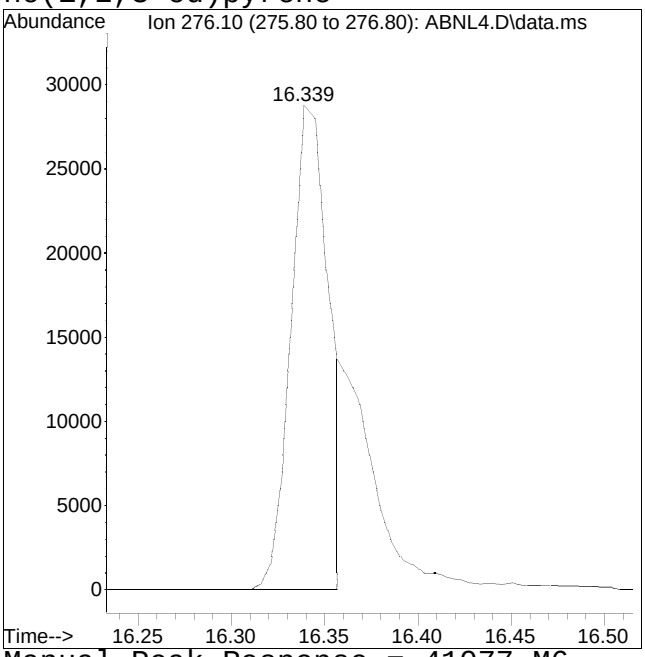
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL4.D Operator : SV107:jg
Date Inj'd : 6/2/2024 9:40 pm Instrument : SV107
Sample : IL7,32,,ABNL1 Lot# 10696 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 57767



Manual Peak Response = 41077 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	45910	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 88.20%			
34) IS1_Naphthalene-d8	7.957	136	170517	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 89.58%			
62) IS1_Acenaphthene-d10	9.727	164	104536	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 84.32%			
87) IS1_Phenanthrene-d10	11.168	188	215844	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 85.57%			
103) IS1_Chrysene-d12	13.839	240	194131	4.000	ug/ml #	0.00
Standard Area 1 = 233929			Recovery = 82.99%			
112) IS1_Perylene-d12	15.327	264	212656	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 88.21%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	6630	0.493	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.65%			
7) Phenol-d6	6.157	99	8372	0.491	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 24.55%			
19) Nitrobenzene-d5	7.186	82	6623	0.423	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 42.30%			
45) 2-Fluorobiphenyl	9.080	172	20041	0.511	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 51.10%			
78) 2,4,6-Tribromophenol	10.498	330	2183	0.559	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.95%			
95) 4-Terphenyl-d14	12.762	244	24689	0.520	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 52.00%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.275	74	4316	0.456	ug/ml#	76
3) Pyridine	2.328	79	7601	0.553	ug/ml#	57
5) Aniline	6.128	93	10454	0.516	ug/ml	97
6) 2-Chlorophenol	6.275	128	7248	0.490	ug/ml	91
8) Phenol	6.175	94	8946	0.481	ug/ml	98
9) Bis(2-chloroethyl)ether	6.257	93	7474	0.484	ug/ml	87
10) 1,3-Dichlorobenzene	6.457	146	8644	0.472	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	8910	0.474	ug/ml	93
12) 1,2-Dichlorobenzene	6.733	146	8601	0.480	ug/ml	99

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	5941	0.486	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.910	45	10112	0.485	ug/ml#	48
15) 2-Methylphenol	6.904	108	6154	0.472	ug/ml	97
16) Hexachloroethane	7.122	117	3438	0.514	ug/ml#	71
17) n-Nitrosodi-n-propylamine	7.063	70	5048	0.480	ug/ml#	83
18) 3-Methylphenol/4-Methy...	7.086	108	6220	0.441	ug/ml	96
20) Nitrobenzene	7.204	77	6977	0.435	ug/ml	91
21) Isophorone	7.486	82	13605	0.492	ug/ml	97
22) 2-Nitrophenol	7.563	139	2382	0.362	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	6407	0.583	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.751	93	9006	0.483	ug/ml#	98
25) 2,4-Dichlorophenol	7.828	162	6393	0.497	ug/ml#	92
26) 1,2,4-Trichlorobenzene	7.910	180	8107	0.483	ug/ml	95
35) Naphthalene	7.975	128	22638	0.473	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	2759	0.471	ug/ml	88
38) Hexachlorobutadiene	8.145	225	4841	0.499	ug/ml	97
39) p-Chloro-m-cresol	8.580	107	5428	0.447	ug/ml	95
40) 2-Methylnaphthalene	8.698	142	15343	0.483	ug/ml	95
41) 1-Methylnaphthalene	8.792	115	5220	0.480	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	4257	0.605	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	4869	0.507	ug/ml	98
44) 2,4,5-Trichlorophenol	9.022	196	5185	0.498	ug/ml	97
46) 2-Chloronaphthalene	9.175	162	16161	0.506	ug/ml	96
47) 2-Nitroaniline	9.286	138	3064	0.589	ug/ml	91
48) 1,4-Dinitrobenzene	9.422	168	1225	0.595	ug/ml	83
49) 1,3-Dinitrobenzene	9.498	168	1423	0.311	ug/ml#	1
50) Dimethyl phthalate	9.492	163	18011	0.511	ug/ml	98
51) Acenaphthylene	9.580	152	23230	0.483	ug/ml	98
52) 2,6-Dinitrotoluene	9.533	165	2476	0.449	ug/ml#	86
53) 1,2-Dinitrobenzene	9.580	168	1131	0.477	ug/ml#	1
63) 3-Nitroaniline	9.692	138	2827	0.357	ug/ml#	95
64) Acenaphthene	9.757	154	15043	0.511	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	528	0.839	ug/ml#	25
66) Dibenzofuran	9.927	168	23909	0.494	ug/ml	92
67) 2,4-Dinitrotoluene	9.927	165	3243	0.445	ug/ml#	84
68) 4-Nitrophenol	9.880	65	2237	0.335	ug/ml#	91
69) 2,3,5,6-Tetrachlorophenol	10.022	232	4086	0.494	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	3872	0.462	ug/ml	99
71)	Diethyl phthalate	10.192	149	17886	0.526	ug/ml	99
72)	Fluorene	10.263	166	18068	0.497	ug/ml	91
73)	4-Chlorophenyl phenyl ...	10.280	204	9280	0.495	ug/ml	90
74)	4-Nitroaniline	10.286	138	2755	0.346	ug/ml#	91
75)	4,6-Dinitro-o-cresol	10.321	198	1106	0.577	ug/ml#	72
76)	NDPA/DPA	10.398	169	15682	0.537	ug/ml	96
77)	Azobenzene	10.427	77	17021	0.496	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.751	248	5266	0.536	ug/ml#	86
80)	Hexachlorobenzene	10.804	284	5909	0.545	ug/ml#	89
81)	Pentachlorophenol	11.004	266	2114	0.577	ug/ml	98
88)	Phenanthrene	11.192	178	30473	0.508	ug/ml	99
89)	Anthracene	11.239	178	29062	0.513	ug/ml	99
90)	Carbazole	11.410	167	25772	0.501	ug/ml	98
91)	Di-n-butylphthalate	11.798	149	25628	0.468	ug/ml	98
92)	Fluoranthene	12.351	202	32526	0.504	ug/ml#	92
93)	Benzidine	12.504	184	15314	0.439	ug/ml#	93
94)	Pyrene	12.574	202	35309	0.506	ug/ml	98
96)	Butyl benzyl phthalate	13.292	149	8253	0.683	ug/ml#	97
104)	Benzo(a)anthracene	13.827	228	33174	0.507	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.821	252	9158	0.464	ug/ml	98
106)	Chrysene	13.862	228	33894	0.515	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	13528	0.542	ug/ml	95
108)	Di-n-octylphthalate	14.627	149	17580	0.643	ug/ml#	79
109)	Benzo(b)fluoranthene	14.951	252	28728	0.507	ug/ml#	95
110)	Benzo(k)fluoranthene	14.980	252	29824	0.509	ug/ml#	93
111)	Benzo(a)pyrene	15.268	252	25584	0.503	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	16.345	276	21117M6	0.422	ug/mL	
114)	Dibenzo(a,h)anthracene	16.368	278	25041	0.477	ug/ml#	88
115)	Benzo(ghi)perylene	16.615	276	26511	0.503	ug/ml#	84

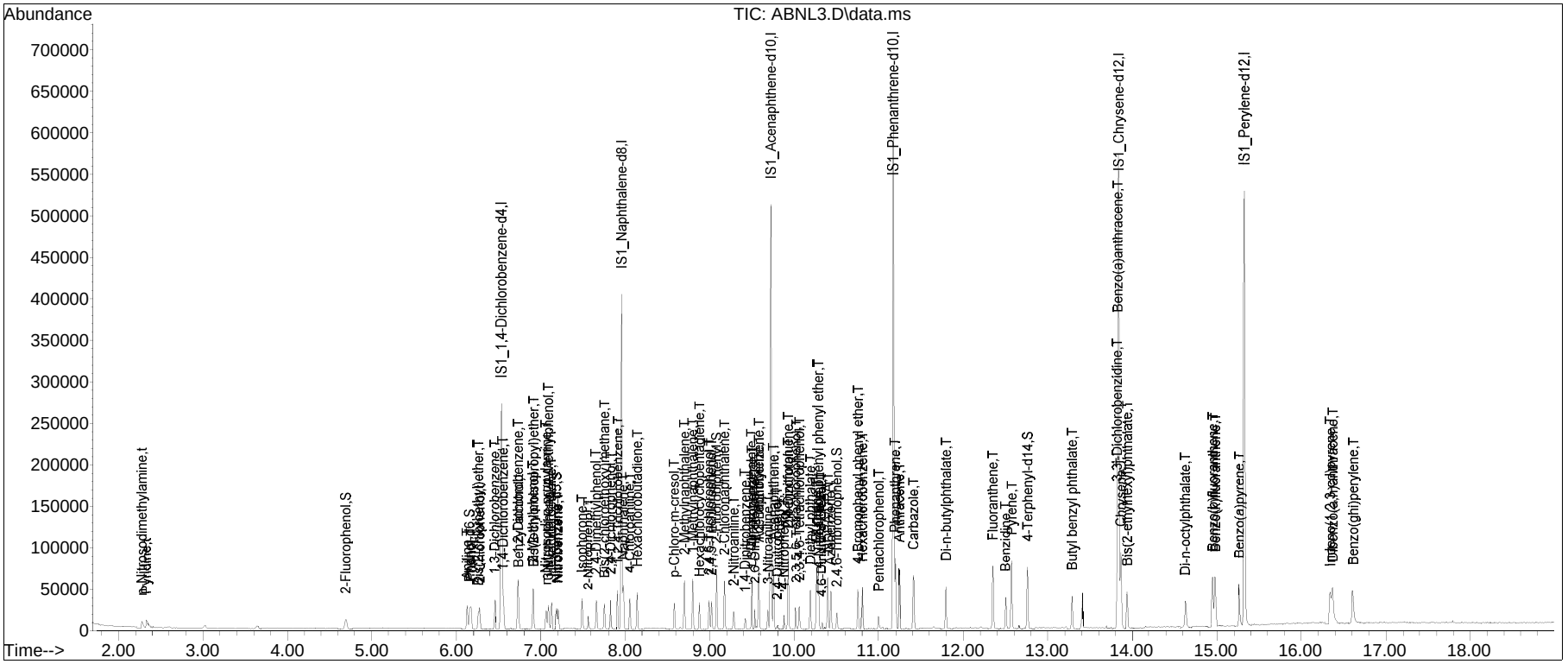
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL3.D
Acq On : 2 Jun 2024 10:05 pm
Operator : SV107:jg
Sample : IL8,32,,ABNL0.5 Lot# 10697
Misc : WG1929644,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:54:24 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

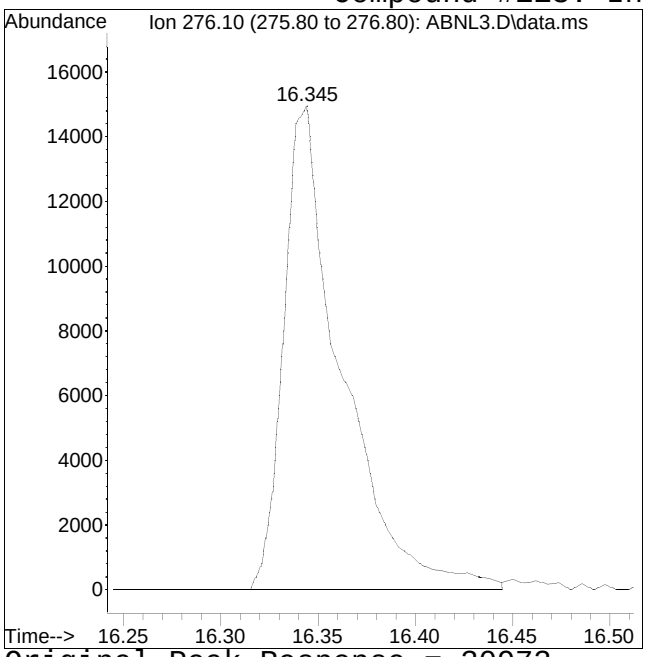
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



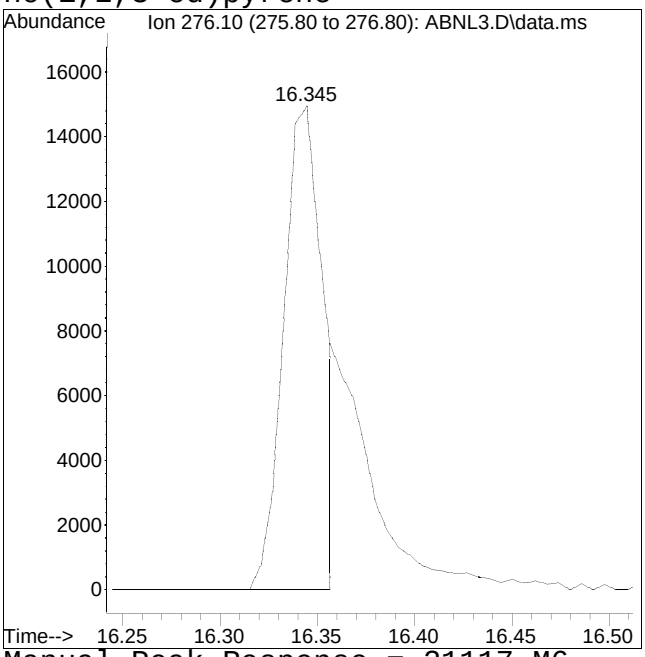
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL3.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:05 pm Instrument : SV107
Sample : IL8,32,,ABNL0.5 Lot# 10697 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 30973



Manual Peak Response = 21117 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	49068	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 94.27%			
34) IS1_Naphthalene-d8	7.957	136	178109	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 93.57%			
62) IS1_Acenaphthene-d10	9.727	164	109346	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 88.20%			
87) IS1_Phenanthrene-d10	11.169	188	231483	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 91.77%			
103) IS1_Chrysene-d12	13.833	240	204856	4.000	ug/ml	# 0.00
Standard Area 1 = 233929			Recovery = 87.57%			
112) IS1_Perylene-d12	15.315	264	219164	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 90.91%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.692	112	2651	0.184	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.20%#			
7) Phenol-d6	6.157	99	3276	0.180	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 9.00%#			
19) Nitrobenzene-d5	7.186	82	2866	0.171	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 17.10%#			
45) 2-Fluorobiphenyl	9.080	172	8144	0.199	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 19.90%#			
78) 2,4,6-Tribromophenol	10.498	330	870	0.213	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 10.65%#			
95) 4-Terphenyl-d14	12.763	244	10521	0.206	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 20.60%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.287	74	1812	0.179	ug/ml#	75
3) Pyridine	2.351	79	3228	0.220	ug/ml#	54
5) Aniline	6.134	93	4255	0.196	ug/ml	99
6) 2-Chlorophenol	6.275	128	3002	0.190	ug/ml	92
8) Phenol	6.175	94	3744	0.188	ug/ml	96
9) Bis(2-chloroethyl)ether	6.257	93	3295	0.200	ug/ml	89
10) 1,3-Dichlorobenzene	6.463	146	3924	0.200	ug/ml	95
11) 1,4-Dichlorobenzene	6.551	146	4199	0.209	ug/ml#	92
12) 1,2-Dichlorobenzene	6.734	146	3740	0.195	ug/ml	98

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.739	79	2486	0.190	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.910	45	4227	0.190	ug/ml#	46
15) 2-Methylphenol	6.904	108	2507	0.180	ug/ml	95
16) Hexachloroethane	7.122	117	1408	0.197	ug/ml#	58
17) n-Nitrosodi-n-propylamine	7.063	70	2185	0.195	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.086	108	2751	0.183	ug/ml#	93
20) Nitrobenzene	7.204	77	2838	0.166	ug/ml#	82
21) Isophorone	7.486	82	5475	0.185	ug/ml	94
22) 2-Nitrophenol	7.563	139	1051	0.149	ug/ml#	81
23) 2,4-Dimethylphenol	7.657	107	2594	0.221	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	3781	0.190	ug/ml#	90
25) 2,4-Dichlorophenol	7.828	162	2571	0.187	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.910	180	3505	0.196	ug/ml	94
35) Naphthalene	7.975	128	9960	0.199	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	1080	0.176	ug/ml#	82
38) Hexachlorobutadiene	8.145	225	2203	0.217	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	2273	0.179	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	6607	0.199	ug/ml	96
41) 1-Methylnaphthalene	8.792	115	2255	0.199	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	1916	0.260	ug/ml#	90
43) 2,4,6-Trichlorophenol	8.992	196	2019	0.201	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	2139	0.197	ug/ml	95
46) 2-Chloronaphthalene	9.175	162	7062	0.212	ug/ml	93
47) 2-Nitroaniline	9.286	138	1109	0.385	ug/ml	94
48) 1,4-Dinitrobenzene	9.422	168	438	0.423	ug/ml	95
49) 1,3-Dinitrobenzene	9.498	168	558	0.117	ug/ml#	1
50) Dimethyl phthalate	9.492	163	7982	0.217	ug/ml#	93
51) Acenaphthylene	9.580	152	10001	0.199	ug/ml	99
52) 2,6-Dinitrotoluene	9.533	165	962	0.247	ug/ml#	85
53) 1,2-Dinitrobenzene	9.580	168	338M3	0.231	ug/ml	
63) 3-Nitroaniline	9.692	138	965	0.117	ug/ml#	88
64) Acenaphthene	9.757	154	6591	0.214	ug/ml	91
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.927	168	10705	0.212	ug/ml	95
67) 2,4-Dinitrotoluene	9.927	165	1137	0.242	ug/ml#	70
68) 4-Nitrophenol	9.880	65	854	0.122	ug/ml	87
69) 2,3,5,6-Tetrachlorophenol	10.022	232	1581	0.183	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70)	2,3,4,6-Tetrachlorophenol	10.063	232	1582	0.180	ug/ml	98
71)	Diethyl phthalate	10.192	149	7230	0.203	ug/ml	96
72)	Fluorene	10.263	166	7825	0.206	ug/ml	92
73)	4-Chlorophenyl phenyl ...	10.280	204	3942	0.201	ug/ml	90
74)	4-Nitroaniline	10.286	138	957	0.115	ug/ml#	86
75)	4,6-Dinitro-o-cresol	10.327	198	265M2	0.425	ug/ml	
76)	NDPA/DPA	10.392	169	6543	0.214	ug/ml	97
77)	Azobenzene	10.427	77	7151	0.199	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.751	248	2311	0.225	ug/ml#	85
80)	Hexachlorobenzene	10.804	284	2664	0.235	ug/ml#	85
81)	Pentachlorophenol	11.004	266	708	0.368	ug/ml	92
88)	Phenanthrene	11.192	178	13197	0.205	ug/ml	97
89)	Anthracene	11.239	178	12757	0.210	ug/ml	99
90)	Carbazole	11.410	167	10959	0.199	ug/ml	99
91)	Di-n-butylphthalate	11.798	149	10896	0.186	ug/ml	99
92)	Fluoranthene	12.351	202	14995	0.217	ug/ml#	90
93)	Benzidine	12.504	184	5328	0.143	ug/ml#	84
94)	Pyrene	12.574	202	15788	0.211	ug/ml	99
96)	Butyl benzyl phthalate	13.292	149	3375	0.486	ug/ml	95
104)	Benzo(a)anthracene	13.827	228	14868	0.215	ug/ml	96
105)	3,3'-Dichlorobenzidine	13.821	252	3454	0.166	ug/ml#	96
106)	Chrysene	13.862	228	15148	0.218	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.939	149	4794	0.277	ug/ml#	94
108)	Di-n-octylphthalate	14.621	149	6797	0.436	ug/ml#	86
109)	Benzo(b)fluoranthene	14.939	252	12507	0.209	ug/ml#	94
110)	Benzo(k)fluoranthene	14.968	252	12503	0.202	ug/ml#	95
111)	Benzo(a)pyrene	15.262	252	10380	0.193	ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	16.339	276	8551M6	0.166	ug/mL	
114)	Dibenzo(a,h)anthracene	16.362	278	9182	0.170	ug/ml#	88
115)	Benzo(ghi)perylene	16.603	276	10140	0.187	ug/ml#	86

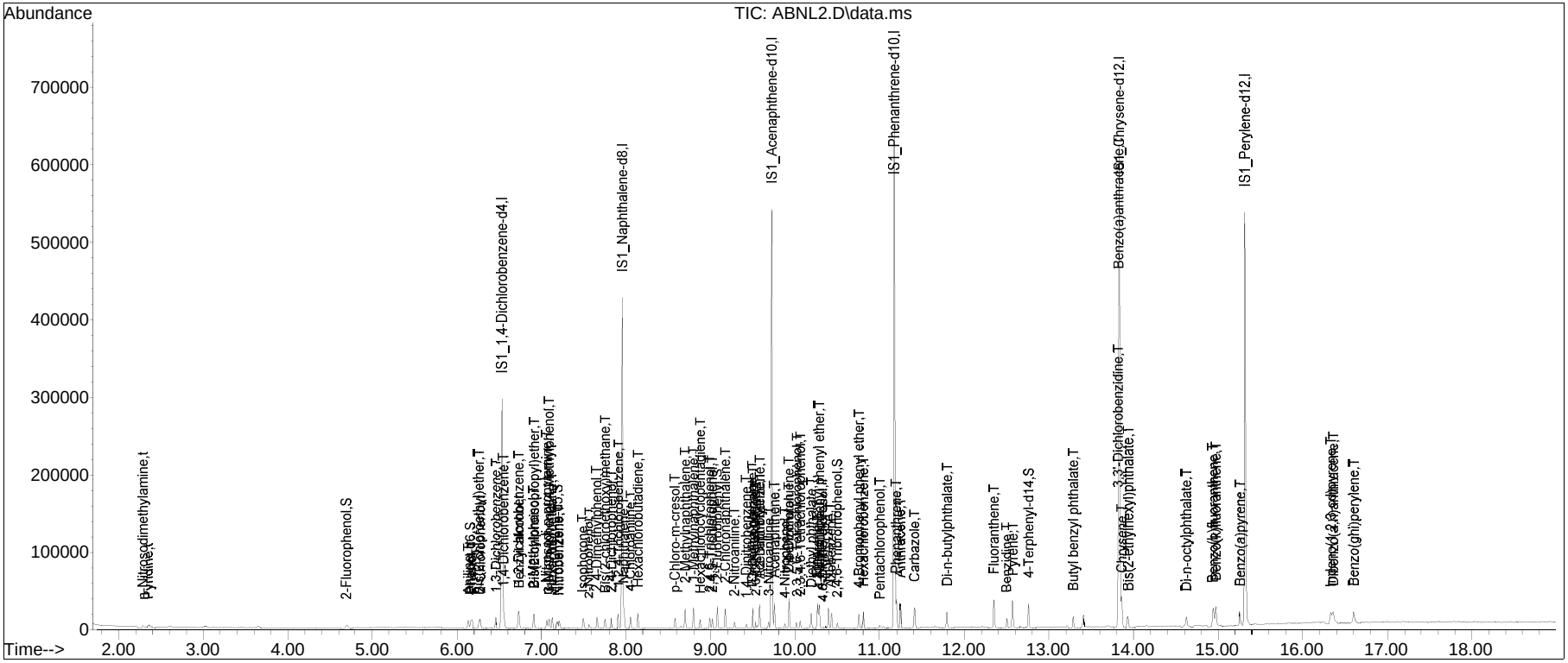
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL2.D
Acq On : 2 Jun 2024 10:30 pm
Operator : SV107:jg
Sample : IL9,32,,ABNL0.2 Lot# 10698
Misc : WG1929644,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:53:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

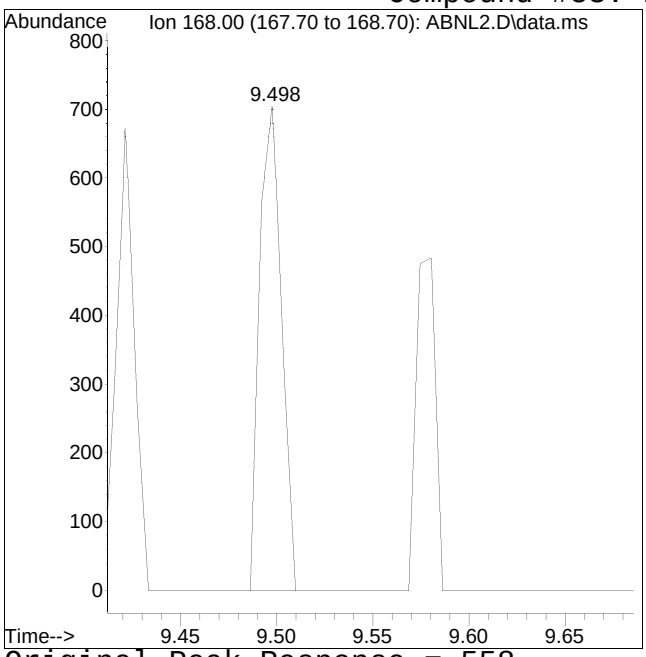
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

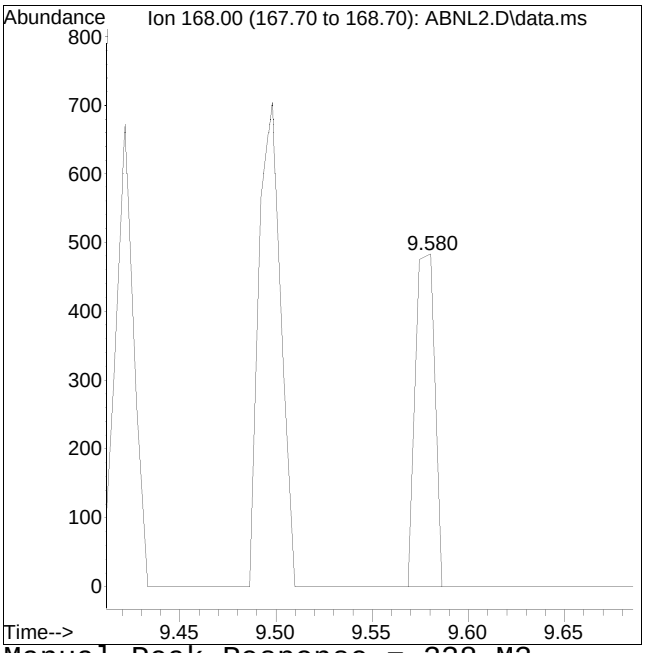


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #53: 1,2-Dinitrobenzene





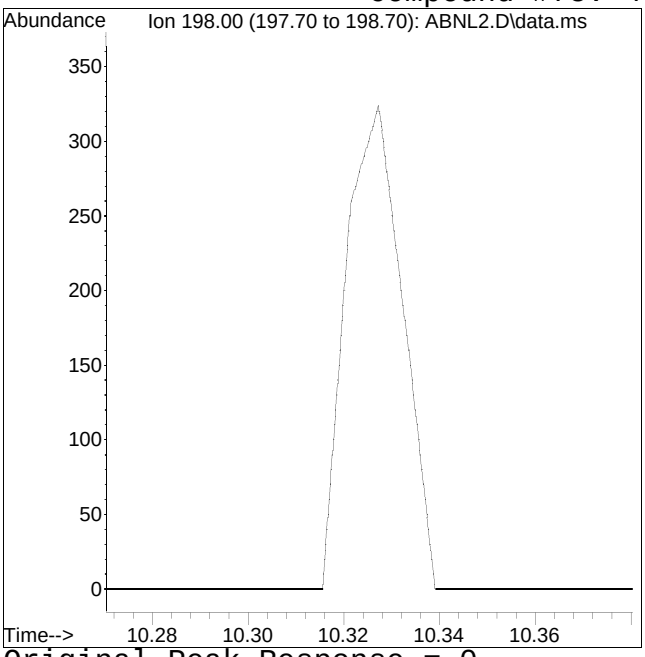
Original Peak Response = 558 Manual Peak Response = 338 M3

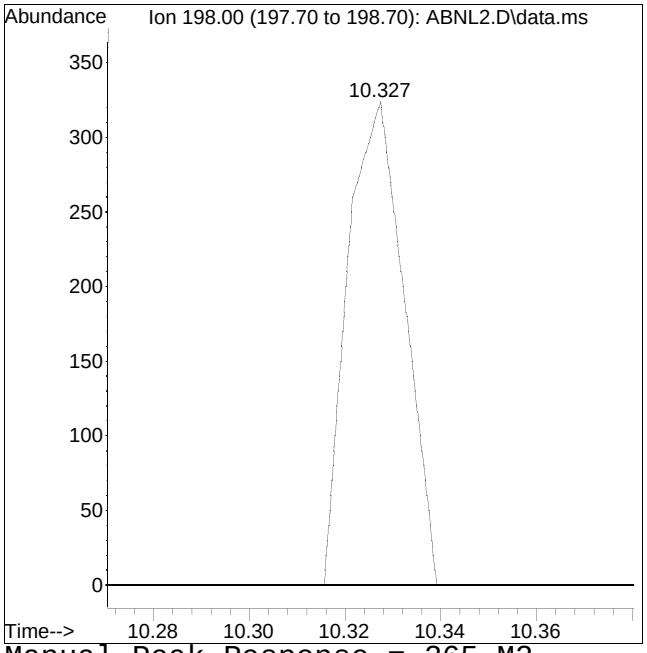
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #75: 4,6-Dinitro-o-cresol



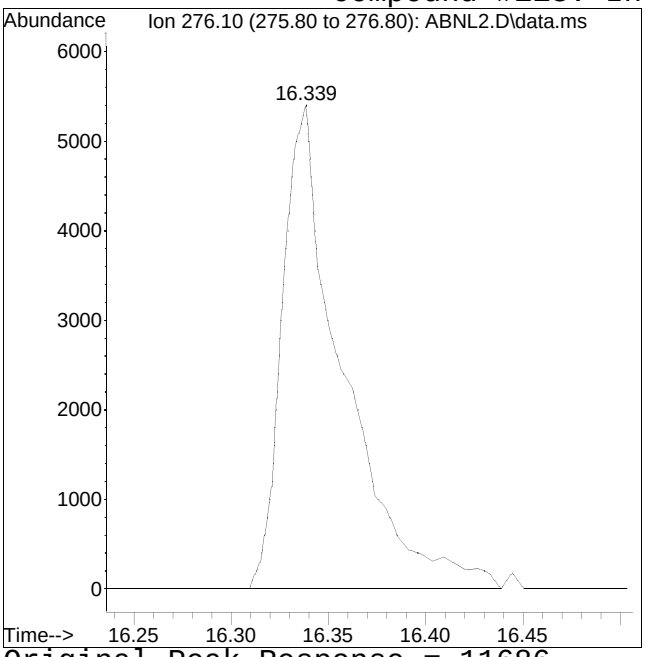


Original Peak Response = 0 Manual Peak Response = 265 M2
M2 = Peak not found by automatic integration algorithm.

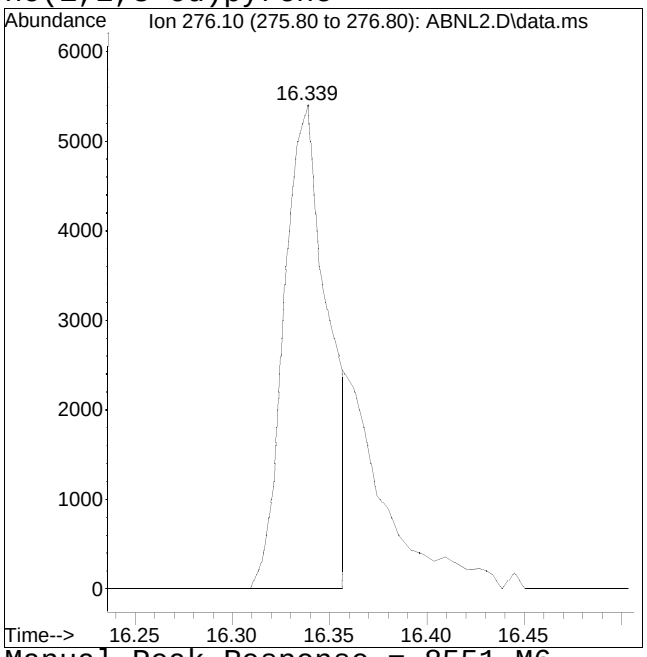
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL2.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:30 pm Instrument : SV107
Sample : IL9,32,,ABNL0.2 Lot# 10698 Quant Date : 6/3/2024 10:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 11686



Manual Peak Response = 8551 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.534	152	50386	4.000 ug/ml	0.00
Standard Area 1 = 52051			Recovery = 96.80%		
34) IS1_Naphthalene-d8	7.957	136	184640	4.000 ug/ml	0.00
Standard Area 1 = 190351			Recovery = 97.00%		
62) IS1_Acenaphthene-d10	9.728	164	112329	4.000 ug/ml	0.00
Standard Area 1 = 123969			Recovery = 90.61%		
87) IS1_Phenanthrene-d10	11.174	188	235335	4.000 ug/ml	0.00
Standard Area 1 = 252252			Recovery = 93.29%		
103) IS1_Chrysene-d12	13.833	240	210802	4.000 ug/ml #	0.00
Standard Area 1 = 233929			Recovery = 90.11%		
112) IS1_Perylene-d12	15.315	264	224865	4.000 ug/ml	0.00
Standard Area 1 = 241074			Recovery = 93.28%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.693	112	1303	0.088 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.40%#		
7) Phenol-d6	6.157	99	1610	0.086 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.30%#		
19) Nitrobenzene-d5	7.186	82	1368	0.080 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 8.00%#		
45) 2-Fluorobiphenyl	9.081	172	4156	0.098 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 9.80%#		
78) 2,4,6-Tribromophenol	10.498	330	287M2	0.068 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3.40%#		
95) 4-Terphenyl-d14	12.763	244	5373	0.104 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 10.40%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.281	74	830	0.080 ug/ml#	68
3) Pyridine	2.357	79	1275	0.084 ug/ml#	49
5) Aniline	6.128	93	2125	0.095 ug/ml	96
6) 2-Chlorophenol	6.275	128	1485	0.092 ug/ml#	72
8) Phenol	6.175	94	1771	0.087 ug/ml	96
9) Bis(2-chloroethyl)ether	6.257	93	1574	0.093 ug/ml#	82
10) 1,3-Dichlorobenzene	6.457	146	1915	0.095 ug/ml	99
11) 1,4-Dichlorobenzene	6.551	146	1913	0.093 ug/ml#	73

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
12) 1,2-Dichlorobenzene	6.728	146	1919	0.098	ug/ml	92
13) Benzyl alcohol	6.739	79	1238	0.092	ug/ml	90
14) Bis(2-chloroisopropyl)...	6.910	45	2141	0.094	ug/ml#	36
15) 2-Methylphenol	6.904	108	1278	0.089	ug/ml#	84
16) Hexachloroethane	7.122	117	711	0.097	ug/ml#	74
17) n-Nitrosodi-n-propylamine	7.063	70	1152	0.100	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.087	108	1197	0.077	ug/ml#	83
20) Nitrobenzene	7.204	77	1429	0.081	ug/ml#	79
21) Isophorone	7.492	82	2720	0.090	ug/ml#	90
22) 2-Nitrophenol	7.563	139	373M2	0.052	ug/ml	
23) 2,4-Dimethylphenol	7.663	107	1321	0.110	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.751	93	1937	0.095	ug/ml#	89
25) 2,4-Dichlorophenol	7.828	162	1209	0.086	ug/ml#	70
26) 1,2,4-Trichlorobenzene	7.910	180	1745	0.095	ug/ml	95
35) Naphthalene	7.975	128	5001	0.097	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	8.057	65	594	0.094	ug/ml	96
38) Hexachlorobutadiene	8.145	225	990	0.094	ug/ml	95
39) p-Chloro-m-cresol	8.586	107	1150	0.087	ug/ml#	84
40) 2-Methylnaphthalene	8.698	142	3208	0.093	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	1117	0.095	ug/ml	96
42) Hexachlorocyclopentadiene	8.875	237	836	0.110	ug/ml#	85
43) 2,4,6-Trichlorophenol	8.998	196	870	0.084	ug/ml#	84
44) 2,4,5-Trichlorophenol	9.028	196	1016	0.090	ug/ml#	73
46) 2-Chloronaphthalene	9.175	162	3292	0.095	ug/ml	97
47) 2-Nitroaniline	9.292	138	531	0.326	ug/ml	95
48) 1,4-Dinitrobenzene	9.422	168	167M2	0.367	ug/ml	
49) 1,3-Dinitrobenzene	9.498	168	263M2	0.053	ug/ml	
50) Dimethyl phthalate	9.492	163	3817	0.100	ug/ml#	77
51) Acenaphthylene	9.580	152	4775	0.092	ug/ml	97
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
53) 1,2-Dinitrobenzene	9.575	168	141M2	0.172	ug/ml	
63) 3-Nitroaniline	9.692	138	431	0.051	ug/ml#	95
64) Acenaphthene	9.757	154	3186	0.101	ug/ml	93
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.928	168	5287	0.102	ug/ml	92
67) 2,4-Dinitrotoluene	9.928	165	435	0.178	ug/ml#	50
68) 4-Nitrophenol	9.880	65	315M2	0.044	ug/ml	

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
69)	2,3,5,6-Tetrachlorophenol	10.022	232	621	0.070 ug/ml#	64
70)	2,3,4,6-Tetrachlorophenol	10.063	232	710	0.079 ug/ml#	70
71)	Diethyl phthalate	10.192	149	3751	0.103 ug/ml	95
72)	Fluorene	10.263	166	3853	0.099 ug/ml	93
73)	4-Chlorophenyl phenyl ...	10.280	204	2036	0.101 ug/ml#	85
74)	4-Nitroaniline	10.286	138	419	0.049 ug/ml#	69
75)	4,6-Dinitro-o-cresol	0.000		0	N.D.	
76)	NDPA/DPA	10.398	169	3096	0.099 ug/ml	91
77)	Azobenzene	10.433	77	3541	0.096 ug/ml	99
79)	4-Bromophenyl phenyl e...	10.757	248	1144	0.108 ug/ml#	88
80)	Hexachlorobenzene	10.810	284	1376	0.118 ug/ml#	64
81)	Pentachlorophenol	11.004	266	149M2	0.290 ug/ml	
88)	Phenanthrene	11.192	178	6475	0.099 ug/ml	98
89)	Anthracene	11.245	178	6079	0.098 ug/ml	99
90)	Carbazole	11.410	167	5031	0.090 ug/ml	98
91)	Di-n-butylphthalate	11.798	149	5415	0.091 ug/ml#	92
92)	Fluoranthene	12.357	202	7036	0.100 ug/ml#	93
93)	Benzidine	12.504	184	2270	0.060 ug/ml#	68
94)	Pyrene	12.574	202	7718	0.101 ug/ml	98
96)	Butyl benzyl phthalate	13.292	149	1667	0.424 ug/ml#	93
104)	Benzo(a)anthracene	13.827	228	7685	0.108 ug/ml	98
105)	3,3'-Dichlorobenzidine	13.821	252	1677	0.078 ug/ml#	87
106)	Chrysene	13.863	228	7226	0.101 ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.939	149	2517	0.211 ug/ml#	90
108)	Di-n-octylphthalate	14.621	149	3310	0.373 ug/ml#	87
109)	Benzo(b)fluoranthene	14.939	252	5782	0.094 ug/ml#	88
110)	Benzo(k)fluoranthene	14.968	252	5672	0.089 ug/ml#	89
111)	Benzo(a)pyrene	15.262	252	4646	0.084 ug/ml#	92
113)	Indeno(1,2,3-cd)pyrene	16.333	276	3420M6	0.065 ug/mL	
114)	Dibenzo(a,h)anthracene	16.356	278	3966	0.071 ug/ml#	86
115)	Benzo(ghi)perylene	16.598	276	4504	0.081 ug/ml#	88

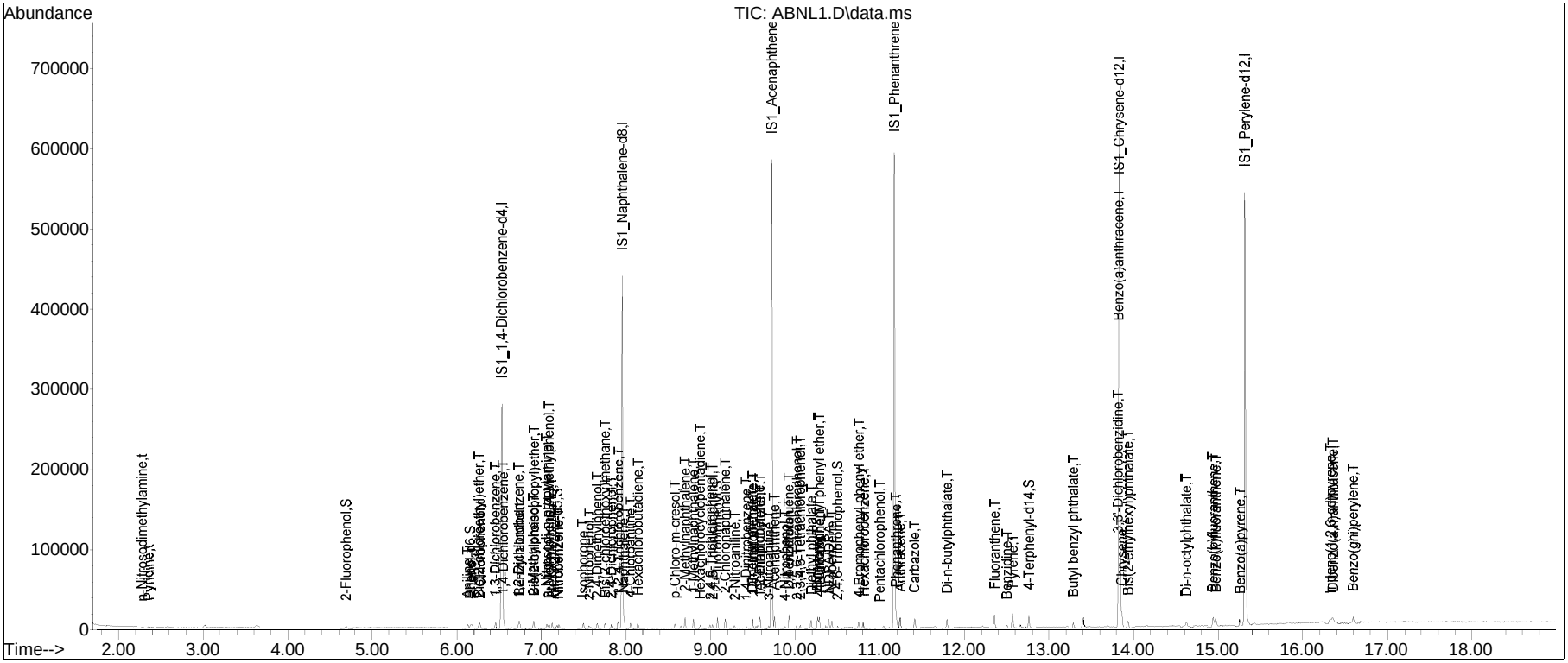
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNL1.D
Acq On : 2 Jun 2024 10:56 pm
Operator : SV107:jg
Sample : IL10,32,,ABNL0.1 Lot# 10699
Misc : WG1929644,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 10:52:14 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

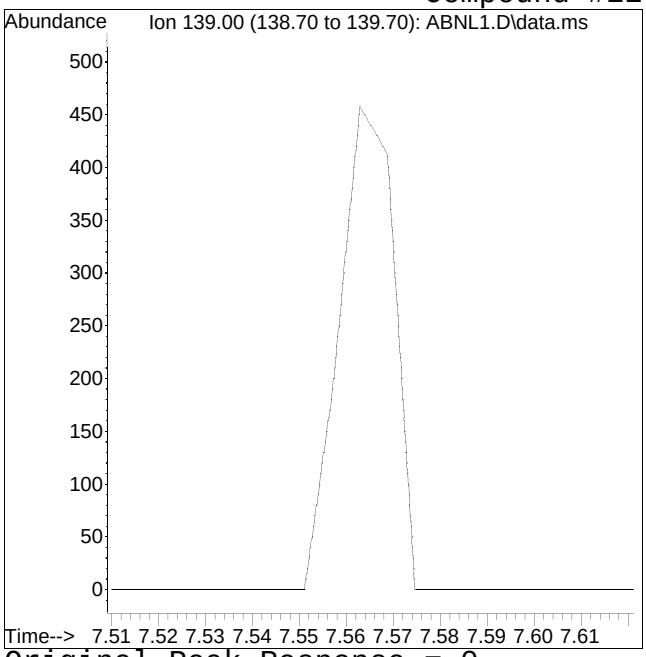
Sub List : ABNical - ABN ical sublistal\AP9L6.D•



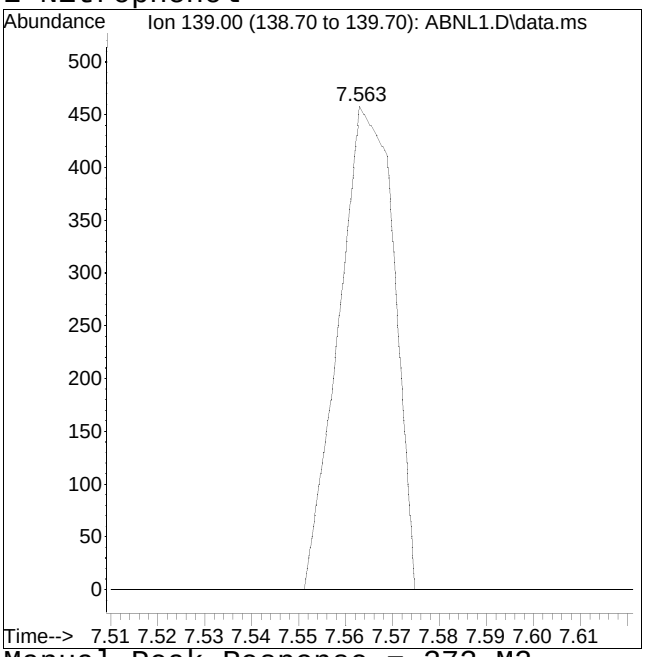
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #22: 2-Nitrophenol



Original Peak Response = 0



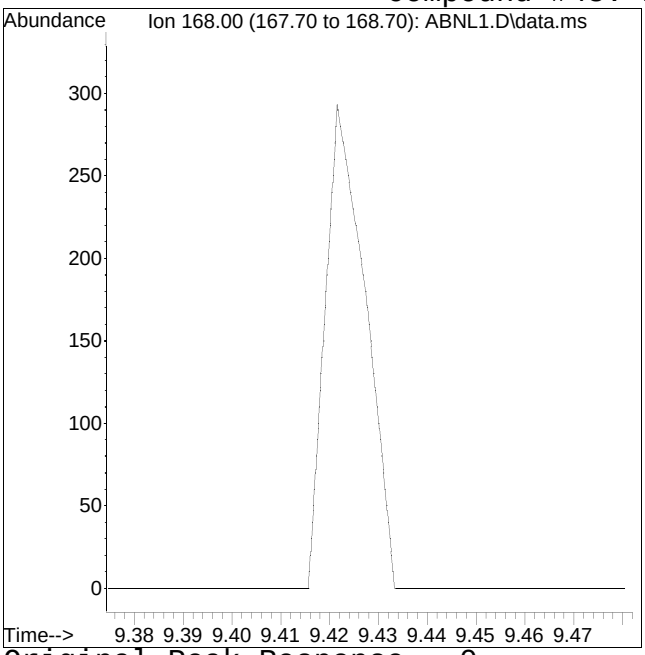
Manual Peak Response = 373 M2

M2 = Peak not found by automatic integration algorithm.

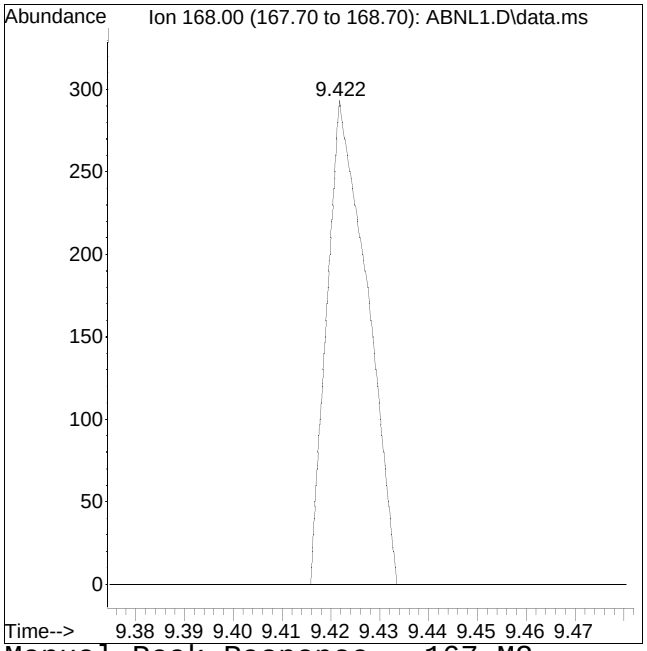
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #48: 1,4-Dinitrobenzene



Original Peak Response = 0



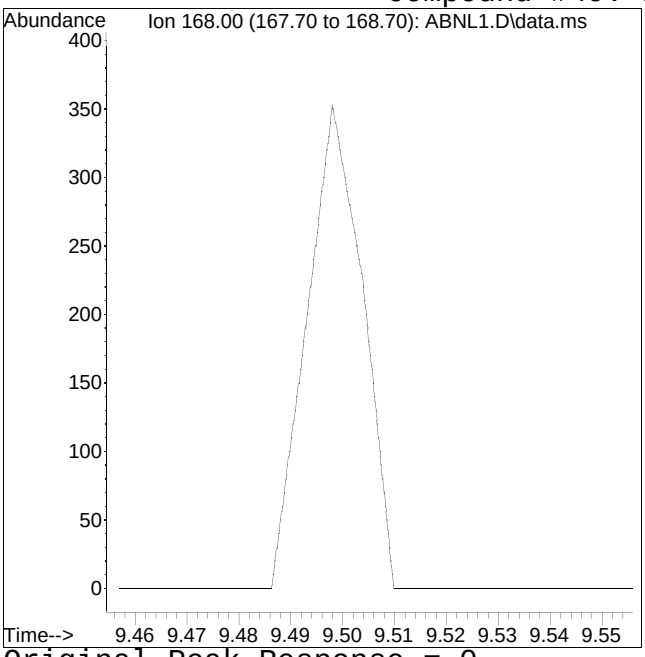
Manual Peak Response = 167 M2

M2 = Peak not found by automatic integration algorithm.

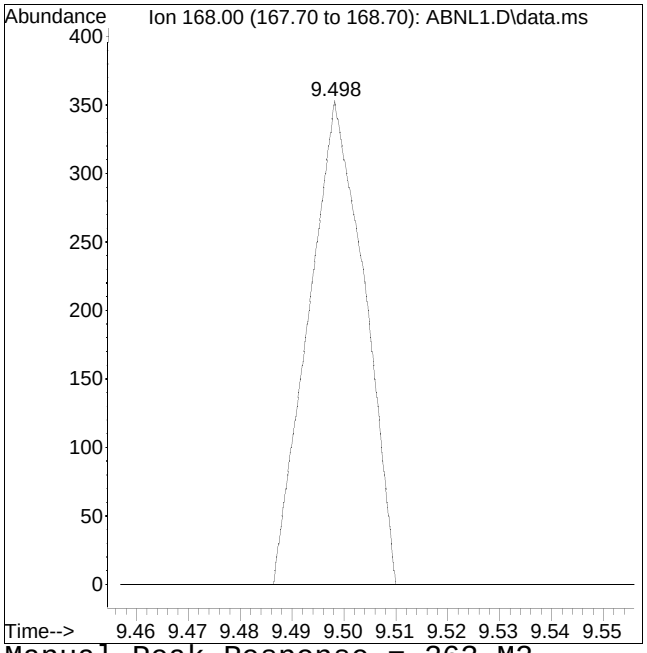
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #49: 1,3-Dinitrobenzene



Original Peak Response = 0



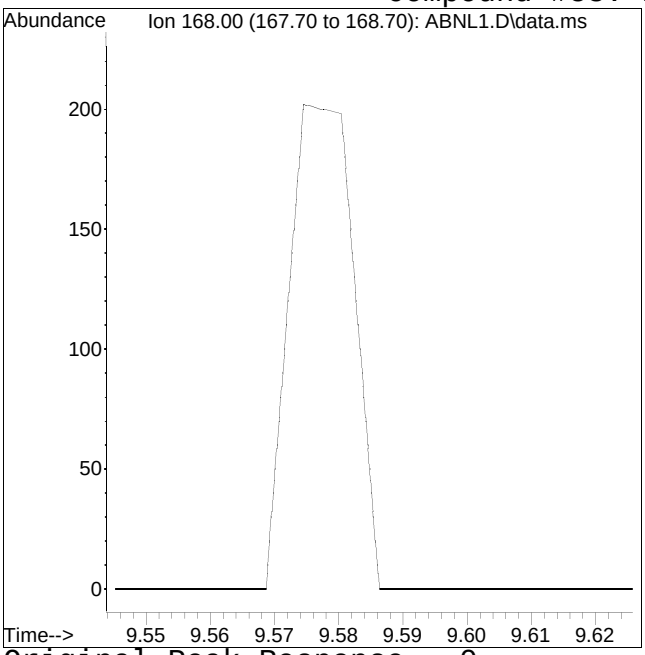
Manual Peak Response = 263 M2

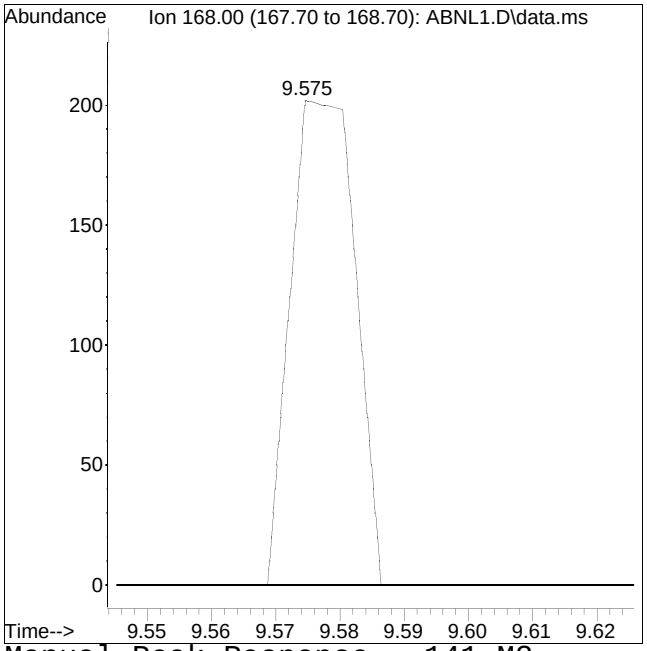
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #53: 1,2-Dinitrobenzene



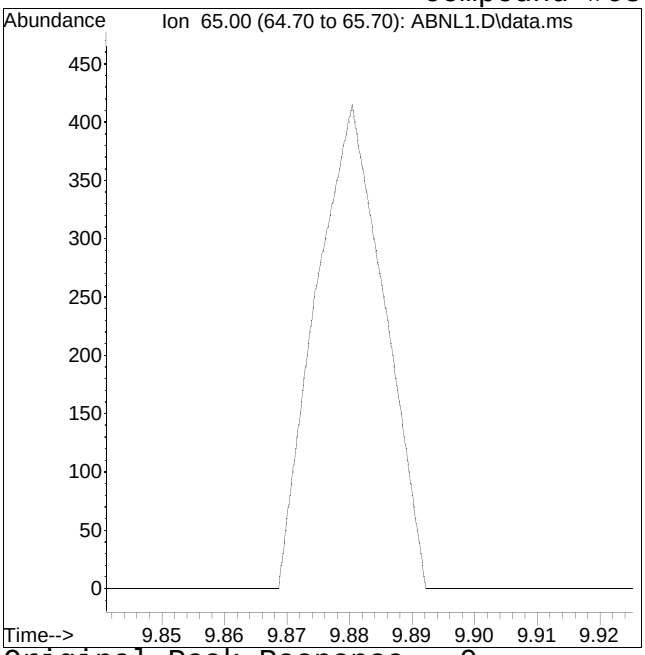


Original Peak Response = 0 Manual Peak Response = 141 M2
M2 = Peak not found by automatic integration algorithm.

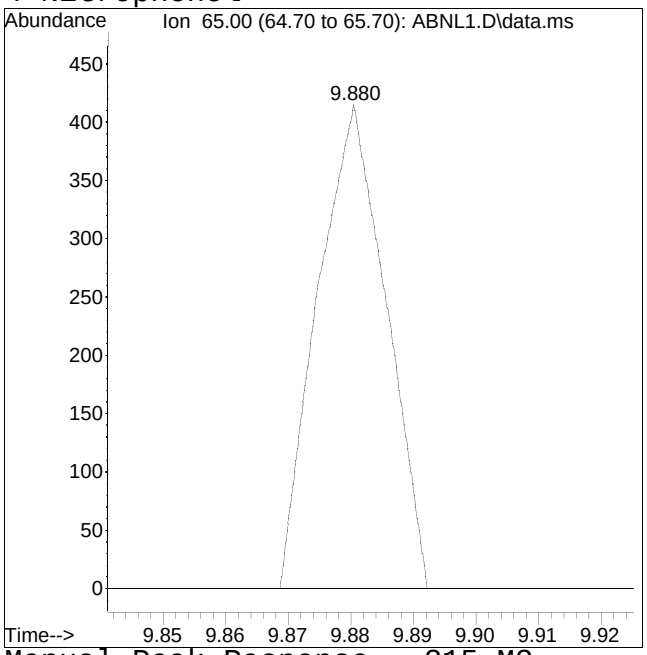
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #68: 4-Nitrophenol



Original Peak Response = 0



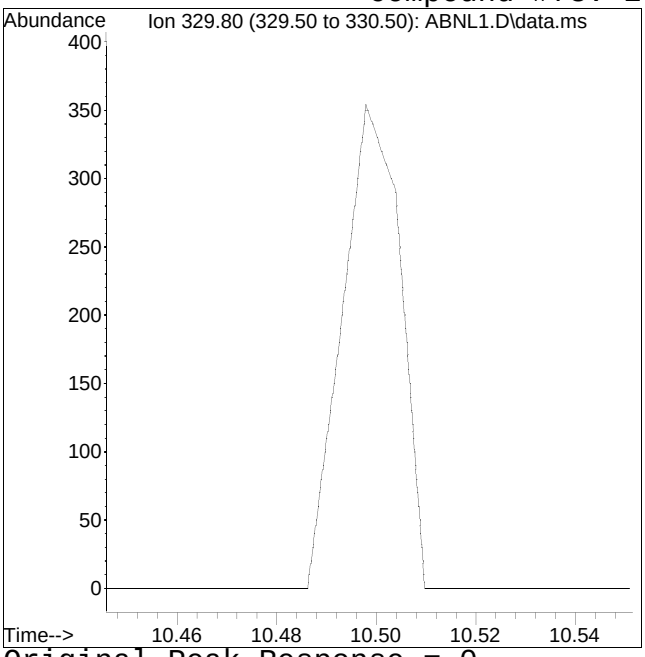
Manual Peak Response = 315 M2

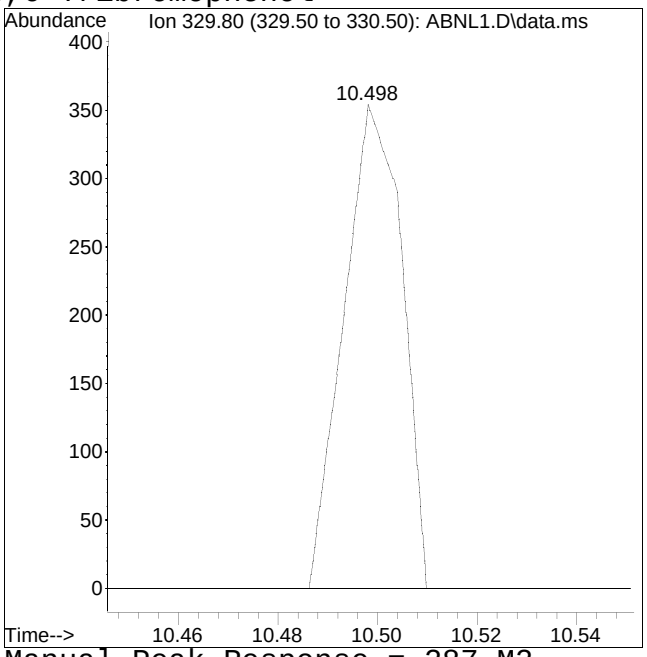
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #78: 2,4,6-Tribromophenol



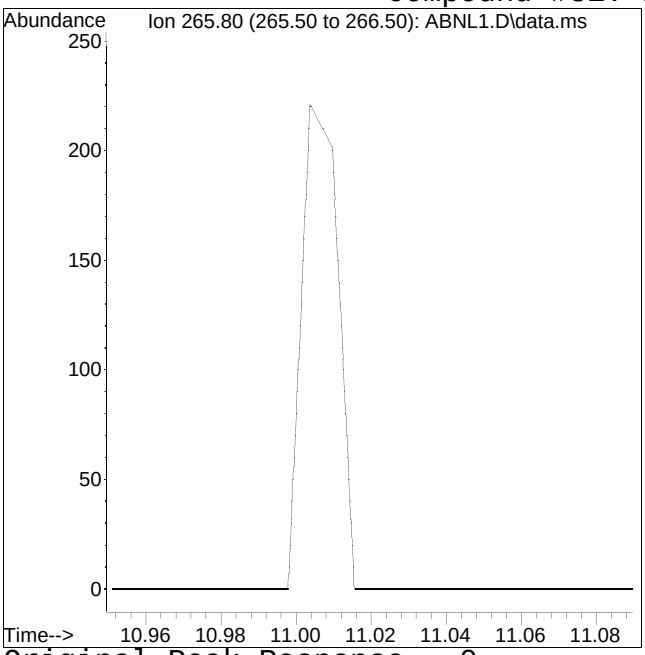


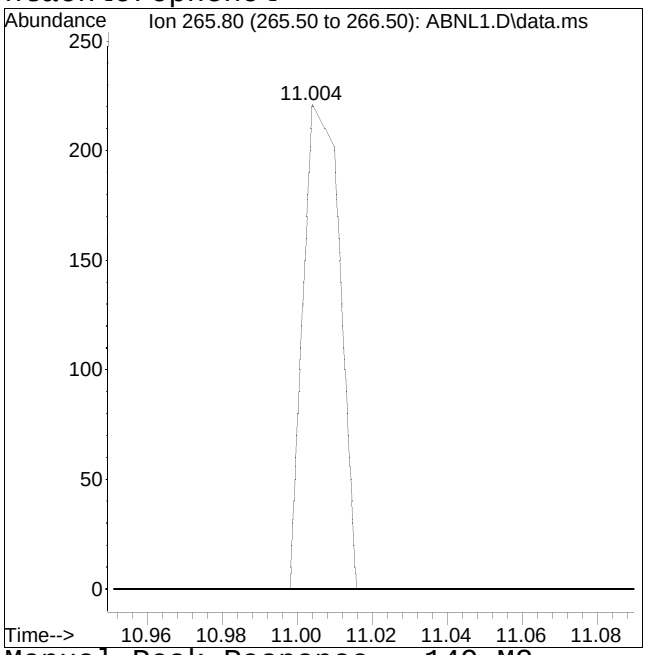
Original Peak Response = 0 Manual Peak Response = 287 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #81: Pentachlorophenol



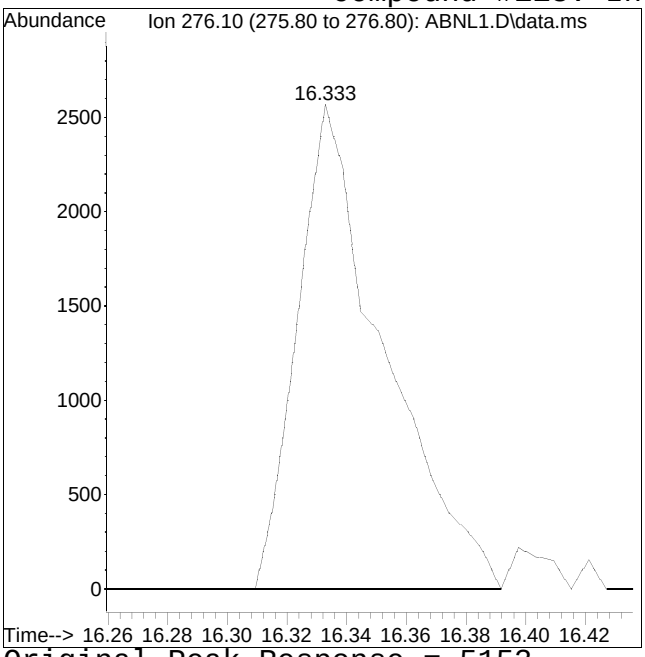


Original Peak Response = 0 Manual Peak Response = 149 M2
M2 = Peak not found by automatic integration algorithm.

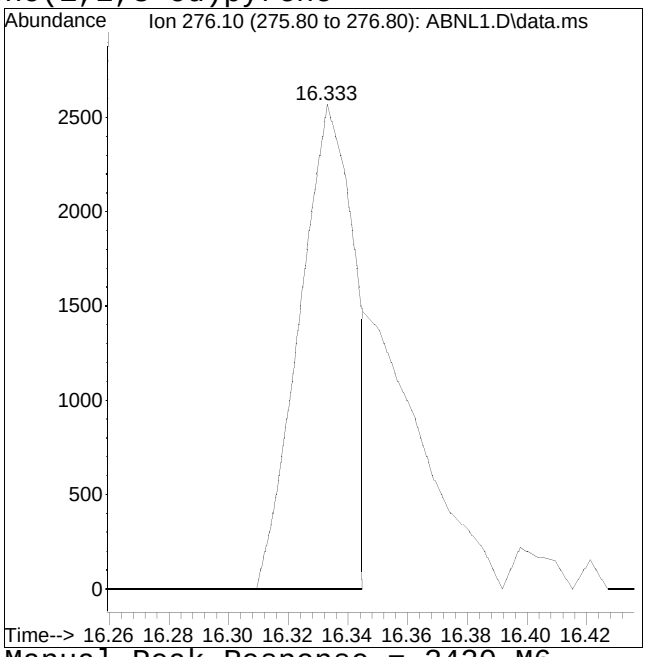
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNL1.D Operator : SV107:jg
Date Inj'd : 6/2/2024 10:56 pm Instrument : SV107
Sample : IL10,32,,ABNL0.1 Lot# 1069 Quant Date : 6/3/2024 10:21 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 5153



Manual Peak Response = 3420 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	45858	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery =	103.27%			
54) IS2_Naphthalene-d8	7.957	136	172977	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery =	102.00%			
82) IS2_Acenaphthene-d10	9.728	164	104823	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery =	104.98%			
97) IS2_Phenanthrene-d10	11.169	188	219861	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery =	102.28%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	618134	54.604	ug/ml		98
29) Acetophenone	7.028	105	1117327	58.154	ug/ml	#	82
30) m-Toluidine	7.128	106	1090647	57.246	ug/ml		95
31) 2-Chloroaniline	7.528	127	980664	57.446	ug/ml	#	94
55) a-Terpineol	8.034	59	670711	61.601	ug/ml	#	76
56) 3-Chloroaniline	8.039	65	344222	52.490	ug/ml		93
57) 2,6-Dichlorophenol	8.075	162	742012	64.537	ug/ml	#	86
58) 1-chloro-2-nitrobenzene	8.339	111	317541	61.890	ug/ml	#	1
59) Caprolactam	8.404	55	360505M3	53.080	ug/ml		
60) 1,2,4,5-Tetrachloroben...	8.875	216	906675	52.212	ug/ml		97
61) Biphenyl	9.175	154	2123620	54.675	ug/ml		98
83) Dichloran	10.869	206	258446	52.858	ug/ml	#	69
84) Pentachloronitrobenzene	11.022	237	253718	57.643	ug/ml	#	83
98) Diphenamid	12.080	167	1514426	74.549	ug/ml	#	81

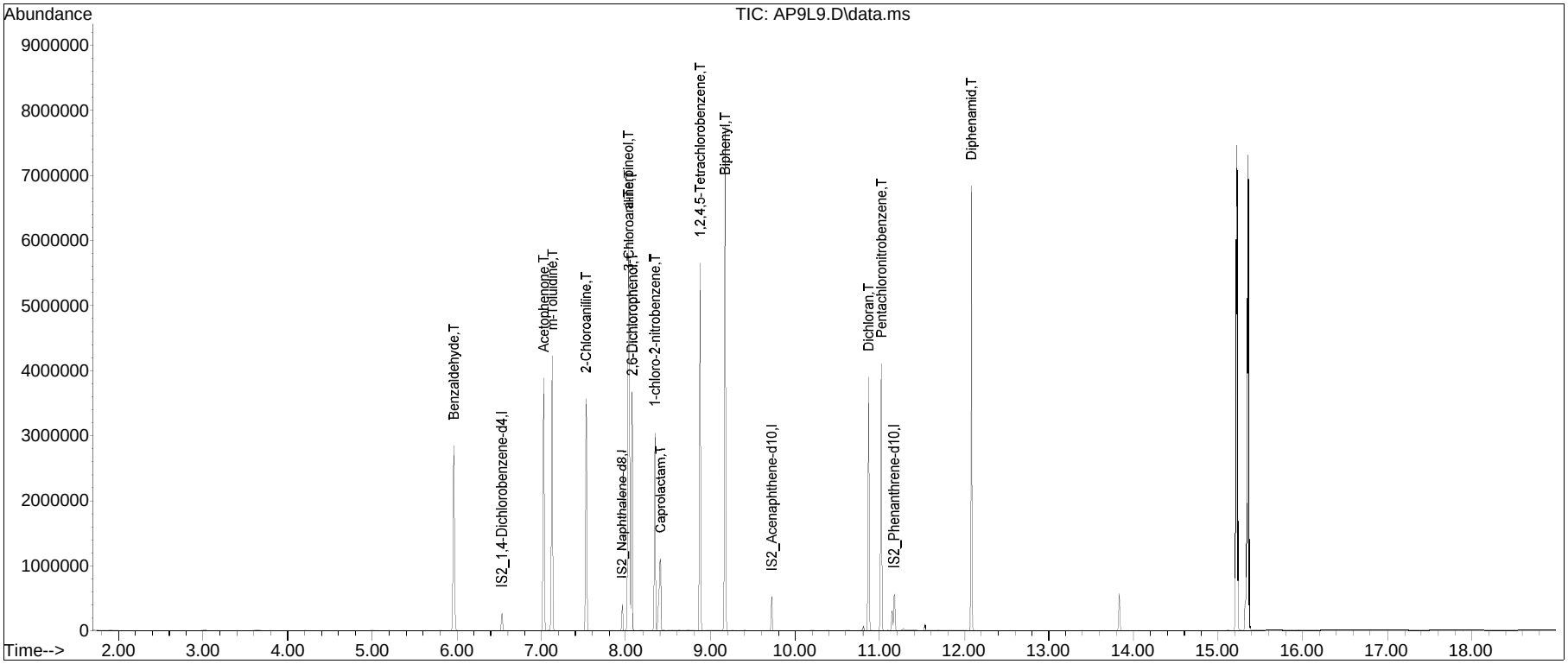
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L9.D
Acq On : 2 Jun 2024 11:21 pm
Operator : SV107:jg
Sample : IL2,32,,AP9L50 Lot# 10700
Misc : WG1929644,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 16:11:45 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

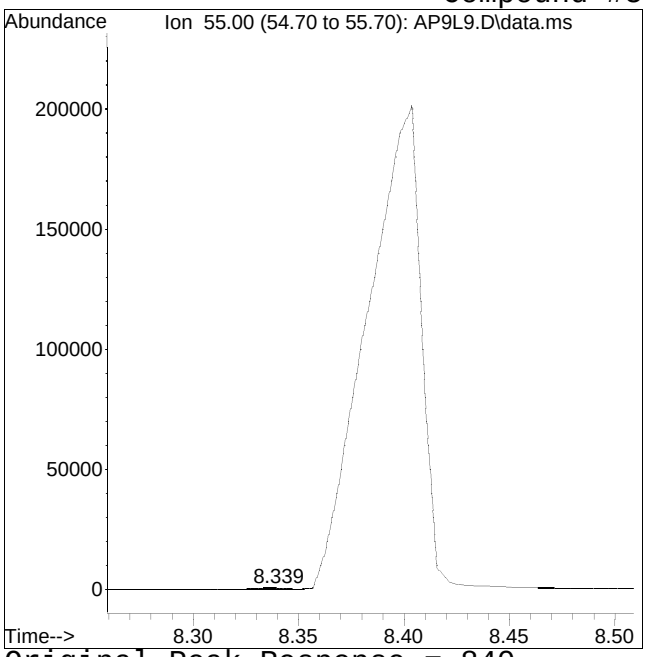
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

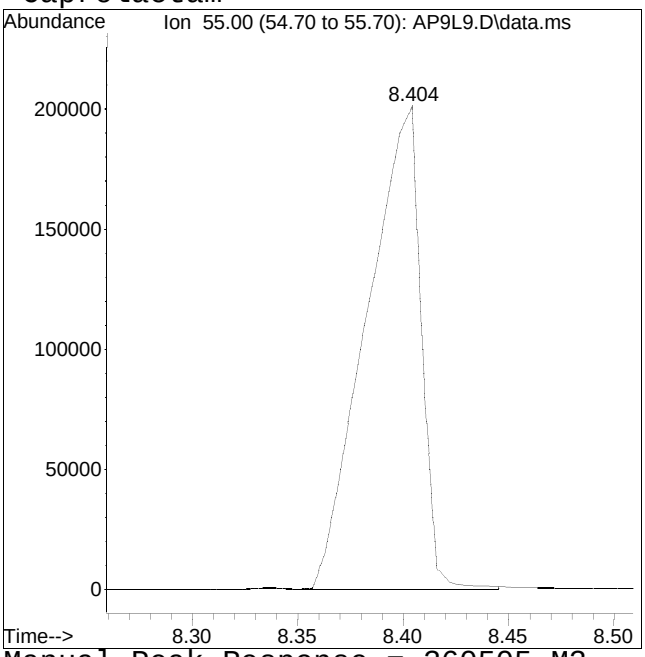


Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L9.D Operator : SV107:jg
Date Inj'd : 6/2/2024 11:21 pm Instrument : SV107
Sample : IL2,32,,AP9L50 Lot# 10700 Quant Date : 6/3/2024 10:24 am

Compound #59: Caprolactam





Original Peak Response = 840 Manual Peak Response = 360505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	51703	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	116.43%		
54) IS2_Naphthalene-d8	7.957	136	192684	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	113.62%		
82) IS2_Acenaphthene-d10	9.727	164	119026	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	119.21%		
97) IS2_Phenanthrene-d10	11.169	188	250969	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	116.75%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	330697	25.910	ug/ml	98
29) Acetophenone	7.028	105	594302	27.435	ug/ml#	83
30) m-Toluidine	7.122	106	591629	27.543	ug/ml	95
31) 2-Chloroaniline	7.528	127	522346	27.139	ug/ml	94
55) a-Terpineol	8.028	59	360696	29.740	ug/ml#	78
56) 3-Chloroaniline	8.039	65	188453	25.798	ug/ml	91
57) 2,6-Dichlorophenol	8.069	162	398570	31.121	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.333	111	170632	29.855	ug/ml#	1
59) Caprolactam	8.386	55	201135	26.902	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	8.875	216	493850	25.530	ug/ml	97
61) Biphenyl	9.175	154	1167371	26.981	ug/ml	99
83) Dichloran	10.869	206	134106	27.858	ug/ml#	69
84) Pentachloronitrobenzene	11.016	237	134633	27.285	ug/ml#	83
98) Diphenamid	12.080	167	810689	34.960	ug/ml#	81

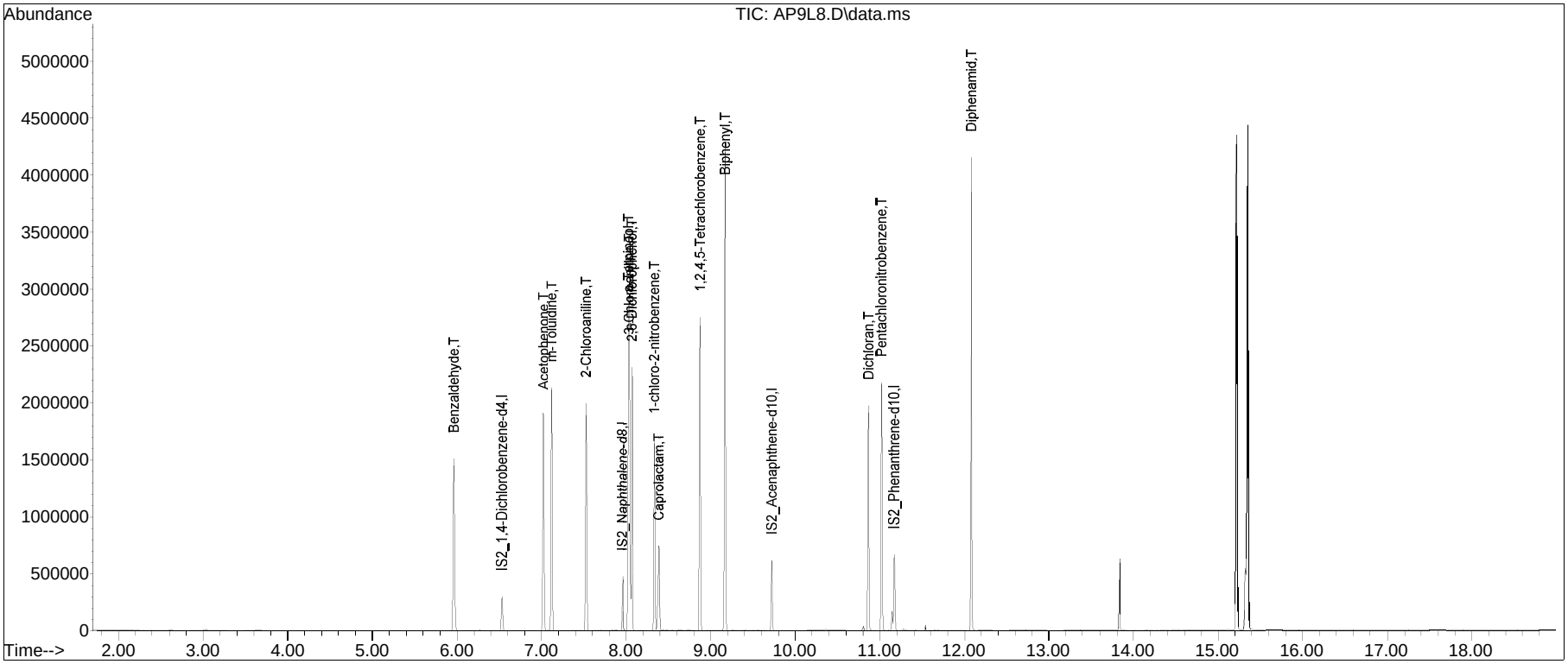
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L8.D
Acq On : 2 Jun 2024 11:47 pm
Operator : SV107:jg
Sample : IL3,32,,AP9L25 Lot# 10701
Misc : WG1929644,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 16:11:04 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L8.D	Operator	: SV107:jg
Date Inj'd	: 6/2/2024 11:47 pm	Instrument	: SV107
Sample	: IL3,32,,AP9L25 Lot# 10701	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.533	152	48096	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	108.31%		
54) IS2_Naphthalene-d8	7.957	136	179982	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	106.13%		
82) IS2_Acenaphthene-d10	9.727	164	110207	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	110.37%		
97) IS2_Phenanthrene-d10	11.168	188	230804	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery =	107.37%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.963	105	123578	10.408	ug/ml	99
29) Acetophenone	7.022	105	219138	10.875	ug/ml#	83
30) m-Toluidine	7.122	106	212267	10.623	ug/ml	95
31) 2-Chloroaniline	7.528	127	192499	10.752	ug/ml#	93
55) a-Terpineol	8.027	59	128933	11.381	ug/ml#	76
56) 3-Chloroaniline	8.039	65	68122	9.984	ug/ml	91
57) 2,6-Dichlorophenol	8.069	162	142626	11.922	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.333	111	59869	11.214	ug/ml#	1
59) Caprolactam	8.375	55	72277	10.740	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	8.874	216	178600	9.885	ug/ml	97
61) Biphenyl	9.174	154	412907	10.217	ug/ml	99
83) Dichloran	10.863	206	40375	10.432	ug/ml#	74
84) Pentachloronitrobenzene	11.016	237	44261	10.108	ug/ml#	83
98) Diphenamid	12.080	167	288397	13.523	ug/ml	82

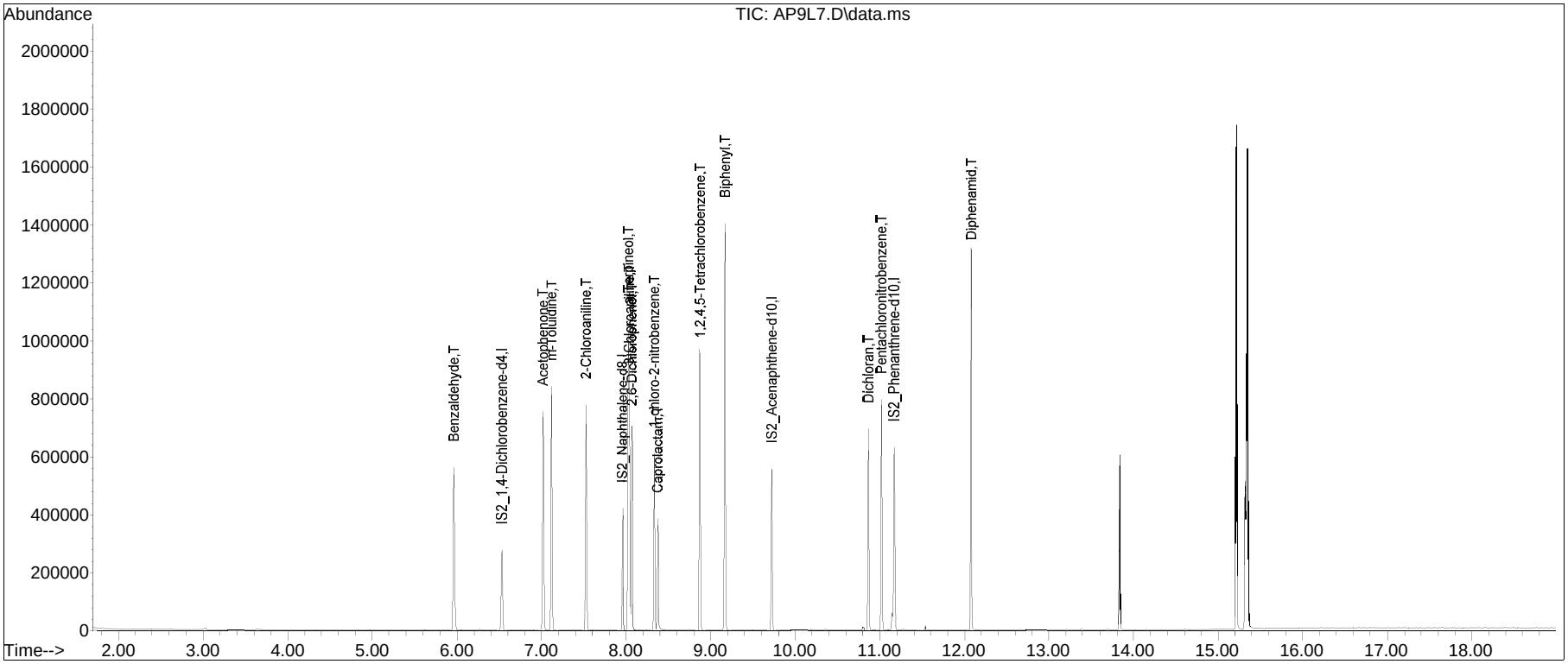
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L7.D
Acq On : 3 Jun 2024 12:12 am
Operator : SV107:jg
Sample : IL4,32,,AP9L10 Lot# 10702
Misc : WG1929644,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 16:10:43 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:12 am	Instrument	: SV107
Sample	: IL4,32,,AP9L10 Lot# 10702	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	44406	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 100.00%				
54) IS2_Naphthalene-d8	7.957	136	169580	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 100.00%				
82) IS2_Acenaphthene-d10	9.728	164	99848	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 100.00%				
97) IS2_Phenanthrene-d10	11.169	188	214959	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 100.00%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	53347	4.867	ug/ml		98
29) Acetophenone	7.022	105	94421	5.075	ug/ml	#	82
30) m-Toluidine	7.122	106	90846	4.924	ug/ml		94
31) 2-Chloroaniline	7.528	127	83530	5.053	ug/ml	#	94
55) a-Terpineol	8.022	59	54760	5.130	ug/ml	#	77
56) 3-Chloroaniline	8.034	65	29581	4.601	ug/ml		89
57) 2,6-Dichlorophenol	8.063	162	59495	5.278	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.334	111	23611	4.694	ug/ml	#	1
59) Caprolactam	8.369	55	30038	5.091	ug/ml	#	71
60) 1,2,4,5-Tetrachloroben...	8.869	216	78097	4.587	ug/ml		97
61) Biphenyl	9.175	154	181083	4.756	ug/ml		99
83) Dichloran	10.863	206	14102	4.535	ug/ml	#	80
84) Pentachloronitrobenzene	11.016	237	16652	4.578	ug/ml	#	83
98) Diphenamid	12.074	167	116240	5.852	ug/ml	#	81

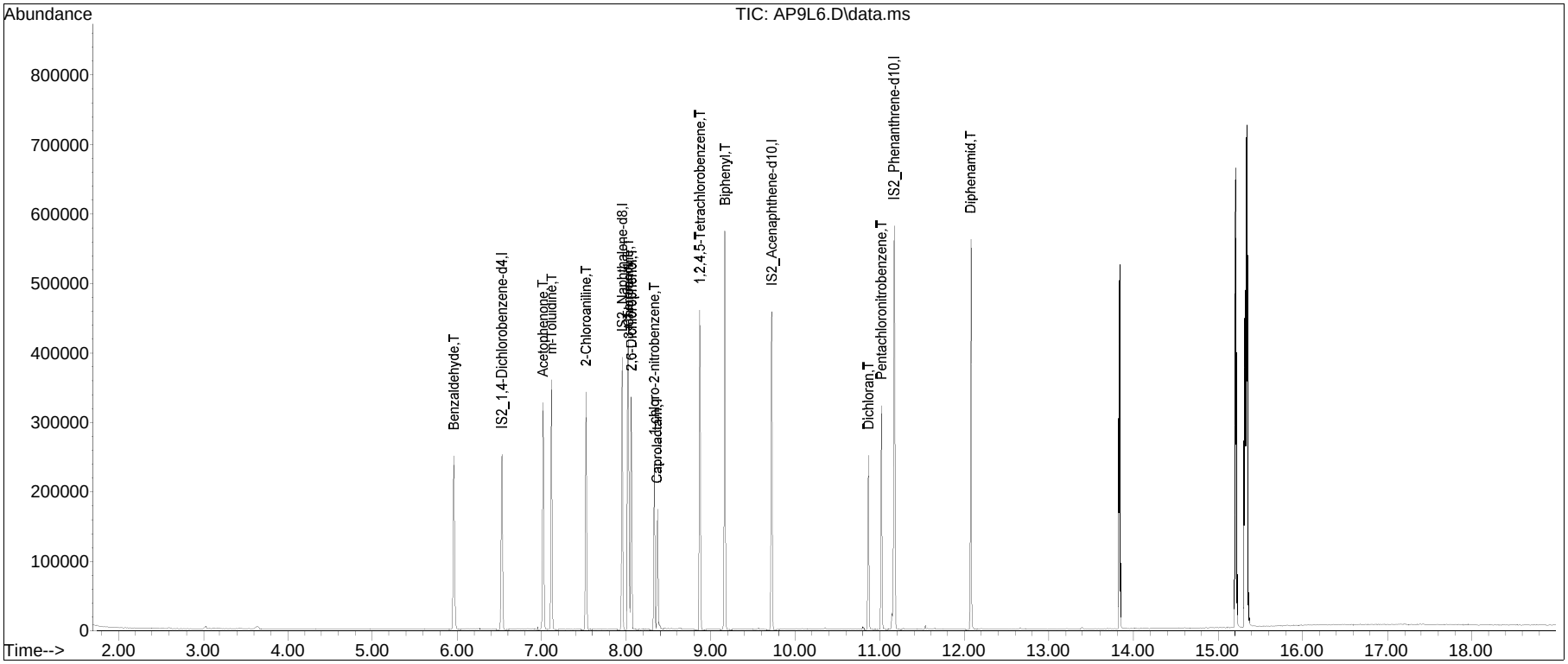
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L6.D
Acq On : 3 Jun 2024 12:37 am
Operator : SV107:jg
Sample : IL5,32,,AP9L5 Lot# 10703
Misc : WG1929644,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 16:10:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 12:37 am	Instrument	: SV107
Sample	: IL5,32,,AP9L5 Lot# 10703	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.540	152	46890	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery = 105.59%			
54) IS2_Naphthalene-d8	7.957	136	170919	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery = 100.79%			
82) IS2_Acenaphthene-d10	9.728	164	103469	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery = 103.63%			
97) IS2_Phenanthrene-d10	11.175	188	220465	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery = 102.56%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	28474	2.460	ug/ml	98
29) Acetophenone	7.028	105	49113	2.500	ug/ml#	85
30) m-Toluidine	7.128	106	46785	2.402	ug/ml	95
31) 2-Chloroaniline	7.534	127	43298	2.481	ug/ml#	93
55) a-Terpineol	8.028	59	27803	2.584	ug/ml#	76
56) 3-Chloroaniline	8.040	65	15735	2.428	ug/ml	86
57) 2,6-Dichlorophenol	8.069	162	30396	2.676	ug/ml#	88
58) 1-chloro-2-nitrobenzene	8.339	111	12100	2.387	ug/ml#	1
59) Caprolactam	8.369	55	14231	2.729	ug/ml#	69
60) 1,2,4,5-Tetrachloroben...	8.875	216	40773	2.376	ug/ml	97
61) Biphenyl	9.175	154	95343	2.484	ug/ml	99
83) Dichloran	10.869	206	6586	2.397	ug/ml#	80
84) Pentachloronitrobenzene	11.022	237	7921	2.454	ug/ml#	82
98) Diphenamid	12.080	167	59344	2.913	ug/ml#	82

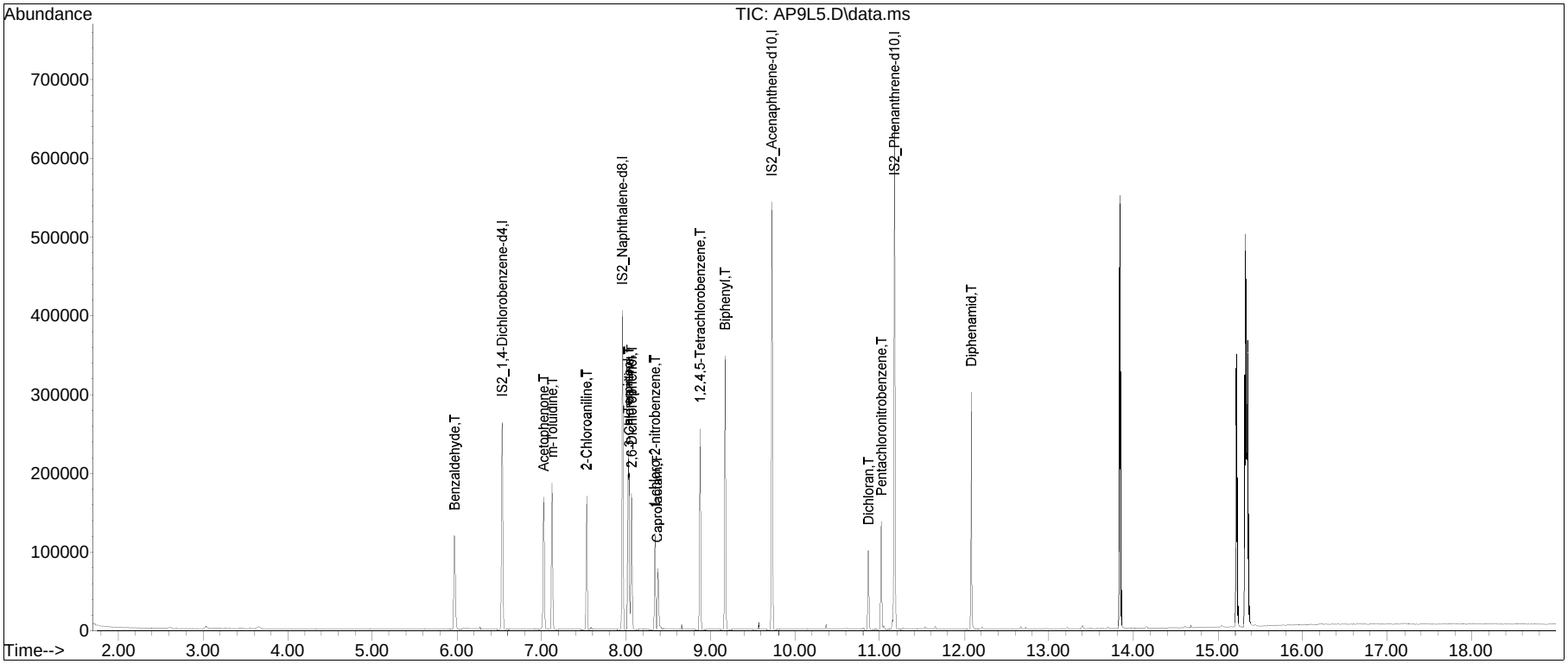
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L5.D
Acq On : 3 Jun 2024 1:08 am
Operator : SV107:jg
Sample : IL6,32,,AP9L2.5 Lot# 10704
Misc : WG1929644,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 03 16:10:01 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:08 am	Instrument	: SV107
Sample	: IL6,32,,AP9L2.5 Lot# 10704	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	47509	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery =	106.99%		
54) IS2_Naphthalene-d8	7.957	136	173835	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery =	102.51%		
82) IS2_Acenaphthene-d10	9.728	164	103977	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery =	104.14%		
97) IS2_Phenanthrene-d10	11.169	188	219480	4.000	ug/ml #	0.00
Standard Area 3 = 214959			Recovery =	102.10%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.969	105	12095	1.031	ug/ml	95
29) Acetophenone	7.028	105	20411	1.025	ug/ml#	85
30) m-Toluidine	7.122	106	18578	0.941	ug/ml	93
31) 2-Chloroaniline	7.528	127	17491	0.989	ug/ml	94
55) a-Terpineol	8.022	59	11870	1.085	ug/ml#	79
56) 3-Chloroaniline	8.040	65	6420	0.974	ug/ml	82
57) 2,6-Dichlorophenol	8.063	162	11983	1.037	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.334	111	4685	0.909	ug/ml#	1
59) Caprolactam	8.369	55	5453	1.423	ug/ml#	80
60) 1,2,4,5-Tetrachloroben...	8.869	216	17097	0.980	ug/ml#	95
61) Biphenyl	9.175	154	38926	0.997	ug/ml	99
83) Dichloran	10.863	206	2167	1.192	ug/ml	85
84) Pentachloronitrobenzene	11.016	237	2723	1.268	ug/ml#	84
98) Diphenamid	12.075	167	22513	1.110	ug/ml#	81

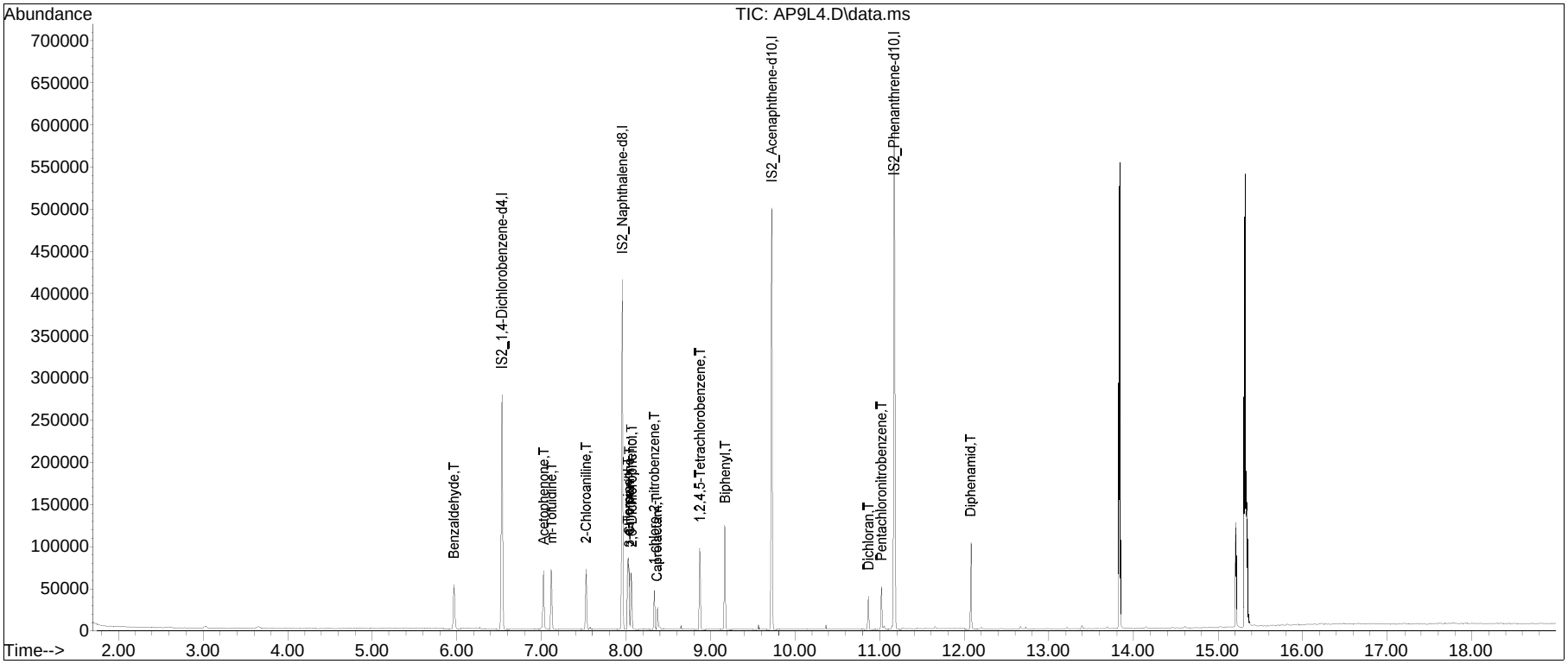
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L4.D
Acq On : 3 Jun 2024 1:33 am
Operator : SV107:jg
Sample : IL7,32,,AP9L1 Lot# 10705
Misc : WG1929644,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 16:09:41 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:33 am	Instrument	: SV107
Sample	: IL7,32,,AP9L1 Lot# 10705	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	49009	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 110.37%				
54) IS2_Naphthalene-d8	7.957	136	179546	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 105.88%				
82) IS2_Acenaphthene-d10	9.728	164	109029	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 109.19%				
97) IS2_Phenanthrene-d10	11.169	188	231050	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 107.49%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.969	105	6140	0.508	ug/ml		97
29) Acetophenone	7.028	105	10875	0.530	ug/ml	#	91
30) m-Toluidine	7.122	106	9689	0.476	ug/ml		93
31) 2-Chloroaniline	7.528	127	9015	0.494	ug/ml		94
55) a-Terpineol	8.022	59	6227	0.551	ug/ml	#	77
56) 3-Chloroaniline	8.039	65	3347	0.492	ug/ml		89
57) 2,6-Dichlorophenol	8.063	162	6354	0.532	ug/ml	#	89
58) 1-chloro-2-nitrobenzene	8.334	111	2550	0.479	ug/ml	#	1
59) Caprolactam	8.369	55	2660	1.007	ug/ml	#	93
60) 1,2,4,5-Tetrachloroben...	8.875	216	9408	0.522	ug/ml	#	94
61) Biphenyl	9.175	154	21583	0.535	ug/ml		99
83) Dichloran	10.863	206	1250	0.926	ug/ml	#	79
84) Pentachloronitrobenzene	11.016	237	1494	0.974	ug/ml	#	81
98) Diphenamid	12.080	167	11982	0.561	ug/ml	#	79

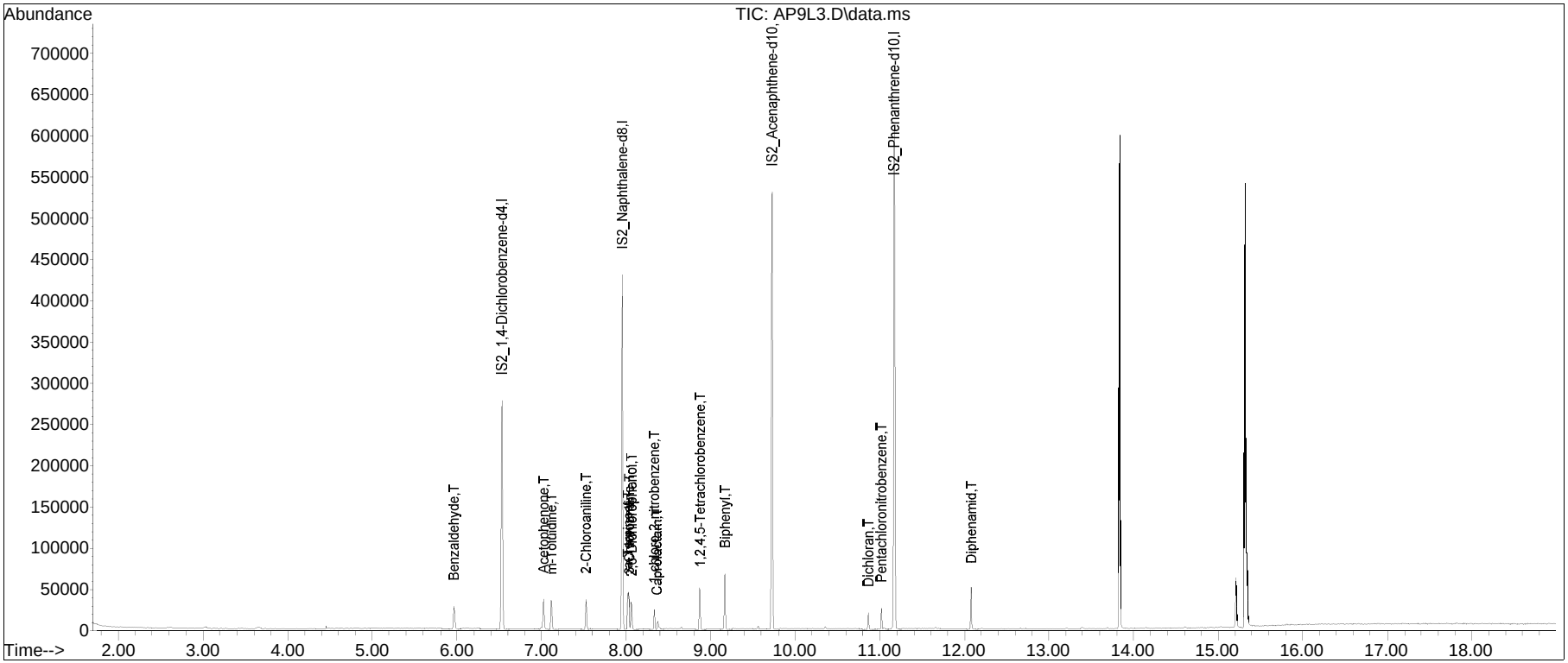
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L3.D
Acq On : 3 Jun 2024 1:58 am
Operator : SV107:jg
Sample : IL8,32,,AP9L0.5 Lot# 10706
Misc : WG1929644,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 16:09:21 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 1:58 am	Instrument	: SV107
Sample	: IL8,32,,AP9L0.5 Lot# 10706	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	49463	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 111.39%				
54) IS2_Naphthalene-d8	7.957	136	179922	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 106.10%				
82) IS2_Acenaphthene-d10	9.728	164	109290	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 109.46%				
97) IS2_Phenanthrene-d10	11.169	188	228813	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 106.44%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.975	105	2696	0.221	ug/ml		93
29) Acetophenone	7.028	105	4186	0.202	ug/ml	#	92
30) m-Toluidine	7.122	106	3525	0.172	ug/ml		95
31) 2-Chloroaniline	7.528	127	3896	0.212	ug/ml		94
55) a-Terpineol	8.022	59	2243	0.198	ug/ml	#	68
56) 3-Chloroaniline	8.040	65	1322	0.194	ug/ml		82
57) 2,6-Dichlorophenol	8.063	162	2307	0.193	ug/ml	#	88
58) 1-chloro-2-nitrobenzene	8.334	111	1090	0.204	ug/ml	#	1
59) Caprolactam	8.387	55	790	0.745	ug/ml	#	43
60) 1,2,4,5-Tetrachloroben...	8.869	216	3668	0.203	ug/ml		94
61) Biphenyl	9.175	154	8671	0.215	ug/ml		100
83) Dichloran	10.863	206	506	0.731	ug/ml	#	69
84) Pentachloronitrobenzene	11.016	237	485	0.756	ug/ml	#	37
98) Diphenamid	12.075	167	4329	0.205	ug/ml		83

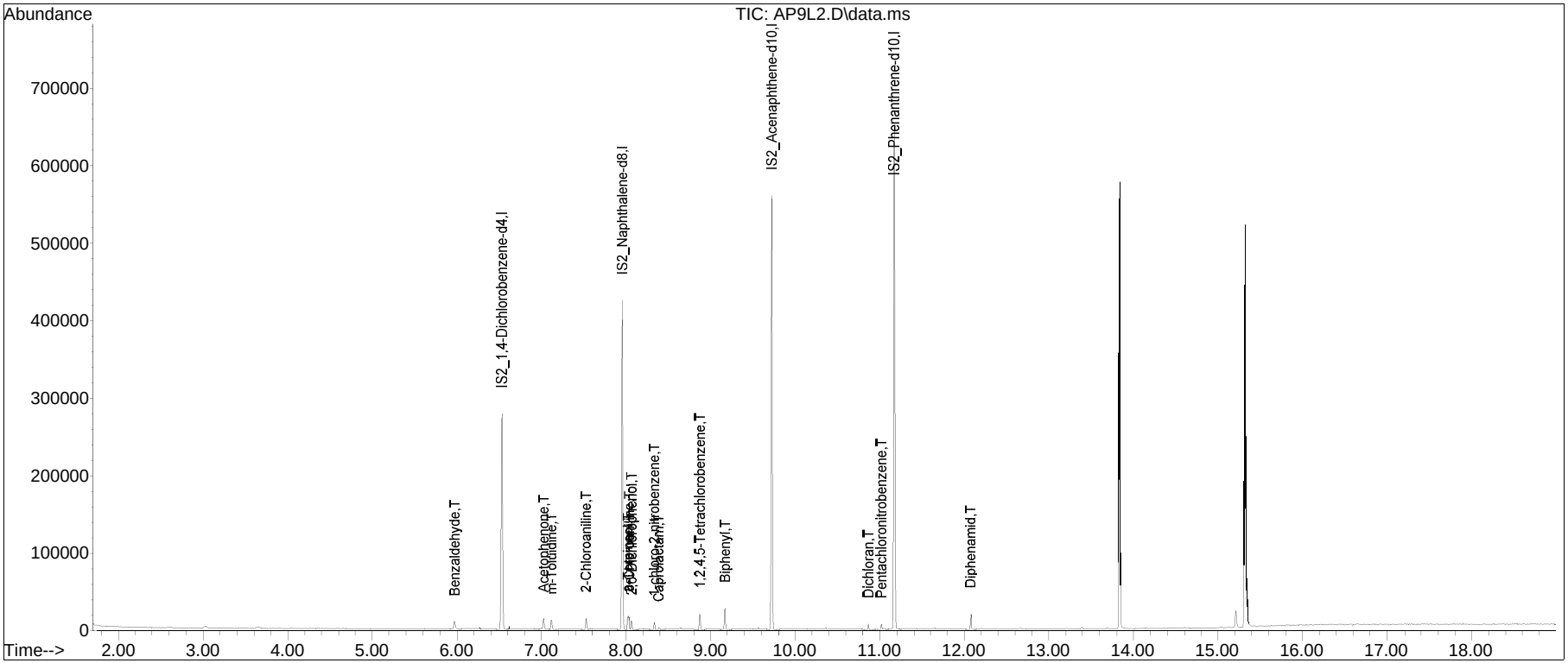
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L2.D
Acq On : 3 Jun 2024 2:23 am
Operator : SV107:jg
Sample : IL9,32,,AP9L0.2 Lot# 10707
Misc : WG1929644,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 03 16:08:57 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9L2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 2:23 am	Instrument	: SV107
Sample	: IL9,32,,AP9L0.2 Lot# 10707	Quant Date	: 6/3/2024 10:24 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.534	152	49963	4.000	ug/ml	0.00
Standard Area 3 = 44406			Recovery = 112.51%			
54) IS2_Naphthalene-d8	7.957	136	180953	4.000	ug/ml	0.00
Standard Area 3 = 169580			Recovery = 106.71%			
82) IS2_Acenaphthene-d10	9.727	164	108611	4.000	ug/ml	0.00
Standard Area 3 = 99848			Recovery = 108.78%			
97) IS2_Phenanthrene-d10	11.169	188	222108	4.000	ug/ml	# 0.00
Standard Area 3 = 214959			Recovery = 103.33%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.975	105	1301	0.105	ug/ml	91
29) Acetophenone	7.028	105	2195	0.105	ug/ml#	81
30) m-Toluidine	7.128	106	1360	0.066	ug/ml#	93
31) 2-Chloroaniline	7.528	127	1858	0.100	ug/ml#	92
55) a-Terpineol	8.022	59	1234	0.108	ug/ml#	75
56) 3-Chloroaniline	8.033	65	582	0.085	ug/ml	87
57) 2,6-Dichlorophenol	8.069	162	1076	0.089	ug/ml#	89
58) 1-chloro-2-nitrobenzene	8.333	111	460	0.086	ug/ml#	1
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	8.869	216	1907	0.105	ug/ml#	87
61) Biphenyl	9.175	154	4181	0.103	ug/ml	97
83) Dichloran	10.863	206	245M2	0.663	ug/ml	
84) Pentachloronitrobenzene	11.016	237	92M6	0.671	ug/ml	
98) Diphenamid	12.074	167	2056	0.100	ug/ml	86

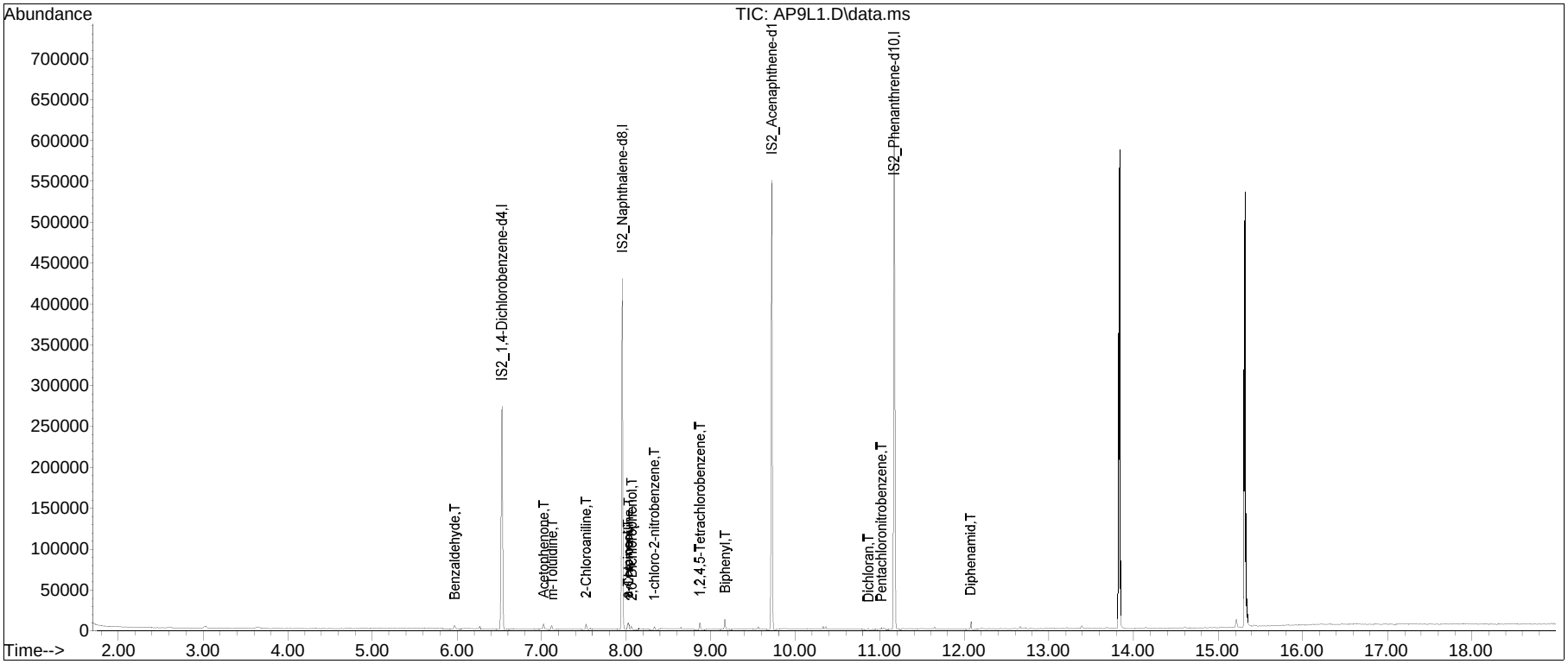
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9L1.D
Acq On : 3 Jun 2024 2:49 am
Operator : SV107:jg
Sample : IL10,32,,AP9L0.1 Lot# 10708
Misc : WG1929644,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 03 16:08:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

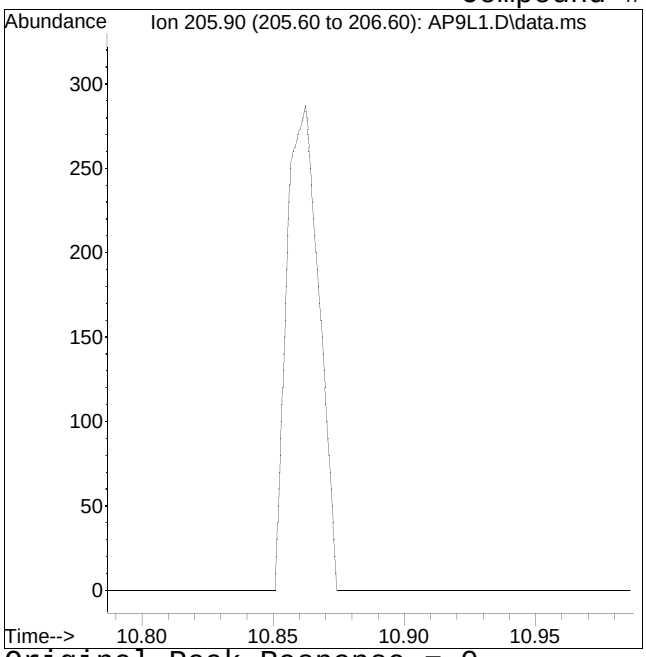
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



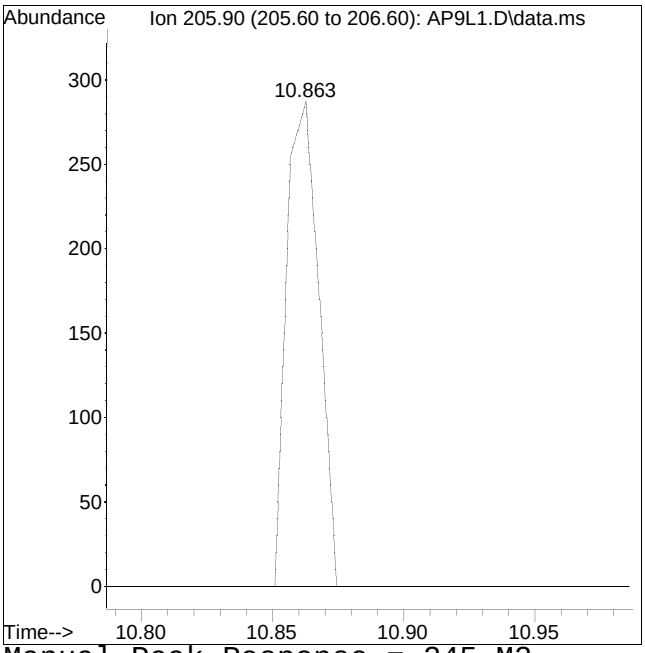
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070Quant Date : 6/3/2024 10:23 am

Compound #83: Dichloran



Original Peak Response = 0



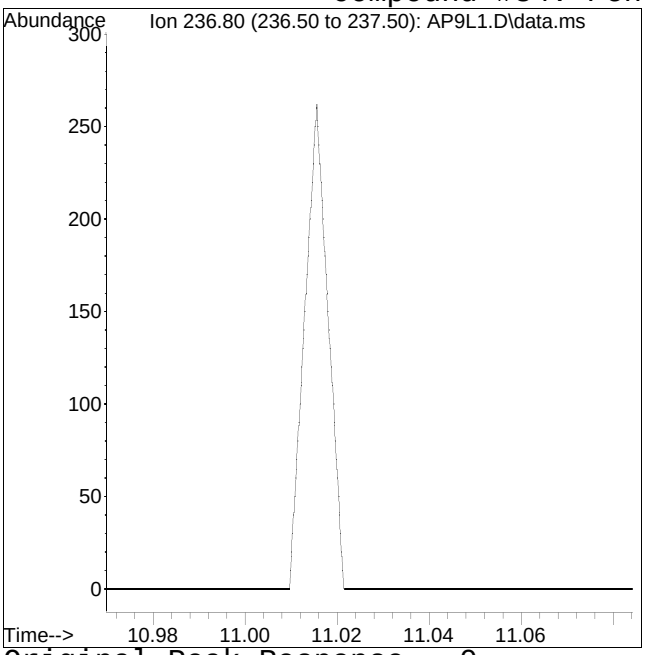
Manual Peak Response = 245 M2

M2 = Peak not found by automatic integration algorithm.

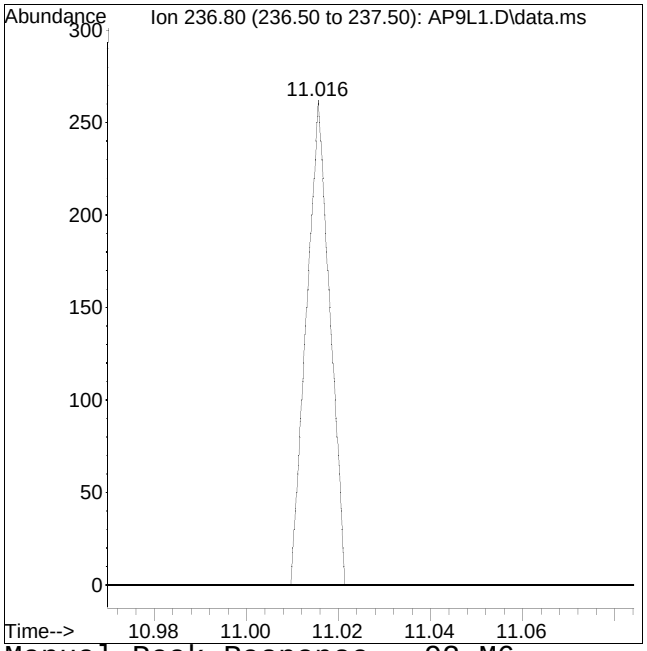
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : AP9L1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 2:49 am Instrument : SV107
Sample : IL10,32,,AP9L0.1 Lot# 1070 Quant Date : 6/3/2024 10:23 am

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 92 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine		0.704	0.768	-9.1	103	0.00
3	t	Pyridine		1.199	1.251	-4.3	100	-0.02
4	S	2-Fluorophenol		1.069	1.146	-7.2	102	0.00
5	T	Aniline		1.713	1.863	-8.8	106	0.00
6	t	2-Chlorophenol		1.178	1.257	-6.7	103	0.00
7	S	Phenol-d6		1.322	1.436	-8.6	105	0.00
8	T	Phenol		1.438	1.539	-7.0	105	0.00
9	T	Bis(2-chloroethyl)ether		1.185	1.257	-6.1	106	0.00
10	T	1,3-Dichlorobenzene		1.452	1.551	-6.8	105	0.00
11	T	1,4-Dichlorobenzene		1.478	1.555	-5.2	104	0.00
12	T	1,2-Dichlorobenzene		1.426	1.507	-5.7	104	0.00
13	t	Benzyl alcohol		1.000	1.070	-7.0	104	0.00
14	T	Bis(2-chloroisopropyl)ether		1.623	1.732	-6.7	107	0.00
15	T	2-Methylphenol		1.031	1.108	-7.5	103	0.00
16	T	Hexachloroethane		0.545	0.582	-6.8	104	0.00
17	T	n-Nitrosodi-n-propylamine		0.879	0.938	-6.7	104	0.00
18	T	3-Methylphenol/4-Methylphen		1.084	1.189	-9.7	102	0.00
19	S	Nitrobenzene-d5		1.165	1.236	-6.1	99	0.00
20	T	Nitrobenzene		1.197	1.260	-5.3	98	0.00
21	T	Isophorone		2.310	2.527	-9.4	104	0.00
22	T	2-Nitrophenol		0.533	0.499	6.4	93	0.00
23	T	2,4-Dimethylphenol		1.088	1.120	-2.9	98	0.00
24	T	Bis(2-chloroethoxy)methane		1.508	1.642	-8.9	108	0.00
25	T	2,4-Dichlorophenol		1.094	1.207	-10.3	102	0.00
26	T	1,2,4-Trichlorobenzene		1.318	1.411	-7.1	107	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	95	0.00
35	T	Naphthalene		0.996	1.041	-4.5	107	0.00
36	T	Benzoic Acid	*	5.000	4.821	3.6	96	0.00
37	T	4-Chloroaniline		0.126	0.136	-7.9	107	0.00
38	T	Hexachlorobutadiene		0.211	0.230	-9.0	111	0.00
39	T	p-Chloro-m-cresol		0.272	0.297	-9.2	102	0.00
40	T	2-Methylnaphthalene		0.688	0.740	-7.6	107	0.00
41	T	1-Methylnaphthalene		0.235	0.251	-6.8	108	0.00
42	T	Hexachlorocyclopentadiene		0.205	0.225	-9.8	108	0.00
43	T	2,4,6-Trichlorophenol		0.237	0.260	-9.7	101	0.00
44	T	2,4,5-Trichlorophenol		0.251	0.278	-10.8	103	0.00
45	S	2-Fluorobiphenyl		0.866	0.928	-7.2	107	0.00

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.715	0.756	-5.7	106	0.00
47	T	2-Nitroaniline		0.173	0.173	0.0	94	0.00
48	T	1,4-Dinitrobenzene		0.087	0.076	12.6	95	0.00
49	T	1,3-Dinitrobenzene		0.109	0.097	11.0	93	0.00
50	T	Dimethyl phthalate		0.839	0.901	-7.4	105	0.00
51	T	Acenaphthylene		1.079	1.189	-10.2	107	0.00
52	T	2,6-Dinitrotoluene		0.153	0.166	-8.5	98	0.00
53	T	1,2-Dinitrobenzene		0.068	0.070	-2.9	95	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	89	0.00
63	T	3-Nitroaniline		0.259	0.287	-10.8	100	0.00
64	T	Acenaphthene		1.081	1.163	-7.6	107	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.210	15.8	88	0.00
66	T	Dibenzofuran		1.757	1.922	-9.4	107	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.699	6.0	99	0.00
68	T	4-Nitrophenol		0.221	0.232	-5.0	100	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.318	0.377	-18.6	105	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.314	0.386	-22.9#	107	0.00
71	T	Diethyl phthalate		1.301	1.431	-10.0	107	0.00
72	T	Fluorene		1.328	1.453	-9.4	105	0.00
73	T	4-Chlorophenyl phenyl ether		0.672	0.742	-10.4	108	0.00
74	T	4-Nitroaniline		0.262	0.292	-11.5	104	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.232	15.4	98	0.00
76	T	NDPA/DPA		1.131	1.265	-11.8	107	0.00
77	T	Azobenzene		1.259	1.441	-14.5	108	0.00
78	S	2,4,6-Tribromophenol		0.171	0.200	-17.0	102	0.00
79	T	4-Bromophenyl phenyl ether		0.376	0.409	-8.8	106	0.00
80	T	Hexachlorobenzene		0.431	0.465	-7.9	107	0.00
81	T	Pentachlorophenol		0.252	0.269	-6.7	102	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	90	0.00
88	T	Phenanthrene		1.038	1.096	-5.6	105	0.00
89	T	Anthracene		1.030	1.137	-10.4	109	0.00
90	T	Carbazole		0.928	1.011	-8.9	104	0.00
91	T	Di-n-butylphthalate		1.088	1.207	-10.9	104	0.00
92	T	Fluoranthene		1.186	1.307	-10.2	108	0.00
93	T	Benzidine		0.721	0.754	-4.6	101	0.00
94	T	Pyrene		1.269	1.394	-9.9	108	0.00
95	S	4-Terphenyl-d14		0.875	0.956	-9.3	108	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.557	8.9	100	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	86	0.00
104	T	Benzo(a)anthracene		1.335	1.459	-9.3	103	0.00
105	T	3,3'-Dichlorobenzidine		0.430	0.500	-16.3	100	0.00
106	T	Chrysene		1.276	1.383	-8.4	102	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	5.140	-2.8	103	0.00
108	T	Di-n-octylphthalate	*	5.000	4.740	5.2	99	0.00
109	T	Benzo(b)fluoranthene		1.178	1.306	-10.9	101	0.00
110	T	Benzo(k)fluoranthene		1.154	1.298	-12.5	101	0.00
111	T	Benzo(a)pyrene		1.025	1.213	-18.3	106	-0.01
112	I	IS1_Perylene-d12		1.000	1.000	0.0	84	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.952	1.196	-25.6#	113	-0.01
114	T	Dibenzo(a,h)anthracene		0.953	1.178	-23.6#	103	-0.01
115	T	Benzo(ghi)perylene		0.928	1.074	-15.7	103	-0.01

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.534	152	48133	4.000	ug/ml	0.00
Standard Area 1 = 52051			Recovery = 92.47%			
34) IS1_Naphthalene-d8	7.957	136	179971	4.000	ug/ml	0.00
Standard Area 1 = 190351			Recovery = 94.55%			
62) IS1_Acenaphthene-d10	9.727	164	110910	4.000	ug/ml	0.00
Standard Area 1 = 123969			Recovery = 89.47%			
87) IS1_Phenanthrene-d10	11.169	188	227716	4.000	ug/ml	0.00
Standard Area 1 = 252252			Recovery = 90.27%			
103) IS1_Chrysene-d12	13.833	240	201209	4.000	ug/ml	0.00
Standard Area 1 = 233929			Recovery = 86.01%			
112) IS1_Perylene-d12	15.315	264	202785	4.000	ug/ml	0.00
Standard Area 1 = 241074			Recovery = 84.12%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.687	112	68980	5.362	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 268.10%#			
7) Phenol-d6	6.157	99	86386	5.431	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 271.55%#			
19) Nitrobenzene-d5	7.181	82	74359	5.306	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 530.60%#			
45) 2-Fluorobiphenyl	9.080	172	208717	5.356	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 535.60%#			
78) 2,4,6-Tribromophenol	10.498	330	27761	5.871	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 293.55%#			
95) 4-Terphenyl-d14	12.763	244	272131	5.463	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 546.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.263	74	46190	5.454	ug/ml#	68
3) Pyridine	2.293	79	75290	5.217	ug/ml#	59
5) Aniline	6.128	93	112111	5.439	ug/ml	97
6) 2-Chlorophenol	6.269	128	75656	5.336	ug/ml	94
8) Phenol	6.175	94	92596	5.351	ug/ml	98
9) Bis(2-chloroethyl)ether	6.251	93	75604	5.301	ug/ml#	85
10) 1,3-Dichlorobenzene	6.457	146	93317	5.342	ug/ml	98
11) 1,4-Dichlorobenzene	6.551	146	93546	5.261	ug/ml	98
12) 1,2-Dichlorobenzene	6.728	146	90658	5.284	ug/ml	97

Quantitation Report (QT Reviewed)

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Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	6.734	79	64368	5.347	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.910	45	104198	5.335	ug/ml#	46
15) 2-Methylphenol	6.904	108	66691	5.377	ug/ml	99
16) Hexachloroethane	7.122	117	34991	5.336	ug/ml#	61
17) n-Nitrosodi-n-propylamine	7.057	70	56436	5.334	ug/ml	93
18) 3-Methylphenol/4-Methy...	7.086	108	71562	5.484	ug/ml	98
20) Nitrobenzene	7.204	77	75830	5.265	ug/ml	98
21) Isophorone	7.481	82	152062	5.470	ug/ml	97
22) 2-Nitrophenol	7.563	139	30029	4.680	ug/ml#	92
23) 2,4-Dimethylphenol	7.657	107	67410	5.150	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.751	93	98786	5.446	ug/ml	99
25) 2,4-Dichlorophenol	7.828	162	72592	5.515	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.910	180	84896	5.351	ug/ml	97
35) Naphthalene	7.975	128	234099	5.225	ug/ml	99
36) Benzoic Acid	7.751	105	37692	4.821	ug/ml	97
37) 4-Chloroaniline	8.057	65	30505	5.397	ug/ml	91
38) Hexachlorobutadiene	8.145	225	51724	5.458	ug/ml	98
39) p-Chloro-m-cresol	8.580	107	66777	5.450	ug/ml	98
40) 2-Methylnaphthalene	8.698	142	166439	5.374	ug/ml	94
41) 1-Methylnaphthalene	8.792	115	56538	5.353	ug/ml	97
42) Hexachlorocyclopentadiene	8.875	237	50620	5.482	ug/ml	99
43) 2,4,6-Trichlorophenol	8.992	196	58438	5.485	ug/ml	99
44) 2,4,5-Trichlorophenol	9.022	196	62619	5.542	ug/ml	98
46) 2-Chloronaphthalene	9.175	162	170033	5.283	ug/ml	96
47) 2-Nitroaniline	9.292	138	39012	5.011	ug/ml	92
48) 1,4-Dinitrobenzene	9.422	168	17114	4.373	ug/ml	82
49) 1,3-Dinitrobenzene	9.498	168	21913	4.480	ug/ml#	1
50) Dimethyl phthalate	9.492	163	202629	5.370	ug/ml#	99
51) Acenaphthylene	9.580	152	267479	5.507	ug/ml	98
52) 2,6-Dinitrotoluene	9.539	165	37241	5.426	ug/ml#	84
53) 1,2-Dinitrobenzene	9.580	168	15743	5.134	ug/ml#	1
63) 3-Nitroaniline	9.692	138	39753	5.525	ug/ml	98
64) Acenaphthene	9.757	154	161236	5.379	ug/ml	92
65) 2,4-Dinitrophenol	9.798	184	15506	4.210	ug/ml	90
66) Dibenzofuran	9.927	168	266500	5.472	ug/ml	93
67) 2,4-Dinitrotoluene	9.927	165	50041	4.699	ug/ml	94
68) 4-Nitrophenol	9.880	65	32159	5.239	ug/ml#	90
69) 2,3,5,6-Tetrachlorophenol	10.022	232	52335	5.940	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
Operator : SV107:jg
Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 03 16:32:08 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 2,3,4,6-Tetrachlorophenol	10.063	232	53523	6.152	ug/ml	99
71) Diethyl phthalate	10.192	149	198362	5.497	ug/ml	97
72) Fluorene	10.263	166	201378	5.468	ug/ml	94
73) 4-Chlorophenyl phenyl ...	10.280	204	102835	5.519	ug/ml	89
74) 4-Nitroaniline	10.286	138	40513	5.566	ug/ml#	85
75) 4,6-Dinitro-o-cresol	10.322	198	23532	4.232	ug/ml#	63
76) NDPA/DPA	10.398	169	175362	5.590	ug/ml	94
77) Azobenzene	10.433	77	199756	5.722	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.757	248	56638	5.427	ug/ml#	87
80) Hexachlorobenzene	10.810	284	64431	5.392	ug/ml#	88
81) Pentachlorophenol	10.998	266	37359	5.357	ug/ml	100
88) Phenanthrene	11.192	178	311941	5.278	ug/ml	99
89) Anthracene	11.245	178	323617	5.520	ug/ml	98
90) Carbazole	11.410	167	287846	5.448	ug/ml	98
91) Di-n-butylphthalate	11.798	149	343566	5.546	ug/ml	99
92) Fluoranthene	12.357	202	371982	5.510	ug/ml#	92
93) Benzidine	12.504	184	214564	5.230	ug/ml#	94
94) Pyrene	12.574	202	396732	5.493	ug/ml	99
96) Butyl benzyl phthalate	13.292	149	132785	4.557	ug/ml	94
104) Benzo(a)anthracene	13.821	228	366917	5.465	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.821	252	125706	5.814	ug/ml#	97
106) Chrysene	13.862	228	347792	5.420	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	13.939	149	222853	5.140	ug/ml#	95
108) Di-n-octylphthalate	14.621	149	332901	4.740	ug/ml#	74
109) Benzo(b)fluoranthene	14.945	252	328567	5.545	ug/ml#	94
110) Benzo(k)fluoranthene	14.968	252	326553	5.626	ug/ml#	93
111) Benzo(a)pyrene	15.257	252	305124	5.916	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	16.333	276	303147M6	6.281	ug/mL	
114) Dibenzo(a,h)anthracene	16.356	278	298480	6.178	ug/ml#	89
115) Benzo(ghi)perylene	16.603	276	272174	5.787	ug/ml#	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data File : ABNICV.D
Acq On : 3 Jun 2024 3:14 am
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Sample : CQICV1,32,,ABNICV Lot# 10688
Misc : WG1929644,,ical
ALS Vial : 19 Sample Multiplier: 1

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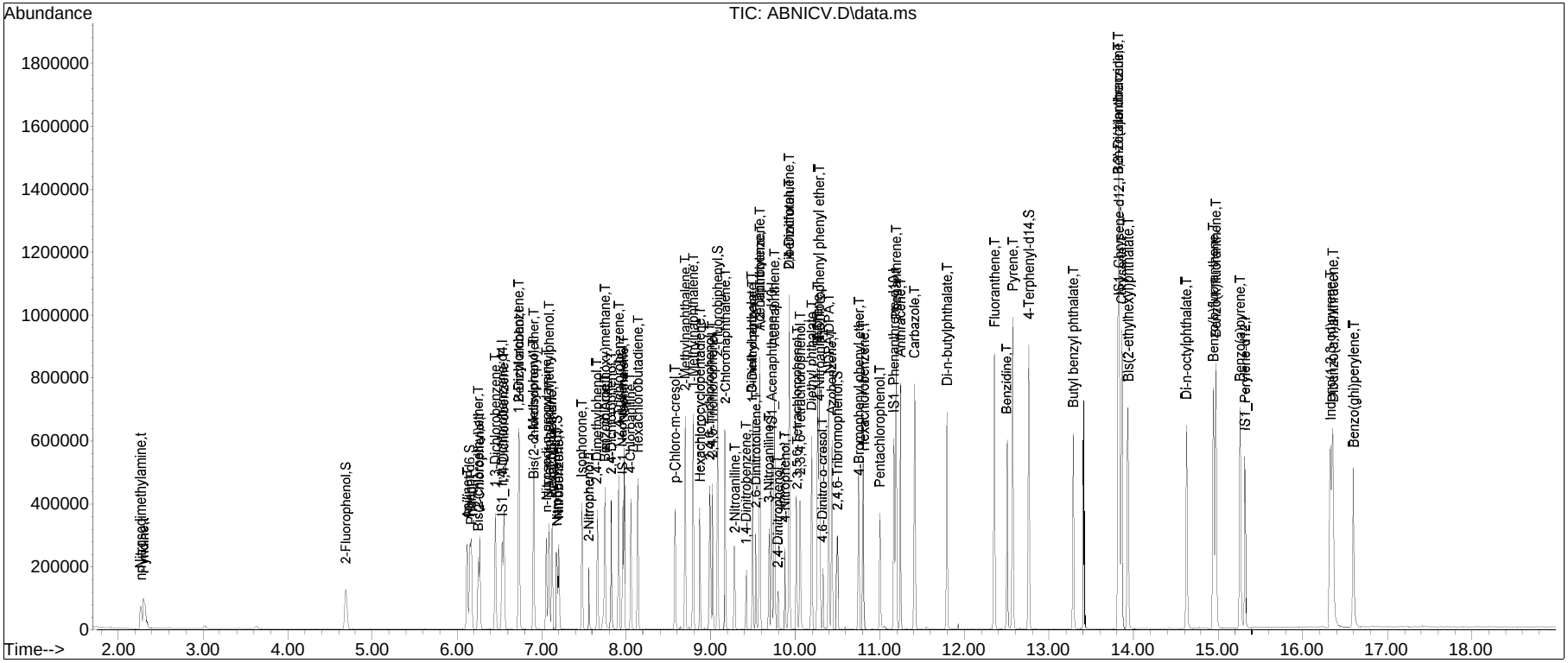
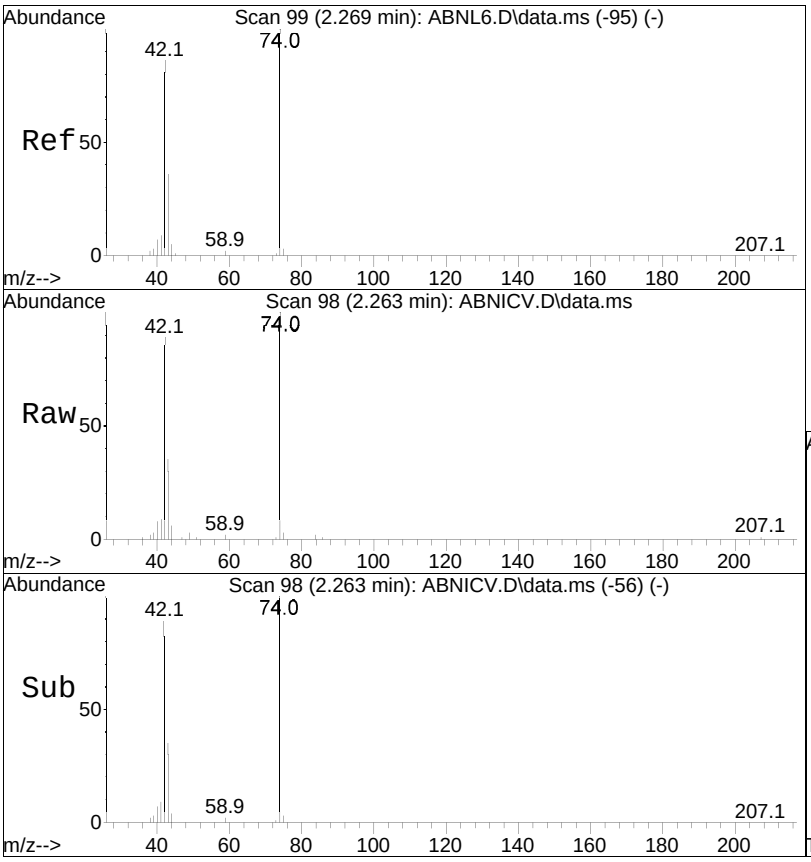
Sub List : ABNical - ABN ical sublistal\AP9L6.D•

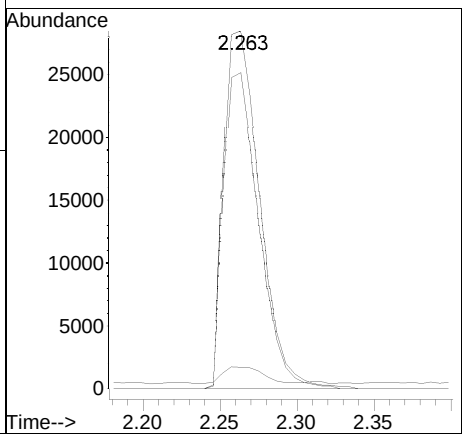


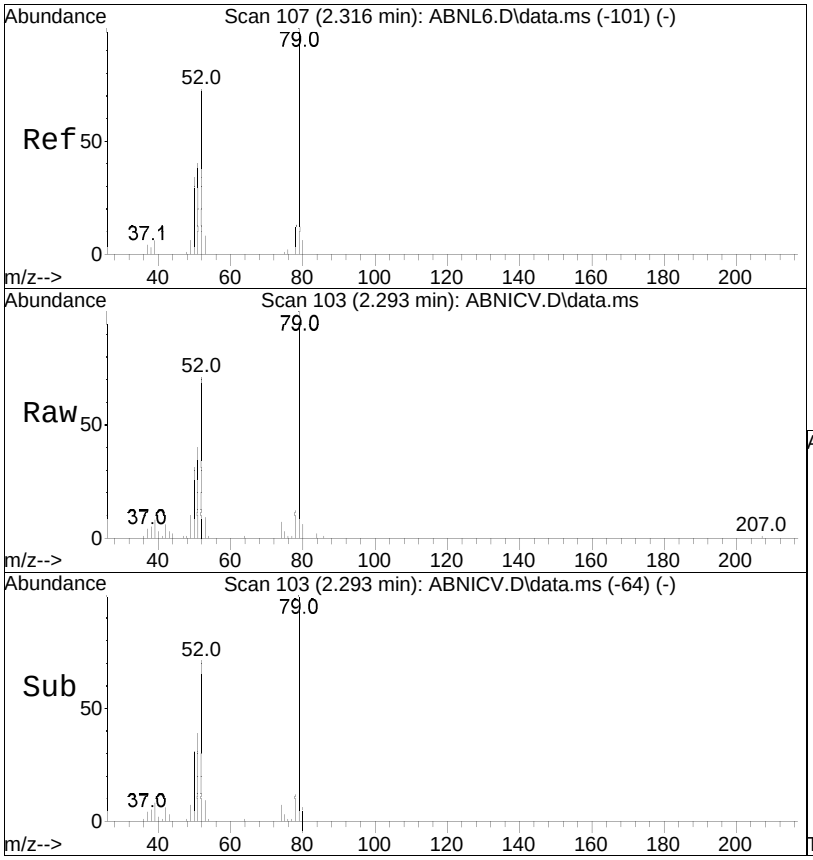


#2
n-Nitrosodimethylamine
Concen: 5.45 ug/ml
RT: 2.263 min Scan# 98
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 74 Resp: 46190

Ion	Ratio	Lower	Upper
74	100		
42	86.9	100.0	150.0#
44	5.2	6.7	10.1#

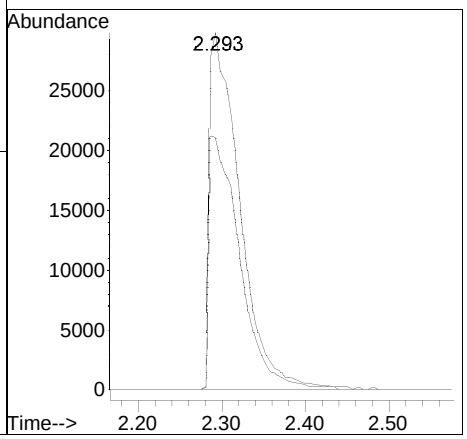


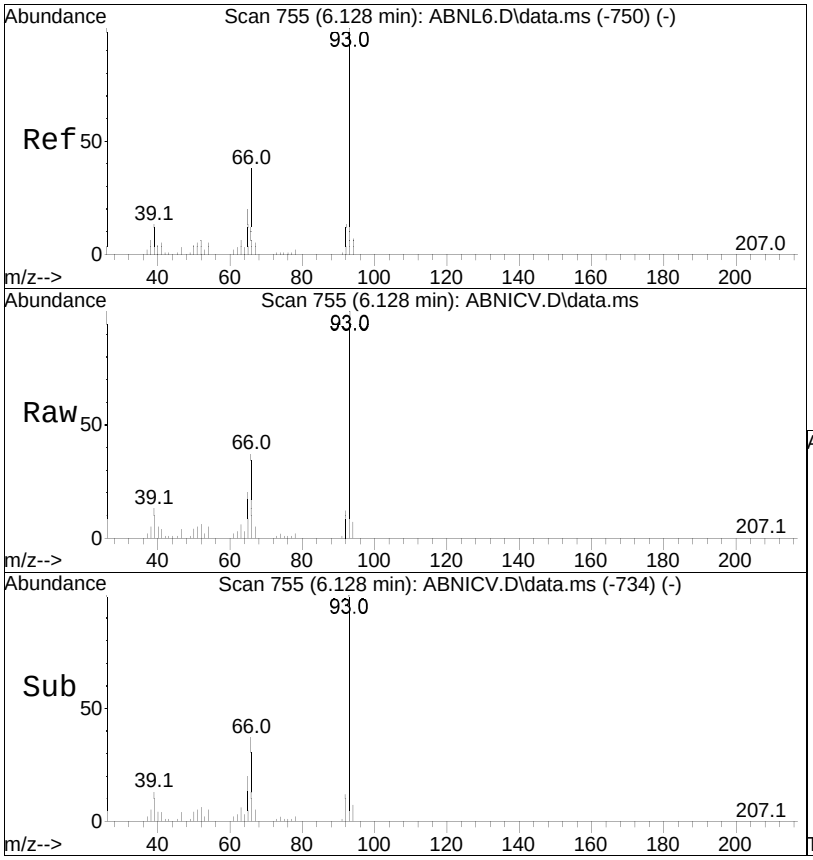


#3
Pyridine
Concen: 5.22 ug/ml
RT: 2.293 min Scan# 103
Delta R.T. -0.023 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 75290

Ion	Ratio	Lower	Upper
79	100		
52	72.0	93.1	139.7#

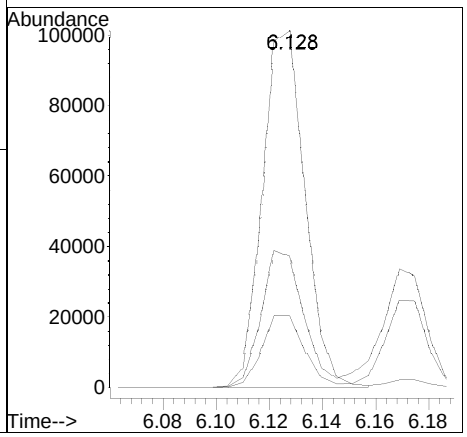


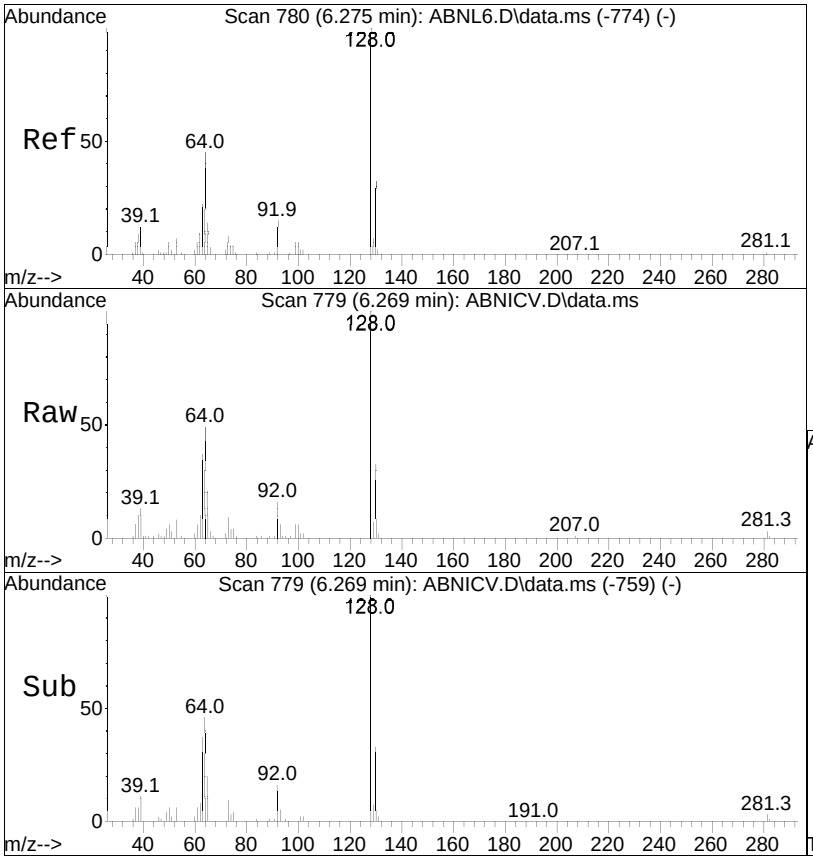


#5
Aniline
Concen: 5.44 ug/ml
RT: 6.128 min Scan# 755
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 112111

Ion	Ratio	Lower	Upper
93	100		
66	38.7	32.6	49.0
65	20.3	17.6	26.4

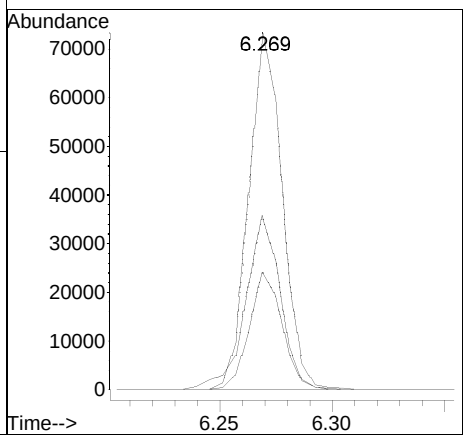


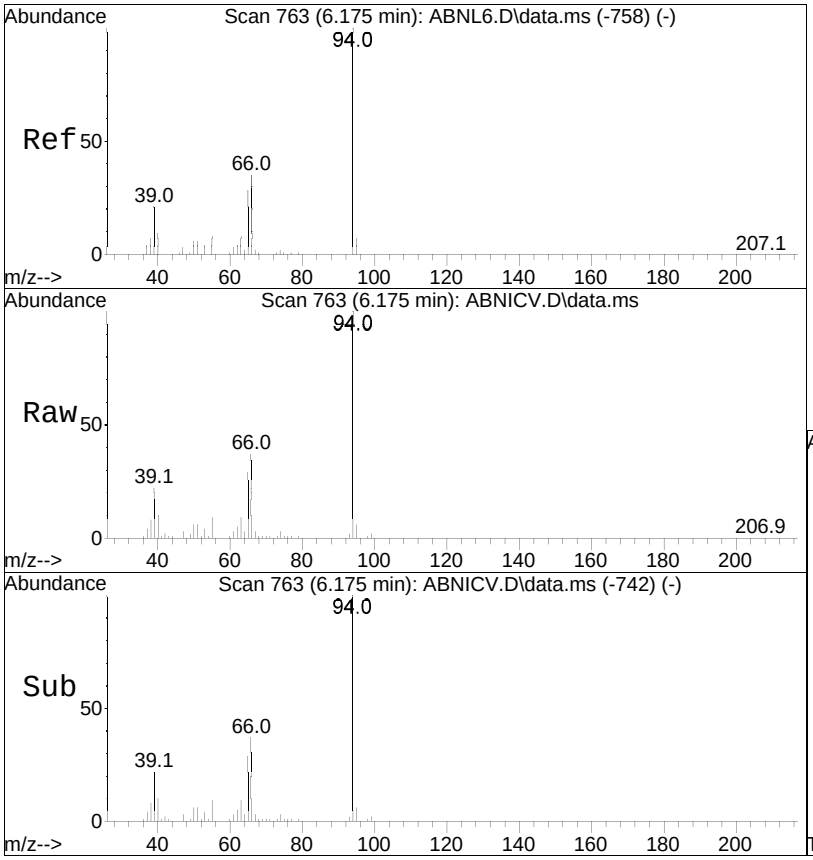


#6
2-Chlorophenol
Concen: 5.34 ug/ml
RT: 6.269 min Scan# 779
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 75656

Ion	Ratio	Lower	Upper
128	100		
64	50.4	45.1	67.7
130	32.3	26.2	39.4

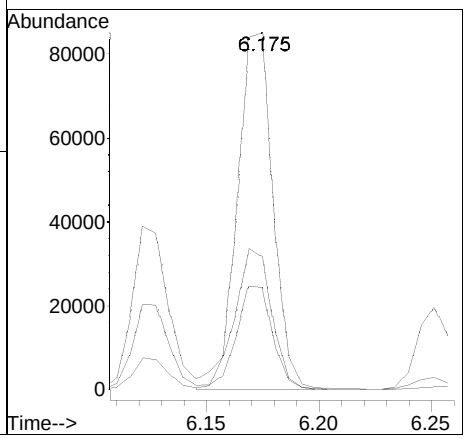


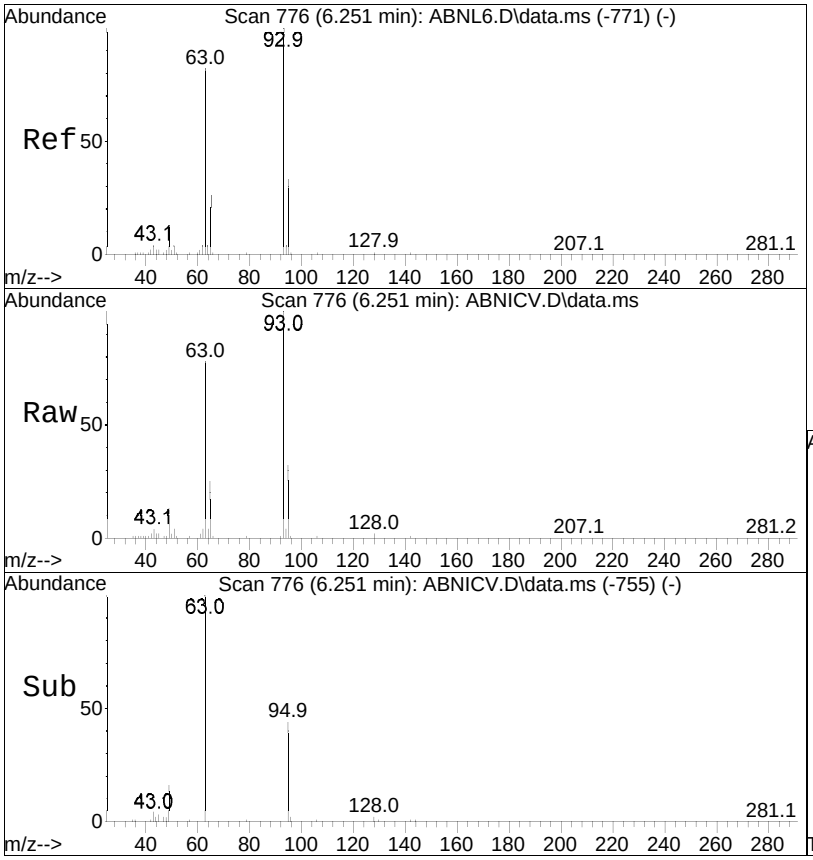


#8
Phenol
Concen: 5.35 ug/ml
RT: 6.175 min Scan# 763
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 94 Resp: 92596

Ion	Ratio	Lower	Upper
94	100		
65	30.0	26.0	39.0
66	42.7	33.8	50.8

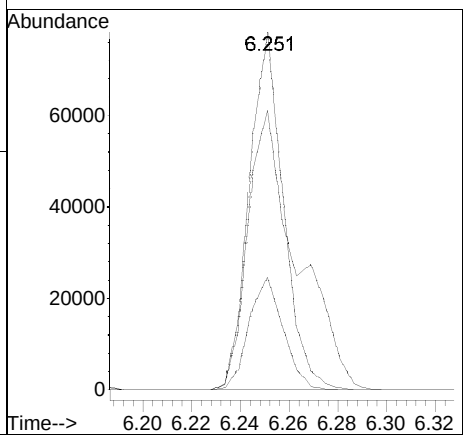


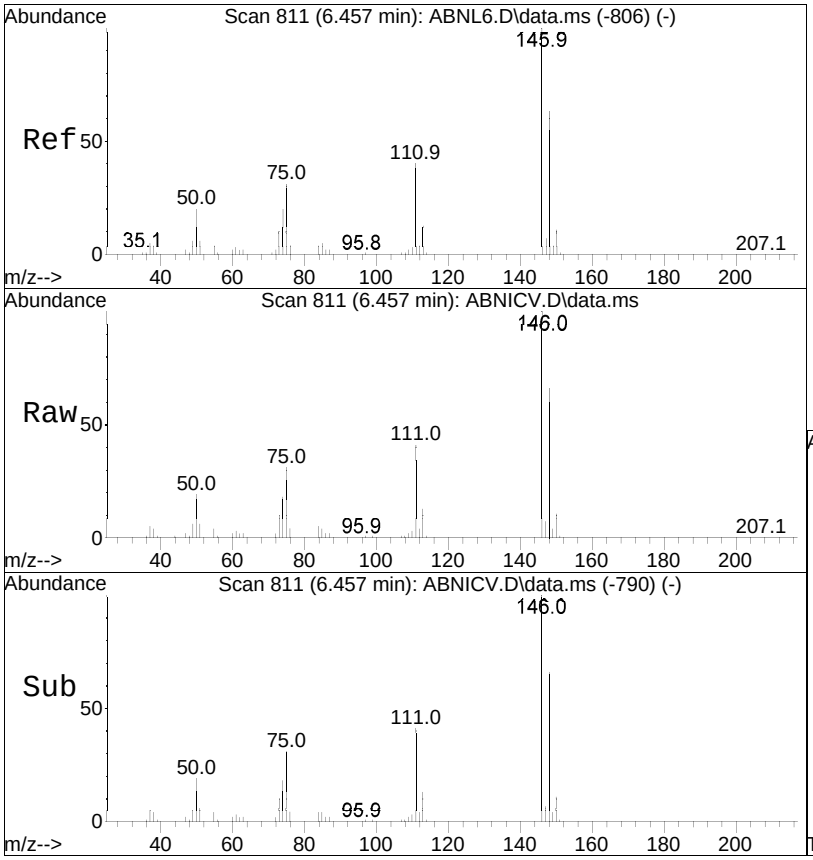


#9
Bis(2-chloroethyl)ether
Concen: 5.30 ug/ml
RT: 6.251 min Scan# 776
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 75604

Ion	Ratio	Lower	Upper
93	100		
63	112.3	74.6	111.8#
95	31.8	25.9	38.9

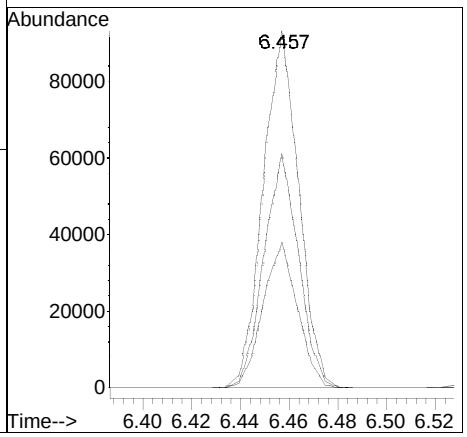


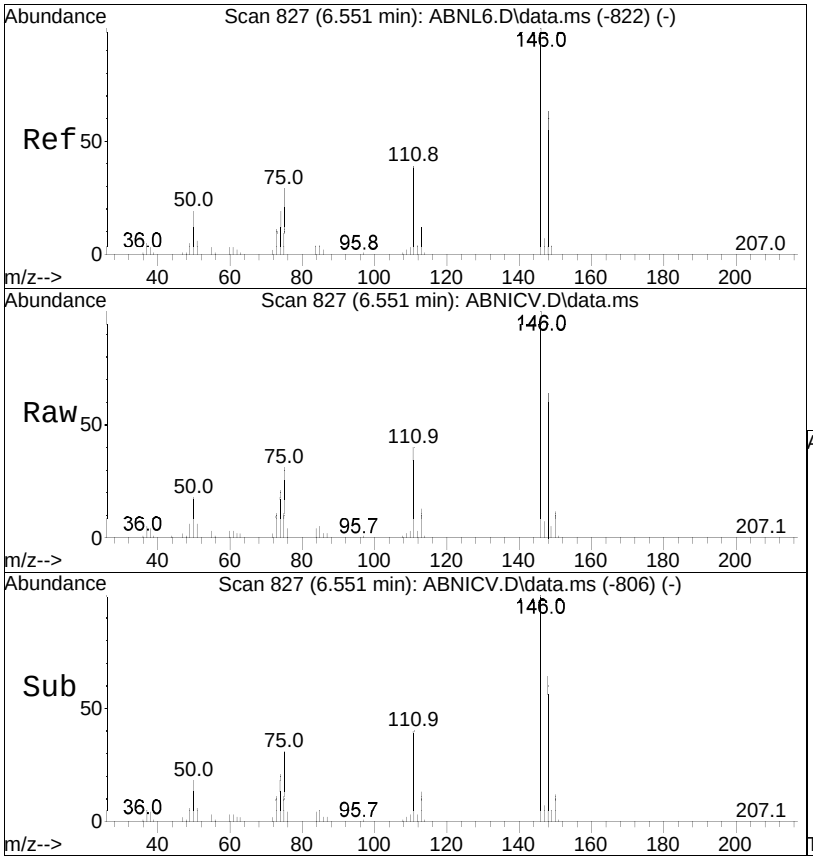


#10
1,3-Dichlorobenzene
Concen: 5.34 ug/ml
RT: 6.457 min Scan# 811
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93317

Ion	Ratio	Lower	Upper
146	100		
111	39.9	34.3	51.5
148	64.2	50.8	76.2

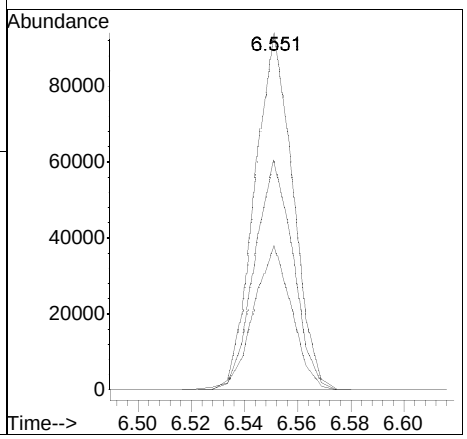


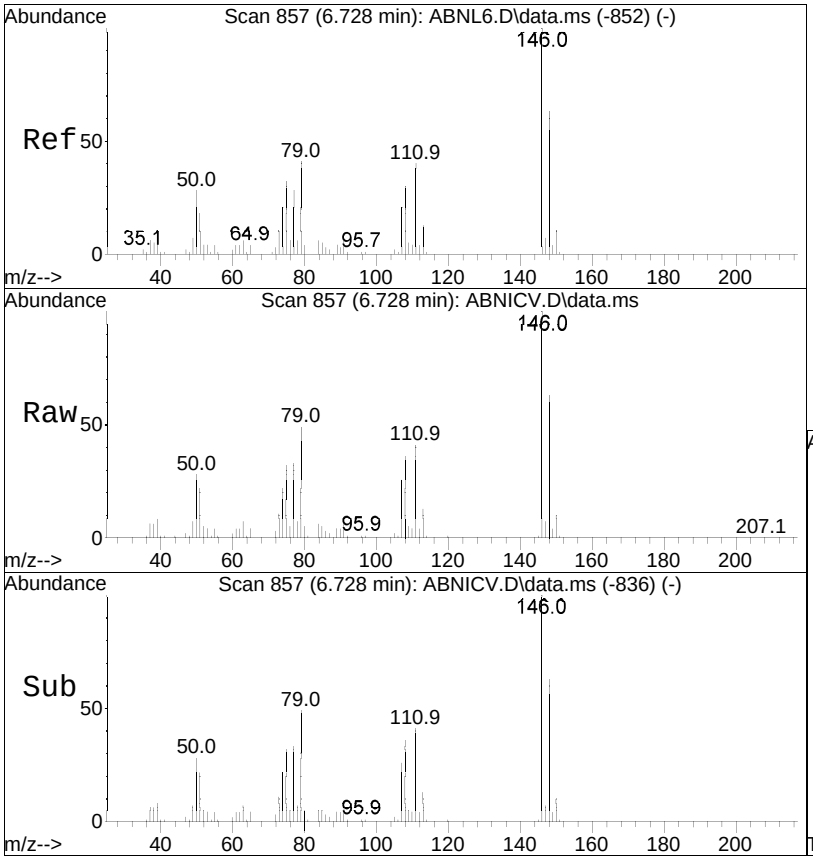


#11
1,4-Dichlorobenzene
Concen: 5.26 ug/ml
RT: 6.551 min Scan# 827
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 93546

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.7	76.1
111	40.3	33.4	50.0

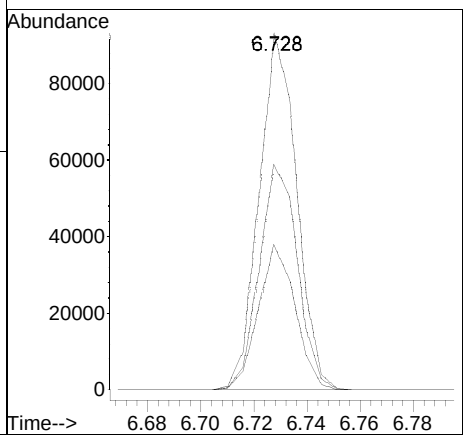


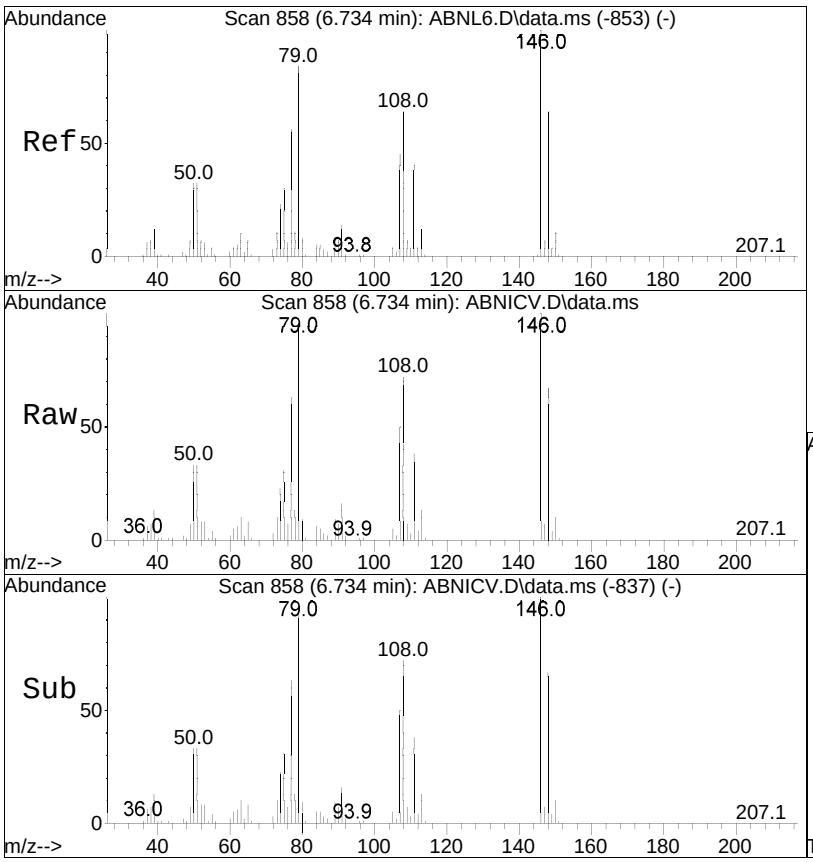


#12
1,2-Dichlorobenzene
Concen: 5.28 ug/ml
RT: 6.728 min Scan# 857
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:146 Resp: 90658

Ion	Ratio	Lower	Upper
146	100		
111	40.3	34.6	52.0
148	64.3	50.2	75.4

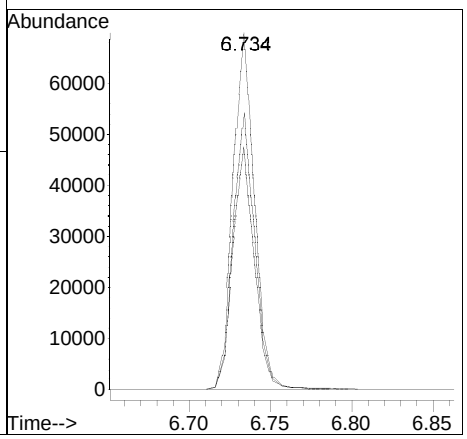


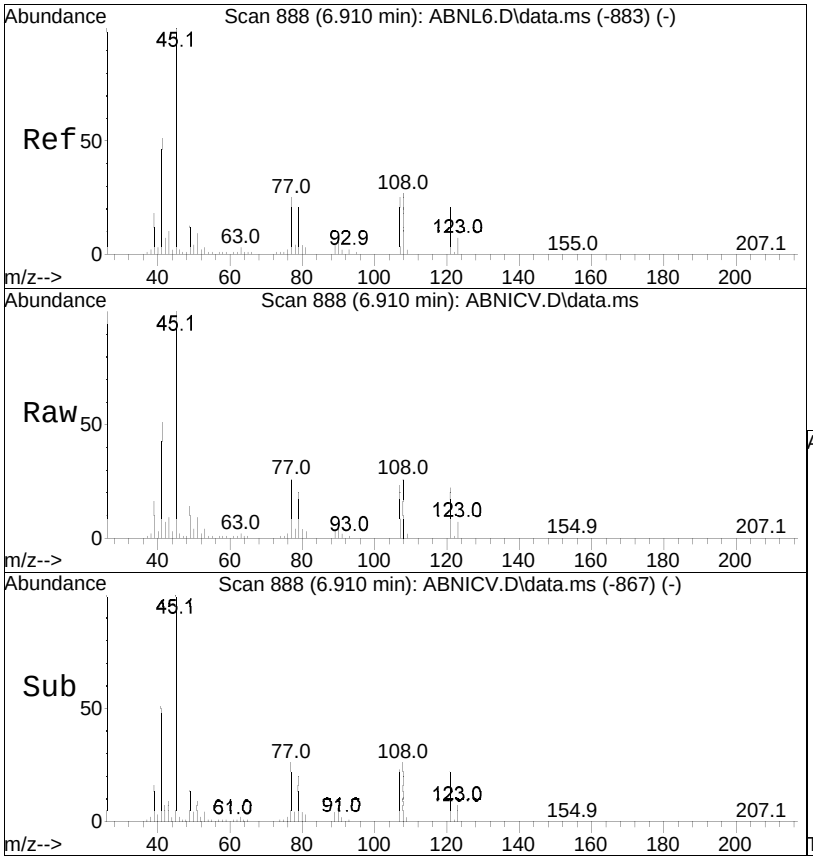


#13
Benzyl alcohol
Concen: 5.35 ug/ml
RT: 6.734 min Scan# 858
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 79 Resp: 64368

Ion	Ratio	Lower	Upper
79	100		
77	68.0	54.9	82.3
108	77.1	63.1	94.7

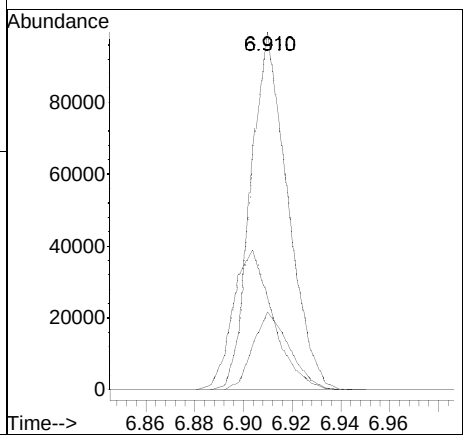


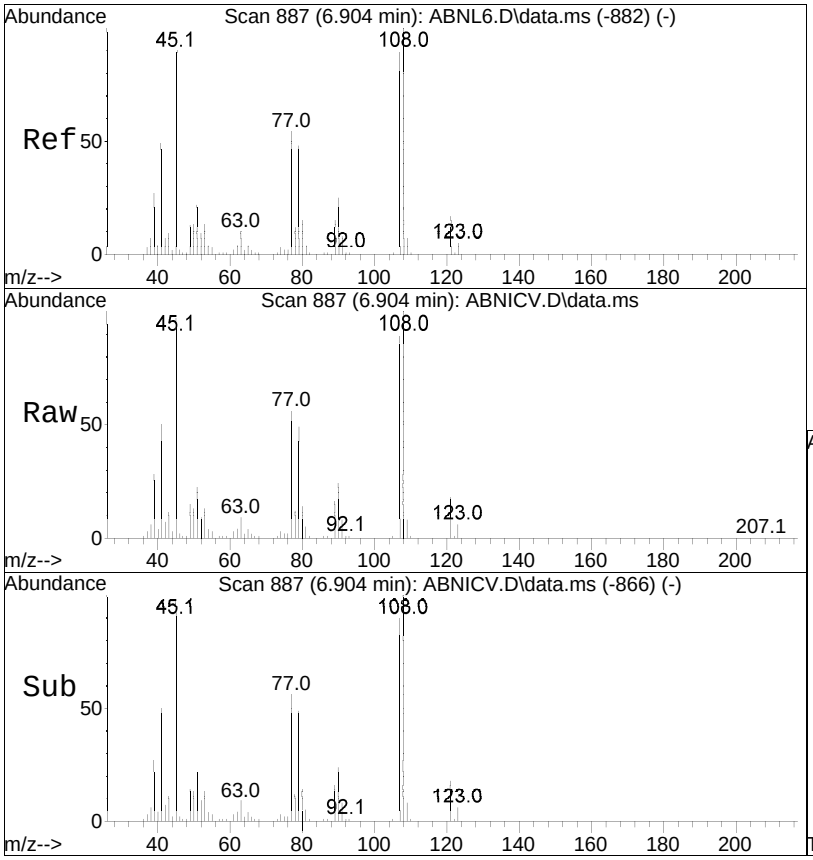


#14
Bis(2-chloroisopropyl)ether
Concen: 5.34 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 45 Resp: 104198

Ion	Ratio	Lower	Upper
45	100		
121	21.6	9.8	14.6#
77	43.0	6.1	9.1#

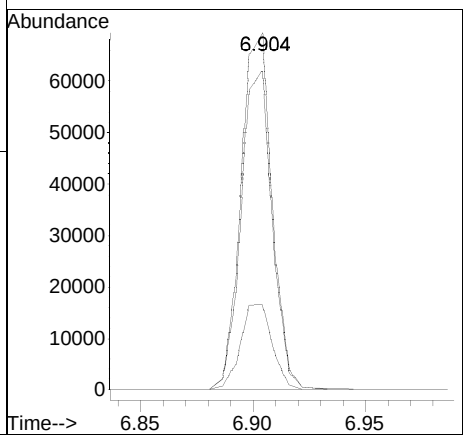


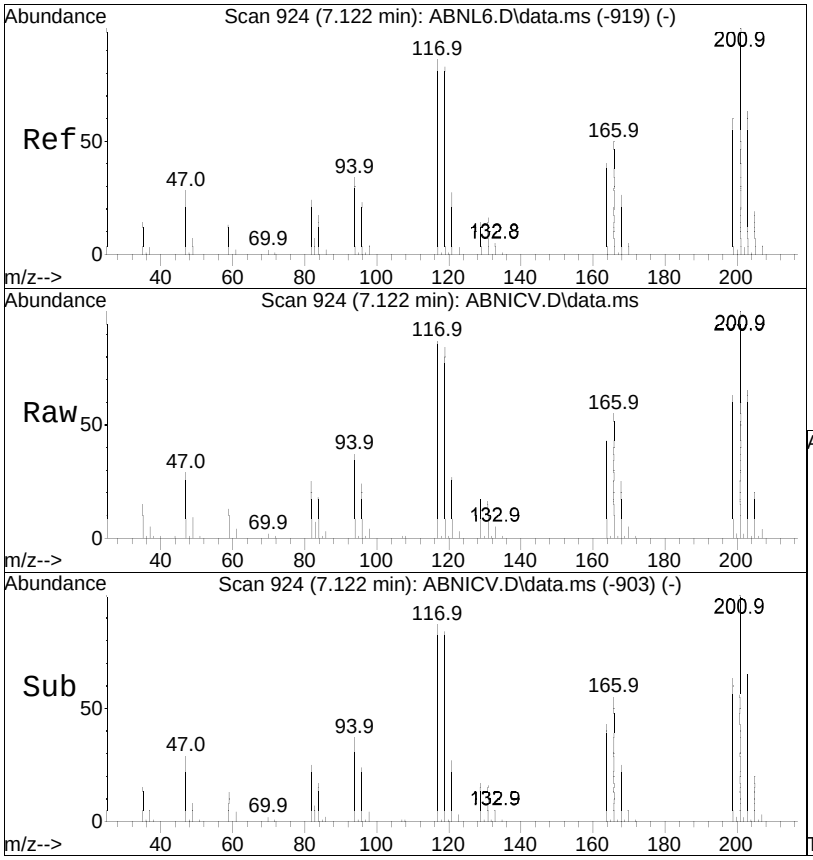


#15
2-Methylphenol
Concen: 5.38 ug/ml
RT: 6.904 min Scan# 887
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 66691

Ion	Ratio	Lower	Upper
108	100		
107	89.0	70.7	106.1
90	24.3	18.7	28.1

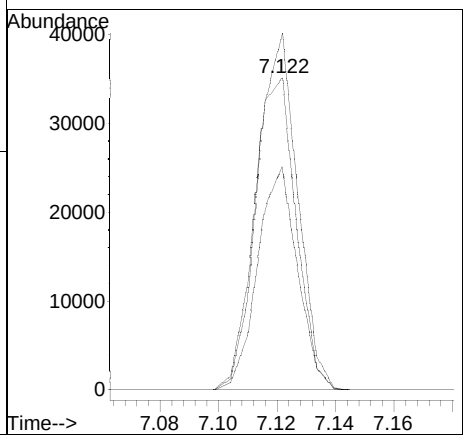


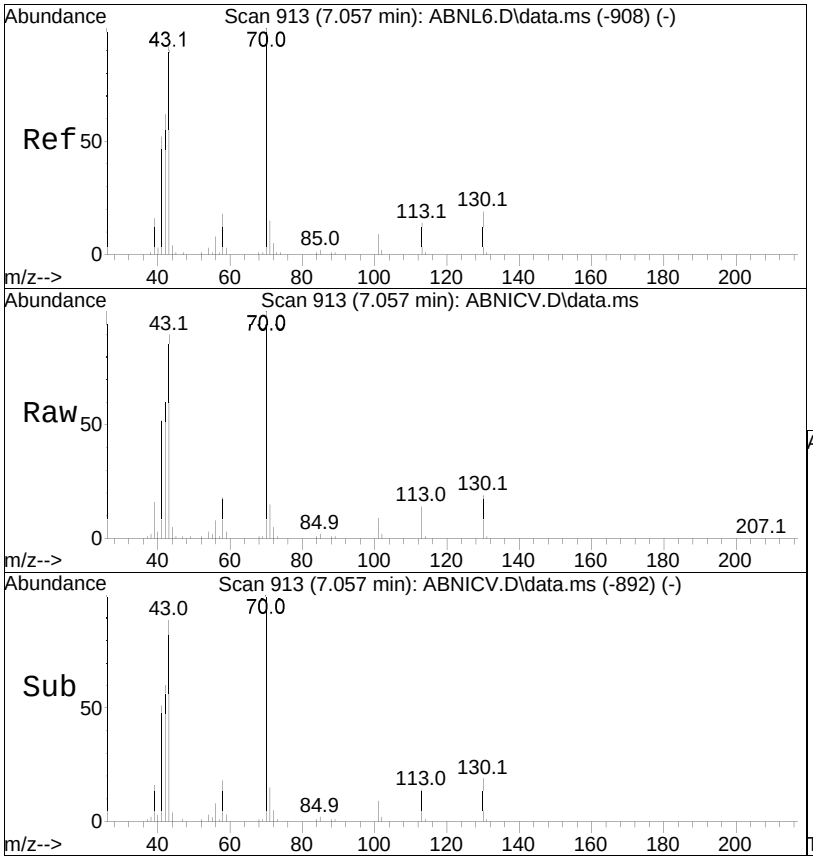


#16
Hexachloroethane
Concen: 5.34 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:117 Resp: 34991

Ion	Ratio	Lower	Upper
117	100		
201	109.1	58.6	87.8#
199	67.7	36.9	55.3#

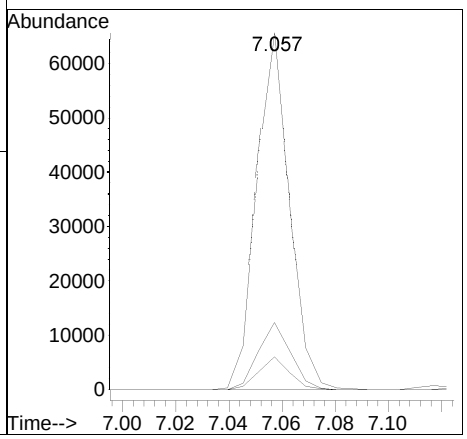


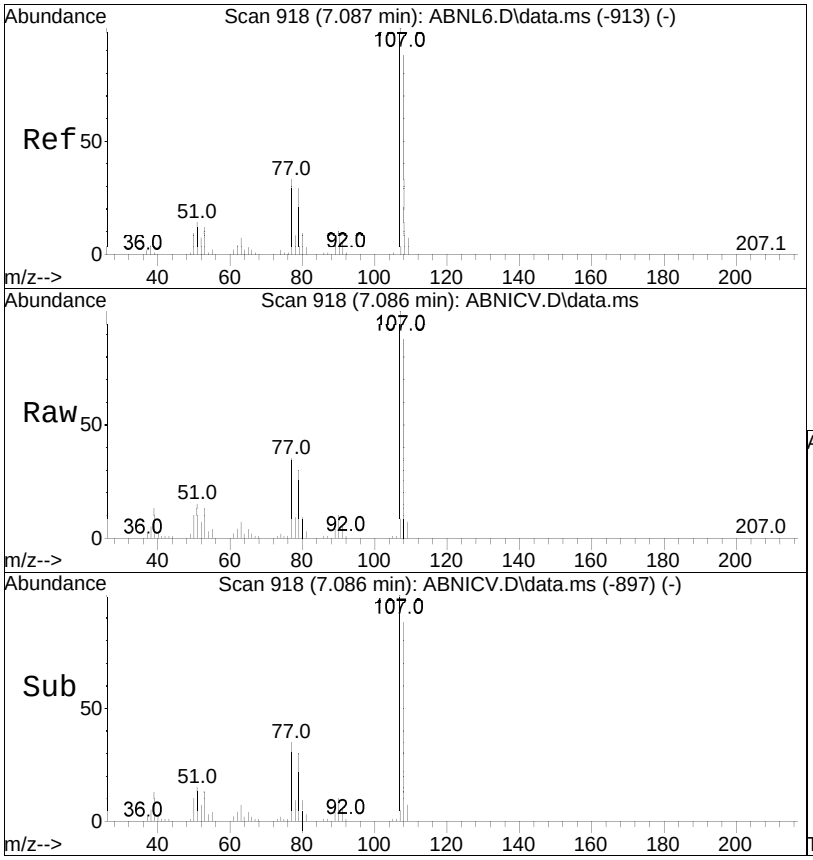


#17
n-Nitrosodi-n-propylamine
Concen: 5.33 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 70 Resp: 56436

Ion	Ratio	Lower	Upper
70	100		
130	18.5	18.2	27.4
101	8.7	7.8	11.8

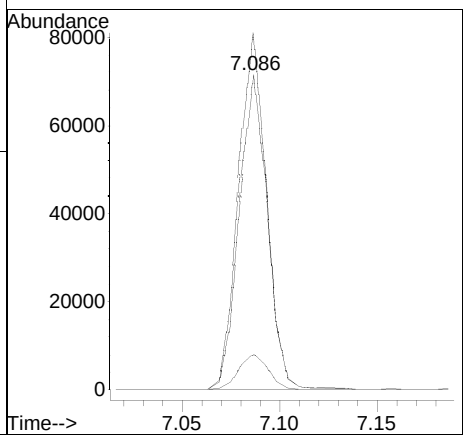


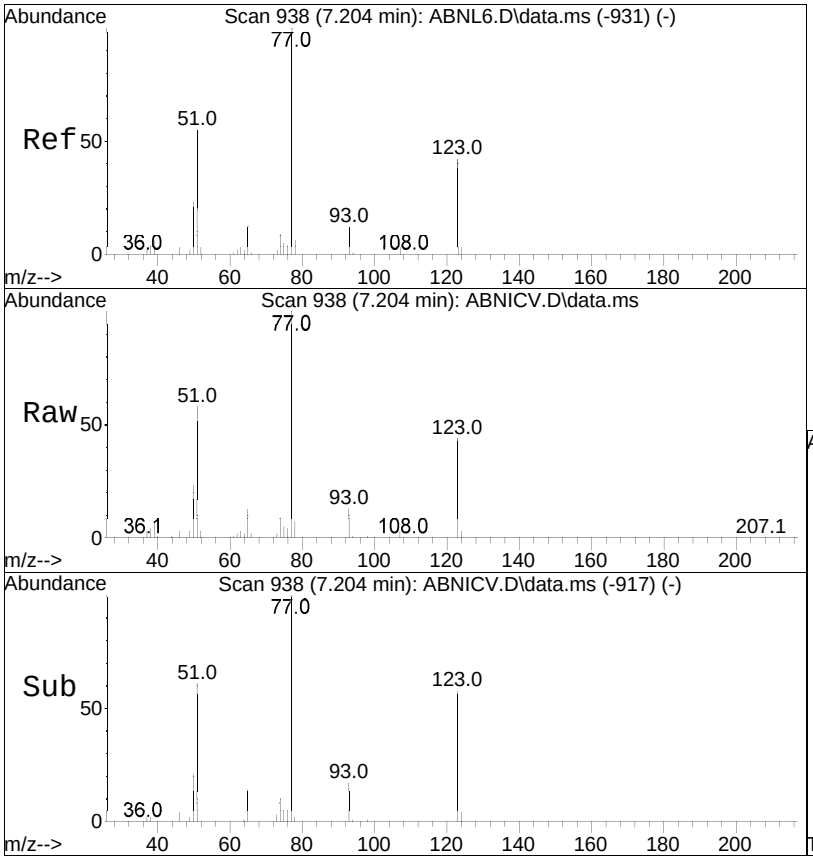


#18
3-Methylphenol/4-Methylphenol
Concen: 5.48 ug/ml
RT: 7.086 min Scan# 918
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:108 Resp: 71562

Ion	Ratio	Lower	Upper
108	100		
107	113.0	88.6	132.8
90	11.6	8.8	13.2

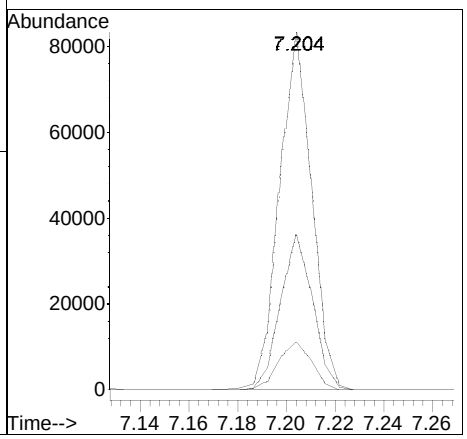


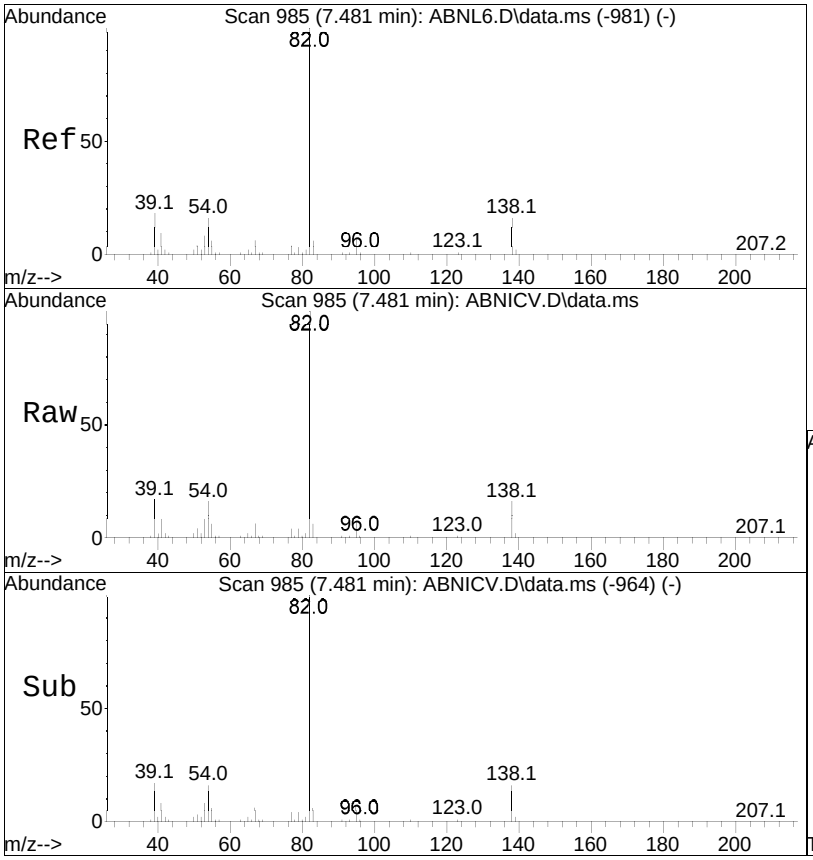


#20
Nitrobenzene
Concen: 5.27 ug/ml
RT: 7.204 min Scan# 938
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 75830

Ion	Ratio	Lower	Upper
77	100		
123	43.6	36.3	54.5
65	14.1	11.6	17.4

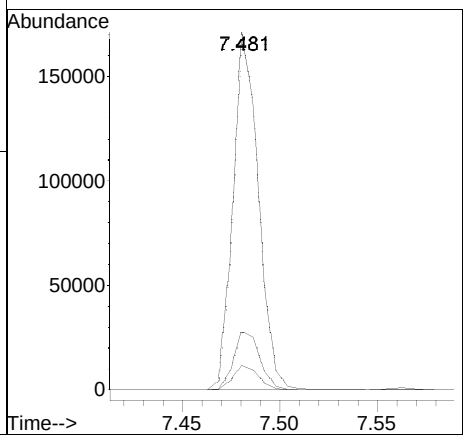


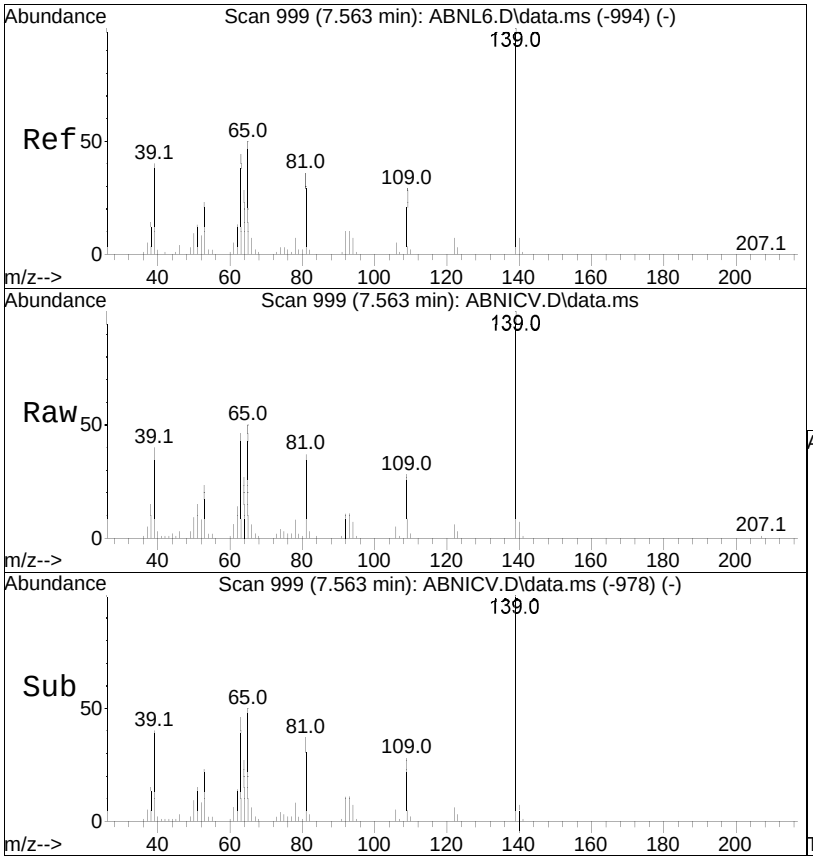


#21
Isophorone
Concen: 5.47 ug/ml
RT: 7.481 min Scan# 985
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 82 Resp: 152062

Ion	Ratio	Lower	Upper
82	100		
138	16.9	14.7	22.1
95	6.9	5.2	7.8

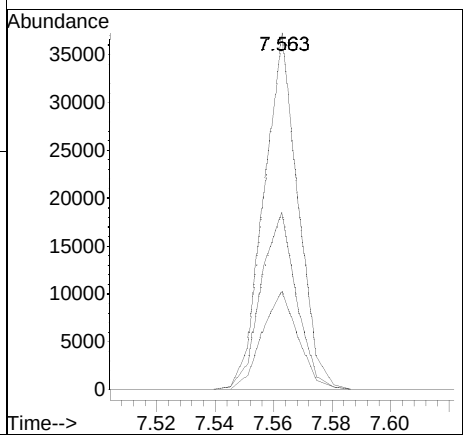


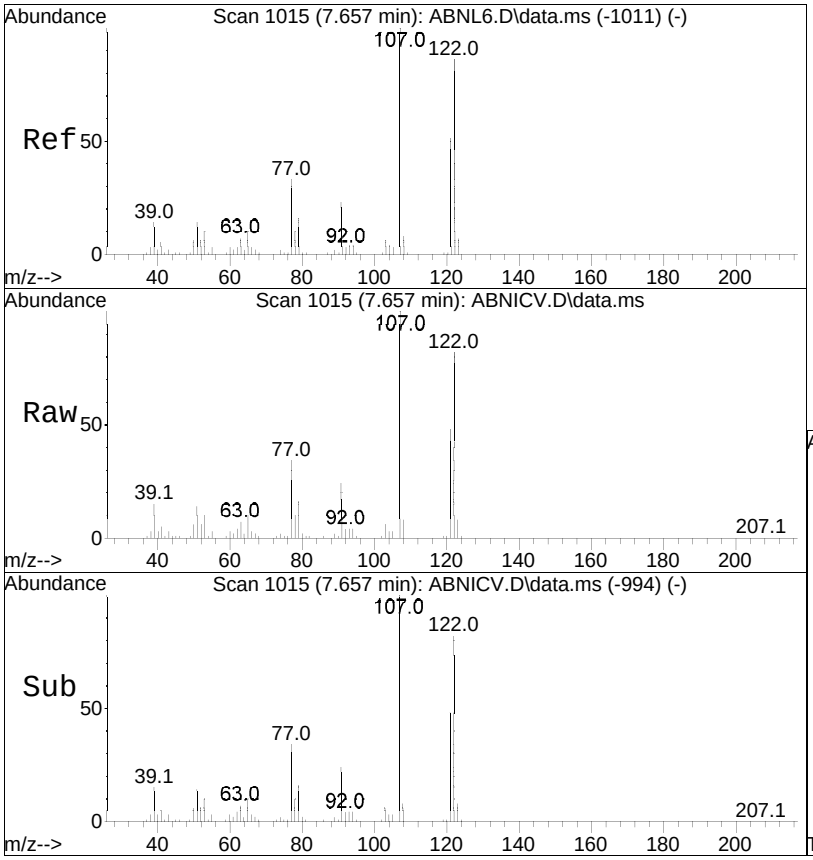


#22
2-Nitrophenol
Concen: 4.68 ug/ml
RT: 7.563 min Scan# 999
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:139 Resp: 30029

Ion	Ratio	Lower	Upper
139	100		
109	29.3	19.4	29.0#
65	51.9	46.1	69.1

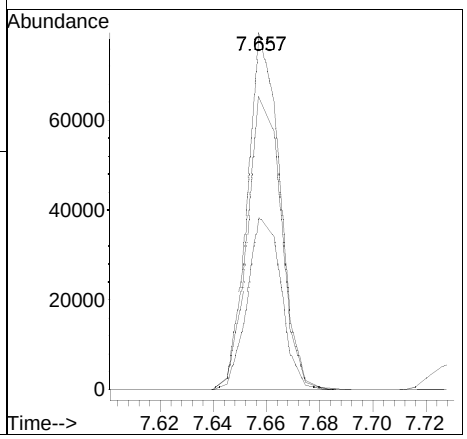


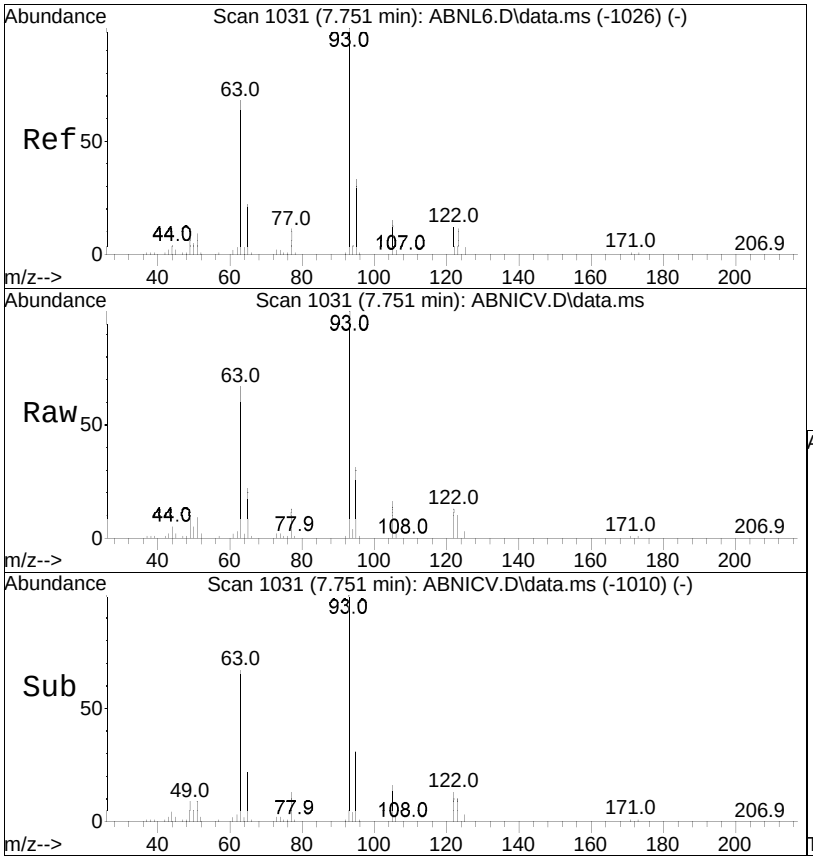


#23
2,4-Dimethylphenol
Concen: 5.15 ug/ml
RT: 7.657 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 67410

Ion	Ratio	Lower	Upper
107	100		
121	50.6	40.0	60.0
122	85.3	70.2	105.4

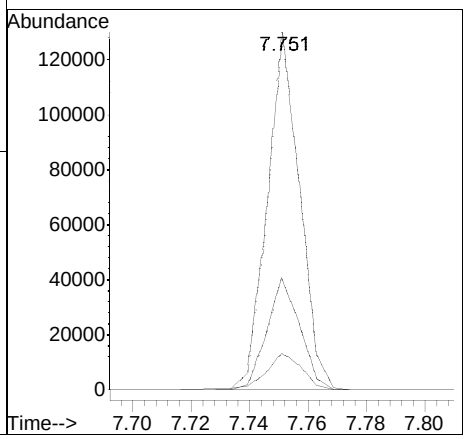


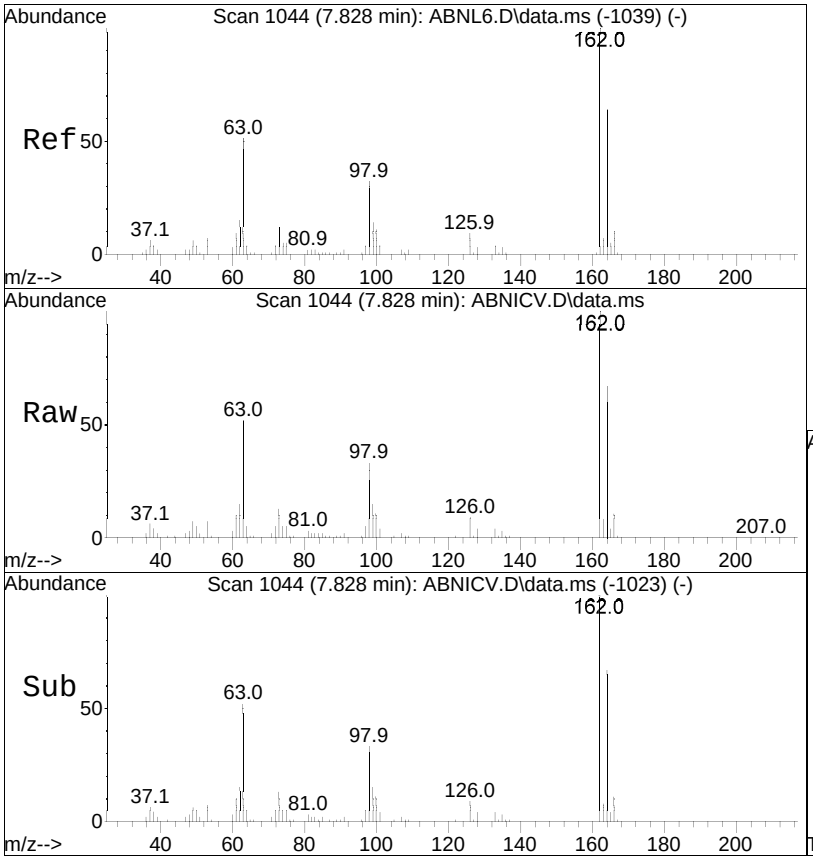


#24
Bis(2-chloroethoxy)methane
Concen: 5.45 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 93 Resp: 98786

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.8	38.8
123	11.7	10.1	15.1

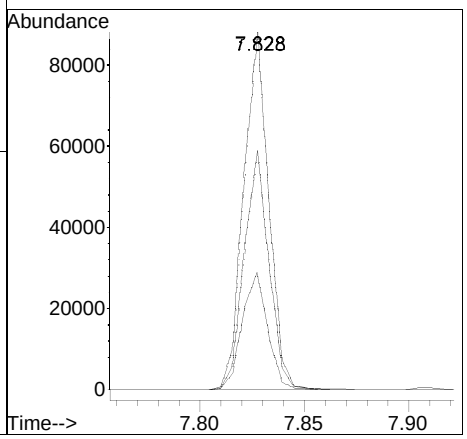


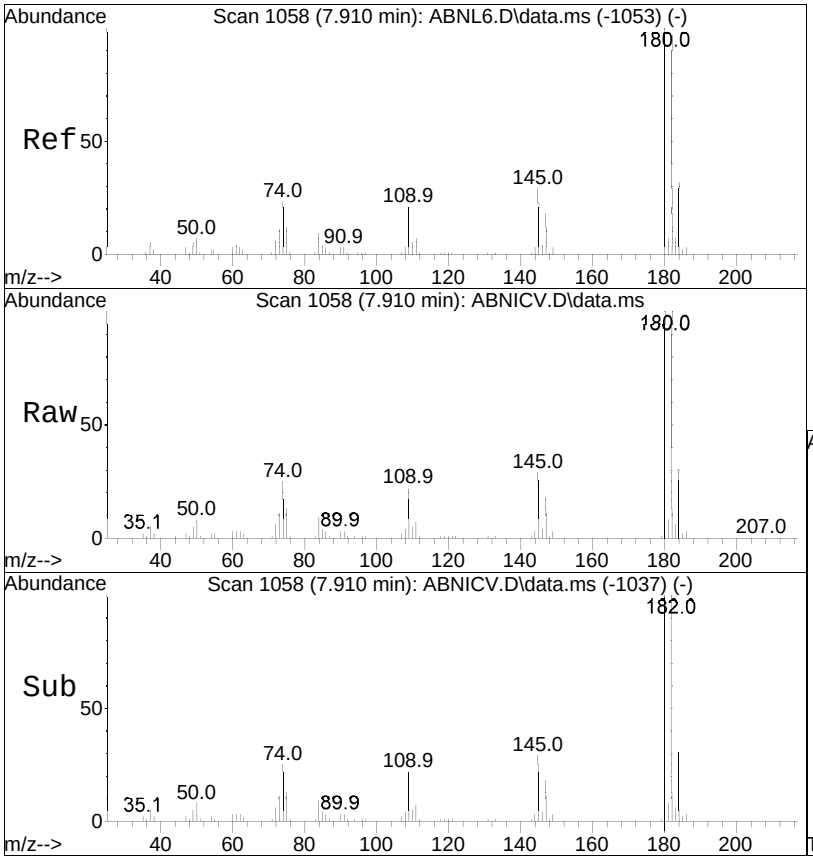


#25
2,4-Dichlorophenol
Concen: 5.52 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 72592

Ion	Ratio	Lower	Upper
162	100		
164	66.1	51.0	76.4
98	33.5	32.2	48.2

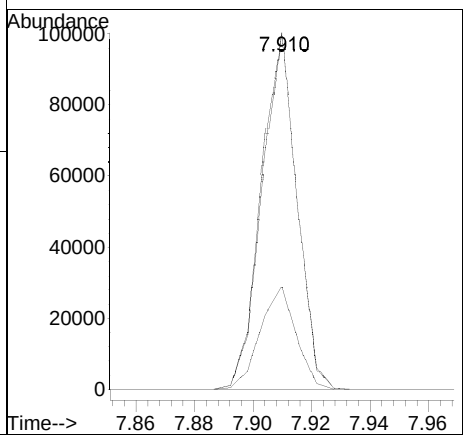


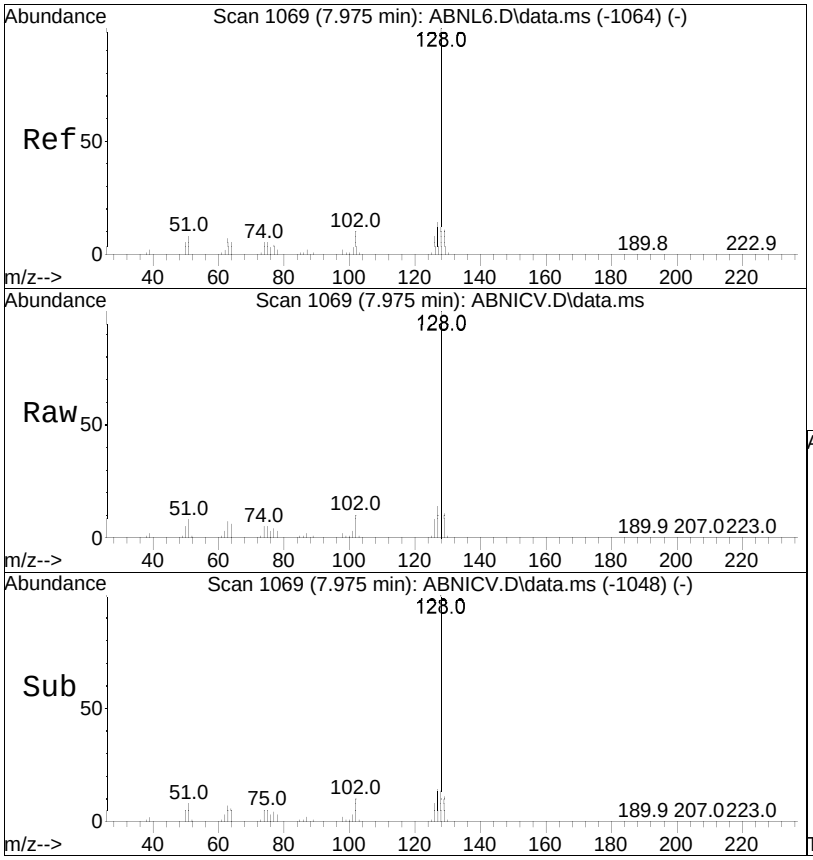


#26
1,2,4-Trichlorobenzene
Concen: 5.35 ug/ml
RT: 7.910 min Scan# 1058
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:180 Resp: 84896

Ion	Ratio	Lower	Upper
180	100		
182	97.4	76.0	114.0
145	29.0	25.7	38.5

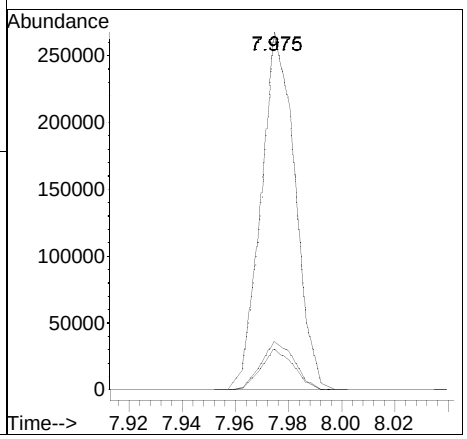


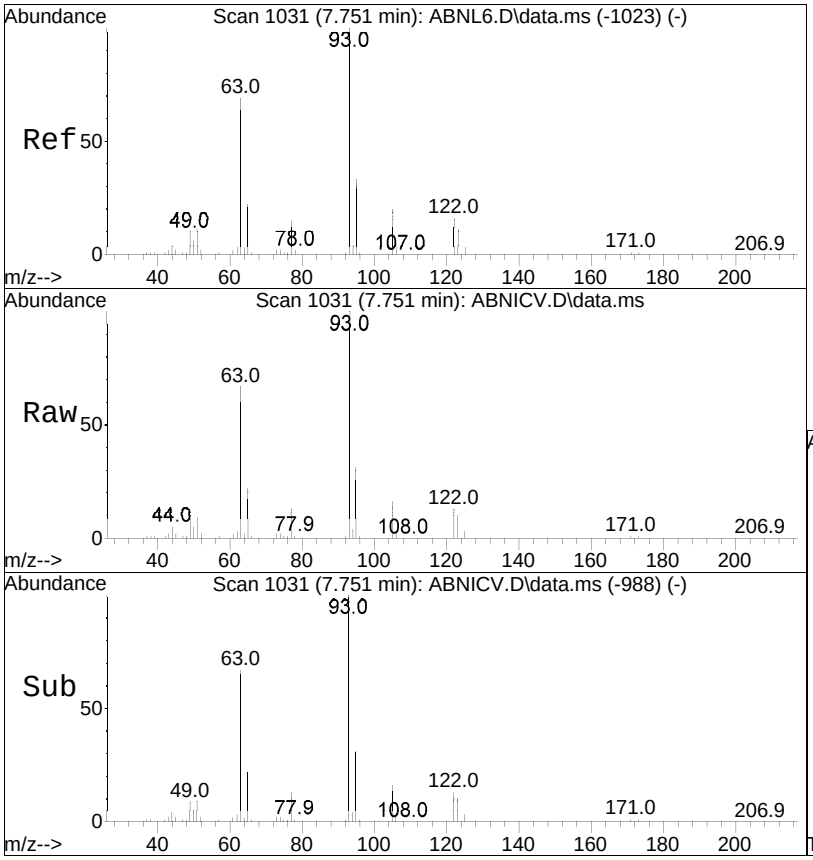


#35
Naphthalene
Concen: 5.22 ug/ml
RT: 7.975 min Scan# 1069
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:128 Resp: 234099

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.6	10.3	15.5

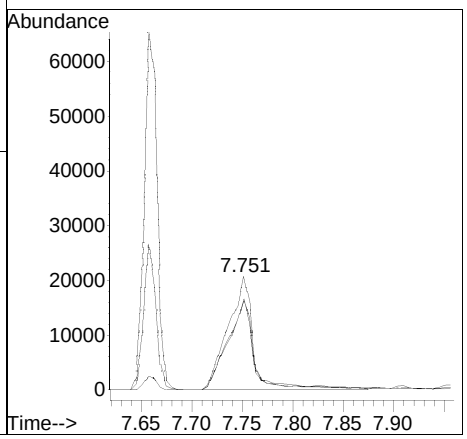


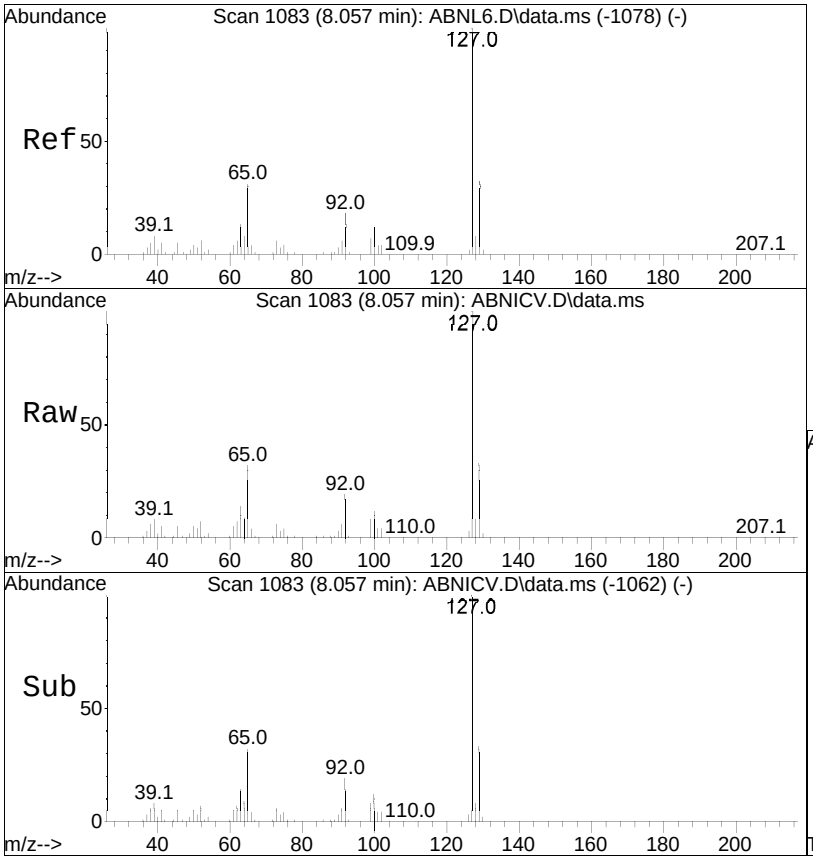


#36
Benzoic Acid
Concen: 4.82 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:105 Resp: 37692

Ion	Ratio	Lower	Upper
105	100		
122	80.2	59.9	89.9
77	75.3	60.1	90.1

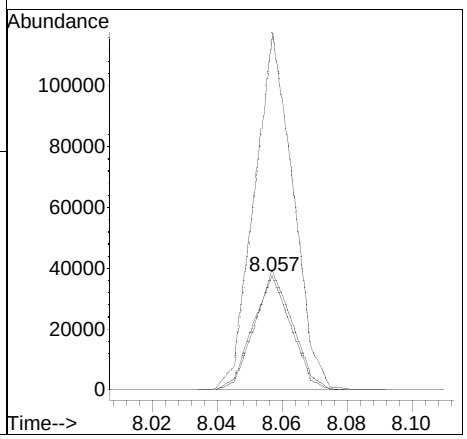


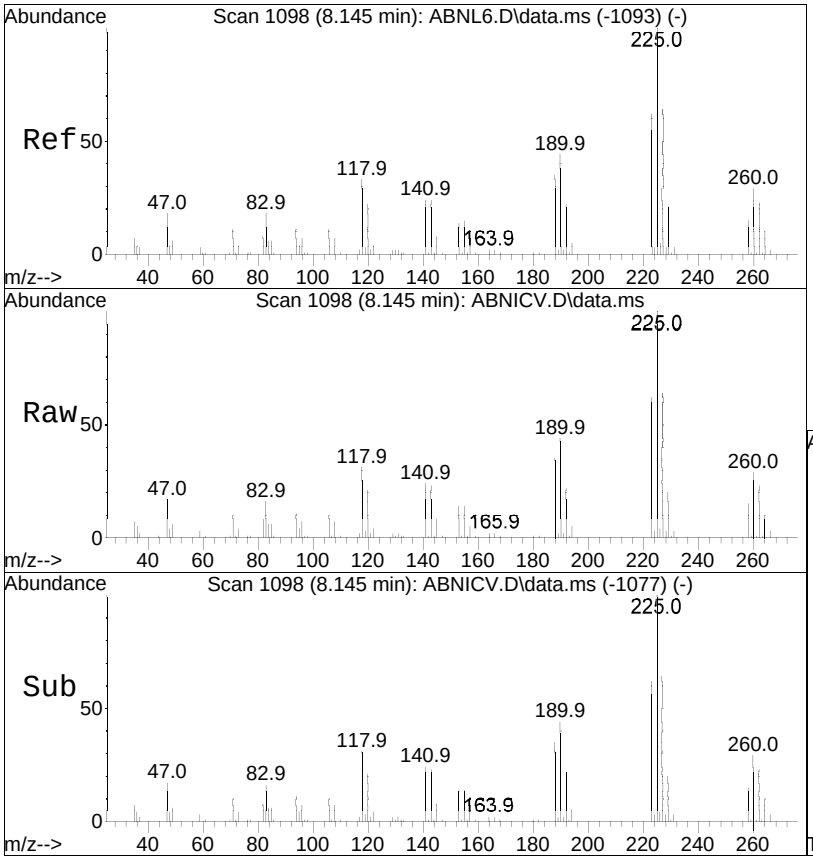


#37
4-Chloroaniline
Concen: 5.40 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 30505

Ion	Ratio	Lower	Upper
65	100		
127	316.4	237.6	356.4
129	103.0	76.3	114.5

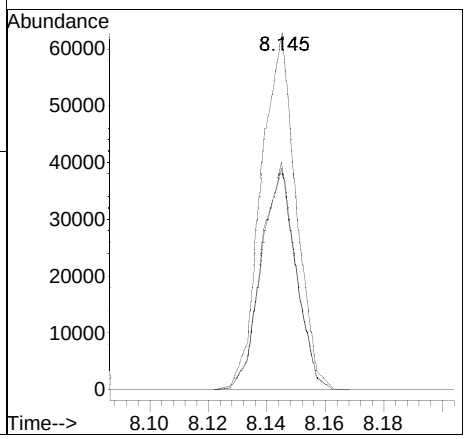


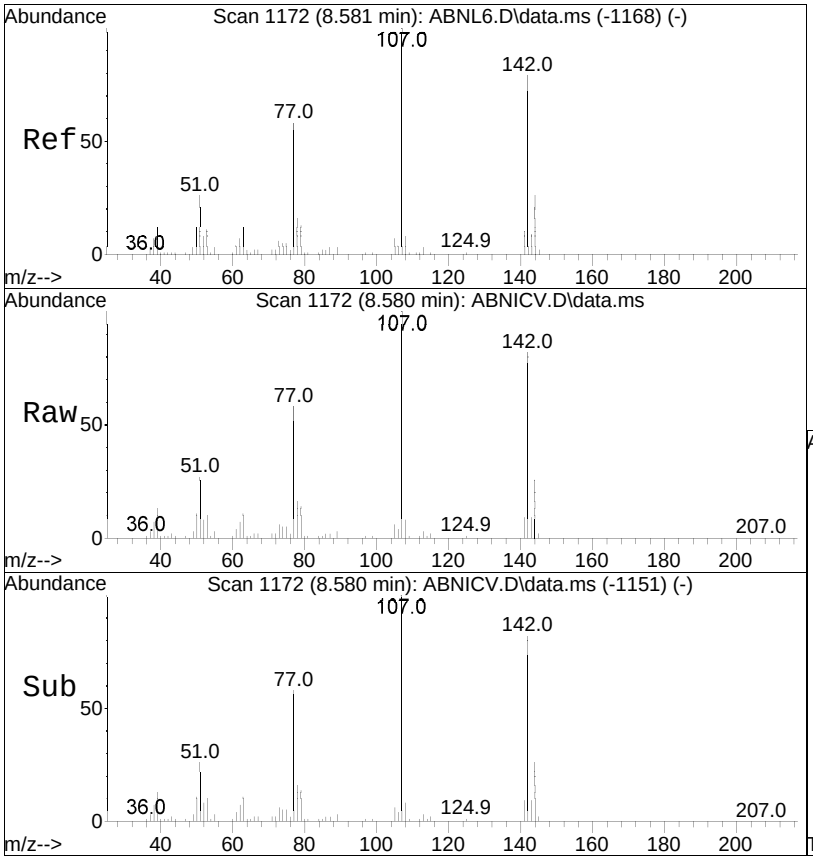


#38
Hexachlorobutadiene
Concen: 5.46 ug/ml
RT: 8.145 min Scan# 1098
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:225 Resp: 51724

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	62.7	52.2	78.2

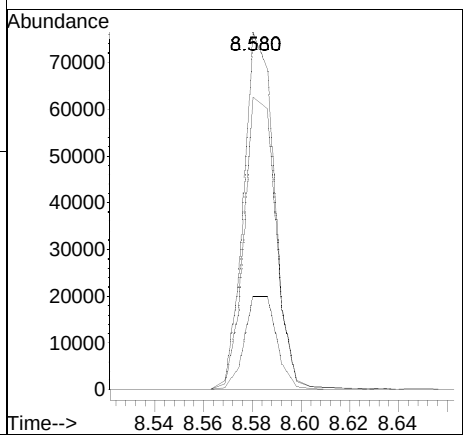


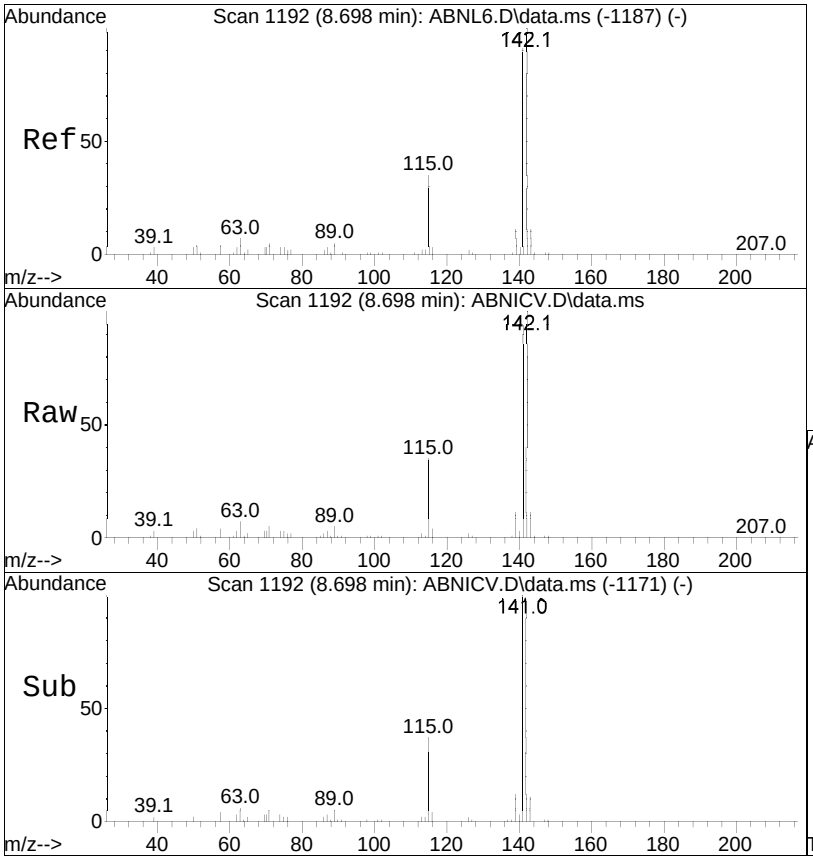


#39
p-Chloro-m-cresol
Concen: 5.45 ug/ml
RT: 8.580 min Scan# 1172
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:107 Resp: 66777

Ion	Ratio	Lower	Upper
107	100		
144	27.2	20.9	31.3
142	84.7	66.1	99.1

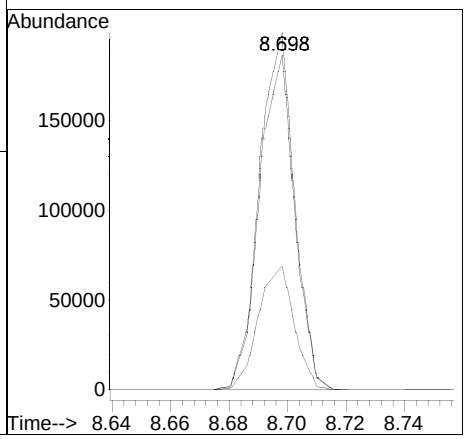


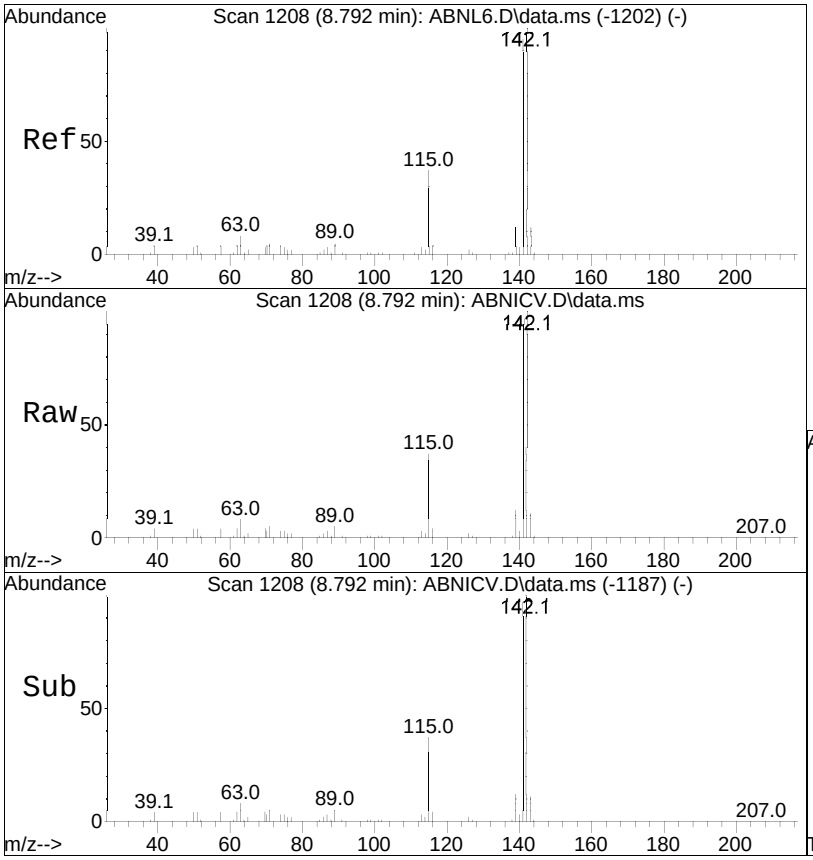


#40
2-Methylnaphthalene
Concen: 5.37 ug/ml
RT: 8.698 min Scan# 1192
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:142 Resp: 166439

Ion	Ratio	Lower	Upper
142	100		
141	93.2	69.6	104.4
115	35.6	26.6	40.0

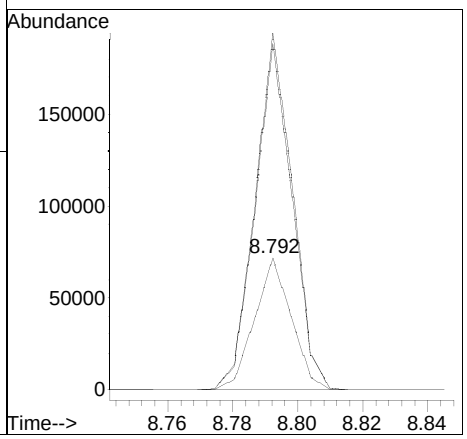


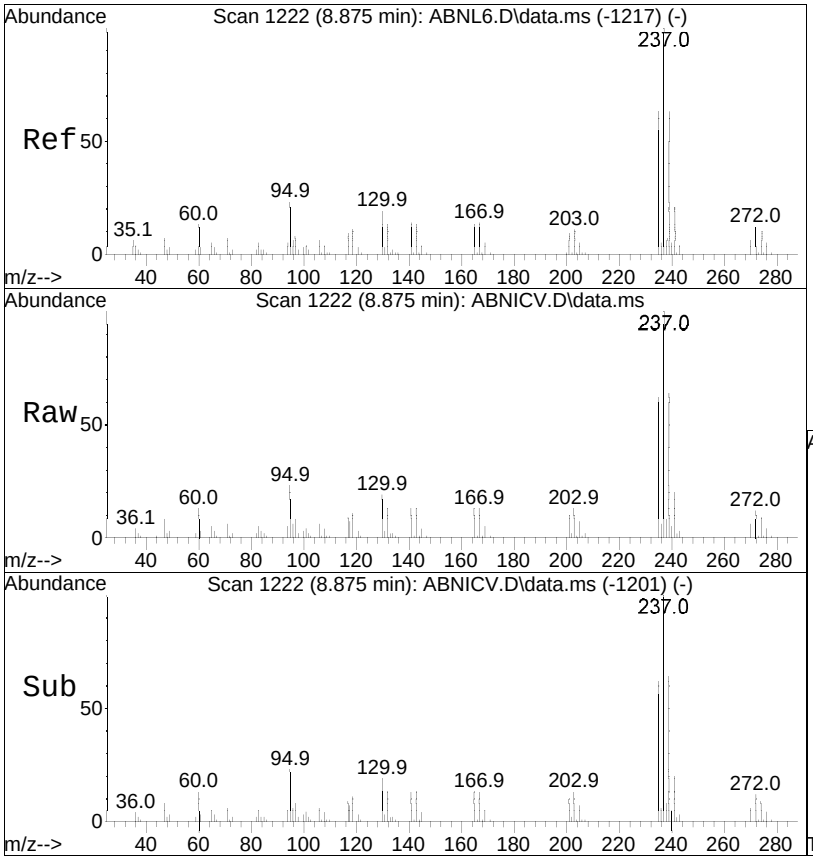


#41
1-Methylnaphthalene
Concen: 5.35 ug/ml
RT: 8.792 min Scan# 1208
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:115 Resp: 56538

Ion	Ratio	Lower	Upper
115	100		
141	261.8	207.8	311.6
142	273.1	226.8	340.2

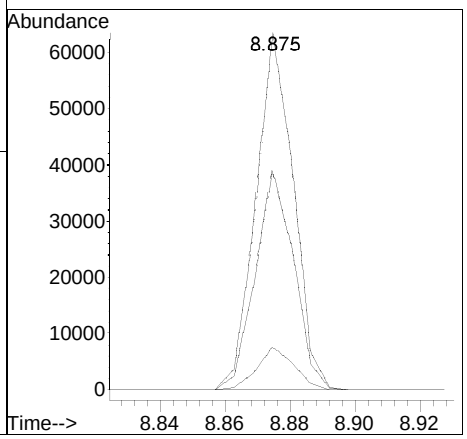


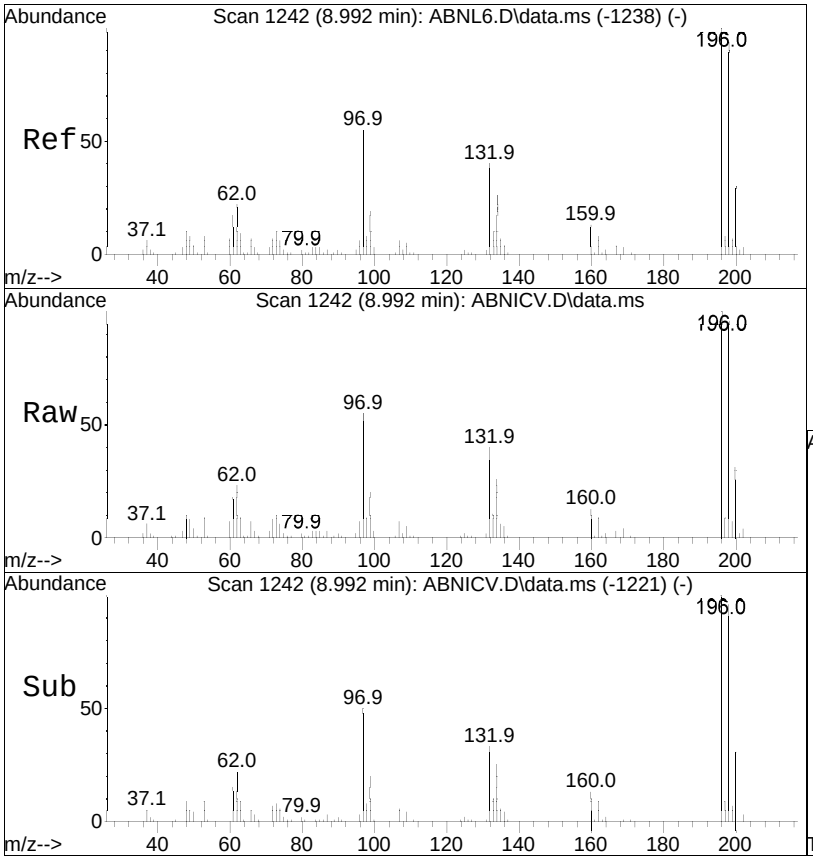


#42
Hexachlorocyclopentadiene
Concen: 5.48 ug/ml
RT: 8.875 min Scan# 1222
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:237 Resp: 50620

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	11.9	9.8	14.6

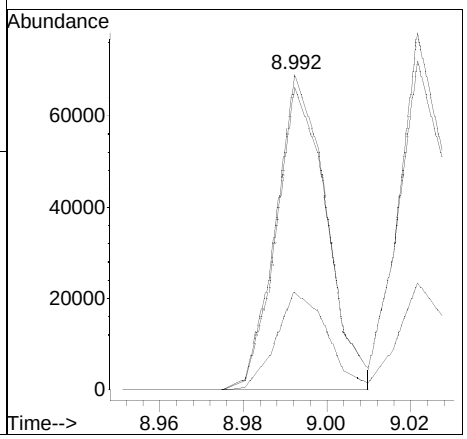


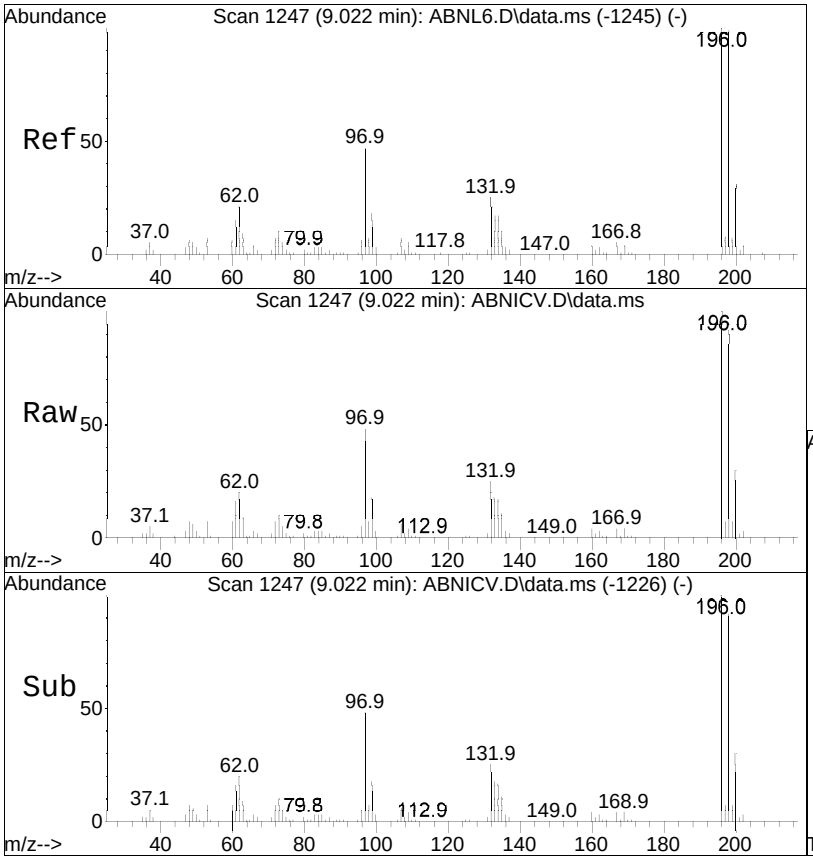


#43
2,4,6-Trichlorophenol
Concen: 5.49 ug/ml
RT: 8.992 min Scan# 1242
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 58438

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.5	116.3
200	31.5	23.8	35.6

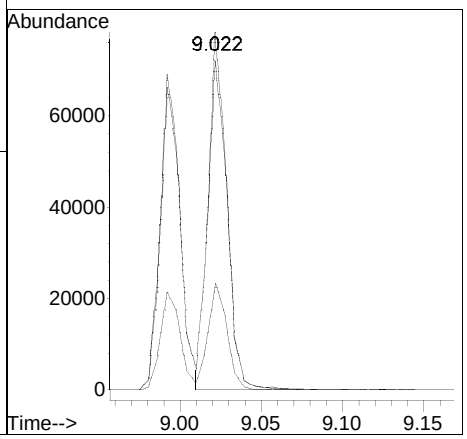


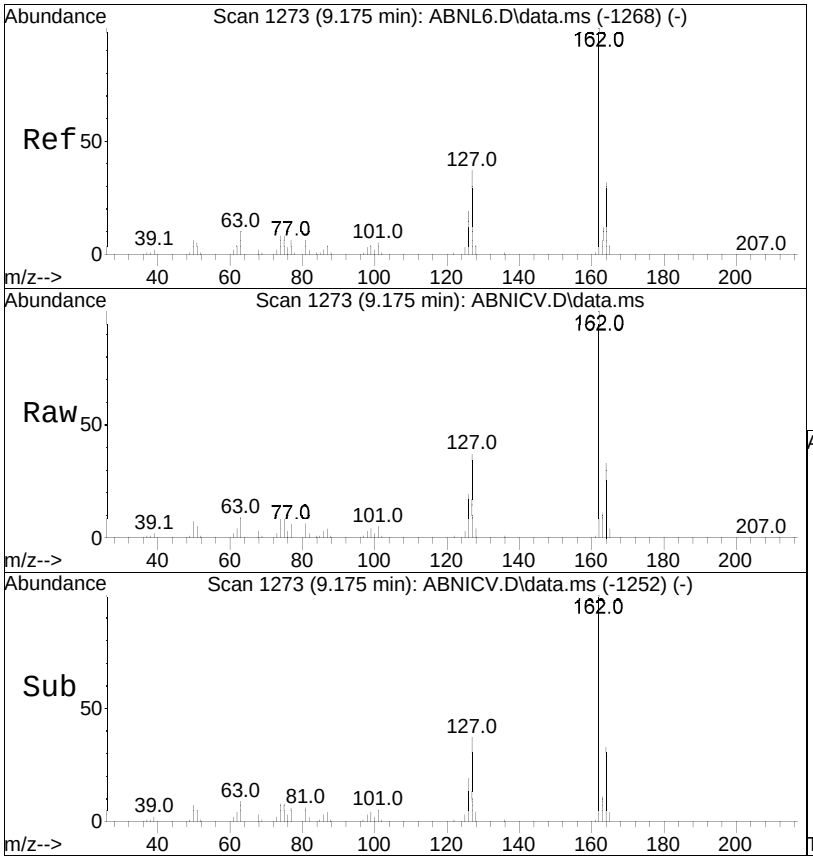


#44
2,4,5-Trichlorophenol
Concen: 5.54 ug/ml
RT: 9.022 min Scan# 1247
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:196 Resp: 62619

Ion	Ratio	Lower	Upper
196	100		
200	30.1	25.4	38.0
198	95.3	78.0	117.0

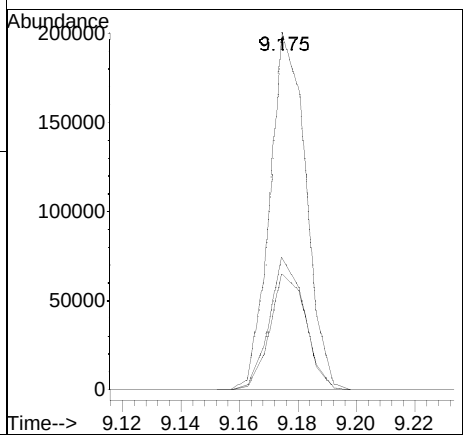


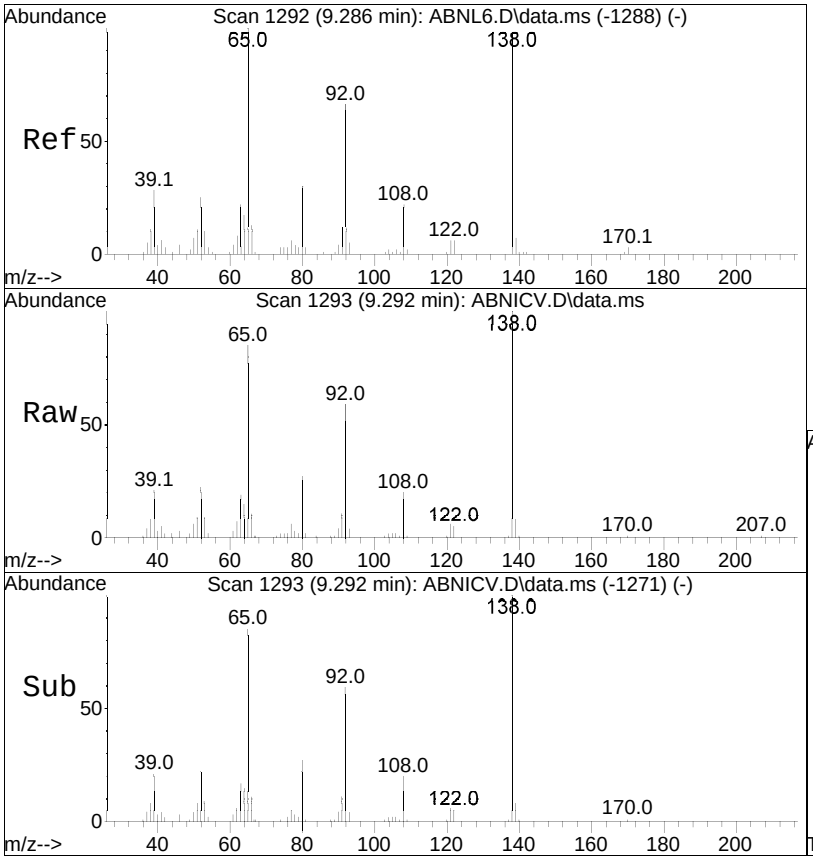


#46
2-Chloronaphthalene
Concen: 5.28 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:162 Resp: 170033

Ion	Ratio	Lower	Upper
162	100		
127	36.0	32.2	48.4
164	32.8	25.7	38.5

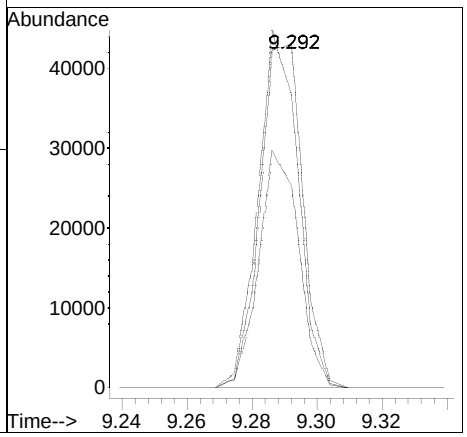


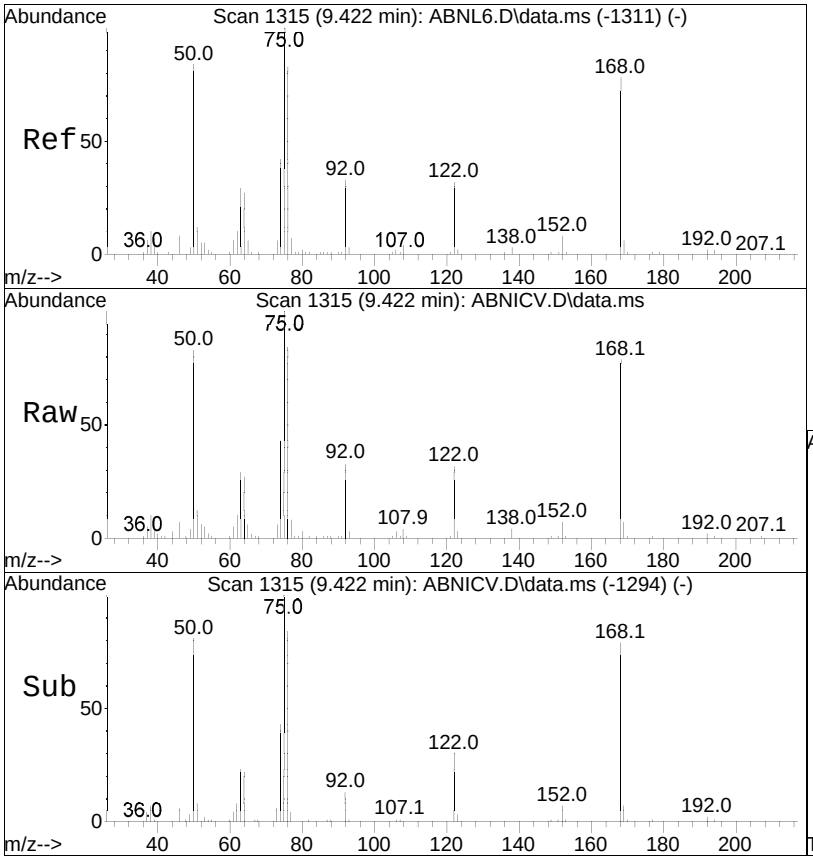


#47
2-Nitroaniline
Concen: 5.01 ug/ml
RT: 9.292 min Scan# 1293
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39012

Ion	Ratio	Lower	Upper
138	100		
92	64.9	53.5	80.3
65	96.8	86.3	129.5

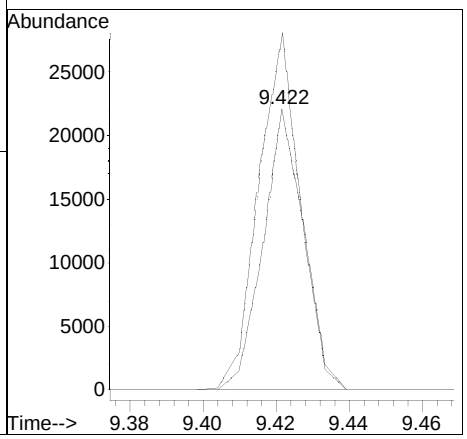


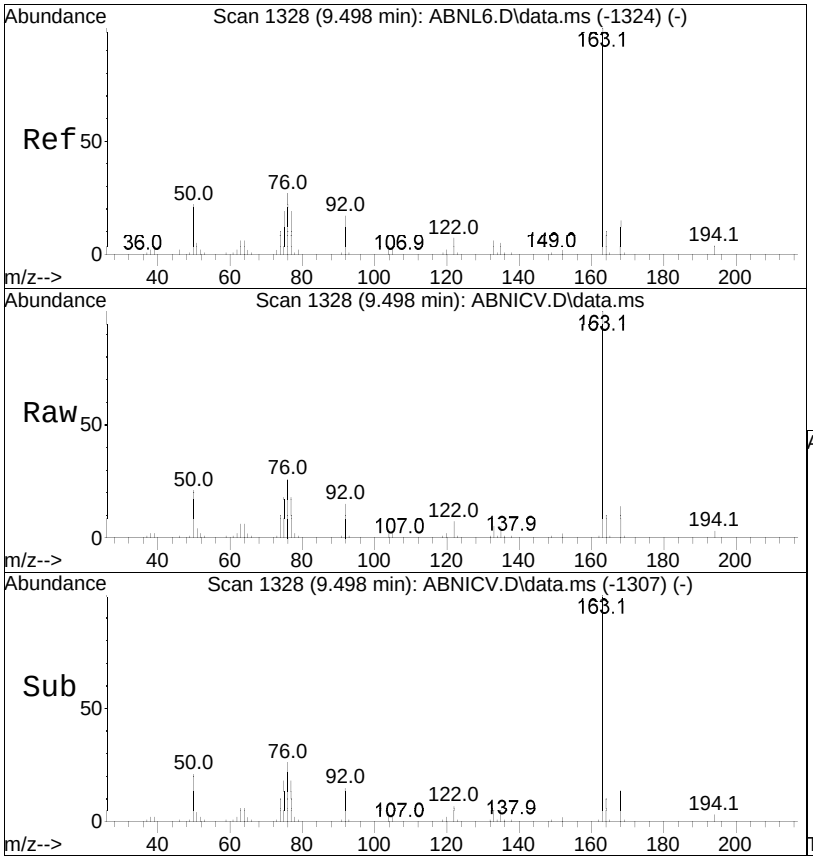


#48
1,4-Dinitrobenzene
Concen: 4.37 ug/ml
RT: 9.422 min Scan# 1315
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 17114

Ion	Ratio	Lower	Upper
168	100		
75	129.1	121.8	182.8

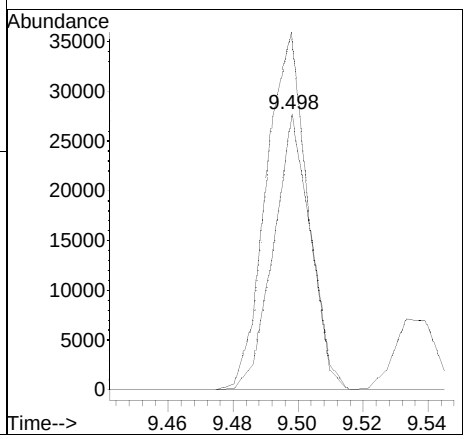


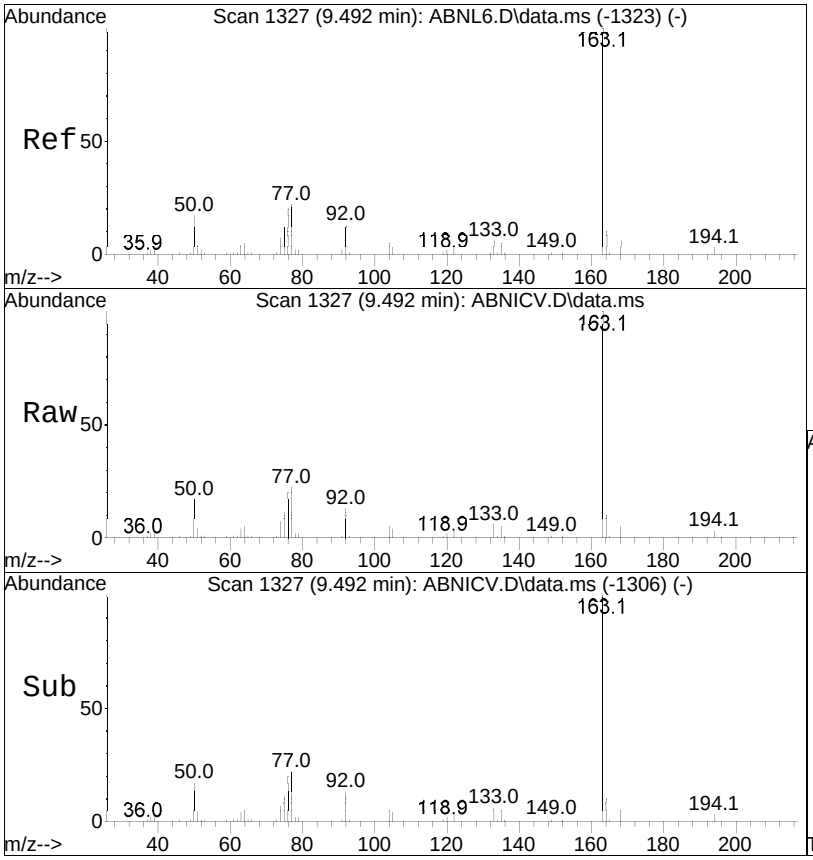


#49
1,3-Dinitrobenzene
Concen: 4.48 ug/ml
RT: 9.498 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 21913

Ion	Ratio	Lower	Upper
168	100		
75	142.2	22.7	34.1#

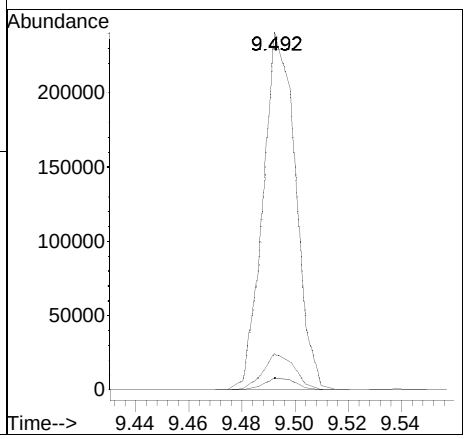


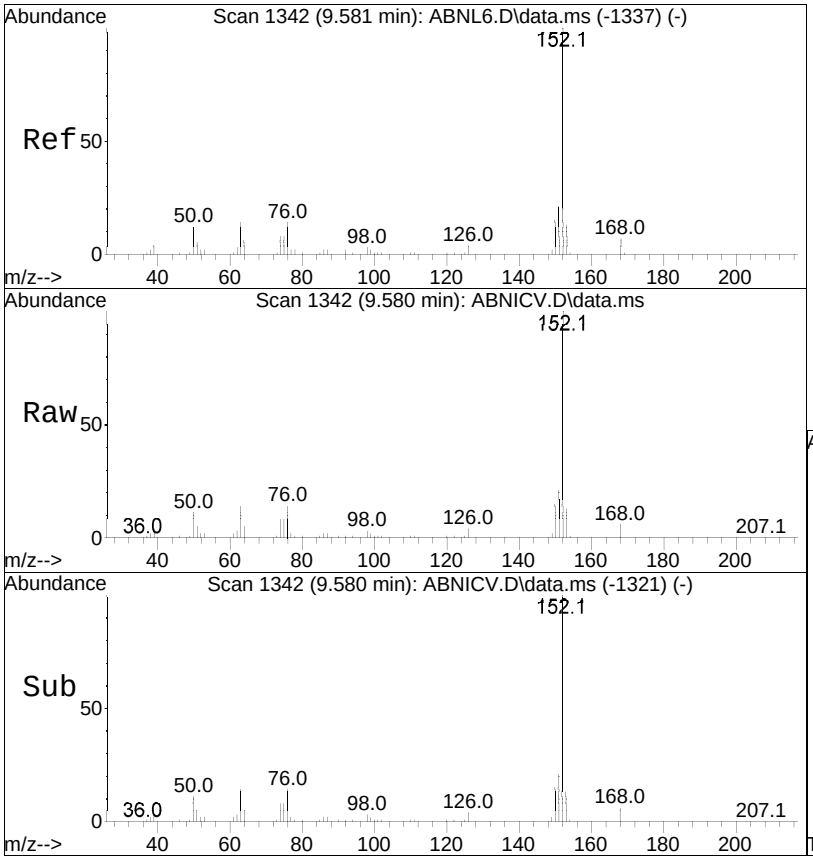


#50
Dimethyl phthalate
Concen: 5.37 ug/ml
RT: 9.492 min Scan# 1327
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:163 Resp: 202629

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	10.0	7.9	11.9

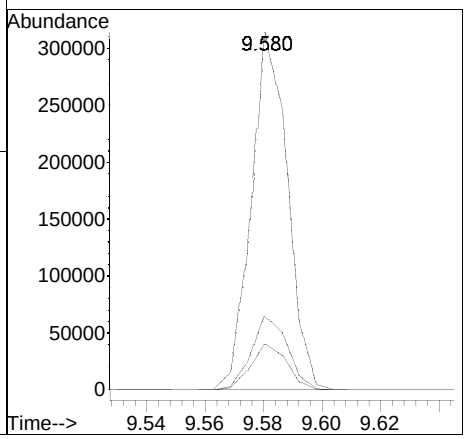


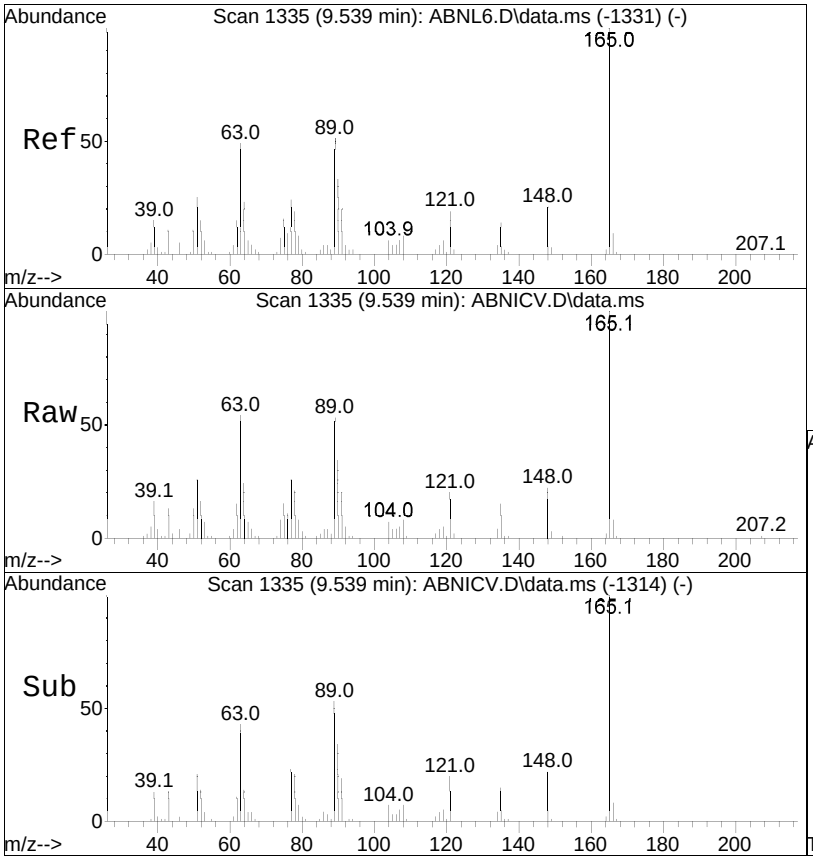


#51
Acenaphthylene
Concen: 5.51 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:152 Resp: 267479

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.6
153	12.9	10.5	15.7

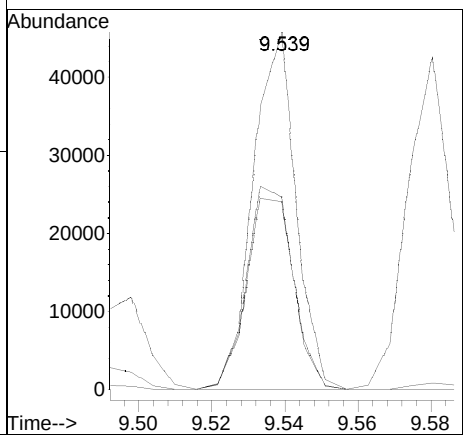


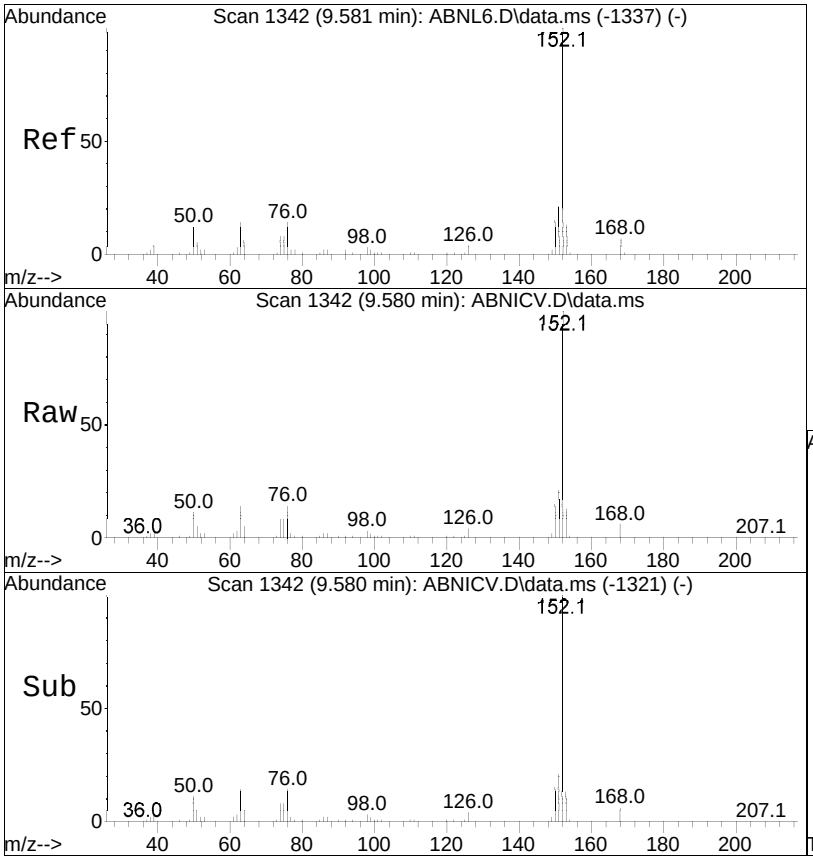


#52
2,6-Dinitrotoluene
Concen: 5.43 ug/ml
RT: 9.539 min Scan# 1335
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 37241

Ion	Ratio	Lower	Upper
165	100		
89	59.7	54.2	81.2
63	61.7	64.2	96.2#

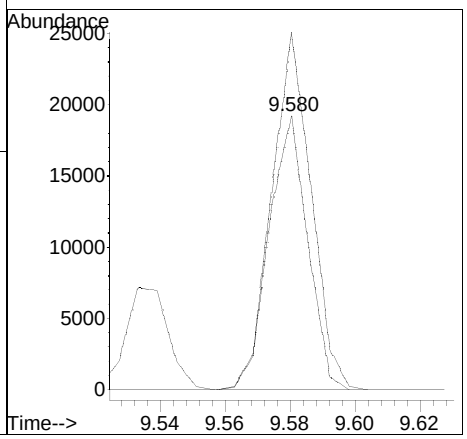


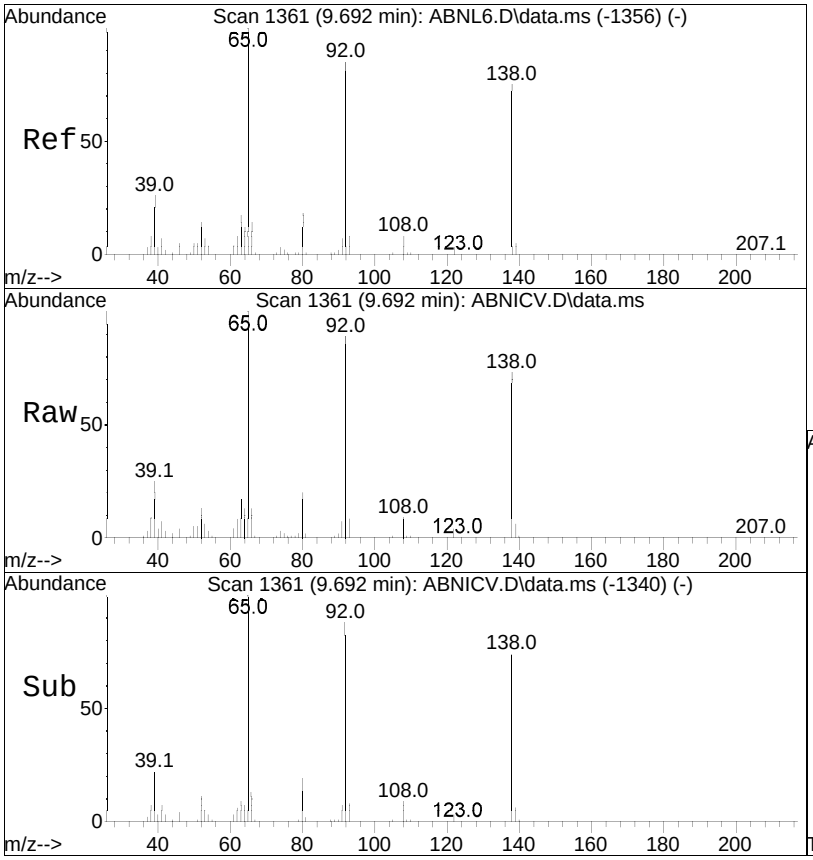


#53
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 9.580 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 15743

Ion	Ratio	Lower	Upper
168	100		
75	133.3	30.9	46.3#

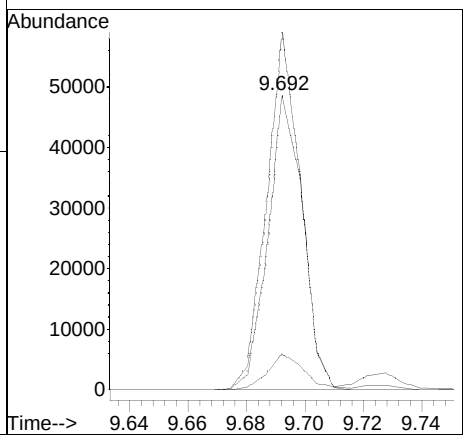


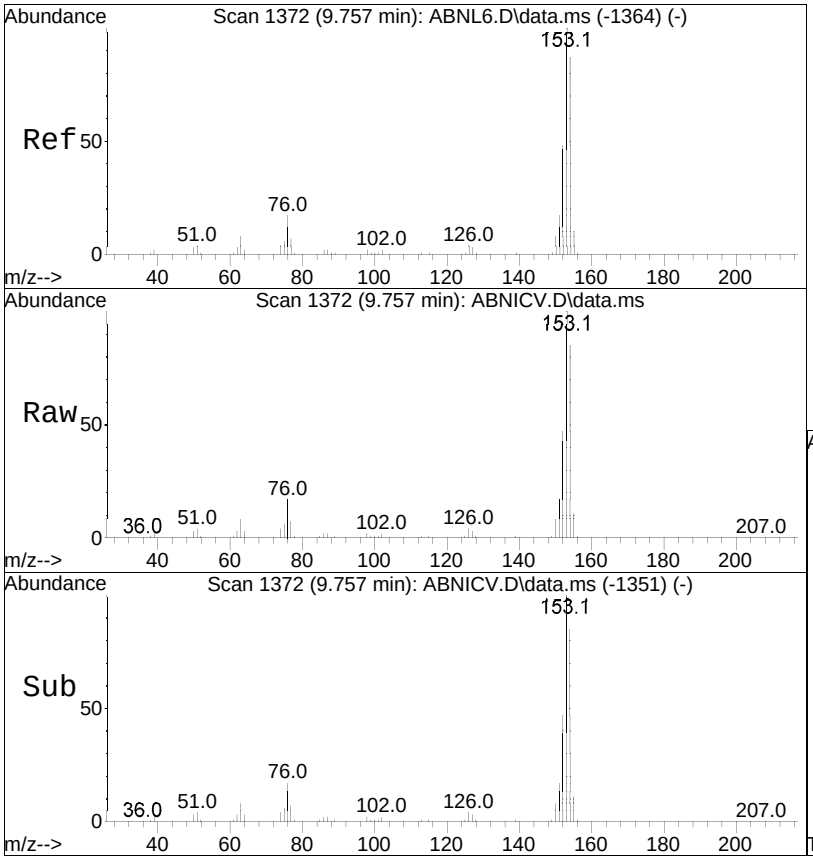


#63
3-Nitroaniline
Concen: 5.53 ug/ml
RT: 9.692 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 39753

Ion	Ratio	Lower	Upper
138	100		
92	118.5	93.4	140.2
108	12.8	9.5	14.3

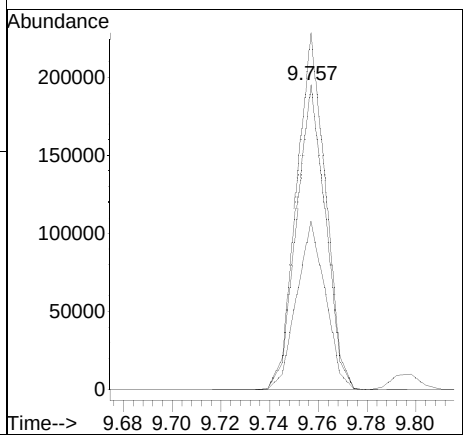


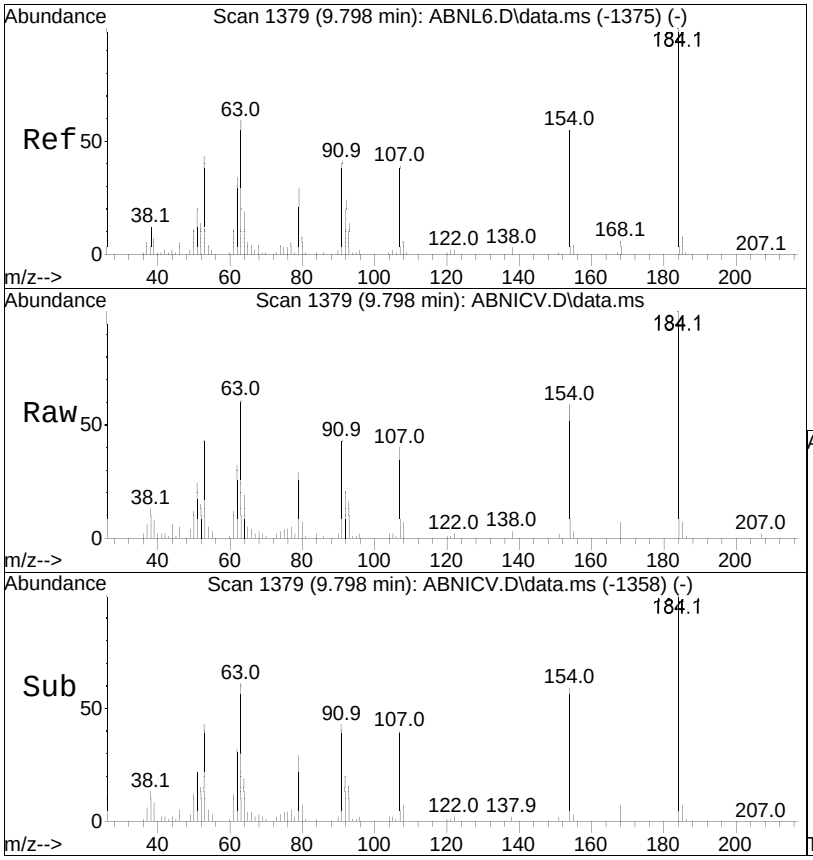


#64
Acenaphthene
Concen: 5.38 ug/ml
RT: 9.757 min Scan# 1372
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:154 Resp: 161236

Ion	Ratio	Lower	Upper
154	100		
153	116.6	85.3	127.9
152	55.3	41.4	62.0

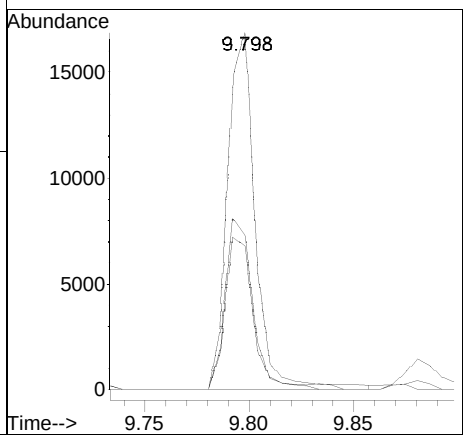


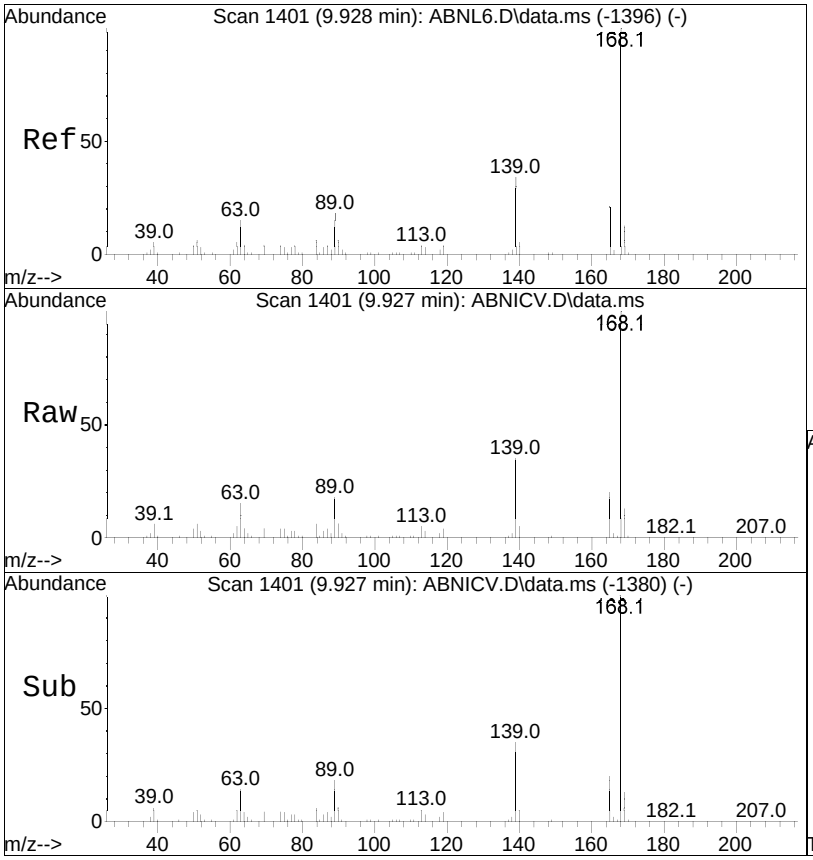


#65
2,4-Dinitrophenol
Concen: 4.21 ug/ml
RT: 9.798 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 15506

Ion	Ratio	Lower	Upper
184	100		
107	43.0	37.7	56.5
91	48.6	46.3	69.5

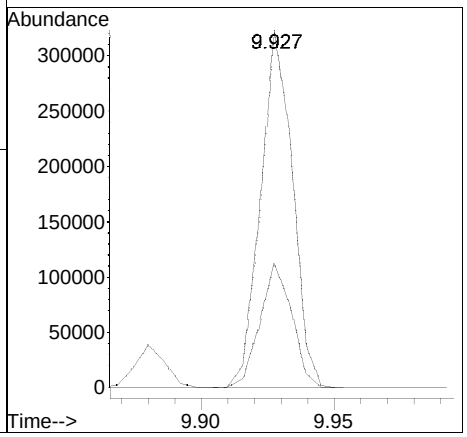


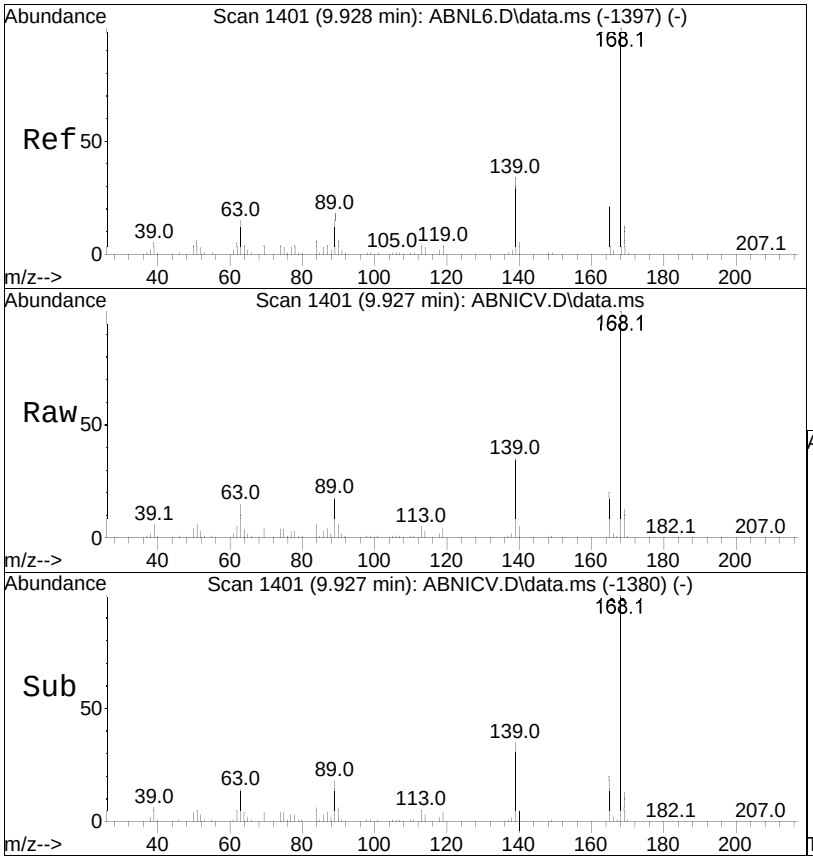


#66
Dibenzofuran
Concen: 5.47 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:168 Resp: 266500

Ion	Ratio	Lower	Upper
168	100		
139	35.1	31.4	47.2

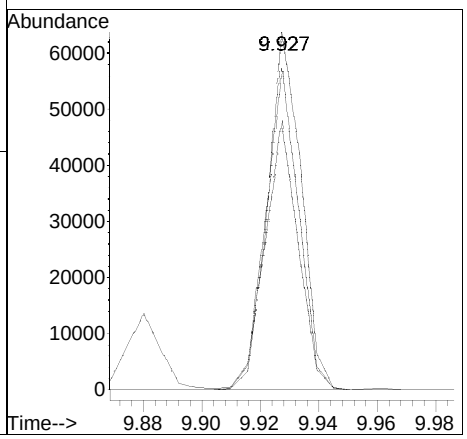


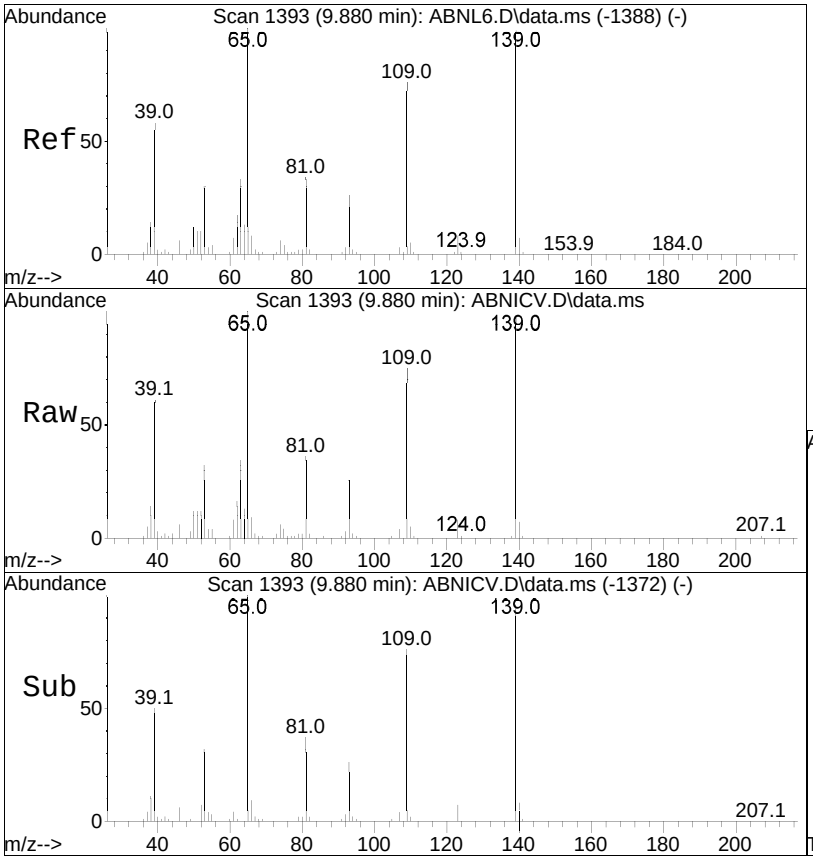


#67
2,4-Dinitrotoluene
Concen: 4.70 ug/ml
RT: 9.927 min Scan# 1401
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:165 Resp: 50041

Ion	Ratio	Lower	Upper
165	100		
89	88.8	72.0	108.0
63	75.3	52.7	79.1

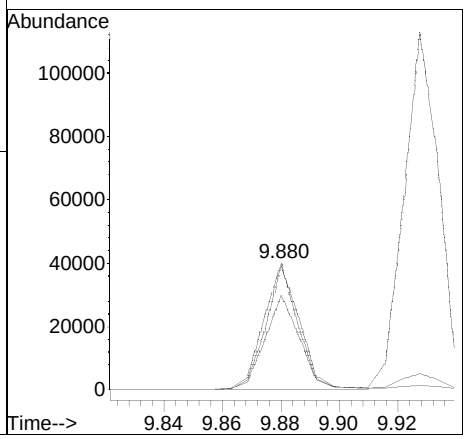


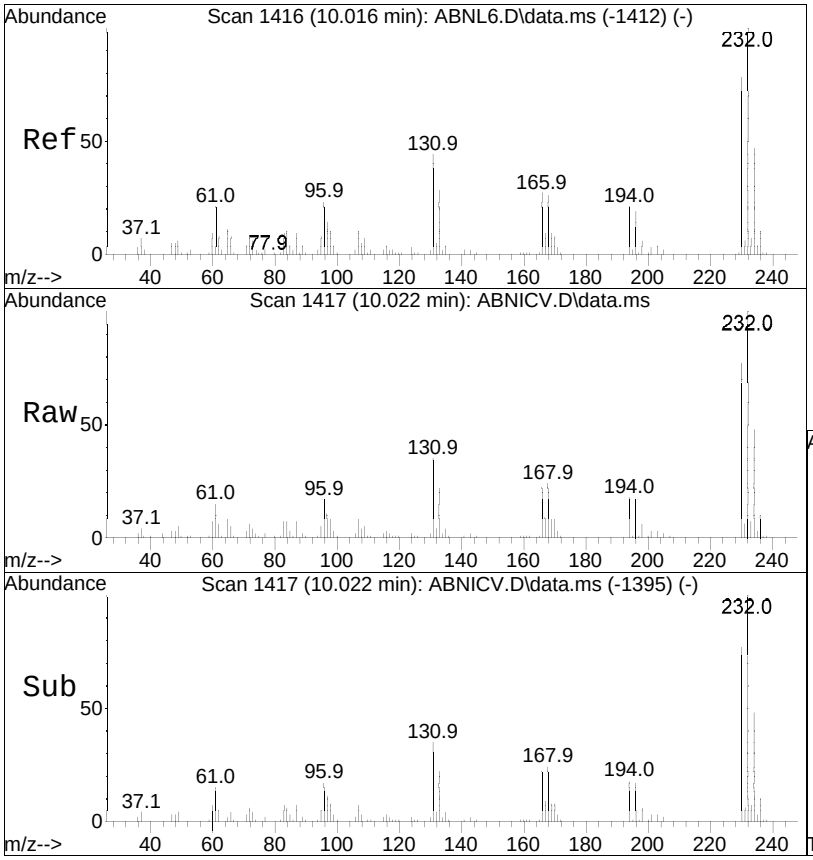


#68
4-Nitrophenol
Concen: 5.24 ug/ml
RT: 9.880 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 65 Resp: 32159

Ion	Ratio	Lower	Upper
65	100		
109	76.3	47.4	71.2#
139	97.3	76.6	115.0

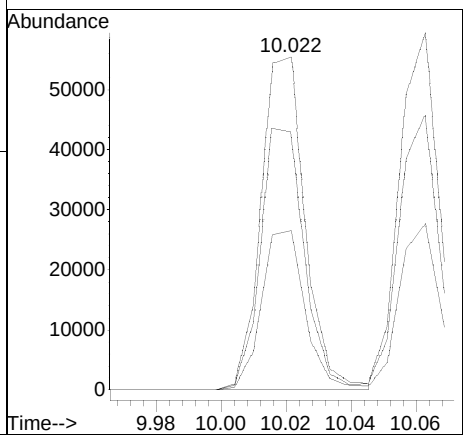


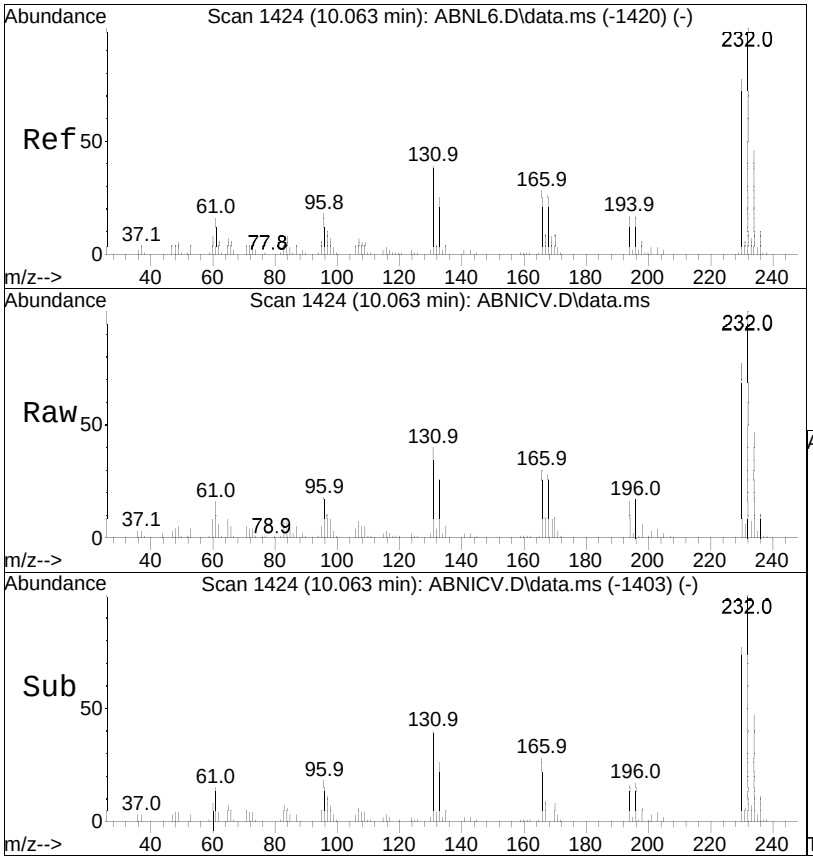


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.94 ug/ml
RT: 10.022 min Scan# 1417
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 52335

Ion	Ratio	Lower	Upper
232	100		
230	77.8	64.2	96.4
234	47.5	38.1	57.1

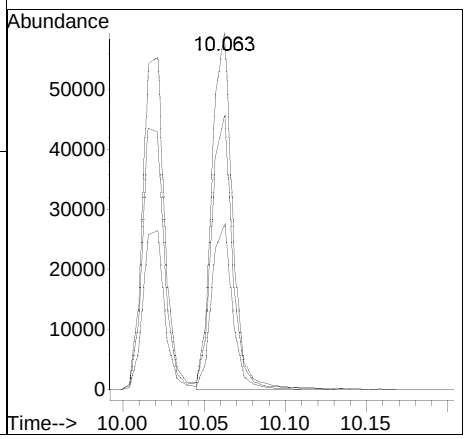


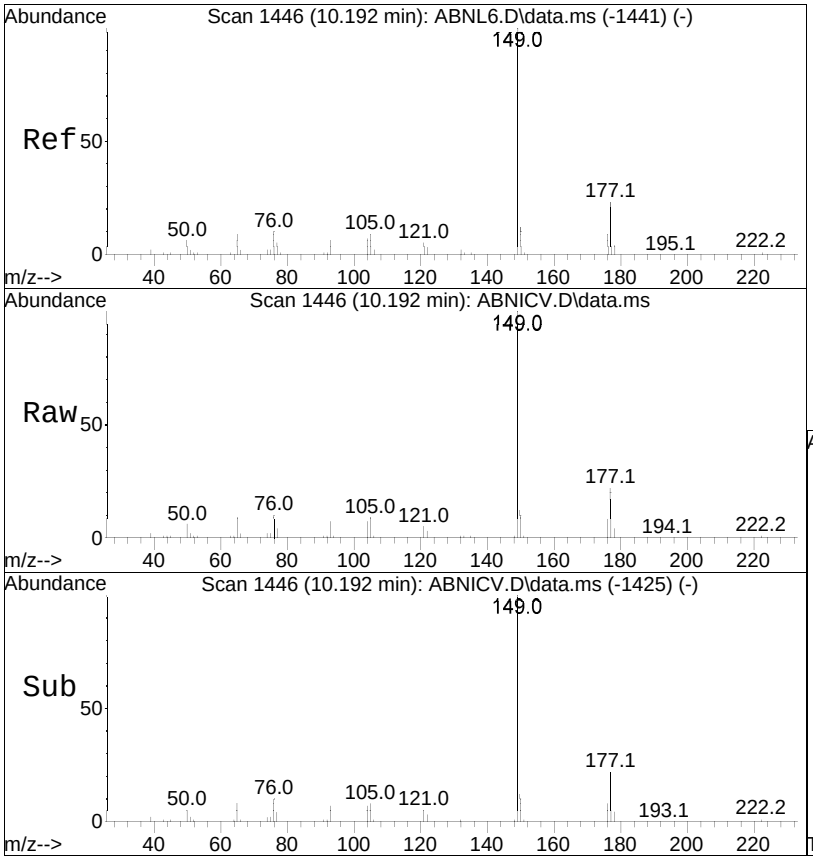


#70
2,3,4,6-Tetrachlorophenol
Concen: 6.15 ug/ml
RT: 10.063 min Scan# 1424
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:232 Resp: 53523

Ion	Ratio	Lower	Upper
232	100		
230	77.6	61.8	92.8
234	46.4	36.2	54.2

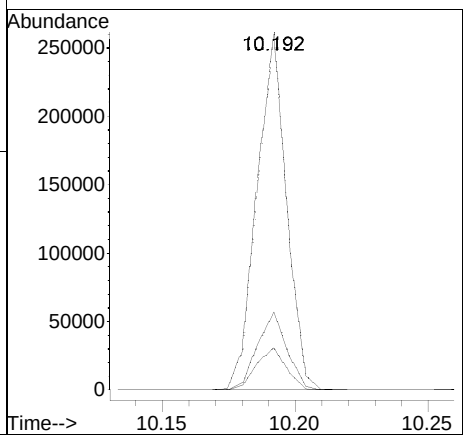


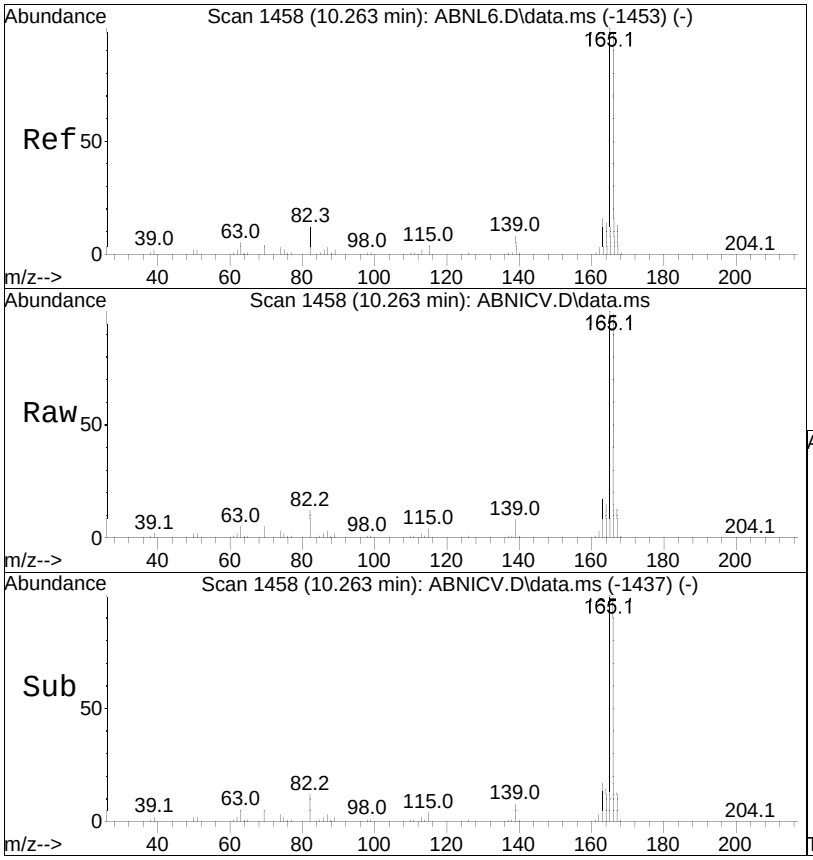


#71
Diethyl phthalate
Concen: 5.50 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 198362

Ion	Ratio	Lower	Upper
149	100		
177	22.0	16.1	24.1
150	12.1	9.4	14.2

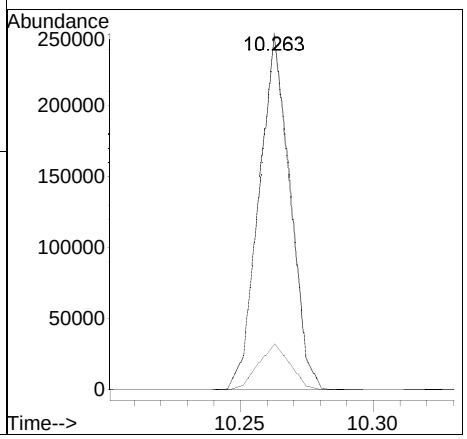


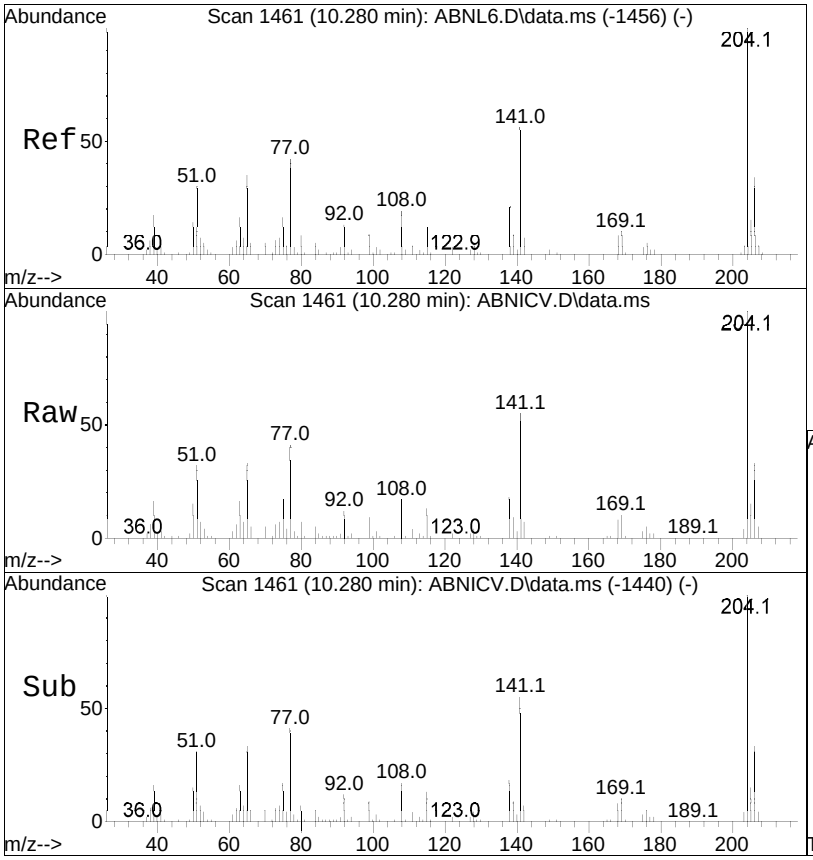


#72
Fluorene
Concen: 5.47 ug/ml
RT: 10.263 min Scan# 1458
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:166 Resp: 201378

Ion	Ratio	Lower	Upper
166	100		
165	102.2	76.2	114.2
167	13.7	10.6	15.8

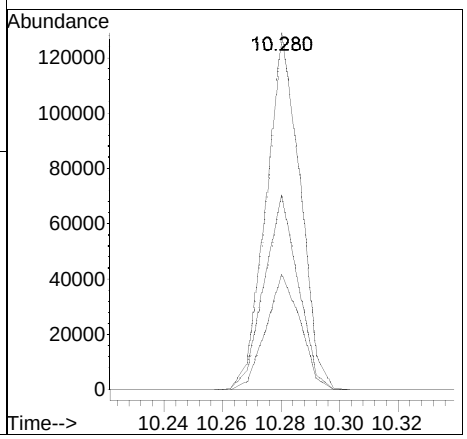


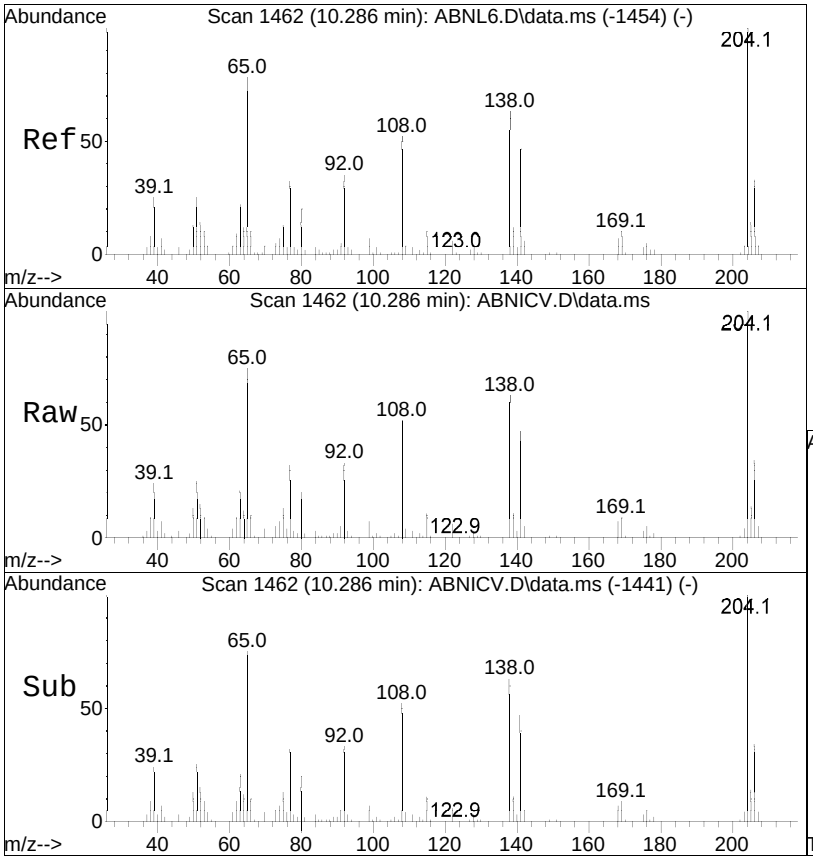


#73
4-Chlorophenyl phenyl ether
Concen: 5.52 ug/ml
RT: 10.280 min Scan# 1461
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:204 Resp: 102835

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	54.9	53.6	80.4

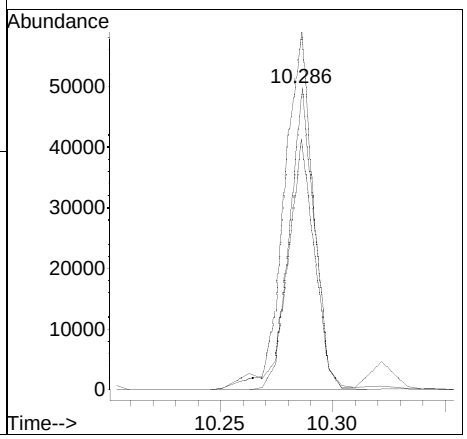


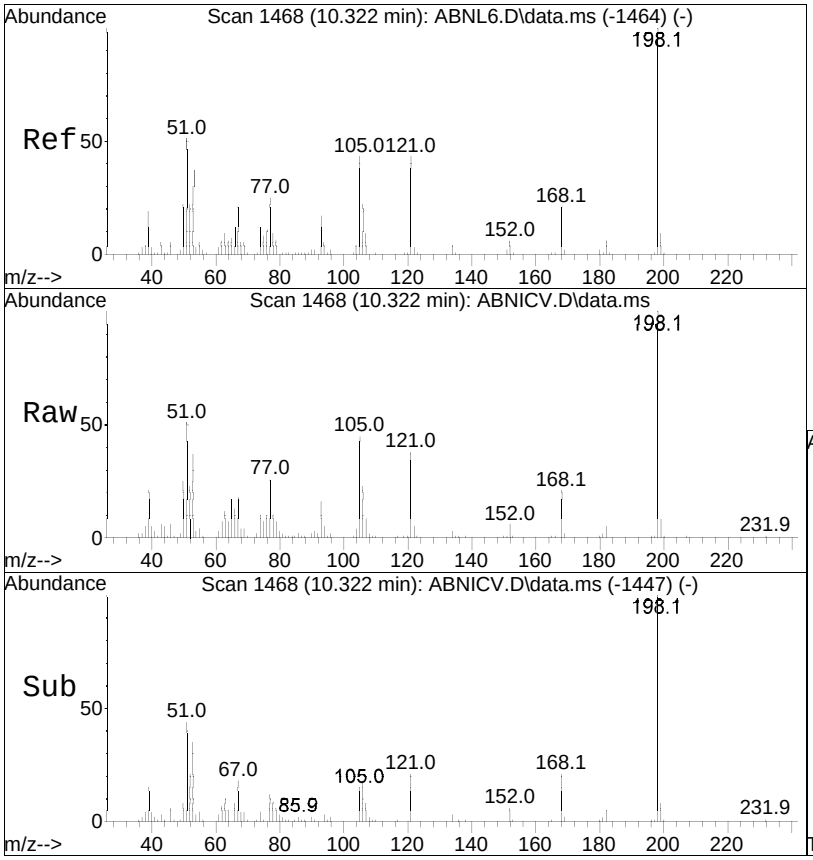


#74
4-Nitroaniline
Concen: 5.57 ug/ml
RT: 10.286 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:138 Resp: 40513

Ion	Ratio	Lower	Upper
138	100		
108	82.3	52.1	78.1#
65	129.8	115.0	172.6

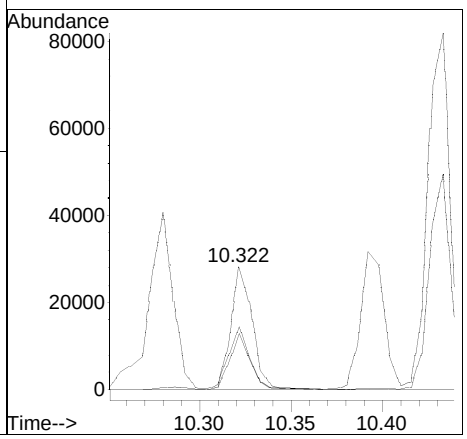


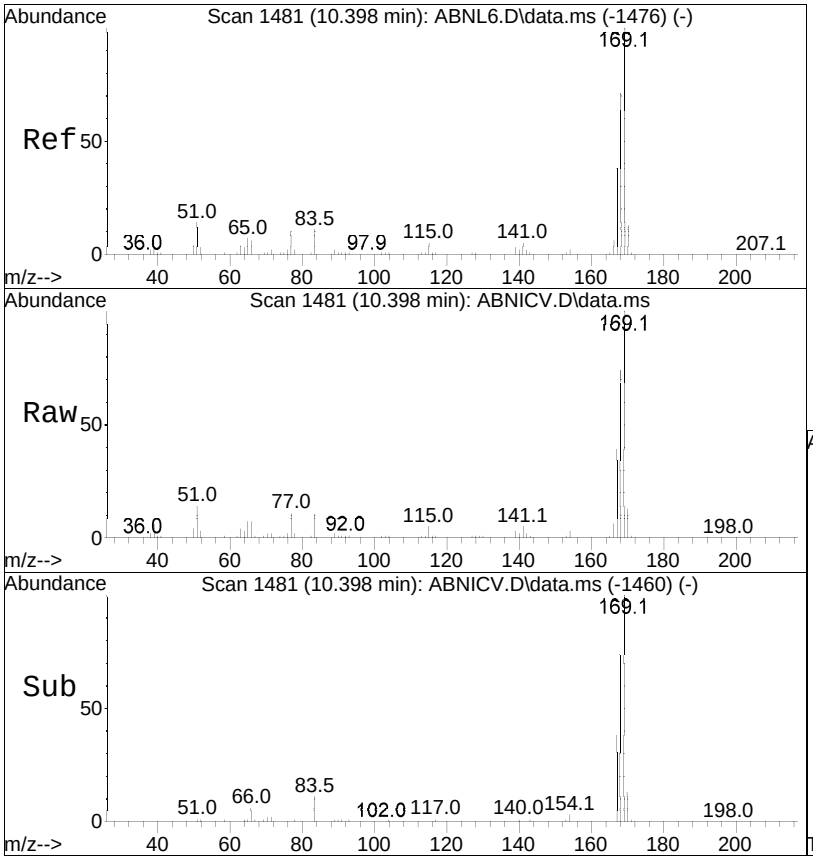


#75
4,6-Dinitro-o-cresol
Concen: 4.23 ug/ml
RT: 10.322 min Scan# 1468
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:198 Resp: 23532

Ion	Ratio	Lower	Upper
198	100		
51	48.4	76.0	114.0#
105	43.6	45.6	68.4#

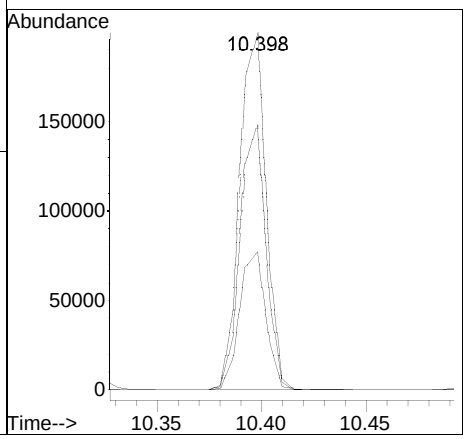


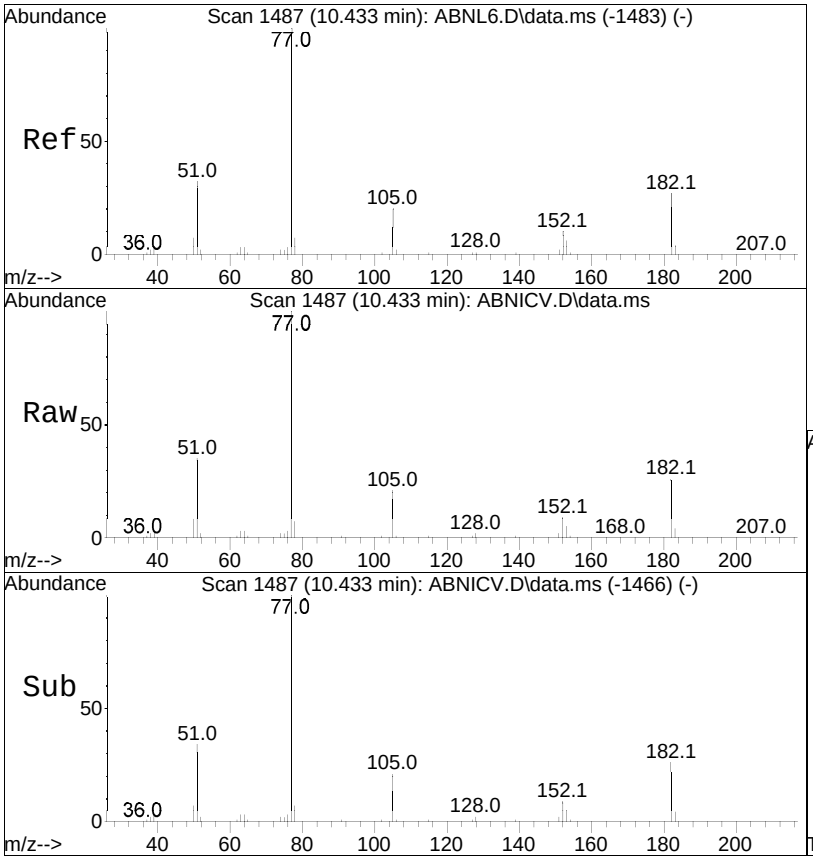


#76
NDPA/DPA
Concen: 5.59 ug/ml
RT: 10.398 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:169 Resp: 175362

Ion	Ratio	Lower	Upper
169	100		
168	72.6	54.0	81.0
167	38.7	28.6	42.8

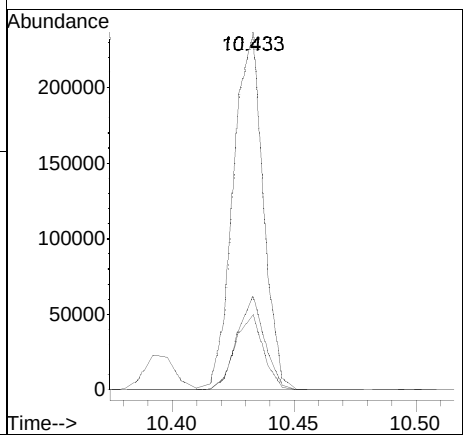


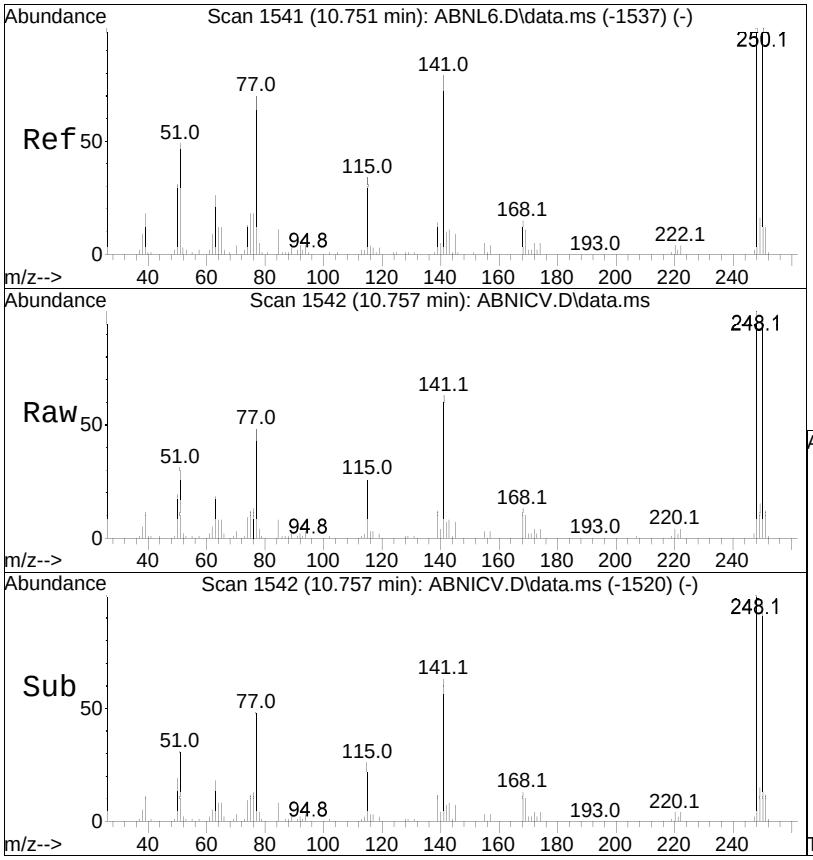


#77
Azobenzene
Concen: 5.72 ug/ml
RT: 10.433 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion: 77 Resp: 199756

Ion	Ratio	Lower	Upper
77	100		
182	24.5	17.4	26.2
105	20.3	15.4	23.2

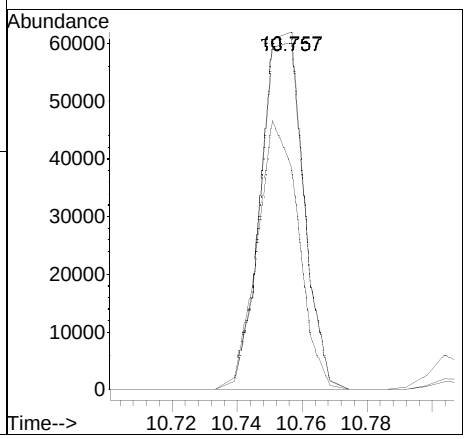


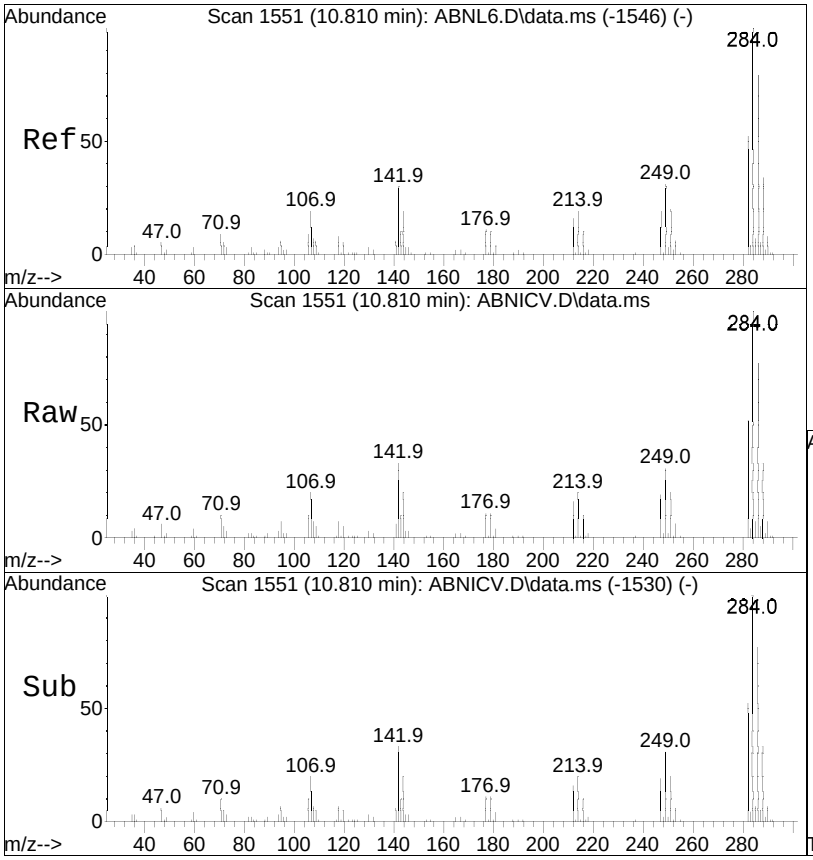


#79
4-Bromophenyl phenyl ether
Concen: 5.43 ug/ml
RT: 10.757 min Scan# 1542
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:248 Resp: 56638

Ion	Ratio	Lower	Upper
248	100		
141	71.9	76.6	114.8#
250	97.4	77.3	115.9

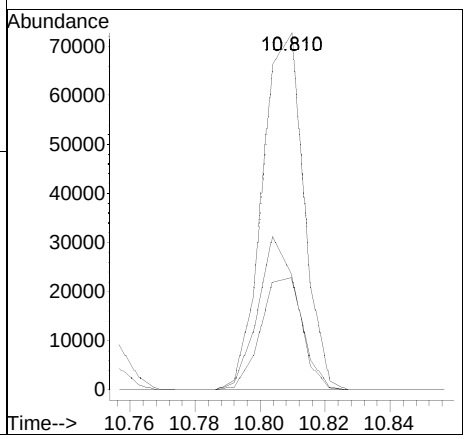


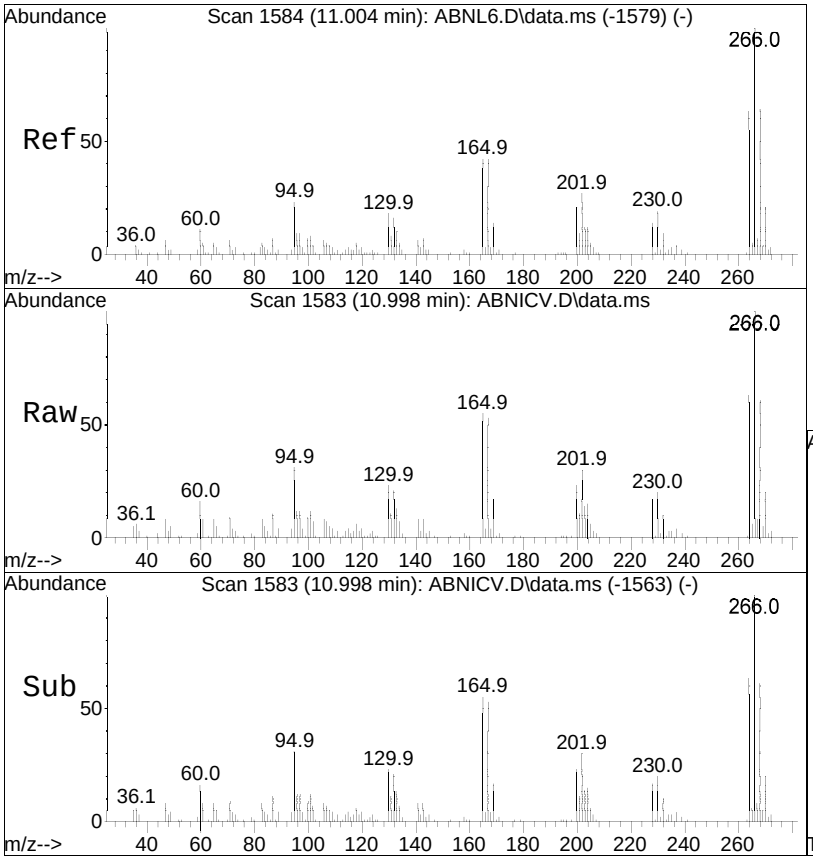


#80
Hexachlorobenzene
Concen: 5.39 ug/ml
RT: 10.810 min Scan# 1551
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:284 Resp: 64431

Ion	Ratio	Lower	Upper
284	100		
142	40.3	41.9	62.9#
249	32.3	24.1	36.1

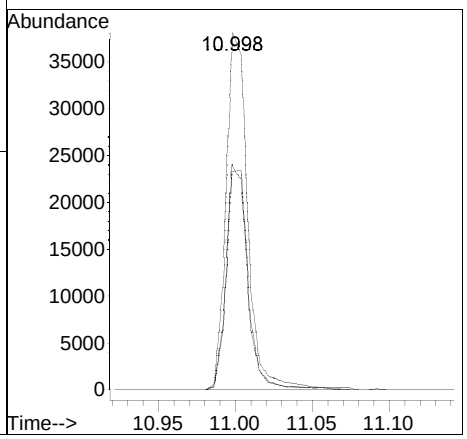


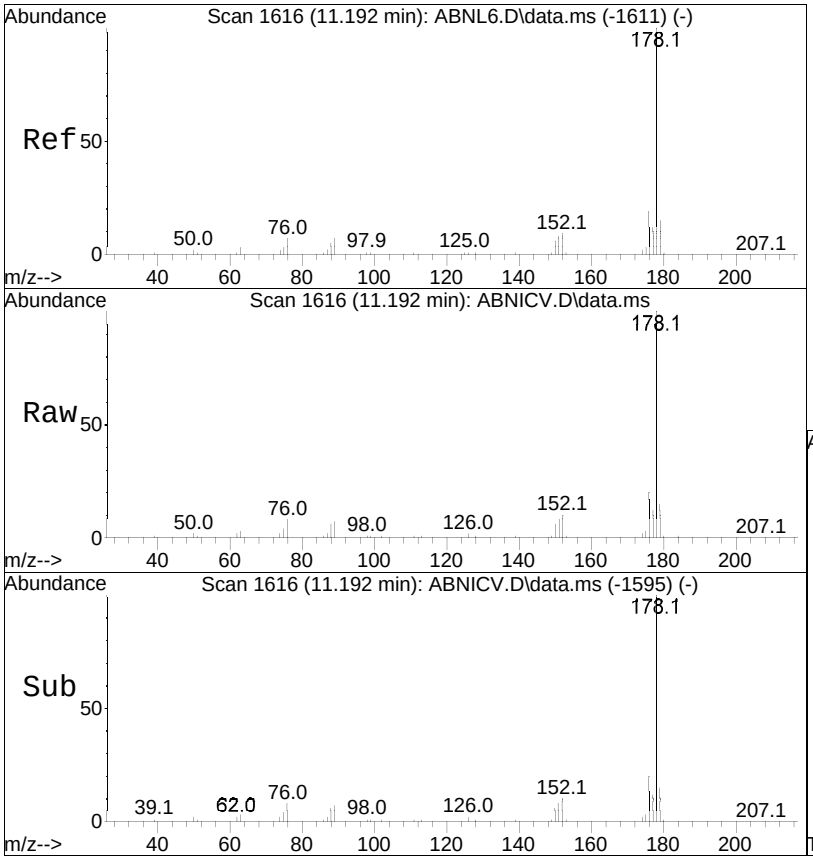


#81
Pentachlorophenol
Concen: 5.36 ug/ml
RT: 10.998 min Scan# 1583
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:266 Resp: 37359

Ion	Ratio	Lower	Upper
266	100		
264	62.2	49.7	74.5
268	62.8	50.5	75.7

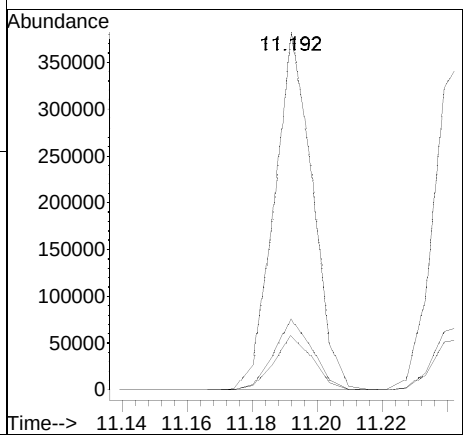


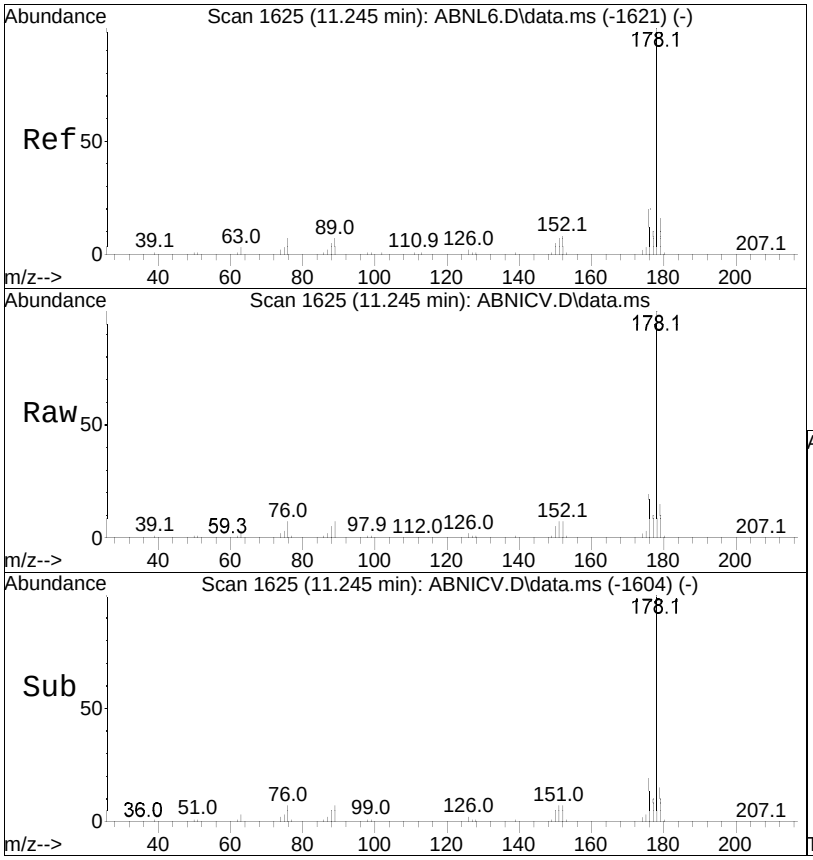


#88
Phenanthrene
Concen: 5.28 ug/ml
RT: 11.192 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 311941

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.8	15.4	23.2

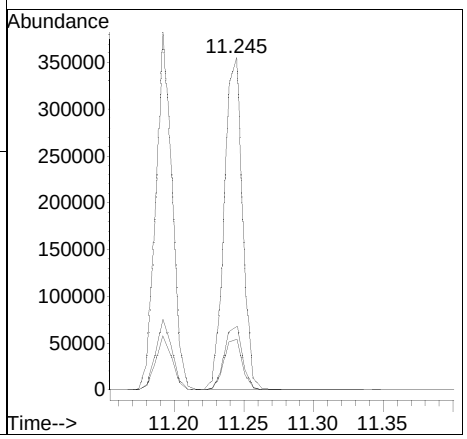


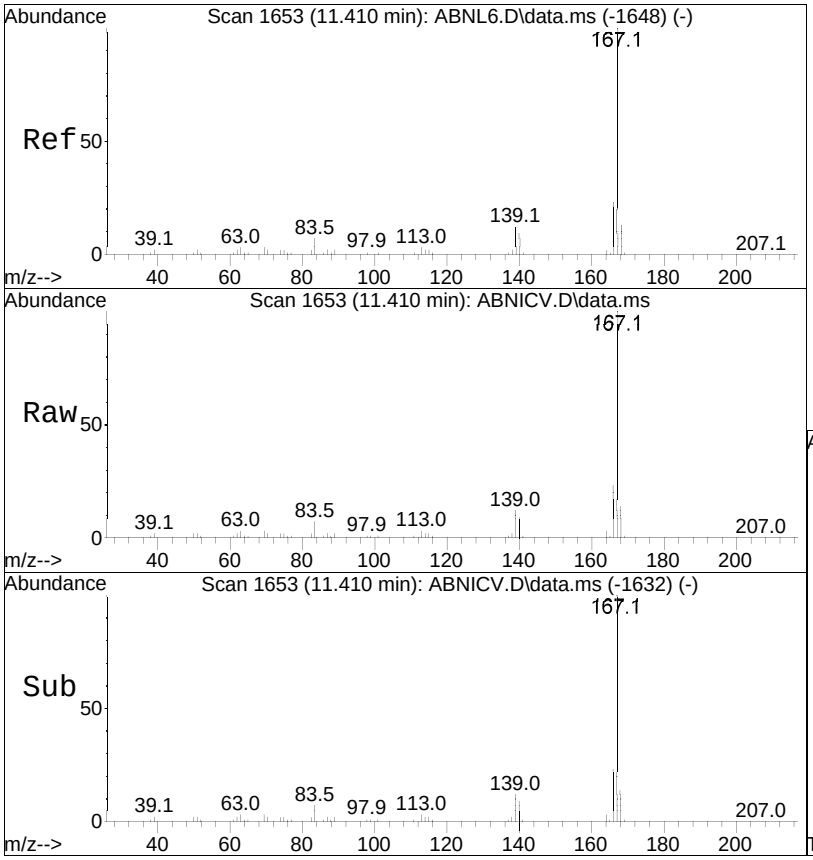


#89
Anthracene
Concen: 5.52 ug/ml
RT: 11.245 min Scan# 1625
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:178 Resp: 323617

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	19.2	14.6	22.0

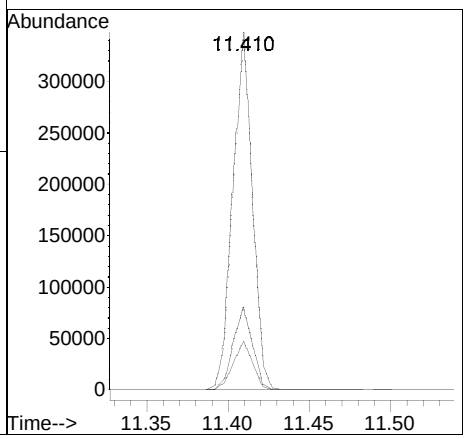


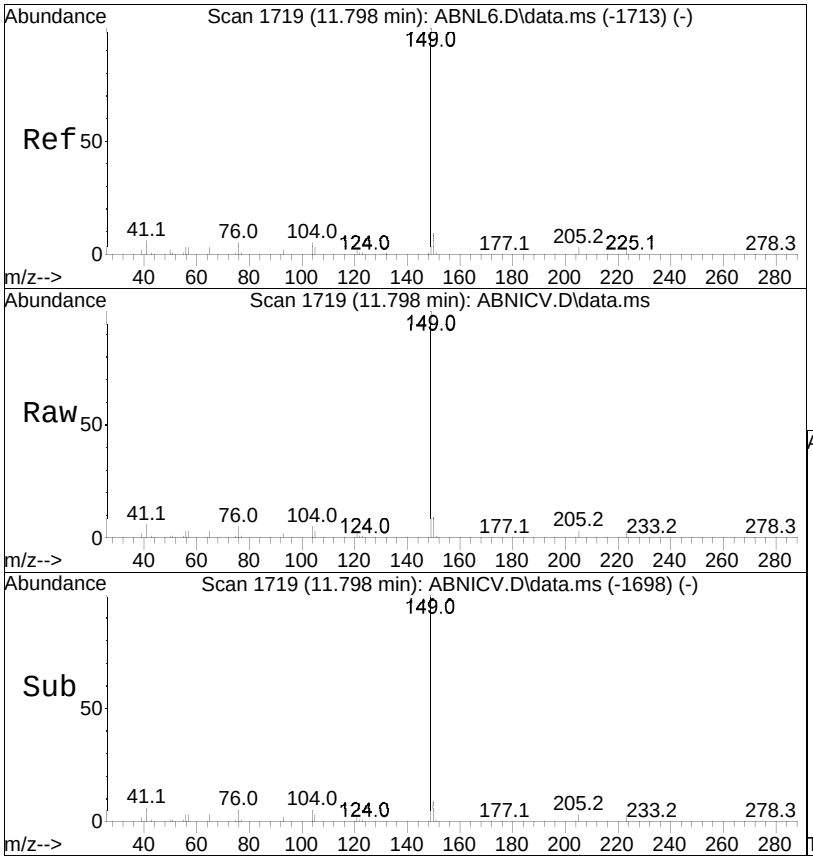


#90
Carbazole
Concen: 5.45 ug/ml
RT: 11.410 min Scan# 1653
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:167 Resp: 287846

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.0	17.4	26.0

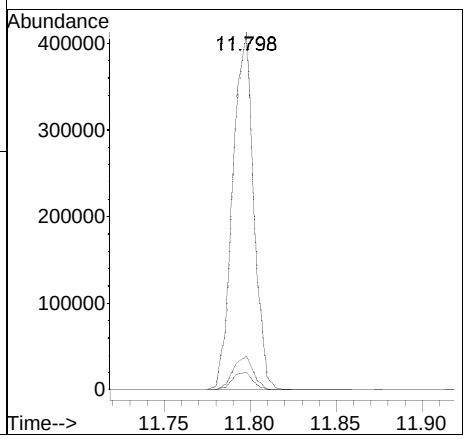


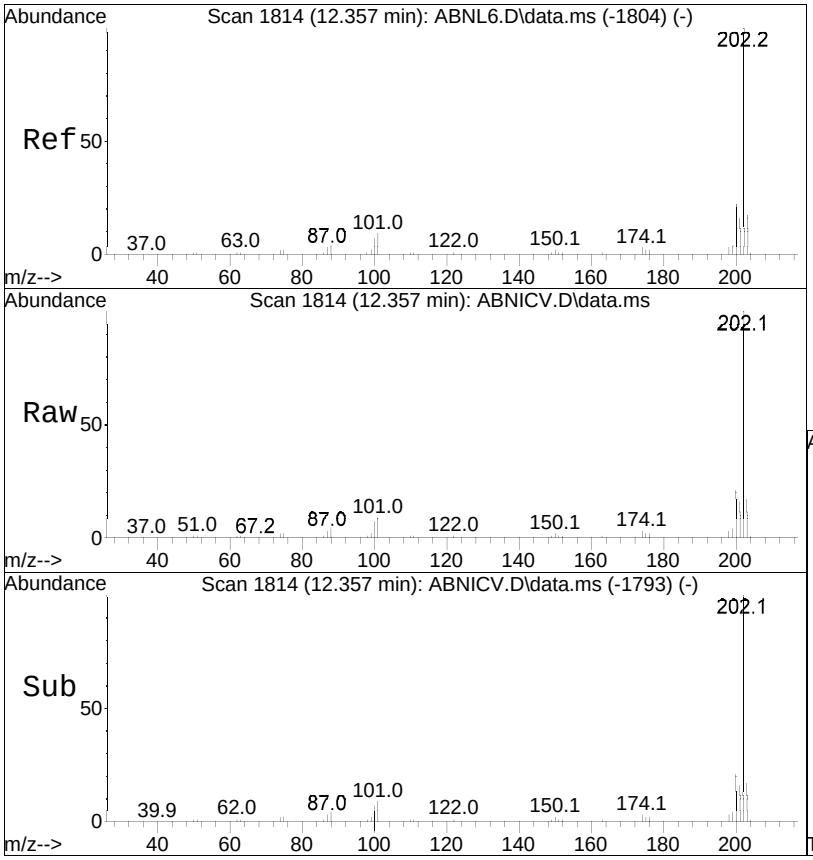


#91
Di-n-butylphthalate
Concen: 5.55 ug/ml
RT: 11.798 min Scan# 1719
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 343566

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.0	4.5	6.7

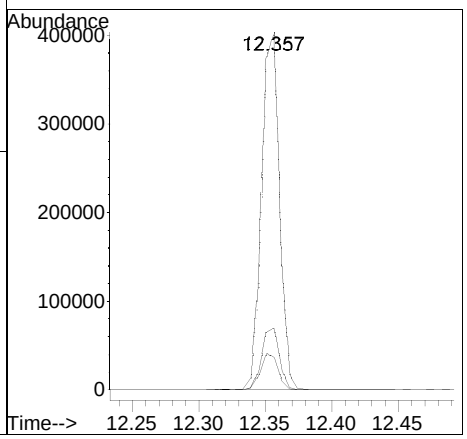


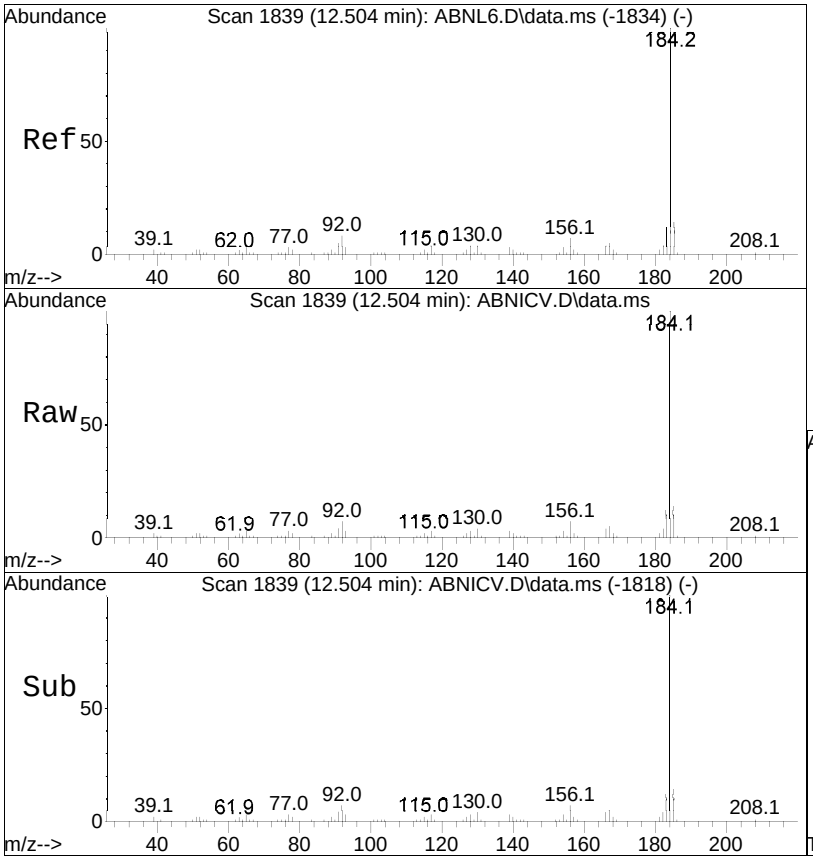


#92
Fluoranthene
Concen: 5.51 ug/ml
RT: 12.357 min Scan# 1814
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 371982

Ion	Ratio	Lower	Upper
202	100		
101	10.2	13.5	20.3#
203	17.4	13.6	20.4

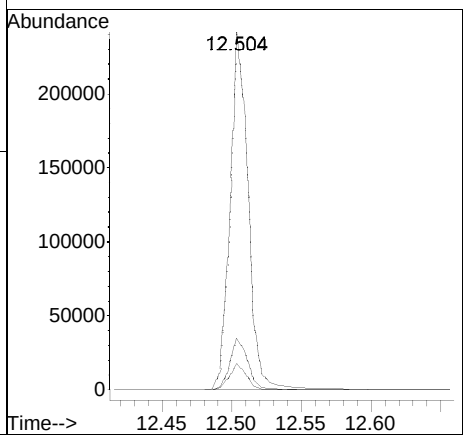


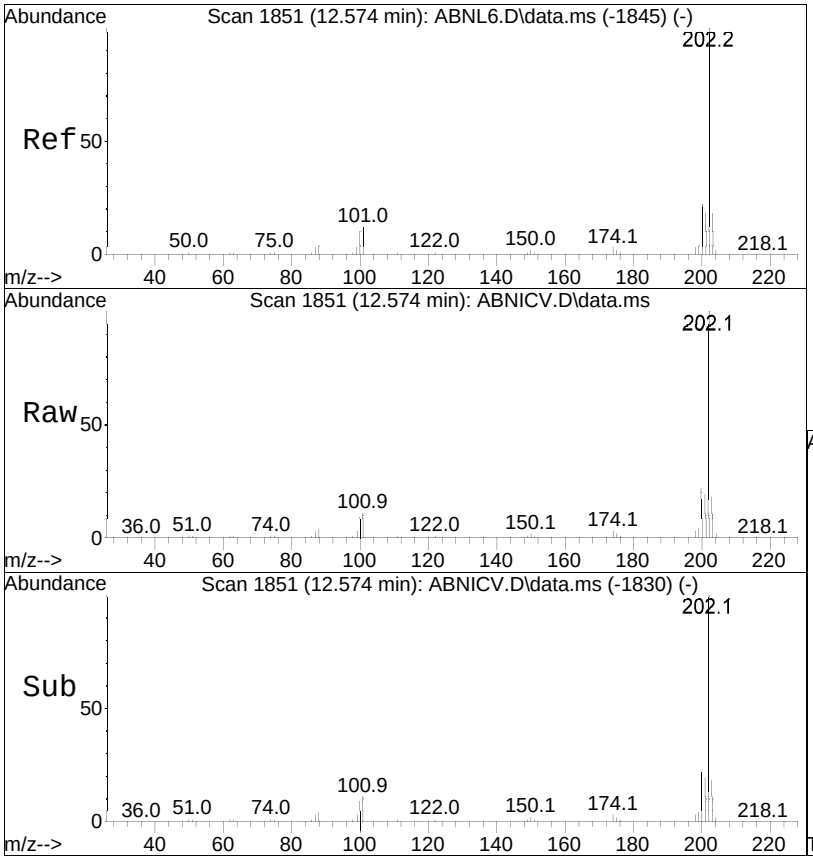


#93
Benzidine
Concen: 5.23 ug/ml
RT: 12.504 min Scan# 1839
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:184 Resp: 214564

Ion	Ratio	Lower	Upper
184	100		
92	7.1	9.1	13.7#
185	14.5	11.1	16.7

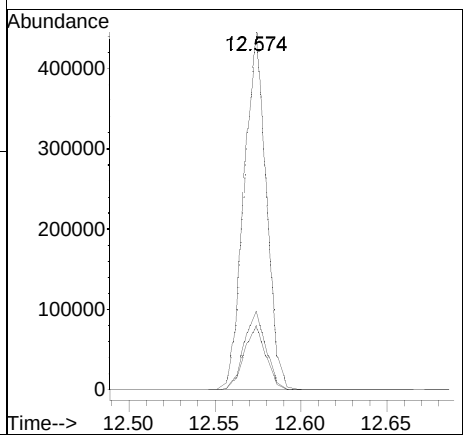


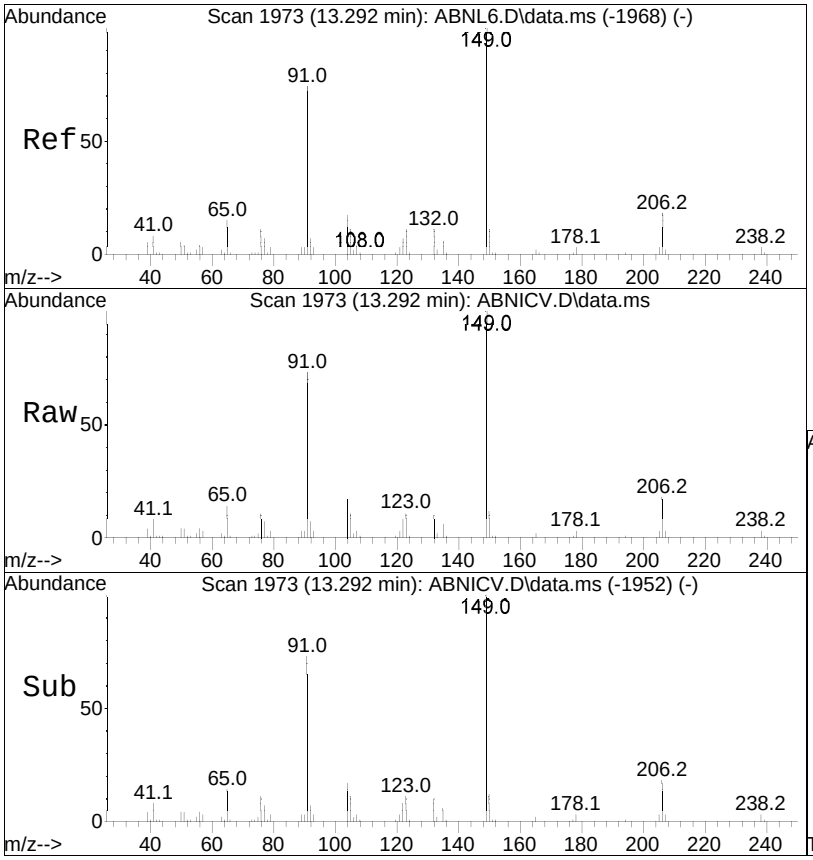


#94
Pyrene
Concen: 5.49 ug/ml
RT: 12.574 min Scan# 1851
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:202 Resp: 396732

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.7	25.1
203	17.6	14.2	21.4

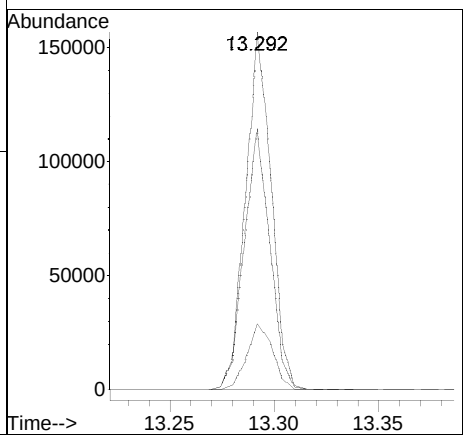


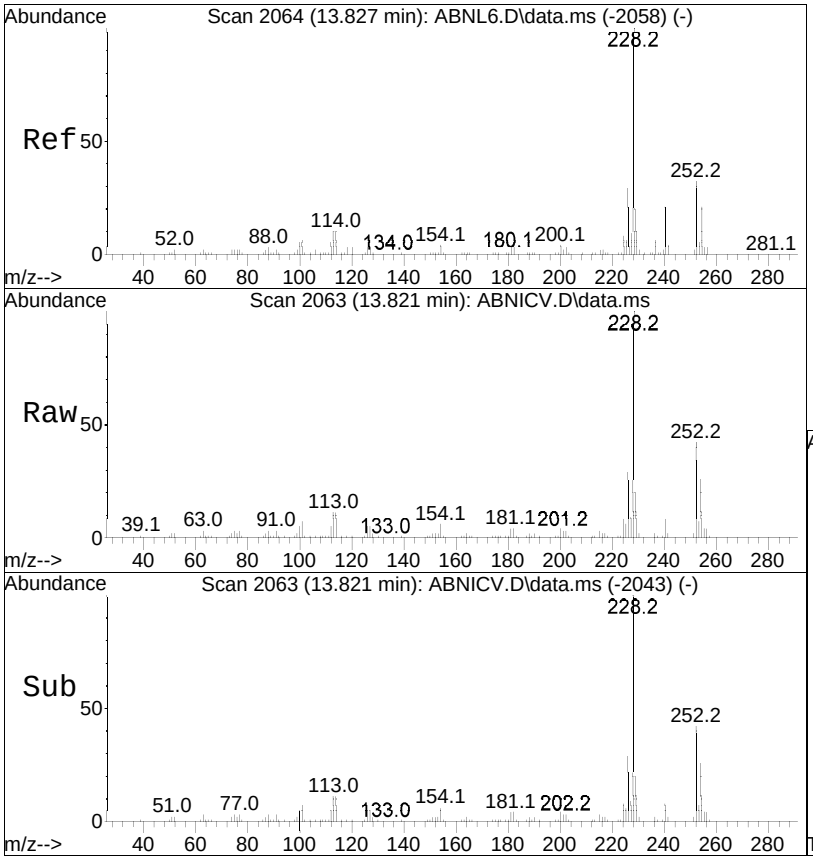


#96
Butyl benzyl phthalate
Concen: 4.56 ug/ml
RT: 13.292 min Scan# 1973
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 132785

Ion	Ratio	Lower	Upper
149	100		
91	73.3	63.3	94.9
206	18.7	13.9	20.9

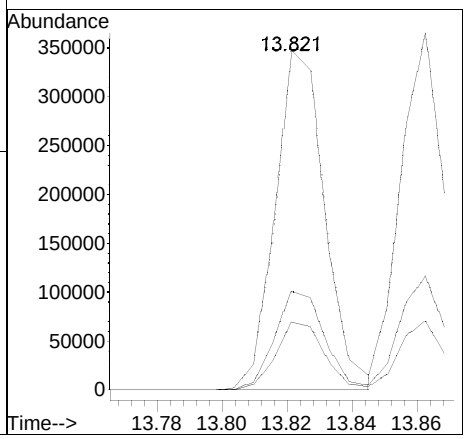


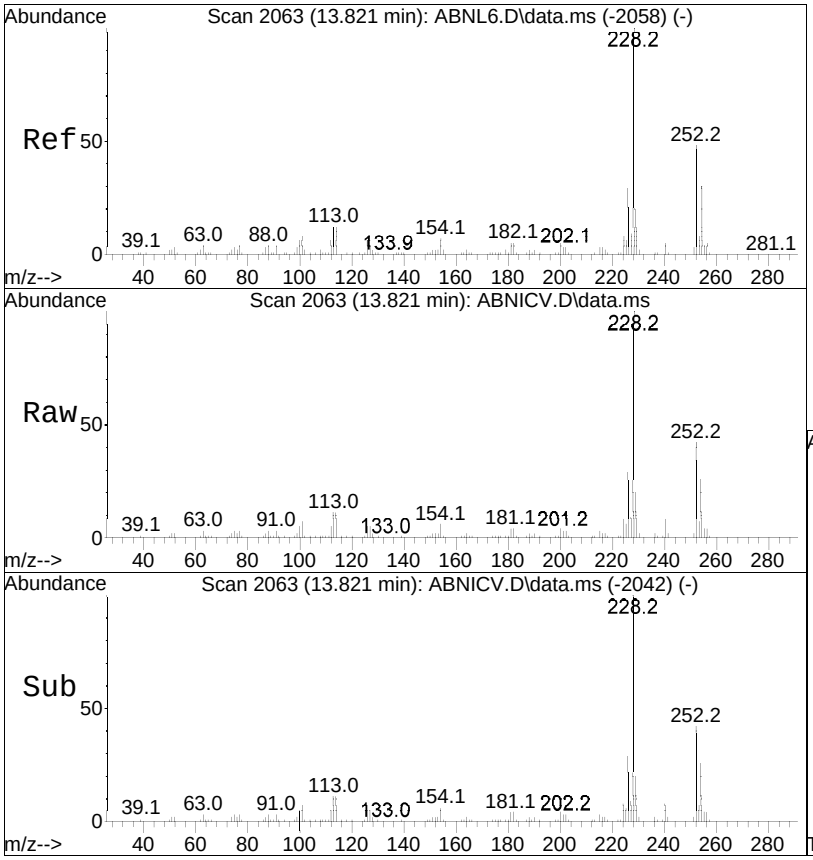


#104
Benzo(a)anthracene
Concen: 5.46 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 366917

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.2	33.4
229	19.8	15.6	23.4

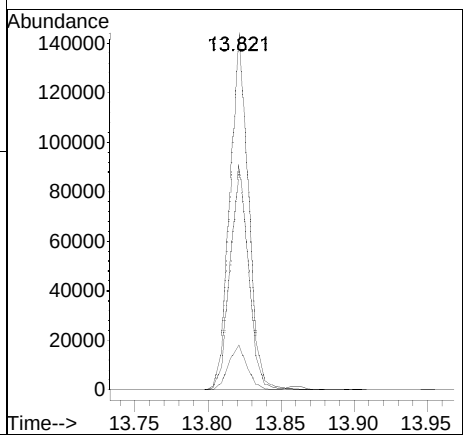


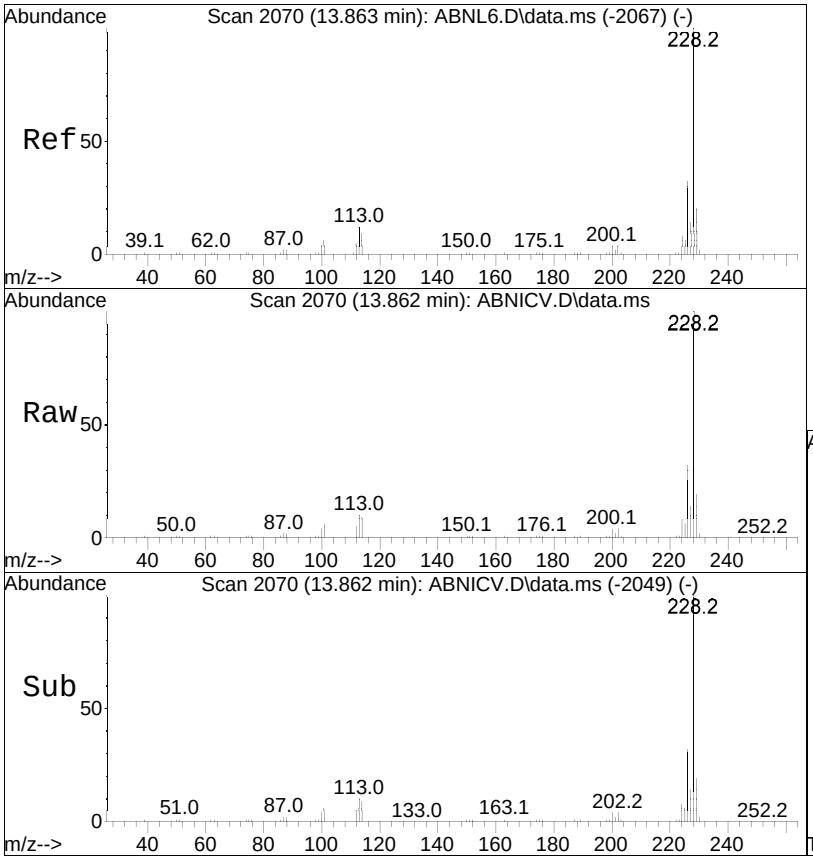


#105
3,3'-Dichlorobenzidine
Concen: 5.81 ug/ml
RT: 13.821 min Scan# 2063
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 125706

Ion	Ratio	Lower	Upper
252	100		
126	13.0	14.5	21.7#
254	63.1	51.2	76.8

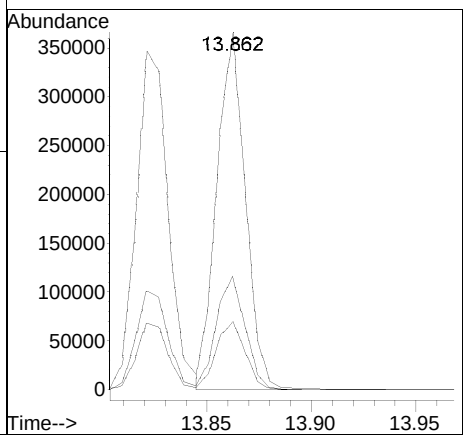


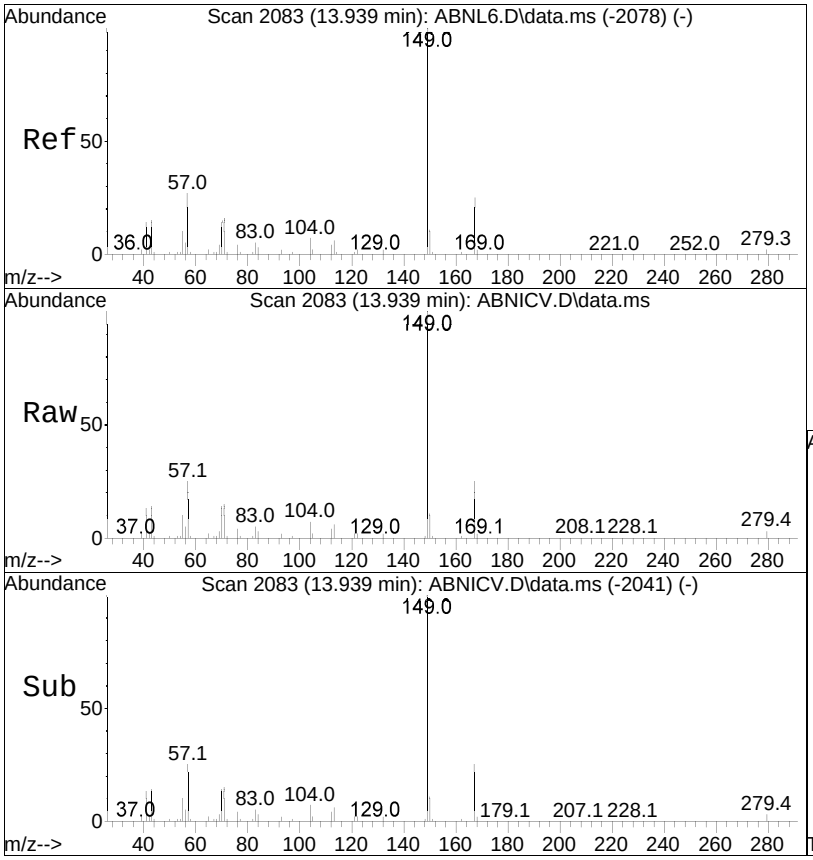


#106
Chrysene
Concen: 5.42 ug/ml
RT: 13.862 min Scan# 2070
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:228 Resp: 347792

Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.0	36.0
229	19.5	15.8	23.8

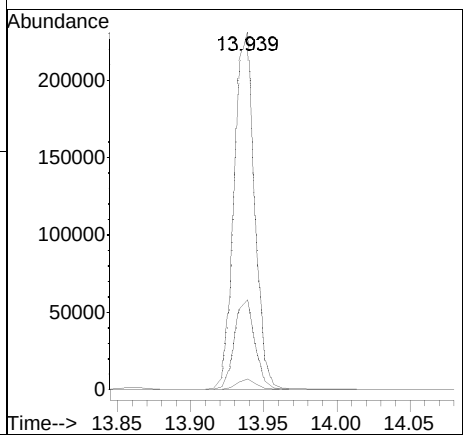


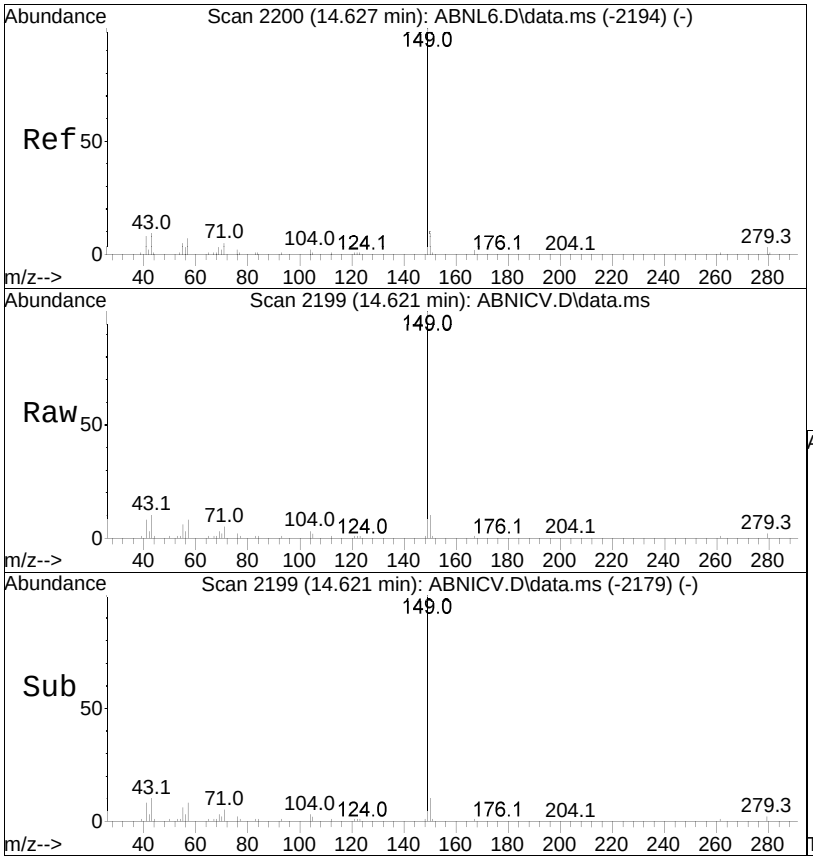


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.14 ug/ml
RT: 13.939 min Scan# 2083
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 222853

Ion	Ratio	Lower	Upper
149	100		
167	25.1	22.1	33.1
279	2.5	3.0	4.4#

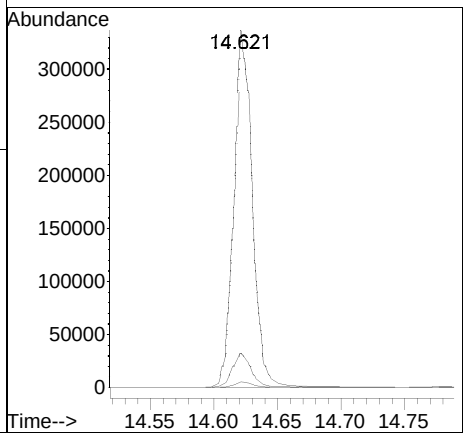


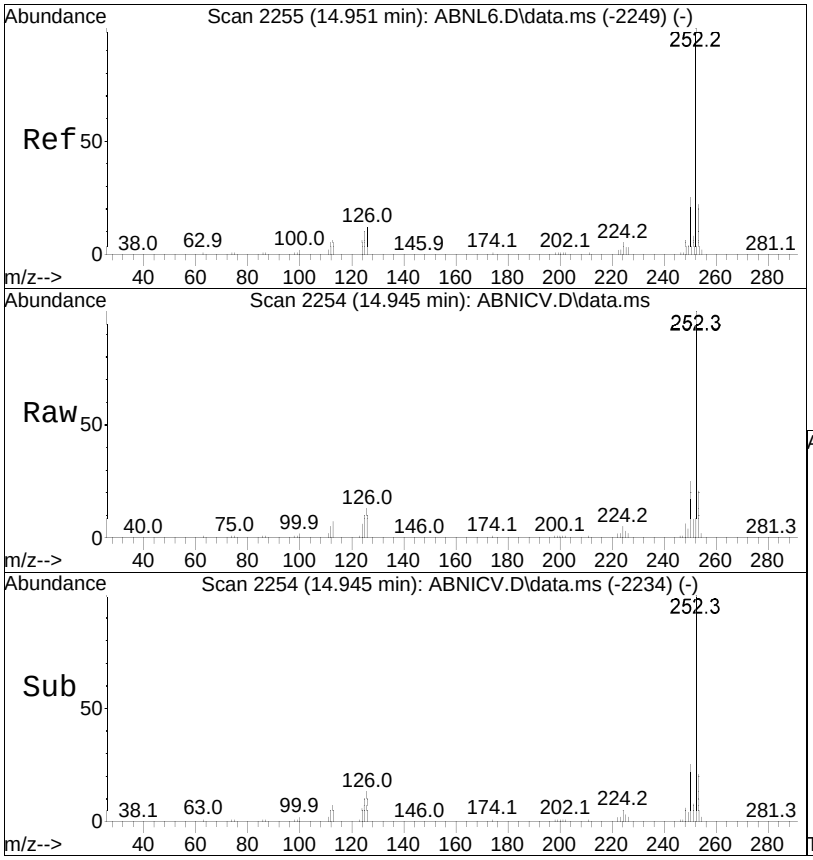


#108
Di-n-octylphthalate
Concen: 4.74 ug/ml
RT: 14.621 min Scan# 2199
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:149 Resp: 332901

Ion	Ratio	Lower	Upper
149	100		
43	10.2	18.8	28.2#
167	1.4	1.3	1.9

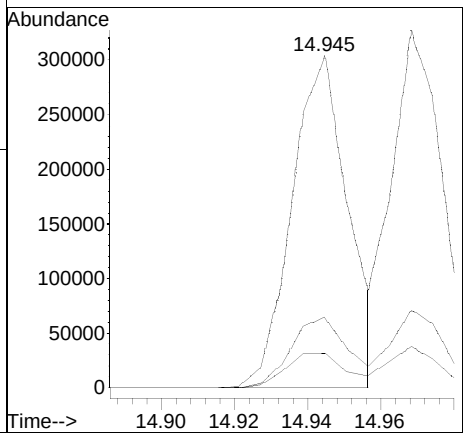


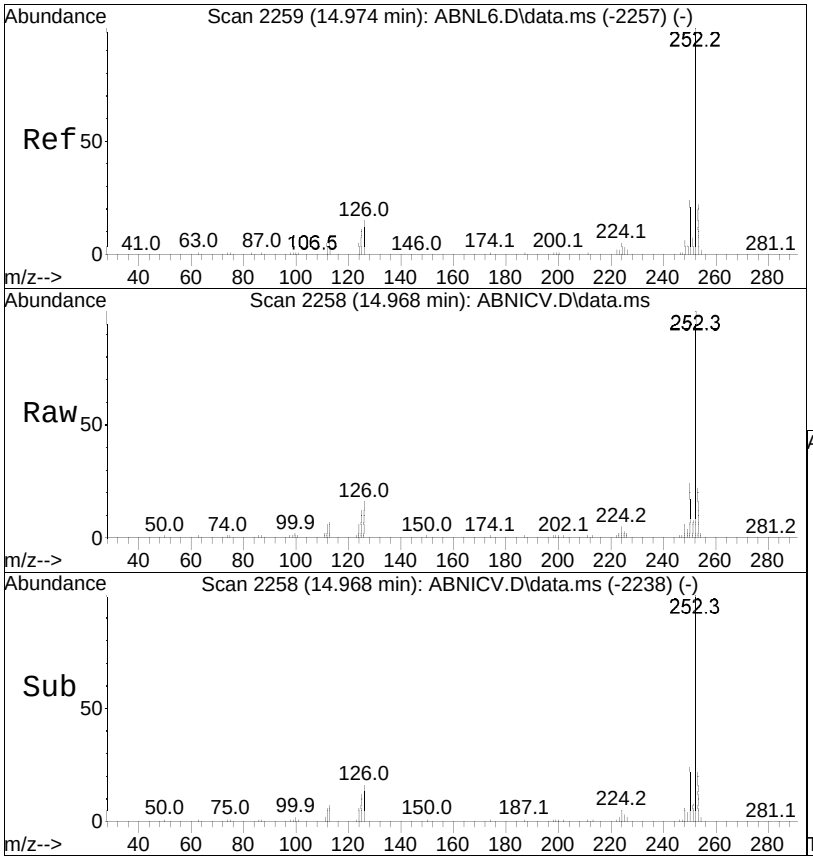


#109
Benzo(b)fluoranthene
Concen: 5.54 ug/ml
RT: 14.945 min Scan# 2254
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 328567

Ion	Ratio	Lower	Upper
252	100		
125	11.4	13.3	19.9#
253	21.8	17.1	25.7

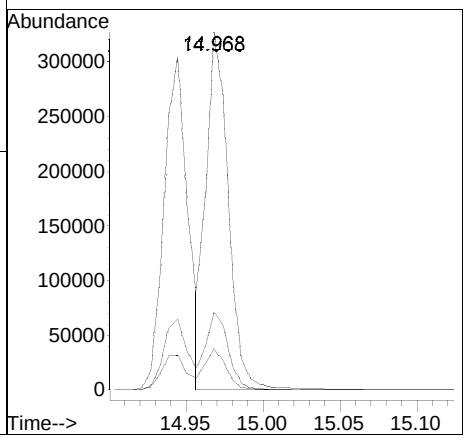


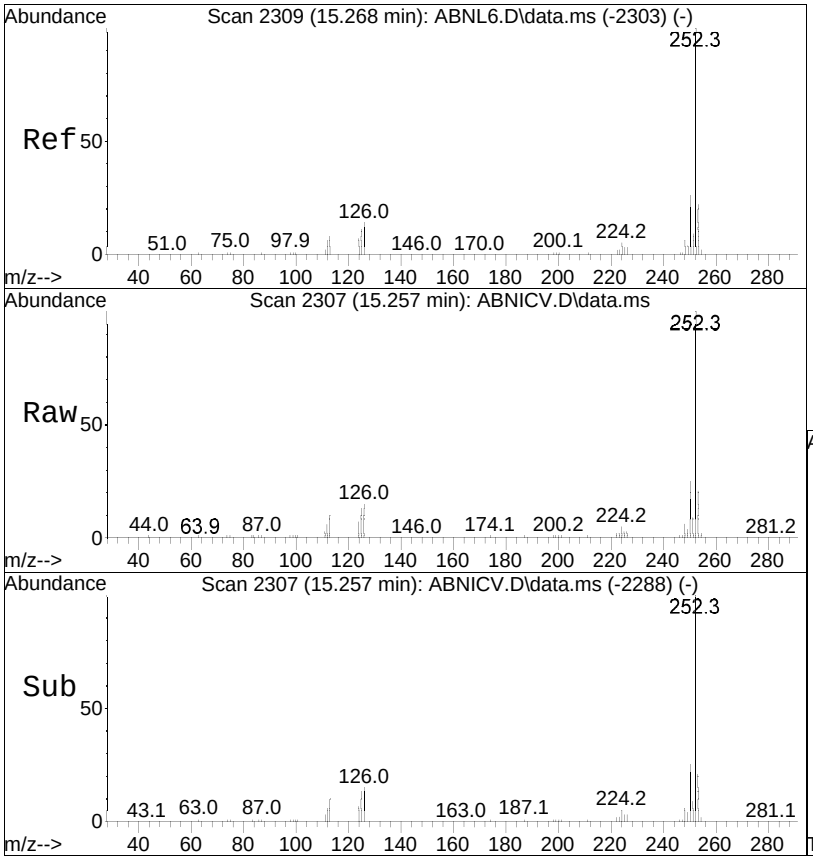


#110
Benzo(k)fluoranthene
Concen: 5.63 ug/ml
RT: 14.968 min Scan# 2258
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 326553

Ion	Ratio	Lower	Upper
252	100		
125	11.0	13.0	19.6#
253	22.0	16.8	25.2

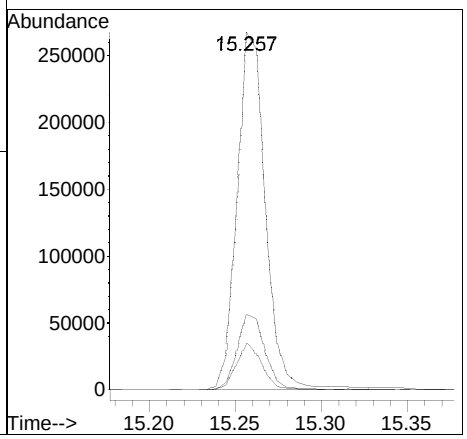


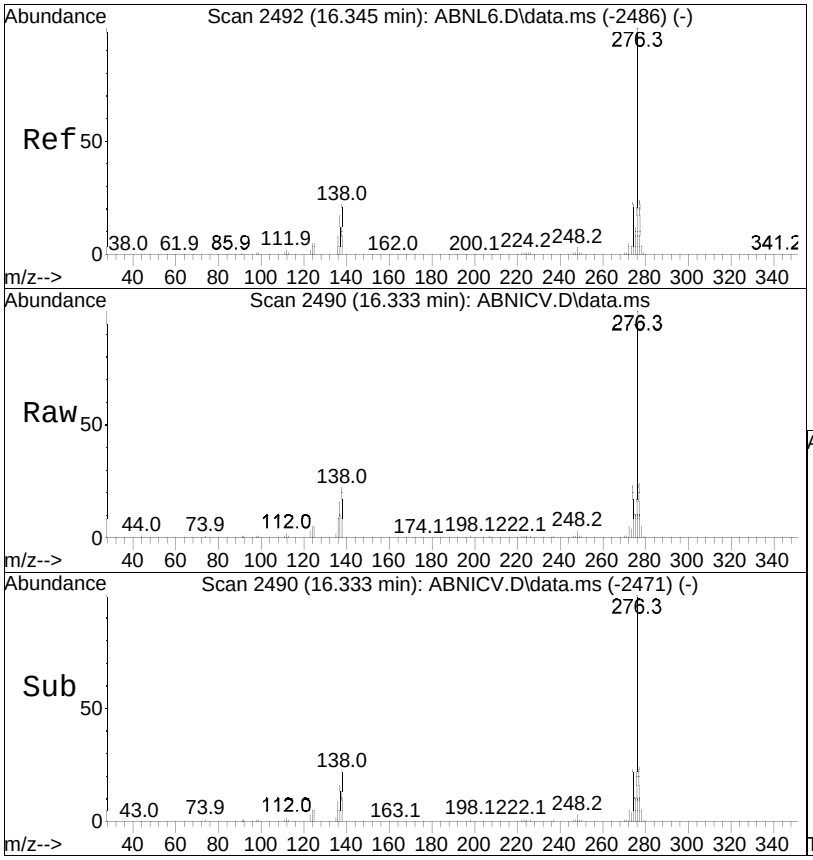


#111
Benzo(a)pyrene
Concen: 5.92 ug/ml
RT: 15.257 min Scan# 2307
Delta R.T. -0.011 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:252 Resp: 305124

Ion	Ratio	Lower	Upper
252	100		
125	11.9	14.2	21.2#
253	20.9	16.9	25.3

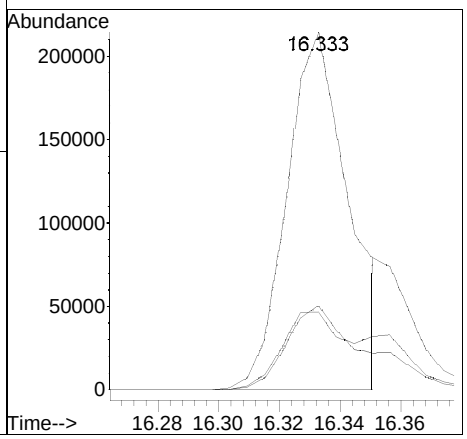


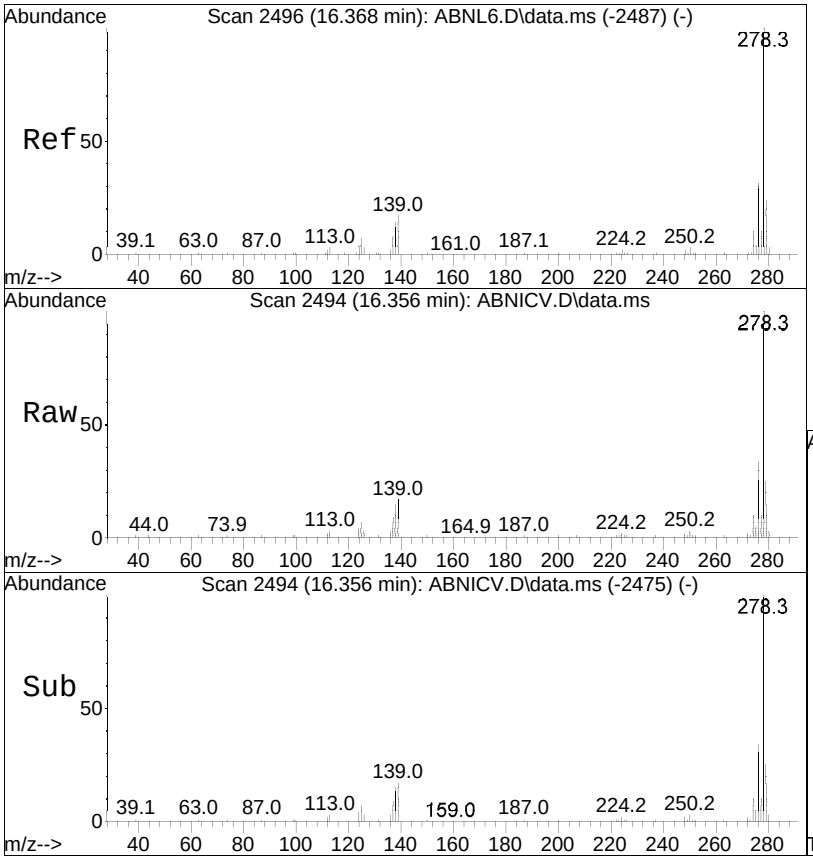


#113
Indeno(1,2,3-cd)pyrene
Concen: 6.28 ug/mL M6
RT: 16.333 min Scan# 2490
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 303147

Ion	Ratio	Lower	Upper
276	100		
138	34.9	25.1	37.7
277	30.8	18.6	28.0#

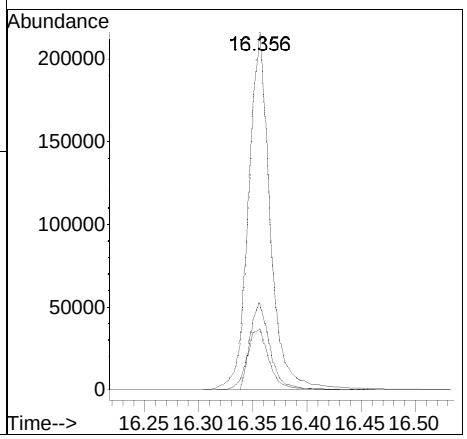


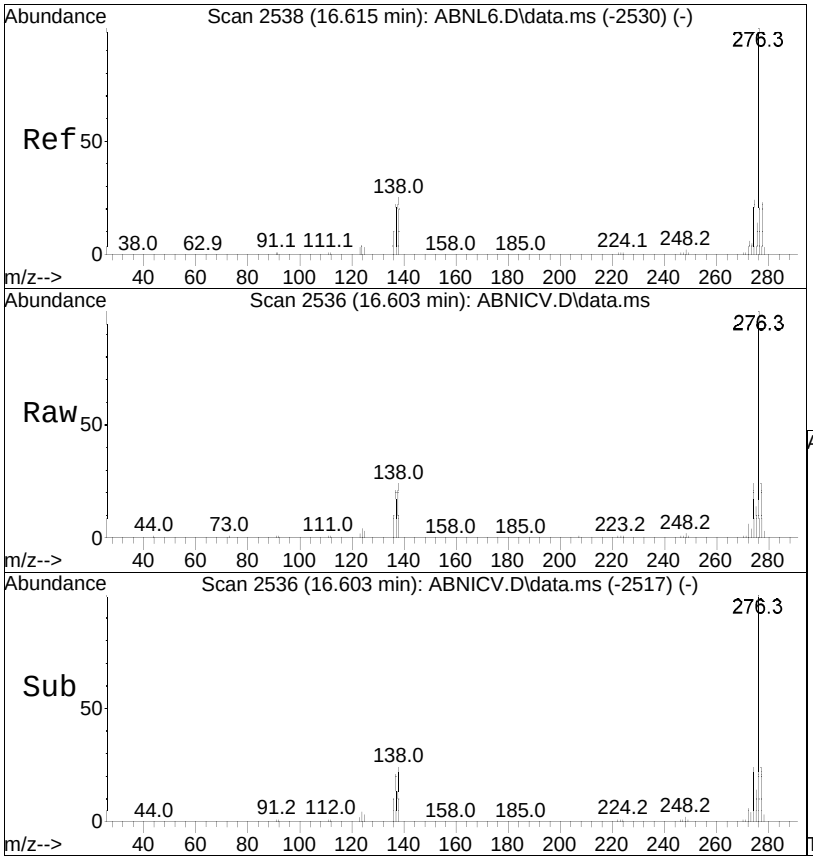


#114
Dibenzo(a,h)anthracene
Concen: 6.18 ug/ml
RT: 16.356 min Scan# 2494
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:278 Resp: 298480

Ion	Ratio	Lower	Upper
278	100		
139	16.6	20.8	31.2#
279	23.8	18.3	27.5

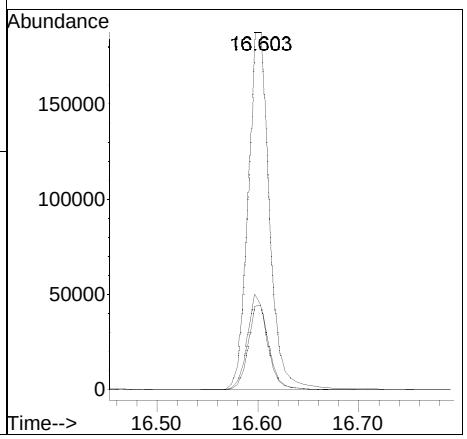




#115
Benzo(ghi)perylene
Concen: 5.79 ug/ml
RT: 16.603 min Scan# 2536
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 3 Jun 2024 3:14 am

Tgt Ion:276 Resp: 272174

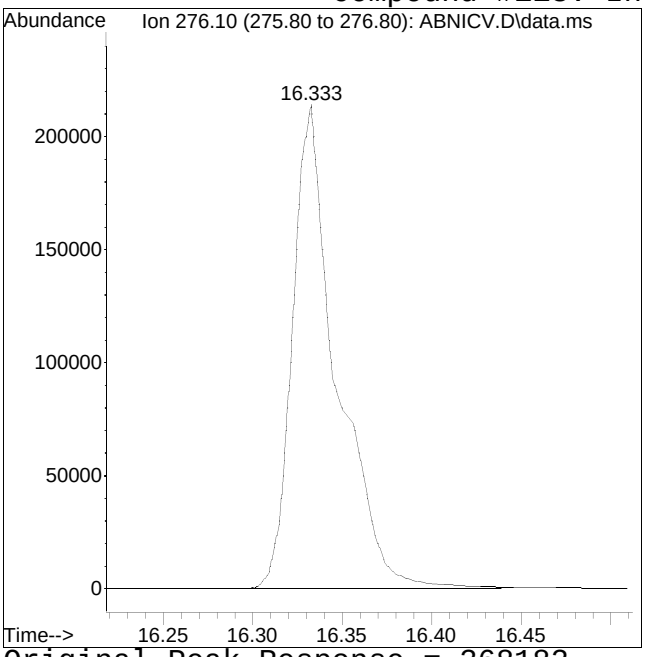
Ion	Ratio	Lower	Upper
276	100		
138	25.4	29.2	43.8#
277	23.6	18.8	28.2



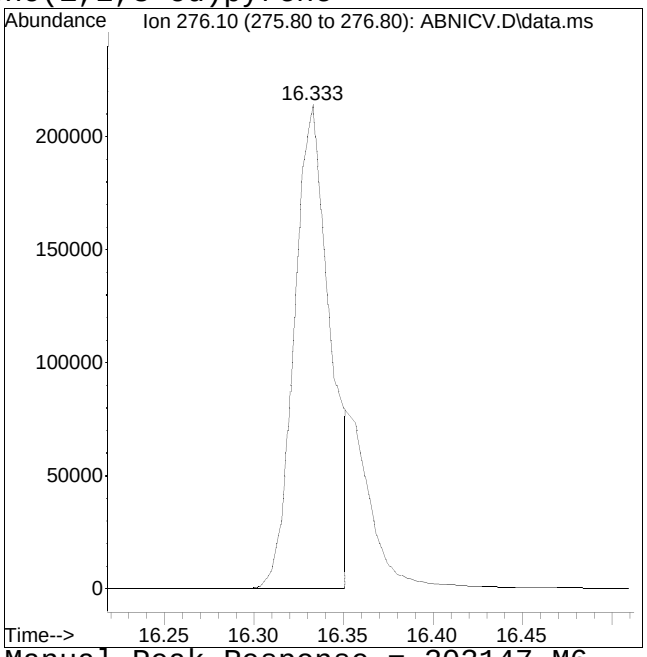
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ABNICV.D Operator : SV107:jg
Date Inj'd : 6/3/2024 3:14 am Instrument : SV107
Sample : CQICV1,32,,ABNICV Lot# 106 Quant Date : 6/3/2024 4:29 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 368182



Manual Peak Response = 303147 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	110	0.00
28	T	Benzaldehyde		1.024	0.995	2.8	114	0.00
29	T	Acetophenone		1.770	1.747	1.3	113	0.00
30	T	m-Toluidine		1.599	1.705	-6.6	114	0.00
31	T	2-Chloroaniline		1.546	1.533	0.8	112	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	104	0.00
55	T	a-Terpineol		0.276	0.276	0.0	111	0.00
56	T	3-Chloroaniline		0.147	0.150	-2.0	112	0.00
57	T	2,6-Dichlorophenol		0.290	0.299	-3.1	111	0.00
58	T	1-chloro-2-nitrobenzene		0.121	0.125	-3.3	117	0.00
59	T	Caprolactam		0.149	0.146	2.0	107	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.402	0.394	2.0	111	0.00
61	T	Biphenyl		0.929	0.909	2.2	111	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	109	0.00
83	T	Dichloran	*	5.000	4.676	6.5	120	0.00
84	T	Pentachloronitrobenzene	*	5.000	4.804	3.9	116	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
98	T	Diphenamid		0.445	0.474	-6.5	114	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.534	152	48775	4.000	ug/ml		0.00
Standard Area 3 = 44406			Recovery = 109.84%				
54) IS2_Naphthalene-d8	7.957	136	176755	4.000	ug/ml		0.00
Standard Area 3 = 169580			Recovery = 104.23%				
82) IS2_Acenaphthene-d10	9.728	164	108771	4.000	ug/ml		0.00
Standard Area 3 = 99848			Recovery = 108.94%				
97) IS2_Phenanthrene-d10	11.169	188	224732	4.000	ug/ml	#	0.00
Standard Area 3 = 214959			Recovery = 104.55%				
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.963	105	60668	4.860	ug/ml		98
29) Acetophenone	7.022	105	106516	4.935	ug/ml	#	83
30) m-Toluidine	7.122	106	103936	5.330	ug/ml		94
31) 2-Chloroaniline	7.528	127	93473	4.957	ug/ml	#	93
55) a-Terpineol	8.022	59	60976	4.992	ug/ml	#	78
56) 3-Chloroaniline	8.034	65	33250	5.106	ug/ml		88
57) 2,6-Dichlorophenol	8.063	162	66015	5.153	ug/ml	#	87
58) 1-chloro-2-nitrobenzene	8.334	111	27611	5.157	ug/ml	#	1
59) Caprolactam	8.369	55	32169	4.882	ug/ml	#	68
60) 1,2,4,5-Tetrachloroben...	8.869	216	87005	4.897	ug/ml		96
61) Biphenyl	9.175	154	200775	4.891	ug/ml		100
83) Dichloran	10.863	206	16902	4.676	ug/ml	#	75
84) Pentachloronitrobenzene	11.016	237	19356	4.804	ug/ml	#	84
98) Diphenamid	12.074	167	133073	5.323	ug/ml		82

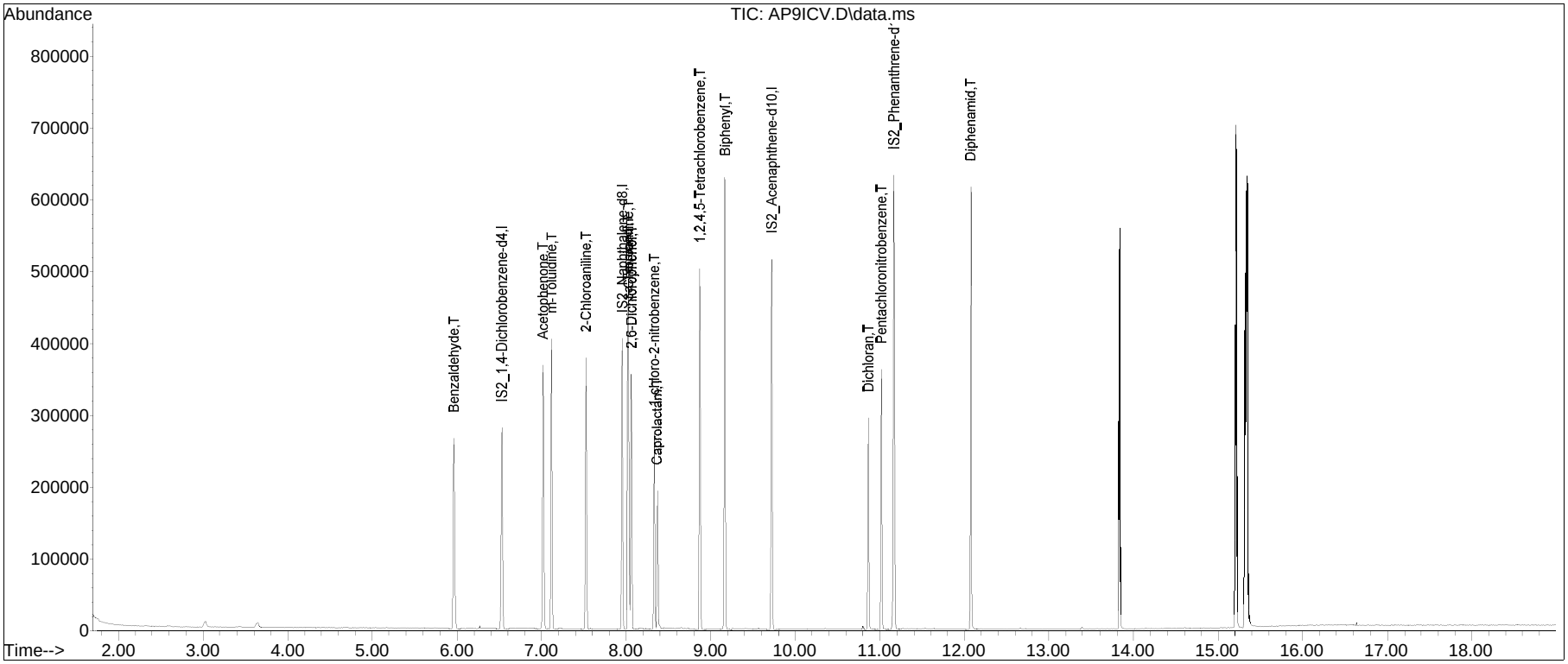
(#) = qualifier out of range (m) = manual integration (+) = signals summed

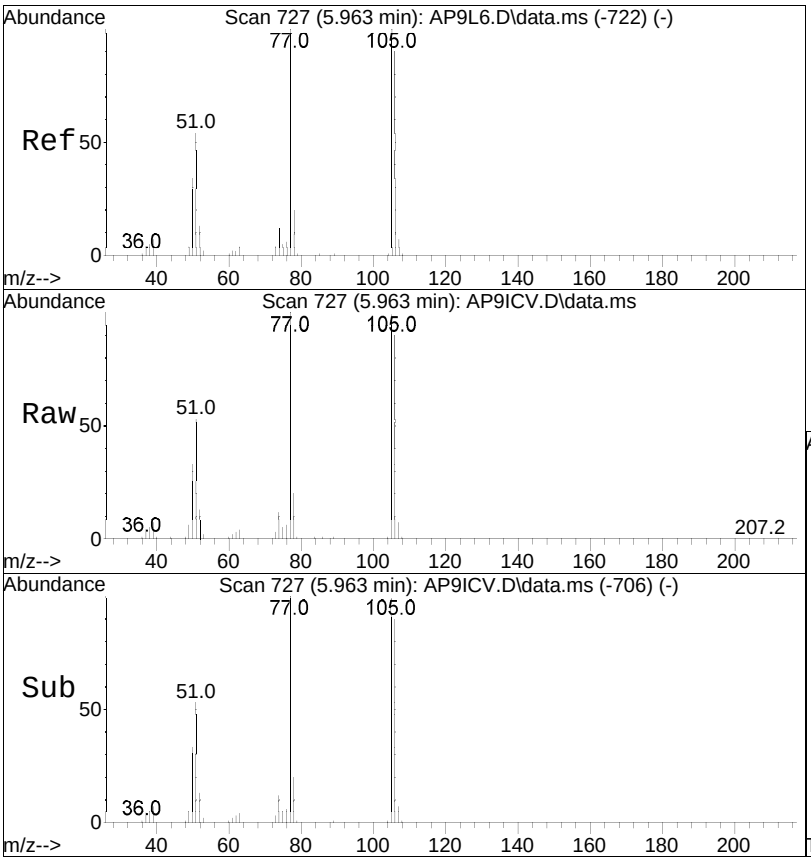
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : AP9ICV.D
Acq On : 3 Jun 2024 3:39 am
Operator : SV107:jg
Sample : CQICV2,32,,AP9ICV Lot# 10689
Misc : WG1929644,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 03 16:28:36 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

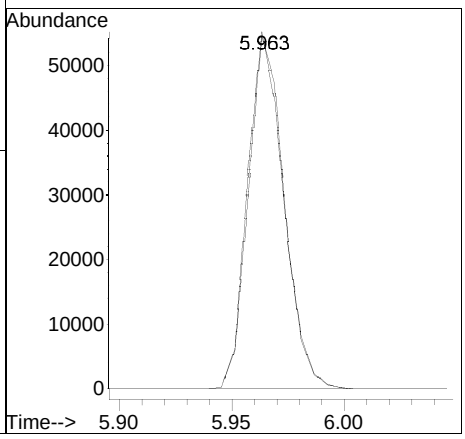


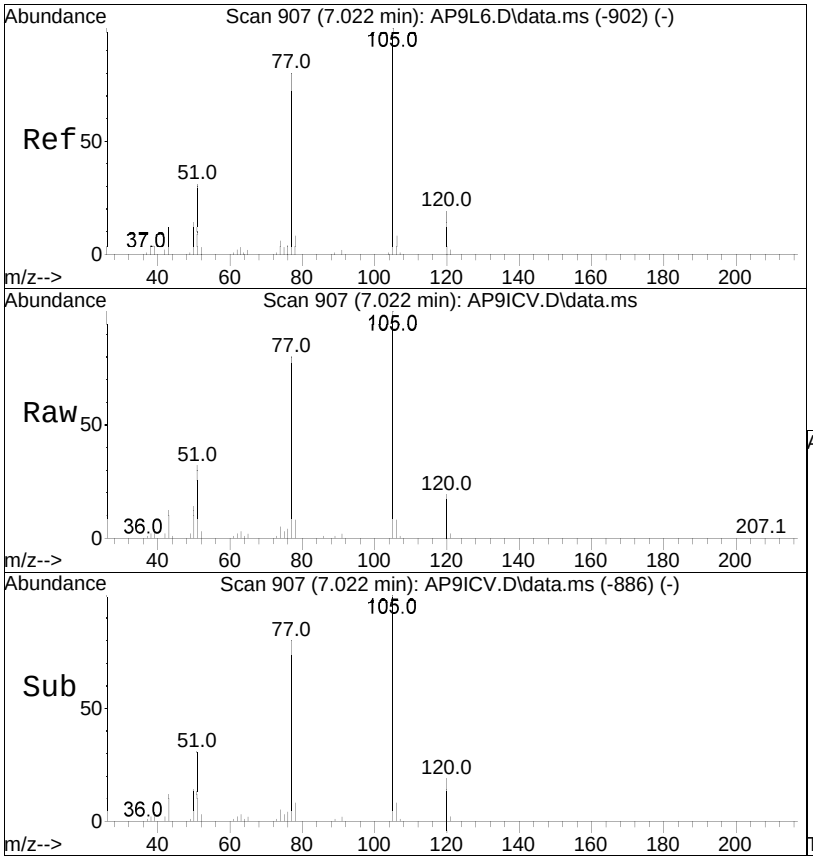


#28
Benzaldehyde
Concen: 4.86 ug/ml
RT: 5.963 min Scan# 727
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 60668

Ion	Ratio	Lower	Upper
105	100		
77	100.4	82.2	123.4

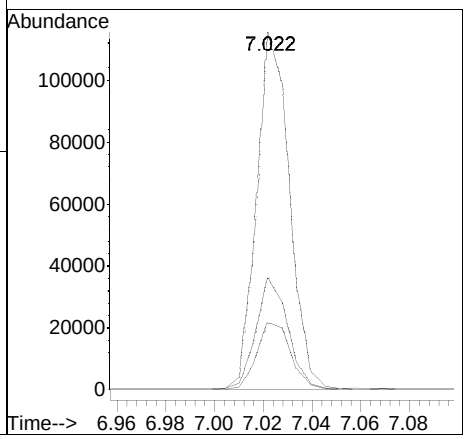


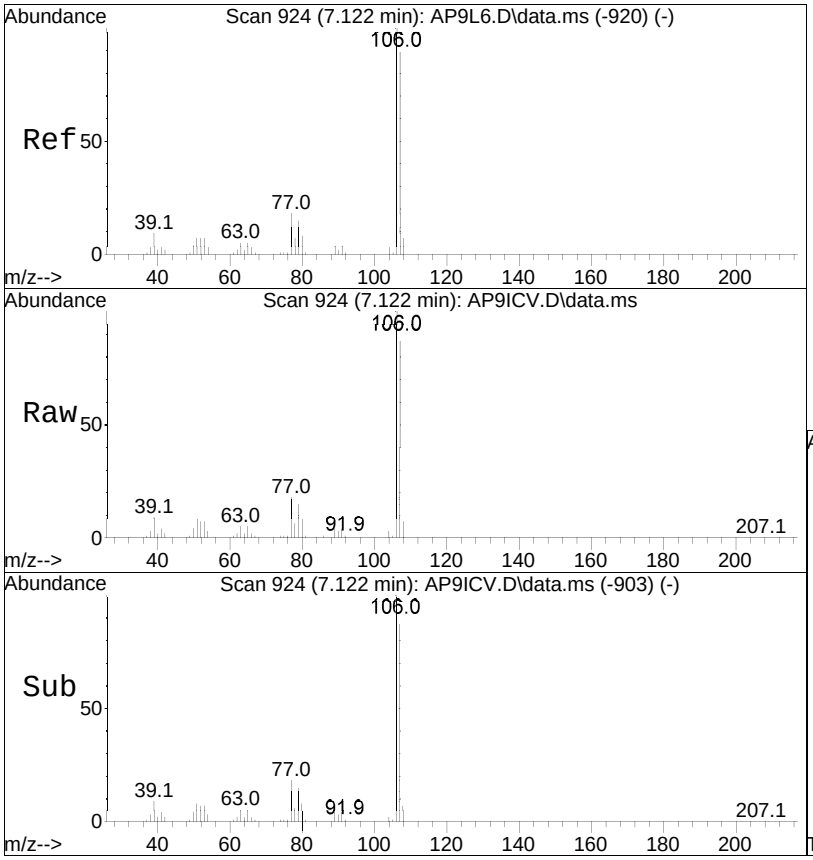


#29
Acetophenone
Concen: 4.93 ug/ml
RT: 7.022 min Scan# 907
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:105 Resp: 106516

Ion	Ratio	Lower	Upper
105	100		
120	19.6	20.5	30.7#
51	30.5	34.9	52.3#

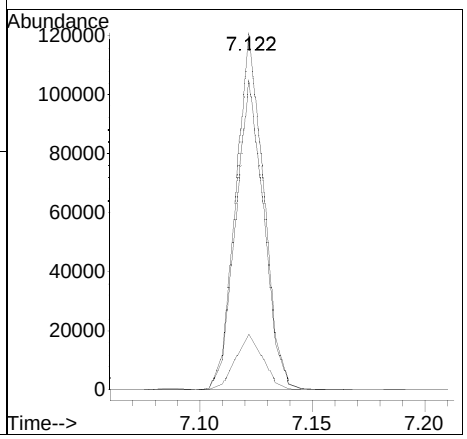


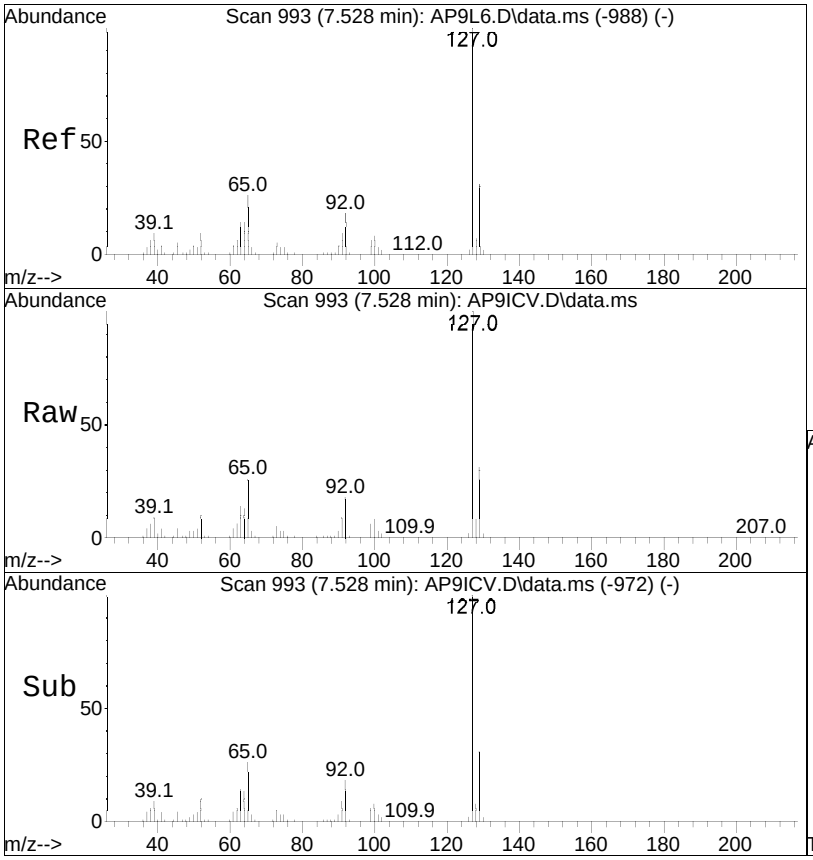


#30
m-Toluidine
Concen: 5.33 ug/ml
RT: 7.122 min Scan# 924
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:106 Resp: 103936

Ion	Ratio	Lower	Upper
106	100		
107	87.7	75.7	113.5
79	15.5	11.8	17.8

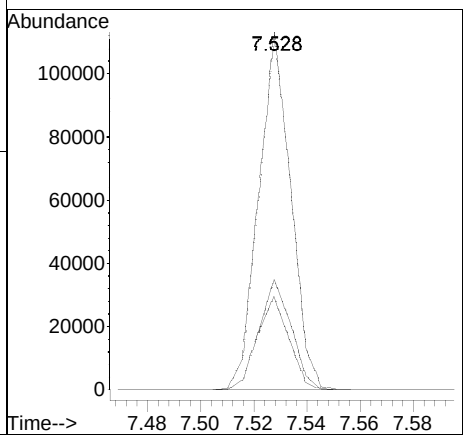


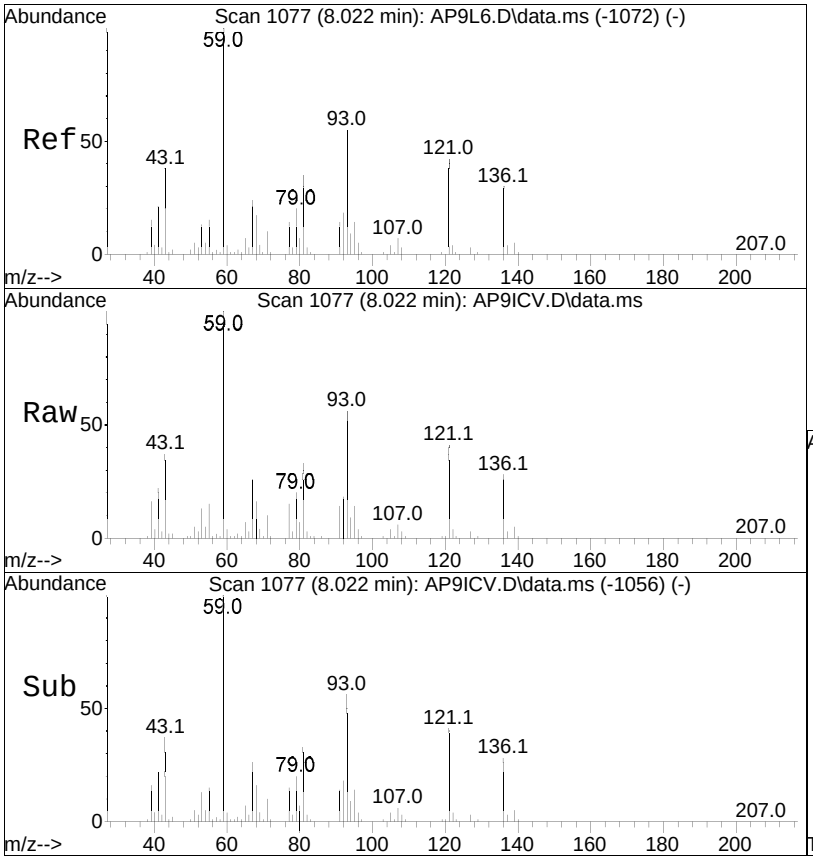


#31
2-Chloroaniline
Concen: 4.96 ug/ml
RT: 7.528 min Scan# 993
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:127 Resp: 93473

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.9	38.9
65	26.1	26.3	39.5#

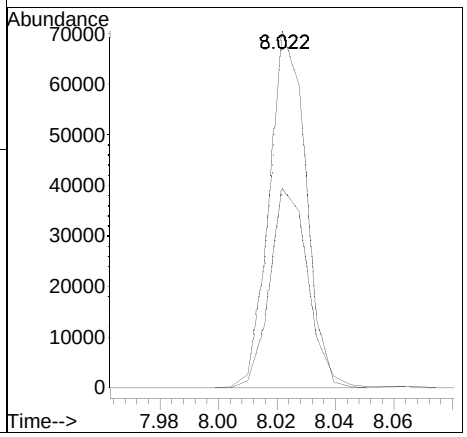


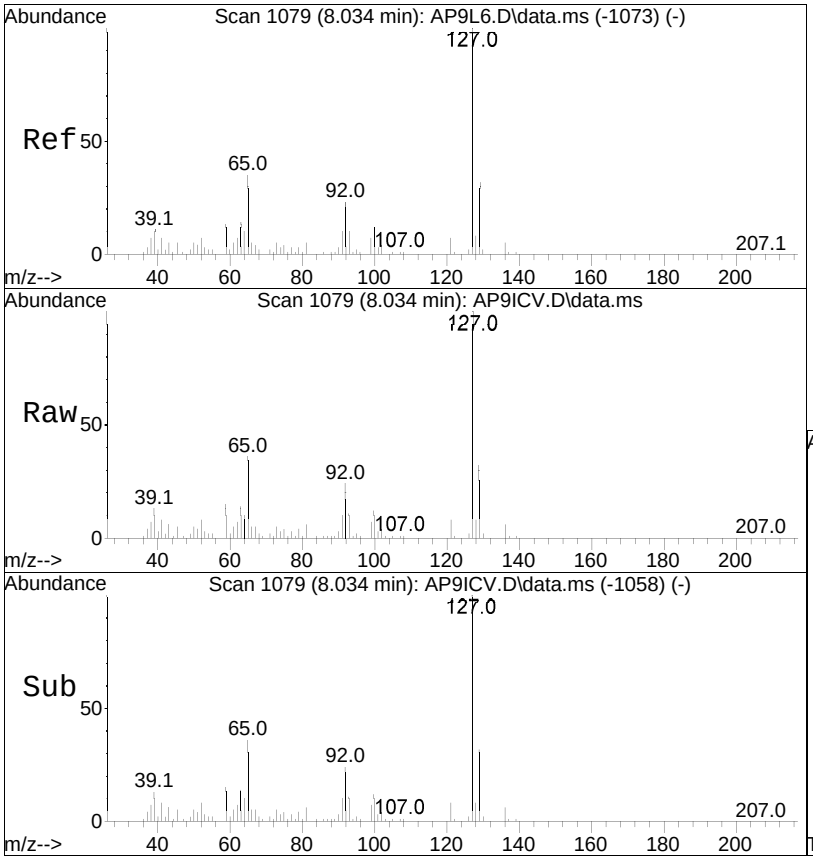


#55
a-Terpineol
Concen: 4.99 ug/ml
RT: 8.022 min Scan# 1077
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 59 Resp: 60976

Ion	Ratio	Lower	Upper
59	100		
93	59.0	35.6	53.4#

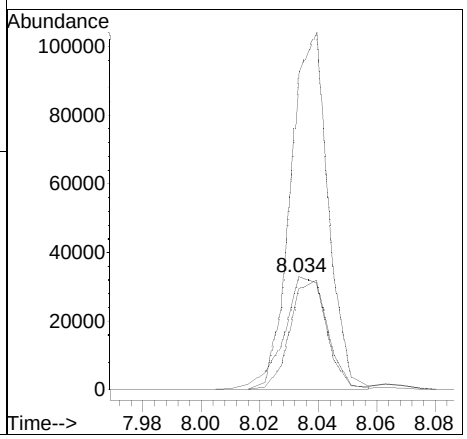


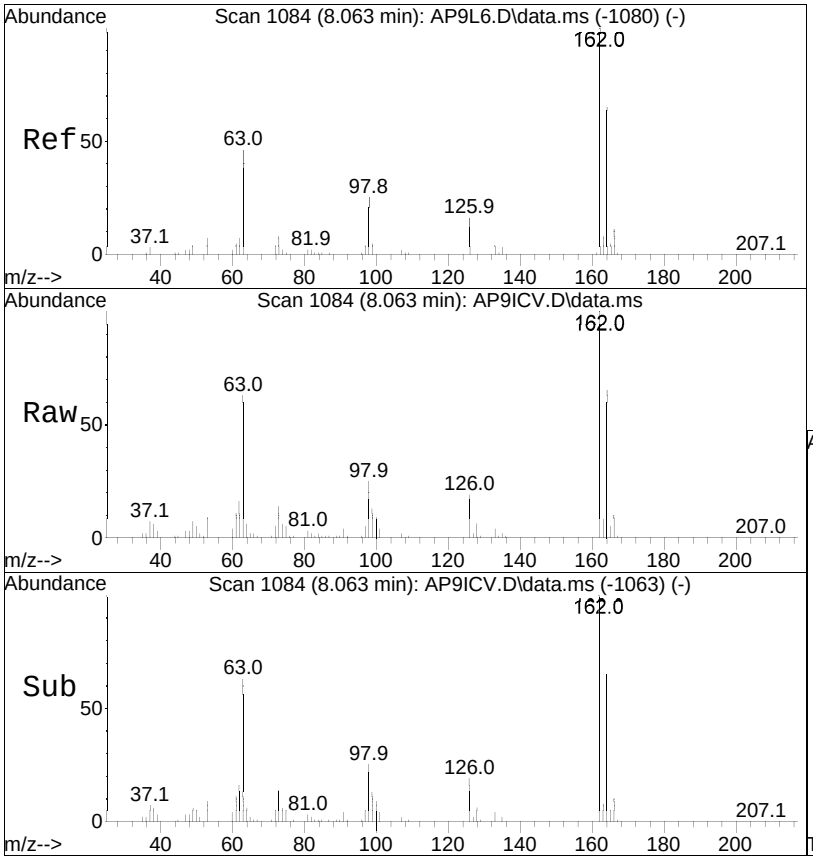


#56
3-Chloroaniline
Concen: 5.11 ug/ml
RT: 8.034 min Scan# 1079
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 65 Resp: 33250

Ion	Ratio	Lower	Upper
65	100		
127	279.0	243.2	364.8
129	87.0	78.8	118.2

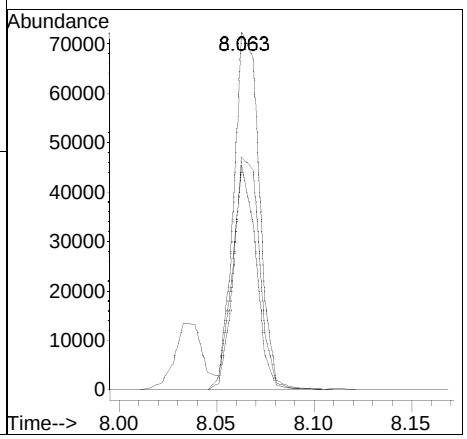


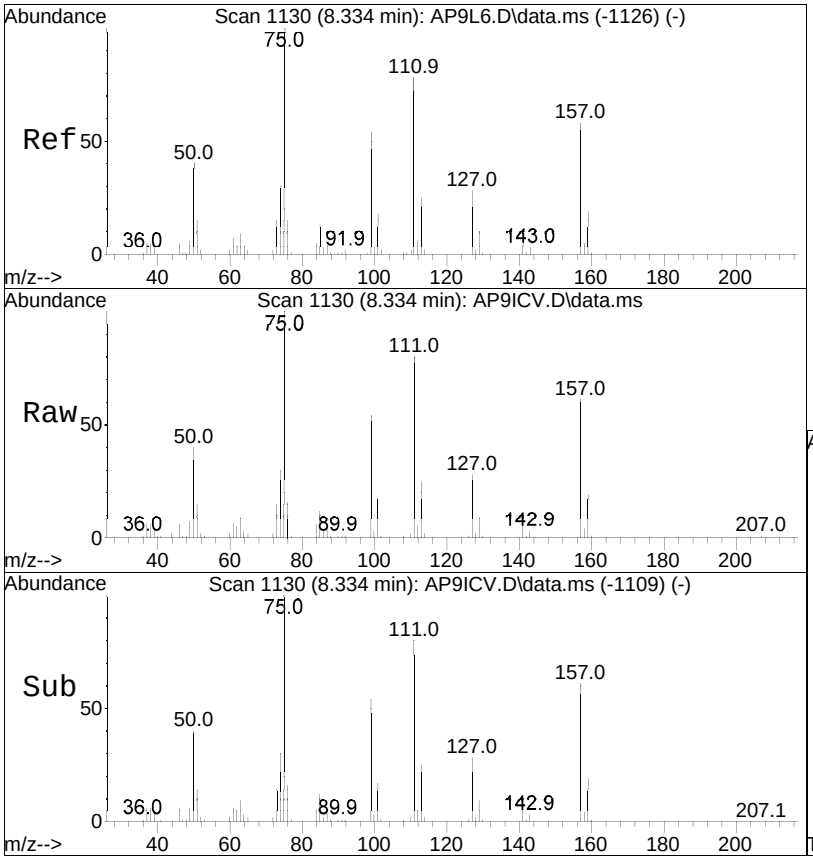


#57
2,6-Dichlorophenol
Concen: 5.15 ug/ml
RT: 8.063 min Scan# 1084
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:162 Resp: 66015

Ion	Ratio	Lower	Upper
162	100		
164	65.3	51.1	76.7
63	56.8	60.8	91.2#

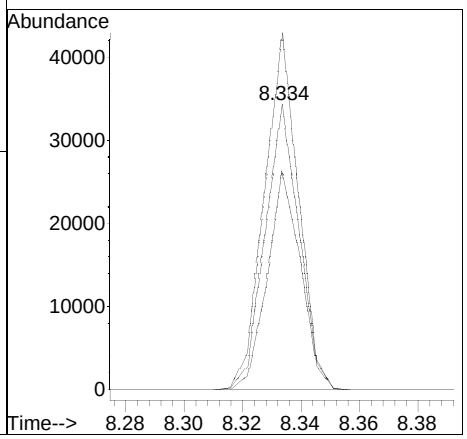


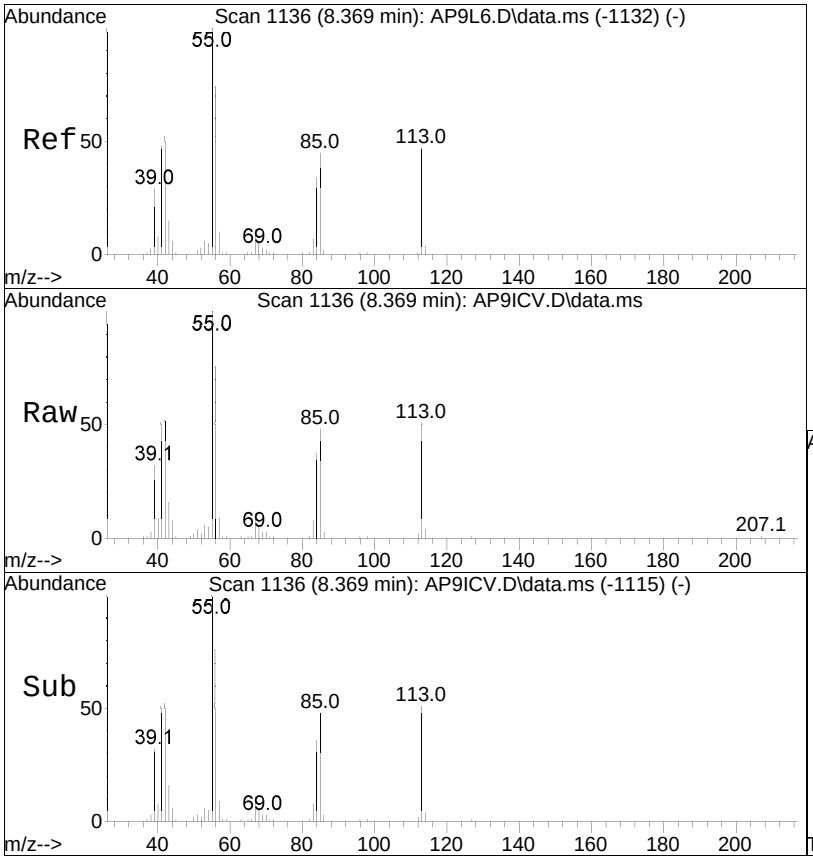


#58
1-chloro-2-nitrobenzene
Concen: 5.16 ug/ml
RT: 8.334 min Scan# 1130
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:111 Resp: 27611

Ion	Ratio	Lower	Upper
111	100		
157	74.9	0.0	0.0#
75	125.2	28.2	42.2#

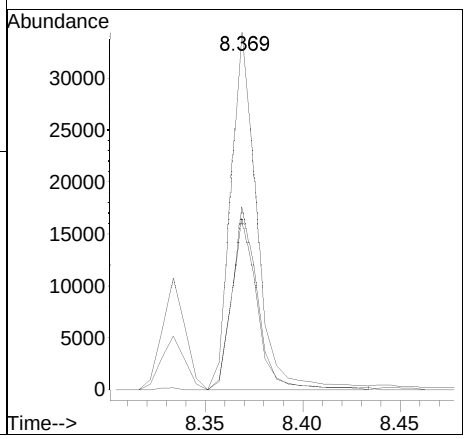


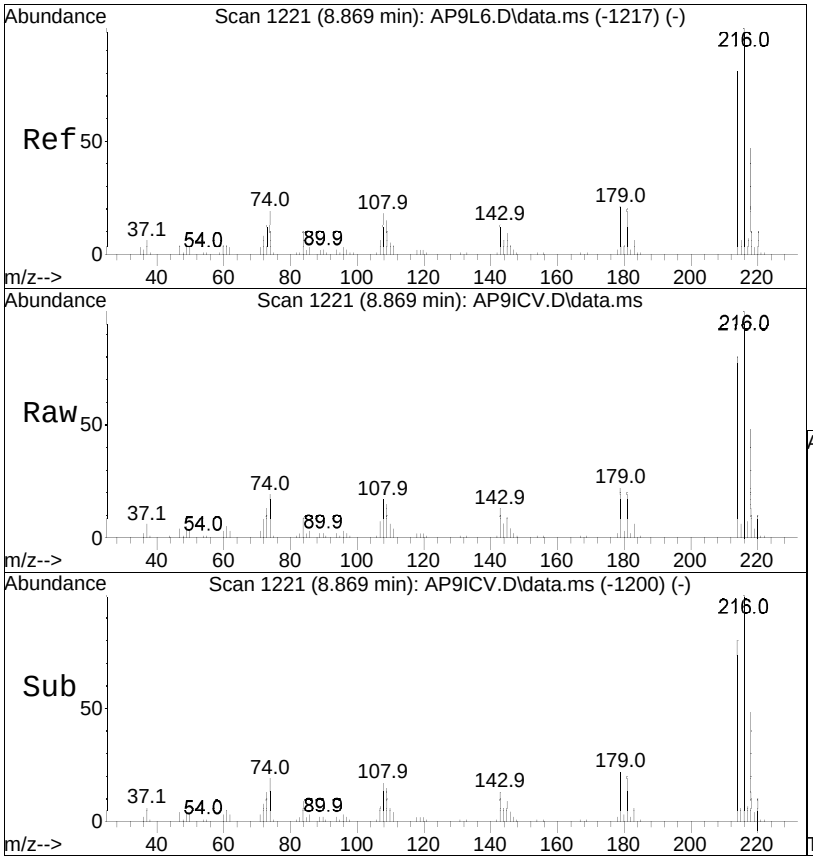


#59
Caprolactam
Concen: 4.88 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion: 55 Resp: 32169

Ion	Ratio	Lower	Upper
55	100		
85	47.5	19.8	29.6#
113	50.2	29.6	44.4#

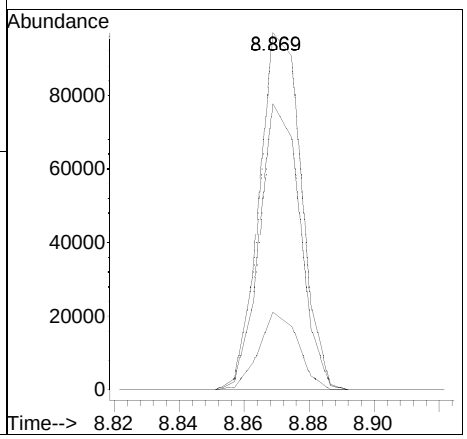


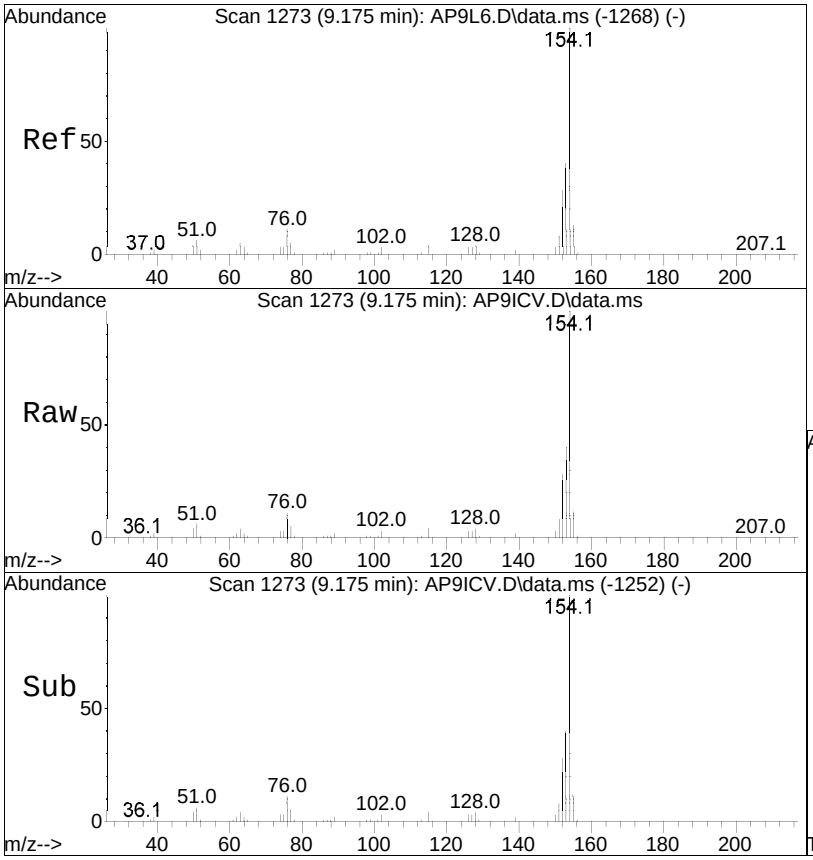


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.90 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:216 Resp: 87005

Ion	Ratio	Lower	Upper
216	100		
214	77.3	63.7	95.5
179	20.5	19.0	28.6

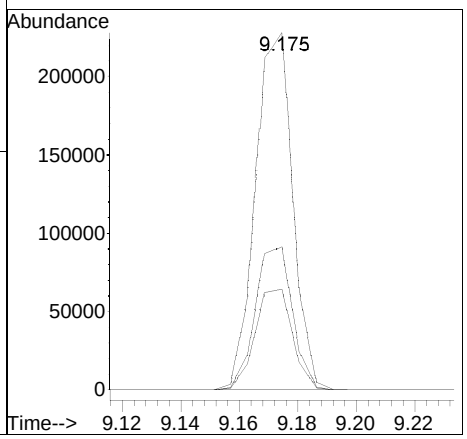


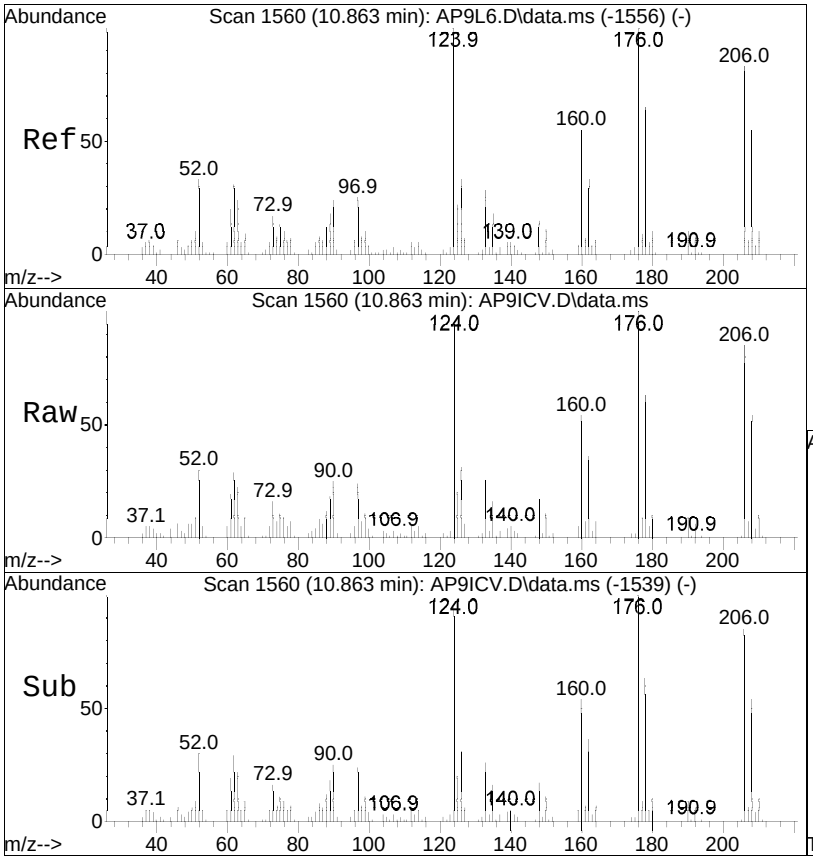


#61
Biphenyl
Concen: 4.89 ug/ml
RT: 9.175 min Scan# 1273
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:154 Resp: 200775

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	28.6	22.5	33.7

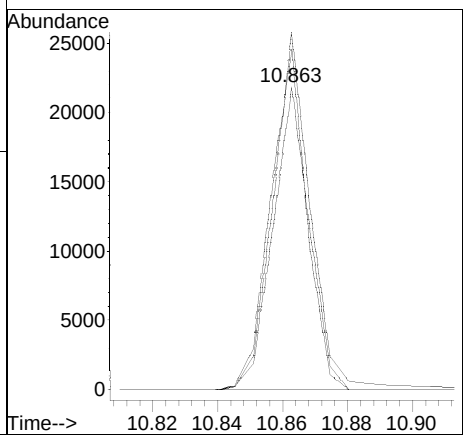


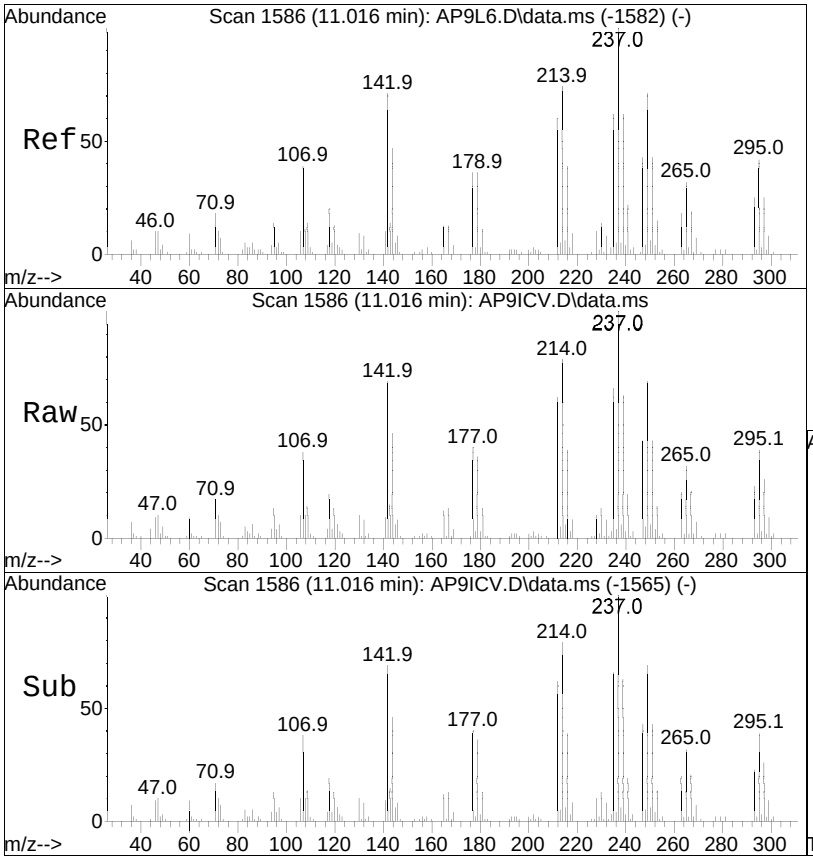


#83
Dichloran
Concen: 4.68 ug/ml
RT: 10.863 min Scan# 1560
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:206 Resp: 16902

Ion	Ratio	Lower	Upper
206	100		
176	122.7	104.6	157.0
124	111.4	130.5	195.7#

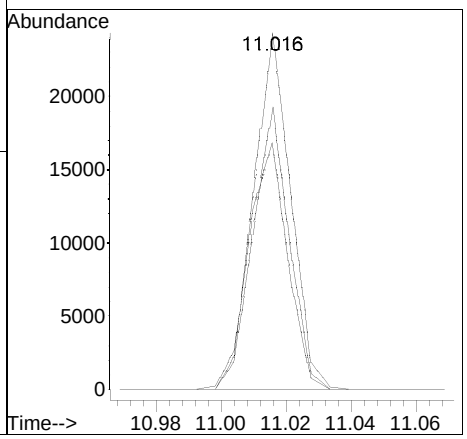


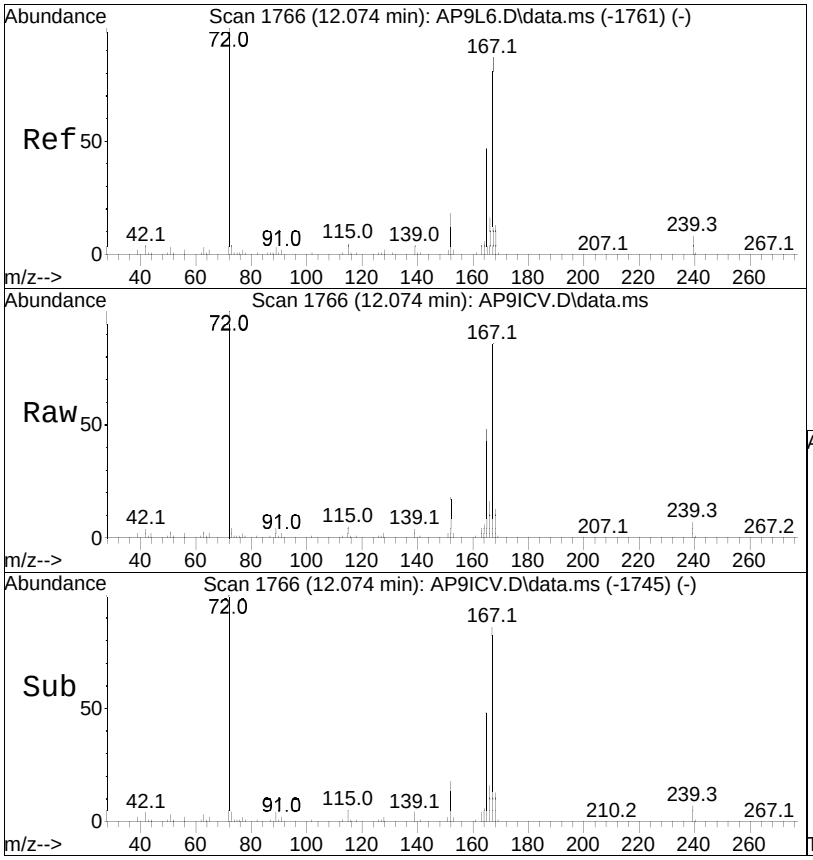


#84
Pentachloronitrobenzene
Concen: 4.80 ug/ml
RT: 11.016 min Scan# 1586
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:237 Resp: 19356

Ion	Ratio	Lower	Upper
237	100		
142	72.7	77.0	115.4#
214	77.0	58.2	87.4

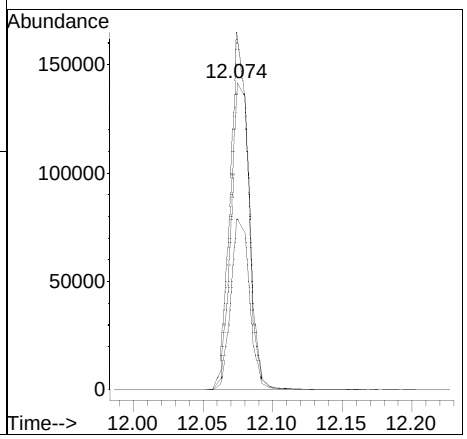




#98
Diphenamid
Concen: 5.32 ug/ml
RT: 12.074 min Scan# 1766
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 3 Jun 2024 3:39 am

Tgt Ion:167 Resp: 133073

Ion	Ratio	Lower	Upper
167	100		
72	110.2	109.7	164.5
165	55.5	41.8	62.6



Manual Integration Report

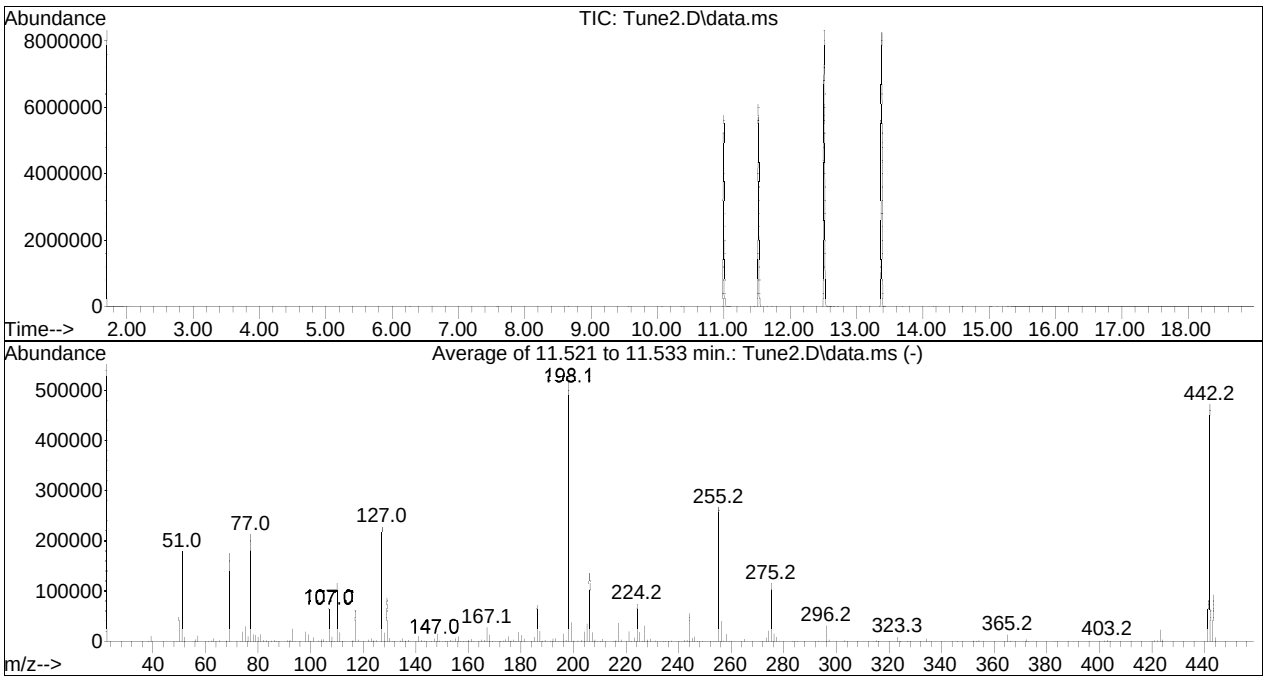
Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: AP9ICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 3:39 am	Instrument	: SV107
Sample	: CQICV2,32,,AP9ICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

There are no manual integrations or false positives in this file.

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024



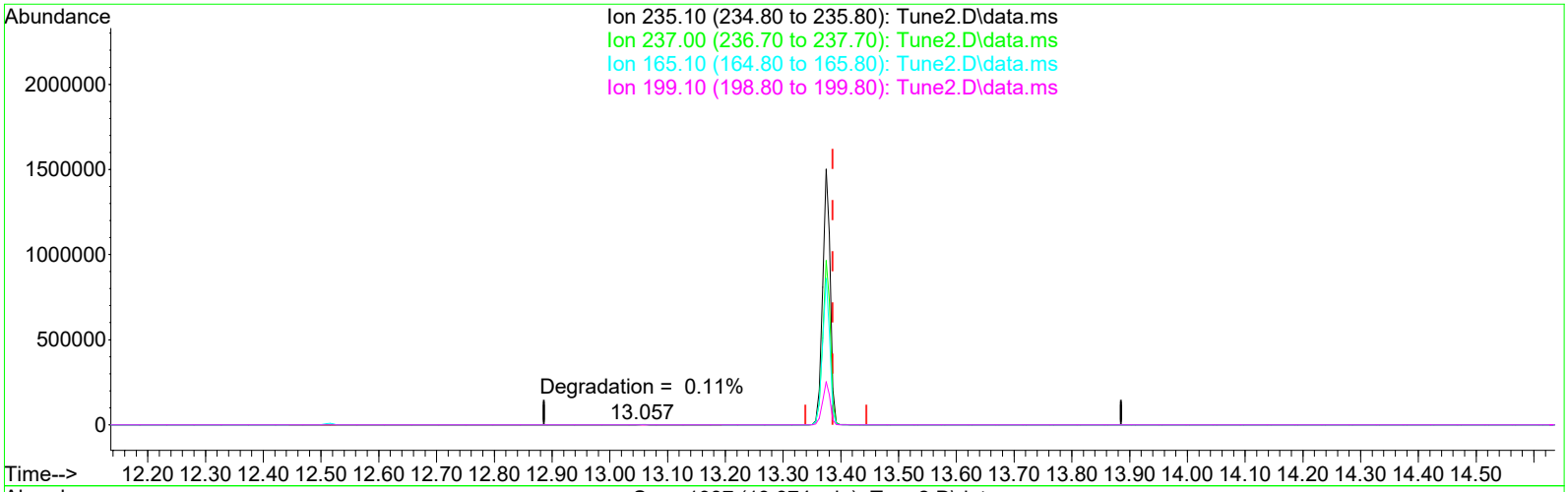
Spectrum Information: Average of 11.521 to 11.533 min.

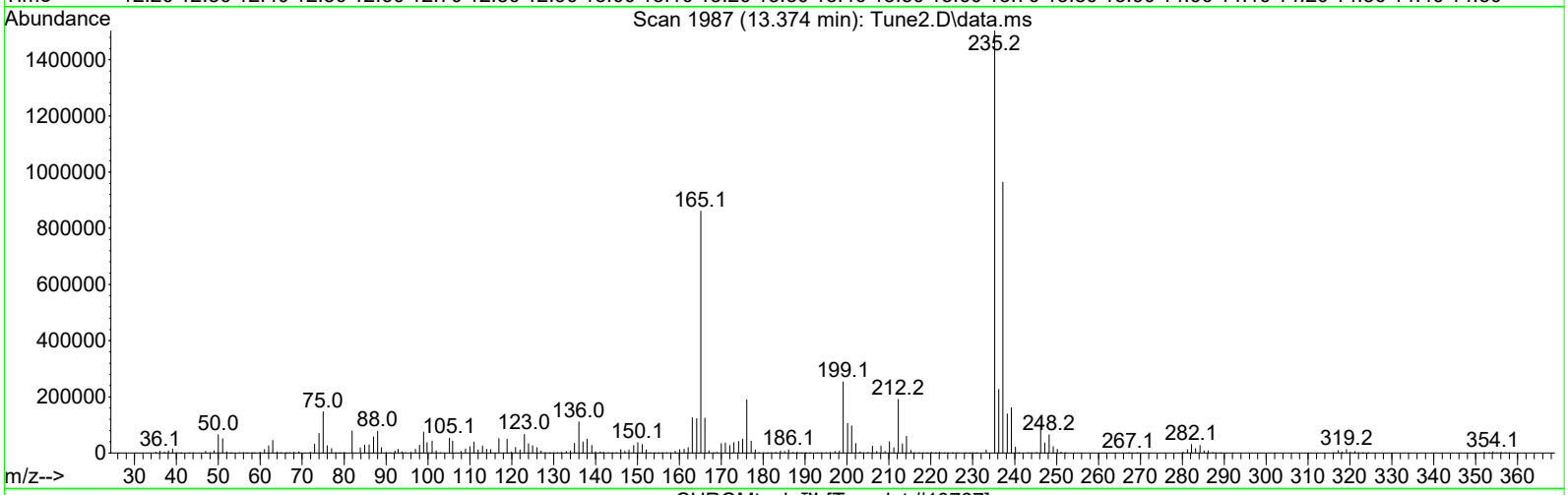
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.1	179126	PASS
68	69	0.00	2	1.6	2727	PASS
69	69	100	100	100.0	175083	PASS
70	69	0.00	2	0.5	958	PASS
127	198	10	80	43.3	227533	PASS
197	198	0.00	2	0.7	3814	PASS
198	198	100	100	100.0	525056	PASS
199	198	5	9	6.8	35925	PASS
275	198	10	60	21.9	115021	PASS
365	198	1	100	2.5	13285	PASS
441	442	0.01	24	17.1	80432	PASS
442	198	50	100	89.8	471531	PASS
443	442	15	24	19.6	92475	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(6) DDT (T)

13.374min (-0.012) 225.28

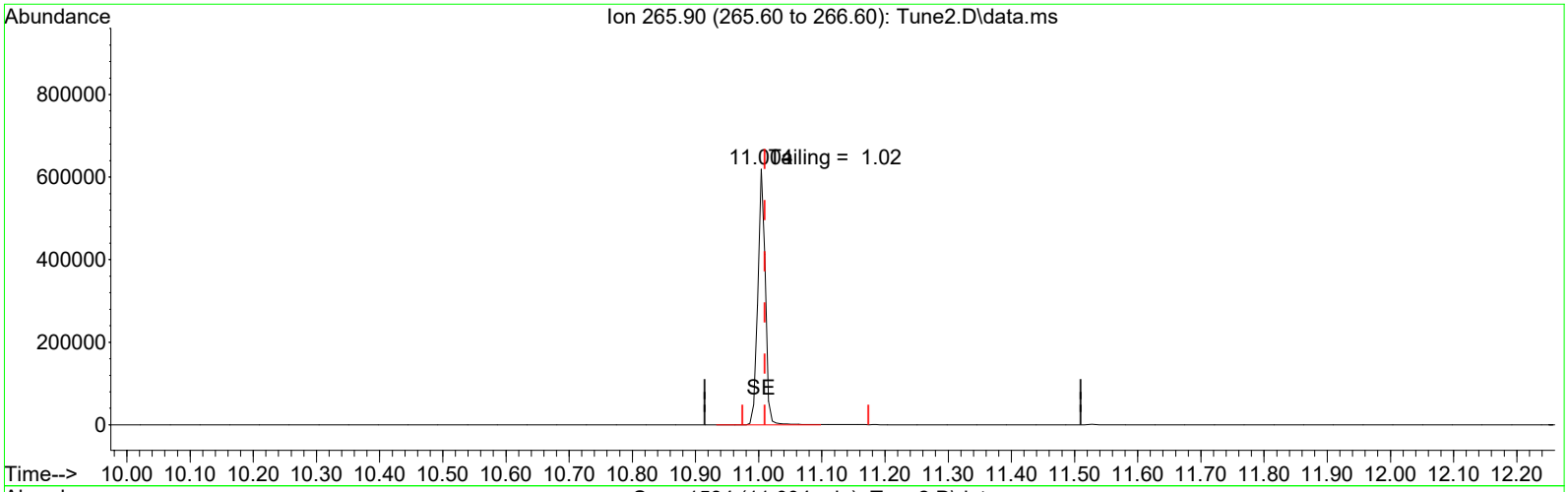
response 1373258

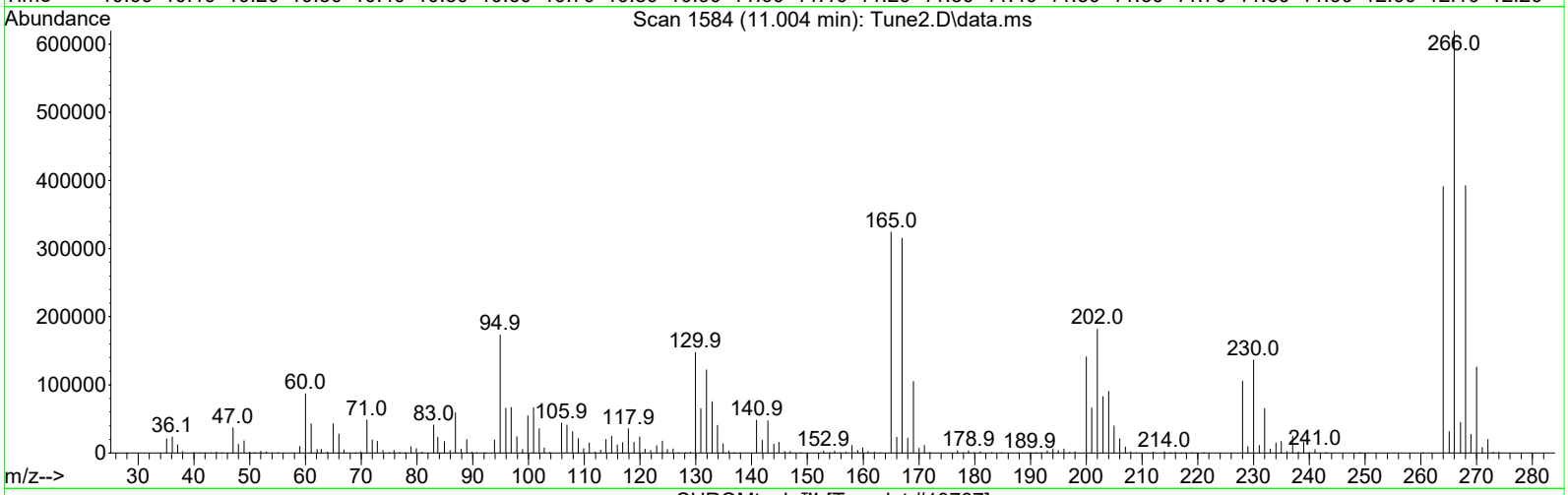
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	64.18
165.10	55.40	54.82
199.10	16.20	16.61

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(1) Pentachlorophenol (T)

11.004min (-0.006) 246.25

response 517216

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

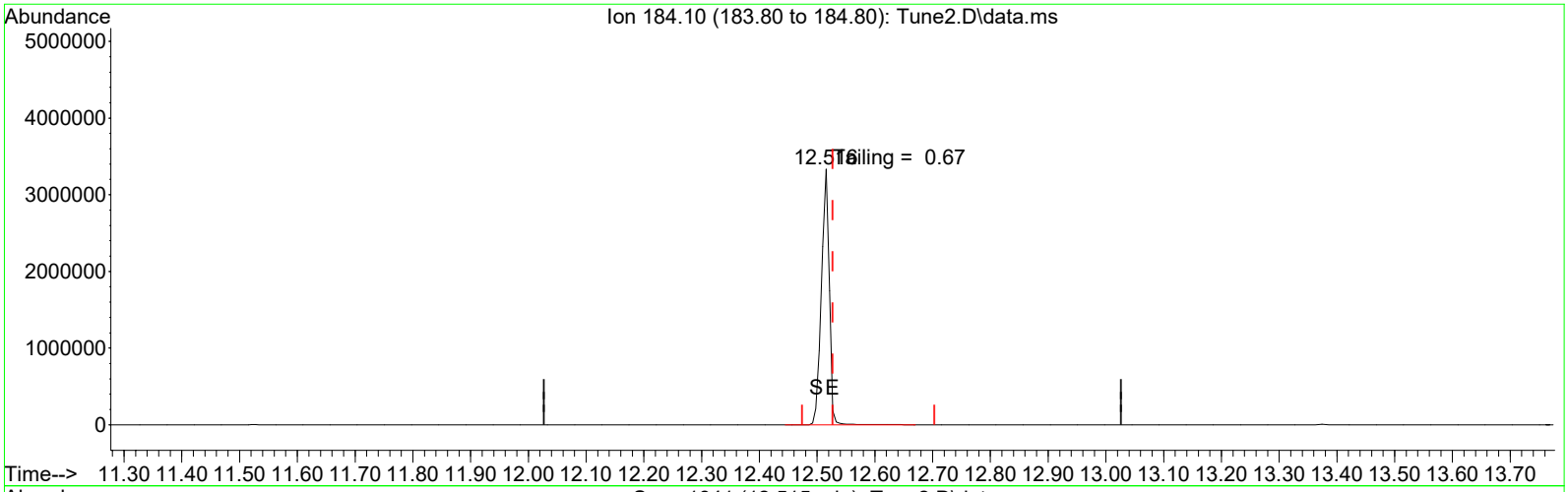
Duplicate Retention Times

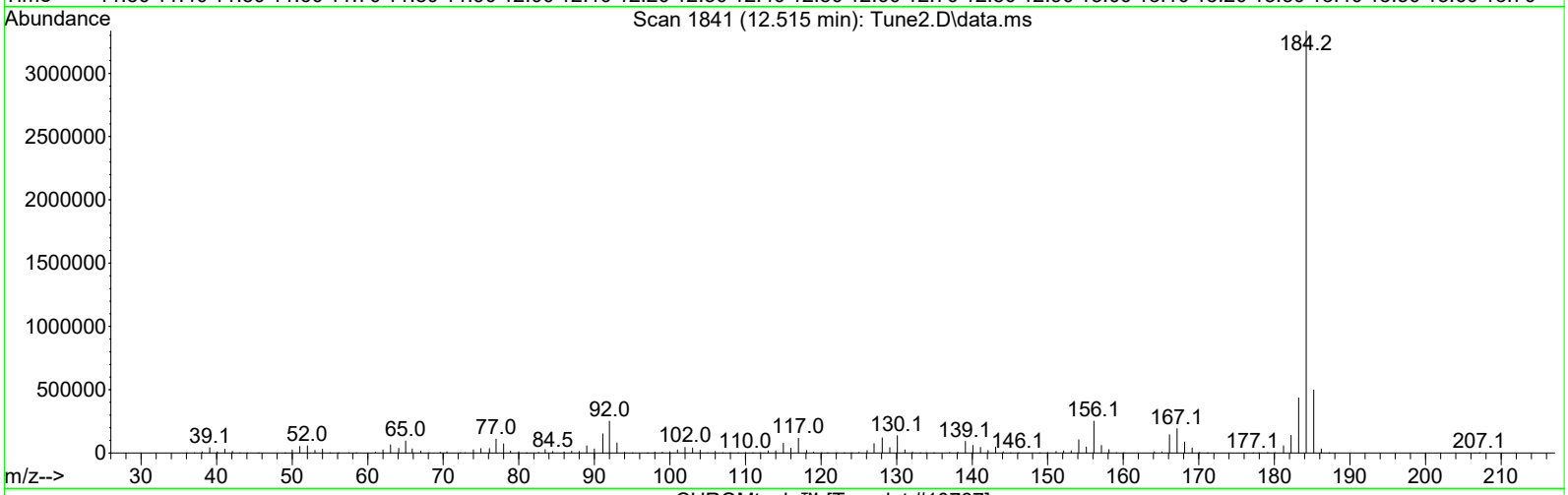
(2) DFTPP 198.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240602ical\
Data File : Tune2.D
Acq On : 3 Jun 2024 4:04 am
Operator : SV107:jg
Sample : Tune lot #10767
Misc : WG1929644,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 03 10:05:04 2024
Quant Method : I:\8270\SV107\240602ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:05:17 2024
Response via : Initial Calibration





CHROMtools™ [Tune lot #10767]

(3) Benzidine (T)

12.515min (-0.011) 309.73

response 3153109

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.528	152	47256	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 97.26%			
85) IS3_Acenaphthene-d10	9.728	164	107768	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 99.45%			
99) IS3_Phenanthrene-d10	11.169	188	235749	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 101.01%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	888155	51.448	ug/ml#	45
86) Atrazine	10.945	200	640804	48.965	ug/ml	96
100) n-Octadecane	11.145	57	1411913	65.046	ug/ml#	1
101) Parathion	11.963	109	364006	52.963	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.263	212	2636452	58.961	ug/ml	98

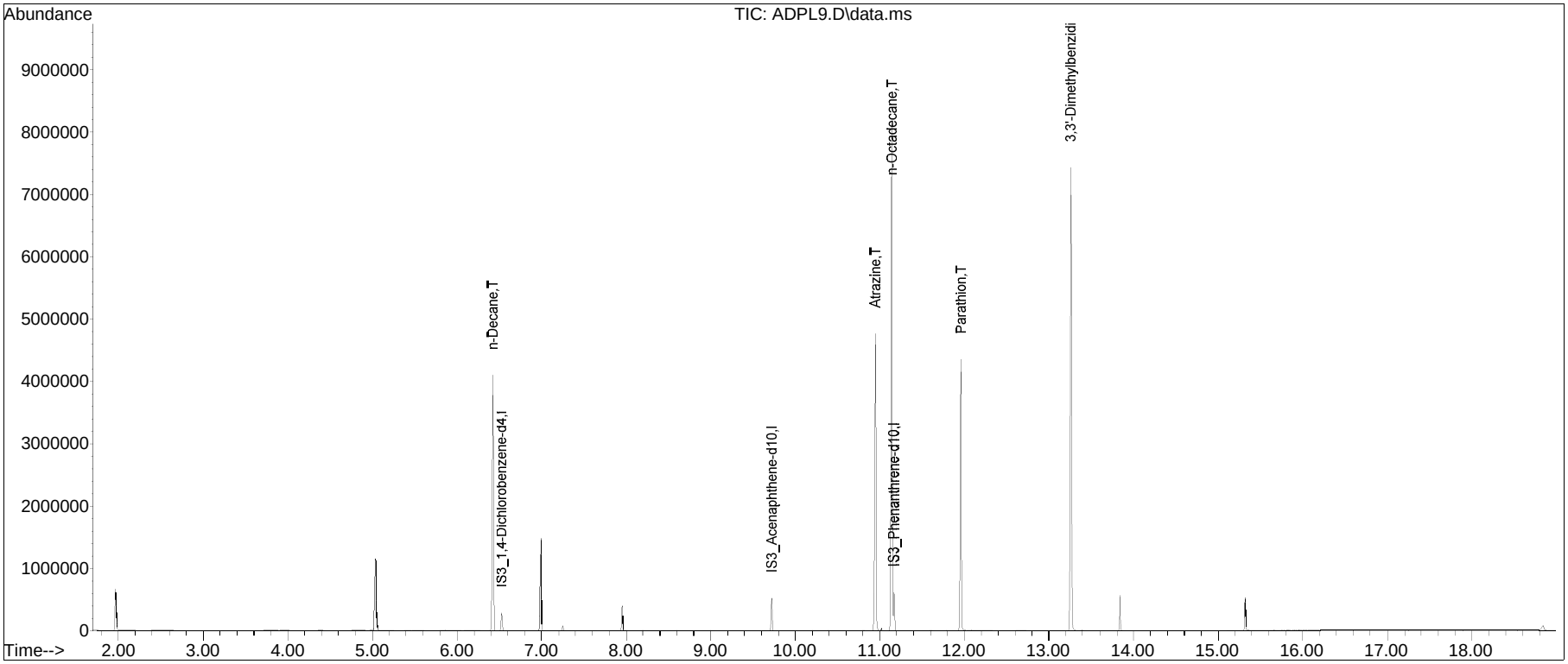
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL9.D
Acq On : 3 Jun 2024 4:29 am
Operator : SV107:jg
Sample : IL2,32,,ADPL50 Lot# 10709
Misc : WG1929644,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 03 16:08:07 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL9.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:29 am	Instrument	: SV107
Sample	: IL2,32,,ADPL50 Lot# 10709	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51248	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	105.48%		
85) IS3_Acenaphthene-d10	9.727	164	116945	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	107.92%		
99) IS3_Phenanthrene-d10	11.169	188	253101	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	108.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	454019	24.251	ug/ml#	44
86) Atrazine	10.945	200	311783	26.312	ug/ml	96
100) n-Octadecane	11.145	57	687493	29.501	ug/ml#	1
101) Parathion	11.957	109	158582	26.950	ug/ml	98
102) 3,3'-Dimethylbenzidine	13.263	212	1265195	27.816	ug/ml	98

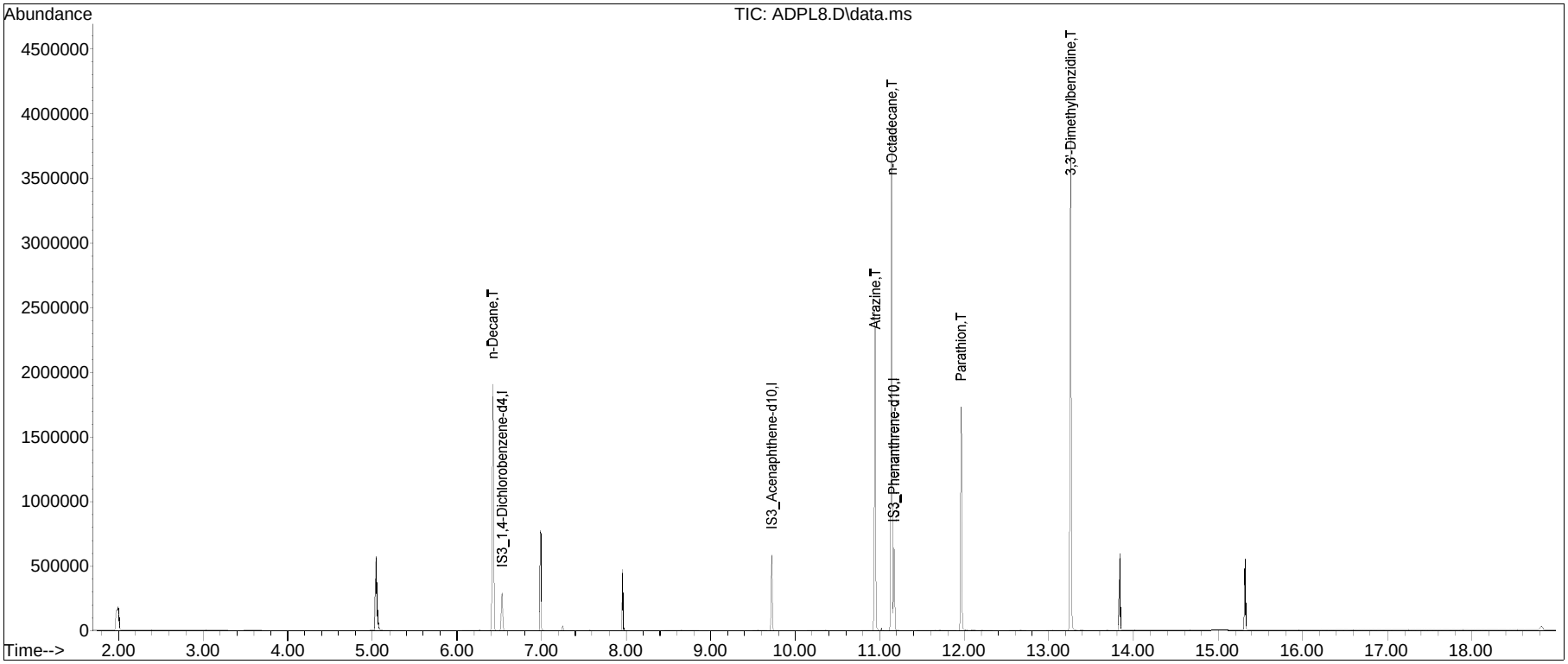
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL8.D
Acq On : 3 Jun 2024 4:54 am
Operator : SV107:jg
Sample : IL3,32,,ADPL25 Lot# 10710
Misc : WG1929644,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 03 16:07:48 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL8.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 4:54 am	Instrument	: SV107
Sample	: IL3,32,,ADPL25 Lot# 10710	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51597	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.20%		
85) IS3_Acenaphthene-d10	9.728	164	112556	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	103.87%		
99) IS3_Phenanthrene-d10	11.169	188	243667	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	104.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	181344	9.621	ug/ml#	44
86) Atrazine	10.939	200	109374	11.099	ug/ml	96
100) n-Octadecane	11.139	57	260309	11.603	ug/ml#	1
101) Parathion	11.957	109	46804	10.070	ug/ml	99
102) 3,3'-Dimethylbenzidine	13.257	212	445526	10.874	ug/ml	98

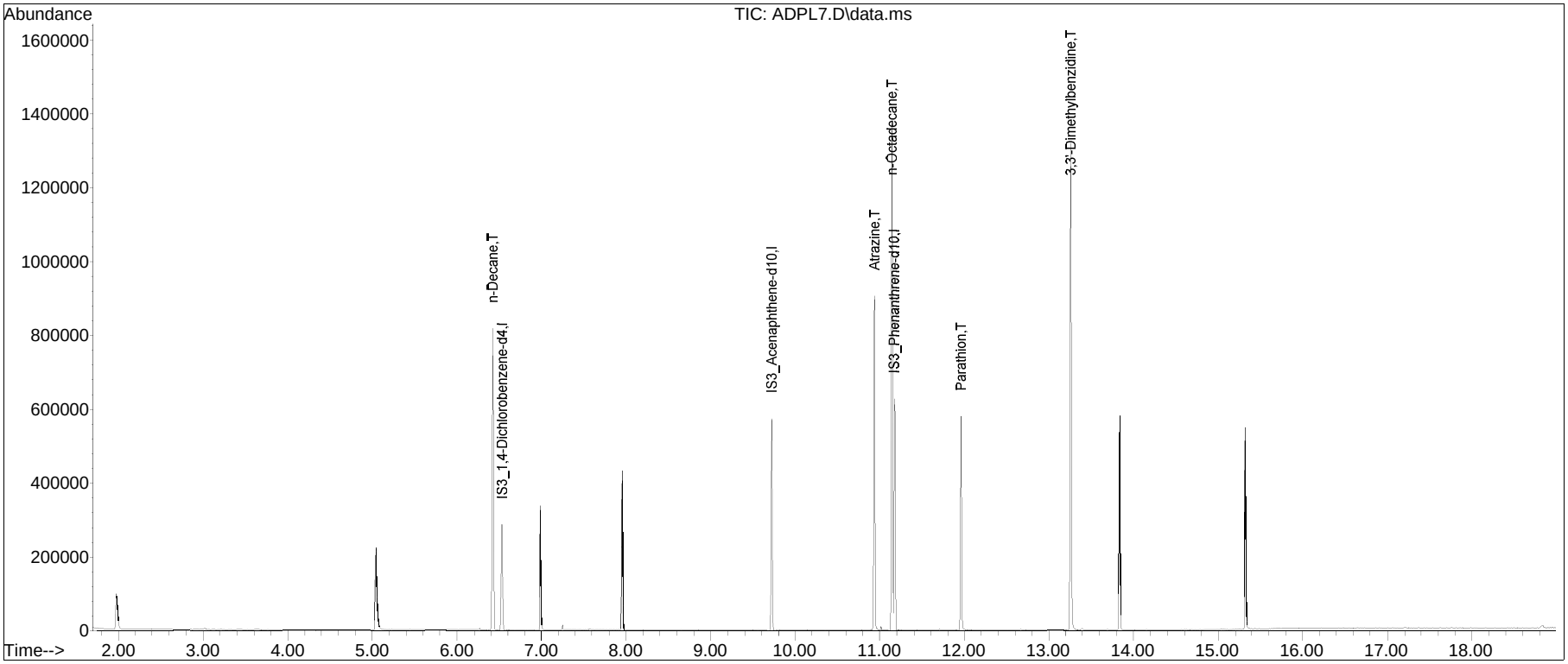
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL7.D
Acq On : 3 Jun 2024 5:19 am
Operator : SV107:jg
Sample : IL4,32,,ADPL10 Lot# 10711
Misc : WG1929644,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 03 16:07:29 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL7.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:19 am	Instrument	: SV107
Sample	: IL4,32,,ADPL10 Lot# 10711	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48587	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.728	164	108359	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	11.174	188	233400	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	81218	4.576	ug/ml#	43
86) Atrazine	10.933	200	48202	5.430	ug/ml	96
100) n-Octadecane	11.139	57	115995	5.398	ug/ml#	1
101) Parathion	11.957	109	18001	4.531	ug/ml	96
102) 3,3'-Dimethylbenzidine	13.257	212	195495	5.424	ug/ml	99

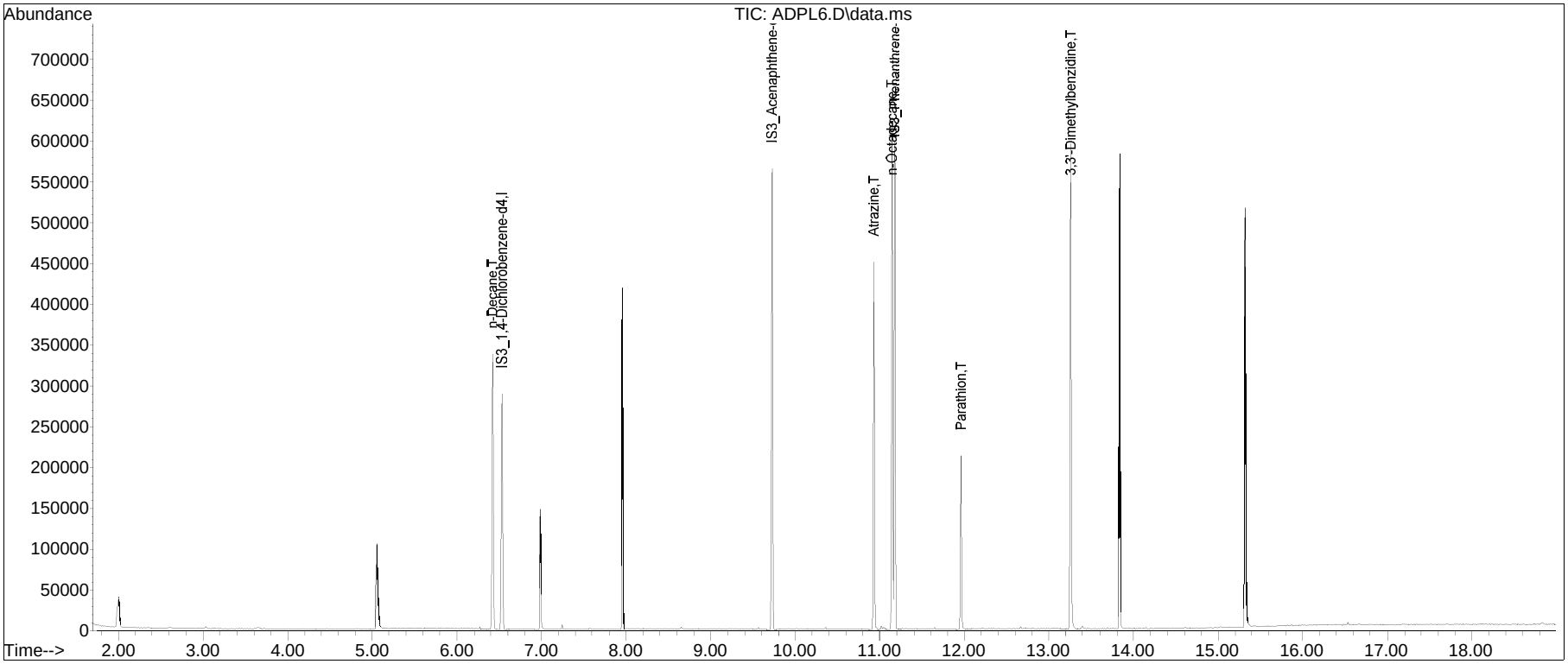
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL6.D
Acq On : 3 Jun 2024 5:45 am
Operator : SV107:jg
Sample : IL5,32,,ADPL5 Lot# 10712
Misc : WG1929644,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 03 16:07:12 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL6.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 5:45 am	Instrument	: SV107
Sample	: IL5,32,,ADPL5 Lot# 10712	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.533	152	48599	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.02%		
85) IS3_Acenaphthene-d10	9.727	164	105030	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	96.93%		
99) IS3_Phenanthrene-d10	11.168	188	227320	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	97.40%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	41542	2.340	ug/ml#	44
86) Atrazine	10.933	200	21586	2.630	ug/ml	96
100) n-Octadecane	11.145	57	53141	2.539	ug/ml#	1
101) Parathion	11.957	109	7173	2.132	ug/ml	94
102) 3,3'-Dimethylbenzidine	13.257	212	77675	2.666	ug/ml	99

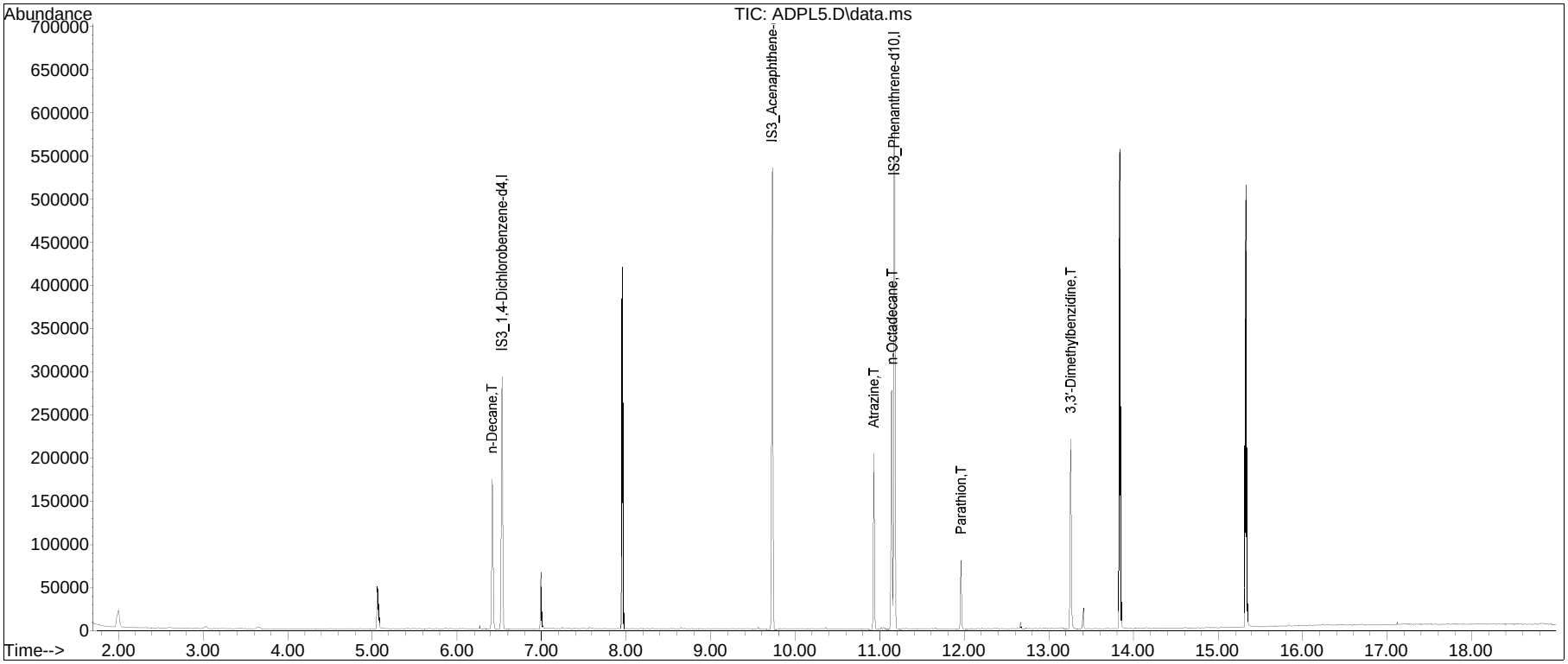
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL5.D
Acq On : 3 Jun 2024 6:10 am
Operator : SV107:jg
Sample : IL6,32,,ADPL2.5 Lot# 10713
Misc : WG1929644,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 03 16:06:54 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL5.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:10 am	Instrument	: SV107
Sample	: IL6,32,,ADPL2.5 Lot# 10713	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	46933	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery = 96.60%			
85) IS3_Acenaphthene-d10	9.727	164	101637	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery = 93.80%			
99) IS3_Phenanthrene-d10	11.169	188	214729	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery = 92.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	17888	1.043	ug/ml#	44
86) Atrazine	10.933	200	8768	1.170	ug/ml	96
100) n-Octadecane	11.139	57	22089	1.117	ug/ml#	1
101) Parathion	11.957	109	2809	1.119	ug/ml	97
102) 3,3'-Dimethylbenzidine	13.257	212	28638	1.502	ug/ml	99

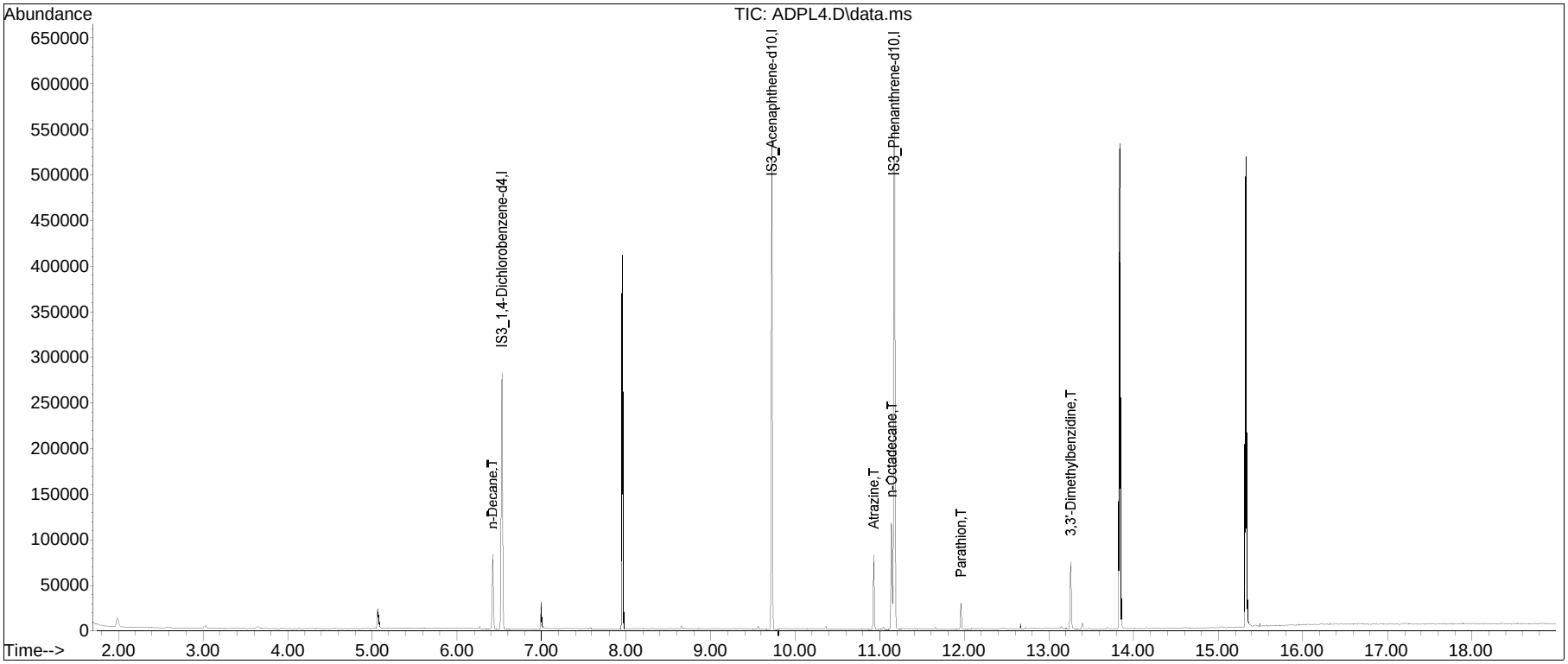
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL4.D
Acq On : 3 Jun 2024 6:35 am
Operator : SV107:jg
Sample : IL7,32,,ADPL1 Lot# 10714
Misc : WG1929644,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 03 16:06:32 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL4.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 6:35 am	Instrument	: SV107
Sample	: IL7,32,,ADPL1 Lot# 10714	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	48900	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	100.64%		
85) IS3_Acenaphthene-d10	9.727	164	108367	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	100.01%		
99) IS3_Phenanthrene-d10	11.169	188	232187	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.48%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	8935	0.500	ug/ml#	42
86) Atrazine	10.933	200	4033	0.556	ug/ml	94
100) n-Octadecane	11.139	57	10307	0.482	ug/ml#	1
101) Parathion	11.957	109	1161	0.668	ug/ml#	82
102) 3,3'-Dimethylbenzidine	13.257	212	10182	1.000	ug/ml	97

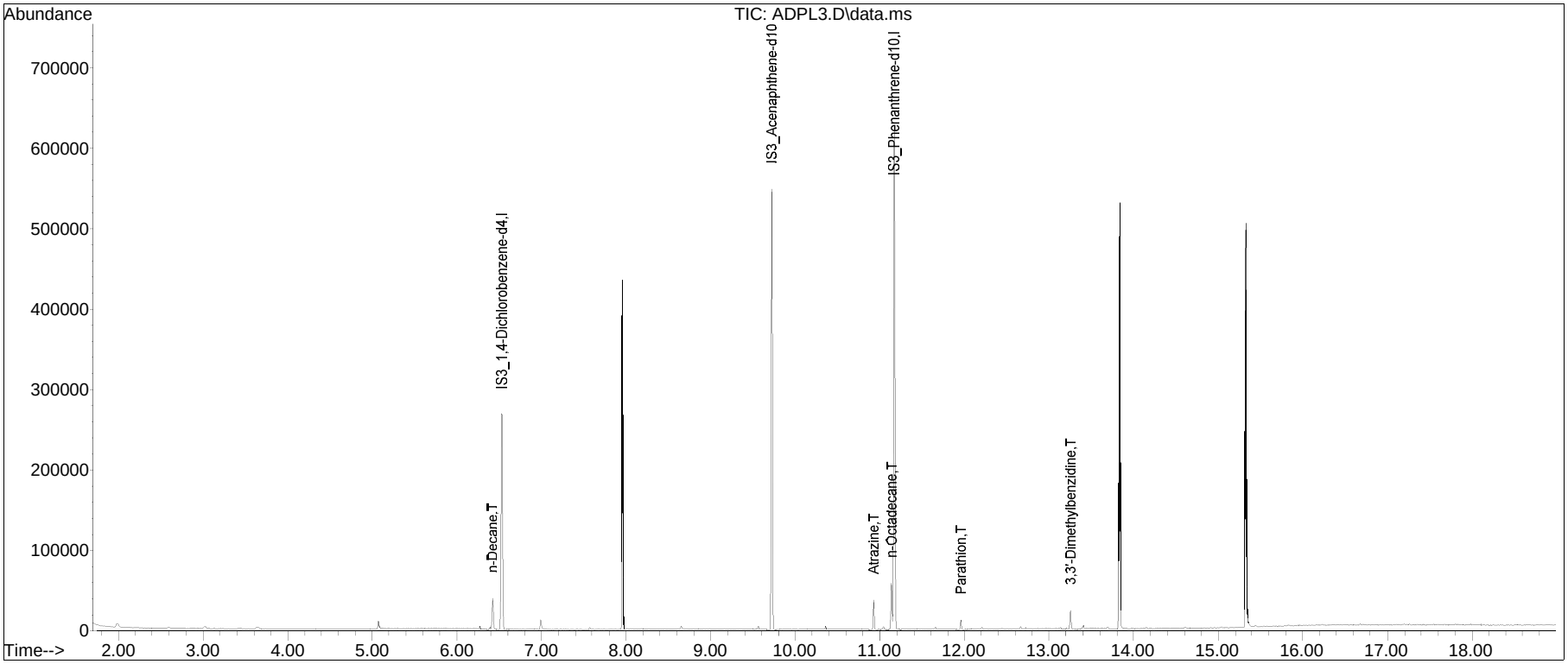
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL3.D
Acq On : 3 Jun 2024 7:00 am
Operator : SV107:jg
Sample : IL8,32,,ADPL0.5 Lot# 10715
Misc : WG1929644,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 03 16:05:40 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL3.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:00 am	Instrument	: SV107
Sample	: IL8,32,,ADPL0.5 Lot# 10715	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.534	152	51656	4.000	ug/ml	0.00
Standard Area 2 = 48587			Recovery =	106.32%		
85) IS3_Acenaphthene-d10	9.727	164	110125	4.000	ug/ml	0.00
Standard Area 2 = 108359			Recovery =	101.63%		
99) IS3_Phenanthrene-d10	11.169	188	232671	4.000	ug/ml	0.00
Standard Area 2 = 233400			Recovery =	99.69%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.422	57	3838	0.203	ug/ml#	42
86) Atrazine	10.933	200	1581	0.267	ug/ml	92
100) n-Octadecane	11.139	57	3822	0.178	ug/ml#	1
101) Parathion	11.957	109	580	0.527	ug/ml#	80
102) 3,3'-Dimethylbenzidine	13.257	212	3243	0.833	ug/ml#	95

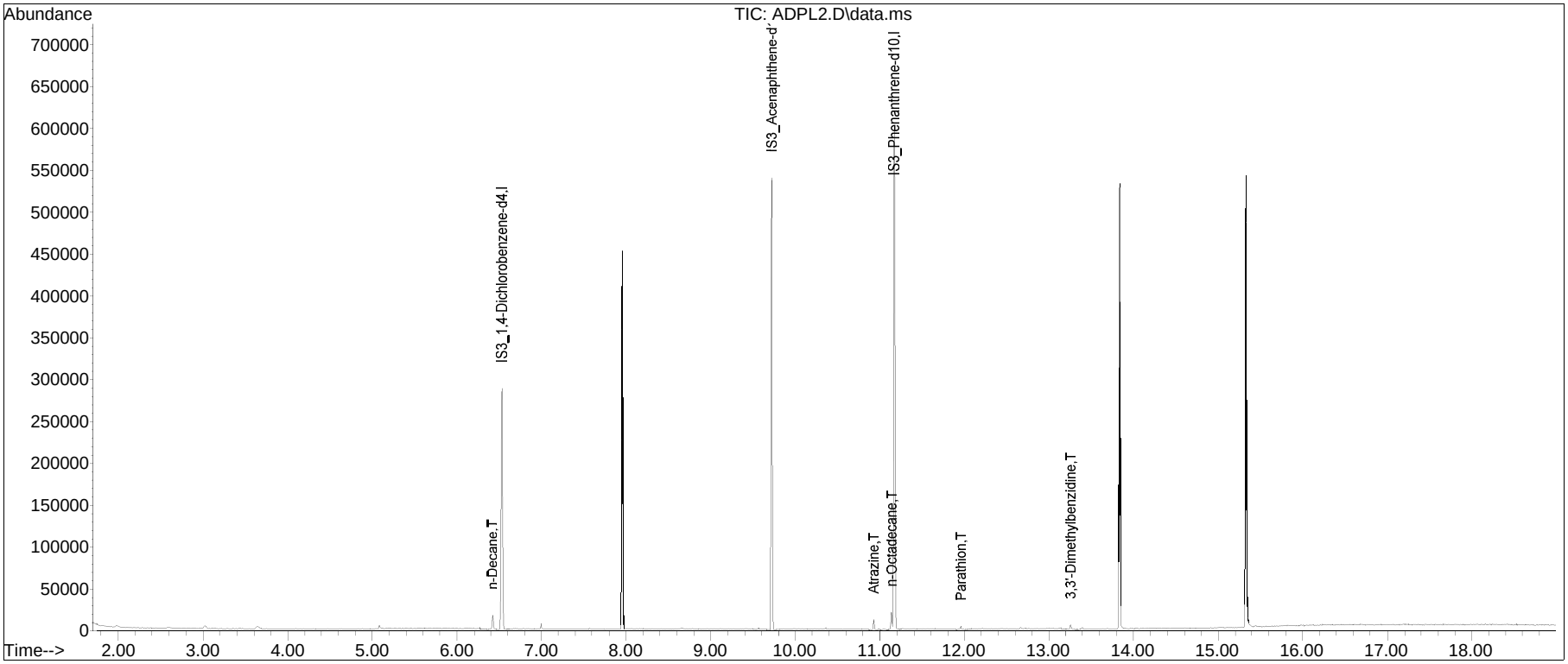
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL2.D
Acq On : 3 Jun 2024 7:25 am
Operator : SV107:jg
Sample : IL9,32,,ADPL0.2 Lot# 10716
Misc : WG1929644,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 03 16:04:28 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPL2.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 7:25 am	Instrument	: SV107
Sample	: IL9,32,,ADPL0.2 Lot# 10716	Quant Date	: 6/3/2024 10:23 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.534	152	47913	4.000	ug/ml		0.00
Standard Area 2 = 48587			Recovery = 98.61%				
85) IS3_Acenaphthene-d10	9.728	164	103451	4.000	ug/ml		0.00
Standard Area 2 = 108359			Recovery = 95.47%				
99) IS3_Phenanthrene-d10	11.169	188	219717	4.000	ug/ml	#	0.00
Standard Area 2 = 233400			Recovery = 94.14%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.422	57	1821	0.104	ug/ml	#	41
86) Atrazine	10.933	200	629	0.162	ug/ml	#	33
100) n-Octadecane	11.139	57	1799	0.089	ug/ml	#	1
101) Parathion	11.951	109	154M2	0.426	ug/ml		
102) 3,3'-Dimethylbenzidine	13.257	212	1095	0.783	ug/ml	#	62

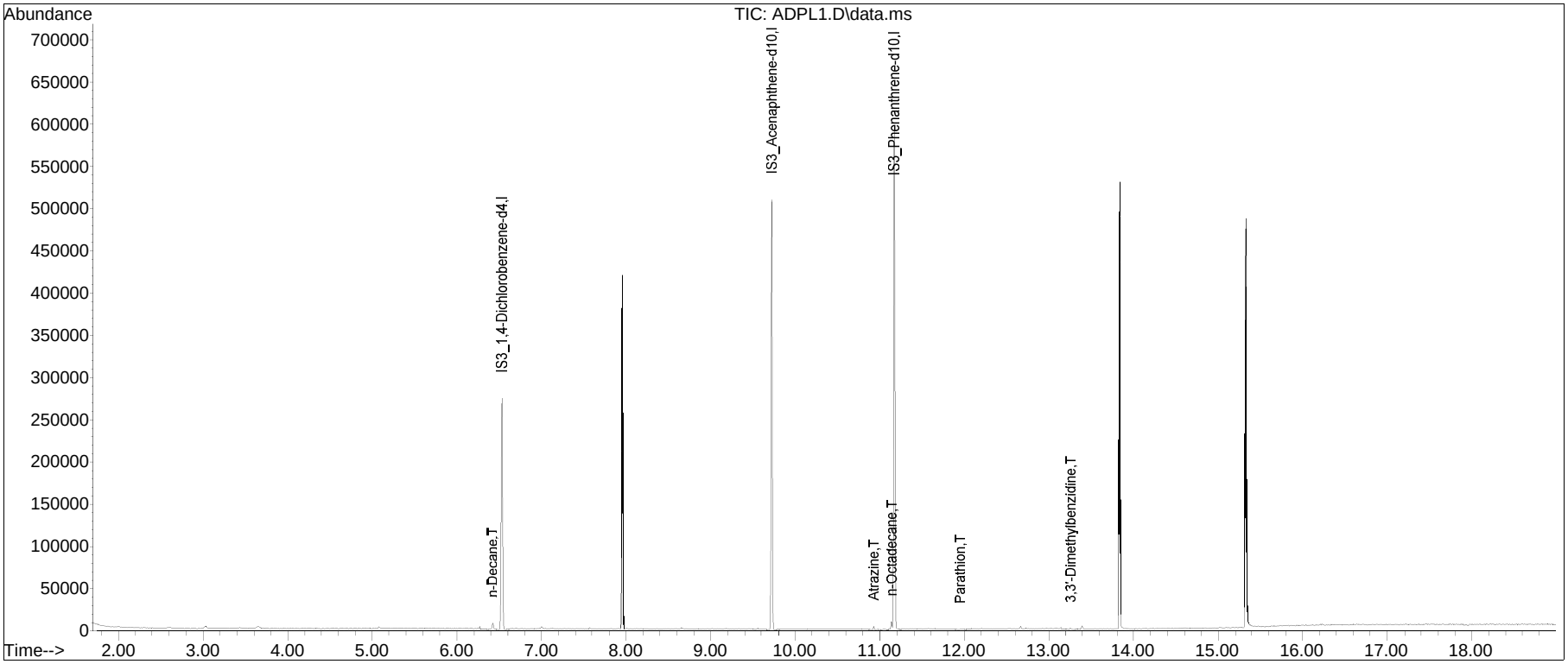
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPL1.D
Acq On : 3 Jun 2024 7:50 am
Operator : SV107:jg
Sample : IL10,32,,ADPL0.1 Lot# 10717
Misc : WG1929644,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 03 16:04:10 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 10:21:03 2024
Response via : Initial Calibration

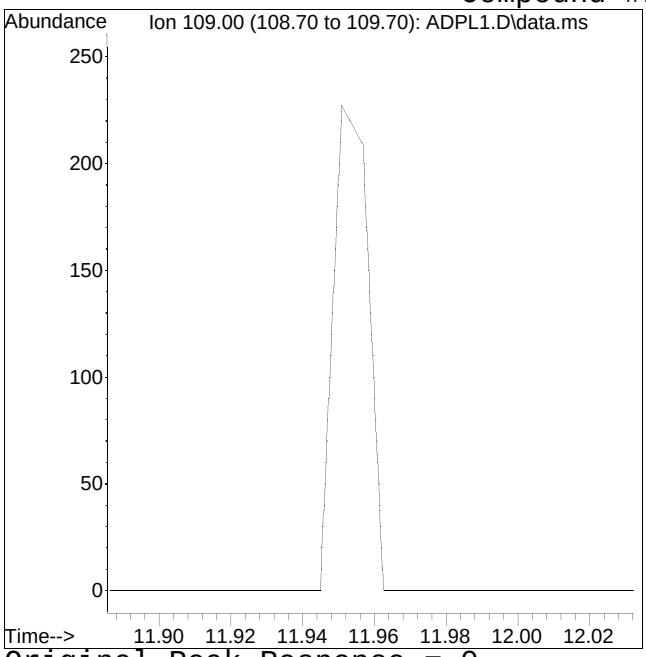
Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•



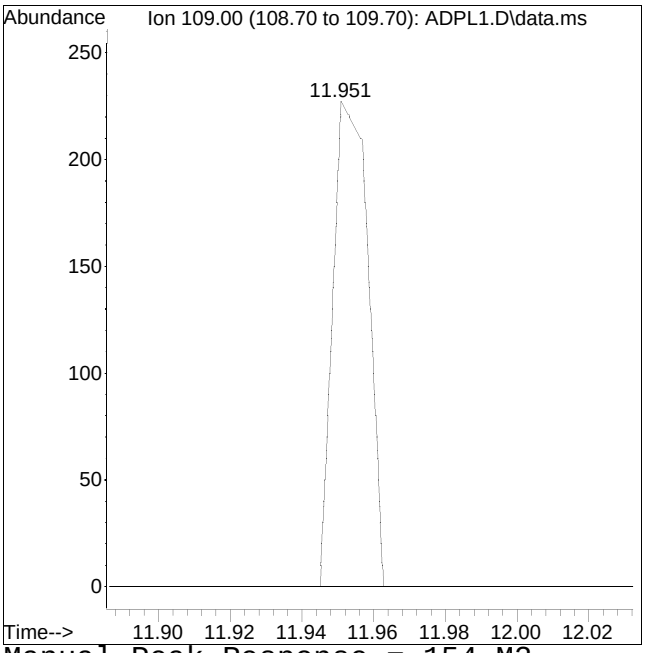
Manual Integration Report

Data Path : I:\8270\SV107\240602ical\ QMethod : FS240602SV107RVT.m
Data File : ADPL1.D Operator : SV107:jg
Date Inj'd : 6/3/2024 7:50 am Instrument : SV107
Sample : IL10,32,,ADPL0.1 Lot# 1071 Quant Date : 6/3/2024 10:22 am

Compound #101: Parathion



Original Peak Response = 0



Manual Peak Response = 154 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	0.00
33	T	n-Decane		1.447	1.410	2.6	109	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	104	0.00
86	T	Atrazine		0.347	0.330	4.9	97	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
100	T	n-Octadecane		0.393	0.408	-3.8	108	0.00
101	T	Parathion	*	5.000	3.951	21.0#	90	0.00
102	T	3,3'-Dimethylbenzidine		0.696	0.560	19.5	88	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240602ical\ABNL6.D
: 2 - I:\8270\SV107\240602ical\ADPL6.D
: 3 - I:\8270\SV107\240602ical\AP9L6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.534	152	50098	4.000	ug/ml		0.00
Standard Area 2 = 48587			Recovery =	103.11%			
85) IS3_Acenaphthene-d10	9.727	164	112929	4.000	ug/ml		0.00
Standard Area 2 = 108359			Recovery =	104.22%			
99) IS3_Phenanthrene-d10	11.174	188	244668	4.000	ug/ml	#	0.00
Standard Area 2 = 233400			Recovery =	104.83%			
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.422	57	88278	4.871	ug/ml	#	44
86) Atrazine	10.933	200	46602	4.755	ug/ml		95
100) n-Octadecane	11.139	57	124696	5.190	ug/ml	#	1
101) Parathion	11.957	109	16251	3.951	ug/ml		97
102) 3,3'-Dimethylbenzidine	13.262	212	171129	4.020	ug/ml		98

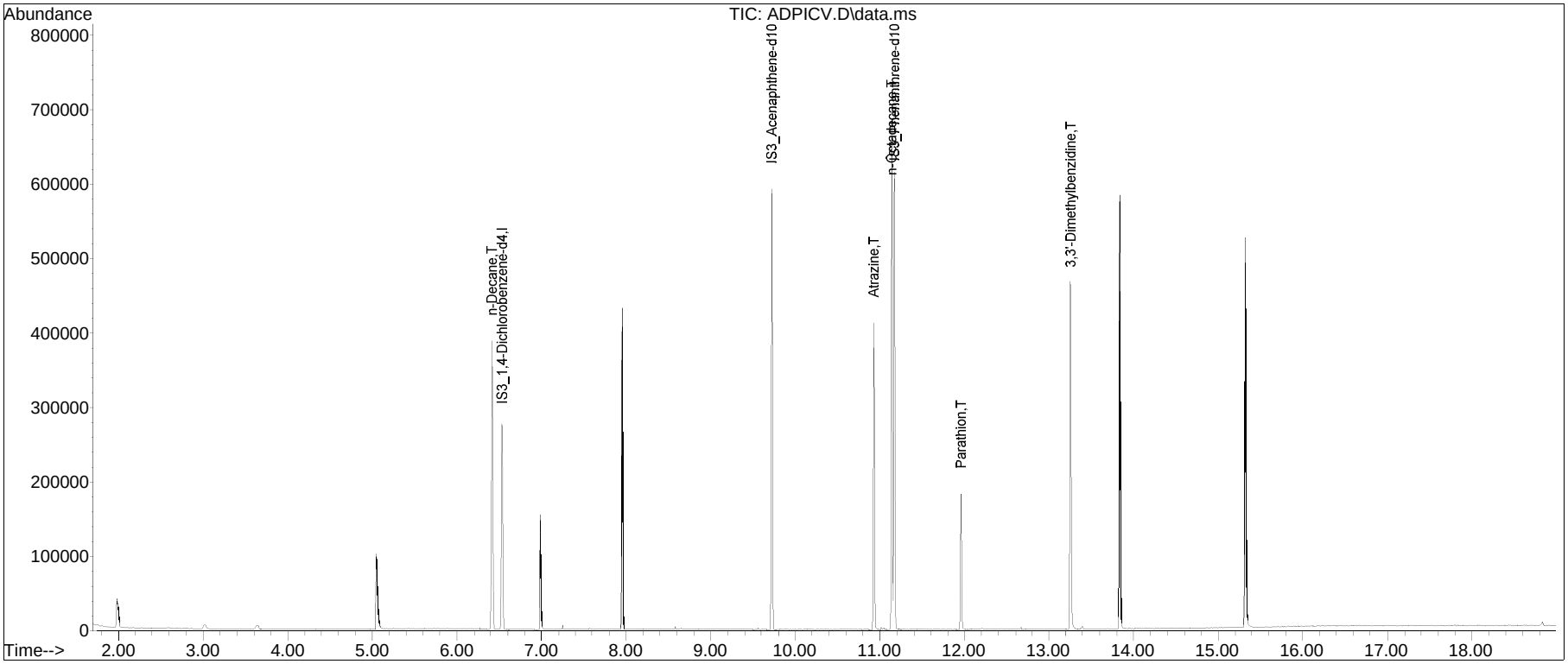
(#) = qualifier out of range (m) = manual integration (+) = signals summed

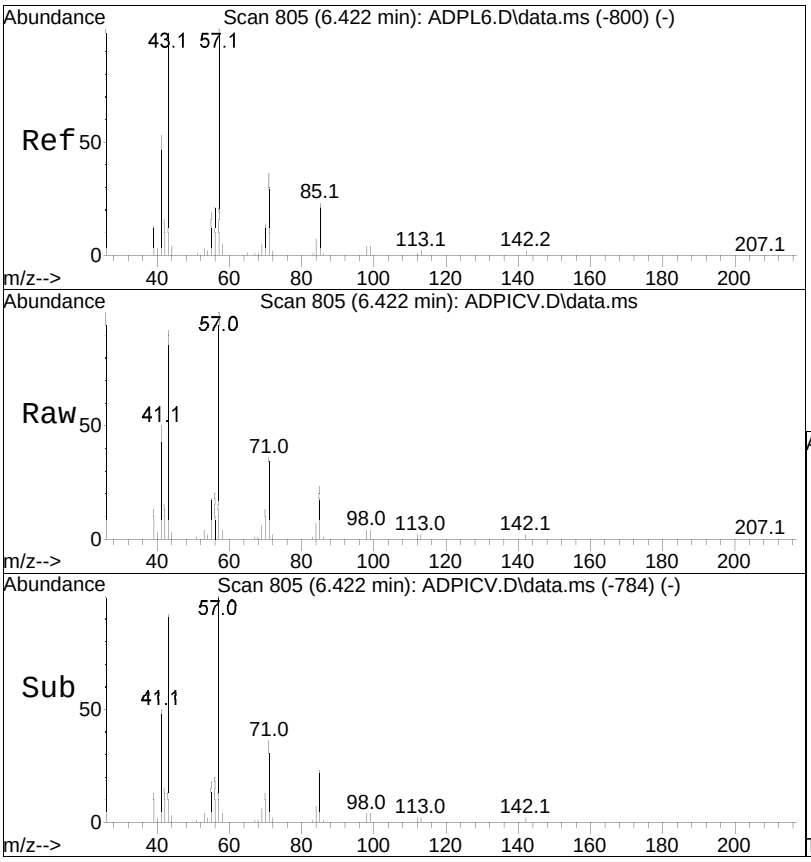
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240602ical\
Data File : ADPICV.D
Acq On : 3 Jun 2024 8:15 am
Operator : SV107:jg
Sample : CQICV3,32,,ADPICV Lot# 10690
Misc : WG1929644,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 03 16:27:51 2024
Quant Method : I:\8270\SV107\240602ical\FS240602SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jun 03 16:25:28 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\AP9L6.D•

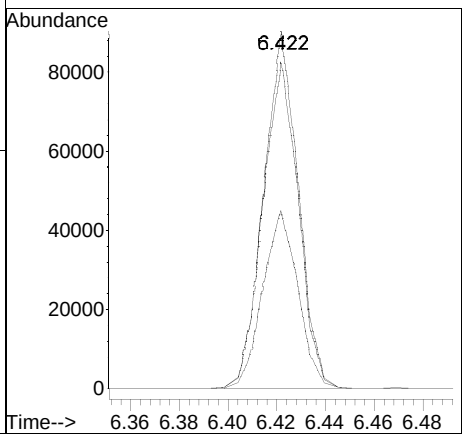


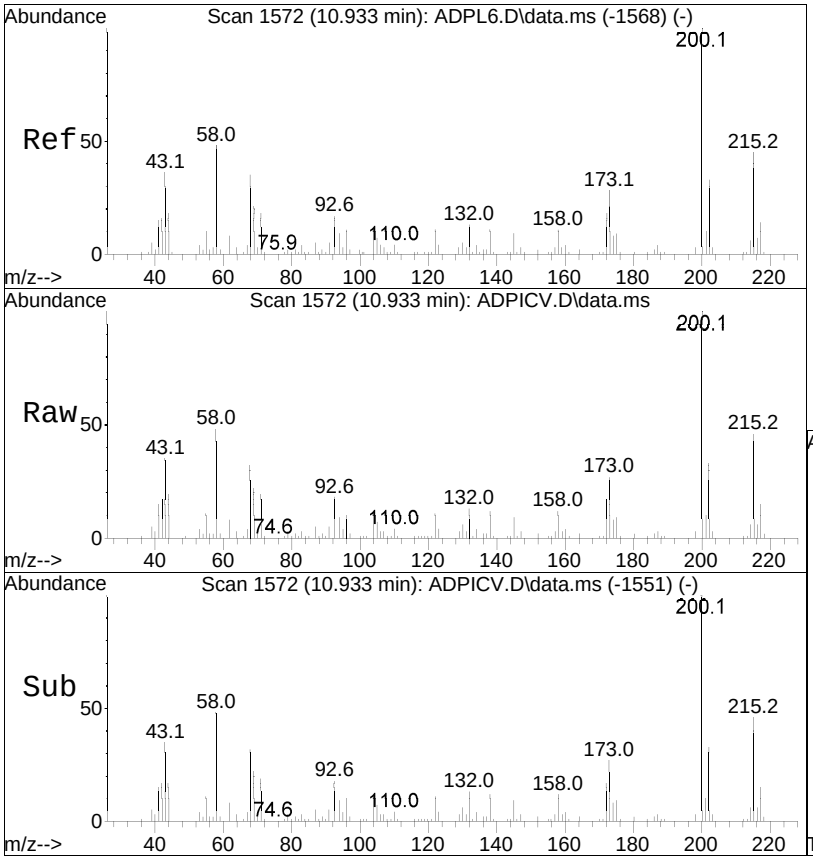


#33
n-Decane
Concen: 4.87 ug/ml
RT: 6.422 min Scan# 805
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 88278

Ion	Ratio	Lower	Upper
57	100		
43	93.8	0.2	0.2#
41	50.7	0.2	0.2#

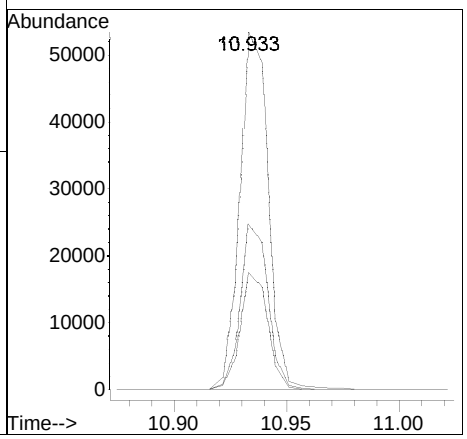


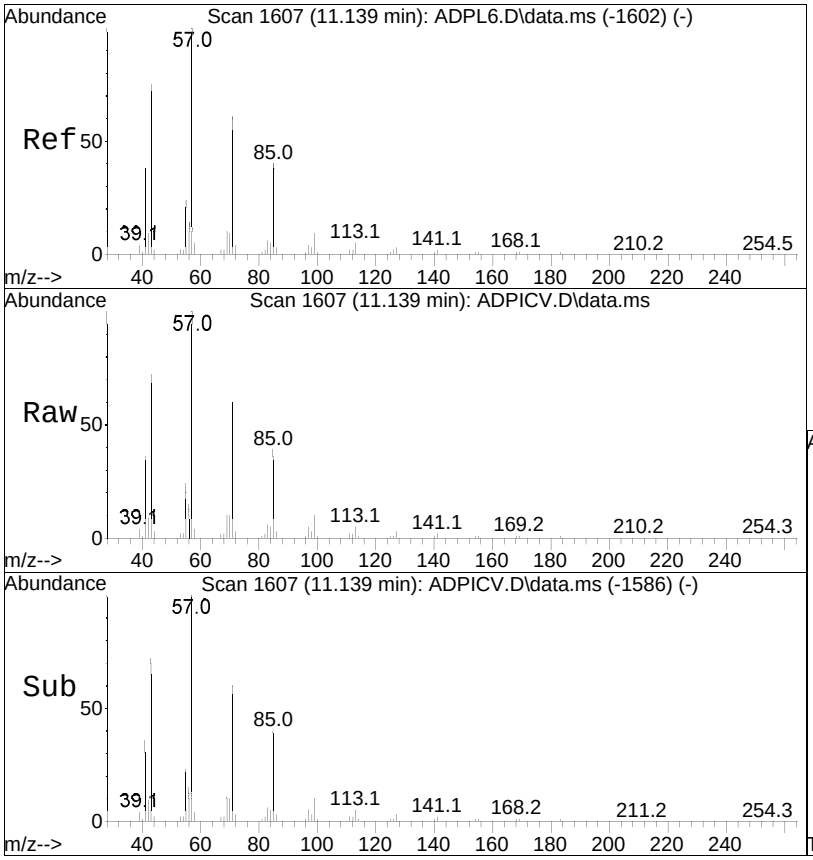


#86
Atrazine
Concen: 4.76 ug/ml
RT: 10.933 min Scan# 1572
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:200 Resp: 46602

Ion	Ratio	Lower	Upper
200	100		
202	31.9	25.8	38.6
215	45.0	40.2	60.4

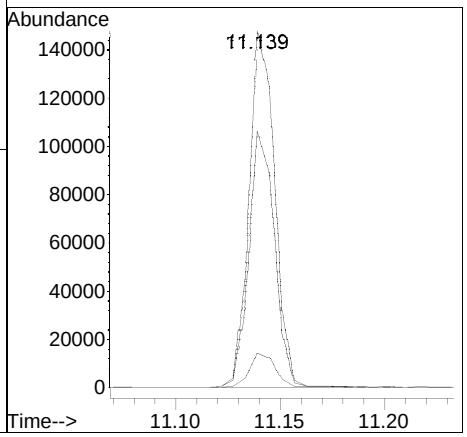


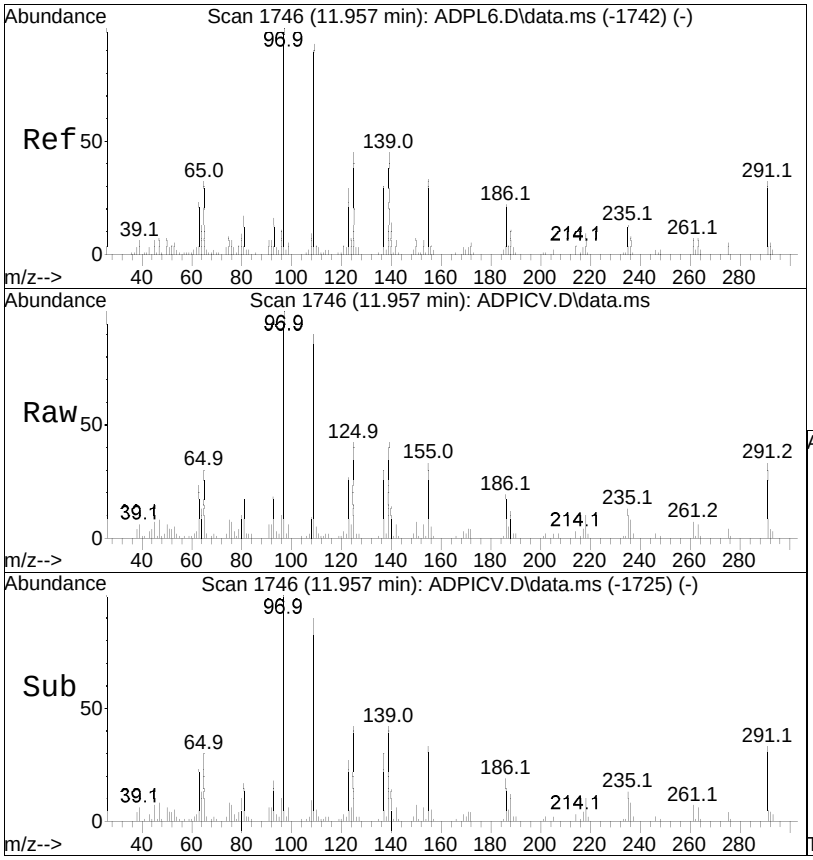


#100
n-Octadecane
Concen: 5.19 ug/ml
RT: 11.139 min Scan# 1607
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion: 57 Resp: 124696

Ion	Ratio	Lower	Upper
57	100		
43	72.2	9.0	13.6#
70	9.9	0.2	0.2#

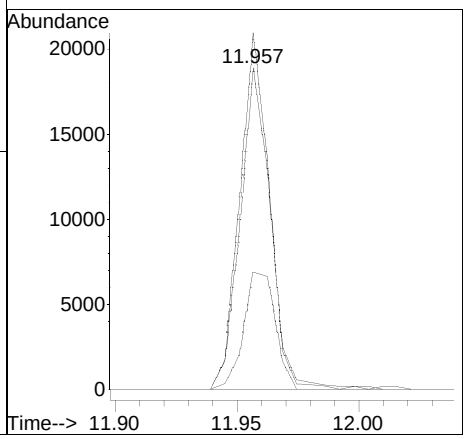


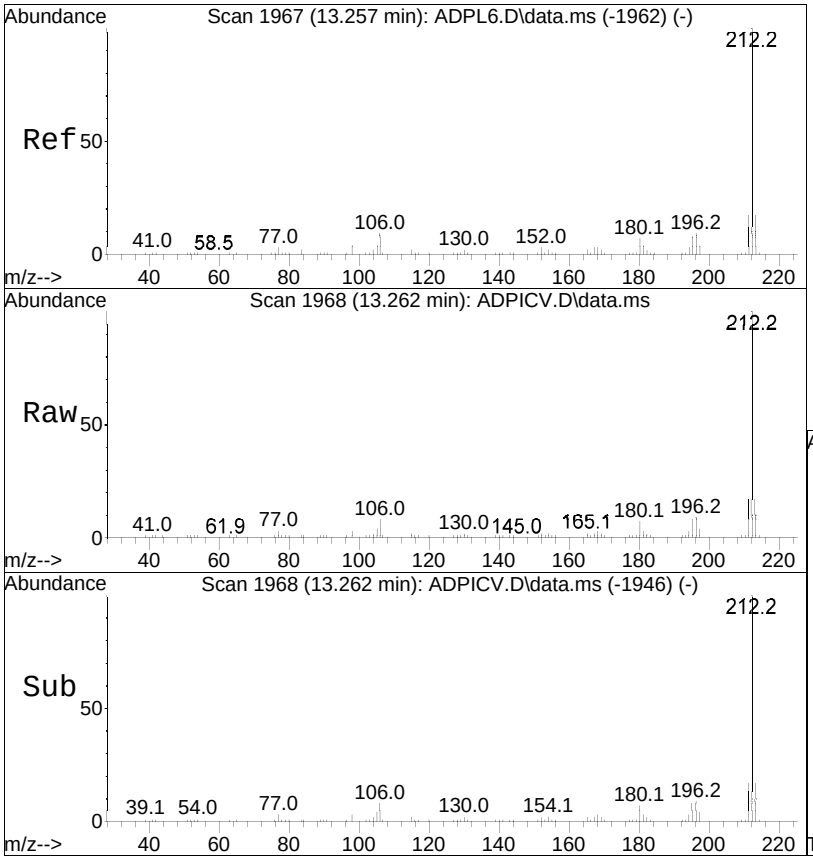


#101
Parathion
Concen: 3.95 ug/ml
RT: 11.957 min Scan# 1746
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:109 Resp: 16251

Ion	Ratio	Lower	Upper
109	100		
97	107.2	87.4	131.2
291	38.3	34.2	51.2

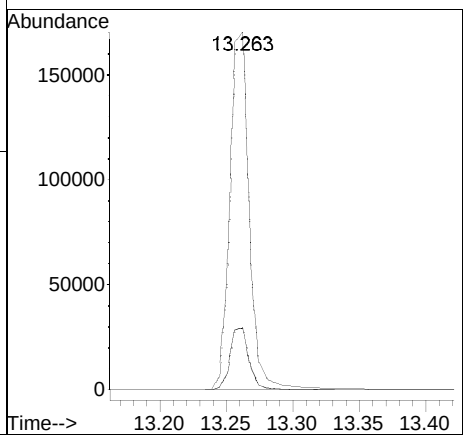




#102
3,3'-Dimethylbenzidine
Concen: 4.02 ug/ml
RT: 13.262 min Scan# 1968
Delta R.T. 0.005 min
Lab File: ADPICV.D
Acq: 3 Jun 2024 8:15 am

Tgt Ion:212 Resp: 171129

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	17.2	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV107\240602ical\	QMethod	: FS240602SV107RVT.m
Data File	: ADPICV.D	Operator	: SV107:jg
Date Inj'd	: 6/3/2024 8:15 am	Instrument	: SV107
Sample	: CQICV3,32,,ADPICV Lot# 106	Quant Date	: 6/3/2024 4:28 pm

There are no manual integrations or false positives in this file.

Evaluate Relative Error Report SV107

Method Path : I:\8270\SV107\240602ical\
Method File : FS240602SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Jun 03 16:25:28 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36	T Benzoic Acid	L	ug/ml	5.0	4.765	-4.7	2.50	2.683	7.3
65	T 2,4-Dinitrophenol	L	ug/ml	5.0	4.255	-14.9	1.00	1.308	30.8
67	T 2,4-Dinitrotoluene	L	ug/ml	5.0	4.264	-14.7	0.50	0.672	34.4
75	T 4,6-Dinitro-o-cresol	L	ug/ml	5.0	3.927	-21.5	0.50	0.735	47.0
83	T Dichloran	Q	ug/ml	5.0	4.317	-13.7	1.00	1.187	18.7
84	T Pentachloronitrobenzene	Q	ug/ml	5.0	4.537	-9.3	1.00	1.124	12.4
96	T Butyl benzyl phthalate	L	ug/ml	5.0	4.159	-16.8	0.50	0.670	34.0
101	T Parathion	Q	ug/ml	5.0	4.503	-9.9	0.50	0.593	18.6
107	T Bis(2-ethylhexyl)phthalate	L	ug/ml	5.0	4.326	-13.5	0.20	0.285	42.5
108	T Di-n-octylphthalate	L	ug/ml	5.0	4.163	-16.7	0.50	0.659	31.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36	T Benzoic Acid	Linear	0.999239	0.000000	0.246525	-0.0877201
65	T 2,4-Dinitrophenol	Linear	0.992182	0.000000	0.171609	-0.0408051
67	T 2,4-Dinitrotoluene	Linear	0.994784	0.000000	0.417373	-0.0391465
75	T 4,6-Dinitro-o-cresol	Linear	0.991136	0.000000	0.230601	-0.0318046
83	T Dichloran	Quadratic	0.997786	0.004249	0.148025	-0.0234694
84	T Pentachloronitrobenzene	Quadratic	0.998992	0.002852	0.160738	-0.0192012
96	T Butyl benzyl phthalate	Linear	0.996221	0.000000	0.560774	-0.0556932
101	T Parathion	Quadratic	0.998691	0.004558	0.067987	-0.00517977
107	T Bis(2-ethylhexyl)phthalate	Linear	0.993524	0.000000	0.893249	-0.0402223
108	T Di-n-octylphthalate	Linear	0.991815	0.000000	1.53318	-0.162213

Response Factor Report SV 106

Method Path : I:\8270\SV106\240624RVTical\
Method File : FS240624SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 25 06:28:35 2024
Response Via : Initial Calibration

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------										
2)	t	N-Nitrosodimethylamine	0.938	0.956	0.854	0.853	0.774	0.776	0.841	0.822	0.847	0.851	7.32
3)	t	Pyridine	1.526	1.555	1.355	1.366	1.292	1.282	1.394	1.350	1.411	1.392	6.76
4)	S	2-Fluorophenol	1.089	1.386	1.143	1.143	1.065	1.079	1.163	1.151	1.186	1.156	8.25
5)	T	Aniline	2.443	2.265	1.992	1.939	1.902	1.866	1.994	1.977	2.059	2.049	9.15
6)	t	2-Chlorophenol	1.386	1.452	1.391	1.240	1.207	1.148	1.258	1.242	1.266	1.288	7.73
7)	S	Phenol-d6	1.942	1.694	1.620	1.534	1.453	1.415	1.522	1.518	1.547	1.583	9.98
8)	T	Phenol	1.941	1.738	1.608	1.689	1.523	1.491	1.603	1.574	1.610	1.642	8.23
9)	T	bis(2-Chloroethyl)ether	1.531	1.511	1.439	1.305	1.256	1.224	1.308	1.272	1.289	1.348	8.51
10)	T	1,3-Dichlorobenzene	1.770	1.860	1.537	1.485	1.464	1.395	1.479	1.444	1.484	1.546	10.25
11)	T	1,4-Dichlorobenzene	1.885	1.638	1.678	1.555	1.449	1.398	1.506	1.482	1.494	1.565	9.52
12)	T	1,2-Dichlorobenzene	1.871	1.694	1.613	1.485	1.397	1.362	1.429	1.421	1.428	1.522	11.13
13)	t	Benzyl alcohol	1.371	1.433	1.236	1.188	1.183	1.159	1.257	1.271	1.309	1.267	7.18
14)	T	bis(2-chloroisopropyl)ether	2.653	2.552	2.257	2.073	2.015	1.932	2.079	1.986	1.948	2.166	12.30
15)	T	2-Methylphenol	1.300	1.270	1.235	1.174	1.110	1.086	1.178	1.131	1.160	1.183	6.14
16)	T	Hexachloroethane	0.743	0.741	0.665	0.601	0.559	0.541	0.597	0.572	0.585	0.623	12.20
17)	T	n-Nitrosodi-n-propylamine	1.092	1.105	1.007	1.074	1.024	0.994	1.084	1.053	1.080	1.057	3.76
18)	T	3-Methylphenol/4-Methylphenol	1.363	1.465	1.312	1.247	1.165	1.157	1.277	1.243	1.280	1.279	7.46
19)	S	Nitrobenzene-d5	1.858	1.740	1.746	1.543	1.455	1.453	1.603	1.562	1.608	1.619	8.50
20)	T	Nitrobenzene	2.001	1.775	1.612	1.641	1.491	1.459	1.644	1.560	1.605	1.643	9.91
21)	T	Isophorone	3.029	2.785	2.705	2.724	2.638	2.597	2.820	2.731	2.813	2.760	4.54
22)	T	2-Nitrophenol	0.681	0.806	0.655	0.635	0.660	0.645	0.712	0.705	0.728	0.692	7.72
23)	T	2,4-Dimethylphenol	1.634	1.347	1.227	1.258	1.205	1.186	1.292	1.260	1.305	1.301	10.34
24)	T	bis(2-Chloroethoxy)methane	2.153	2.035	1.866	1.675	1.631	1.604	1.731	1.640	1.664	1.778	11.08
25)	T	2,4-Dichlorophenol	1.380	1.311	1.180	1.195	1.162	1.144	1.245	1.226	1.254	1.233	6.11
26)	T	1,2,4-Trichlorobenzene	1.956	1.639	1.621	1.445	1.368	1.313	1.454	1.378	1.416	1.510	13.26
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------										
28)	T	Benzaldehyde	1.111	1.153	1.214	1.183	1.184	1.173	1.252	1.213	1.203	1.187	3.40
29)	T	Acetophenone	2.005	2.209	2.136	2.188	2.132	2.136	2.286	2.165	2.167	2.158	3.47
30)	T	m-Toluidine	1.720	2.008	1.857	1.996	1.941	1.939	2.087	2.049	2.015	1.957	5.70
31)	T	2-Chloroaniline	1.443	1.808	1.812	1.652	1.707	1.684	1.822	1.726	1.729	1.709	6.81
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------										
33)	t	1,4-Dioxane	0.788	0.714	0.628	0.587	0.537	0.492	0.510	0.488	0.517	0.584	18.21
34)	T	n-Decane	1.716	1.735	1.686	1.811	1.628	1.542	1.639	1.564	1.638	1.662	5.08
35)	I	IS1_Naphthalene-d8	----------ISTD----------										
36)	T	Naphthalene	1.303	1.431	1.242	1.087	1.054	1.010	1.077	1.039	1.079	1.147	12.58
37)	T	Benzoic Acid			0.131	0.164	0.227	0.258	0.303	0.315	0.334	*Q	0.9992
38)	T	4-Chloroaniline	0.173	0.208	0.167	0.154	0.164	0.158	0.169	0.162	0.167	0.169	9.29
39)	T	Hexachlorobutadiene	0.385	0.392	0.325	0.271	0.271	0.262	0.278	0.267	0.273	0.303	17.22
40)	T	p-Chloro-m-cresol	0.374	0.367	0.322	0.323	0.324	0.322	0.351	0.345	0.357	0.343	6.06
41)	T	2-Methylnaphthalene	0.892	0.877	0.774	0.747	0.728	0.691	0.731	0.704	0.734	0.764	9.47
42)	T	1-Methylnaphthalene	0.299	0.327	0.311	0.289	0.272	0.266	0.285	0.276	0.287	0.290	6.72
43)	T	Hexachlorocyclopentadiene	0.378	0.376	0.313	0.337	0.315	0.311	0.335	0.323	0.334	0.336	7.62
44)	T	2,4,6-Trichlorophenol	0.308	0.327	0.297	0.279	0.295	0.283	0.310	0.293	0.312	0.301	5.04
45)	T	2,4,5-Trichlorophenol	0.348	0.309	0.337	0.309	0.317	0.311	0.329	0.314	0.323	0.322	4.32

Response Factor Report SV 106

Method Path : I:\8270\SV106\240624RVTical\
Method File : FS240624SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 25 06:28:35 2024
Response Via : Initial Calibration

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
46)	S	2-Fluorobiphenyl	1.238	1.188	1.067	0.970	0.976	0.920	0.987	0.926	0.972	1.027	11.12
47)	T	2-Chloronaphthalene	0.931	0.978	0.829	0.784	0.761	0.738	0.778	0.744	0.771	0.813	10.49
48)	T	2-Nitroaniline	0.268	0.254	0.237	0.225	0.230	0.233	0.256	0.246	0.254	0.245	5.94
49)	T	1,4-Dinitrobenzene	0.102	0.146	0.128	0.126	0.121	0.122	0.139	0.136	0.140	0.129	10.28
50)	T	1,3-Dinitrobenzene	0.169	0.131	0.141	0.145	0.139	0.143	0.157	0.148	0.148	0.147	7.48
51)	T	Dimethyl phthalate	1.130	1.111	1.037	0.925	0.941	0.923	0.970	0.913	0.952	0.989	8.42
52)	T	Acenaphthylene	1.297	1.377	1.312	1.193	1.179	1.169	1.255	1.182	1.232	1.244	5.79
53)	T	2,6-Dinitrotoluene	0.236	0.213	0.202	0.202	0.210	0.206	0.221	0.209	0.216	0.213	5.02
54)	T	1,2-Dinitrobenzene	0.096	0.089	0.094	0.088	0.086	0.089	0.095	0.090	0.092	0.091	3.82
55)	I	IS2_Naphthalene-d8	----------ISTD----------										
56)	T	a-Terpineol	0.395	0.407	0.383	0.389	0.397	0.396	0.419	0.409	0.406	0.400	2.77
57)	T	3-Chloroaniline	0.202	0.187	0.203	0.200	0.200	0.199	0.208	0.203	0.203	0.201	2.82
58)	T	2,6-Dichlorophenol	0.300	0.375	0.339	0.357	0.362	0.374	0.392	0.378	0.378	0.362	7.68
59)	T	1-chloro-2-nitrobenzene	0.152	0.179	0.191	0.180	0.180	0.185	0.189	0.183	0.184	0.180	6.36
60)	T	Caprolactam	0.150	0.175	0.213	0.215	0.213	0.225	0.244	0.230	0.227	0.210	14.05
61)	T	1,2,4,5-Tetrachlorobenzene	0.596	0.583	0.579	0.544	0.531	0.530	0.537	0.516	0.519	0.548	5.43
62)	T	Biphenyl	1.132	1.104	1.120	1.094	1.057	1.061	1.093	1.046	1.050	1.084	2.94
63)	I	IS1_Acenaphthene-d10	----------ISTD----------										
64)	T	3-Nitroaniline	0.248	0.338	0.326	0.319	0.317	0.318	0.331	0.337	0.341	0.319	8.83
65)	T	Acenaphthene	1.363	1.314	1.204	1.106	1.083	1.042	1.074	1.080	1.107	1.153	9.97
66)	T	2,4-Dinitrophenol			0.174	0.168	0.187	0.215	0.242	0.250	0.257	0.213	17.56
67)	T	Dibenzofuran	2.377	2.261	1.986	1.905	1.815	1.738	1.800	1.748	1.794	1.936	12.00
68)	T	2,4-Dinitrotoluene	0.506	0.560	0.460	0.452	0.441	0.460	0.460	0.463	0.471	0.475	7.73
69)	T	4-Nitrophenol	0.282	0.331	0.331	0.326	0.316	0.305	0.329	0.346	0.345	0.323	6.20
70)	T	2,3,5,6-Tetrachlorophenol	0.441	0.426	0.460	0.443	0.456	0.437	0.464	0.465	0.478	0.452	3.65
71)	T	2,3,4,6-Tetrachlorophenol	0.385	0.451	0.449	0.425	0.445	0.431	0.437	0.442	0.448	0.435	4.74
72)	T	Diethyl phthalate	1.707	1.826	1.602	1.465	1.488	1.399	1.423	1.414	1.441	1.529	9.81
73)	T	Fluorene	1.829	1.686	1.572	1.487	1.429	1.398	1.444	1.412	1.445	1.523	9.66
74)	T	4-Chlorophenyl-phenylether	0.920	0.966	0.887	0.754	0.766	0.703	0.750	0.723	0.745	0.801	11.96
75)	T	4-Nitroaniline	0.301	0.357	0.373	0.348	0.342	0.309	0.321	0.322	0.318	0.333	7.13
76)	T	4,6-Dinitro-o-cresol	0.180	0.212	0.253	0.269	0.274	0.278	0.297	0.314	0.317	0.266	17.15
77)	T	NDPA/DPA	1.353	1.467	1.261	1.271	1.207	1.192	1.215	1.189	1.208	1.263	7.35
78)	T	Azobenzene	1.586	1.589	1.442	1.406	1.365	1.340	1.427	1.407	1.451	1.446	6.06
79)	S	2,4,6-Tribromophenol	0.233	0.268	0.232	0.253	0.245	0.244	0.253	0.252	0.264	0.249	4.96
80)	T	4-Bromophenyl-phenylether	0.570	0.626	0.473	0.489	0.472	0.452	0.479	0.464	0.474	0.500	11.64
81)	T	Hexachlorobenzene	0.612	0.703	0.623	0.558	0.532	0.505	0.528	0.526	0.532	0.569	11.29
82)	T	Pentachlorophenol	0.346	0.345	0.300	0.323	0.361	0.371	0.392	0.404	0.409	0.361	10.19
83)	I	IS2_Acenaphthene-d10	----------ISTD----------										
84)	T	Dichloran	0.212	0.234	0.218	0.220	0.232	0.262	0.276	0.284	0.287	0.247	12.11
85)	T	Pentachloronitrobenzene	0.234	0.253	0.232	0.279	0.261	0.290	0.299	0.290	0.294	0.270	9.62
86)	I	IS3_Acenaphthene-d10	----------ISTD----------										
87)	T	Atrazine	0.569	0.477	0.491	0.517	0.491	0.463	0.513	0.526	0.531	0.509	6.32
88)	I	IS1_Phenanthrene-d10	----------ISTD----------										
89)	T	Phenanthrene	1.330	1.366	1.146	1.122	0.987	0.987	1.054	1.012	1.050	1.117	12.71
90)	T	Anthracene	1.346	1.213	1.150	1.084	0.998	1.020	1.080	1.029	1.074	1.111	9.97

Response Factor Report SV 106

Method Path : I:\8270\SV106\240624RVTical\
Method File : FS240624SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 25 06:28:35 2024
Response Via : Initial Calibration

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

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
91)	T	Carbazole	1.222	1.101	1.027	1.019	0.920	0.926	0.999	0.969	0.976	1.018	9.28
92)	T	Di-n-butylphthalate	1.297	1.305	1.177	1.136	1.122	1.124	1.225	1.169	1.201	1.195	5.79
93)	T	Fluoranthene	1.673	1.551	1.365	1.334	1.226	1.231	1.329	1.288	1.296	1.366	10.96
94)	T	Benzidine	0.623	0.736	0.752	0.737	0.709	0.734	0.804	0.785	0.794	0.741	7.34
95)	T	Pyrene	1.722	1.662	1.471	1.406	1.298	1.301	1.394	1.337	1.368	1.440	10.65
96)	S	4-Terphenyl-d14	1.271	1.253	1.090	1.079	0.978	0.959	1.041	1.000	1.009	1.076	10.62
97)	T	Butyl benzyl phthalate	0.640	0.593	0.508	0.530	0.503	0.501	0.562	0.553	0.561	0.550	8.39
98)	I	IS2_Phenanthrene-d10	----------ISTD----------										
99)	T	Diphenamid	0.449	0.557	0.590	0.563	0.545	0.570	0.595	0.598	0.585	0.561	8.15
100)	I	IS3_Phenanthrene-d10	----------ISTD----------										
101)	T	n-Octadecane	0.566	0.464	0.504	0.501	0.489	0.462	0.516	0.501	0.475	0.498	6.39
102)	T	Parathion	0.111	0.129	0.128	0.108	0.110	0.113	0.132	0.142	0.145	0.124	11.46
103)	T	3,3'-Dimethylbenzidine	0.534	0.640	0.710	0.782	0.830	0.801	0.917	0.934	0.966	0.791	18.10
104)	I	IS1_Chrysene-d12	----------ISTD----------										
105)	T	Benzo[a]anthracene	1.886	1.694	1.517	1.409	1.348	1.308	1.417	1.345	1.379	1.478	13.03
106)	T	3,3'-Dichlorobenzidine	0.472	0.521	0.444	0.457	0.464	0.489	0.527	0.507	0.521	0.489	6.37
107)	T	Chrysene	1.853	1.775	1.481	1.363	1.296	1.258	1.301	1.256	1.277	1.429	16.08
108)	T	bis(2-Ethylhexyl)phthalate	0.892	0.841	0.769	0.757	0.799	0.796	0.849	0.817	0.835	0.817	5.15
109)	T	Di-n-octylphthalate	1.452	1.362	1.285	1.241	1.299	1.297	1.432	1.390	1.413	1.352	5.49
110)	T	Benzo(b)fluoranthene	1.696	1.671	1.537	1.403	1.294	1.235	1.381	1.329	1.326	1.430	11.62
111)	T	Benzo(k)fluoranthene	1.681	1.662	1.379	1.328	1.239	1.269	1.288	1.171	1.188	1.356	14.02
112)	T	Benzo(a)pyrene	1.402	1.440	1.283	1.193	1.133	1.161	1.230	1.175	1.157	1.242	8.96
113)	I	IS1_Perylene-d12	----------ISTD----------										
114)	T	Indeno(1,2,3-cd)pyrene	1.309	1.196	1.123	1.101	1.076	1.040	1.130	0.901	0.862	1.082	12.71
115)	T	Dibenzo[a,h]anthracene	1.237	1.190	1.068	1.055	1.022	0.999	1.041	0.883	0.880	1.042	11.47
116)	T	Benzo(g,h,i)perylene	1.225	1.168	1.042	1.002	0.980	0.938	0.975	0.728	0.620	0.964	19.83

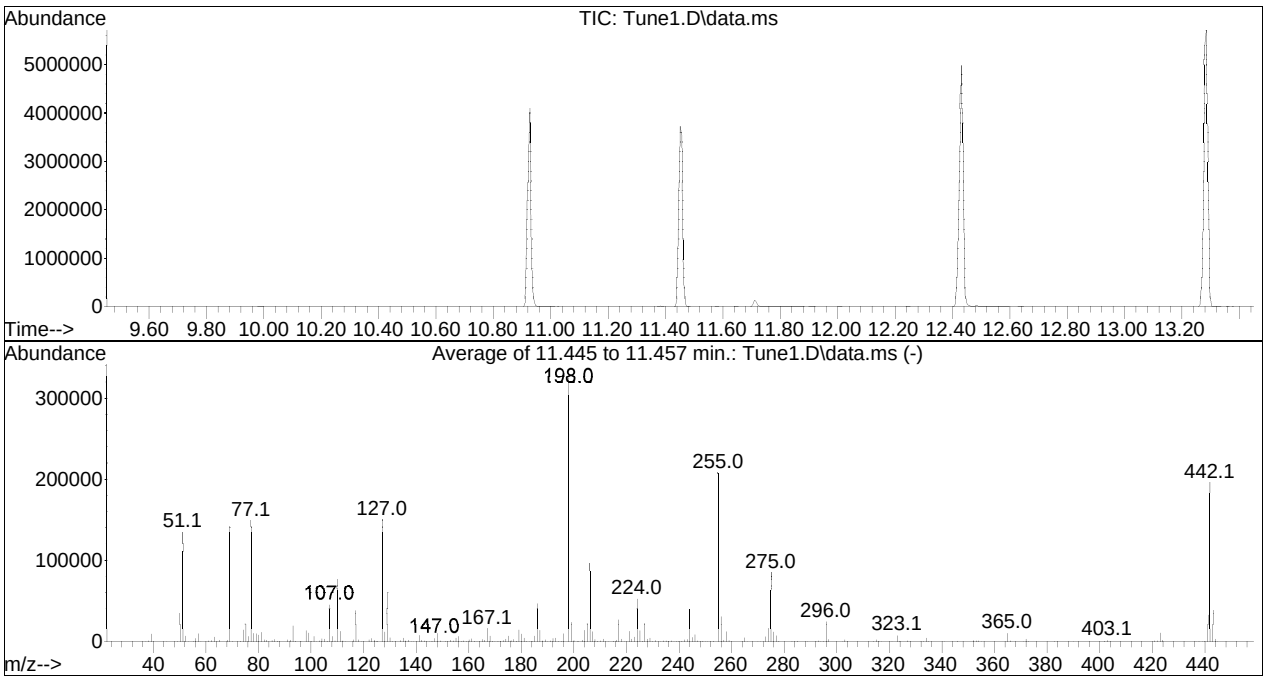
(#) = Out of Range

DFTPP

Data Path : I:\8270\SV106\240624RVTical\
Data File : Tune1.D
Acq On : 24 Jun 2024 4:32 pm
Operator : SV106:ljg
Sample : Tune1 Lot# 10853
Misc : WG1939040
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 25 06:28:35 2024



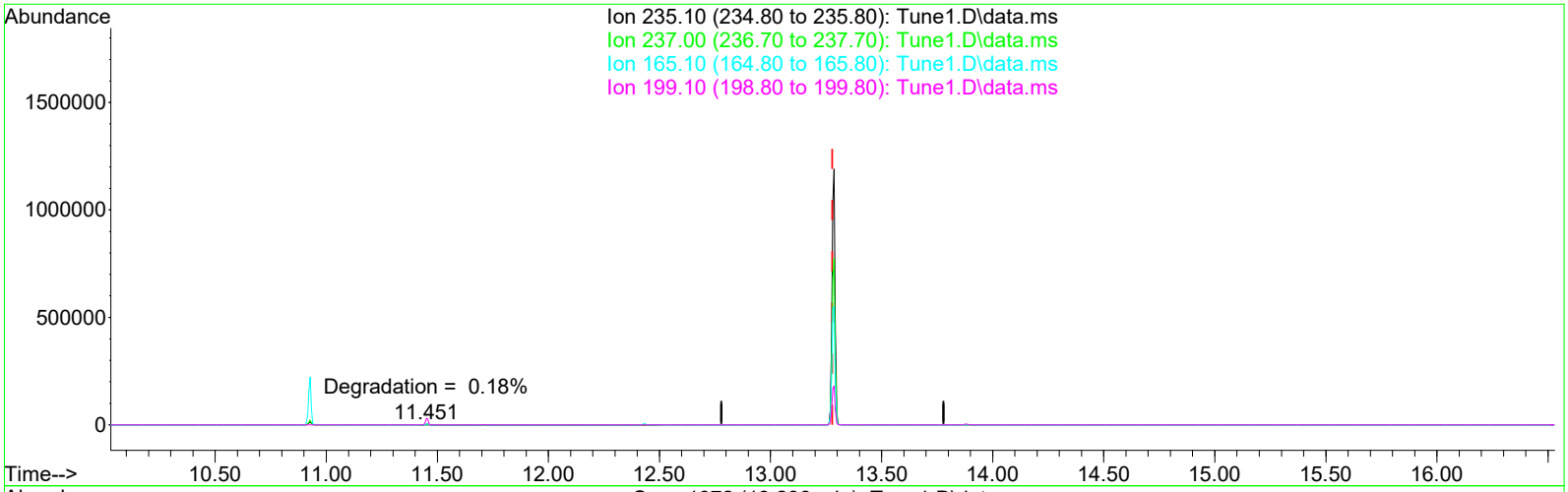
Spectrum Information: Average of 11.445 to 11.457 min.

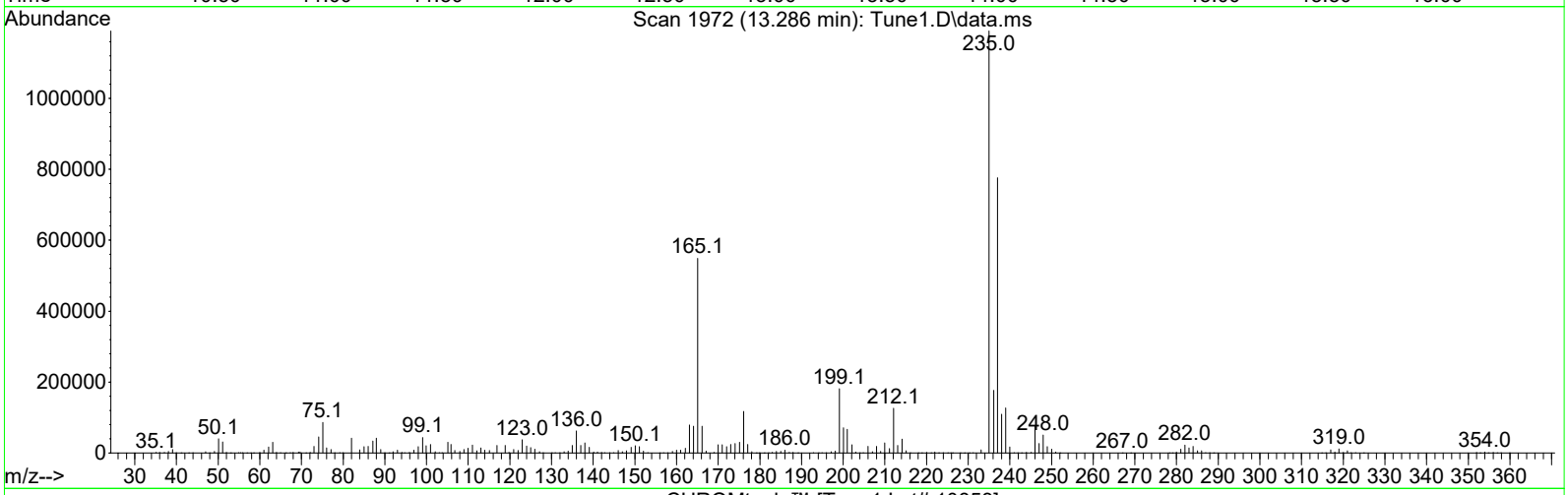
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.3	134464	PASS
68	69	0.00	2	1.7	2440	PASS
69	69	100	100	100.0	142152	PASS
70	69	0.00	2	0.5	780	PASS
127	198	10	80	46.2	150395	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	325269	PASS
199	198	5	9	7.2	23345	PASS
275	198	10	60	25.9	84395	PASS
365	198	1	100	3.1	9998	PASS
441	442	0.01	24	16.5	32150	PASS
442	198	50	100	59.9	194960	PASS
443	442	15	24	19.6	38192	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240624RVTical\
Data File : Tune1.D
Acq On : 24 Jun 2024 4:32 pm
Operator : SV106:ljg
Sample : Tune1 Lot# 10853
Misc : WG1939040
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 24 20:27:19 2024
Quant Method : I:\8270\SV106\240624RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 23:55:18 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot# 10853]

(6) DDT (T)

13.286min (+ 0.006) 186.42

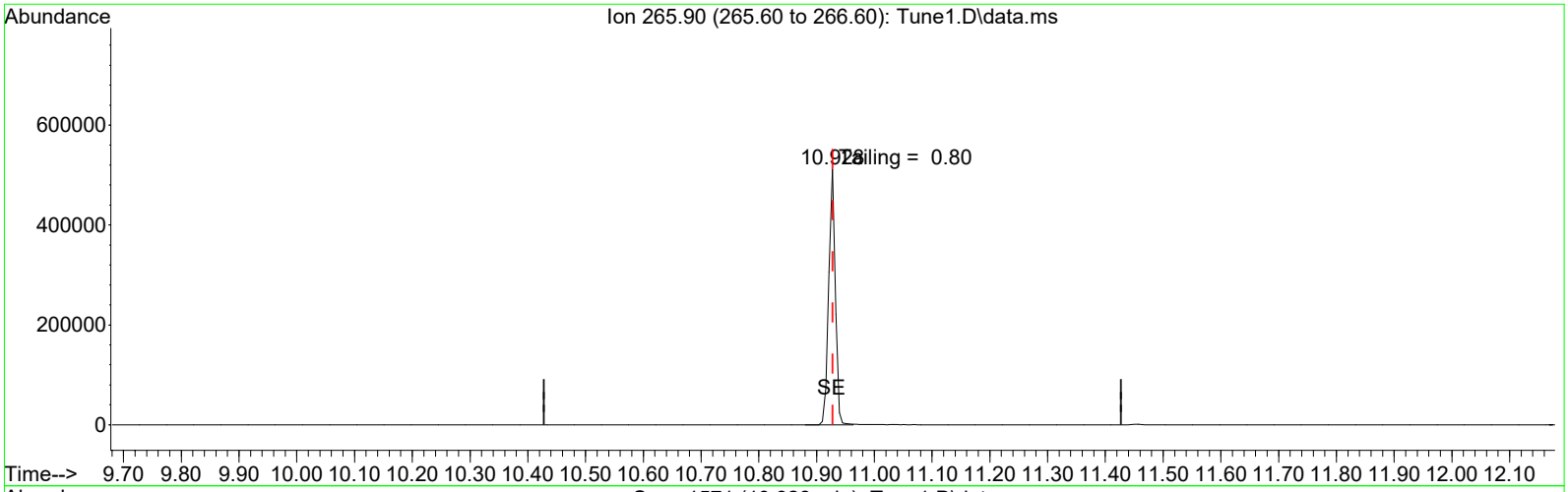
response 1136338

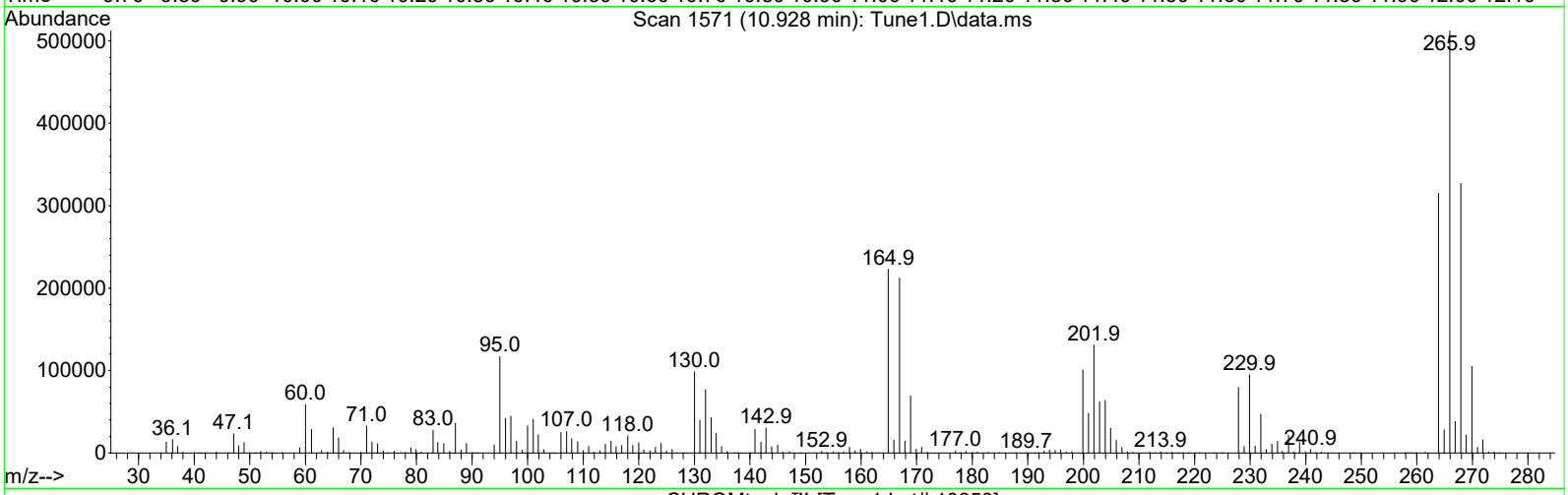
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	64.70
165.10	44.50	48.03
199.10	14.80	15.43

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240624RVTical\
Data File : Tune1.D
Acq On : 24 Jun 2024 4:32 pm
Operator : SV106:ljg
Sample : Tune1 Lot# 10853
Misc : WG1939040
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 24 20:27:19 2024
Quant Method : I:\8270\SV106\240624RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 23:55:18 2024
Response via : Initial Calibration





CHROMtools™ [Tune1 Lot# 10853]

(1) Pentachlorophenol (T)

10.928min (-0.001) 194.55

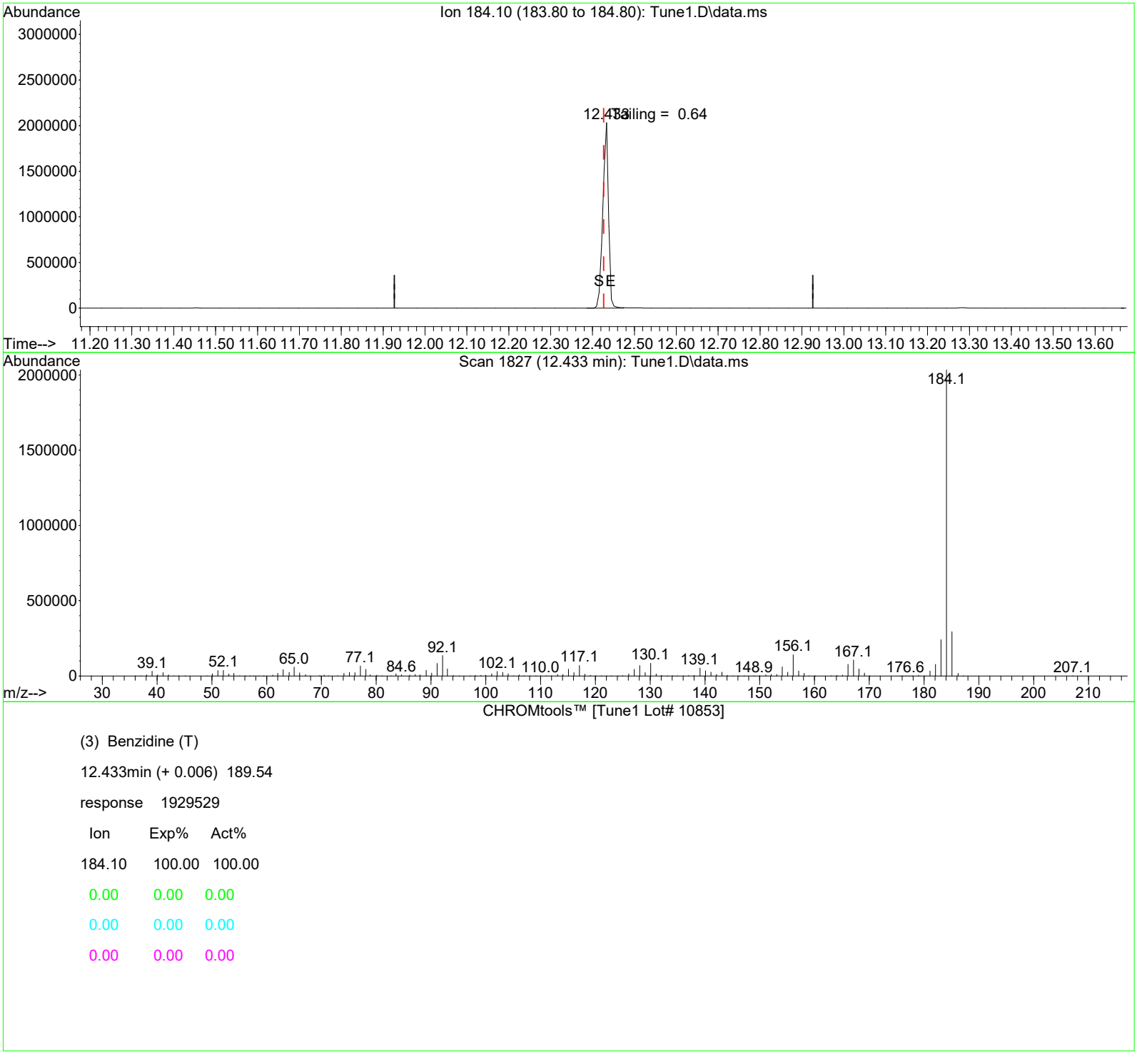
response 408616

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240624RVTical\
Data File : Tune1.D
Acq On : 24 Jun 2024 4:32 pm
Operator : SV106:ljg
Sample : Tune1 Lot# 10853
Misc : WG1939040
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 24 20:27:19 2024
Quant Method : I:\8270\SV106\240624RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 23:55:18 2024
Response via : Initial Calibration



(3) Benzidine (T)

12.433min (+ 0.006) 189.54

response 1929529

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL9.D
Acq On : 24 Jun 2024 4:56 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939040
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 05:56:15 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.463	152	32717	4.000 ug/ml	# 0.00
Standard Area 1 = 34411			Recovery = 95.08%		
35) IS1_Naphthalene-d8	7.892	136	116482	4.000 ug/ml	# 0.00
Standard Area 1 = 121176			Recovery = 96.13%		
63) IS1_Acenaphthene-d10	9.657	164	76080	4.000 ug/ml	0.00
Standard Area 1 = 79426			Recovery = 95.79%		
88) IS1_Phenanthrene-d10	11.098	188	164872	4.000 ug/ml	0.00
Standard Area 1 = 176143			Recovery = 93.60%		
104) IS1_Chrysene-d12	13.757	240	165960	4.000 ug/ml	# 0.01
Standard Area 1 = 174707			Recovery = 94.99%		
113) IS1_Perylene-d12	15.221	264	170773	4.000 ug/ml	0.00
Standard Area 1 = 195526			Recovery = 87.34%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.581	112	484863	52.419 ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2620.95%#		
7) Phenol-d6	6.104	99	632521	52.936 ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 2646.80%#		
19) Nitrobenzene-d5	7.122	82	657496	51.389 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5138.90%#		
46) 2-Fluorobiphenyl	9.016	172	1414928	52.386 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 5238.60%#		
79) 2,4,6-Tribromophenol	10.433	330	251000	62.012 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 3100.60%#		
96) 4-Terphenyl-d14	12.692	244	2078553	58.541 ug/ml	0.01
Spiked Amount 1.000	Range 30 - 130		Recovery = 5854.10%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.157	74	346550	53.715 ug/ml#	72
3) Pyridine	2.198	79	576884	59.734 ug/ml#	65
5) Aniline	6.063	93	841924	54.465 ug/ml	99
6) 2-Chlorophenol	6.210	128	517763	51.486 ug/ml	99
8) Phenol	6.122	94	658232	51.701 ug/ml	91
9) Bis(2-chloroethyl)ether	6.186	93	527037	52.422 ug/ml#	76
10) 1,3-Dichlorobenzene	6.392	146	606734	52.135 ug/ml	99
11) 1,4-Dichlorobenzene	6.486	146	611062	50.265 ug/ml	99
12) 1,2-Dichlorobenzene	6.663	146	583898	52.614 ug/ml	99
13) Benzyl alcohol	6.681	79	535471	55.065 ug/ml	92
14) Bis(2-chloroisopropyl)...	6.851	45	796608	53.609 ug/ml#	52

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL9.D
Acq On : 24 Jun 2024 4:56 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939040
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 05:56:15 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.845	108	474449	52.371	ug/ml	98
16) Hexachloroethane	7.051	117	239091	48.237	ug/ml#	53
17) n-Nitrosodi-n-propylamine	7.004	70	441666	52.203	ug/ml#	90
18) 3-Methylphenol/4-Methy...	7.033	108	523630	53.173	ug/ml	99
20) Nitrobenzene	7.145	77	656482	53.331	ug/ml	92
21) Isophorone	7.428	82	1150385	52.676	ug/ml#	93
22) 2-Nitrophenol	7.498	139	297532	58.452	ug/ml#	89
23) 2,4-Dimethylphenol	7.604	107	533668	51.750	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.698	93	680698	49.681	ug/ml#	96
25) 2,4-Dichlorophenol	7.769	162	512698	54.545	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.845	180	578950	50.427	ug/ml	98
36) Naphthalene	7.916	128	1570488	50.574	ug/ml	99
37) Benzoic Acid	7.792	105	486643	54.483	ug/ml	95
38) 4-Chloroaniline	7.998	65	242854	52.152	ug/ml	90
39) Hexachlorobutadiene	8.080	225	397688	49.660	ug/ml	99
40) p-Chloro-m-cresol	8.522	107	519164	54.542	ug/ml	94
41) 2-Methylnaphthalene	8.633	142	1068269	51.630	ug/ml#	94
42) 1-Methylnaphthalene	8.727	115	418575	48.386	ug/ml	77
43) Hexachlorocyclopentadiene	8.810	237	485636	61.086	ug/ml	99
44) 2,4,6-Trichlorophenol	8.927	196	453661	58.652	ug/ml	97
45) 2,4,5-Trichlorophenol	8.957	196	470572	55.857	ug/ml	98
47) 2-Chloronaphthalene	9.110	162	1121885	51.853	ug/ml	98
48) 2-Nitroaniline	9.227	138	369880	59.038	ug/ml	99
49) 1,4-Dinitrobenzene	9.363	168	203442	61.307	ug/ml	86
50) 1,3-Dinitrobenzene	9.439	168	216044	56.942	ug/ml#	1
51) Dimethyl phthalate	9.439	163	1385638	48.459	ug/ml#	99
52) Acenaphthylene	9.516	152	1794194	53.328	ug/ml	100
53) 2,6-Dinitrotoluene	9.480	165	315063	54.862	ug/ml	88
54) 1,2-Dinitrobenzene	9.527	168	134287	59.461	ug/ml#	1
64) 3-Nitroaniline	9.639	138	324497	58.265	ug/ml	94
65) Acenaphthene	9.692	154	1053017	55.894	ug/ml	93
66) 2,4-Dinitrophenol	9.739	184	244160	65.424	ug/ml	92
67) Dibenzofuran	9.863	168	1706078	51.723	ug/ml	97
68) 2,4-Dinitrotoluene	9.874	165	447959	59.122	ug/ml	96
69) 4-Nitrophenol	9.827	65	328543	54.981	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	9.951	232	454854	67.824	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	9.998	232	426460	64.769	ug/ml	97
72) Diethyl phthalate	10.133	149	1370032	49.913	ug/ml	98
73) Fluorene	10.198	166	1374365	53.032	ug/ml	95
74) 4-Chlorophenyl phenyl ...	10.216	204	708419	51.959	ug/ml	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL9.D
Acq On : 24 Jun 2024 4:56 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939040
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 05:56:15 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	10.239	138	302645	55.479	ug/ml#	82
76)	4,6-Dinitro-o-cresol	10.269	198	301830	70.707	ug/ml#	67
77)	NDPA/DPA	10.333	169	1148670	53.823	ug/ml	96
78)	Azobenzene	10.368	77	1379449	50.728	ug/ml	99
80)	4-Bromophenyl phenyl e...	10.686	248	450424M3	55.451	ug/ml	
81)	Hexachlorobenzene	10.739	284	506275	53.834	ug/ml#	80
82)	Pentachlorophenol	10.933	266	389063	71.000	ug/ml	99
89)	Phenanthrene	11.127	178	2163617	53.153	ug/ml	99
90)	Anthracene	11.174	178	2212811	54.951	ug/ml	99
91)	Carbazole	11.345	167	2012029	54.613	ug/ml	100
92)	Di-n-butylphthalate	11.733	149	2475111	55.123	ug/ml	99
93)	Fluoranthene	12.286	202	2670017	57.292	ug/ml#	91
94)	Benzidine	12.439	184	1635964	61.233	ug/ml#	94
95)	Pyrene	12.504	202	2820132	57.308	ug/ml	100
97)	Butyl benzyl phthalate	13.215	149	1156504	60.560	ug/ml	96
105)	Benzo(a)anthracene	13.745	228	2861362	53.298	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.745	252	1081792	58.501	ug/ml#	96
107)	Chrysene	13.786	228	2650129	50.014	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.857	149	1731431	54.397	ug/ml#	95
109)	Di-n-octylphthalate	14.545	149	2930404	56.200	ug/ml#	75
110)	Benzo(b)fluoranthene	14.862	252	2750629	56.118	ug/ml#	92
111)	Benzo(k)fluoranthene	14.892	252	2464317M3	51.471	ug/ml	
112)	Benzo(a)pyrene	15.174	252	2400552	54.683	ug/ml#	91
114)	Indeno(1,2,3-cd)pyrene	16.221	276	1840389M6	43.859	ug/mL	
115)	Dibenzo(a,h)anthracene	16.245	278	1877445	47.055	ug/ml#	86
116)	Benzo(ghi)perylene	16.474	276	1323180	33.589	ug/ml#	82

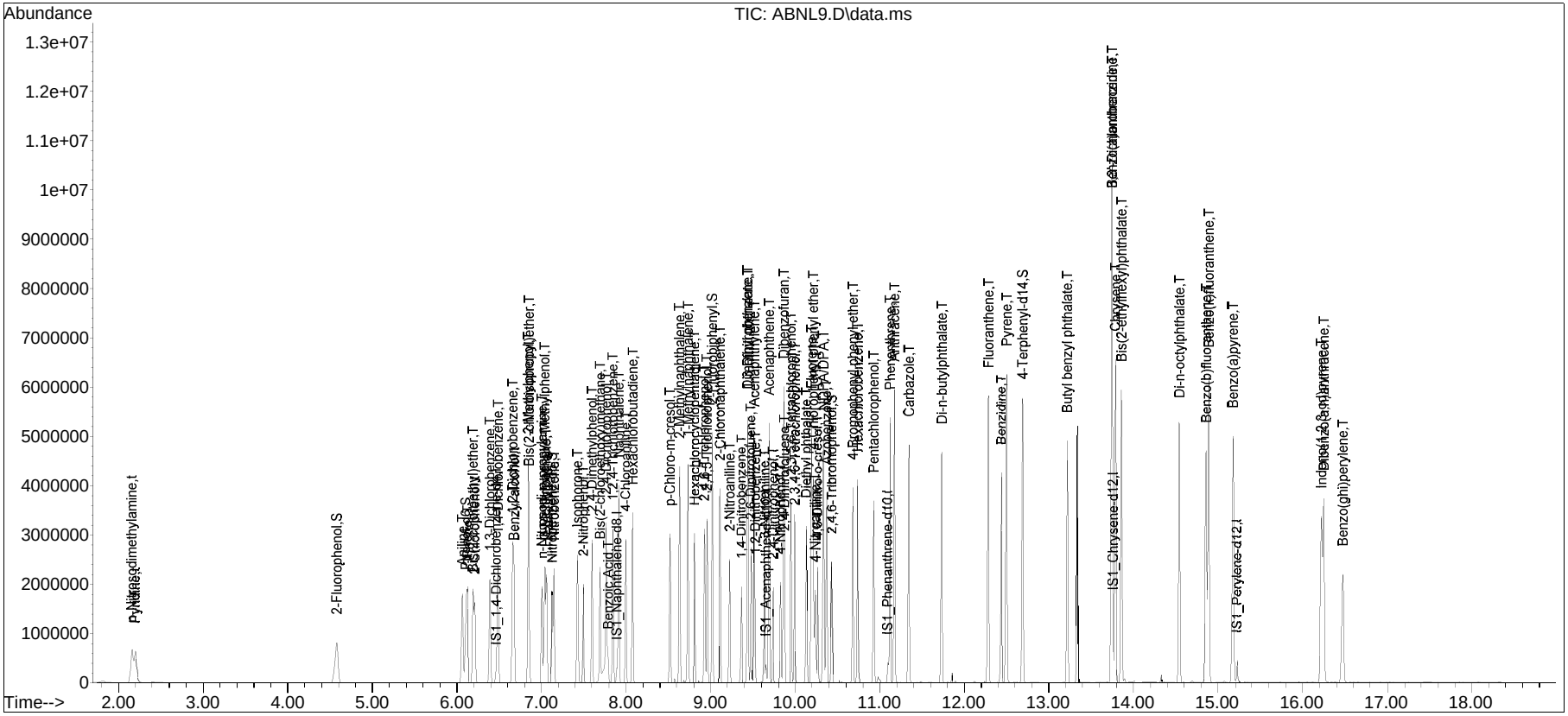
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL9.D
Acq On : 24 Jun 2024 4:56 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL50 Lot# 10778
Misc : WG1939040
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 05:56:15 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

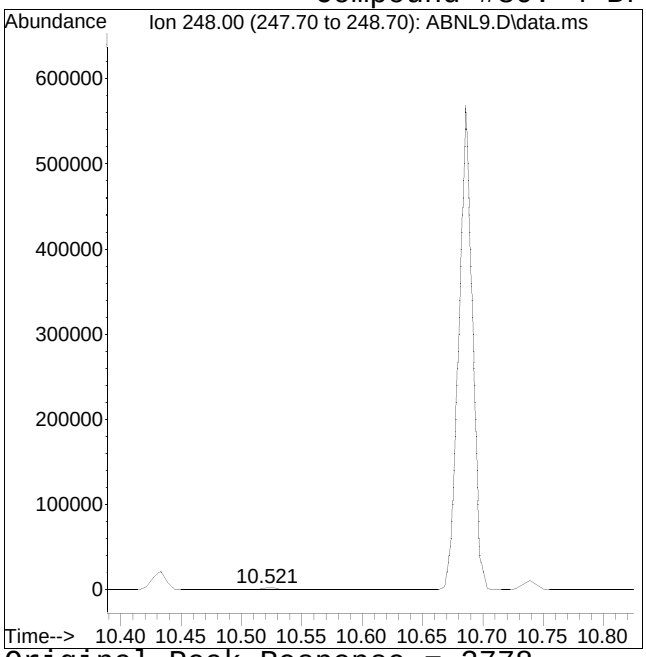
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

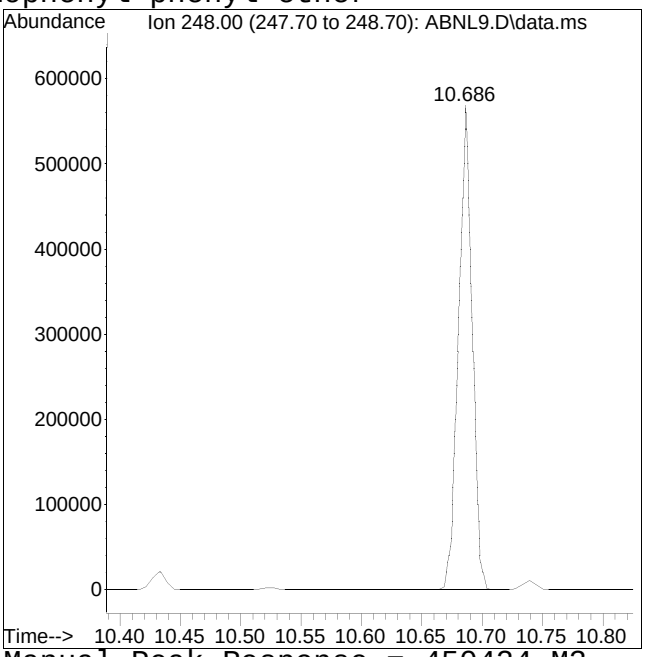


Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL9.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 4:56 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/25/2024 5:34 am

Compound #80: 4-Bromophenyl phenyl ether



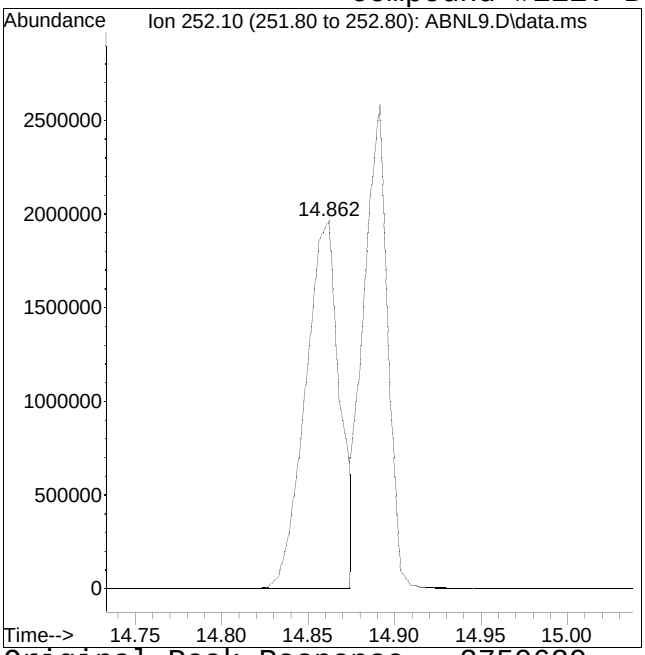


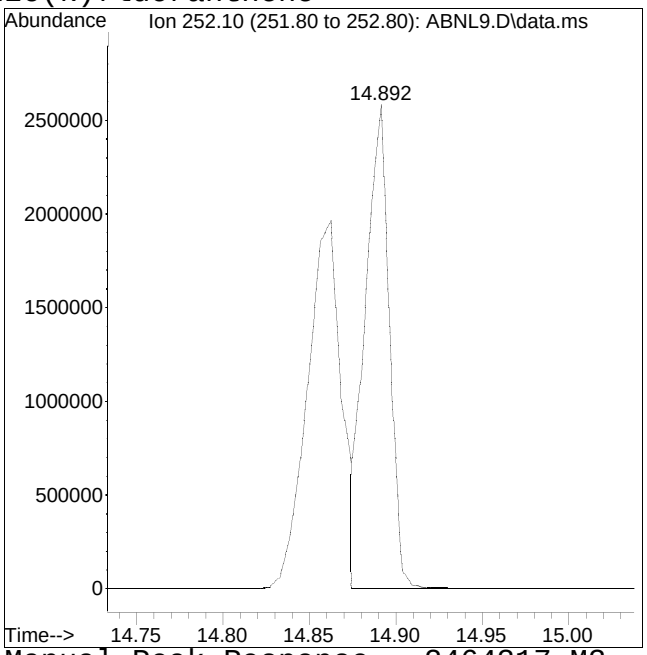
Original Peak Response = 2778 Manual Peak Response = 450424 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL9.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 4:56 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/25/2024 5:34 am

Compound #111: Benzo(k)fluoranthene



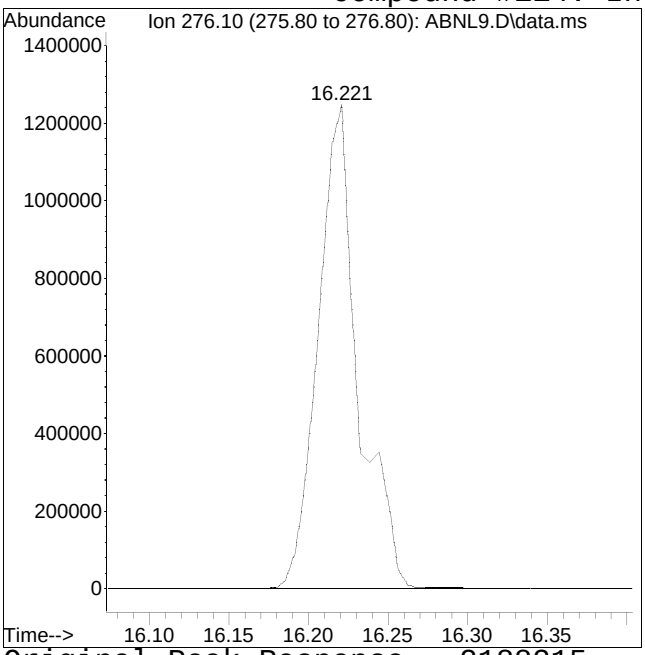


Original Peak Response = 2750629 Manual Peak Response = 2464317 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

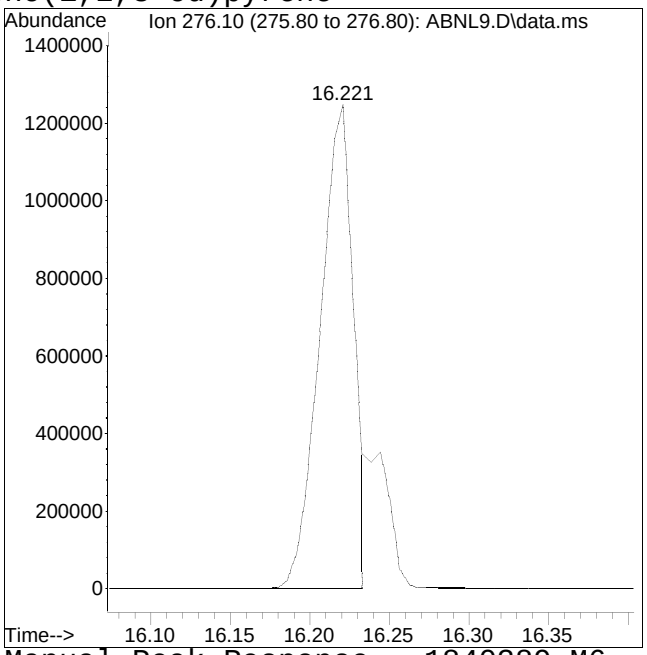
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL9.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 4:56 pm Instrument : SV 106
Sample : IL2,32,,ABNL50 Lot# 10778 Quant Date : 6/25/2024 5:34 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 2188215



Manual Peak Response = 1840389 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL8.D
Acq On : 24 Jun 2024 5:20 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939040
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 05:55:11 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.463	152	33019	4.000 ug/ml	# 0.00
Standard Area 1 = 34411			Recovery = 95.95%		
35) IS1_Naphthalene-d8	7.887	136	118189	4.000 ug/ml	# 0.00
Standard Area 1 = 121176			Recovery = 97.53%		
63) IS1_Acenaphthene-d10	9.657	164	76354	4.000 ug/ml	0.00
Standard Area 1 = 79426			Recovery = 96.13%		
88) IS1_Phenanthrene-d10	11.098	188	169867	4.000 ug/ml	0.00
Standard Area 1 = 176143			Recovery = 96.44%		
104) IS1_Chrysene-d12	13.751	240	174167	4.000 ug/ml	0.00
Standard Area 1 = 174707			Recovery = 99.69%		
113) IS1_Perylene-d12	15.221	264	190607	4.000 ug/ml	0.00
Standard Area 1 = 195526			Recovery = 97.48%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.575	112	237510	25.442 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1272.10%#		
7) Phenol-d6	6.098	99	313213	25.973 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1298.65%#		
19) Nitrobenzene-d5	7.116	82	322364	24.965 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2496.50%#		
46) 2-Fluorobiphenyl	9.016	172	683862	24.953 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2495.30%#		
79) 2,4,6-Tribromophenol	10.428	330	120340	29.624 ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 1481.20%#		
96) 4-Terphenyl-d14	12.686	244	1062138	29.035 ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 2903.50%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.152	74	169555	26.041 ug/ml#	72
3) Pyridine	2.193	79	278686	28.593 ug/ml#	66
5) Aniline	6.057	93	408055	26.156 ug/ml	99
6) 2-Chlorophenol	6.204	128	256233	25.247 ug/ml	100
8) Phenol	6.110	94	324899	25.286 ug/ml	91
9) Bis(2-chloroethyl)ether	6.187	93	262476	25.868 ug/ml#	75
10) 1,3-Dichlorobenzene	6.387	146	297987	25.371 ug/ml	99
11) 1,4-Dichlorobenzene	6.481	146	305850	24.928 ug/ml	99
12) 1,2-Dichlorobenzene	6.663	146	293321	26.189 ug/ml	99
13) Benzyl alcohol	6.669	79	262244	26.721 ug/ml	91
14) Bis(2-chloroisopropyl)...	6.845	45	409819	27.327 ug/ml#	55

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL8.D
Acq On : 24 Jun 2024 5:20 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939040
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 05:55:11 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.840	108	233353	25.523	ug/ml	97
16) Hexachloroethane	7.051	117	118082	23.605	ug/ml#	51
17) n-Nitrosodi-n-propylamine	6.998	70	217266	25.445	ug/ml#	90
18) 3-Methylphenol/4-Methy...	7.028	108	256559	25.815	ug/ml	98
20) Nitrobenzene	7.140	77	322030	25.921	ug/ml	92
21) Isophorone	7.422	82	563506	25.567	ug/ml	94
22) 2-Nitrophenol	7.498	139	145422	28.308	ug/ml#	90
23) 2,4-Dimethylphenol	7.598	107	260041	24.986	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.692	93	338538	24.483	ug/ml	97
25) 2,4-Dichlorophenol	7.763	162	252916	26.661	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.845	180	284342	24.540	ug/ml	98
36) Naphthalene	7.910	128	767174	24.348	ug/ml	99
37) Benzoic Acid	7.751	105	232608	27.348	ug/ml	96
38) 4-Chloroaniline	7.992	65	119766	25.348	ug/ml	90
39) Hexachlorobutadiene	8.081	225	197178	24.266	ug/ml	99
40) p-Chloro-m-cresol	8.522	107	254908	26.393	ug/ml	93
41) 2-Methylnaphthalene	8.628	142	520103	24.774	ug/ml#	94
42) 1-Methylnaphthalene	8.722	115	203926	23.233	ug/ml	78
43) Hexachlorocyclopentadiene	8.810	237	238503	29.567	ug/ml	99
44) 2,4,6-Trichlorophenol	8.928	196	216636	27.603	ug/ml	97
45) 2,4,5-Trichlorophenol	8.957	196	231634	27.098	ug/ml	98
47) 2-Chloronaphthalene	9.110	162	549791	25.044	ug/ml	97
48) 2-Nitroaniline	9.222	138	181912	28.616	ug/ml	98
49) 1,4-Dinitrobenzene	9.357	168	100201	29.759	ug/ml	87
50) 1,3-Dinitrobenzene	9.433	168	109410	28.420	ug/ml#	1
51) Dimethyl phthalate	9.433	163	674367	23.244	ug/ml#	99
52) Acenaphthylene	9.510	152	873316	25.582	ug/ml	100
53) 2,6-Dinitrotoluene	9.475	165	154706	26.550	ug/ml	87
54) 1,2-Dinitrobenzene	9.516	168	66227	28.901	ug/ml#	1
64) 3-Nitroaniline	9.628	138	160872	28.782	ug/ml	93
65) Acenaphthene	9.686	154	515334	27.256	ug/ml	92
66) 2,4-Dinitrophenol	9.728	184	119484	32.073	ug/ml	92
67) Dibenzofuran	9.857	168	834268	25.202	ug/ml	97
68) 2,4-Dinitrotoluene	9.863	165	221103	29.077	ug/ml	96
69) 4-Nitrophenol	9.822	65	165093	27.529	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	9.951	232	221732	32.944	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	9.992	232	210898	31.916	ug/ml	98
72) Diethyl phthalate	10.128	149	674982	24.502	ug/ml	97
73) Fluorene	10.192	166	673937	25.911	ug/ml	95
74) 4-Chlorophenyl phenyl ...	10.210	204	344854	25.203	ug/ml	89

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL8.D
Acq On : 24 Jun 2024 5:20 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939040
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 05:55:11 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	10.228	138	153735	28.080	ug/ml#	83
76)	4,6-Dinitro-o-cresol	10.257	198	149905	34.991	ug/ml#	66
77)	NDPA/DPA	10.328	169	567620	26.501	ug/ml	97
78)	Azobenzene	10.363	77	671206	24.594	ug/ml	98
80)	4-Bromophenyl phenyl e...	10.680	248	221514M3	27.173	ug/ml	
81)	Hexachlorobenzene	10.733	284	250937	26.587	ug/ml#	80
82)	Pentachlorophenol	10.927	266	192805	35.059	ug/ml	100
89)	Phenanthrene	11.122	178	1074767	25.627	ug/ml	99
90)	Anthracene	11.169	178	1092831	26.340	ug/ml	99
91)	Carbazole	11.339	167	1028776	27.103	ug/ml	99
92)	Di-n-butylphthalate	11.727	149	1241508	26.836	ug/ml	99
93)	Fluoranthene	12.280	202	1367094	28.472	ug/ml#	91
94)	Benzidine	12.433	184	833166	30.268	ug/ml#	94
95)	Pyrene	12.498	202	1419120	27.990	ug/ml	100
97)	Butyl benzyl phthalate	13.216	149	587626	29.866	ug/ml	95
105)	Benzo(a)anthracene	13.739	228	1463603	25.977	ug/ml	100
106)	3,3'-Dichlorobenzidine	13.739	252	552003	28.444	ug/ml#	96
107)	Chrysene	13.780	228	1367208	24.587	ug/ml	99
108)	Bis(2-ethylhexyl)phtha...	13.857	149	889141	26.618	ug/ml#	94
109)	Di-n-octylphthalate	14.539	149	1513217	27.653	ug/ml#	75
110)	Benzo(b)fluoranthene	14.857	252	1446447	28.119	ug/ml#	91
111)	Benzo(k)fluoranthene	14.880	252	1274585	25.367	ug/ml#	92
112)	Benzo(a)pyrene	15.168	252	1279446M3	27.771	ug/ml	
114)	Indeno(1,2,3-cd)pyrene	16.215	276	1073913M6	22.929	ug/mL	
115)	Dibenzo(a,h)anthracene	16.239	278	1052473	23.633	ug/ml#	86
116)	Benzo(ghi)perylene	16.468	276	867244	19.724	ug/ml#	82

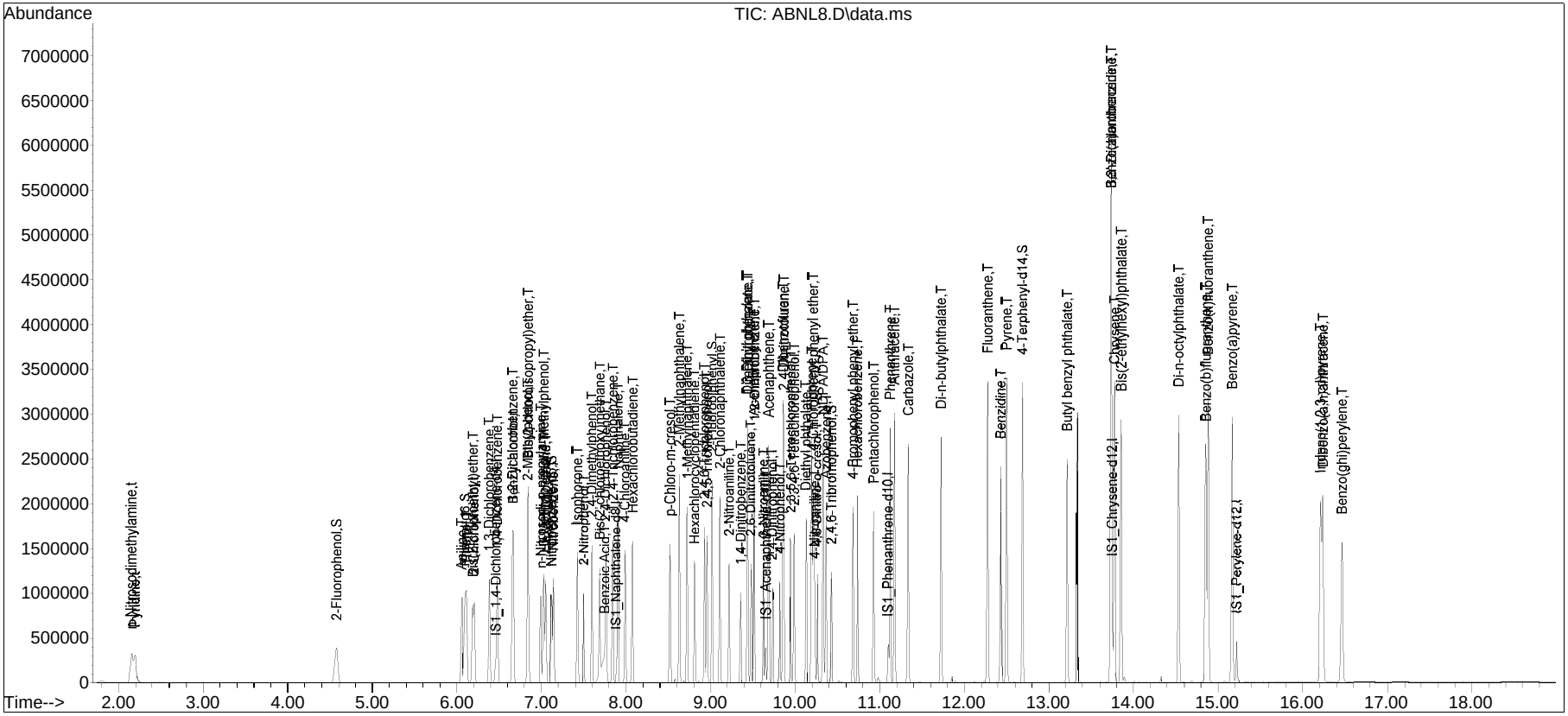
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL8.D
Acq On : 24 Jun 2024 5:20 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL25 Lot# 10779
Misc : WG1939040
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 05:55:11 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

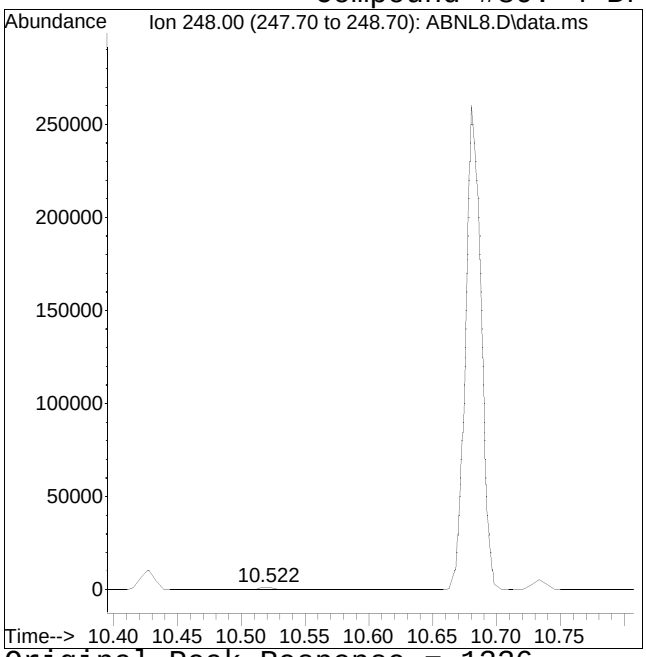
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

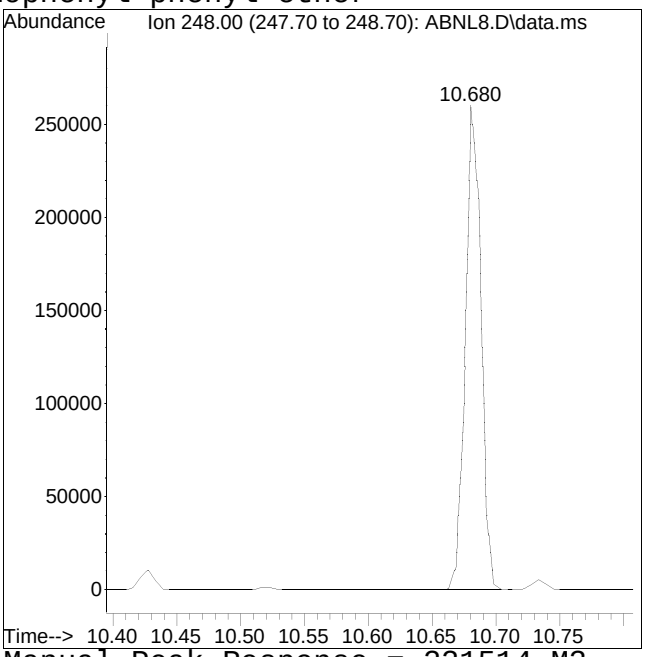


Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL8.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 5:20 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/25/2024 5:34 am

Compound #80: 4-Bromophenyl phenyl ether





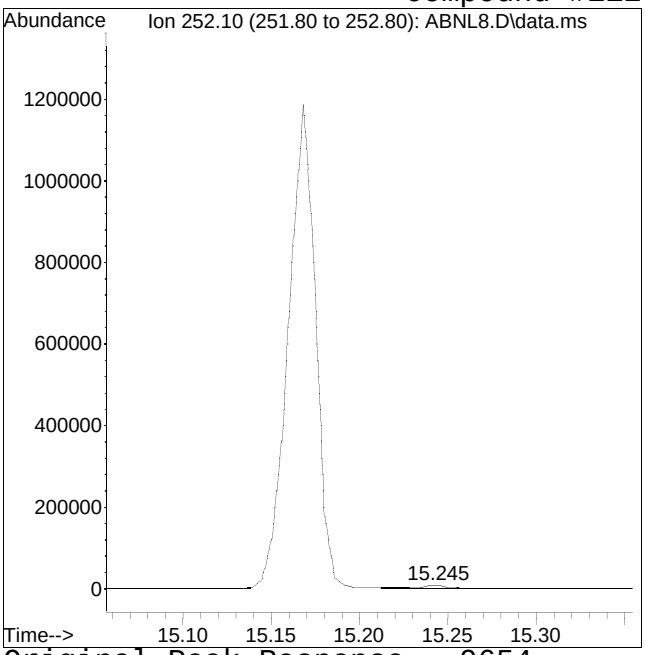
Original Peak Response = 1336 Manual Peak Response = 221514 M3

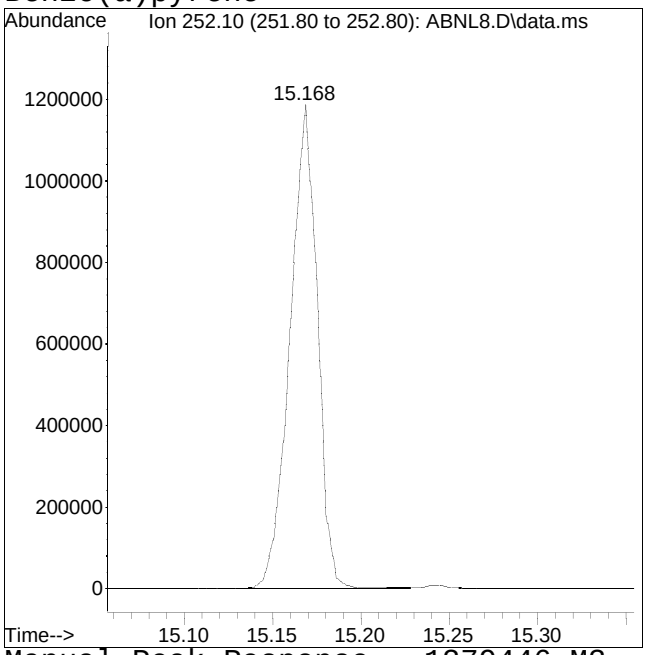
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL8.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 5:20 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/25/2024 5:34 am

Compound #112: Benzo(a)pyrene





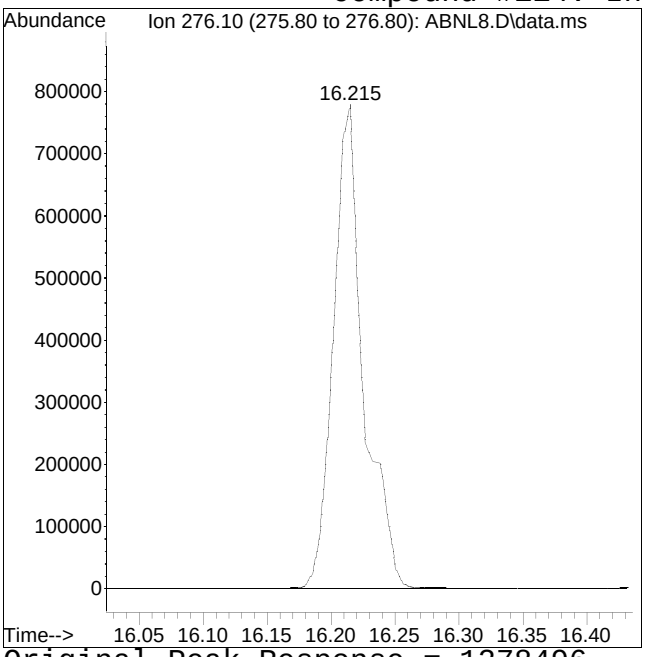
Original Peak Response = 9654 Manual Peak Response = 1279446 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

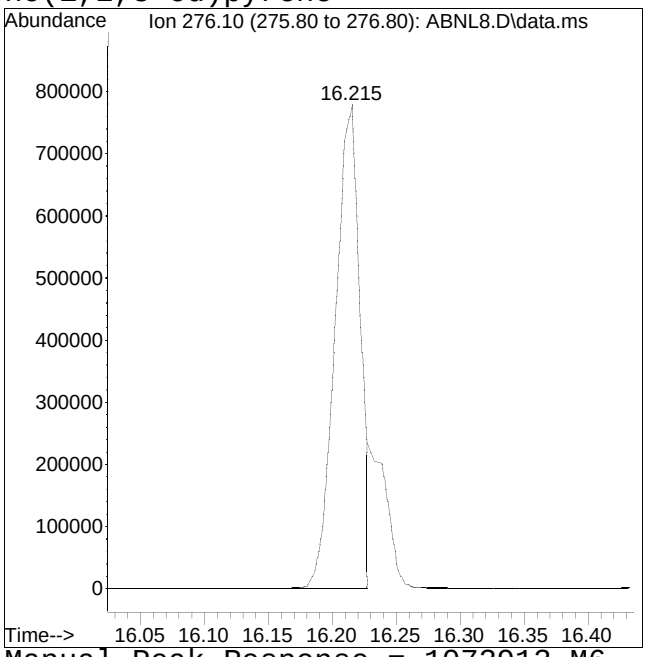
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL8.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 5:20 pm Instrument : SV 106
Sample : IL3,32,,ABNL25 Lot# 10779 Quant Date : 6/25/2024 5:34 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1278496



Manual Peak Response = 1073913 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL7.D
Acq On : 24 Jun 2024 5:43 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939040
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 05:54:07 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.463	152	33998	4.000	ug/ml	0.00
Standard Area 1 = 34411			Recovery = 98.80%			
35) IS1_Naphthalene-d8	7.887	136	120937	4.000	ug/ml #	0.00
Standard Area 1 = 121176			Recovery = 99.80%			
63) IS1_Acenaphthene-d10	9.657	164	80608	4.000	ug/ml	0.00
Standard Area 1 = 79426			Recovery = 101.49%			
88) IS1_Phenanthrene-d10	11.098	188	172374	4.000	ug/ml	0.00
Standard Area 1 = 176143			Recovery = 97.86%			
104) IS1_Chrysene-d12	13.745	240	173028	4.000	ug/ml #	0.00
Standard Area 1 = 174707			Recovery = 99.04%			
113) IS1_Perylene-d12	15.221	264	190260	4.000	ug/ml	0.00
Standard Area 1 = 195526			Recovery = 97.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.569	112	98879	10.287	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 514.35%#			
7) Phenol-d6	6.093	99	129362	10.418	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 520.90%#			
19) Nitrobenzene-d5	7.116	82	136275	10.250	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1025.00%#			
46) 2-Fluorobiphenyl	9.010	172	298392	10.641	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1064.10%#			
79) 2,4,6-Tribromophenol	10.428	330	51001	11.892	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 594.60%#			
96) 4-Terphenyl-d14	12.686	244	448569	12.084	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 1208.40%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.146	74	71445	10.657	ug/ml#	71
3) Pyridine	2.187	79	118475	11.805	ug/ml#	66
5) Aniline	6.051	93	169471	10.550	ug/ml	100
6) 2-Chlorophenol	6.198	128	106942	10.234	ug/ml	100
8) Phenol	6.110	94	136242	10.298	ug/ml#	91
9) Bis(2-chloroethyl)ether	6.181	93	111165	10.640	ug/ml#	75
10) 1,3-Dichlorobenzene	6.387	146	125722	10.396	ug/ml	99
11) 1,4-Dichlorobenzene	6.481	146	127977	10.130	ug/ml	100
12) 1,2-Dichlorobenzene	6.657	146	121496	10.535	ug/ml	98
13) Benzyl alcohol	6.669	79	106868	10.576	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.845	45	176726	11.445	ug/ml#	56

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL7.D
Acq On : 24 Jun 2024 5:43 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939040
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 05:54:07 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.840	108	100114	10.635	ug/ml	98
16) Hexachloroethane	7.051	117	50737	9.851	ug/ml#	52
17) n-Nitrosodi-n-propylamine	6.993	70	92145	10.481	ug/ml#	90
18) 3-Methylphenol/4-Methy...	7.028	108	108575	10.610	ug/ml	98
20) Nitrobenzene	7.134	77	139715	10.922	ug/ml	91
21) Isophorone	7.416	82	239645	10.560	ug/ml	93
22) 2-Nitrophenol	7.498	139	60502	11.438	ug/ml#	89
23) 2,4-Dimethylphenol	7.598	107	109786	10.245	ug/ml	91
24) Bis(2-chloroethoxy)met...	7.687	93	147145	10.335	ug/ml	97
25) 2,4-Dichlorophenol	7.763	162	105835	10.835	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.845	180	123619	10.362	ug/ml	98
36) Naphthalene	7.910	128	325650	10.100	ug/ml	99
37) Benzoic Acid	7.710	105	91700	11.073	ug/ml	96
38) 4-Chloroaniline	7.992	65	50979	10.544	ug/ml	91
39) Hexachlorobutadiene	8.081	225	84040	10.108	ug/ml	98
40) p-Chloro-m-cresol	8.516	107	106171	10.743	ug/ml	95
41) 2-Methylnaphthalene	8.628	142	221157	10.295	ug/ml#	93
42) 1-Methylnaphthalene	8.722	115	86121	9.589	ug/ml	80
43) Hexachlorocyclopentadiene	8.804	237	101147	12.254	ug/ml	99
44) 2,4,6-Trichlorophenol	8.928	196	93810	11.682	ug/ml	98
45) 2,4,5-Trichlorophenol	8.957	196	99391	11.363	ug/ml	97
47) 2-Chloronaphthalene	9.110	162	235262	10.473	ug/ml	97
48) 2-Nitroaniline	9.222	138	77367	11.894	ug/ml	97
49) 1,4-Dinitrobenzene	9.357	168	42058	12.207	ug/ml	87
50) 1,3-Dinitrobenzene	9.434	168	47548	12.070	ug/ml#	1
51) Dimethyl phthalate	9.428	163	293217	9.877	ug/ml#	98
52) Acenaphthylene	9.510	152	379388	10.861	ug/ml	100
53) 2,6-Dinitrotoluene	9.469	165	66760	11.197	ug/ml	88
54) 1,2-Dinitrobenzene	9.510	168	28669	12.227	ug/ml#	1
64) 3-Nitroaniline	9.628	138	66639	11.293	ug/ml	91
65) Acenaphthene	9.686	154	216464	10.844	ug/ml	90
66) 2,4-Dinitrophenol	9.728	184	48836	12.623	ug/ml#	89
67) Dibenzofuran	9.857	168	362712	10.379	ug/ml	97
68) 2,4-Dinitrotoluene	9.857	165	92663	11.543	ug/ml	95
69) 4-Nitrophenol	9.816	65	66265	10.466	ug/ml#	83
70) 2,3,5,6-Tetrachlorophenol	9.945	232	93502	13.159	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	9.986	232	88033	12.619	ug/ml	96
72) Diethyl phthalate	10.122	149	286731	9.859	ug/ml	98
73) Fluorene	10.192	166	290969	10.597	ug/ml	95
74) 4-Chlorophenyl phenyl ...	10.210	204	151106	10.460	ug/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL7.D
Acq On : 24 Jun 2024 5:43 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939040
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 05:54:07 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75)	4-Nitroaniline	10.216	138	64740	11.201	ug/ml	#	88
76)	4,6-Dinitro-o-cresol	10.251	198	59863	13.236	ug/ml	#	66
77)	NDPA/DPA	10.328	169	244751	10.824	ug/ml		97
78)	Azobenzene	10.357	77	287583	9.981	ug/ml		97
80)	4-Bromophenyl phenyl e...	10.681	248	96586	11.223	ug/ml	#	84
81)	Hexachlorobenzene	10.733	284	106470	10.685	ug/ml	#	81
82)	Pentachlorophenol	10.928	266	78930	13.595	ug/ml		100
89)	Phenanthrene	11.116	178	454080	10.670	ug/ml		99
90)	Anthracene	11.169	178	465546	11.058	ug/ml		99
91)	Carbazole	11.333	167	430627	11.180	ug/ml		99
92)	Di-n-butylphthalate	11.727	149	527892	11.245	ug/ml		99
93)	Fluoranthene	12.275	202	572546	11.751	ug/ml	#	91
94)	Benzidine	12.427	184	346393	12.401	ug/ml	#	94
95)	Pyrene	12.492	202	600708	11.676	ug/ml		100
97)	Butyl benzyl phthalate	13.210	149	241983	12.120	ug/ml		94
105)	Benzo(a)anthracene	13.733	228	612774	10.948	ug/ml		100
106)	3,3'-Dichlorobenzidine	13.733	252	227768	11.814	ug/ml	#	96
107)	Chrysene	13.774	228	562978	10.191	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	13.857	149	367256	11.067	ug/ml	#	95
109)	Di-n-octylphthalate	14.539	149	619510	11.396	ug/ml	#	75
110)	Benzo(b)fluoranthene	14.851	252	597526	11.693	ug/ml	#	91
111)	Benzo(k)fluoranthene	14.874	252	557100	11.160	ug/ml	#	91
112)	Benzo(a)pyrene	15.163	252	532009	11.624	ug/ml	#	91
114)	Indeno(1,2,3-cd)pyrene	16.210	276	537324M6	11.493	ug/mL		
115)	Dibenzo(a,h)anthracene	16.233	278	495383	11.144	ug/ml	#	87
116)	Benzo(ghi)perylene	16.468	276	463569	10.562	ug/ml	#	82

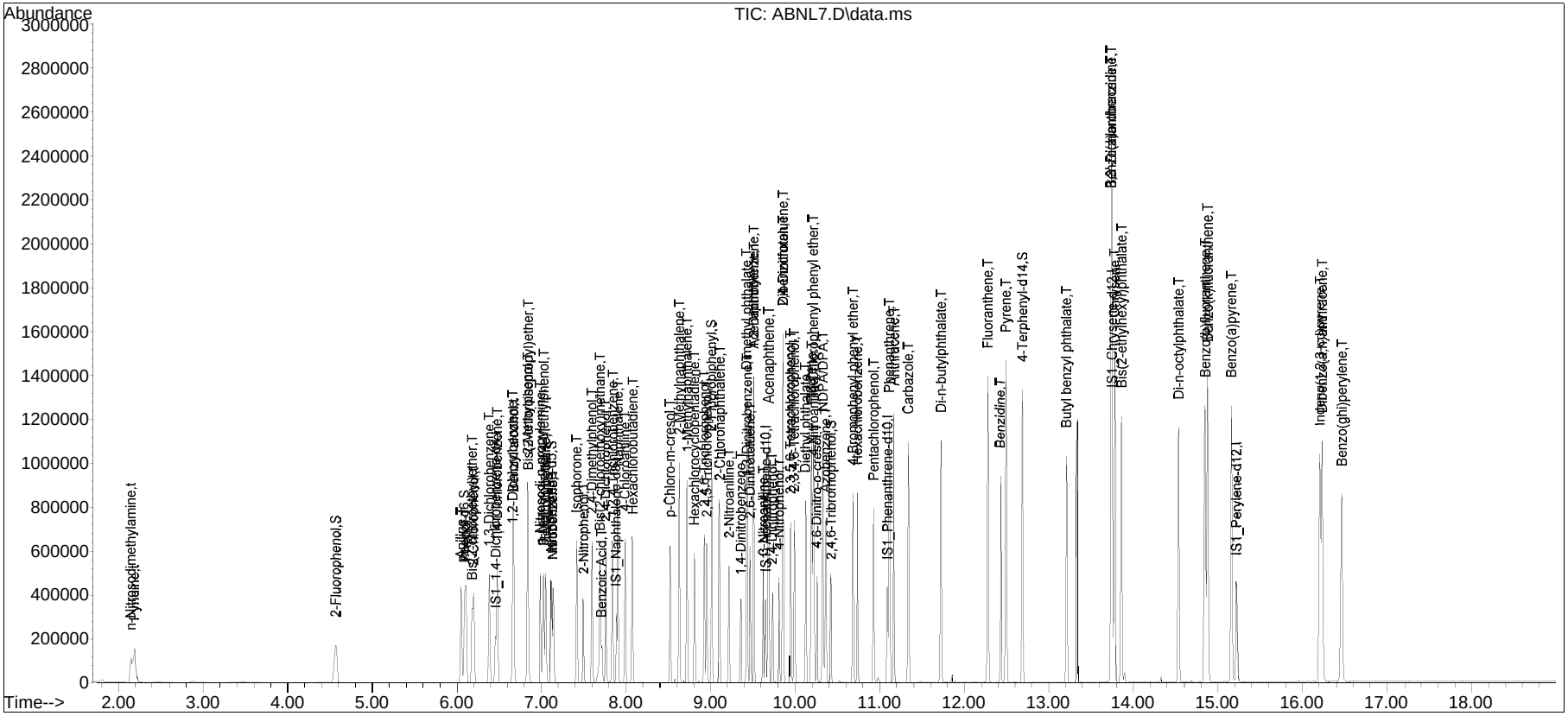
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL7.D
Acq On : 24 Jun 2024 5:43 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10780
Misc : WG1939040
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 25 05:54:07 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

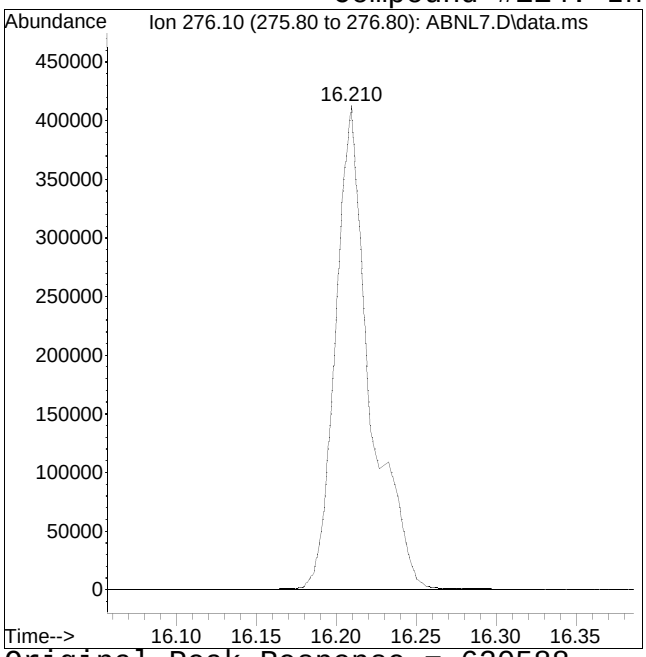
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



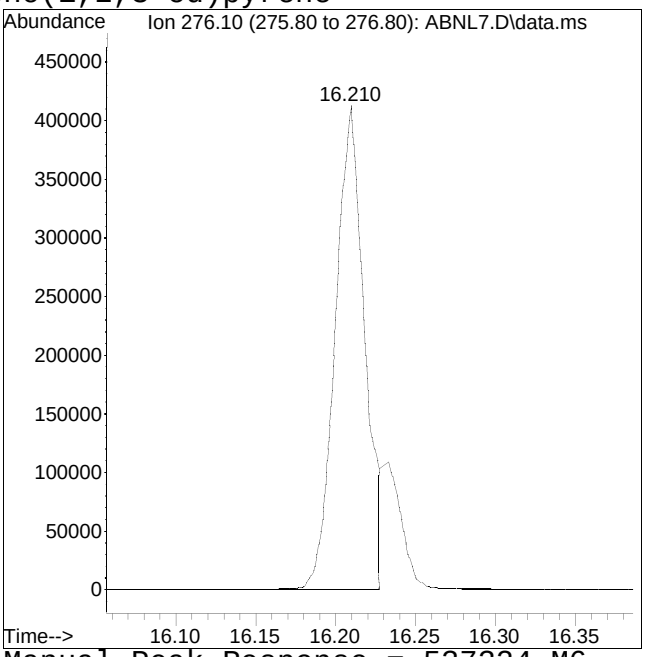
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL7.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 5:43 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 10780 Quant Date : 6/25/2024 5:34 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 620588



Manual Peak Response = 537324 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL6.D
Acq On : 24 Jun 2024 6:07 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939040
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 05:53:20 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.463	152	34411	4.000	ug/ml	0.00
Standard Area 1 = 34411			Recovery = 100.00%			
35) IS1_Naphthalene-d8	7.886	136	121176	4.000	ug/ml	# 0.00
Standard Area 1 = 121176			Recovery = 100.00%			
63) IS1_Acenaphthene-d10	9.651	164	79426	4.000	ug/ml	0.00
Standard Area 1 = 79426			Recovery = 100.00%			
88) IS1_Phenanthrene-d10	11.092	188	176143	4.000	ug/ml	0.00
Standard Area 1 = 176143			Recovery = 100.00%			
104) IS1_Chrysene-d12	13.745	240	174707	4.000	ug/ml	# 0.00
Standard Area 1 = 174707			Recovery = 100.00%			
113) IS1_Perylene-d12	15.215	264	195526	4.000	ug/ml	0.00
Standard Area 1 = 195526			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.569	112	46416	4.771	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 238.55%#			
7) Phenol-d6	6.093	99	60873	4.844	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 242.20%#			
19) Nitrobenzene-d5	7.116	82	62503	4.645	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 464.50%#			
46) 2-Fluorobiphenyl	9.010	172	139378	4.960	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 496.00%#			
79) 2,4,6-Tribromophenol	10.428	330	24197	5.726	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 286.30%#			
96) 4-Terphenyl-d14	12.680	244	211086	5.565	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 556.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.146	74	33390	4.921	ug/ml#	74
3) Pyridine	2.187	79	55126	5.427	ug/ml#	67
5) Aniline	6.051	93	80259	4.936	ug/ml	99
6) 2-Chlorophenol	6.198	128	49372	4.668	ug/ml	97
8) Phenol	6.104	94	64117	4.788	ug/ml	91
9) Bis(2-chloroethyl)ether	6.181	93	52631	4.977	ug/ml#	76
10) 1,3-Dichlorobenzene	6.387	146	60018	4.903	ug/ml	99
11) 1,4-Dichlorobenzene	6.481	146	60113	4.701	ug/ml	99
12) 1,2-Dichlorobenzene	6.657	146	58576	5.018	ug/ml	99
13) Benzyl alcohol	6.669	79	49863	4.875	ug/ml	91
14) Bis(2-chloroisopropyl)...	6.845	45	83104	5.317	ug/ml#	57

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL6.D
Acq On : 24 Jun 2024 6:07 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939040
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 05:53:20 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.840	108	46693	4.900	ug/ml	98
16) Hexachloroethane	7.051	117	23284	4.466	ug/ml#	49
17) n-Nitrosodi-n-propylamine	6.992	70	42735	4.802	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.022	108	49775	4.806	ug/ml	99
20) Nitrobenzene	7.134	77	62771	4.848	ug/ml	92
21) Isophorone	7.416	82	111710	4.863	ug/ml	94
22) 2-Nitrophenol	7.498	139	27744	5.182	ug/ml#	91
23) 2,4-Dimethylphenol	7.598	107	51002	4.702	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.687	93	69008	4.789	ug/ml	98
25) 2,4-Dichlorophenol	7.763	162	49224	4.979	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.839	180	56472	4.677	ug/ml	97
36) Naphthalene	7.910	128	152912	4.733	ug/ml	99
37) Benzoic Acid	7.687	105	39124	4.912	ug/ml	95
38) 4-Chloroaniline	7.992	65	23934	4.941	ug/ml	88
39) Hexachlorobutadiene	8.081	225	39649	4.759	ug/ml	99
40) p-Chloro-m-cresol	8.516	107	48736	4.922	ug/ml	95
41) 2-Methylnaphthalene	8.628	142	104599	4.860	ug/ml	93
42) 1-Methylnaphthalene	8.722	115	40244	4.472	ug/ml	80
43) Hexachlorocyclopentadiene	8.804	237	47070	5.691	ug/ml	97
44) 2,4,6-Trichlorophenol	8.928	196	42928	5.335	ug/ml	99
45) 2,4,5-Trichlorophenol	8.957	196	47052	5.369	ug/ml	95
47) 2-Chloronaphthalene	9.104	162	111763	4.966	ug/ml	97
48) 2-Nitroaniline	9.222	138	35258	5.410	ug/ml	99
49) 1,4-Dinitrobenzene	9.357	168	18490	5.356	ug/ml	91
50) 1,3-Dinitrobenzene	9.428	168	21627	5.479	ug/ml#	1
51) Dimethyl phthalate	9.428	163	139733	4.698	ug/ml#	98
52) Acenaphthylene	9.510	152	177144	5.061	ug/ml	99
53) 2,6-Dinitrotoluene	9.469	165	31275	5.235	ug/ml	87
54) 1,2-Dinitrobenzene	9.510	168	13415	5.710	ug/ml#	1
64) 3-Nitroaniline	9.622	138	31539	5.424	ug/ml	91
65) Acenaphthene	9.686	154	103447	5.260	ug/ml	91
66) 2,4-Dinitrophenol	9.728	184	21336	5.784	ug/ml#	88
67) Dibenzofuran	9.857	168	172560	5.011	ug/ml	96
68) 2,4-Dinitrotoluene	9.857	165	45671	5.774	ug/ml	94
69) 4-Nitrophenol	9.810	65	30284	4.854	ug/ml#	85
70) 2,3,5,6-Tetrachlorophenol	9.945	232	43397	6.198	ug/ml	100
71) 2,3,4,6-Tetrachlorophenol	9.986	232	42811	6.228	ug/ml	98
72) Diethyl phthalate	10.122	149	138908	4.847	ug/ml	99
73) Fluorene	10.186	166	138840	5.132	ug/ml	94
74) 4-Chlorophenyl phenyl ...	10.210	204	69797	4.904	ug/ml	89

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL6.D
Acq On : 24 Jun 2024 6:07 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939040
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 05:53:20 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75)	4-Nitroaniline	10.216	138	30722	5.394	ug/ml	#	89
76)	4,6-Dinitro-o-cresol	10.251	198	27648	6.204	ug/ml	#	65
77)	NDPA/DPA	10.322	169	118352	5.312	ug/ml		97
78)	Azobenzene	10.357	77	133021	4.686	ug/ml		96
80)	4-Bromophenyl phenyl e...	10.680	248	44876	5.292	ug/ml	#	83
81)	Hexachlorobenzene	10.733	284	50132	5.106	ug/ml	#	81
82)	Pentachlorophenol	10.927	266	36832	6.438	ug/ml		98
89)	Phenanthrene	11.116	178	217401	4.999	ug/ml		99
90)	Anthracene	11.169	178	224653	5.222	ug/ml		99
91)	Carbazole	11.333	167	203798	5.178	ug/ml		99
92)	Di-n-butylphthalate	11.727	149	247507	5.159	ug/ml		100
93)	Fluoranthene	12.274	202	271130	5.446	ug/ml	#	90
94)	Benzidine	12.427	184	161558	5.660	ug/ml	#	94
95)	Pyrene	12.492	202	286461	5.449	ug/ml		99
97)	Butyl benzyl phthalate	13.210	149	110253	5.404	ug/ml		96
105)	Benzo(a)anthracene	13.733	228	285698	5.055	ug/ml		99
106)	3,3'-Dichlorobenzidine	13.733	252	106752	5.484	ug/ml	#	95
107)	Chrysene	13.768	228	274645	4.924	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	13.851	149	173922	5.191	ug/ml	#	94
109)	Di-n-octylphthalate	14.533	149	283349	5.162	ug/ml	#	75
110)	Benzo(b)fluoranthene	14.845	252	269679	5.226	ug/ml	#	92
111)	Benzo(k)fluoranthene	14.874	252	277054	5.497	ug/ml	#	92
112)	Benzo(a)pyrene	15.163	252	253581	5.487	ug/ml	#	90
114)	Indeno(1,2,3-cd)pyrene	16.204	276	254150M6	5.290	ug/mL		
115)	Dibenzo(a,h)anthracene	16.227	278	244207	5.346	ug/ml	#	87
116)	Benzo(ghi)perylene	16.462	276	229314	5.084	ug/ml	#	82

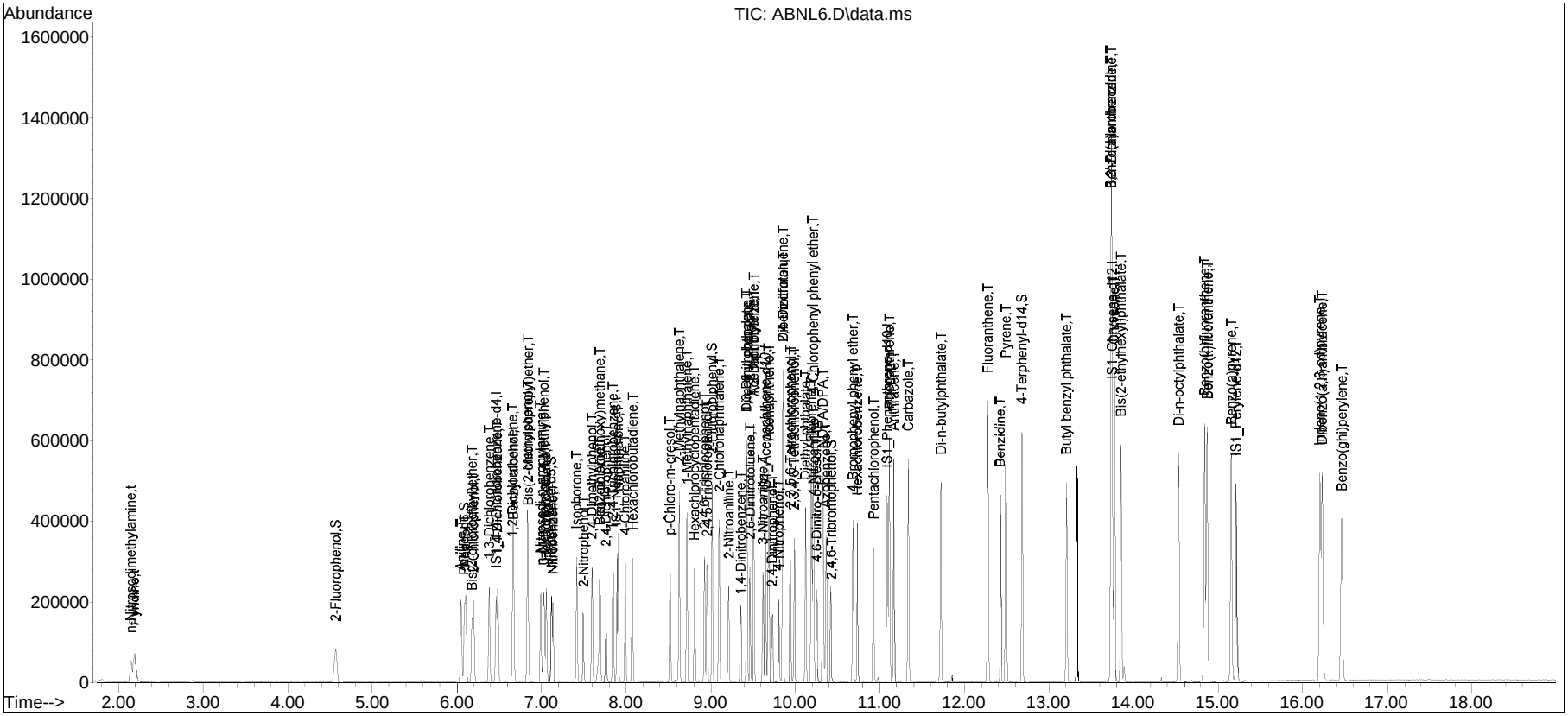
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL6.D
Acq On : 24 Jun 2024 6:07 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10781
Misc : WG1939040
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 25 05:53:20 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

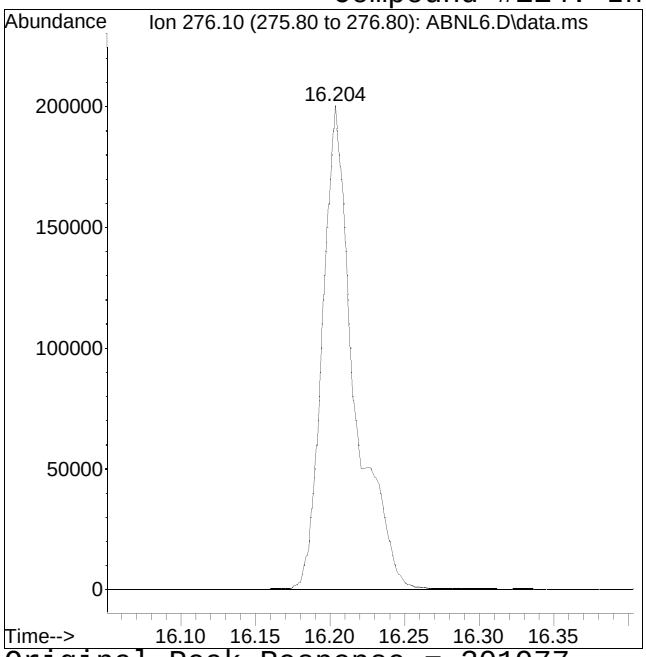
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



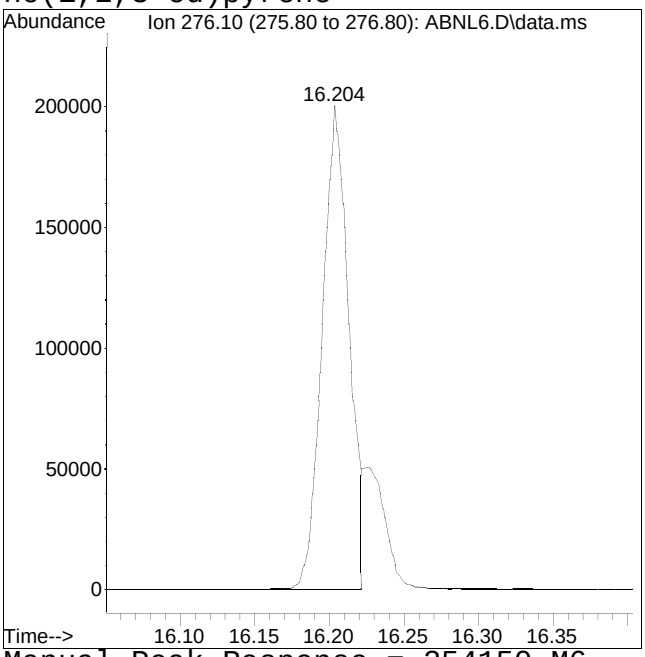
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 6:07 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 10781 Quant Date : 6/25/2024 5:34 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 301977



Manual Peak Response = 254150 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL5.D
Acq On : 24 Jun 2024 6:31 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939040
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 05:52:15 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.463	152	34165	4.000	ug/ml	0.00
Standard Area 1 = 34411			Recovery = 99.29%			
35) IS1_Naphthalene-d8	7.886	136	121152	4.000	ug/ml #	0.00
Standard Area 1 = 121176			Recovery = 99.98%			
63) IS1_Acenaphthene-d10	9.651	164	78435	4.000	ug/ml	0.00
Standard Area 1 = 79426			Recovery = 98.75%			
88) IS1_Phenanthrene-d10	11.092	188	181142	4.000	ug/ml	0.00
Standard Area 1 = 176143			Recovery = 102.84%			
104) IS1_Chrysene-d12	13.745	240	180502	4.000	ug/ml #	0.00
Standard Area 1 = 174707			Recovery = 103.32%			
113) IS1_Perylene-d12	15.215	264	197954	4.000	ug/ml	0.00
Standard Area 1 = 195526			Recovery = 101.24%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.569	112	22732	2.353	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 117.65%#			
7) Phenol-d6	6.092	99	31025	2.486	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 124.30%#			
19) Nitrobenzene-d5	7.116	82	31078	2.326	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 232.60%#			
46) 2-Fluorobiphenyl	9.010	172	73907	2.631	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 263.10%#			
79) 2,4,6-Tribromophenol	10.422	330	11988	2.873	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 143.65%#			
96) 4-Terphenyl-d14	12.680	244	110752	2.839	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 283.90%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.146	74	16530	2.454	ug/ml#	73
3) Pyridine	2.193	79	27593	2.736	ug/ml#	68
5) Aniline	6.051	93	40608	2.516	ug/ml	100
6) 2-Chlorophenol	6.198	128	25772	2.454	ug/ml	98
8) Phenol	6.104	94	32514	2.446	ug/ml	91
9) Bis(2-chloroethyl)ether	6.181	93	26824	2.555	ug/ml#	71
10) 1,3-Dichlorobenzene	6.387	146	31266	2.573	ug/ml	98
11) 1,4-Dichlorobenzene	6.481	146	30948	2.438	ug/ml	98
12) 1,2-Dichlorobenzene	6.657	146	29829	2.574	ug/ml	98
13) Benzyl alcohol	6.669	79	25253	2.487	ug/ml	90
14) Bis(2-chloroisopropyl)...	6.845	45	43021	2.772	ug/ml#	58

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL5.D
Acq On : 24 Jun 2024 6:31 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939040
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 05:52:15 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.839	108	23701	2.505	ug/ml	98
16) Hexachloroethane	7.051	117	11929	2.305	ug/ml#	47
17) n-Nitrosodi-n-propylamine	6.992	70	21864	2.475	ug/ml#	87
18) 3-Methylphenol/4-Methy...	7.028	108	24874	2.419	ug/ml#	94
20) Nitrobenzene	7.139	77	31837	2.477	ug/ml	92
21) Isophorone	7.416	82	56332	2.470	ug/ml	93
22) 2-Nitrophenol	7.498	139	14092	2.651	ug/ml#	91
23) 2,4-Dimethylphenol	7.598	107	25723	2.389	ug/ml	95
24) Bis(2-chloroethoxy)met...	7.686	93	34818	2.434	ug/ml	99
25) 2,4-Dichlorophenol	7.763	162	24809	2.528	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.839	180	29209	2.436	ug/ml	97
36) Naphthalene	7.910	128	79805	2.471	ug/ml	99
37) Benzoic Acid	7.669	105	17182	2.297	ug/ml	95
38) 4-Chloroaniline	7.992	65	12394	2.559	ug/ml	84
39) Hexachlorobutadiene	8.081	225	20530	2.465	ug/ml	99
40) p-Chloro-m-cresol	8.522	107	24529	2.478	ug/ml	96
41) 2-Methylnaphthalene	8.628	142	55092	2.560	ug/ml	97
42) 1-Methylnaphthalene	8.722	115	20578	2.287	ug/ml	79
43) Hexachlorocyclopentadiene	8.804	237	23851	2.884	ug/ml	99
44) 2,4,6-Trichlorophenol	8.928	196	22303	2.772	ug/ml	98
45) 2,4,5-Trichlorophenol	8.957	196	24004	2.739	ug/ml	95
47) 2-Chloronaphthalene	9.104	162	57615	2.560	ug/ml	96
48) 2-Nitroaniline	9.222	138	17382	2.667	ug/ml	99
49) 1,4-Dinitrobenzene	9.351	168	9137	2.647	ug/ml	94
50) 1,3-Dinitrobenzene	9.428	168	10499	2.661	ug/ml#	1
51) Dimethyl phthalate	9.428	163	71248	2.396	ug/ml	97
52) Acenaphthylene	9.510	152	89245	2.550	ug/ml	100
53) 2,6-Dinitrotoluene	9.469	165	15889	2.660	ug/ml	87
54) 1,2-Dinitrobenzene	9.510	168	6478	2.758	ug/ml#	1
64) 3-Nitroaniline	9.622	138	15521	2.703	ug/ml	90
65) Acenaphthene	9.686	154	53091	2.733	ug/ml	93
66) 2,4-Dinitrophenol	9.728	184	9149	2.701	ug/ml	92
67) Dibenzofuran	9.857	168	88957	2.616	ug/ml	98
68) 2,4-Dinitrotoluene	9.857	165	21597	2.765	ug/ml	93
69) 4-Nitrophenol	9.810	65	15513	2.518	ug/ml#	84
70) 2,3,5,6-Tetrachlorophenol	9.945	232	22373	3.236	ug/ml	96
71) 2,3,4,6-Tetrachlorophenol	9.986	232	21822	3.215	ug/ml	98
72) Diethyl phthalate	10.122	149	72940	2.578	ug/ml	97
73) Fluorene	10.186	166	70032	2.621	ug/ml	95
74) 4-Chlorophenyl phenyl ...	10.210	204	37527	2.670	ug/ml#	88

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL5.D
Acq On : 24 Jun 2024 6:31 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939040
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 05:52:15 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75)	4-Nitroaniline	10.210	138	16748	2.978	ug/ml	#	88
76)	4,6-Dinitro-o-cresol	10.251	198	13444	3.055	ug/ml	#	66
77)	NDPA/DPA	10.322	169	59164	2.689	ug/ml		97
78)	Azobenzene	10.357	77	66922	2.387	ug/ml		95
80)	4-Bromophenyl phenyl e...	10.680	248	23158	2.765	ug/ml	#	83
81)	Hexachlorobenzene	10.733	284	26093	2.691	ug/ml	#	80
82)	Pentachlorophenol	10.927	266	17699	3.133	ug/ml		99
89)	Phenanthrene	11.116	178	111757	2.499	ug/ml		99
90)	Anthracene	11.163	178	113025	2.555	ug/ml		99
91)	Carbazole	11.333	167	104159	2.573	ug/ml		98
92)	Di-n-butylphthalate	11.727	149	127043	2.575	ug/ml		99
93)	Fluoranthene	12.274	202	138839	2.712	ug/ml	#	92
94)	Benzidine	12.427	184	80269	2.735	ug/ml	#	95
95)	Pyrene	12.492	202	146929	2.718	ug/ml		100
97)	Butyl benzyl phthalate	13.210	149	56984	2.716	ug/ml		95
105)	Benzo(a)anthracene	13.733	228	152051	2.604	ug/ml		100
106)	3,3'-Dichlorobenzidine	13.733	252	52387	2.605	ug/ml	#	95
107)	Chrysene	13.768	228	146202	2.537	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	13.851	149	90089	2.602	ug/ml		95
109)	Di-n-octylphthalate	14.533	149	146591	2.585	ug/ml	#	75
110)	Benzo(b)fluoranthene	14.845	252	146018	2.739	ug/ml	#	92
111)	Benzo(k)fluoranthene	14.868	252	139804	2.685	ug/ml	#	91
112)	Benzo(a)pyrene	15.157	252	127828	2.677	ug/ml	#	90
114)	Indeno(1,2,3-cd)pyrene	16.204	276	133184M6	2.738	ug/mL		
115)	Dibenzo(a,h)anthracene	16.227	278	126489	2.735	ug/ml	#	87
116)	Benzo(ghi)perylene	16.456	276	121194	2.654	ug/ml	#	82

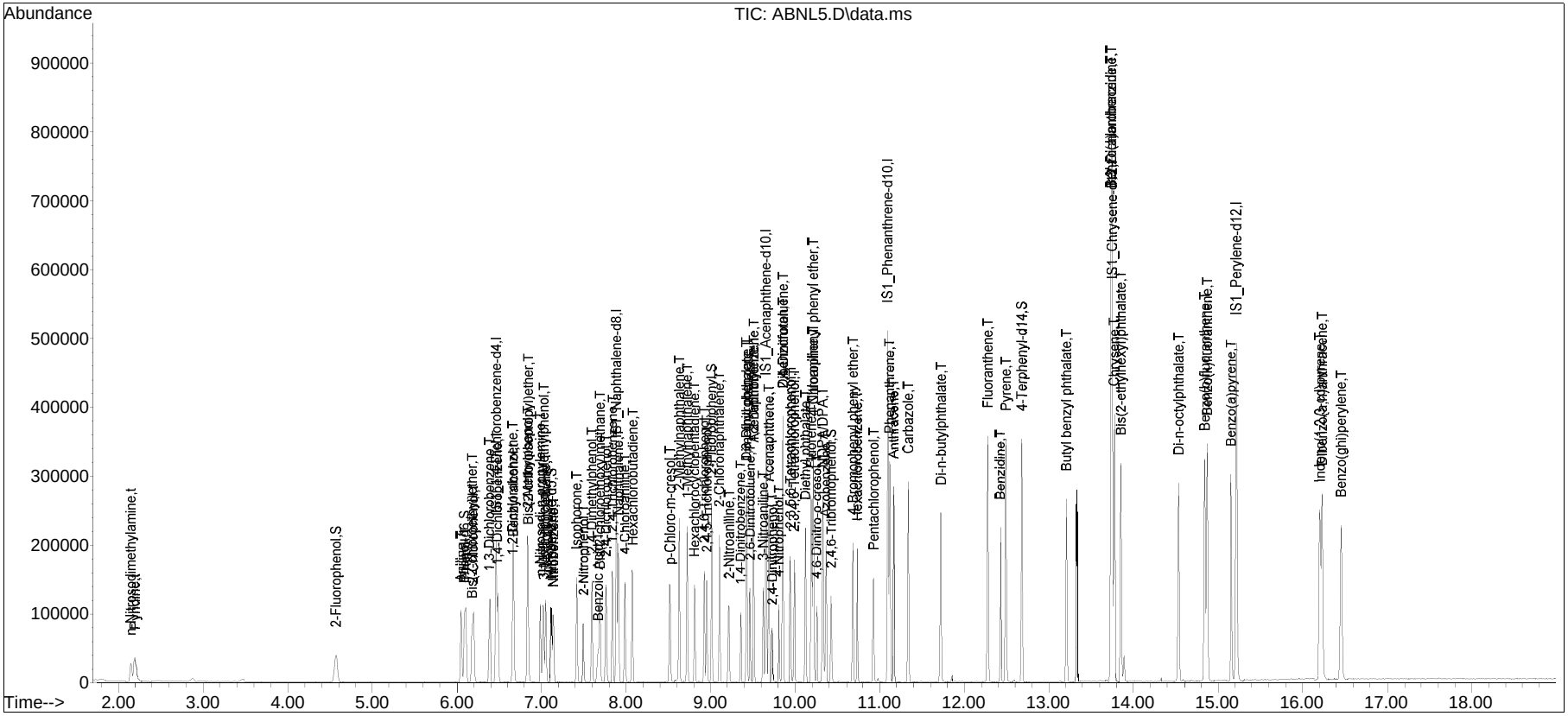
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL5.D
Acq On : 24 Jun 2024 6:31 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL2.5 Lot# 10782
Misc : WG1939040
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 05:52:15 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

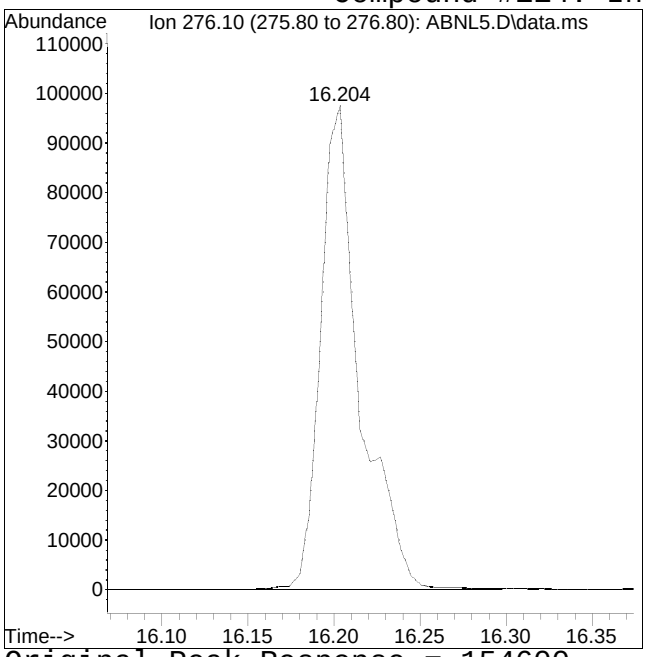
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



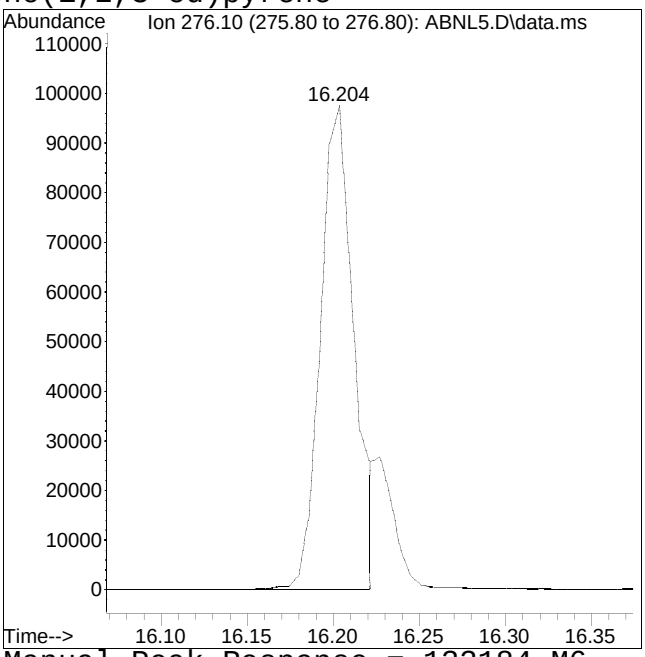
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL5.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 6:31 pm Instrument : SV 106
Sample : IL6,32,,ABNL2.5 Lot# 10782Quant Date : 6/25/2024 5:34 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 154600



Manual Peak Response = 133184 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL4.D
Acq On : 24 Jun 2024 6:54 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939040
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 05:51:23 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.463	152	33252	4.000	ug/ml	0.00
Standard Area 1 = 34411			Recovery = 96.63%			
35) IS1_Naphthalene-d8	7.886	136	119186	4.000	ug/ml #	0.00
Standard Area 1 = 121176			Recovery = 98.36%			
63) IS1_Acenaphthene-d10	9.651	164	75761	4.000	ug/ml	0.00
Standard Area 1 = 79426			Recovery = 95.39%			
88) IS1_Phenanthrene-d10	11.092	188	166179	4.000	ug/ml	0.00
Standard Area 1 = 176143			Recovery = 94.34%			
104) IS1_Chrysene-d12	13.739	240	173865	4.000	ug/ml #	0.00
Standard Area 1 = 174707			Recovery = 99.52%			
113) IS1_Perylene-d12	15.215	264	197182	4.000	ug/ml	0.00
Standard Area 1 = 195526			Recovery = 100.85%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.569	112	9505	1.011	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 50.55%			
7) Phenol-d6	6.092	99	12748	1.050	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 52.50%			
19) Nitrobenzene-d5	7.116	82	12826	0.986	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 98.60%			
46) 2-Fluorobiphenyl	9.010	172	28908	1.046	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 104.60%			
79) 2,4,6-Tribromophenol	10.422	330	4791	1.189	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 59.45%			
96) 4-Terphenyl-d14	12.680	244	44844	1.253	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 125.30%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.157	74	7093	1.082	ug/ml#	72
3) Pyridine	2.210	79	11353	1.157	ug/ml#	66
5) Aniline	6.051	93	16121	1.026	ug/ml	97
6) 2-Chlorophenol	6.198	128	10307	1.008	ug/ml	99
8) Phenol	6.104	94	14037	1.085	ug/ml	96
9) Bis(2-chloroethyl)ether	6.181	93	10847	1.062	ug/ml#	75
10) 1,3-Dichlorobenzene	6.387	146	12342	1.043	ug/ml	94
11) 1,4-Dichlorobenzene	6.481	146	12924	1.046	ug/ml	98
12) 1,2-Dichlorobenzene	6.663	146	12347	1.095	ug/ml	99
13) Benzyl alcohol	6.669	79	9873	0.999	ug/ml	93
14) Bis(2-chloroisopropyl)...	6.845	45	17236	1.141	ug/ml#	60

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL4.D
Acq On : 24 Jun 2024 6:54 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939040
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 05:51:23 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.839	108	9758	1.060	ug/ml	98
16) Hexachloroethane	7.051	117	4997	0.992	ug/ml#	37
17) n-Nitrosodi-n-propylamine	6.992	70	8932	1.039	ug/ml#	87
18) 3-Methylphenol/4-Methy...	7.022	108	10370	1.036	ug/ml	97
20) Nitrobenzene	7.139	77	13642	1.090	ug/ml#	88
21) Isophorone	7.416	82	22645	1.020	ug/ml	94
22) 2-Nitrophenol	7.498	139	5278	1.020	ug/ml#	89
23) 2,4-Dimethylphenol	7.598	107	10461	0.998	ug/ml	94
24) Bis(2-chloroethoxy)met...	7.686	93	13928	1.000	ug/ml#	96
25) 2,4-Dichlorophenol	7.763	162	9935	1.040	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.839	180	12012	1.029	ug/ml	98
36) Naphthalene	7.910	128	32375	1.019	ug/ml	99
37) Benzoic Acid	7.657	105	4874	0.825	ug/ml	94
38) 4-Chloroaniline	7.986	65	4591	0.964	ug/ml	96
39) Hexachlorobutadiene	8.081	225	8062	0.984	ug/ml	95
40) p-Chloro-m-cresol	8.516	107	9616	0.987	ug/ml	98
41) 2-Methylnaphthalene	8.628	142	22268	1.052	ug/ml	95
42) 1-Methylnaphthalene	8.722	115	8612	0.973	ug/ml	78
43) Hexachlorocyclopentadiene	8.804	237	10048	1.235	ug/ml	98
44) 2,4,6-Trichlorophenol	8.928	196	8325	1.052	ug/ml	98
45) 2,4,5-Trichlorophenol	8.957	196	9193	1.066	ug/ml	94
47) 2-Chloronaphthalene	9.104	162	23370	1.056	ug/ml	93
48) 2-Nitroaniline	9.222	138	6702	1.045	ug/ml	94
49) 1,4-Dinitrobenzene	9.351	168	3764	1.109	ug/ml	89
50) 1,3-Dinitrobenzene	9.428	168	4327	1.115	ug/ml#	1
51) Dimethyl phthalate	9.428	163	27563	0.942	ug/ml#	98
52) Acenaphthylene	9.510	152	35549	1.033	ug/ml	100
53) 2,6-Dinitrotoluene	9.469	165	6019	1.024	ug/ml	89
54) 1,2-Dinitrobenzene	9.510	168	2615	1.132	ug/ml#	1
64) 3-Nitroaniline	9.622	138	6050	1.091	ug/ml	86
65) Acenaphthene	9.686	154	20952	1.117	ug/ml	88
66) 2,4-Dinitrophenol	9.727	184	3177	1.186	ug/ml	95
67) Dibenzofuran	9.857	168	36089	1.099	ug/ml	98
68) 2,4-Dinitrotoluene	9.857	165	8563	1.135	ug/ml	92
69) 4-Nitrophenol	9.810	65	6170	1.037	ug/ml#	85
70) 2,3,5,6-Tetrachlorophenol	9.945	232	8394	1.257	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	9.986	232	8059	1.229	ug/ml	98
72) Diethyl phthalate	10.122	149	27754	1.015	ug/ml	96
73) Fluorene	10.192	166	28173	1.092	ug/ml	95
74) 4-Chlorophenyl phenyl ...	10.210	204	14281	1.052	ug/ml	89

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL4.D
Acq On : 24 Jun 2024 6:54 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939040
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 05:51:23 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75)	4-Nitroaniline	10.210	138	6596	1.214	ug/ml	#	88
76)	4,6-Dinitro-o-cresol	10.251	198	5104	1.201	ug/ml	#	68
77)	NDPA/DPA	10.322	169	24066	1.132	ug/ml		98
78)	Azobenzene	10.357	77	26637	0.984	ug/ml		96
80)	4-Bromophenyl phenyl e...	10.680	248	9267	1.146	ug/ml	#	84
81)	Hexachlorobenzene	10.733	284	10567	1.128	ug/ml	#	82
82)	Pentachlorophenol	10.927	266	6127	1.123	ug/ml		90
89)	Phenanthrene	11.116	178	46605	1.136	ug/ml		98
90)	Anthracene	11.163	178	45055	1.110	ug/ml		100
91)	Carbazole	11.333	167	42319	1.140	ug/ml		99
92)	Di-n-butylphthalate	11.721	149	47196	1.043	ug/ml		99
93)	Fluoranthene	12.274	202	55429	1.180	ug/ml	#	90
94)	Benzidine	12.427	184	30613	1.137	ug/ml	#	93
95)	Pyrene	12.492	202	58429	1.178	ug/ml		98
97)	Butyl benzyl phthalate	13.210	149	21998	1.143	ug/ml		94
105)	Benzo(a)anthracene	13.733	228	61253	1.089	ug/ml		98
106)	3,3'-Dichlorobenzidine	13.733	252	19850	1.025	ug/ml	#	95
107)	Chrysene	13.768	228	59264	1.068	ug/ml		100
108)	Bis(2-ethylhexyl)phtha...	13.851	149	32891	0.986	ug/ml	#	94
109)	Di-n-octylphthalate	14.533	149	53959	0.988	ug/ml	#	75
110)	Benzo(b)fluoranthene	14.845	252	60994	1.188	ug/ml	#	92
111)	Benzo(k)fluoranthene	14.868	252	57734	1.151	ug/ml	#	92
112)	Benzo(a)pyrene	15.157	252	51841	1.127	ug/ml	#	94
114)	Indeno(1,2,3-cd)pyrene	16.204	276	54265M6	1.120	ug/mL		
115)	Dibenzo(a,h)anthracene	16.227	278	52016	1.129	ug/ml	#	86
116)	Benzo(ghi)perylene	16.456	276	49379	1.086	ug/ml	#	83

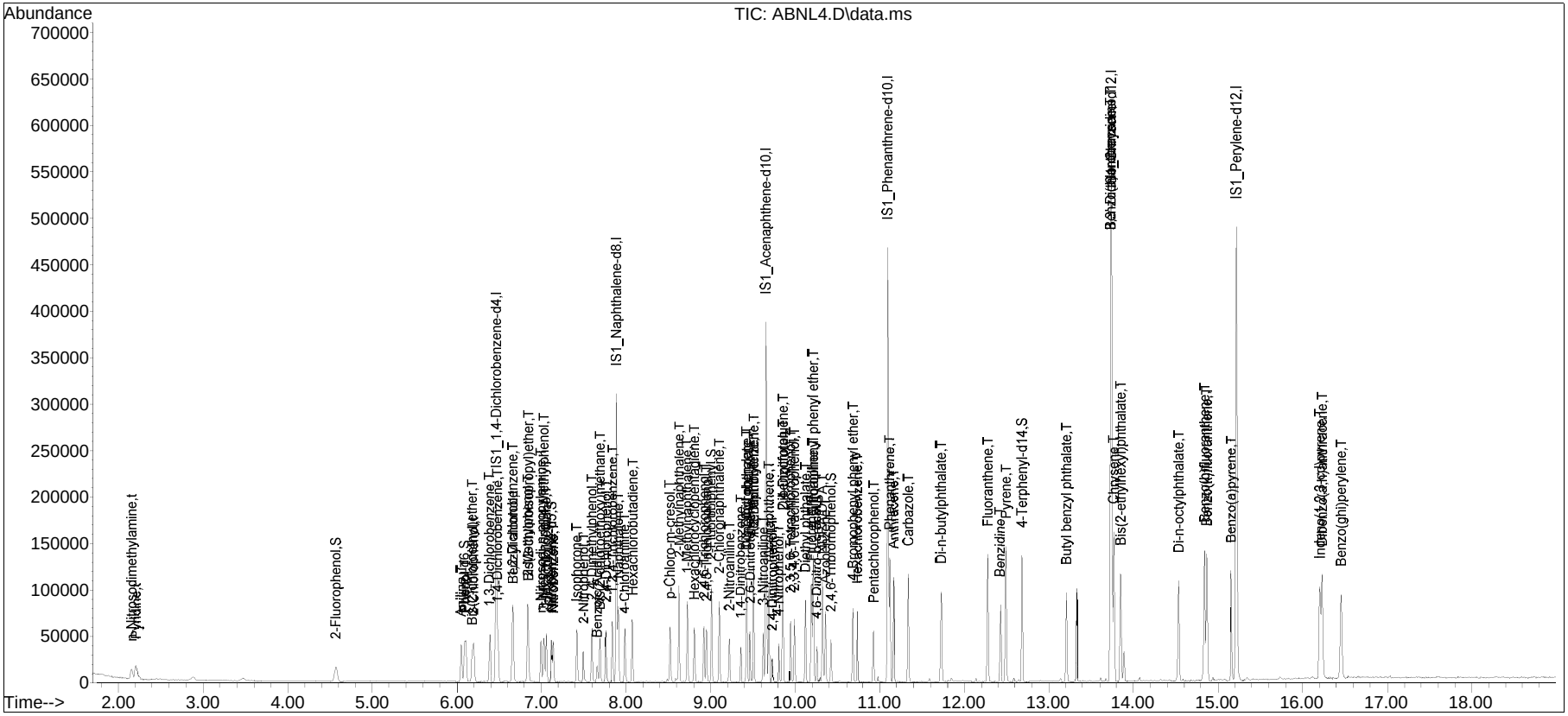
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL4.D
Acq On : 24 Jun 2024 6:54 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL1 Lot# 10783
Misc : WG1939040
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 25 05:51:23 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

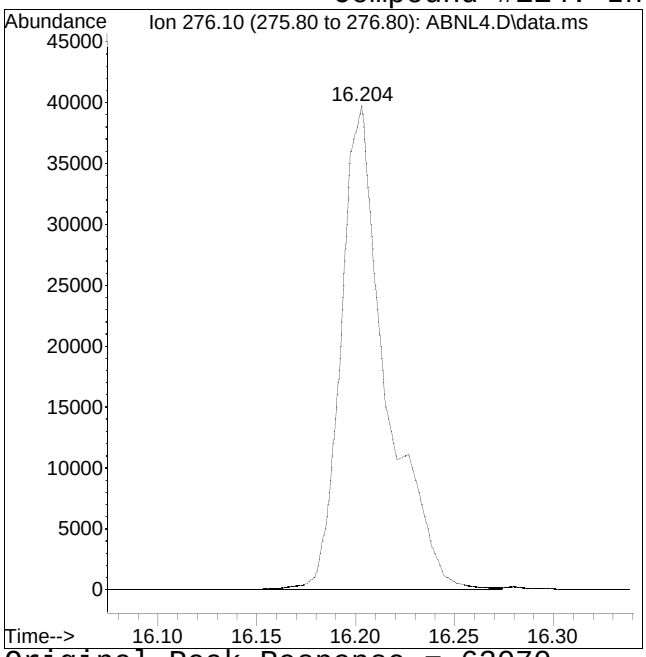
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



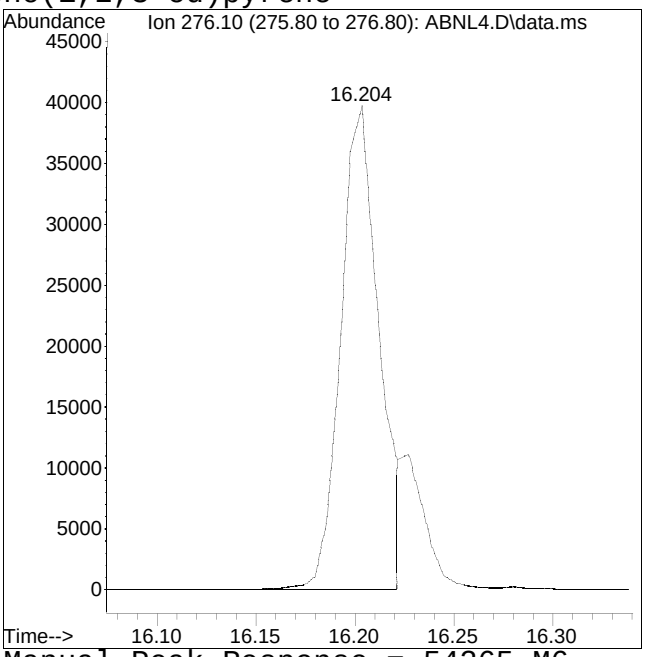
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL4.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 6:54 pm Instrument : SV 106
Sample : IL7,32,,ABNL1 Lot# 10783 Quant Date : 6/25/2024 5:34 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 63070



Manual Peak Response = 54265 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL3.D
Acq On : 24 Jun 2024 7:18 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939040
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 06:02:16 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.463	152	32391	4.000	ug/ml	0.00
Standard Area 1 = 34411			Recovery = 94.13%			
35) IS1_Naphthalene-d8	7.886	136	113586	4.000	ug/ml #	0.00
Standard Area 1 = 121176			Recovery = 93.74%			
63) IS1_Acenaphthene-d10	9.651	164	72453	4.000	ug/ml	0.00
Standard Area 1 = 79426			Recovery = 91.22%			
88) IS1_Phenanthrene-d10	11.092	188	159947	4.000	ug/ml	0.00
Standard Area 1 = 176143			Recovery = 90.81%			
104) IS1_Chrysene-d12	13.739	240	165980	4.000	ug/ml #	0.00
Standard Area 1 = 174707			Recovery = 95.00%			
113) IS1_Perylene-d12	15.215	264	186363	4.000	ug/ml	0.00
Standard Area 1 = 195526			Recovery = 95.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.575	112	4629	0.505	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 25.25%			
7) Phenol-d6	6.092	99	6559	0.554	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.70%			
19) Nitrobenzene-d5	7.116	82	7068	0.558	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 55.80%			
46) 2-Fluorobiphenyl	9.010	172	15156	0.575	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 57.50%			
79) 2,4,6-Tribromophenol	10.422	330	2101	0.545	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 27.25%			
96) 4-Terphenyl-d14	12.680	244	21790	0.633	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 63.30%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.157	74	3457	0.541	ug/ml#	69
3) Pyridine	2.210	79	5488	0.574	ug/ml#	74
5) Aniline	6.051	93	8064	0.527	ug/ml	98
6) 2-Chlorophenol	6.198	128	5633	0.566	ug/ml	95
8) Phenol	6.104	94	6512	0.517	ug/ml#	87
9) Bis(2-chloroethyl)ether	6.187	93	5827	0.585	ug/ml#	79
10) 1,3-Dichlorobenzene	6.387	146	6223	0.540	ug/ml	96
11) 1,4-Dichlorobenzene	6.481	146	6794	0.564	ug/ml	92
12) 1,2-Dichlorobenzene	6.663	146	6532	0.595	ug/ml	98
13) Benzyl alcohol	6.669	79	5006	0.520	ug/ml	95
14) Bis(2-chloroisopropyl)...	6.845	45	9139	0.621	ug/ml#	58

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL3.D
Acq On : 24 Jun 2024 7:18 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939040
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 06:02:16 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.839	108	5000	0.557	ug/ml	98
16) Hexachloroethane	7.051	117	2693	0.549	ug/ml#	51
17) n-Nitrosodi-n-propylamine	6.992	70	4078	0.487	ug/ml#	85
18) 3-Methylphenol/4-Methy...	7.028	108	5313	0.545	ug/ml	94
20) Nitrobenzene	7.139	77	6525	0.535	ug/ml#	88
21) Isophorone	7.422	82	10954	0.507	ug/ml	94
22) 2-Nitrophenol	7.498	139	2652	0.526	ug/ml#	91
23) 2,4-Dimethylphenol	7.598	107	4966	0.486	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.686	93	7556	0.557	ug/ml#	96
25) 2,4-Dichlorophenol	7.763	162	4778	0.513	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.839	180	6565	0.578	ug/ml	96
36) Naphthalene	7.910	128	17639	0.583	ug/ml	98
37) Benzoic Acid	7.651	105	1855	0.465	ug/ml#	86
38) 4-Chloroaniline	7.992	65	2373	0.523	ug/ml	92
39) Hexachlorobutadiene	8.081	225	4619	0.591	ug/ml	95
40) p-Chloro-m-cresol	8.516	107	4568	0.492	ug/ml	97
41) 2-Methylnaphthalene	8.628	142	10991	0.545	ug/ml#	92
42) 1-Methylnaphthalene	8.722	115	4410	0.523	ug/ml	74
43) Hexachlorocyclopentadiene	8.810	237	4441	0.573	ug/ml#	90
44) 2,4,6-Trichlorophenol	8.928	196	4214	0.559	ug/ml	94
45) 2,4,5-Trichlorophenol	8.957	196	4787	0.583	ug/ml	96
47) 2-Chloronaphthalene	9.104	162	11776	0.558	ug/ml	99
48) 2-Nitroaniline	9.222	138	3369	0.551	ug/ml	93
49) 1,4-Dinitrobenzene	9.351	168	1818	0.562	ug/ml	91
50) 1,3-Dinitrobenzene	9.428	168	1997	0.540	ug/ml#	1
51) Dimethyl phthalate	9.428	163	14729	0.528	ug/ml	99
52) Acenaphthylene	9.510	152	18626	0.568	ug/ml	98
53) 2,6-Dinitrotoluene	9.469	165	2872	0.513	ug/ml	91
54) 1,2-Dinitrobenzene	9.510	168	1334	0.606	ug/ml#	1
64) 3-Nitroaniline	9.622	138	2948	0.556	ug/ml#	80
65) Acenaphthene	9.686	154	10908	0.608	ug/ml	92
66) 2,4-Dinitrophenol	9.727	184	1578	0.777	ug/ml#	78
67) Dibenzofuran	9.857	168	17986	0.573	ug/ml	97
68) 2,4-Dinitrotoluene	9.857	165	4169	0.578	ug/ml	95
69) 4-Nitrophenol	9.810	65	2994	0.526	ug/ml	87
70) 2,3,5,6-Tetrachlorophenol	9.945	232	4162	0.652	ug/ml	94
71) 2,3,4,6-Tetrachlorophenol	9.986	232	4066	0.648	ug/ml	98
72) Diethyl phthalate	10.122	149	14511	0.555	ug/ml	98
73) Fluorene	10.186	166	14234	0.577	ug/ml	98
74) 4-Chlorophenyl phenyl ...	10.210	204	8032	0.619	ug/ml#	84

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL3.D
Acq On : 24 Jun 2024 7:18 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939040
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 06:02:16 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
75)	4-Nitroaniline	10.210	138	3375	0.650	ug/ml	#	88
76)	4,6-Dinitro-o-cresol	10.251	198	2290	0.563	ug/ml	#	60
77)	NDPA/DPA	10.322	169	11420	0.562	ug/ml	#	93
78)	Azobenzene	10.357	77	13064	0.504	ug/ml		95
80)	4-Bromophenyl phenyl e...	10.680	248	4283	0.554	ug/ml	#	85
81)	Hexachlorobenzene	10.733	284	5638	0.630	ug/ml	#	82
82)	Pentachlorophenol	10.927	266	2716	0.520	ug/ml		96
89)	Phenanthrene	11.116	178	22912	0.580	ug/ml		98
90)	Anthracene	11.163	178	23000	0.589	ug/ml		97
91)	Carbazole	11.333	167	20524	0.574	ug/ml		100
92)	Di-n-butylphthalate	11.721	149	23542	0.540	ug/ml		99
93)	Fluoranthene	12.274	202	27289	0.604	ug/ml	#	92
94)	Benzidine	12.427	184	15029	0.580	ug/ml	#	96
95)	Pyrene	12.492	202	29403	0.616	ug/ml		99
97)	Butyl benzyl phthalate	13.210	149	10165	0.549	ug/ml	#	98
105)	Benzo(a)anthracene	13.733	228	31479	0.586	ug/ml		100
106)	3,3'-Dichlorobenzidine	13.733	252	9210	0.498	ug/ml		98
107)	Chrysene	13.768	228	30717	0.580	ug/ml		99
108)	Bis(2-ethylhexyl)phtha...	13.851	149	15961	0.501	ug/ml	#	93
109)	Di-n-octylphthalate	14.533	149	26660	0.511	ug/ml	#	75
110)	Benzo(b)fluoranthene	14.839	252	31884	0.650	ug/ml	#	93
111)	Benzo(k)fluoranthene	14.868	252	28603	0.597	ug/ml	#	90
112)	Benzo(a)pyrene	15.157	252	26611	0.606	ug/ml	#	93
114)	Indeno(1,2,3-cd)pyrene	16.204	276	26167M6	0.571	ug/mL		
115)	Dibenzo(a,h)anthracene	16.227	278	24873	0.571	ug/ml	#	88
116)	Benzo(ghi)perylene	16.456	276	24280M1	0.565	ug/ml		

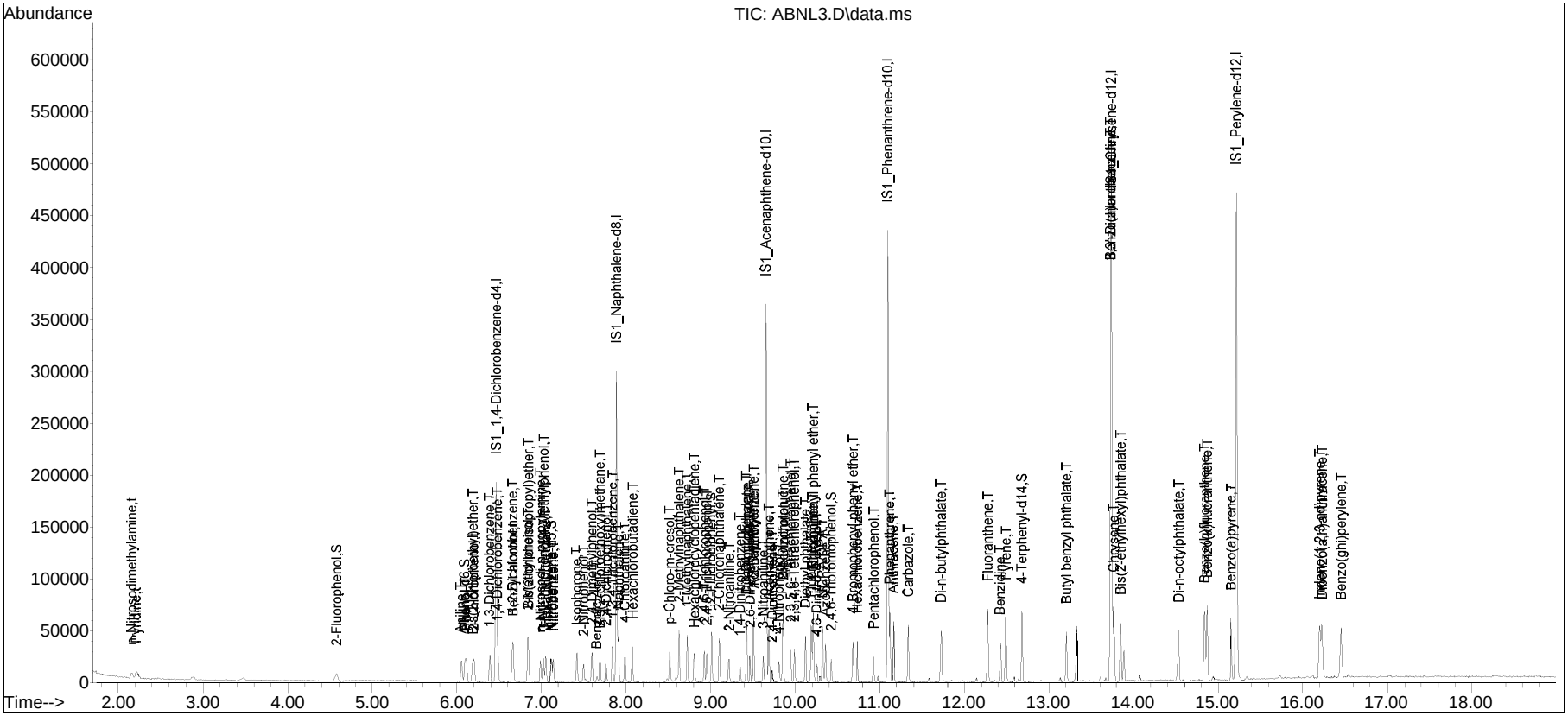
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL3.D
Acq On : 24 Jun 2024 7:18 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL0.5 Lot# 10784
Misc : WG1939040
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 25 06:02:16 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

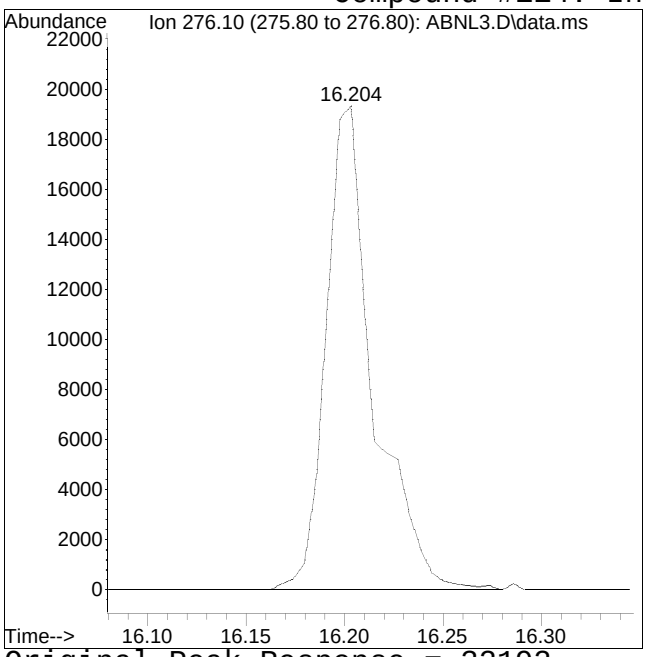
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•



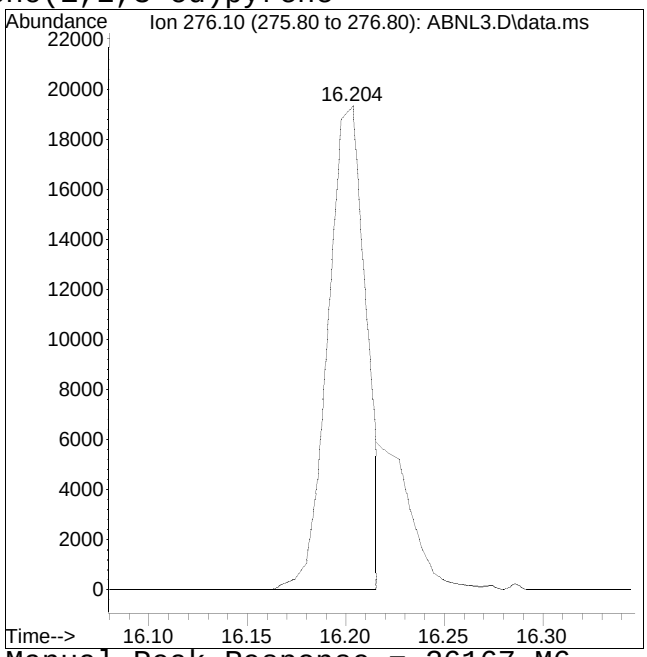
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL3.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 7:18 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/25/2024 5:33 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 32192



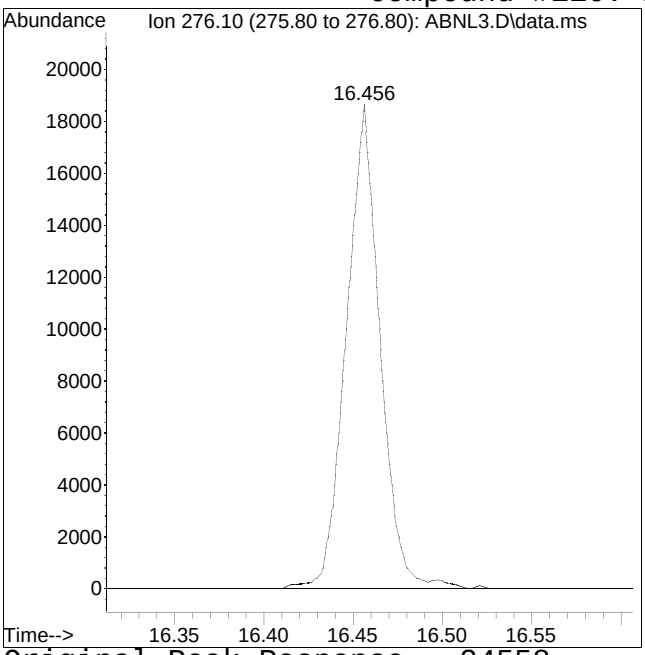
Manual Peak Response = 26167 M6

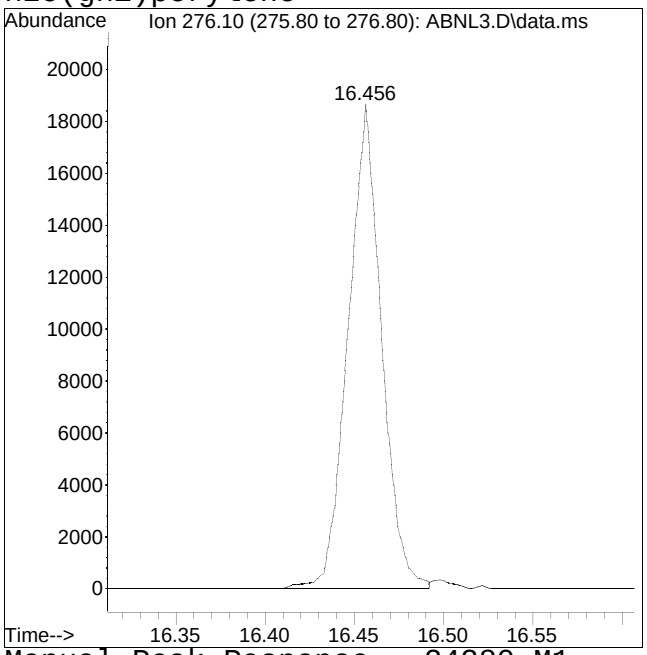
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL3.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 7:18 pm Instrument : SV 106
Sample : IL8,32,,ABNL0.5 Lot# 10784Quant Date : 6/25/2024 5:33 am

Compound #116: Benzo(ghi)perylene





Original Peak Response = 24558 Manual Peak Response = 24280 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL2.D
Acq On : 24 Jun 2024 7:42 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939040
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 25 05:49:27 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.463	152	32157	4.000	ug/ml	0.00
Standard Area 1 = 34411			Recovery = 93.45%			
35) IS1_Naphthalene-d8	7.886	136	111078	4.000	ug/ml #	0.00
Standard Area 1 = 121176			Recovery = 91.67%			
63) IS1_Acenaphthene-d10	9.651	164	71285	4.000	ug/ml	0.00
Standard Area 1 = 79426			Recovery = 89.75%			
88) IS1_Phenanthrene-d10	11.092	188	160145	4.000	ug/ml	0.00
Standard Area 1 = 176143			Recovery = 90.92%			
104) IS1_Chrysene-d12	13.745	240	163949	4.000	ug/ml #	0.00
Standard Area 1 = 174707			Recovery = 93.84%			
113) IS1_Perylene-d12	15.215	264	181432	4.000	ug/ml	0.00
Standard Area 1 = 195526			Recovery = 92.79%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.581	112	2228	0.245	ug/ml	0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 12.25%#			
7) Phenol-d6	6.092	99	2724	0.232	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 11.60%#			
19) Nitrobenzene-d5	7.116	82	2797	0.222	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 22.20%#			
46) 2-Fluorobiphenyl	9.010	172	6598	0.256	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 25.60%#			
79) 2,4,6-Tribromophenol	10.422	330	956	0.252	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 12.60%#			
96) 4-Terphenyl-d14	12.680	244	10033	0.291	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 29.10%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.163	74	1537	0.242	ug/ml#	80
3) Pyridine	2.222	79	2501	0.263	ug/ml#	60
5) Aniline	6.057	93	3642	0.240	ug/ml	97
6) 2-Chlorophenol	6.198	128	2335	0.236	ug/ml	99
8) Phenol	6.110	94	2795	0.223	ug/ml#	88
9) Bis(2-chloroethyl)ether	6.186	93	2430	0.246	ug/ml#	76
10) 1,3-Dichlorobenzene	6.386	146	2991	0.261	ug/ml	97
11) 1,4-Dichlorobenzene	6.481	146	2633M3	0.220	ug/ml	
12) 1,2-Dichlorobenzene	6.663	146	2723	0.250	ug/ml	92
13) Benzyl alcohol	6.669	79	2304	0.241	ug/ml#	89
14) Bis(2-chloroisopropyl)...	6.845	45	4104	0.281	ug/ml#	57

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL2.D
Acq On : 24 Jun 2024 7:42 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939040
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 25 05:49:27 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.839	108	2042	0.229	ug/ml#	96
16) Hexachloroethane	7.051	117	1192	0.245	ug/ml#	48
17) n-Nitrosodi-n-propylamine	6.998	70	1776	0.214	ug/ml#	59
18) 3-Methylphenol/4-Methy...	7.028	108	2355	0.243	ug/ml#	91
20) Nitrobenzene	7.139	77	2854	0.236	ug/ml#	86
21) Isophorone	7.422	82	4478	0.209	ug/ml#	91
22) 2-Nitrophenol	7.498	139	1296	0.259	ug/ml#	88
23) 2,4-Dimethylphenol	7.598	107	2165	0.214	ug/ml	90
24) Bis(2-chloroethoxy)met...	7.692	93	3272	0.243	ug/ml#	91
25) 2,4-Dichlorophenol	7.763	162	2108	0.228	ug/ml	93
26) 1,2,4-Trichlorobenzene	7.845	180	2635	0.234	ug/ml	89
36) Naphthalene	7.910	128	7948	0.268	ug/ml	97
37) Benzoic Acid	7.657	105	412M2	0.280	ug/ml	
38) 4-Chloroaniline	7.992	65	1156	0.260	ug/ml#	68
39) Hexachlorobutadiene	8.081	225	2177	0.285	ug/ml	90
40) p-Chloro-m-cresol	8.516	107	2038	0.225	ug/ml#	89
41) 2-Methylnaphthalene	8.628	142	4870M3	0.247	ug/ml	
42) 1-Methylnaphthalene	8.722	115	1817	0.220	ug/ml	89
43) Hexachlorocyclopentadiene	8.810	237	2090	0.276	ug/ml#	93
44) 2,4,6-Trichlorophenol	8.928	196	1818	0.246	ug/ml	84
45) 2,4,5-Trichlorophenol	8.957	196	1717	0.214	ug/ml	93
47) 2-Chloronaphthalene	9.104	162	5430	0.263	ug/ml	95
48) 2-Nitroaniline	9.222	138	1412	0.236	ug/ml	93
49) 1,4-Dinitrobenzene	9.357	168	811M3	0.256	ug/ml	
50) 1,3-Dinitrobenzene	9.427	168	730	0.202	ug/ml#	1
51) Dimethyl phthalate	9.427	163	6172	0.226	ug/ml#	93
52) Acenaphthylene	9.510	152	7648	0.238	ug/ml	98
53) 2,6-Dinitrotoluene	9.469	165	1183	0.216	ug/ml	90
54) 1,2-Dinitrobenzene	9.510	168	495M3	0.230	ug/ml	
64) 3-Nitroaniline	9.622	138	1204	0.231	ug/ml#	60
65) Acenaphthene	9.686	154	4683	0.265	ug/ml	85
66) 2,4-Dinitrophenol	9.733	184	426M2	0.457	ug/ml	
67) Dibenzofuran	9.857	168	8058	0.261	ug/ml	98
68) 2,4-Dinitrotoluene	9.857	165	1997	0.281	ug/ml	88
69) 4-Nitrophenol	9.816	65	1178	0.210	ug/ml	87
70) 2,3,5,6-Tetrachlorophenol	9.945	232	1518	0.242	ug/ml	90
71) 2,3,4,6-Tetrachlorophenol	9.986	232	1609	0.261	ug/ml	95
72) Diethyl phthalate	10.122	149	6507	0.253	ug/ml	99
73) Fluorene	10.186	166	6010	0.248	ug/ml	90
74) 4-Chlorophenyl phenyl ...	10.210	204	3442	0.269	ug/ml#	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL2.D
Acq On : 24 Jun 2024 7:42 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939040
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 25 05:49:27 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	10.210	138	1274	0.249	ug/ml	92
76)	4,6-Dinitro-o-cresol	10.251	198	755	0.189	ug/ml#	62
77)	NDPA/DPA	10.322	169	5230	0.262	ug/ml	97
78)	Azobenzene	10.357	77	5664	0.222	ug/ml	97
80)	4-Bromophenyl phenyl e...	10.680	248	2231	0.293	ug/ml#	78
81)	Hexachlorobenzene	10.733	284	2504	0.284	ug/ml#	84
82)	Pentachlorophenol	10.927	266	1228	0.239	ug/ml	88
89)	Phenanthrene	11.116	178	10935	0.277	ug/ml	98
90)	Anthracene	11.169	178	9713	0.248	ug/ml	97
91)	Carbazole	11.333	167	8819	0.246	ug/ml	96
92)	Di-n-butylphthalate	11.727	149	10453	0.240	ug/ml	99
93)	Fluoranthene	12.274	202	12420	0.274	ug/ml#	92
94)	Benzidine	12.427	184	5894	0.227	ug/ml#	83
95)	Pyrene	12.492	202	13308	0.278	ug/ml	99
97)	Butyl benzyl phthalate	13.210	149	4746	0.256	ug/ml	93
105)	Benzo(a)anthracene	13.733	228	13886	0.262	ug/ml	98
106)	3,3'-Dichlorobenzidine	13.733	252	4267	0.234	ug/ml	99
107)	Chrysene	13.768	228	14549	0.278	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.851	149	6894	0.219	ug/ml#	98
109)	Di-n-octylphthalate	14.533	149	11164	0.217	ug/ml#	76
110)	Benzo(b)fluoranthene	14.845	252	13701	0.283	ug/ml#	92
111)	Benzo(k)fluoranthene	14.868	252	13627	0.288	ug/ml#	91
112)	Benzo(a)pyrene	15.157	252	11806	0.272	ug/ml#	92
114)	Indeno(1,2,3-cd)pyrene	16.203	276	10846M1	0.243	ug/mL	
115)	Dibenzo(a,h)anthracene	16.227	278	10791	0.255	ug/ml#	90
116)	Benzo(ghi)perylene	16.456	276	10598	0.253	ug/ml#	85

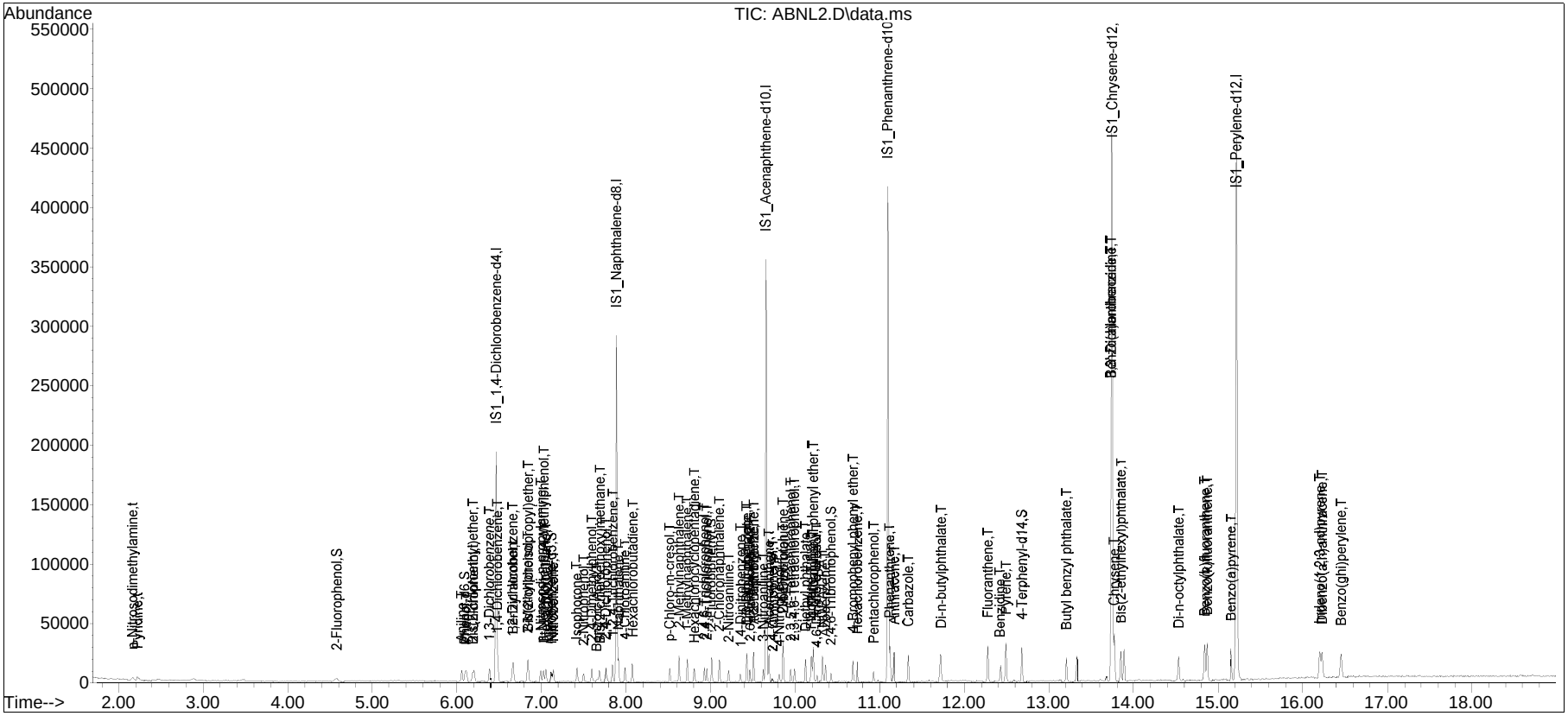
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL2.D
Acq On : 24 Jun 2024 7:42 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.2 Lot# 10785
Misc : WG1939040
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 25 05:49:27 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

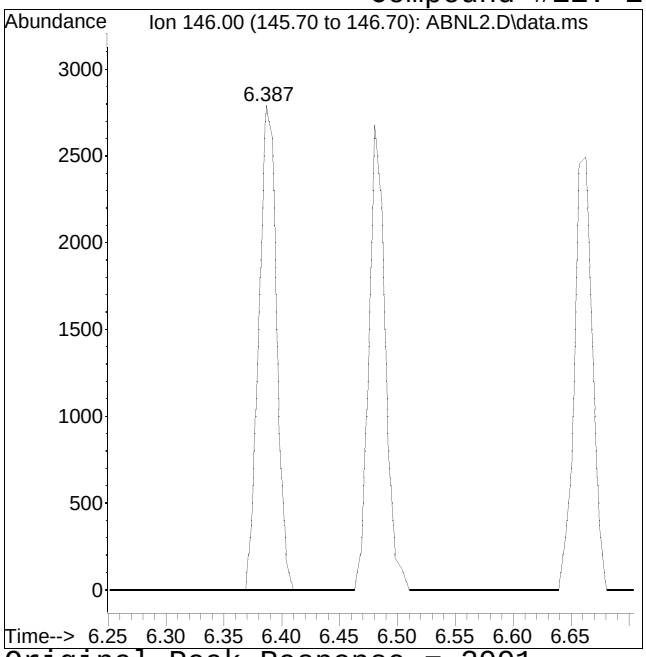
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

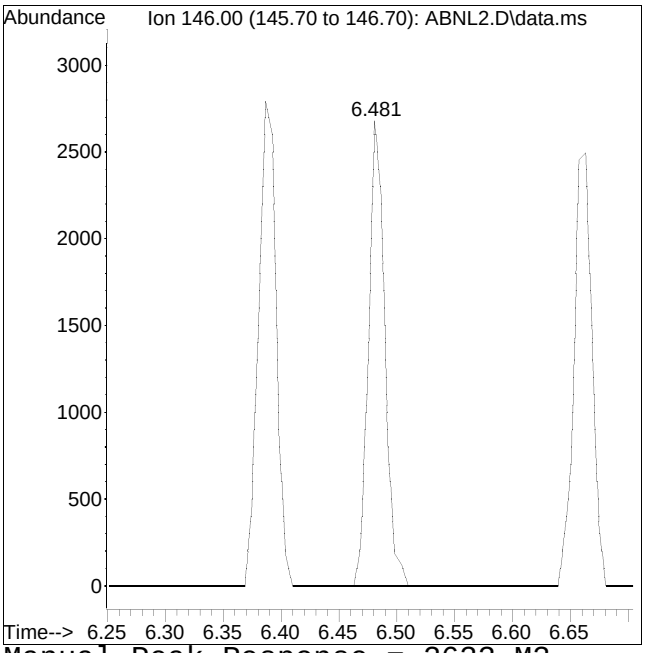


Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 7:42 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/25/2024 5:33 am

Compound #11: 1,4-Dichlorobenzene





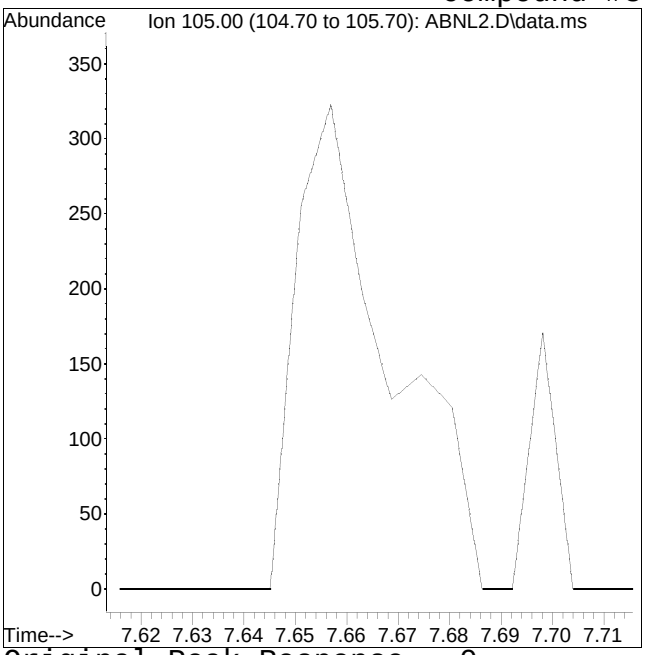
Original Peak Response = 2991 Manual Peak Response = 2633 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

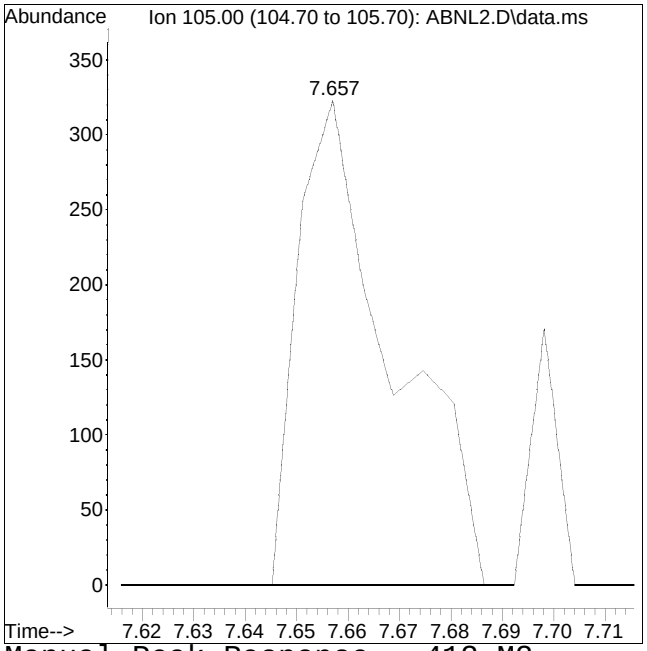
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 7:42 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/25/2024 5:33 am

Compound #37: Benzoic Acid



Original Peak Response = 0



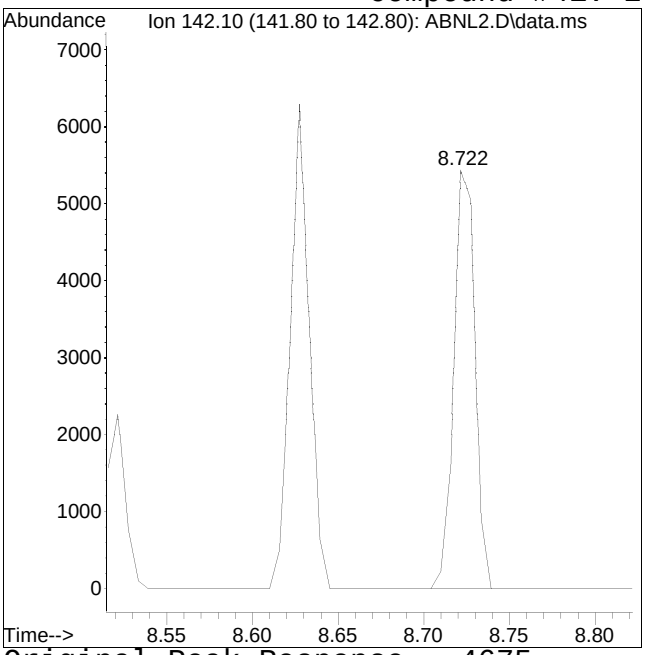
Manual Peak Response = 412 M2

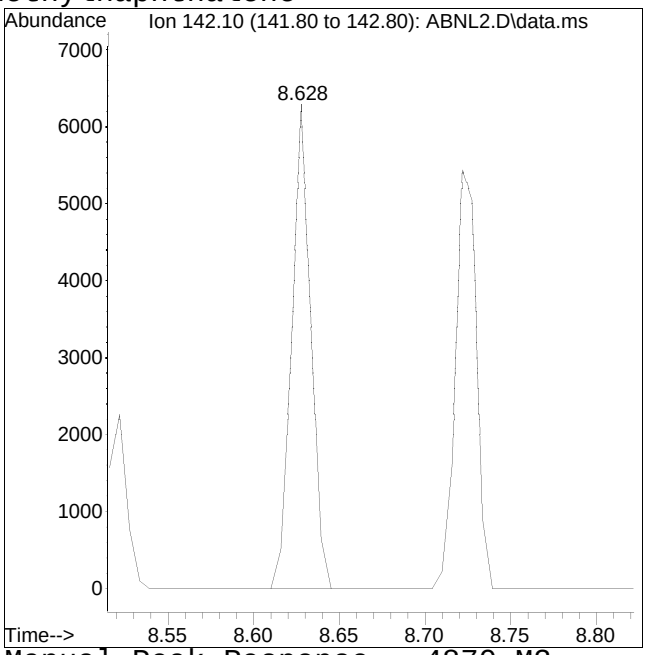
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 7:42 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/25/2024 5:33 am

Compound #41: 2-Methylnaphthalene





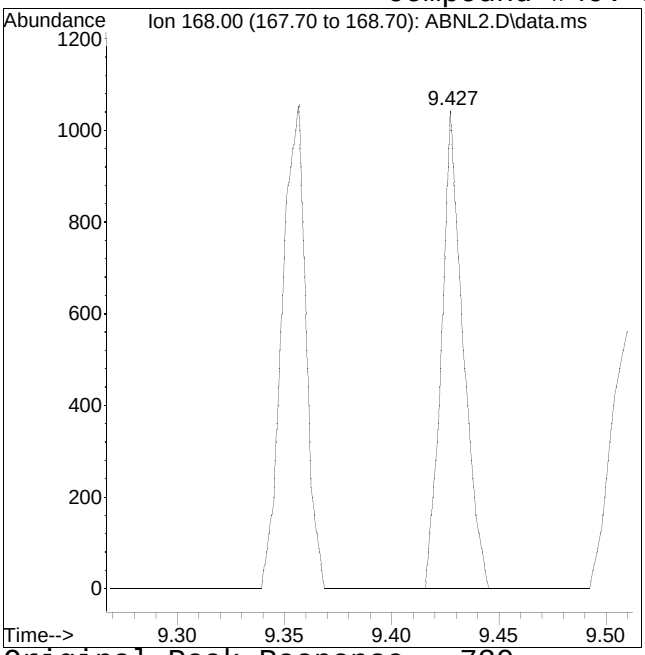
Original Peak Response = 4675 Manual Peak Response = 4870 M3

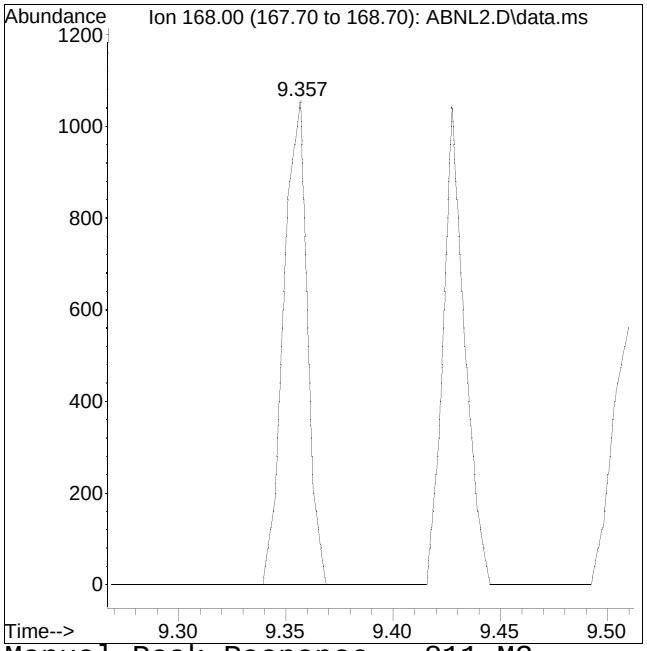
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 7:42 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/25/2024 5:33 am

Compound #49: 1,4-Dinitrobenzene



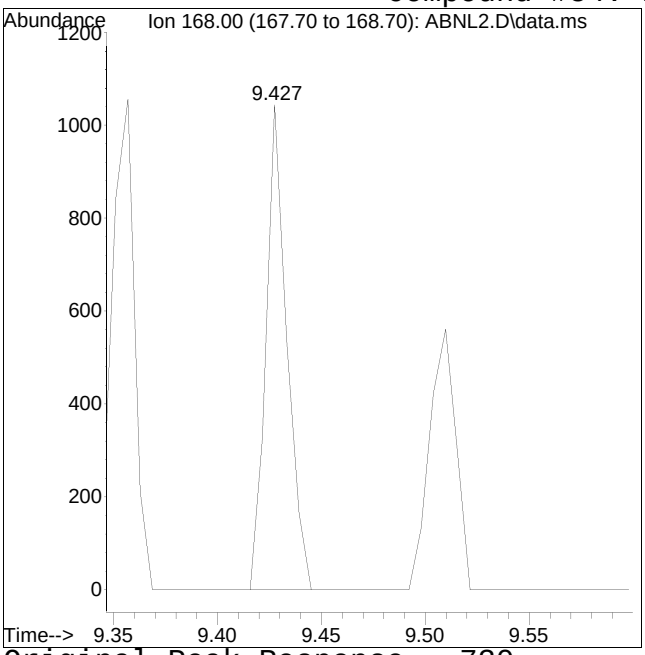


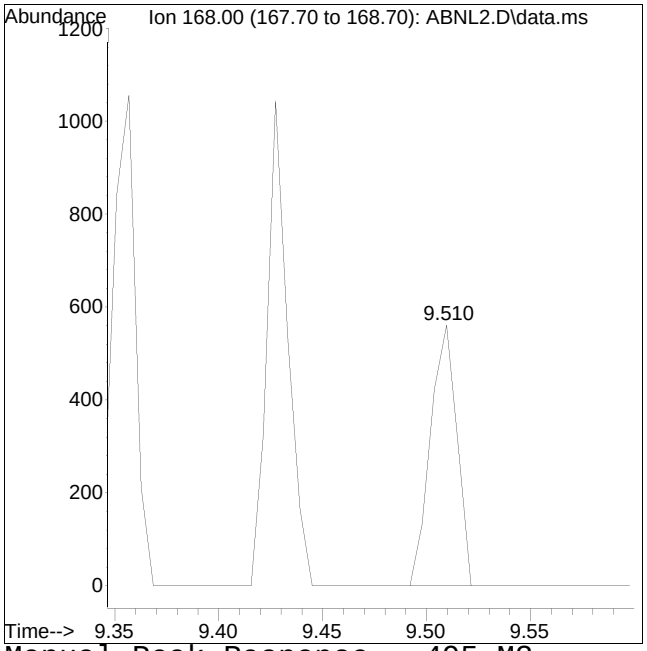
Original Peak Response = 730 Manual Peak Response = 811 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 7:42 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/25/2024 5:33 am

Compound #54: 1,2-Dinitrobenzene



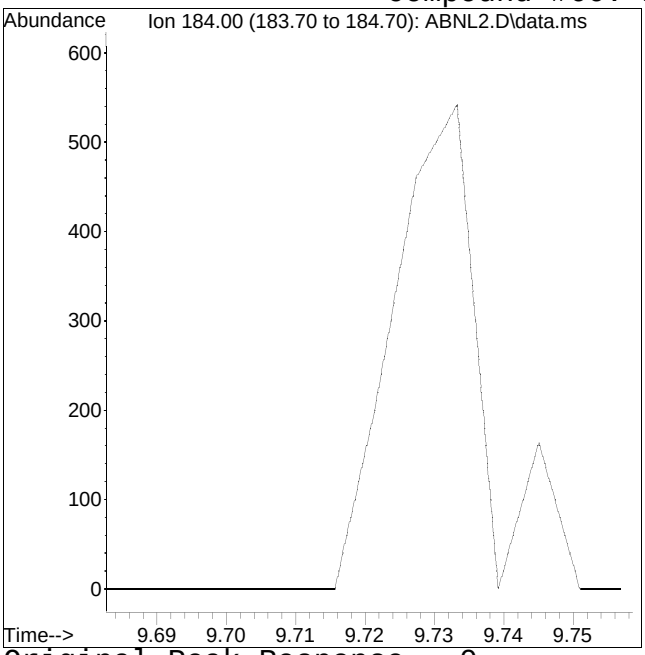


Original Peak Response = 730 Manual Peak Response = 495 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

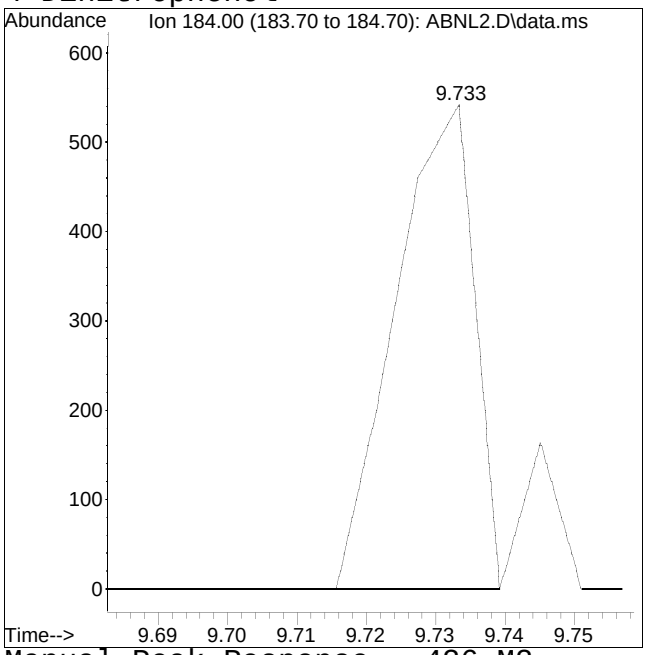
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 7:42 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/25/2024 5:33 am

Compound #66: 2,4-Dinitrophenol



Original Peak Response = 0



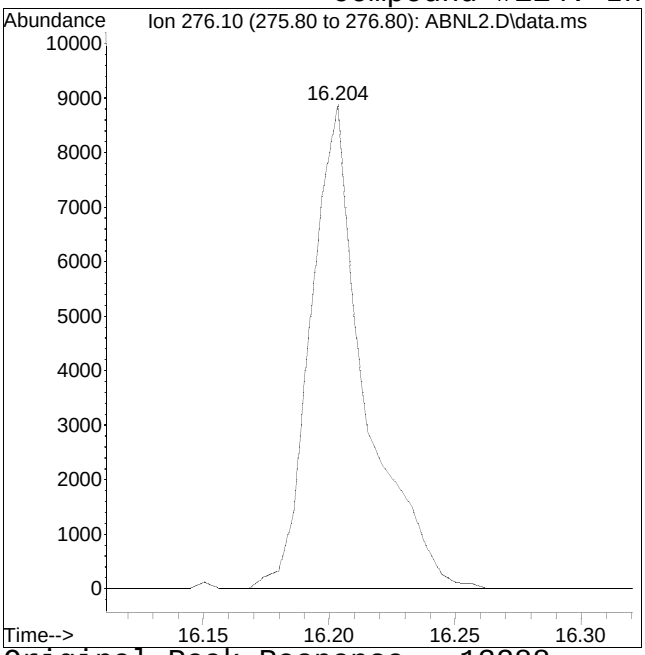
Manual Peak Response = 426 M2

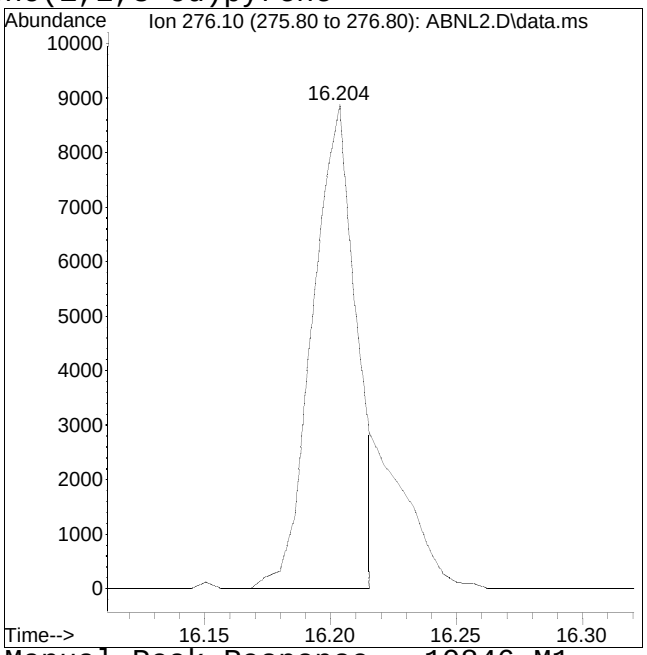
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 7:42 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.2 Lot# 10785Quant Date : 6/25/2024 5:33 am

Compound #114: Indeno(1,2,3-cd)pyrene





Original Peak Response = 13288 Manual Peak Response = 10846 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL1.D
Acq On : 24 Jun 2024 8:05 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939040
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 25 10:15:14 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.463	152	30958	4.000	ug/ml	0.00
Standard Area 1 = 34411			Recovery = 89.97%			
35) IS1_Naphthalene-d8	7.887	136	110543	4.000	ug/ml	# 0.00
Standard Area 1 = 121176			Recovery = 91.23%			
63) IS1_Acenaphthene-d10	9.651	164	68462	4.000	ug/ml	0.00
Standard Area 1 = 79426			Recovery = 86.20%			
88) IS1_Phenanthrene-d10	11.092	188	154950	4.000	ug/ml	0.00
Standard Area 1 = 176143			Recovery = 87.97%			
104) IS1_Chrysene-d12	13.745	240	160753	4.000	ug/ml	# 0.00
Standard Area 1 = 174707			Recovery = 92.01%			
113) IS1_Perylene-d12	15.215	264	178931	4.000	ug/ml	0.00
Standard Area 1 = 195526			Recovery = 91.51%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.569	112	843	0.094	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.70%#			
7) Phenol-d6	6.093	99	1503	0.123	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 6.15%#			
19) Nitrobenzene-d5	7.116	82	1438	0.115	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 11.50%#			
46) 2-Fluorobiphenyl	9.010	172	3422	0.121	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 12.10%#			
79) 2,4,6-Tribromophenol	10.422	330	399M2	0.094	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 4.70%#			
96) 4-Terphenyl-d14	12.686	244	4923	0.118	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 11.80%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.163	74	726	0.110	ug/ml#	79
3) Pyridine	2.246	79	1181	0.110	ug/ml#	57
5) Aniline	6.057	93	1891	0.119	ug/ml#	84
6) 2-Chlorophenol	6.204	128	1073	0.108	ug/ml#	71
8) Phenol	6.110	94	1502	0.118	ug/ml#	92
9) Bis(2-chloroethyl)ether	6.187	93	1185	0.114	ug/ml#	61
10) 1,3-Dichlorobenzene	6.387	146	1370	0.114	ug/ml	98
11) 1,4-Dichlorobenzene	6.481	146	1459	0.120	ug/ml	95
12) 1,2-Dichlorobenzene	6.663	146	1448M3	0.123	ug/ml	
13) Benzyl alcohol	6.669	79	1061	0.108	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL1.D
Acq On : 24 Jun 2024 8:05 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939040
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 25 10:15:14 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
14) Bis(2-chloroisopropyl)...	6.845	45	2053	0.122	ug/ml	#	55
15) 2-Methylphenol	6.840	108	1006	0.110	ug/ml	#	78
16) Hexachloroethane	7.051	117	575	0.119	ug/ml	#	52
17) n-Nitrosodi-n-propylamine	6.992	70	845	0.103	ug/ml	#	59
18) 3-Methylphenol/4-Methy...	7.028	108	1055	0.107	ug/ml	#	90
20) Nitrobenzene	7.140	77	1549	0.122	ug/ml	#	88
21) Isophorone	7.422	82	2344	0.110	ug/ml	#	65
22) 2-Nitrophenol	7.498	139	527	0.098	ug/ml	#	31
23) 2,4-Dimethylphenol	7.592	107	1265	0.126	ug/ml	#	63
24) Bis(2-chloroethoxy)met...	7.692	93	1666	0.121	ug/ml	#	50
25) 2,4-Dichlorophenol	7.763	162	1068	0.112	ug/ml	#	67
26) 1,2,4-Trichlorobenzene	7.845	180	1514	0.130	ug/ml	#	69
36) Naphthalene	7.910	128	3600	0.114	ug/ml	#	88
37) Benzoic Acid	0.000		0	N.D.			
38) 4-Chloroaniline	7.992	65	478M2	0.102	ug/ml		
39) Hexachlorobutadiene	8.075	225	1064	0.127	ug/ml		96
40) p-Chloro-m-cresol	8.522	107	1033	0.109	ug/ml	#	78
41) 2-Methylnaphthalene	8.628	142	2466M3	0.117	ug/ml		
42) 1-Methylnaphthalene	8.722	115	827	0.103	ug/ml		93
43) Hexachlorocyclopentadiene	8.804	237	1046	0.113	ug/ml	#	86
44) 2,4,6-Trichlorophenol	8.928	196	852	0.103	ug/ml	#	81
45) 2,4,5-Trichlorophenol	8.957	196	963	0.108	ug/ml	#	76
47) 2-Chloronaphthalene	9.110	162	2572	0.115	ug/ml		96
48) 2-Nitroaniline	9.222	138	742	0.110	ug/ml		97
49) 1,4-Dinitrobenzene	9.351	168	282M2	0.079	ug/ml		
50) 1,3-Dinitrobenzene	9.428	168	467M2	0.115	ug/ml		
51) Dimethyl phthalate	9.422	163	3122	0.114	ug/ml	#	77
52) Acenaphthylene	9.510	152	3583	0.104	ug/ml	#	86
53) 2,6-Dinitrotoluene	9.469	165	653	0.111	ug/ml	#	53
54) 1,2-Dinitrobenzene	9.504	168	264M2	0.105	ug/ml		
64) 3-Nitroaniline	9.622	138	425M2	0.078	ug/ml		
65) Acenaphthene	9.681	154	2333	0.118	ug/ml	#	84
66) 2,4-Dinitrophenol	0.000		0	N.D.	d		
67) Dibenzofuran	9.857	168	4069	0.123	ug/ml		96
68) 2,4-Dinitrotoluene	9.857	165	866	0.107	ug/ml	#	85
69) 4-Nitrophenol	9.810	65	483M3	0.087	ug/ml		
70) 2,3,5,6-Tetrachlorophenol	9.945	232	754	0.097	ug/ml	#	73
71) 2,3,4,6-Tetrachlorophenol	9.992	232	659	0.089	ug/ml	#	70
72) Diethyl phthalate	10.122	149	2922	0.112	ug/ml	#	87
73) Fluorene	10.186	166	3131	0.120	ug/ml	#	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL1.D
Acq On : 24 Jun 2024 8:05 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939040
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 25 10:15:14 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Chlorophenyl phenyl ...	10.210	204	1574	0.115	ug/ml#	84
75)	4-Nitroaniline	10.210	138	516	0.091	ug/ml#	69
76)	4,6-Dinitro-o-cresol	10.251	198	308M2	0.068	ug/ml	
77)	NDPA/DPA	10.328	169	2316	0.107	ug/ml	95
78)	Azobenzene	10.357	77	2715	0.110	ug/ml	96
80)	4-Bromophenyl phenyl e...	10.680	248	976	0.114	ug/ml#	82
81)	Hexachlorobenzene	10.733	284	1047	0.108	ug/ml#	33
82)	Pentachlorophenol	10.928	266	592	0.096	ug/ml#	19
89)	Phenanthrene	11.116	178	5154	0.119	ug/ml	97
90)	Anthracene	11.163	178	5216M3	0.121	ug/ml	
91)	Carbazole	11.333	167	4735	0.120	ug/ml	95
92)	Di-n-butylphthalate	11.727	149	5025	0.109	ug/ml#	79
93)	Fluoranthene	12.274	202	6479	0.122	ug/ml#	88
94)	Benzidine	12.427	184	2415	0.084	ug/ml#	68
95)	Pyrene	12.492	202	6669	0.120	ug/ml	97
97)	Butyl benzyl phthalate	13.210	149	2481	0.116	ug/ml#	85
105)	Benzo(a)anthracene	13.733	228	7580	0.128	ug/ml	94
106)	3,3'-Dichlorobenzidine	13.733	252	1896	0.096	ug/ml#	89
107)	Chrysene	13.769	228	7446	0.130	ug/ml	96
108)	Bis(2-ethylhexyl)phtha...	13.851	149	3583	0.109	ug/ml#	94
109)	Di-n-octylphthalate	14.533	149	5836	0.107	ug/ml#	77
110)	Benzo(b)fluoranthene	14.845	252	6815	0.119	ug/ml#	92
111)	Benzo(k)fluoranthene	14.868	252	6756	0.124	ug/ml#	88
112)	Benzo(a)pyrene	15.163	252	5634	0.113	ug/ml#	93
114)	Indeno(1,2,3-cd)pyrene	16.204	276	5854M6	0.121	ug/mL	
115)	Dibenzo(a,h)anthracene	16.227	278	5532	0.119	ug/ml#	89
116)	Benzo(ghi)perylene	16.457	276	5478M6	0.127	ug/ml	

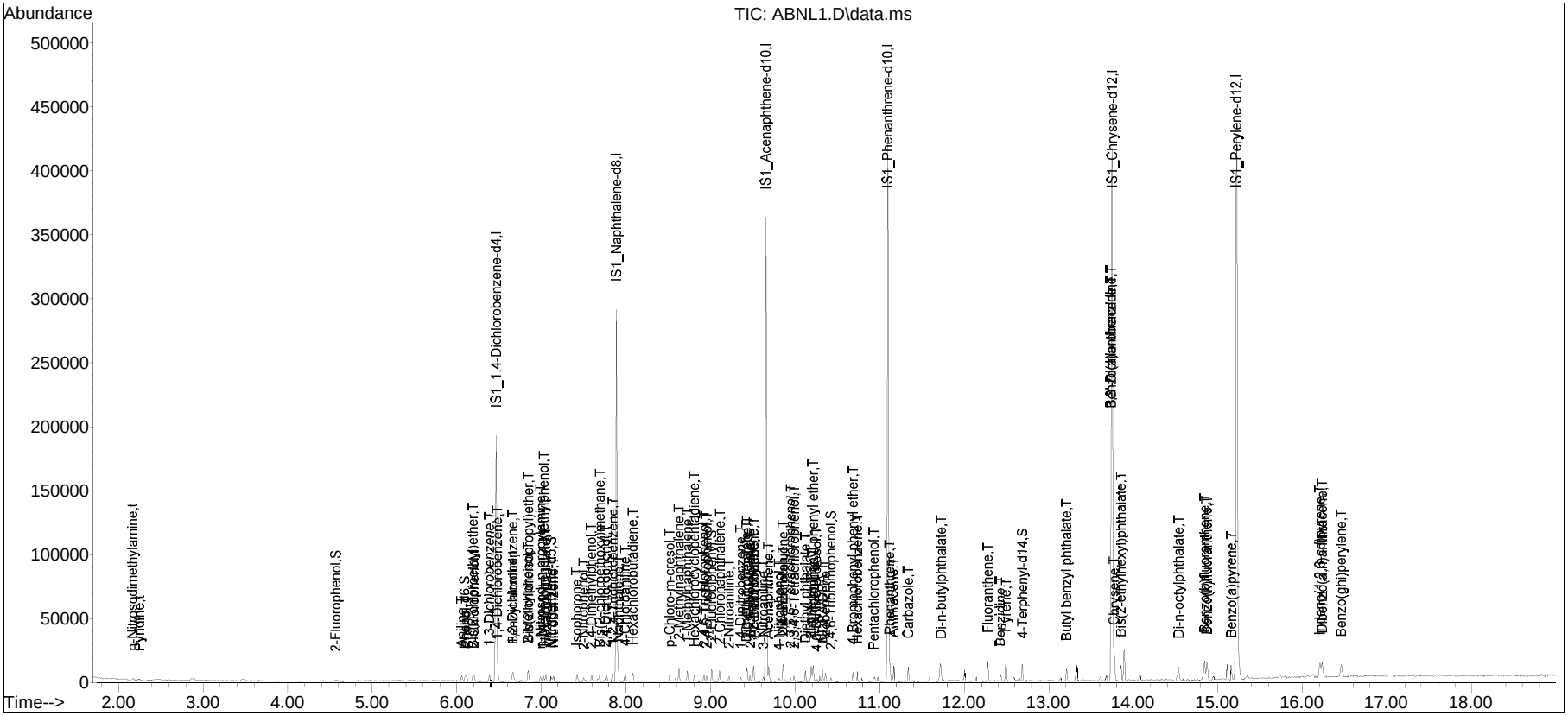
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNL1.D
Acq On : 24 Jun 2024 8:05 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.1 Lot# 10786
Misc : WG1939040
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 25 10:15:14 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

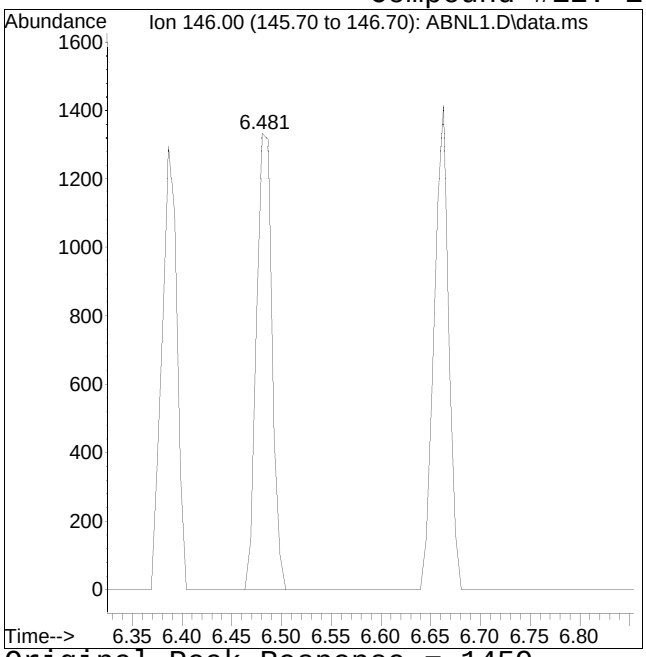
Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

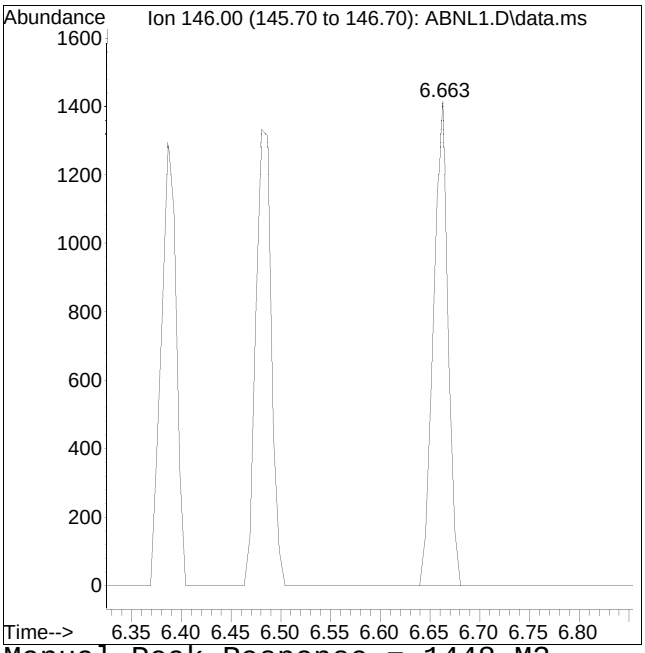


Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #12: 1,2-Dichlorobenzene





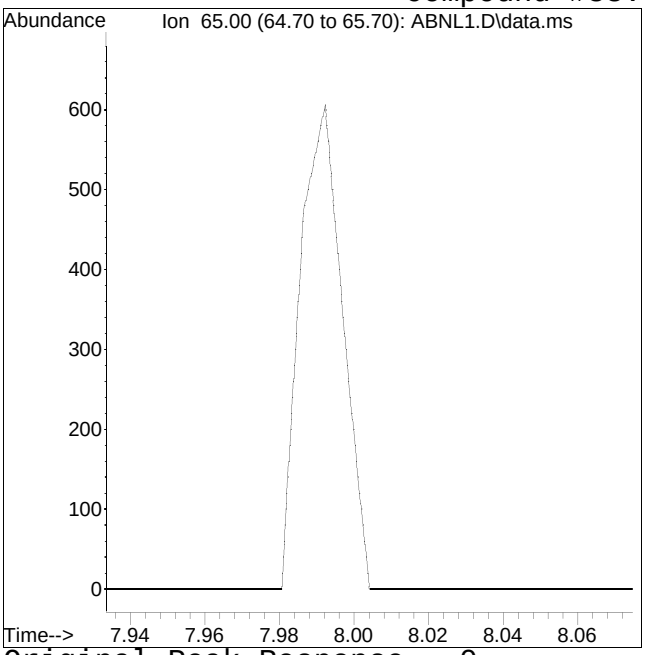
Original Peak Response = 1459 Manual Peak Response = 1448 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

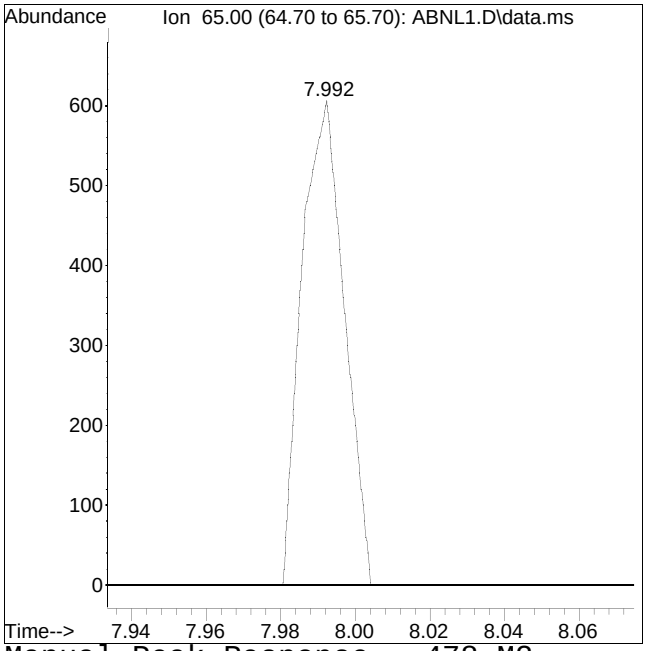
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #38: 4-Chloroaniline



Original Peak Response = 0



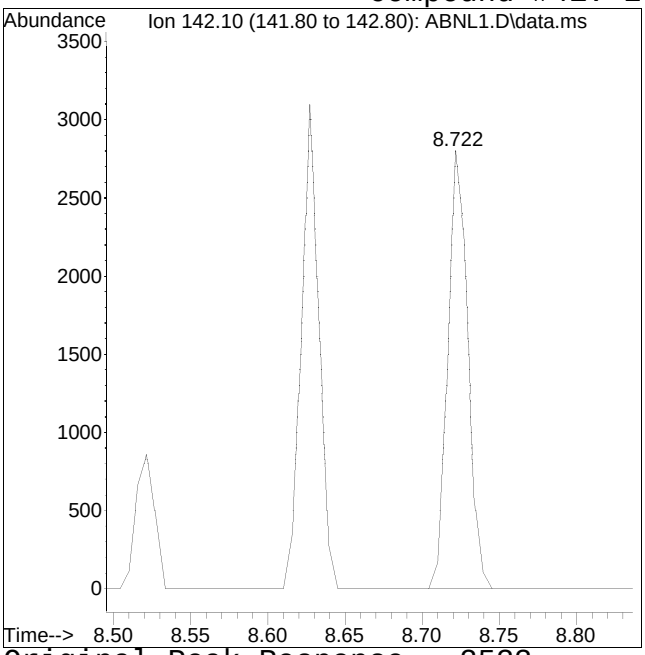
Manual Peak Response = 478 M2

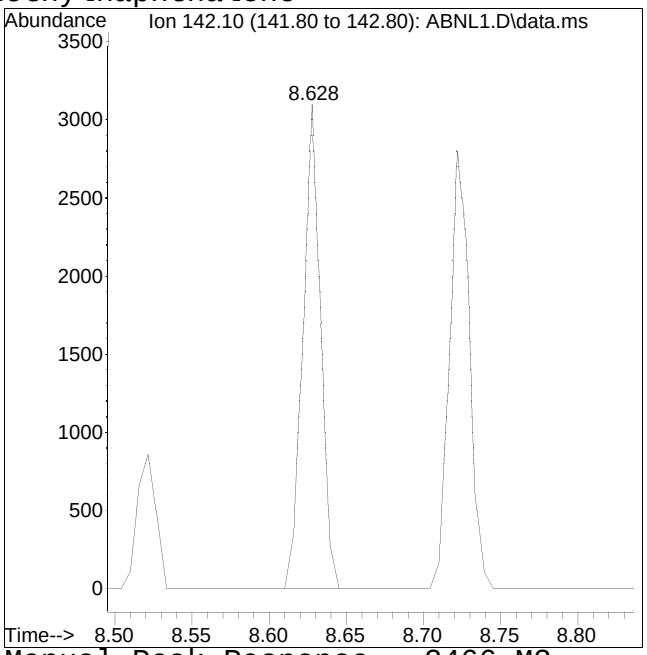
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #41: 2-Methylnaphthalene





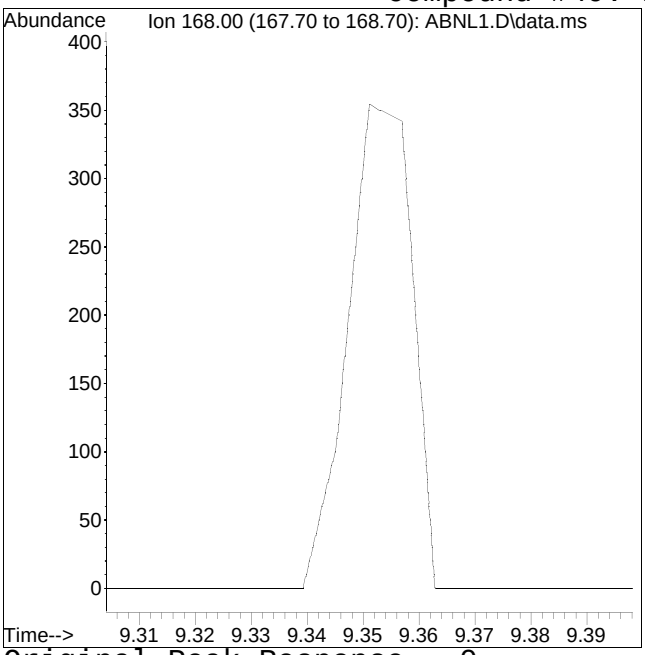
Original Peak Response = 2533 Manual Peak Response = 2466 M3

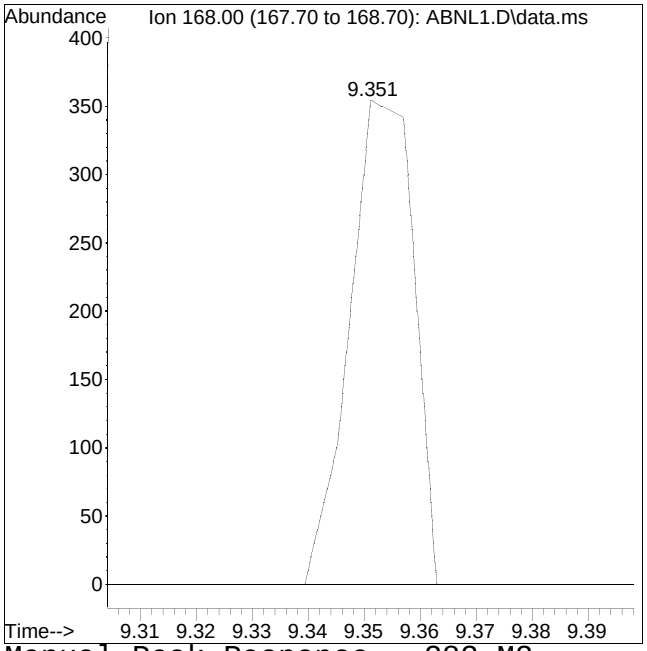
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #49: 1,4-Dinitrobenzene



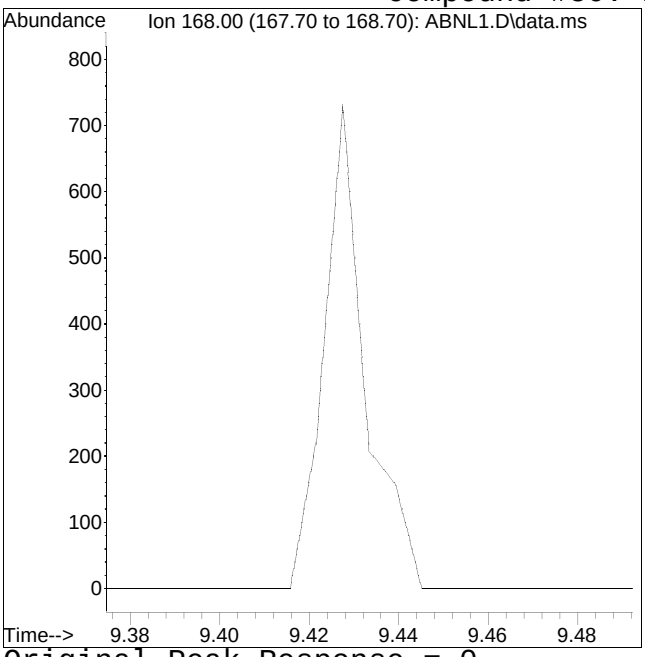


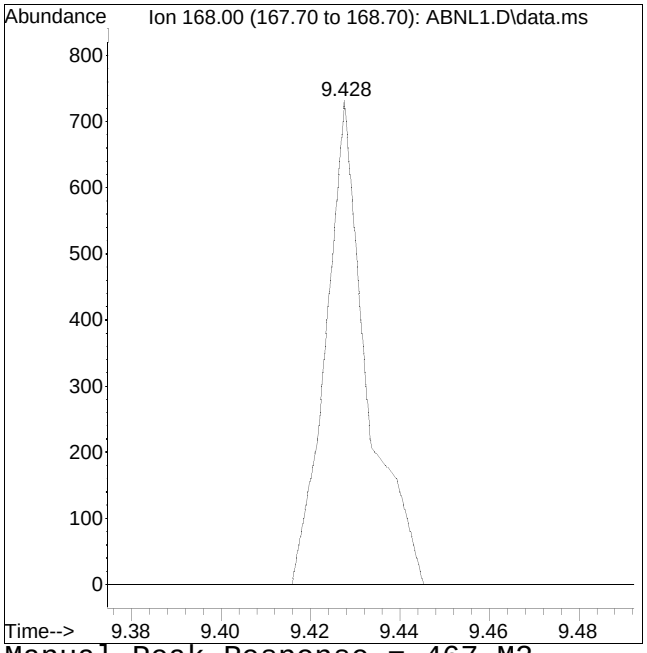
Original Peak Response = 0 Manual Peak Response = 282 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #50: 1,3-Dinitrobenzene



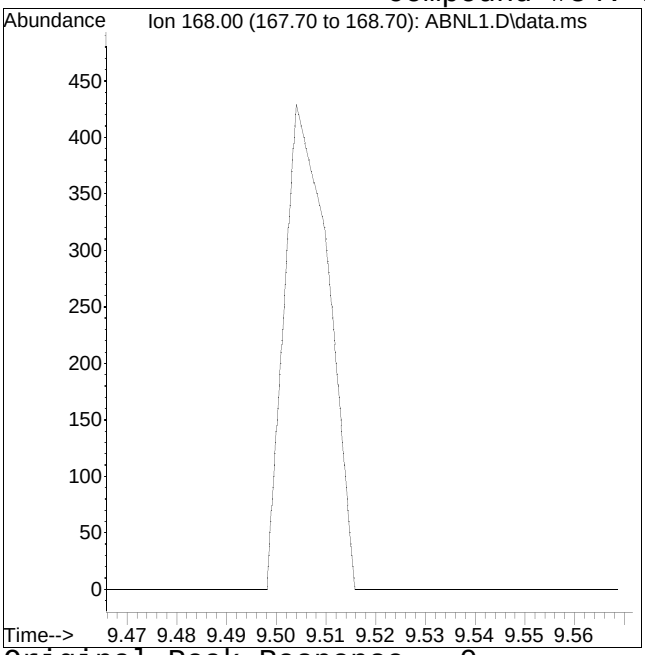


Original Peak Response = 0 Manual Peak Response = 467 M2
M2 = Peak not found by automatic integration algorithm.

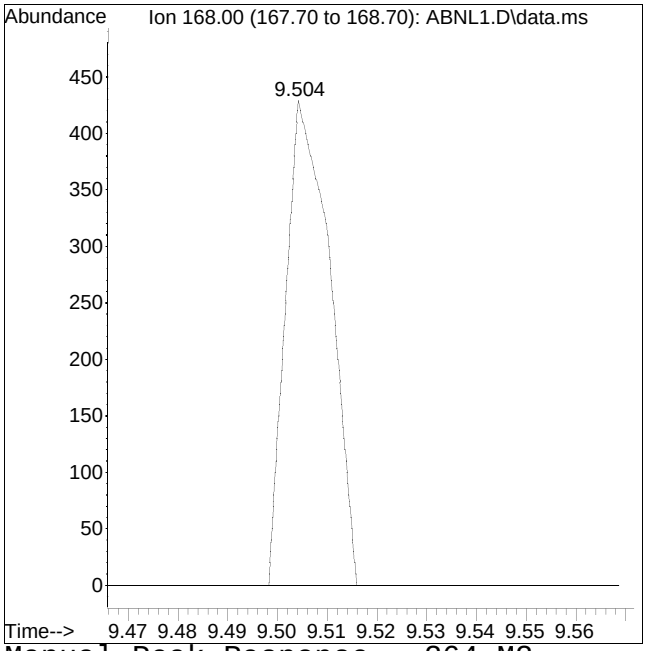
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #54: 1,2-Dinitrobenzene



Original Peak Response = 0



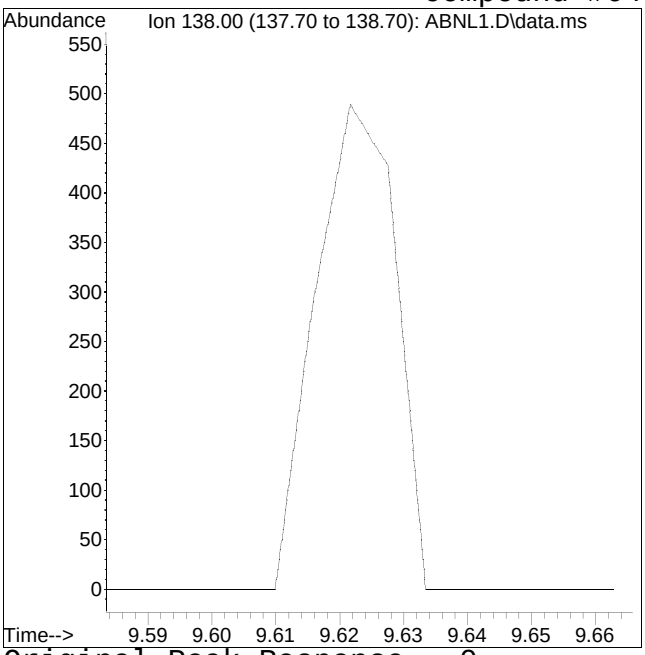
Manual Peak Response = 264 M2

M2 = Peak not found by automatic integration algorithm.

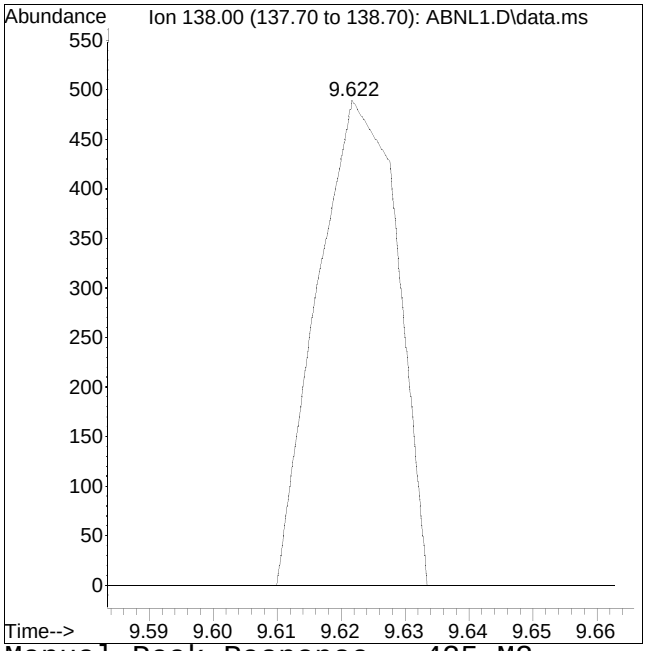
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #64: 3-Nitroaniline



Original Peak Response = 0



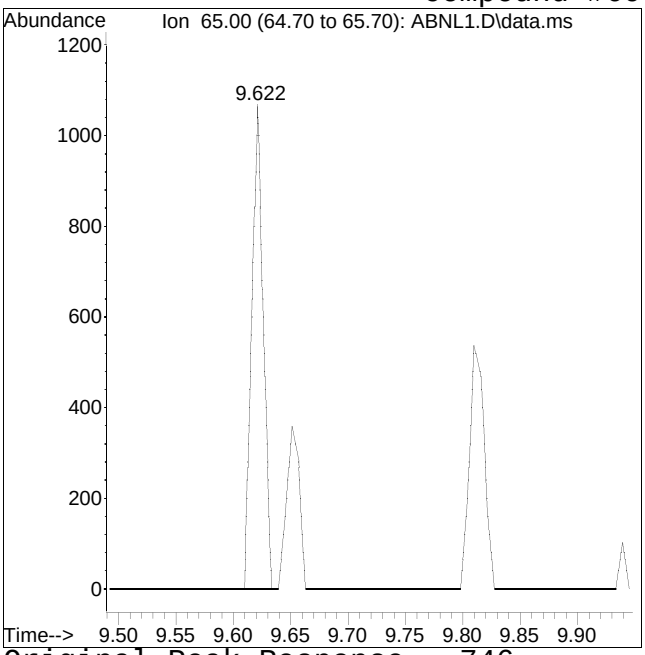
Manual Peak Response = 425 M2

M2 = Peak not found by automatic integration algorithm.

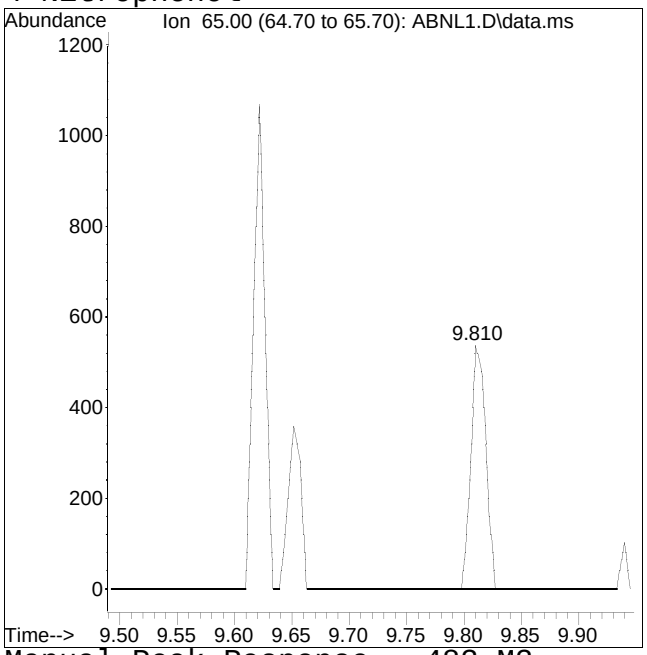
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #69: 4-Nitrophenol



Original Peak Response = 746



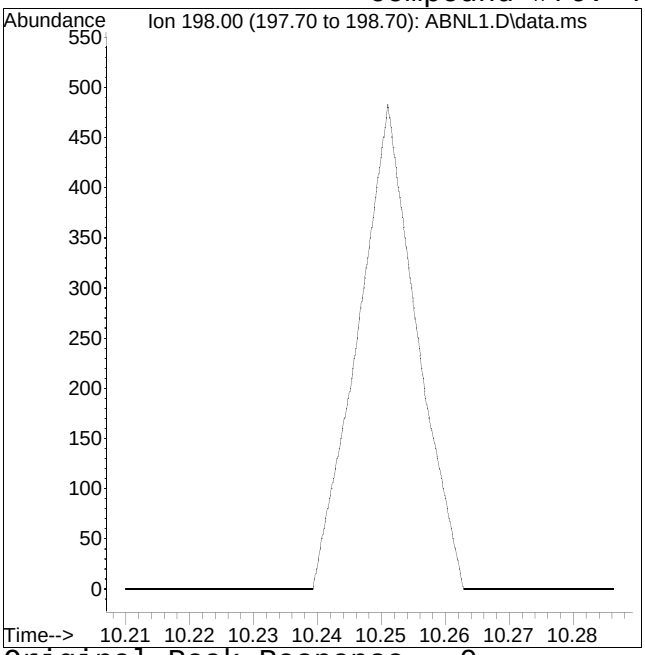
Manual Peak Response = 483 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

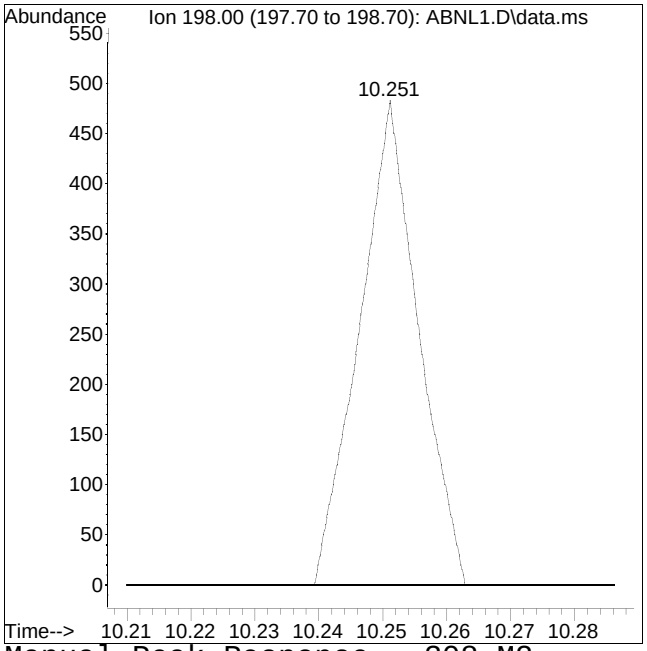
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #76: 4,6-Dinitro-o-cresol



Original Peak Response = 0



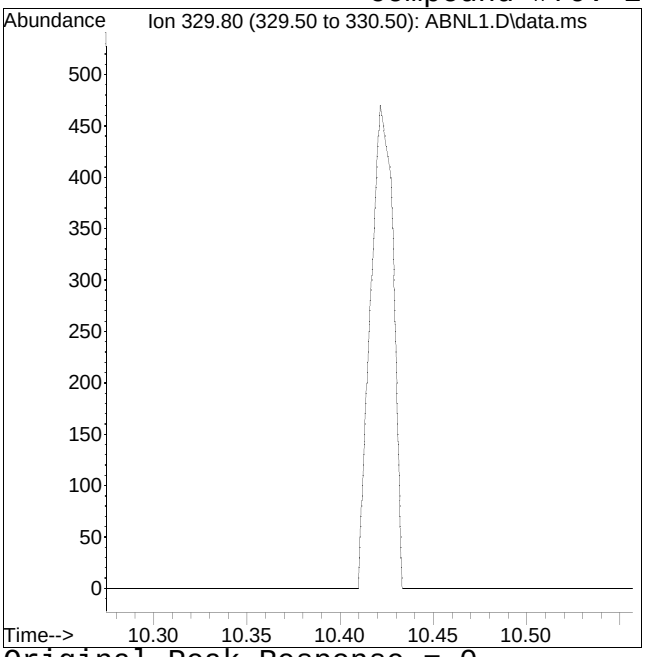
Manual Peak Response = 308 M2

M2 = Peak not found by automatic integration algorithm.

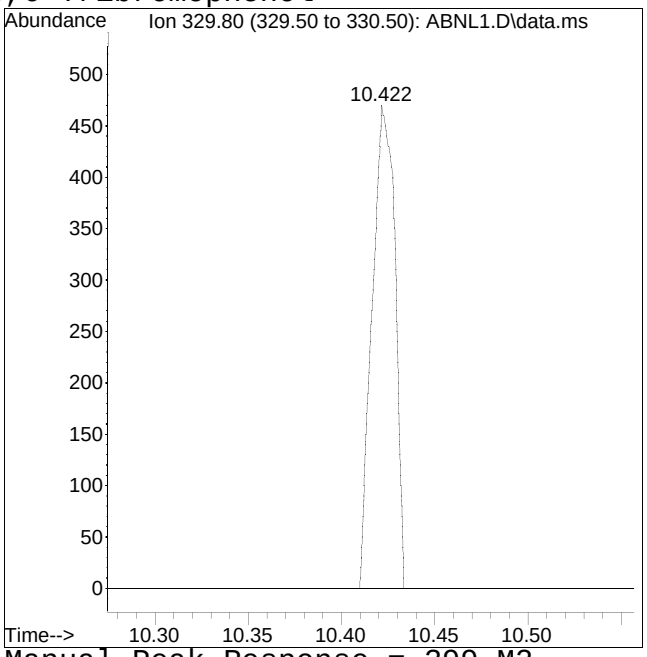
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #79: 2,4,6-Tribromophenol



Original Peak Response = 0



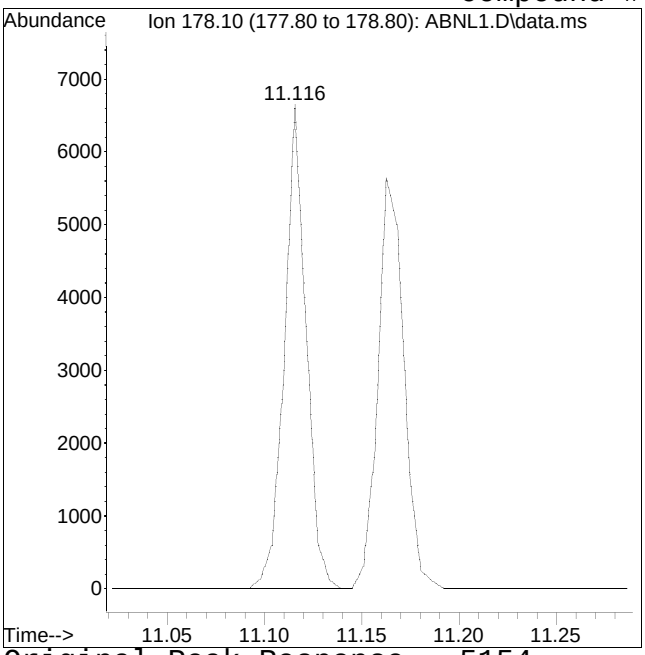
Manual Peak Response = 399 M2

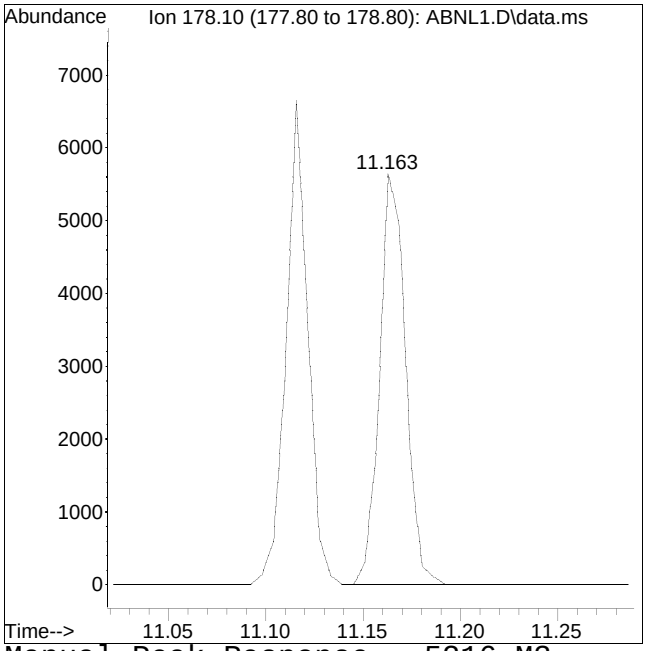
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #90: Anthracene





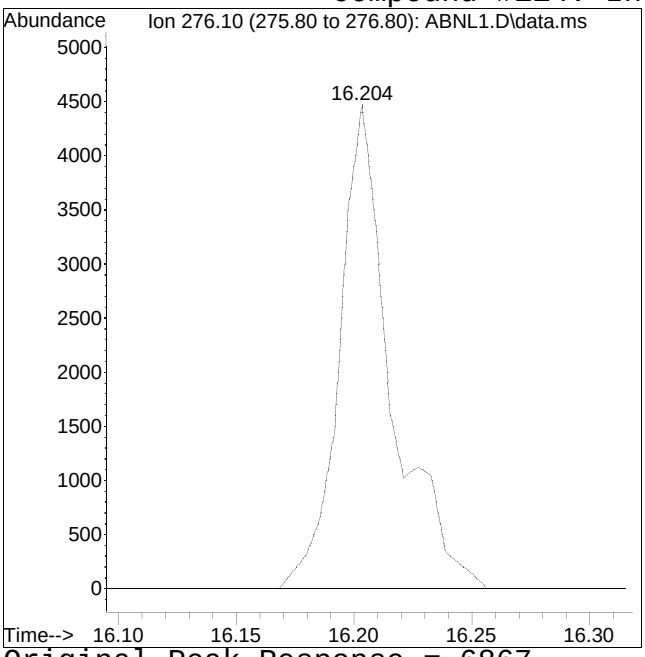
Original Peak Response = 5154 Manual Peak Response = 5216 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

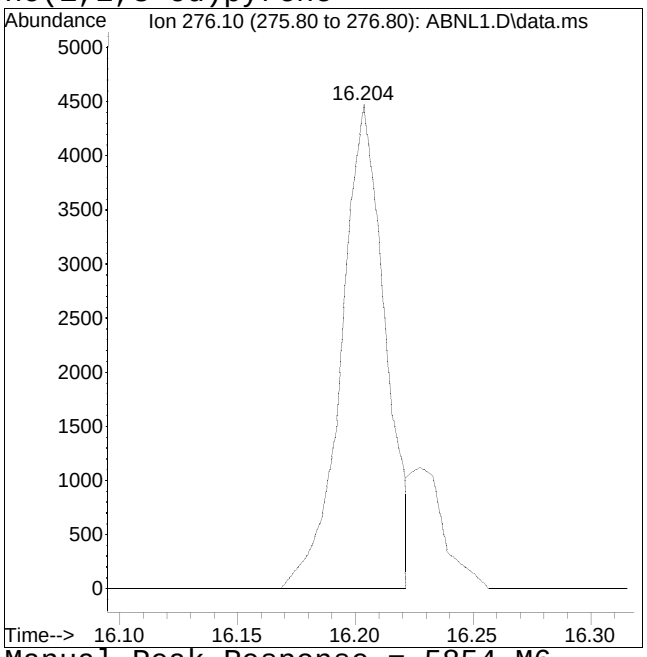
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 6867



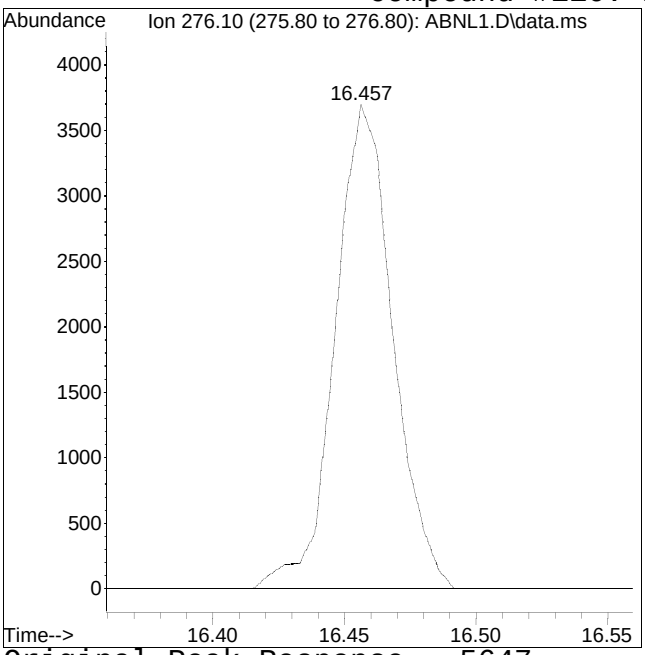
Manual Peak Response = 5854 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

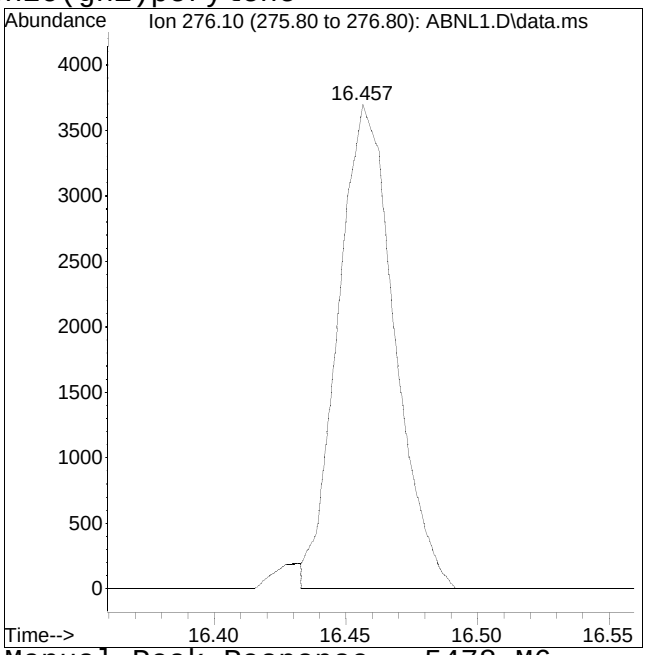
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 8:05 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.1 Lot# 1078Quant Date : 6/25/2024 10:16 am

Compound #116: Benzo(ghi)perylene



Original Peak Response = 5647



Manual Peak Response = 5478 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L9.D
Acq On : 24 Jun 2024 8:29 pm
Operator : SV106:ljg
Sample : IL2,32,,AP9L50 Lot# 10787
Misc : WG1939040
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 25 06:09:48 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.463	152	33960	4.000	ug/ml	0.00
Standard Area 1 = 32042			Recovery =	105.99%		
55) IS2_Naphthalene-d8	7.886	136	119399	4.000	ug/ml	# 0.00
Standard Area 1 = 114213			Recovery =	104.54%		
83) IS2_Acenaphthene-d10	9.651	164	75921	4.000	ug/ml	0.00
Standard Area 1 = 73214			Recovery =	103.70%		
98) IS2_Phenanthrene-d10	11.098	188	171923	4.000	ug/ml	0.00
Standard Area 1 = 172677			Recovery =	99.56%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.887	105	510854	54.930	ug/ml	97
29) Acetophenone	6.963	105	920034	54.699	ug/ml#	82
30) m-Toluidine	7.063	106	855291	59.791	ug/ml	94
31) 2-Chloroaniline	7.463	127	734153	53.409	ug/ml	98
56) a-Terpineol	7.969	59	606188	61.469	ug/ml#	86
57) 3-Chloroaniline	7.975	65	303336	56.096	ug/ml#	71
58) 2,6-Dichlorophenol	8.010	162	563445	62.979	ug/ml	95
59) 1-chloro-2-nitrobenzene	8.269	111	274806	53.627	ug/ml#	1
60) Caprolactam	8.339	55	338633	64.464	ug/ml#	77
61) 1,2,4,5-Tetrachloroben...	8.804	216	774819	56.359	ug/ml	98
62) Biphenyl	9.110	154	1567351	58.268	ug/ml	99
84) Dichloran	10.798	206	272093	74.901	ug/ml#	66
85) Pentachloronitrobenzene	10.945	237	278837	63.283	ug/ml#	76
99) Diphenamid	12.010	167	1257803	64.842	ug/ml	83

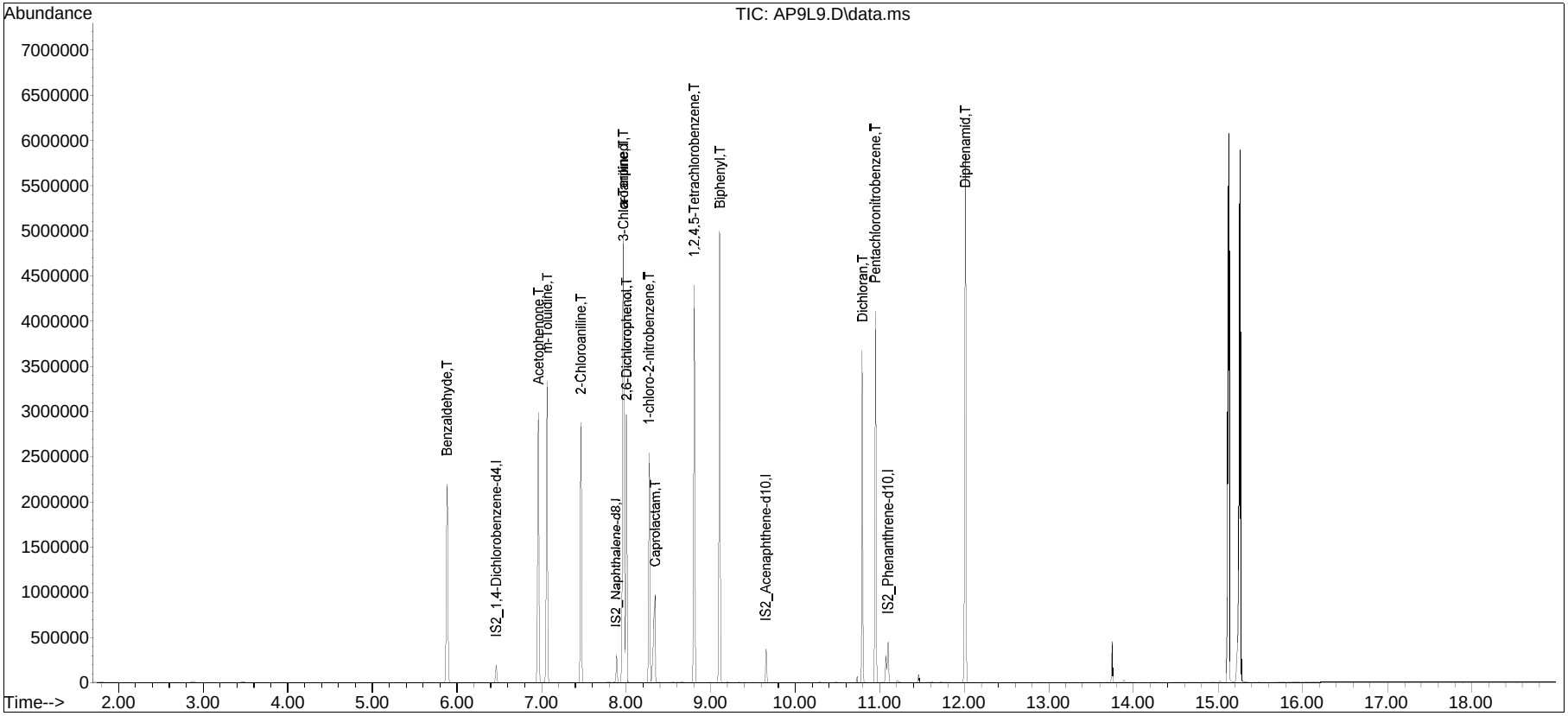
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L9.D
Acq On : 24 Jun 2024 8:29 pm
Operator : SV106:ljg
Sample : IL2,32,,AP9L50 Lot# 10787
Misc : WG1939040
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 25 06:09:48 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: AP9L9.D	Operator	: SV106:ljg
Date Inj'd	: 6/24/2024 8:29 pm	Instrument	: SV 106
Sample	: IL2,32,,AP9L50 Lot# 10787	Quant Date	: 6/25/2024 5:35 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L8.D
Acq On : 24 Jun 2024 8:53 pm
Operator : SV106:ljg
Sample : IL3,32,,AP9L25 Lot# 10788
Misc : WG1939040
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 25 06:09:20 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.457	152	28691	4.000	ug/ml	0.00
Standard Area 1 = 32042			Recovery = 89.54%			
55) IS2_Naphthalene-d8	7.886	136	100289	4.000	ug/ml	# 0.00
Standard Area 1 = 114213			Recovery = 87.81%			
83) IS2_Acenaphthene-d10	9.651	164	61635	4.000	ug/ml	0.00
Standard Area 1 = 73214			Recovery = 84.18%			
98) IS2_Phenanthrene-d10	11.092	188	137090	4.000	ug/ml	0.00
Standard Area 1 = 172677			Recovery = 79.39%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.881	105	217516	27.684	ug/ml	97
29) Acetophenone	6.957	105	388282	27.324	ug/ml#	83
30) m-Toluidine	7.057	106	367364	30.397	ug/ml	93
31) 2-Chloroaniline	7.463	127	309450	26.647	ug/ml	98
56) a-Terpineol	7.963	59	256052	30.912	ug/ml#	86
57) 3-Chloroaniline	7.975	65	127450	28.061	ug/ml#	71
58) 2,6-Dichlorophenol	8.004	162	236684	31.496	ug/ml	94
59) 1-chloro-2-nitrobenzene	8.269	111	114678	26.643	ug/ml#	1
60) Caprolactam	8.322	55	144383	32.723	ug/ml#	79
61) 1,2,4,5-Tetrachloroben...	8.804	216	323702	28.032	ug/ml	97
62) Biphenyl	9.104	154	655521	29.014	ug/ml	99
84) Dichloran	10.792	206	109245	37.043	ug/ml#	66
85) Pentachloronitrobenzene	10.945	237	111560	31.187	ug/ml#	75
99) Diphenamid	12.010	167	512204	33.114	ug/ml	84

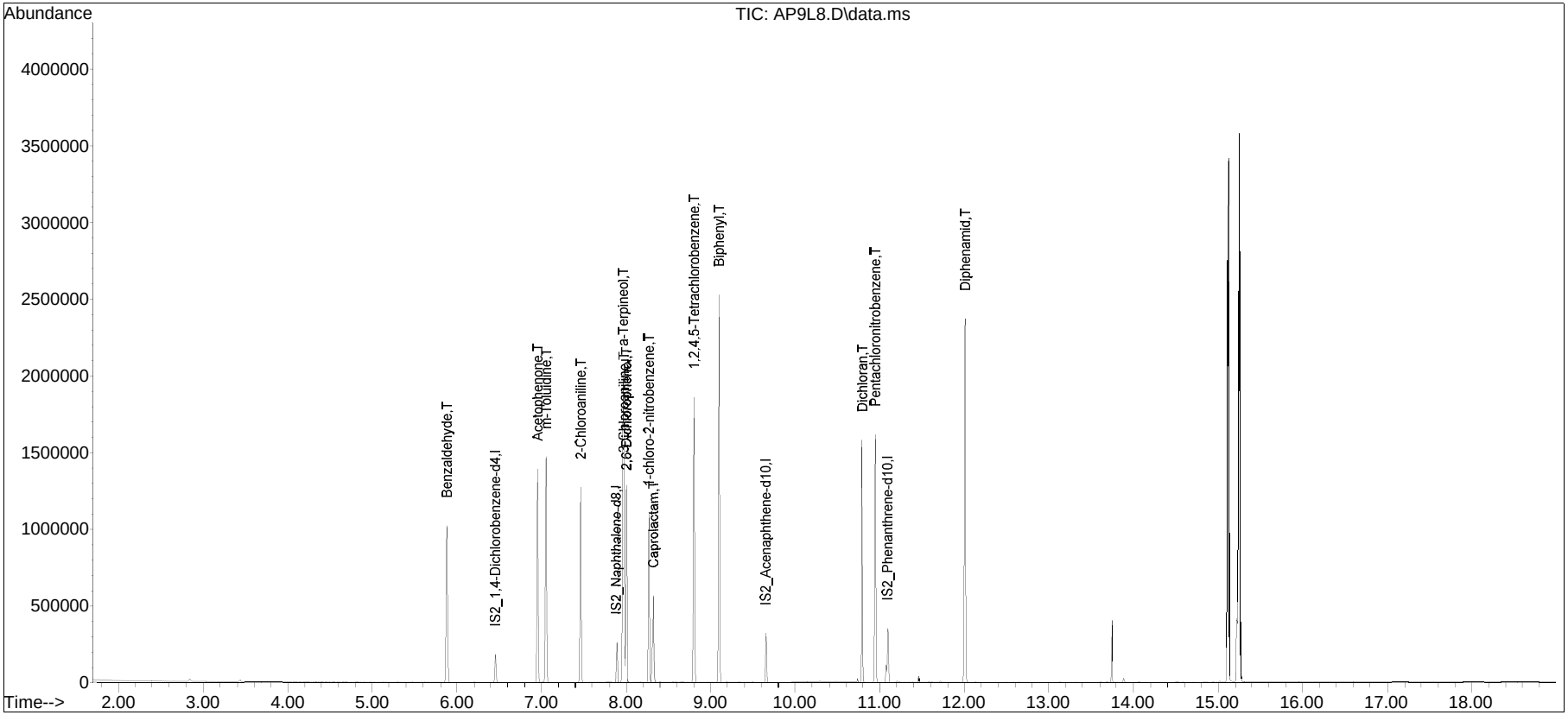
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L8.D
Acq On : 24 Jun 2024 8:53 pm
Operator : SV106:ljg
Sample : IL3,32,,AP9L25 Lot# 10788
Misc : WG1939040
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 25 06:09:20 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: AP9L8.D	Operator	: SV106:ljg
Date Inj'd	: 6/24/2024 8:53 pm	Instrument	: SV 106
Sample	: IL3,32,,AP9L25 Lot# 10788	Quant Date	: 6/25/2024 5:35 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L7.D
Acq On : 24 Jun 2024 9:16 pm
Operator : SV106:ljg
Sample : IL4,32,,AP9L10 Lot# 10789
Misc : WG1939040
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 25 06:08:55 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.463	152	31002	4.000	ug/ml	0.00
Standard Area 1 = 32042			Recovery = 96.75%			
55) IS2_Naphthalene-d8	7.887	136	112283	4.000	ug/ml	# 0.00
Standard Area 1 = 114213			Recovery = 98.31%			
83) IS2_Acenaphthene-d10	9.651	164	72435	4.000	ug/ml	0.00
Standard Area 1 = 73214			Recovery = 98.94%			
98) IS2_Phenanthrene-d10	11.092	188	166745	4.000	ug/ml	0.00
Standard Area 1 = 172677			Recovery = 96.56%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.881	105	97066	11.433	ug/ml	96
29) Acetophenone	6.957	105	177152	11.537	ug/ml#	83
30) m-Toluidine	7.057	106	161767	12.388	ug/ml	95
31) 2-Chloroaniline	7.463	127	141228	11.255	ug/ml	98
56) a-Terpineol	7.957	59	117691	12.690	ug/ml#	86
57) 3-Chloroaniline	7.969	65	58293	11.463	ug/ml#	73
58) 2,6-Dichlorophenol	7.998	162	110126	13.089	ug/ml	93
59) 1-chloro-2-nitrobenzene	8.269	111	52979	10.994	ug/ml#	1
60) Caprolactam	8.310	55	68449	13.856	ug/ml#	79
61) 1,2,4,5-Tetrachloroben...	8.804	216	150713	11.657	ug/ml	98
62) Biphenyl	9.104	154	306877	12.132	ug/ml	99
84) Dichloran	10.792	206	49912	14.401	ug/ml#	66
85) Pentachloronitrobenzene	10.945	237	54100	12.869	ug/ml#	76
99) Diphenamid	12.004	167	247915	13.177	ug/ml	83

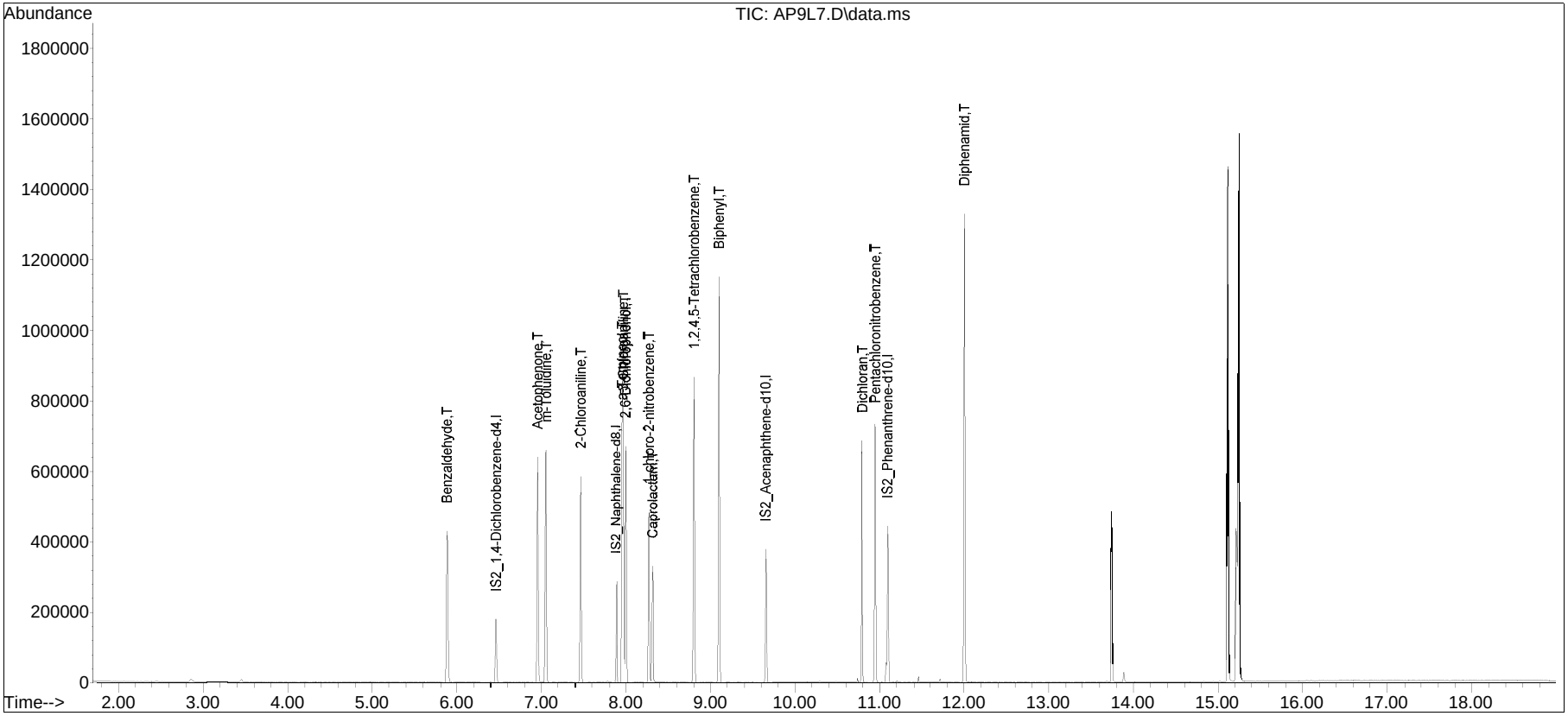
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L7.D
Acq On : 24 Jun 2024 9:16 pm
Operator : SV106:ljg
Sample : IL4,32,,AP9L10 Lot# 10789
Misc : WG1939040
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 25 06:08:55 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: AP9L7.D	Operator	: SV106:ljg
Date Inj'd	: 6/24/2024 9:16 pm	Instrument	: SV 106
Sample	: IL4,32,,AP9L10 Lot# 10789	Quant Date	: 6/25/2024 5:35 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L6.D
Acq On : 24 Jun 2024 9:40 pm
Operator : SV106:ljg
Sample : IL5,32,,AP9L5 Lot# 10790
Misc : WG1939040
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 25 06:08:29 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.463	152	32042	4.000	ug/ml	0.00
Standard Area 1 = 32042			Recovery =	100.00%		
55) IS2_Naphthalene-d8	7.886	136	114213	4.000	ug/ml	# 0.00
Standard Area 1 = 114213			Recovery =	100.00%		
83) IS2_Acenaphthene-d10	9.651	164	73214	4.000	ug/ml	0.00
Standard Area 1 = 73214			Recovery =	100.00%		
98) IS2_Phenanthrene-d10	11.092	188	172677	4.000	ug/ml	0.00
Standard Area 1 = 172677			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.887	105	46979	5.354	ug/ml	97
29) Acetophenone	6.957	105	85554	5.391	ug/ml#	84
30) m-Toluidine	7.057	106	77680	5.755	ug/ml	98
31) 2-Chloroaniline	7.463	127	67462	5.202	ug/ml	98
56) a-Terpineol	7.957	59	56477	5.987	ug/ml#	86
57) 3-Chloroaniline	7.969	65	28437	5.498	ug/ml#	72
58) 2,6-Dichlorophenol	7.998	162	53425	6.243	ug/ml	94
59) 1-chloro-2-nitrobenzene	8.269	111	26468	5.400	ug/ml#	1
60) Caprolactam	8.304	55	32080	6.384	ug/ml#	79
61) 1,2,4,5-Tetrachloroben...	8.804	216	75712	5.757	ug/ml#	96
62) Biphenyl	9.104	154	151430	5.885	ug/ml	99
84) Dichloran	10.792	206	24006	6.853	ug/ml#	65
85) Pentachloronitrobenzene	10.939	237	26571	6.253	ug/ml#	76
99) Diphenamid	12.004	167	122990	6.313	ug/ml	82

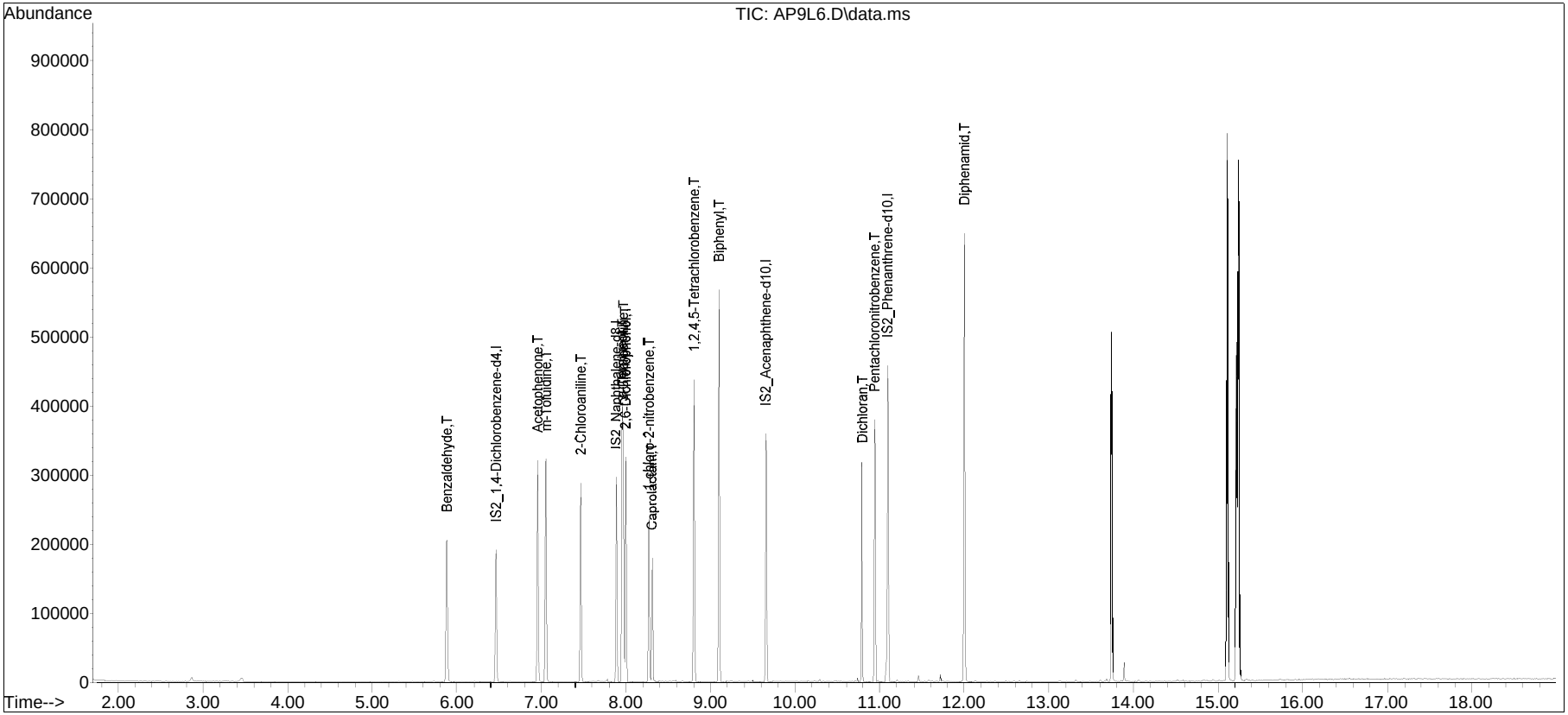
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L6.D
Acq On : 24 Jun 2024 9:40 pm
Operator : SV106:ljg
Sample : IL5,32,,AP9L5 Lot# 10790
Misc : WG1939040
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 25 06:08:29 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: AP9L6.D	Operator	: SV106:ljg
Date Inj'd	: 6/24/2024 9:40 pm	Instrument	: SV 106
Sample	: IL5,32,,AP9L5 Lot# 10790	Quant Date	: 6/25/2024 5:35 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L5.D
Acq On : 24 Jun 2024 10:04 pm
Operator : SV106:ljg
Sample : IL6,32,,AP9L2.5 Lot# 10791
Misc : WG1939040
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 06:08:02 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.463	152	31187	4.000	ug/ml	0.00
Standard Area 1 = 32042			Recovery = 97.33%			
55) IS2_Naphthalene-d8	7.887	136	111550	4.000	ug/ml	# 0.00
Standard Area 1 = 114213			Recovery = 97.67%			
83) IS2_Acenaphthene-d10	9.651	164	71188	4.000	ug/ml	0.00
Standard Area 1 = 73214			Recovery = 97.23%			
98) IS2_Phenanthrene-d10	11.092	188	161108	4.000	ug/ml	0.00
Standard Area 1 = 172677			Recovery = 93.30%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.887	105	23076	2.702	ug/ml	99
29) Acetophenone	6.957	105	41556	2.690	ug/ml#	84
30) m-Toluidine	7.057	106	37833	2.880	ug/ml	95
31) 2-Chloroaniline	7.463	127	33265	2.635	ug/ml	96
56) a-Terpineol	7.957	59	27669	3.003	ug/ml#	86
57) 3-Chloroaniline	7.969	65	13967	2.765	ug/ml#	71
58) 2,6-Dichlorophenol	7.998	162	25265	3.023	ug/ml	91
59) 1-chloro-2-nitrobenzene	8.269	111	12518	2.615	ug/ml#	1
60) Caprolactam	8.298	55	14825	3.021	ug/ml#	78
61) 1,2,4,5-Tetrachloroben...	8.804	216	37037	2.884	ug/ml#	94
62) Biphenyl	9.104	154	73701	2.933	ug/ml	99
84) Dichloran	10.792	206	10305	3.025	ug/ml#	67
85) Pentachloronitrobenzene	10.939	237	11593	2.806	ug/ml#	77
99) Diphenamid	12.004	167	54877	3.019	ug/ml	83

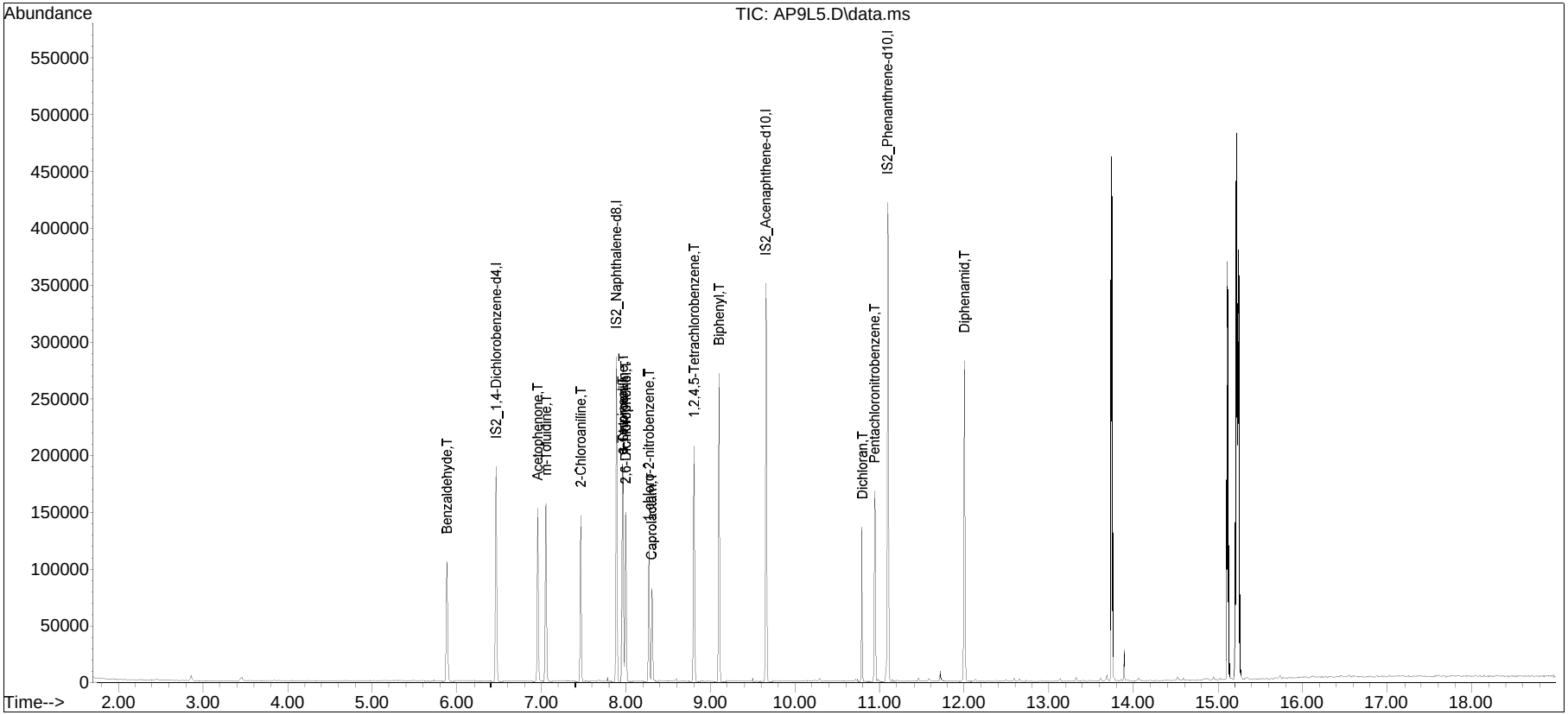
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L5.D
Acq On : 24 Jun 2024 10:04 pm
Operator : SV106:ljg
Sample : IL6,32,,AP9L2.5 Lot# 10791
Misc : WG1939040
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 25 06:08:02 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: AP9L5.D	Operator	: SV106:ljg
Date Inj'd	: 6/24/2024 10:04 pm	Instrument	: SV 106
Sample	: IL6,32,,AP9L2.5 Lot# 10791	Quant Date	: 6/25/2024 5:35 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L4.D
Acq On : 24 Jun 2024 10:28 pm
Operator : SV106:ljg
Sample : IL7,32,,AP9L1 Lot# 10792
Misc : WG1939040
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 06:07:37 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	6.463	152	31295	4.000 ug/ml	0.00
Standard Area 1 = 32042			Recovery = 97.67%		
55) IS2_Naphthalene-d8	7.887	136	111566	4.000 ug/ml	# 0.00
Standard Area 1 = 114213			Recovery = 97.68%		
83) IS2_Acenaphthene-d10	9.651	164	68179	4.000 ug/ml	0.00
Standard Area 1 = 73214			Recovery = 93.12%		
98) IS2_Phenanthrene-d10	11.092	188	160802	4.000 ug/ml	0.00
Standard Area 1 = 172677			Recovery = 93.12%		
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	5.887	105	9257	1.080 ug/ml	97
29) Acetophenone	6.957	105	17120	1.105 ug/ml#	86
30) m-Toluidine	7.057	106	15619	1.185 ug/ml	91
31) 2-Chloroaniline	7.463	127	12926	1.020 ug/ml	96
56) a-Terpineol	7.957	59	10854	1.178 ug/ml#	84
57) 3-Chloroaniline	7.969	65	5581	1.105 ug/ml#	70
58) 2,6-Dichlorophenol	7.998	162	9965	1.192 ug/ml	93
59) 1-chloro-2-nitrobenzene	8.269	111	5017	1.048 ug/ml#	1
60) Caprolactam	8.298	55	5985	1.219 ug/ml#	78
61) 1,2,4,5-Tetrachloroben...	8.804	216	15172	1.181 ug/ml	94
62) Biphenyl	9.104	154	30504	1.214 ug/ml	97
84) Dichloran	10.792	206	3743	1.147 ug/ml#	70
85) Pentachloronitrobenzene	10.939	237	4753	1.201 ug/ml#	74
99) Diphenamid	12.004	167	22624	1.247 ug/ml#	82

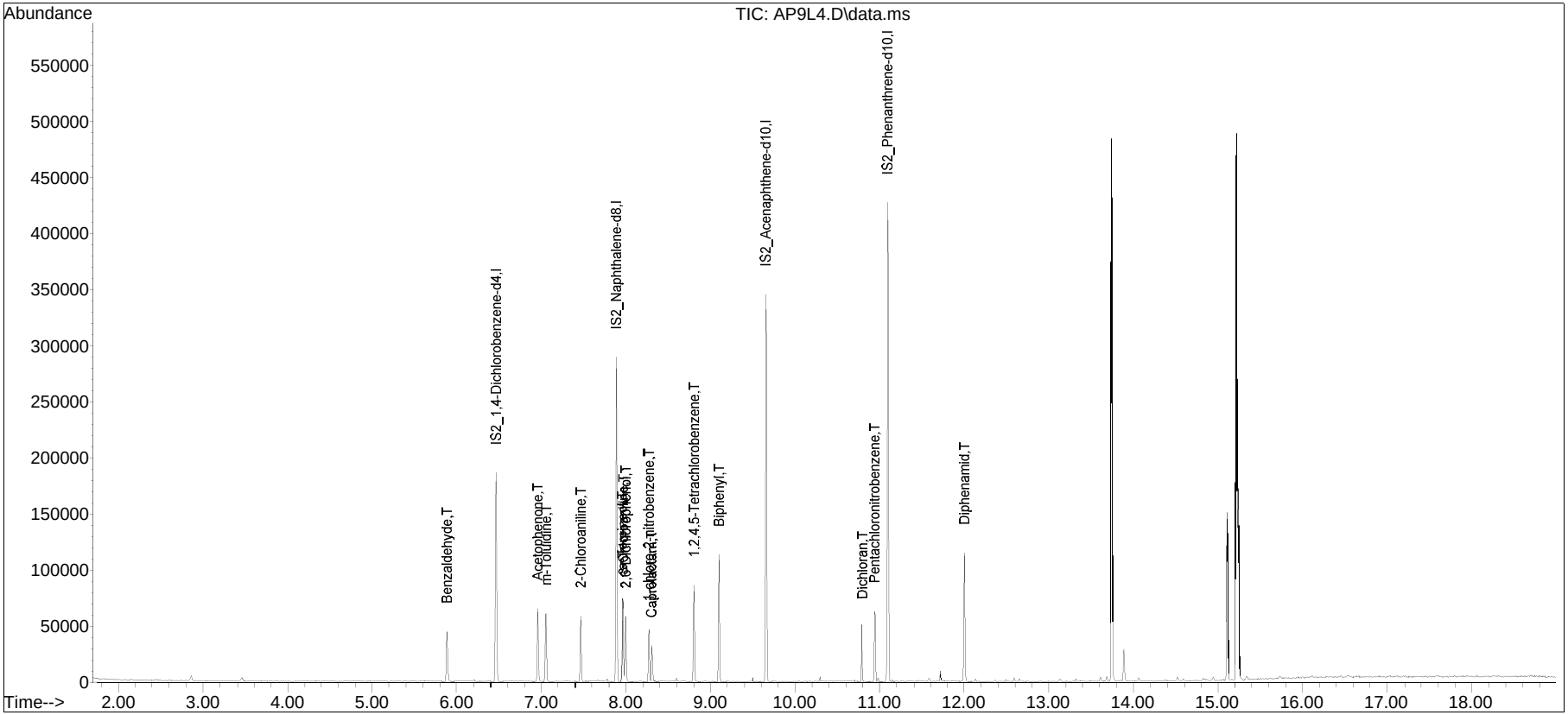
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L4.D
Acq On : 24 Jun 2024 10:28 pm
Operator : SV106:ljg
Sample : IL7,32,,AP9L1 Lot# 10792
Misc : WG1939040
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 06:07:37 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: AP9L4.D	Operator	: SV106:ljg
Date Inj'd	: 6/24/2024 10:28 pm	Instrument	: SV 106
Sample	: IL7,32,,AP9L1 Lot# 10792	Quant Date	: 6/25/2024 5:35 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L3.D
Acq On : 24 Jun 2024 10:52 pm
Operator : SV106:ljg
Sample : IL8,32,,AP9L0.5 Lot# 10793
Misc : WG1939040
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 25 06:07:11 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.463	152	32258	4.000	ug/ml	0.00
Standard Area 1 = 32042			Recovery =	100.67%		
55) IS2_Naphthalene-d8	7.886	136	113710	4.000	ug/ml	# 0.00
Standard Area 1 = 114213			Recovery =	99.56%		
83) IS2_Acenaphthene-d10	9.651	164	71361	4.000	ug/ml	0.00
Standard Area 1 = 73214			Recovery =	97.47%		
98) IS2_Phenanthrene-d10	11.092	188	160057	4.000	ug/ml	0.00
Standard Area 1 = 172677			Recovery =	92.69%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.887	105	4894	0.554	ug/ml	95
29) Acetophenone	6.957	105	8612	0.539	ug/ml#	86
30) m-Toluidine	7.057	106	7488	0.551	ug/ml	95
31) 2-Chloroaniline	7.463	127	7306	0.560	ug/ml	98
56) a-Terpineol	7.957	59	5447	0.580	ug/ml#	80
57) 3-Chloroaniline	7.969	65	2881	0.559	ug/ml	78
58) 2,6-Dichlorophenol	7.998	162	4821	0.566	ug/ml	95
59) 1-chloro-2-nitrobenzene	8.269	111	2709	0.555	ug/ml#	1
60) Caprolactam	8.298	55	3021	0.604	ug/ml#	75
61) 1,2,4,5-Tetrachloroben...	8.804	216	8224	0.628	ug/ml	91
62) Biphenyl	9.104	154	15925	0.622	ug/ml	98
84) Dichloran	10.792	206	1945	0.570	ug/ml#	57
85) Pentachloronitrobenzene	10.939	237	2070	0.500	ug/ml#	77
99) Diphenamid	12.004	167	11803	0.654	ug/ml#	81

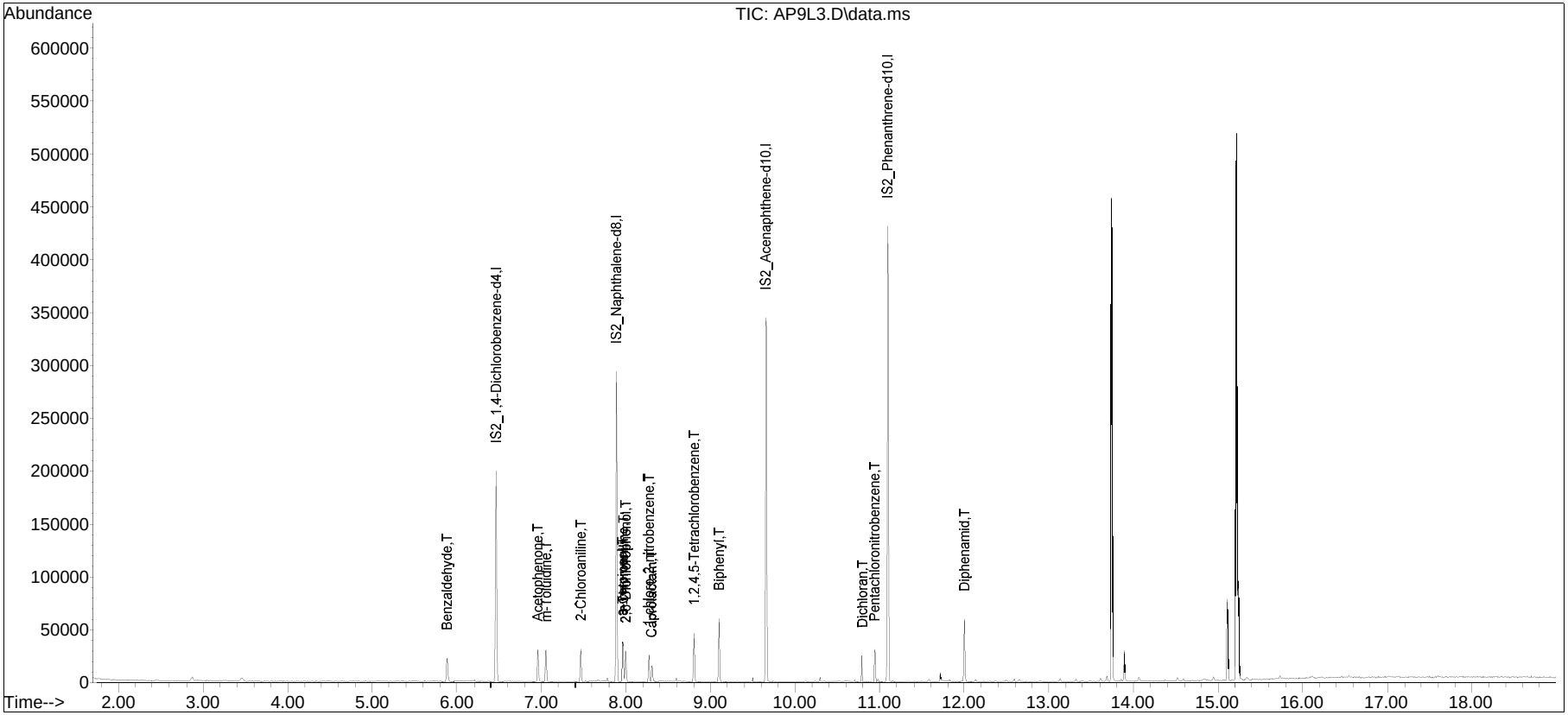
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L3.D
Acq On : 24 Jun 2024 10:52 pm
Operator : SV106:ljg
Sample : IL8,32,,AP9L0.5 Lot# 10793
Misc : WG1939040
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 25 06:07:11 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: AP9L3.D	Operator	: SV106:ljg
Date Inj'd	: 6/24/2024 10:52 pm	Instrument	: SV 106
Sample	: IL8,32,,AP9L0.5 Lot# 10793	Quant Date	: 6/25/2024 5:35 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L2.D
Acq On : 24 Jun 2024 11:15 pm
Operator : SV106:ljg
Sample : IL9,32,,AP9L0.2 Lot# 10794
Misc : WG1939040
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 25 06:06:41 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.463	152	34135	4.000	ug/ml	0.00
Standard Area 1 = 32042			Recovery = 106.53%			
55) IS2_Naphthalene-d8	7.886	136	116946	4.000	ug/ml	# 0.00
Standard Area 1 = 114213			Recovery = 102.39%			
83) IS2_Acenaphthene-d10	9.651	164	72779	4.000	ug/ml	0.00
Standard Area 1 = 73214			Recovery = 99.41%			
98) IS2_Phenanthrene-d10	11.092	188	167902	4.000	ug/ml	0.00
Standard Area 1 = 172677			Recovery = 97.23%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.893	105	1968	0.211	ug/ml	86
29) Acetophenone	6.963	105	3770	0.223	ug/ml#	94
30) m-Toluidine	7.057	106	3427	0.238	ug/ml	92
31) 2-Chloroaniline	7.463	127	3086	0.223	ug/ml#	90
56) a-Terpineol	7.957	59	2380	0.246	ug/ml#	80
57) 3-Chloroaniline	7.975	65	1094	0.207	ug/ml	80
58) 2,6-Dichlorophenol	7.998	162	2192	0.250	ug/ml	88
59) 1-chloro-2-nitrobenzene	8.269	111	1047	0.209	ug/ml#	1
60) Caprolactam	8.304	55	1022M6	0.199	ug/ml	
61) 1,2,4,5-Tetrachloroben...	8.804	216	3410	0.253	ug/ml#	95
62) Biphenyl	9.104	154	6457	0.245	ug/ml	96
84) Dichloran	10.786	206	853	0.245	ug/ml#	57
85) Pentachloronitrobenzene	10.939	237	922	0.218	ug/ml#	72
99) Diphenamid	12.004	167	4675	0.247	ug/ml#	80

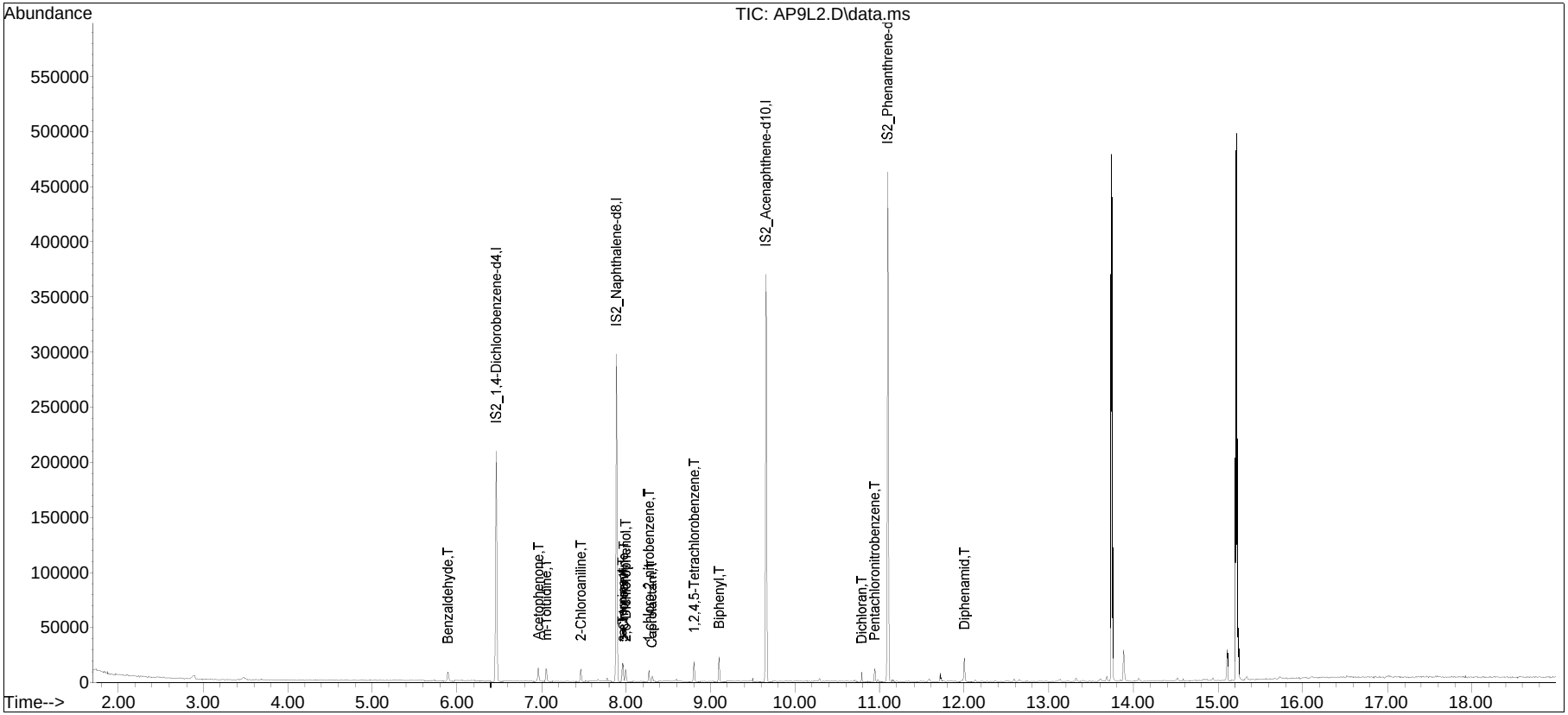
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L2.D
Acq On : 24 Jun 2024 11:15 pm
Operator : SV106:ljg
Sample : IL9,32,,AP9L0.2 Lot# 10794
Misc : WG1939040
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 25 06:06:41 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

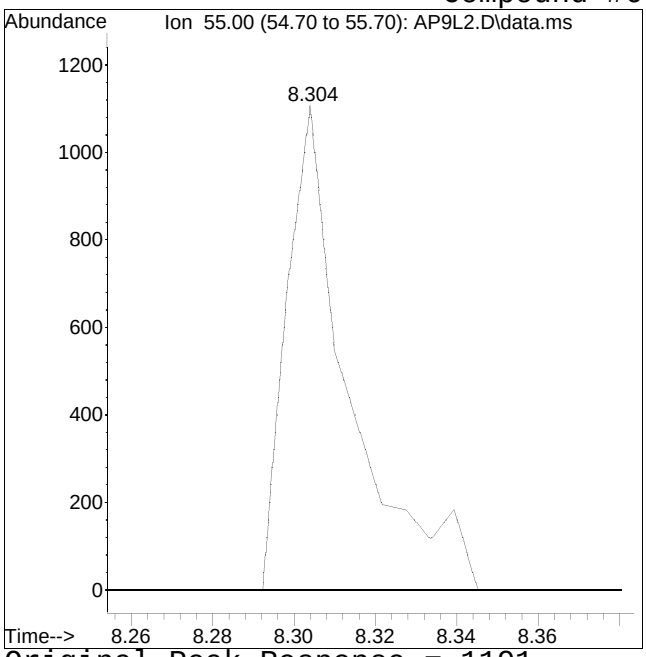
Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



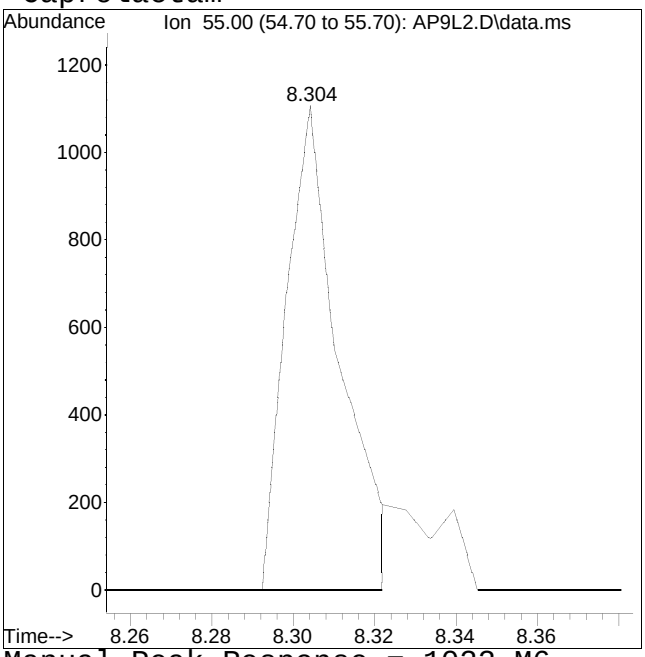
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : AP9L2.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 11:15 pm Instrument : SV 106
Sample : IL9,32,,AP9L0.2 Lot# 10794Quant Date : 6/25/2024 5:35 am

Compound #60: Caprolactam



Original Peak Response = 1191



Manual Peak Response = 1022 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L1.D
Acq On : 24 Jun 2024 11:39 pm
Operator : SV106:ljg
Sample : IL10,32,,AP9L0.1 Lot# 10795
Misc : WG1939040
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 25 06:05:40 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.463	152	31818	4.000	ug/ml	0.00
Standard Area 1 = 32042			Recovery = 99.30%			
55) IS2_Naphthalene-d8	7.886	136	109777	4.000	ug/ml	# 0.00
Standard Area 1 = 114213			Recovery = 96.12%			
83) IS2_Acenaphthene-d10	9.657	164	67656	4.000	ug/ml	0.00
Standard Area 1 = 73214			Recovery = 92.41%			
98) IS2_Phenanthrene-d10	11.092	188	150420	4.000	ug/ml	0.00
Standard Area 1 = 172677			Recovery = 87.11%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.892	105	884	0.101	ug/ml	84
29) Acetophenone	6.963	105	1595	0.101	ug/ml#	69
30) m-Toluidine	7.057	106	1368	0.102	ug/ml#	89
31) 2-Chloroaniline	7.463	127	1148	0.089	ug/ml#	42
56) a-Terpineol	7.957	59	1085	0.120	ug/ml	93
57) 3-Chloroaniline	7.969	65	555	0.112	ug/ml#	35
58) 2,6-Dichlorophenol	7.998	162	822	0.100	ug/ml#	88
59) 1-chloro-2-nitrobenzene	8.269	111	416M2	0.088	ug/ml	
60) Caprolactam	8.310	55	411M2	0.085	ug/ml	
61) 1,2,4,5-Tetrachloroben...	8.804	216	1637	0.130	ug/ml#	87
62) Biphenyl	9.104	154	3108	0.126	ug/ml	94
84) Dichloran	10.786	206	359M2	0.111	ug/ml	
85) Pentachloronitrobenzene	10.939	237	395M2	0.101	ug/ml	
99) Diphenamid	12.004	167	1690	0.100	ug/ml#	81

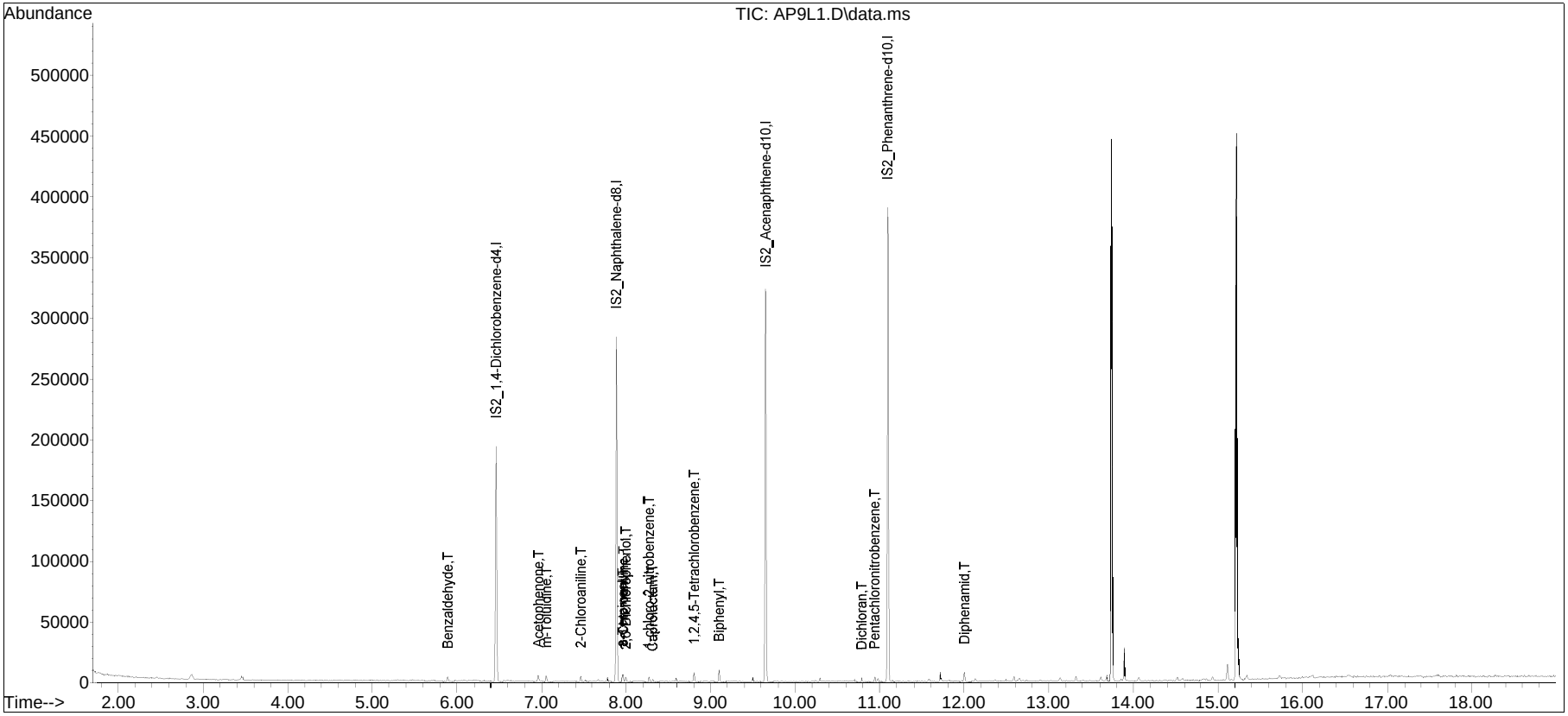
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9L1.D
Acq On : 24 Jun 2024 11:39 pm
Operator : SV106:ljg
Sample : IL10,32,,AP9L0.1 Lot# 10795
Misc : WG1939040
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 25 06:05:40 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 05:32:01 2024
Response via : Initial Calibration

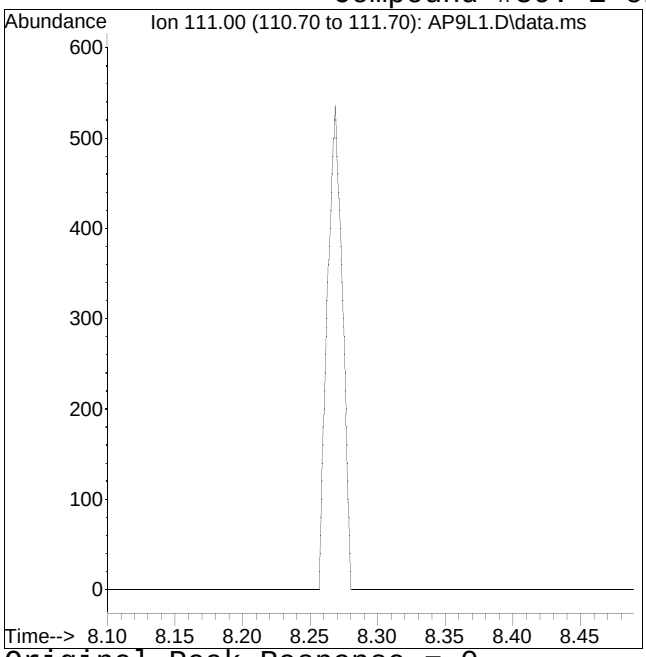
Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•



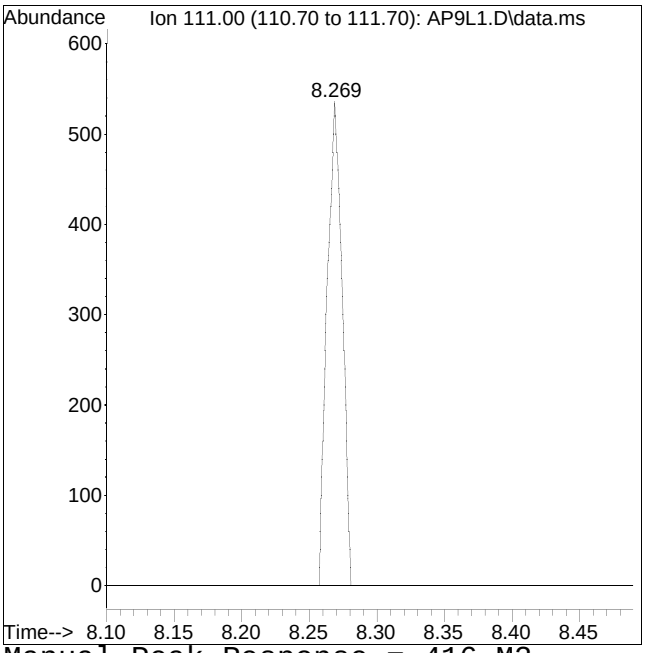
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : AP9L1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 11:39 pm Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 6/25/2024 5:35 am

Compound #59: 1-chloro-2-nitrobenzene



Original Peak Response = 0



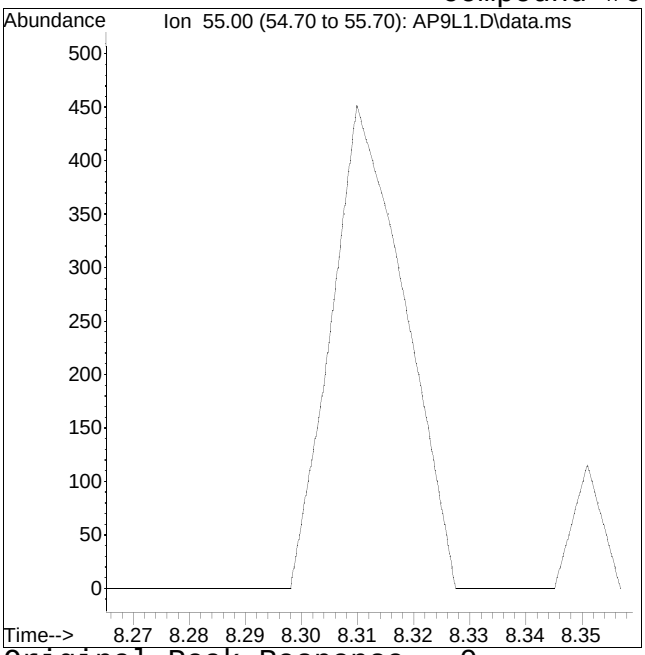
Manual Peak Response = 416 M2

M2 = Peak not found by automatic integration algorithm.

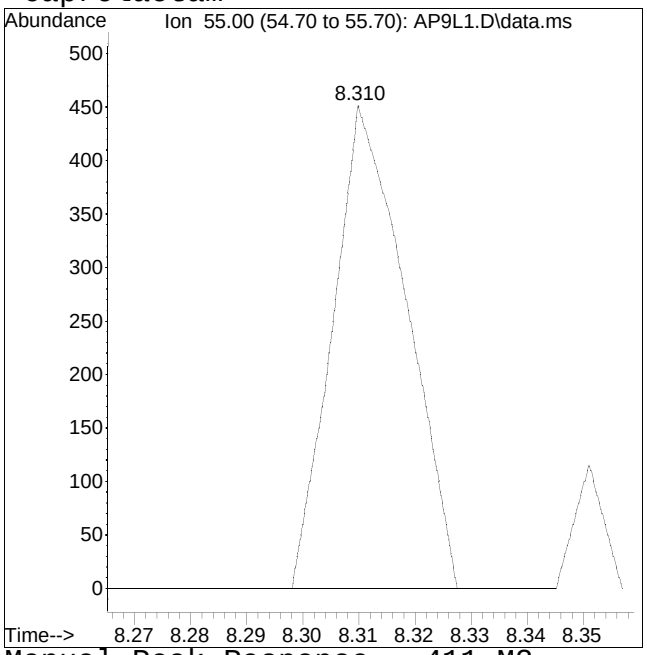
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : AP9L1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 11:39 pm Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 6/25/2024 5:35 am

Compound #60: Caprolactam



Original Peak Response = 0



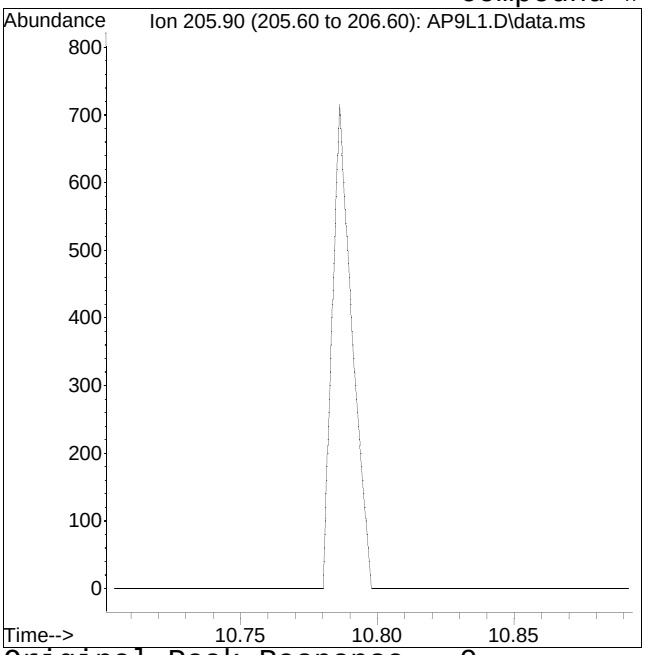
Manual Peak Response = 411 M2

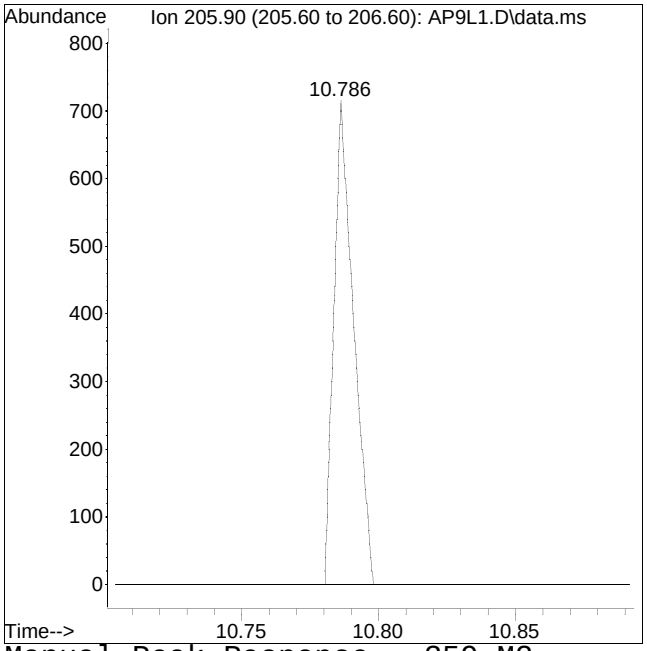
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : AP9L1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 11:39 pm Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 6/25/2024 5:35 am

Compound #84: Dichloran



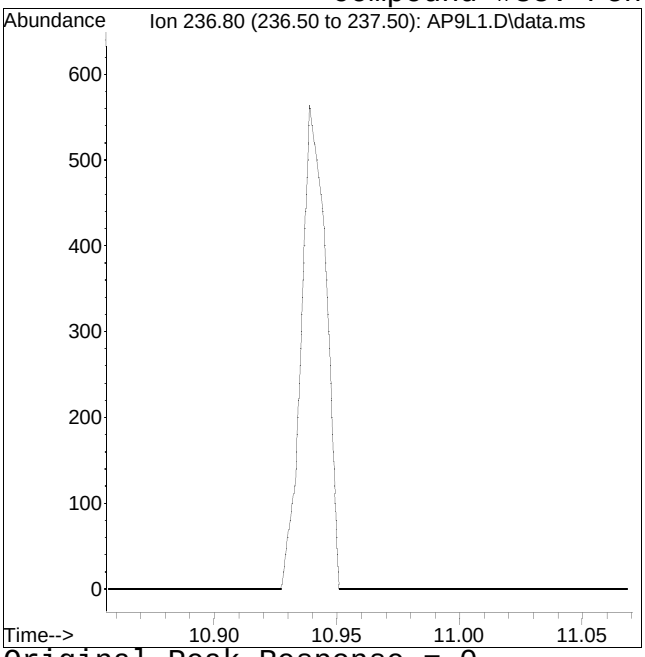


Original Peak Response = 0 Manual Peak Response = 359 M2
M2 = Peak not found by automatic integration algorithm.

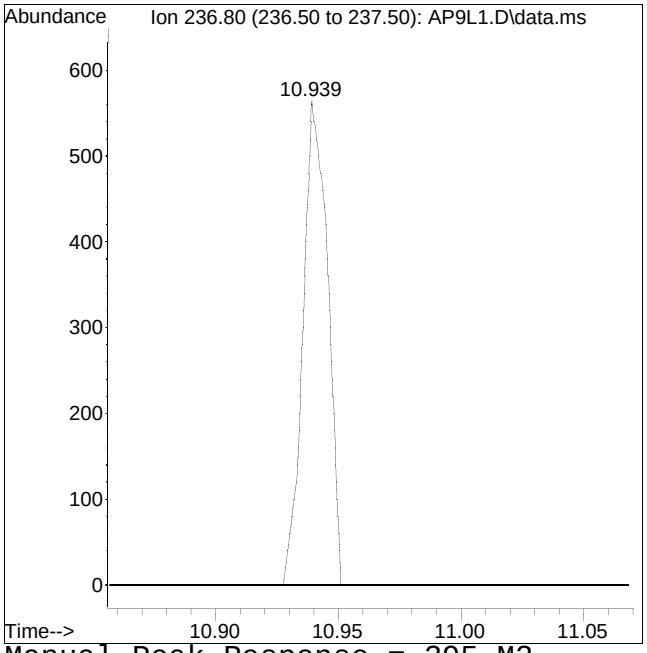
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : AP9L1.D Operator : SV106:ljg
Date Inj'd : 6/24/2024 11:39 pm Instrument : SV 106
Sample : IL10,32,,AP9L0.1 Lot# 1079Quant Date : 6/25/2024 5:35 am

Compound #85: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 395 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNICV.D
Acq On : 25 Jun 2024 12:03 am
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939040,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 06:32:52 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine		0.851	0.816	4.1	97	-0.02
3	t	Pyridine		1.392	1.335	4.1	96	-0.02
4	S	2-Fluorophenol		1.156	1.067	7.7	91	-0.01
5	T	Aniline		2.049	1.842	10.1	91	0.00
6	t	2-Chlorophenol		1.288	1.197	7.1	96	0.00
7	S	Phenol-d6		1.583	1.468	7.3	96	0.00
8	T	Phenol		1.642	1.549	5.7	96	0.00
9	T	Bis(2-chloroethyl)ether		1.348	1.264	6.2	95	0.00
10	T	1,3-Dichlorobenzene		1.546	1.411	8.7	93	0.00
11	T	1,4-Dichlorobenzene		1.565	1.483	5.2	98	0.00
12	T	1,2-Dichlorobenzene		1.522	1.374	9.7	93	0.00
13	t	Benzyl alcohol		1.267	1.198	5.4	95	0.00
14	T	Bis(2-chloroisopropyl)ether		2.166	2.053	5.2	98	0.00
15	T	2-Methylphenol		1.183	1.086	8.2	92	0.00
16	T	Hexachloroethane		0.623	0.570	8.5	97	0.00
17	T	n-Nitrosodi-n-propylamine		1.057	1.014	4.1	94	0.00
18	T	3-Methylphenol/4-Methylphen		1.279	1.202	6.0	96	0.00
19	S	Nitrobenzene-d5		1.619	1.489	8.0	95	0.00
20	T	Nitrobenzene		1.643	1.519	7.5	96	0.00
21	T	Isophorone		2.760	2.659	3.7	94	0.00
22	T	2-Nitrophenol		0.692	0.662	4.3	95	0.00
23	T	2,4-Dimethylphenol		1.301	1.126	13.5	88	0.00
24	T	Bis(2-chloroethoxy)methane		1.778	1.670	6.1	96	0.00
25	T	2,4-Dichlorophenol		1.233	1.197	2.9	96	0.00
26	T	1,2,4-Trichlorobenzene		1.510	1.365	9.6	96	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	96	0.00
36	T	Naphthalene		1.147	1.016	11.4	97	0.00
37	T	Benzoic Acid	*	5.000	4.412	11.8	90	0.00
38	T	4-Chloroaniline		0.169	0.157	7.1	96	0.00
39	T	Hexachlorobutadiene		0.303	0.263	13.2	97	0.00
40	T	p-Chloro-m-cresol		0.343	0.327	4.7	98	0.00
41	T	2-Methylnaphthalene		0.764	0.705	7.7	98	0.00
42	T	1-Methylnaphthalene		0.290	0.267	7.9	97	0.00
43	T	Hexachlorocyclopentadiene		0.336	0.313	6.8	97	0.00
44	T	2,4,6-Trichlorophenol		0.301	0.284	5.6	97	0.00
45	T	2,4,5-Trichlorophenol		0.322	0.310	3.7	96	0.00
46	S	2-Fluorobiphenyl		1.027	0.935	9.0	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNICV.D
Acq On : 25 Jun 2024 12:03 am
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939040,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 06:32:52 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene	0.813	0.749	7.9	98	0.00
48	T	2-Nitroaniline	0.245	0.239	2.4	99	0.00
49	T	1,4-Dinitrobenzene	0.129	0.126	2.3	100	0.00
50	T	1,3-Dinitrobenzene	0.147	0.143	2.7	97	0.00
51	T	Dimethyl phthalate	0.989	0.951	3.8	99	0.00
52	T	Acenaphthylene	1.244	1.209	2.8	100	0.00
53	T	2,6-Dinitrotoluene	0.213	0.205	3.8	96	0.00
54	T	1,2-Dinitrobenzene	0.091	0.085	6.6	92	0.00
63	I	IS1_Acenaphthene-d10	1.000	1.000	0.0	96	0.00
64	T	3-Nitroaniline	0.319	0.328	-2.8	99	0.00
65	T	Acenaphthene	1.153	1.072	7.0	98	0.00
66	T	2,4-Dinitrophenol	0.213	0.204	4.2	91	0.00
67	T	Dibenzofuran	1.936	1.758	9.2	97	0.00
68	T	2,4-Dinitrotoluene	0.475	0.449	5.5	93	0.00
69	T	4-Nitrophenol	0.323	0.320	0.9	100	0.00
70	T	2,3,5,6-Tetrachlorophenol	0.452	0.456	-0.9	100	0.00
71	T	2,3,4,6-Tetrachlorophenol	0.435	0.446	-2.5	99	0.00
72	T	Diethyl phthalate	1.529	1.455	4.8	100	0.00
73	T	Fluorene	1.523	1.420	6.8	97	0.00
74	T	4-Chlorophenyl phenyl ether	0.801	0.756	5.6	103	0.00
75	T	4-Nitroaniline	0.333	0.319	4.2	99	0.00
76	T	4,6-Dinitro-o-cresol	0.266	0.288	-8.3	99	0.00
77	T	NDPA/DPA	1.263	1.194	5.5	96	0.00
78	T	Azobenzene	1.446	1.375	4.9	98	0.00
79	S	2,4,6-Tribromophenol	0.249	0.254	-2.0	100	0.00
80	T	4-Bromophenyl phenyl ether	0.500	0.473	5.4	100	0.00
81	T	Hexachlorobenzene	0.569	0.516	9.3	98	0.00
82	T	Pentachlorophenol	0.361	0.378	-4.7	98	0.00
88	I	IS1_Phenanthrene-d10	1.000	1.000	0.0	99	0.00
89	T	Phenanthrene	1.117	0.986	11.7	98	0.00
90	T	Anthracene	1.111	1.025	7.7	99	0.00
91	T	Carbazole	1.018	0.940	7.7	100	0.00
92	T	Di-n-butylphthalate	1.195	1.135	5.0	100	0.00
93	T	Fluoranthene	1.366	1.247	8.7	100	0.00
94	T	Benzidine	0.741	0.742	-0.1	100	0.00
95	T	Pyrene	1.440	1.328	7.8	101	0.00
96	S	4-Terphenyl-d14	1.076	0.986	8.4	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNICV.D
Acq On : 25 Jun 2024 12:03 am
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939040,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 06:32:52 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.550	0.505	8.2	99	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	98	0.00
105	T	Benzo(a)anthracene	1.478	1.321	10.6	99	0.00
106	T	3,3'-Dichlorobenzidine	0.489	0.482	1.4	97	0.00
107	T	Chrysene	1.429	1.262	11.7	99	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.817	0.794	2.8	98	0.00
109	T	Di-n-octylphthalate	1.352	1.323	2.1	100	0.00
110	T	Benzo(b)fluoranthene	1.430	1.320	7.7	105	0.00
111	T	Benzo(k)fluoranthene	1.356	1.212	10.6	94	0.00
112	T	Benzo(a)pyrene	1.242	1.190	4.2	101	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	97	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.082	1.059	2.1	99	0.00
115	T	Dibenzo(a,h)anthracene	1.042	1.042	0.0	102	0.00
116	T	Benzo(ghi)perylene	0.964	0.989	-2.6	103	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNICV.D
Acq On : 25 Jun 2024 12:03 am
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939040,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 06:32:52 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.463	152	31737	4.000	ug/ml	0.00
Standard Area 1 = 34411			Recovery = 92.23%			
35) IS1_Naphthalene-d8	7.886	136	116701	4.000	ug/ml #	0.00
Standard Area 1 = 121176			Recovery = 96.31%			
63) IS1_Acenaphthene-d10	9.657	164	76011	4.000	ug/ml	0.00
Standard Area 1 = 79426			Recovery = 95.70%			
88) IS1_Phenanthrene-d10	11.092	188	173714	4.000	ug/ml	0.00
Standard Area 1 = 176143			Recovery = 98.62%			
104) IS1_Chrysene-d12	13.739	240	171631	4.000	ug/ml #	0.00
Standard Area 1 = 174707			Recovery = 98.24%			
113) IS1_Perylene-d12	15.215	264	190344	4.000	ug/ml	0.00
Standard Area 1 = 195526			Recovery = 97.35%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.557	112	42312	4.613	ug/ml	-0.01
Spiked Amount 2.000	Range 15 - 110		Recovery = 230.65%#			
7) Phenol-d6	6.092	99	58244	4.638	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 231.90%#			
19) Nitrobenzene-d5	7.116	82	59067	4.599	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 459.90%#			
46) 2-Fluorobiphenyl	9.016	172	136405	4.552	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 455.20%#			
79) 2,4,6-Tribromophenol	10.427	330	24098	5.087	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 254.35%#			
96) 4-Terphenyl-d14	12.680	244	214054	4.583	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 458.30%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.128	74	32356	4.791	ug/ml#	70
3) Pyridine	2.163	79	52962	4.794	ug/ml#	65
5) Aniline	6.051	93	73085	4.497	ug/ml	100
6) 2-Chlorophenol	6.198	128	47473	4.646	ug/ml	98
8) Phenol	6.104	94	61436	4.716	ug/ml	91
9) Bis(2-chloroethyl)ether	6.181	93	50154	4.688	ug/ml#	74
10) 1,3-Dichlorobenzene	6.386	146	55987	4.563	ug/ml	99
11) 1,4-Dichlorobenzene	6.481	146	58849	4.740	ug/ml	98
12) 1,2-Dichlorobenzene	6.663	146	54515	4.514	ug/ml	98
13) Benzyl alcohol	6.669	79	47507	4.724	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.845	45	81450	4.739	ug/ml#	59

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNICV.D
Acq On : 25 Jun 2024 12:03 am
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939040,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 06:32:52 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.839	108	43064	4.590	ug/ml	97
16) Hexachloroethane	7.051	117	22610	4.576	ug/ml#	48
17) n-Nitrosodi-n-propylamine	6.992	70	40232	4.798	ug/ml#	89
18) 3-Methylphenol/4-Methy...	7.028	108	47704	4.701	ug/ml	100
20) Nitrobenzene	7.139	77	60250	4.621	ug/ml	93
21) Isophorone	7.416	82	105479	4.816	ug/ml	94
22) 2-Nitrophenol	7.498	139	26262	4.785	ug/ml#	92
23) 2,4-Dimethylphenol	7.598	107	44685	4.327	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.692	93	66268	4.698	ug/ml	98
25) 2,4-Dichlorophenol	7.763	162	47496	4.855	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.845	180	54145	4.519	ug/ml	96
36) Naphthalene	7.910	128	148264	4.432	ug/ml	99
37) Benzoic Acid	7.686	105	35144	4.412	ug/ml	98
38) 4-Chloroaniline	7.992	65	22958	4.655	ug/ml	88
39) Hexachlorobutadiene	8.080	225	38426	4.352	ug/ml	99
40) p-Chloro-m-cresol	8.522	107	47677	4.769	ug/ml	96
41) 2-Methylnaphthalene	8.627	142	102902	4.615	ug/ml	94
42) 1-Methylnaphthalene	8.722	115	38995	4.606	ug/ml	84
43) Hexachlorocyclopentadiene	8.810	237	45649	4.661	ug/ml	99
44) 2,4,6-Trichlorophenol	8.927	196	41492	4.732	ug/ml	96
45) 2,4,5-Trichlorophenol	8.957	196	45219	4.816	ug/ml	98
47) 2-Chloronaphthalene	9.110	162	109202	4.606	ug/ml	96
48) 2-Nitroaniline	9.222	138	34832	4.876	ug/ml	98
49) 1,4-Dinitrobenzene	9.357	168	18421	4.900	ug/ml	88
50) 1,3-Dinitrobenzene	9.427	168	20889	4.876	ug/ml#	1
51) Dimethyl phthalate	9.427	163	138787	4.810	ug/ml#	99
52) Acenaphthylene	9.510	152	176343	4.859	ug/ml	100
53) 2,6-Dinitrotoluene	9.469	165	29955	4.822	ug/ml	89
54) 1,2-Dinitrobenzene	9.510	168	12362	4.666	ug/ml#	1
64) 3-Nitroaniline	9.622	138	31209	5.142	ug/ml	92
65) Acenaphthene	9.686	154	101856	4.650	ug/ml	90
66) 2,4-Dinitrophenol	9.727	184	19408	4.789	ug/ml	91
67) Dibenzofuran	9.857	168	167081	4.541	ug/ml	98
68) 2,4-Dinitrotoluene	9.857	165	42694	4.732	ug/ml	94
69) 4-Nitrophenol	9.816	65	30360	4.940	ug/ml#	84
70) 2,3,5,6-Tetrachlorophenol	9.945	232	43280	5.037	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	9.992	232	42390	5.129	ug/ml	98
72) Diethyl phthalate	10.122	149	138268	4.757	ug/ml	99
73) Fluorene	10.192	166	134876	4.662	ug/ml	94
74) 4-Chlorophenyl phenyl ...	10.210	204	71803	4.715	ug/ml	88

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNICV.D
Acq On : 25 Jun 2024 12:03 am
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939040,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 06:32:52 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	4-Nitroaniline	10.216	138	30300	4.795	ug/ml#	88
76)	4,6-Dinitro-o-cresol	10.251	198	27327	5.403	ug/ml#	65
77)	NDPA/DPA	10.327	169	113489	4.730	ug/ml	96
78)	Azobenzene	10.357	77	130690	4.756	ug/ml	95
80)	4-Bromophenyl phenyl e...	10.680	248	44914	4.727	ug/ml#	86
81)	Hexachlorobenzene	10.733	284	49006	4.535	ug/ml#	81
82)	Pentachlorophenol	10.927	266	35912	5.232	ug/ml	96
89)	Phenanthrene	11.116	178	214102	4.413	ug/ml	99
90)	Anthracene	11.169	178	222491	4.612	ug/ml	99
91)	Carbazole	11.333	167	204021	4.616	ug/ml	99
92)	Di-n-butylphthalate	11.727	149	246456	4.748	ug/ml	100
93)	Fluoranthene	12.274	202	270824	4.566	ug/ml#	91
94)	Benzidine	12.427	184	161127	5.004	ug/ml#	94
95)	Pyrene	12.492	202	288357	4.612	ug/ml	99
97)	Butyl benzyl phthalate	13.210	149	109619	4.588	ug/ml	95
105)	Benzo(a)anthracene	13.733	228	283411	4.469	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.733	252	103514	4.933	ug/ml#	96
107)	Chrysene	13.768	228	270744	4.416	ug/ml	100
108)	Bis(2-ethylhexyl)phtha...	13.851	149	170402	4.860	ug/ml#	95
109)	Di-n-octylphthalate	14.533	149	283833	4.891	ug/ml#	75
110)	Benzo(b)fluoranthene	14.845	252	283245	4.615	ug/ml#	92
111)	Benzo(k)fluoranthene	14.868	252	259962	4.468	ug/ml#	91
112)	Benzo(a)pyrene	15.156	252	255240	4.791	ug/ml#	90
114)	Indeno(1,2,3-cd)pyrene	16.198	276	251892M6	4.892	ug/mL	
115)	Dibenzo(a,h)anthracene	16.227	278	248022	5.004	ug/ml#	87
116)	Benzo(ghi)perylene	16.456	276	235381	5.131	ug/ml#	82

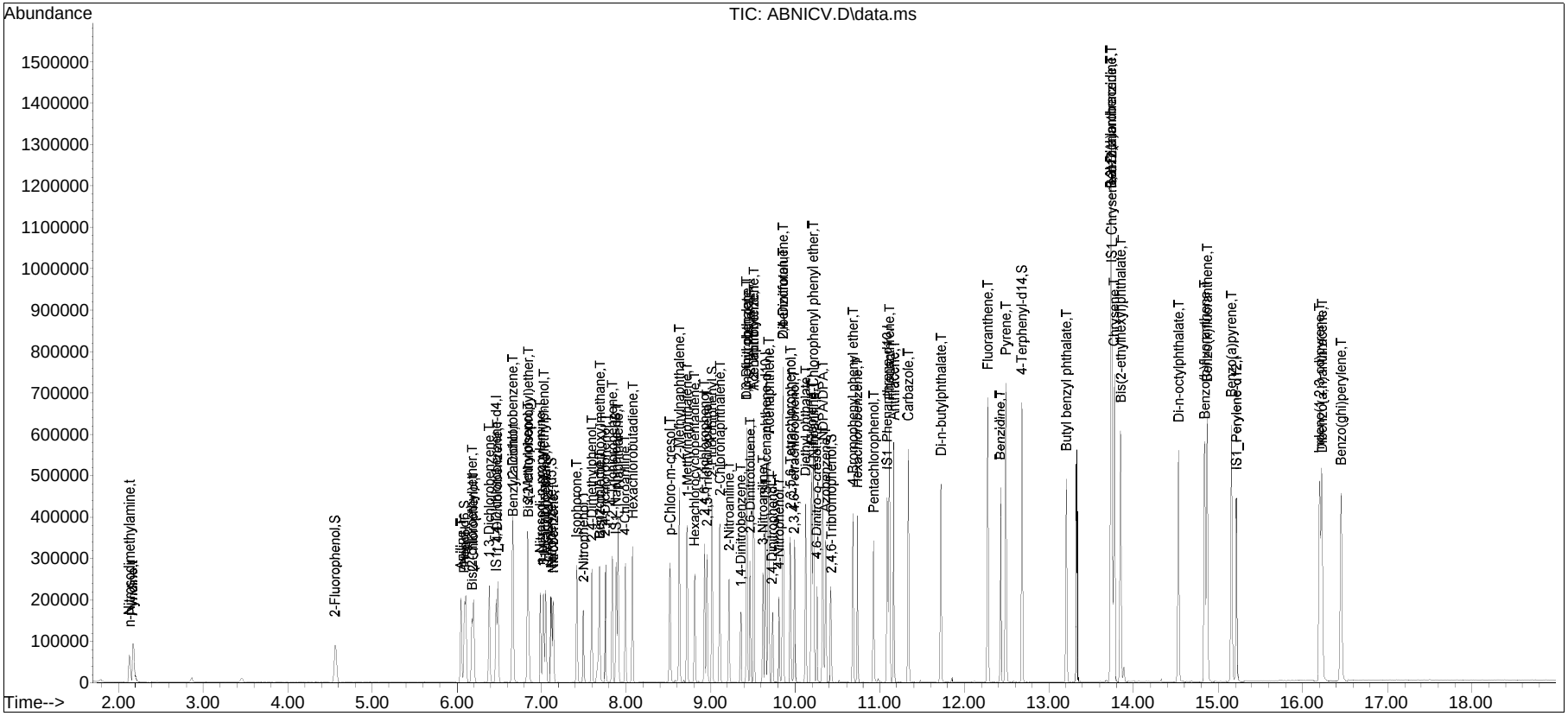
(#) = qualifier out of range (m) = manual integration (+) = signals summed

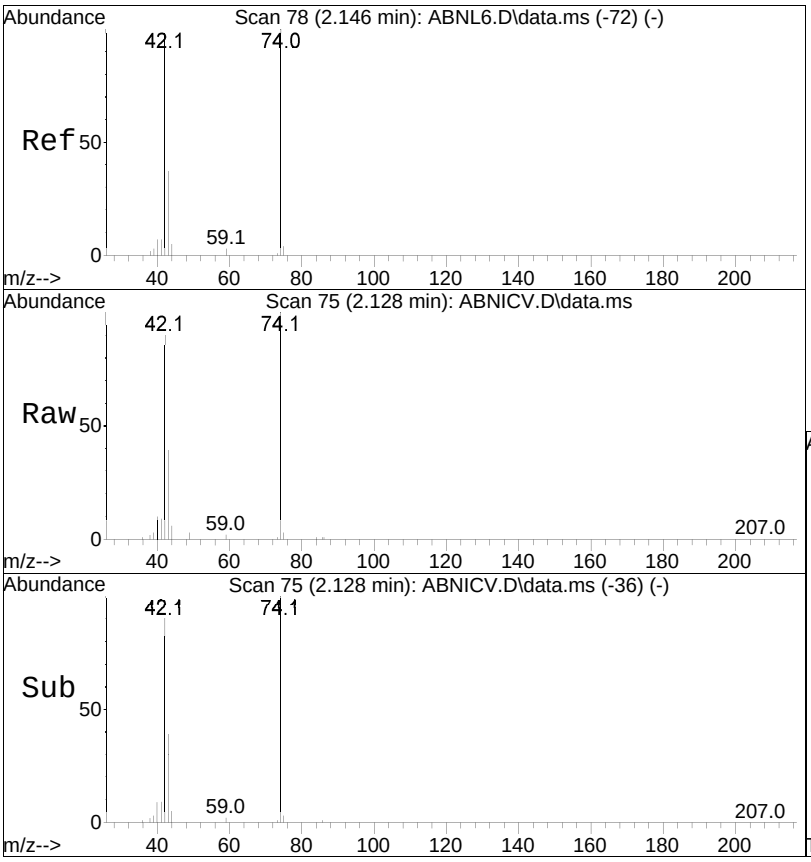
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ABNICV.D
Acq On : 25 Jun 2024 12:03 am
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10805
Misc : WG1939040,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 06:32:52 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistTical\ABNL6.D•

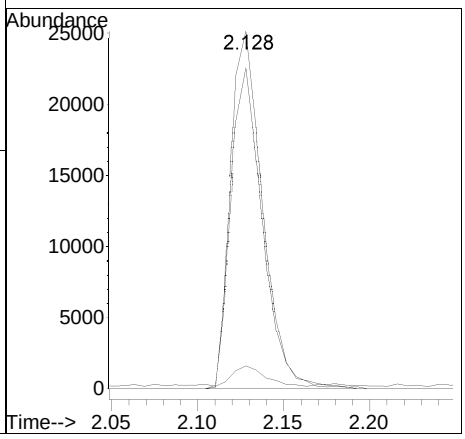


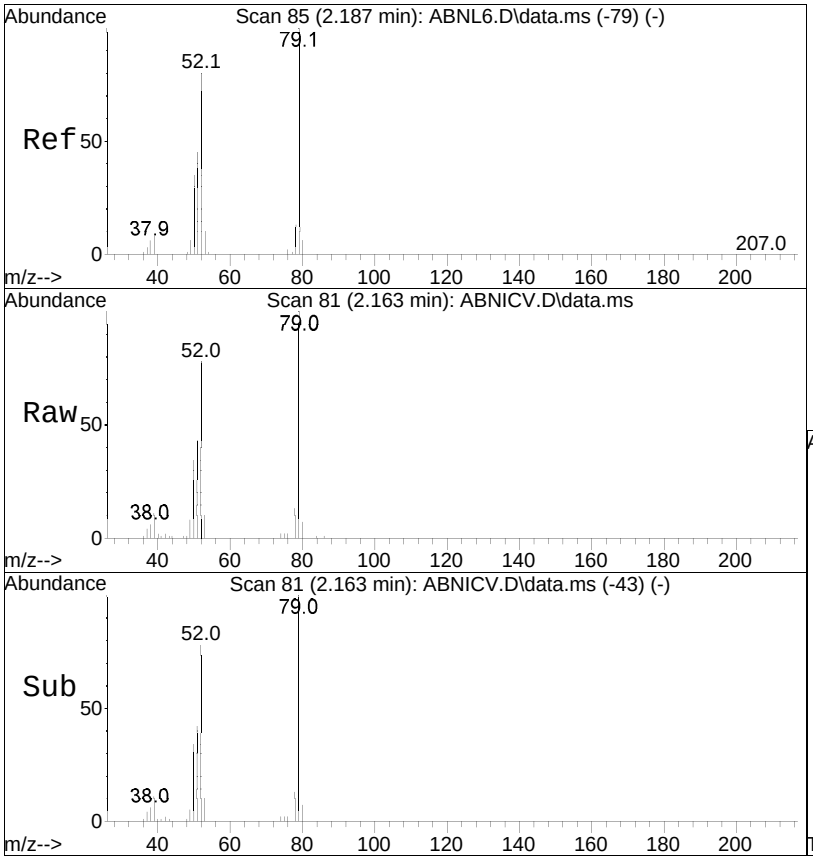


#2
n-Nitrosodimethylamine
Concen: 4.79 ug/ml
RT: 2.128 min Scan# 75
Delta R.T. -0.018 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 74 Resp: 32356

Ion	Ratio	Lower	Upper
74	100		
42	89.0	100.0	150.0#
44	5.8	6.7	10.1#

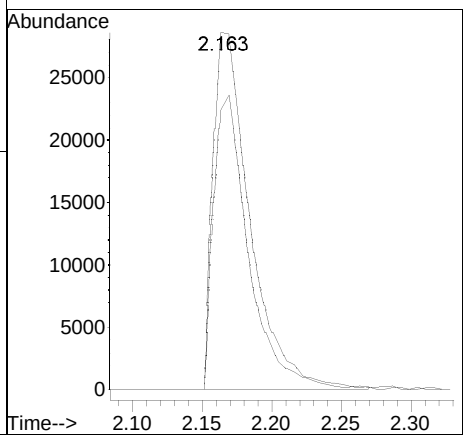


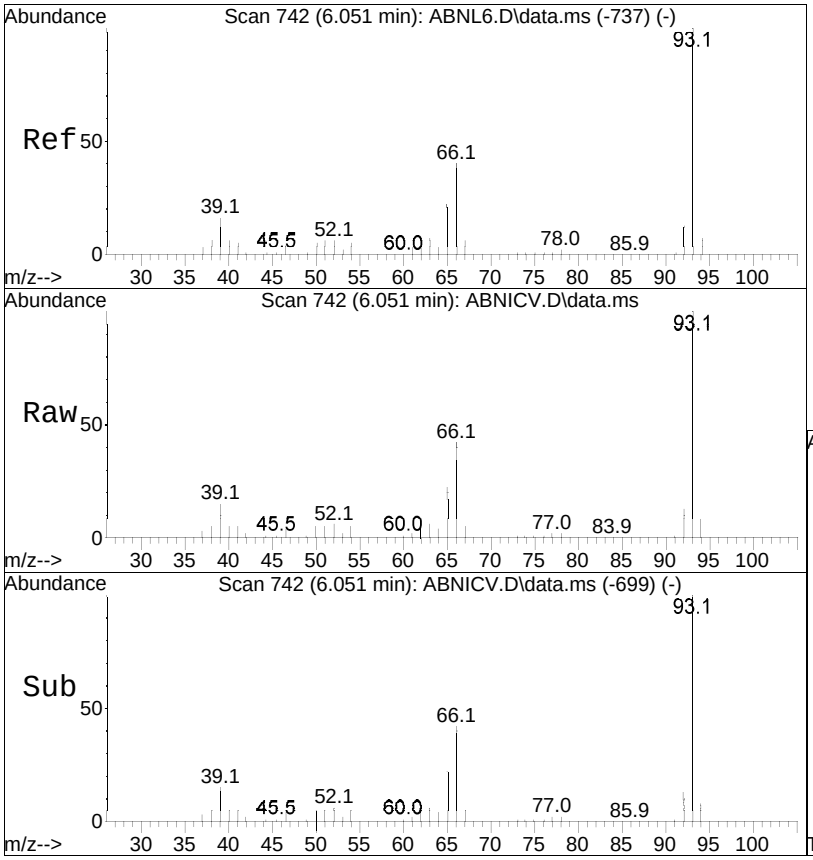


#3
Pyridine
Concen: 4.79 ug/ml
RT: 2.163 min Scan# 81
Delta R.T. -0.024 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 79 Resp: 52962

Ion	Ratio	Lower	Upper
79	100		
52	77.8	93.1	139.7#

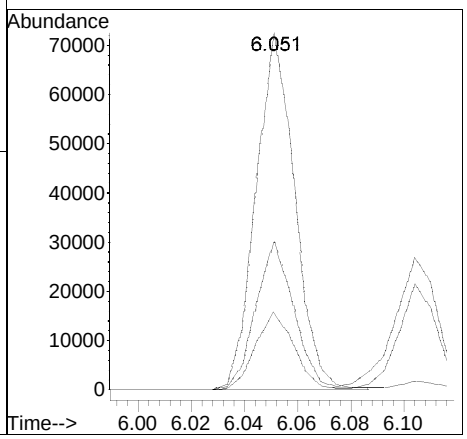


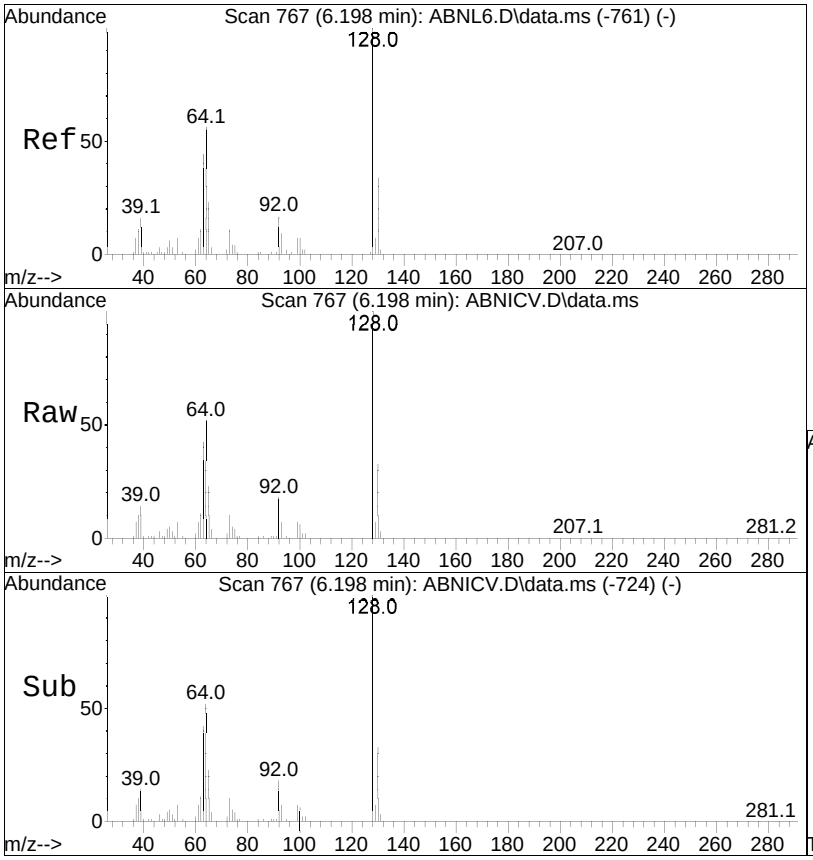


#5
Aniline
Concen: 4.50 ug/ml
RT: 6.051 min Scan# 742
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 93 Resp: 73085

Ion	Ratio	Lower	Upper
93	100		
66	41.1	32.6	49.0
65	21.8	17.6	26.4

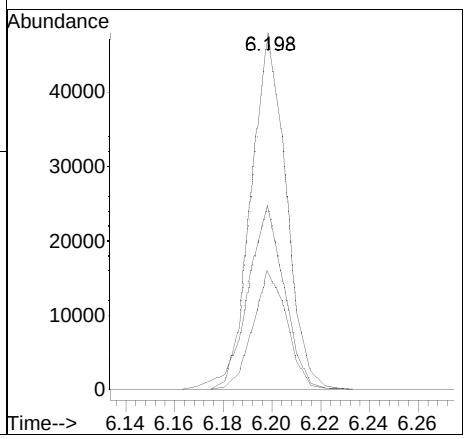


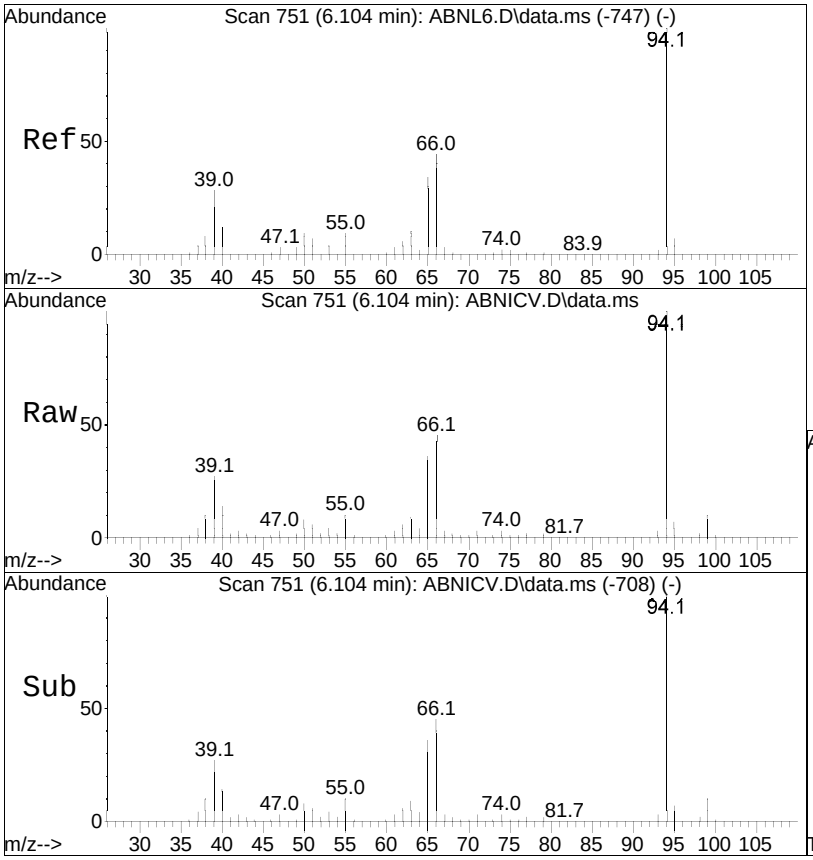


#6
2-Chlorophenol
Concen: 4.65 ug/ml
RT: 6.198 min Scan# 767
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:128 Resp: 47473

Ion	Ratio	Lower	Upper
128	100		
64	54.7	45.1	67.7
130	32.8	26.2	39.4

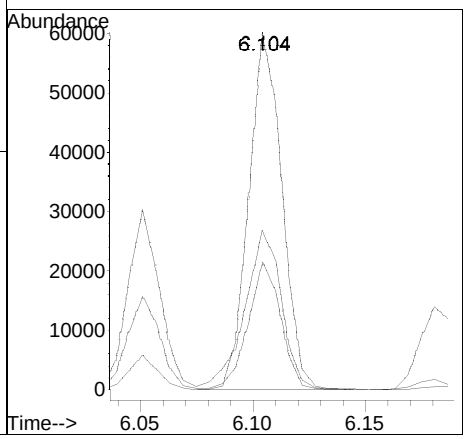


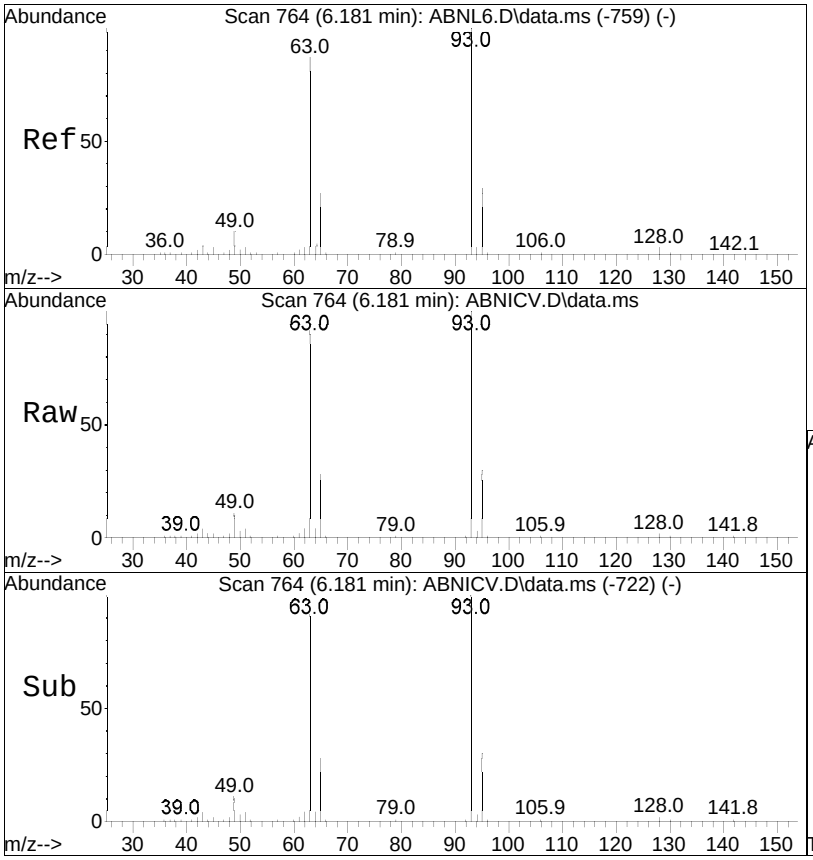


#8
Phenol
Concen: 4.72 ug/ml
RT: 6.104 min Scan# 751
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 94 Resp: 61436

Ion	Ratio	Lower	Upper
94	100		
65	35.7	26.0	39.0
66	50.0	33.8	50.8

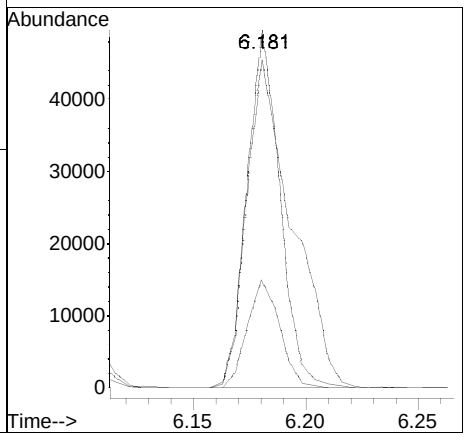


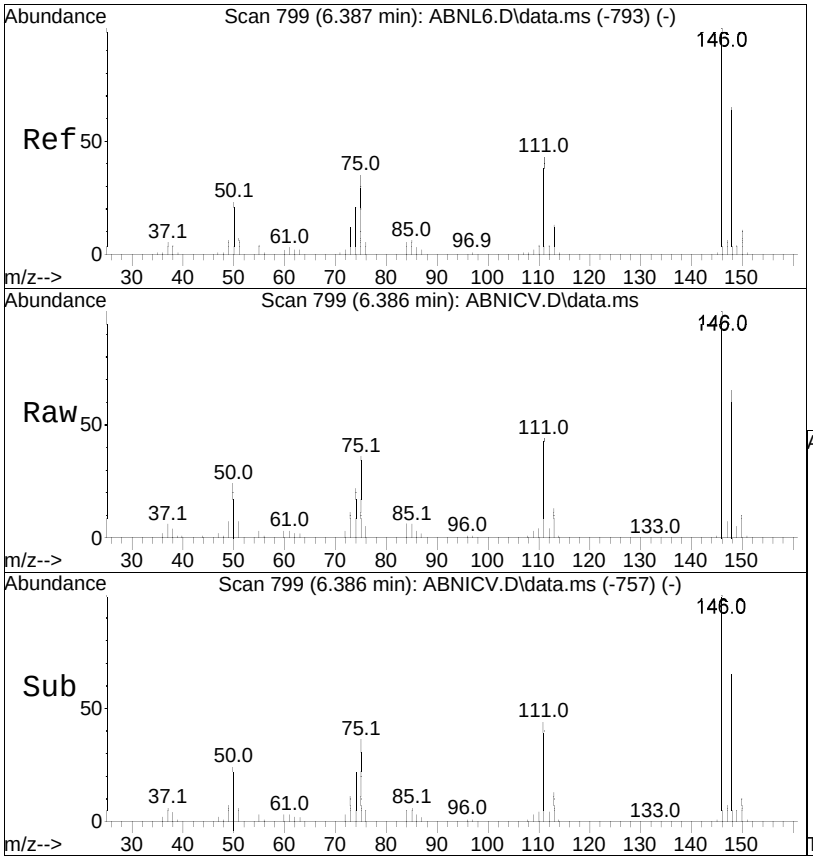


#9
Bis(2-chloroethyl)ether
Concen: 4.69 ug/ml
RT: 6.181 min Scan# 764
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 93 Resp: 50154

Ion	Ratio	Lower	Upper
93	100		
63	125.7	74.6	111.8#
95	29.8	25.9	38.9

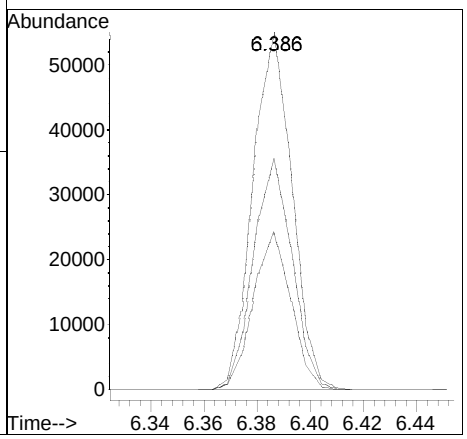


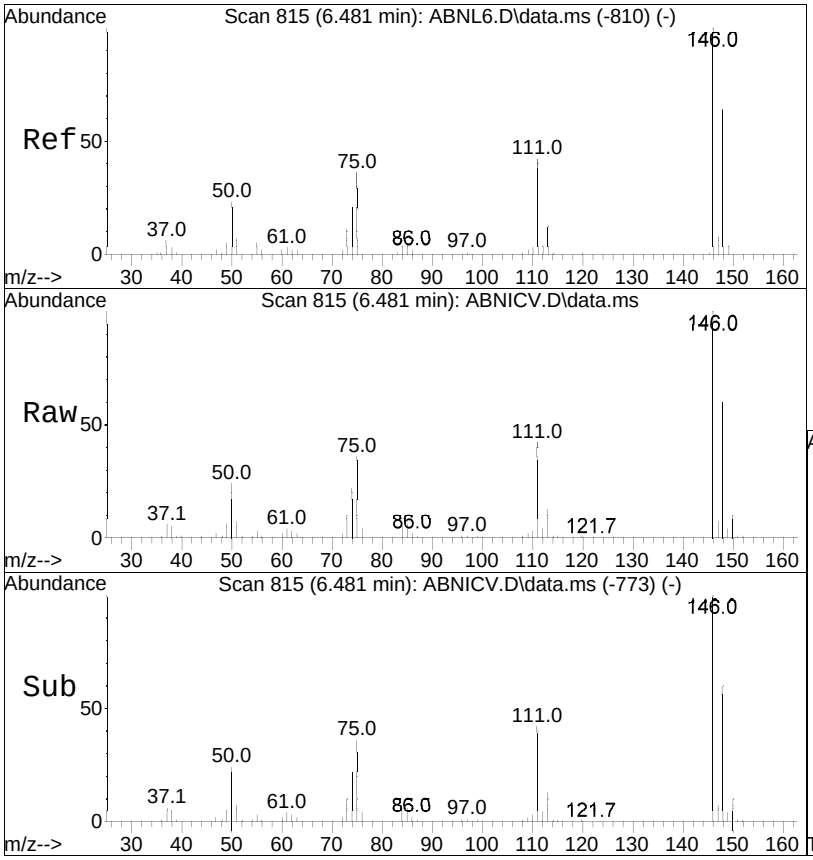


#10
1,3-Dichlorobenzene
Concen: 4.56 ug/ml
RT: 6.386 min Scan# 799
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:146 Resp: 55987

Ion	Ratio	Lower	Upper
146	100		
111	42.9	34.3	51.5
148	64.2	50.8	76.2

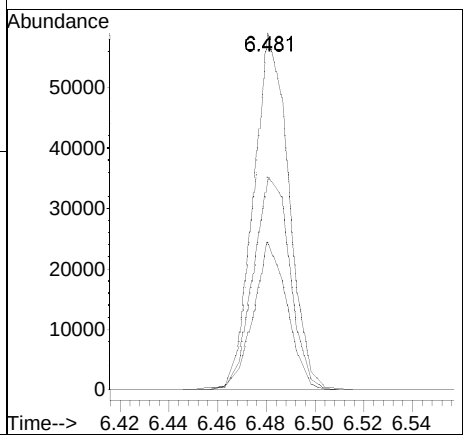


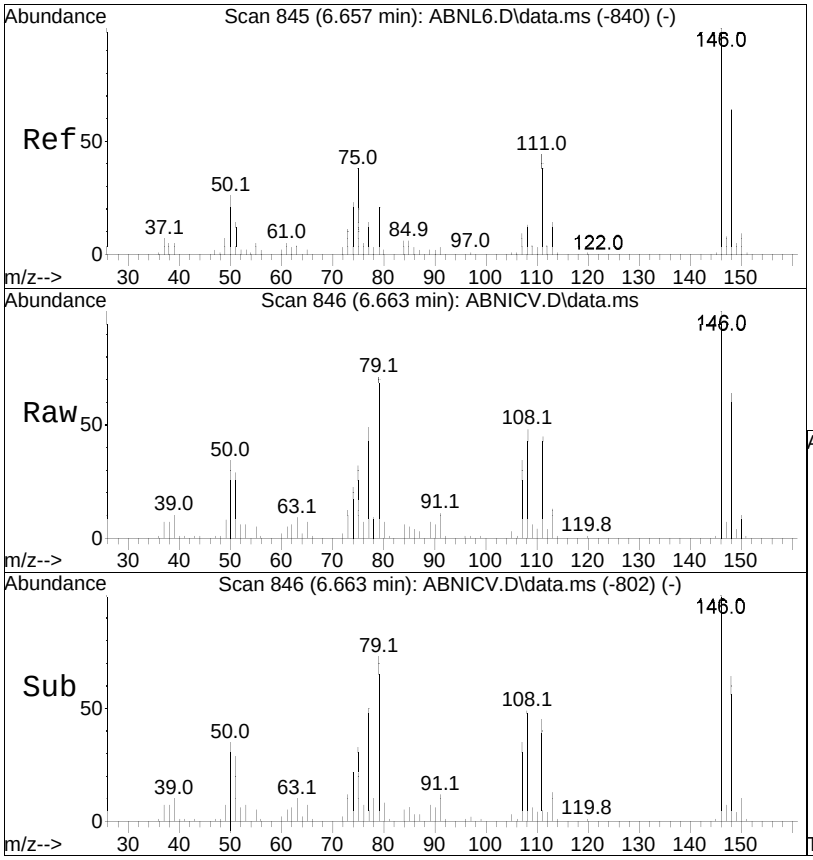


#11
1,4-Dichlorobenzene
Concen: 4.74 ug/ml
RT: 6.481 min Scan# 815
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:146 Resp: 58849

Ion	Ratio	Lower	Upper
146	100		
148	62.1	50.7	76.1
111	40.3	33.4	50.0

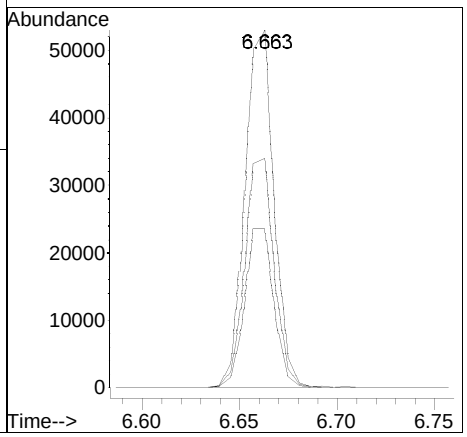


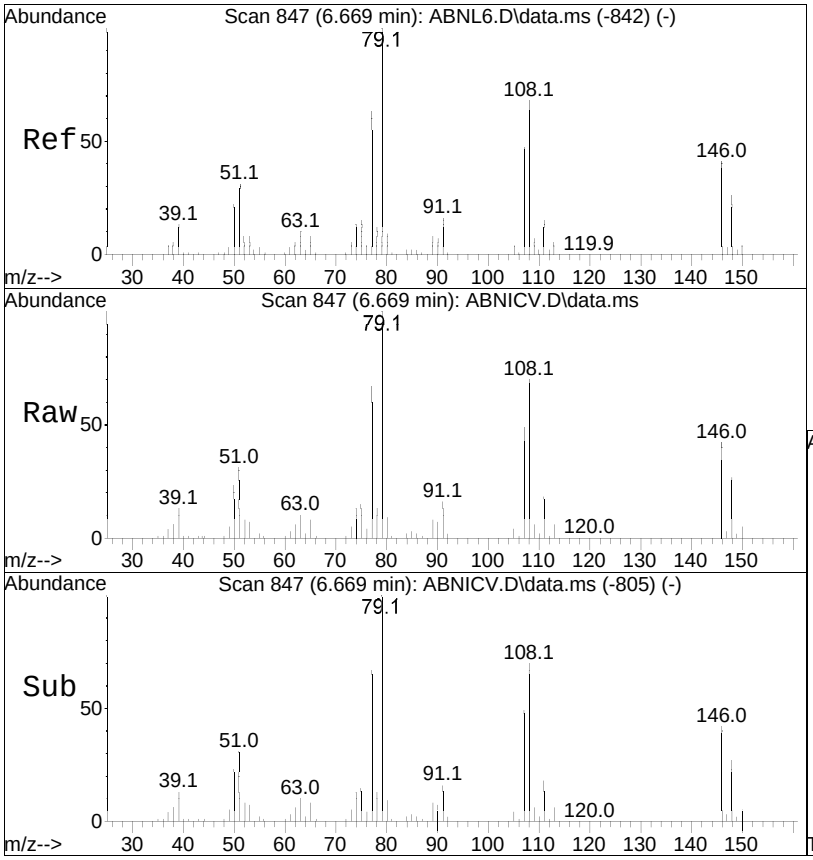


#12
1,2-Dichlorobenzene
Concen: 4.51 ug/ml
RT: 6.663 min Scan# 846
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:146 Resp: 54515

Ion	Ratio	Lower	Upper
146	100		
111	44.8	34.6	52.0
148	64.5	50.2	75.4

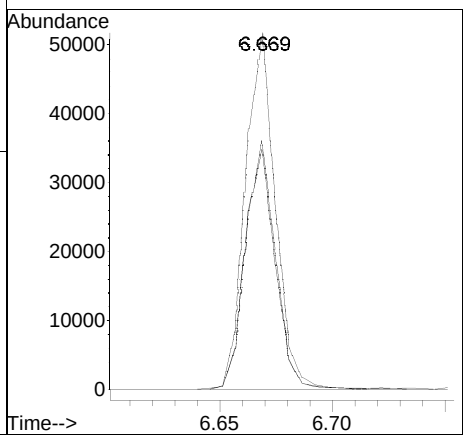


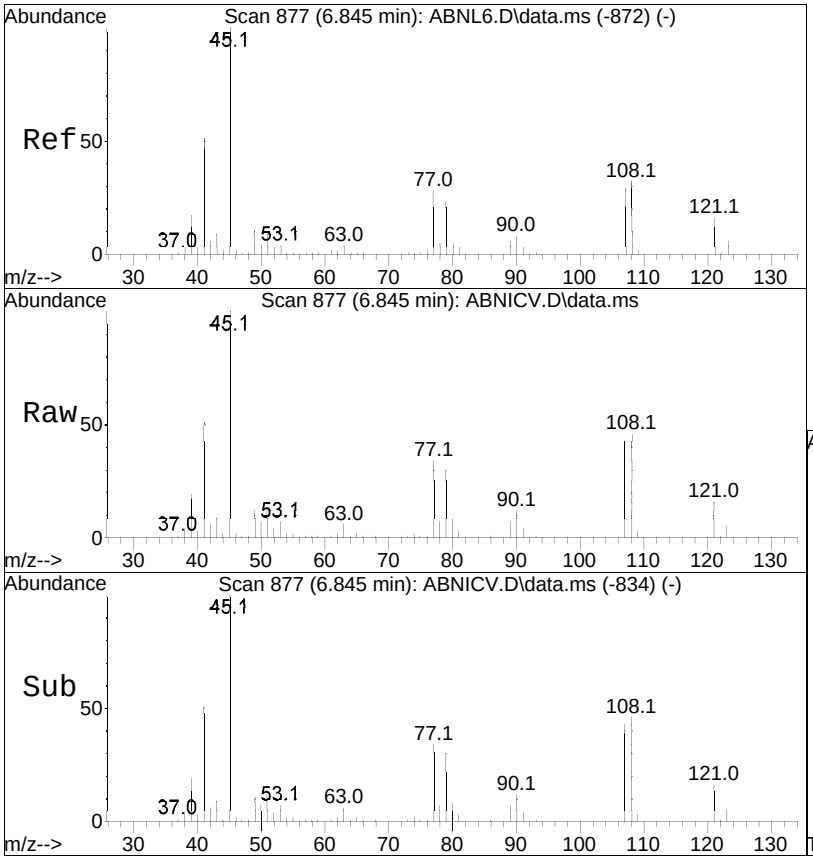


#13
Benzyl alcohol
Concen: 4.72 ug/ml
RT: 6.669 min Scan# 847
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 79 Resp: 47507

Ion	Ratio	Lower	Upper
79	100		
77	68.0	54.9	82.3
108	69.6	63.1	94.7

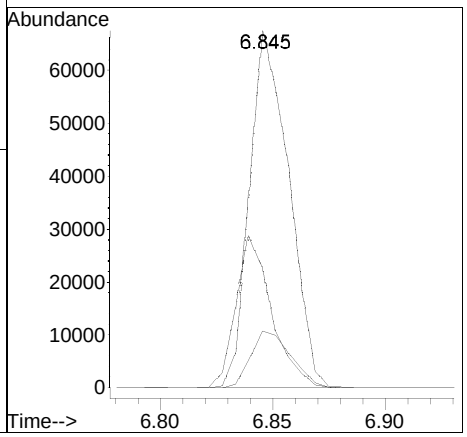


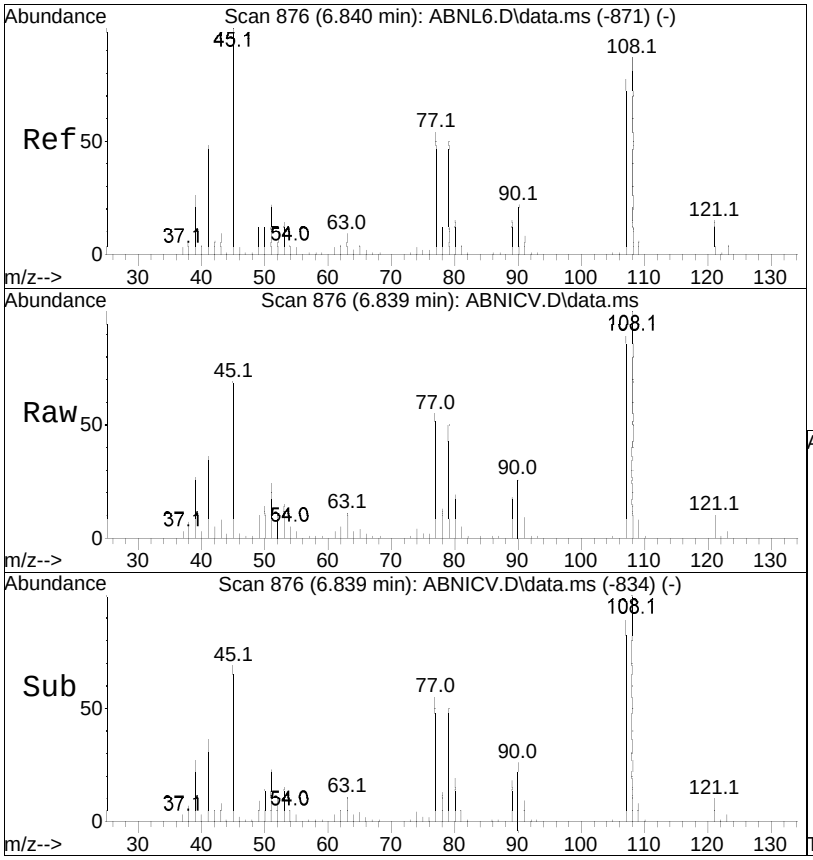


#14
Bis(2-chloroisopropyl)ether
Concen: 4.74 ug/ml
RT: 6.845 min Scan# 877
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 45 Resp: 81450

Ion	Ratio	Lower	Upper
45	100		
121	16.2	9.8	14.6#
77	39.0	6.1	9.1#

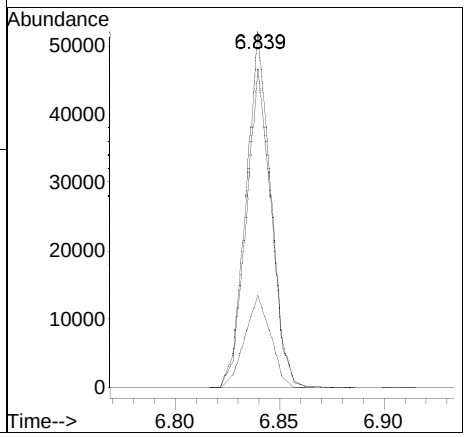


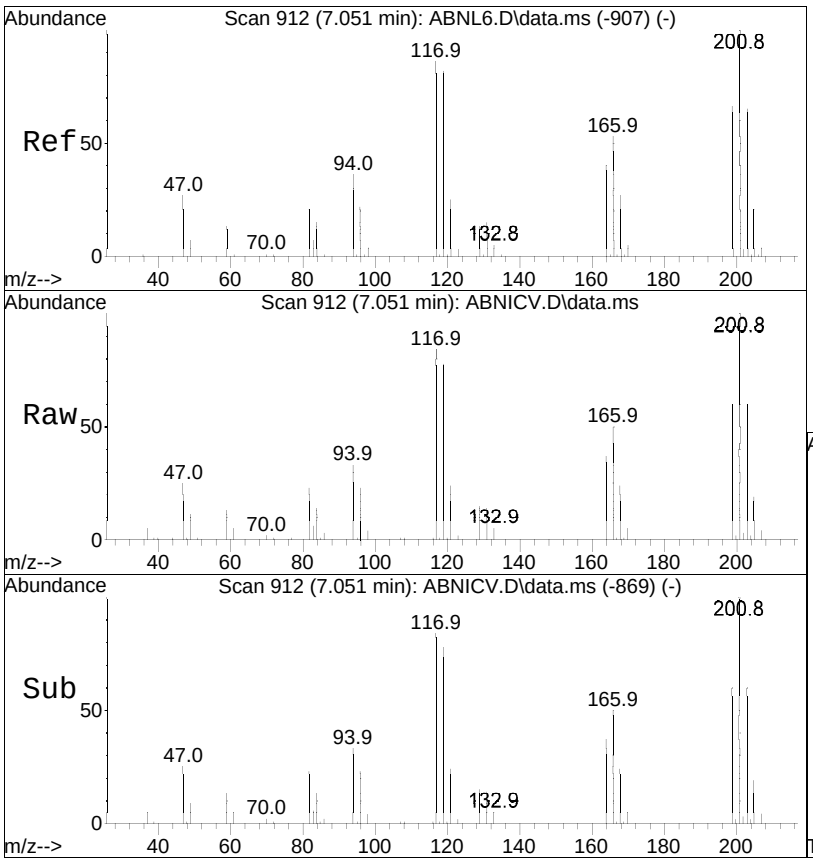


#15
2-Methylphenol
Concen: 4.59 ug/ml
RT: 6.839 min Scan# 876
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:108 Resp: 43064

Ion	Ratio	Lower	Upper
108	100		
107	90.4	70.7	106.1
90	26.9	18.7	28.1

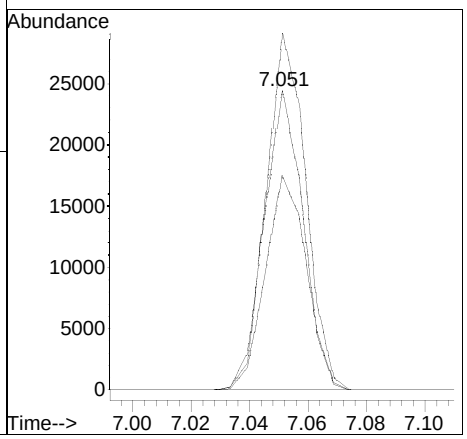


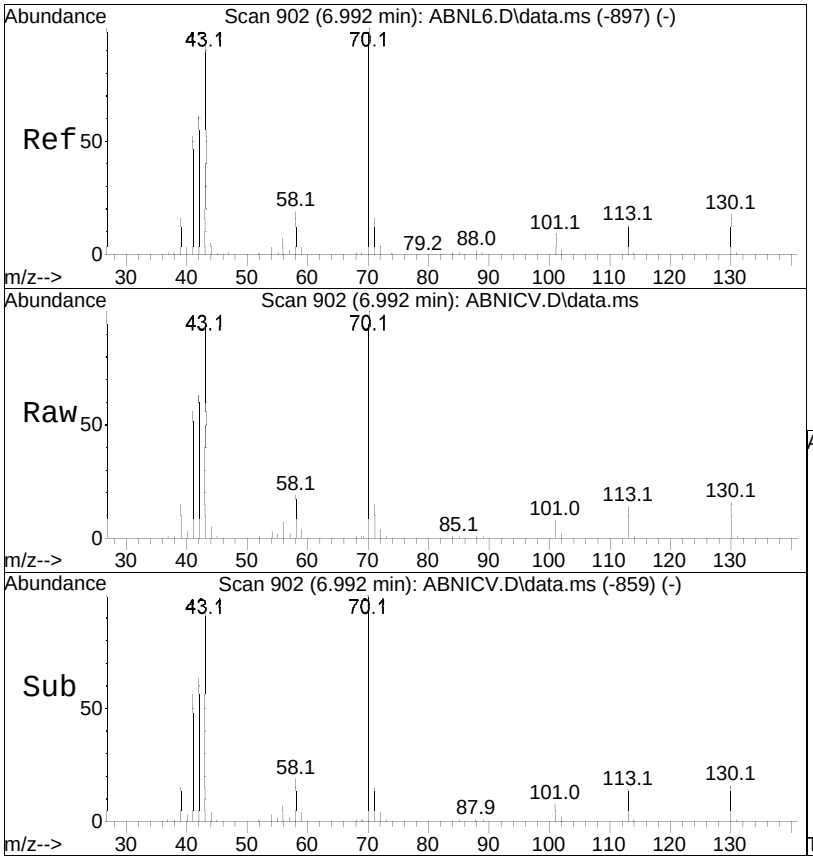


#16
Hexachloroethane
Concen: 4.58 ug/ml
RT: 7.051 min Scan# 912
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:117 Resp: 22610

Ion	Ratio	Lower	Upper
117	100		
201	121.0	58.6	87.8#
199	75.5	36.9	55.3#

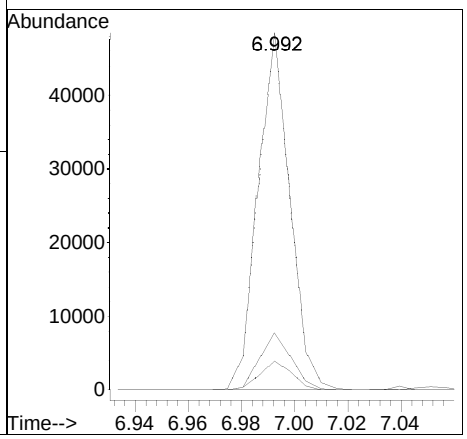


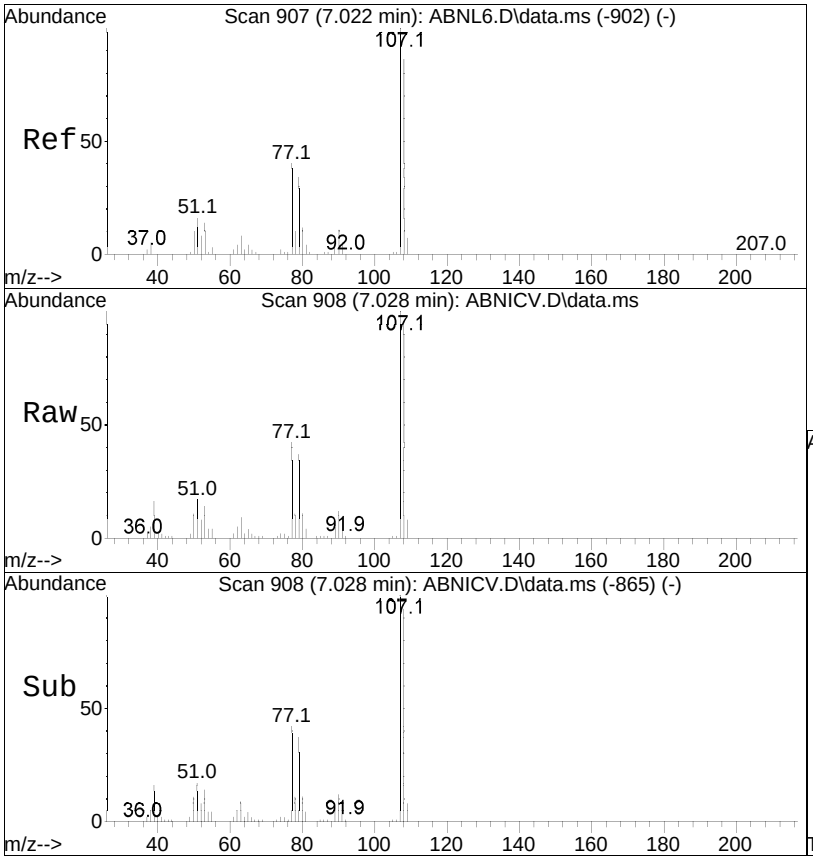


#17
n-Nitrosodi-n-propylamine
Concen: 4.80 ug/ml
RT: 6.992 min Scan# 902
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 70 Resp: 40232

Ion	Ratio	Lower	Upper
70	100		
130	15.9	18.2	27.4#
101	8.1	7.8	11.8

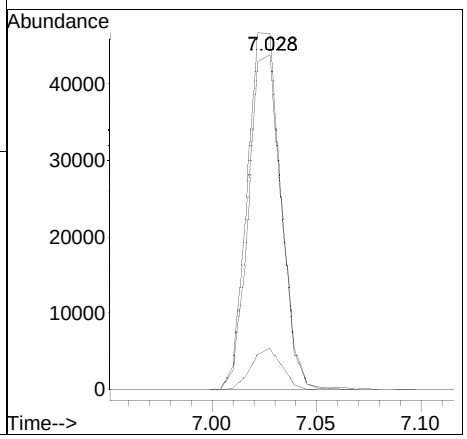


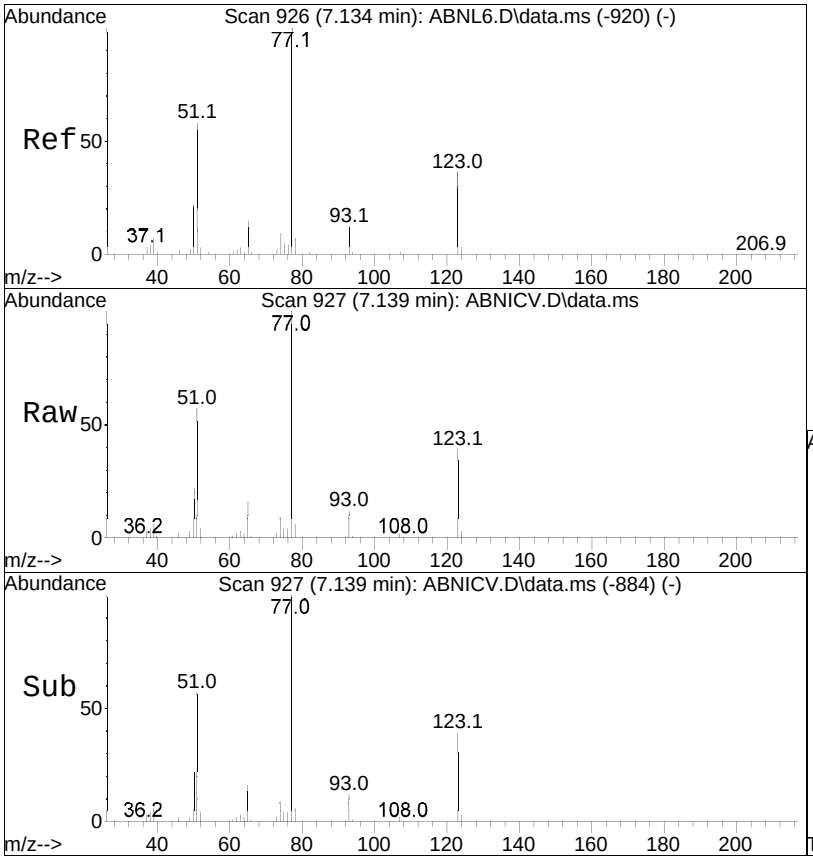


#18
3-Methylphenol/4-Methylphenol
Concen: 4.70 ug/ml
RT: 7.028 min Scan# 908
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:108 Resp: 47704

Ion	Ratio	Lower	Upper
108	100		
107	110.4	88.6	132.8
90	11.8	8.8	13.2

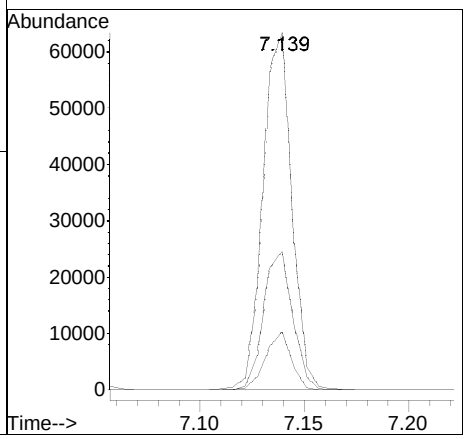


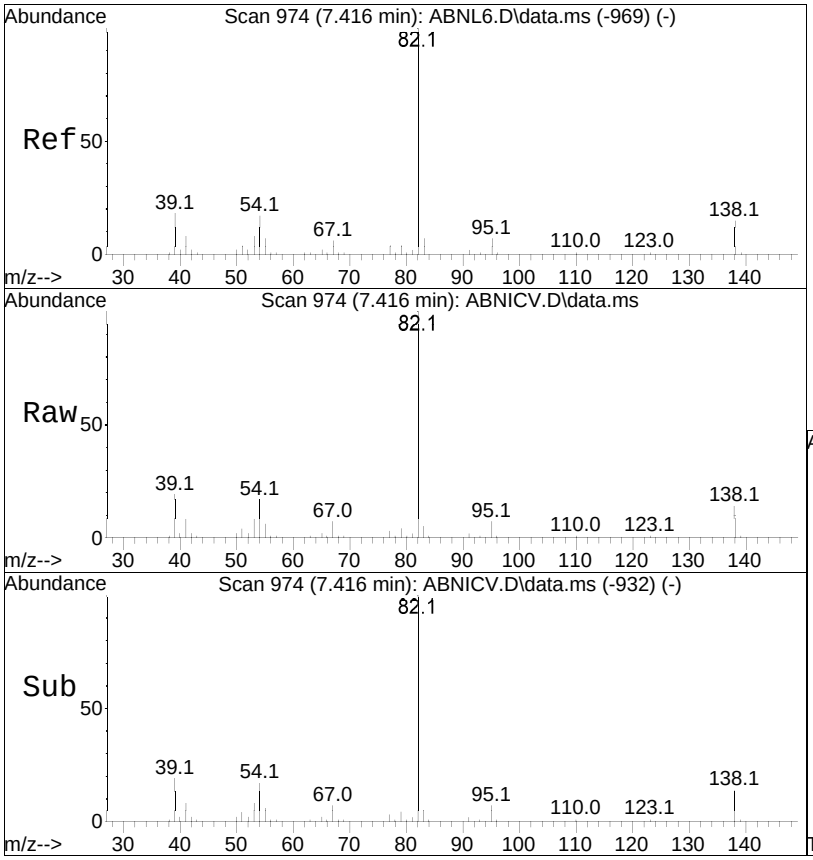


#20
Nitrobenzene
Concen: 4.62 ug/ml
RT: 7.139 min Scan# 927
Delta R.T. 0.005 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 77 Resp: 60250

Ion	Ratio	Lower	Upper
77	100		
123	39.2	36.3	54.5
65	14.6	11.6	17.4

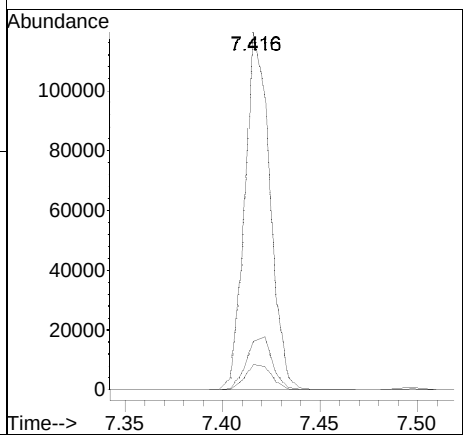


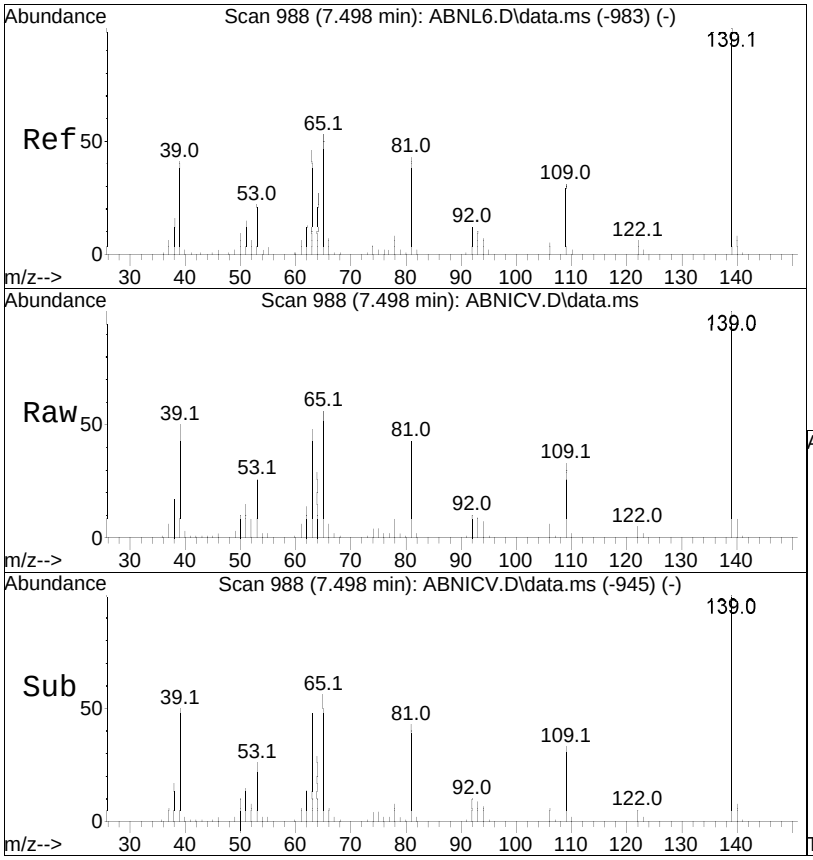


#21
Isophorone
Concen: 4.82 ug/ml
RT: 7.416 min Scan# 974
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 82 Resp: 105479

Ion	Ratio	Lower	Upper
82	100		
138	15.3	14.7	22.1
95	7.5	5.2	7.8

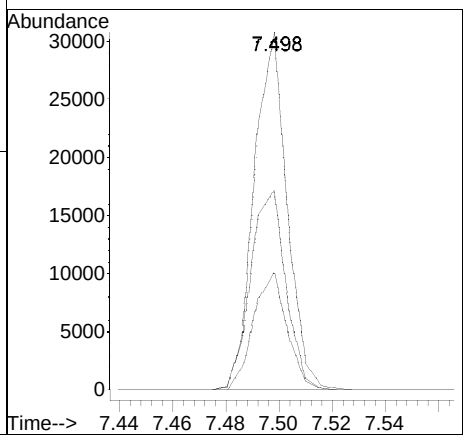


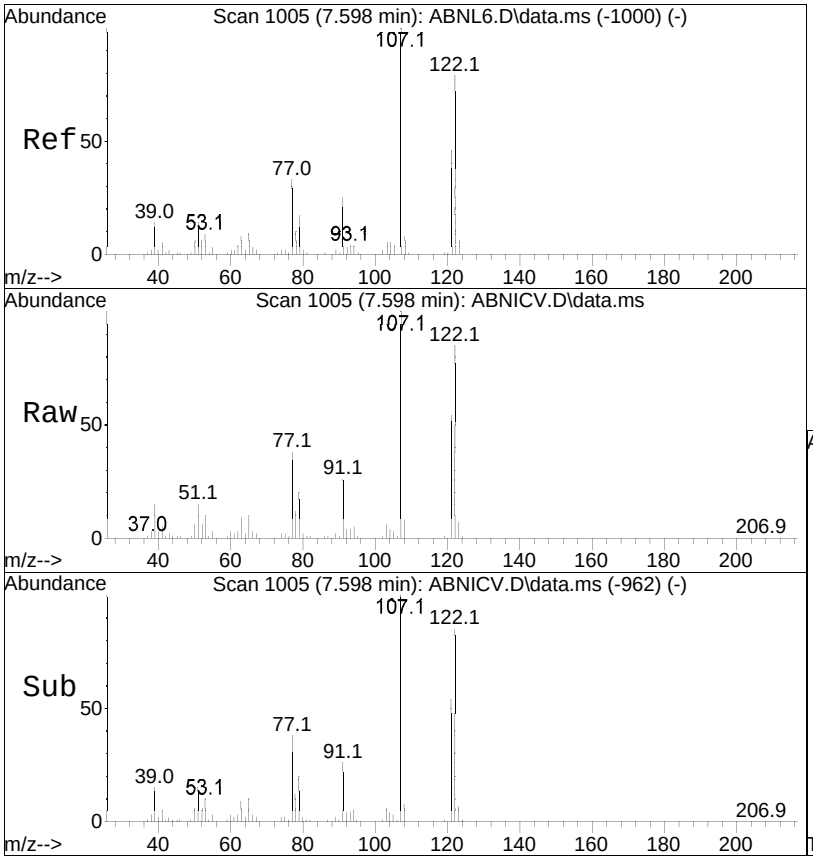


#22
2-Nitrophenol
Concen: 4.78 ug/ml
RT: 7.498 min Scan# 988
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:139 Resp: 26262

Ion	Ratio	Lower	Upper
139	100		
109	33.8	19.4	29.0#
65	60.1	46.1	69.1

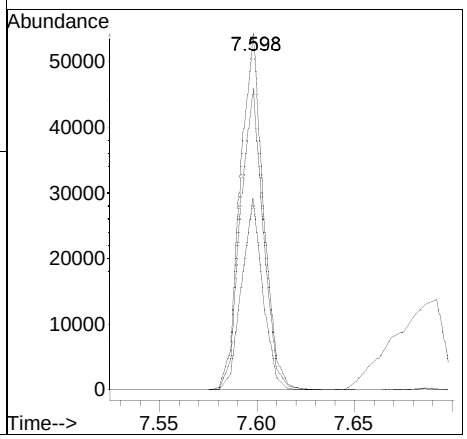


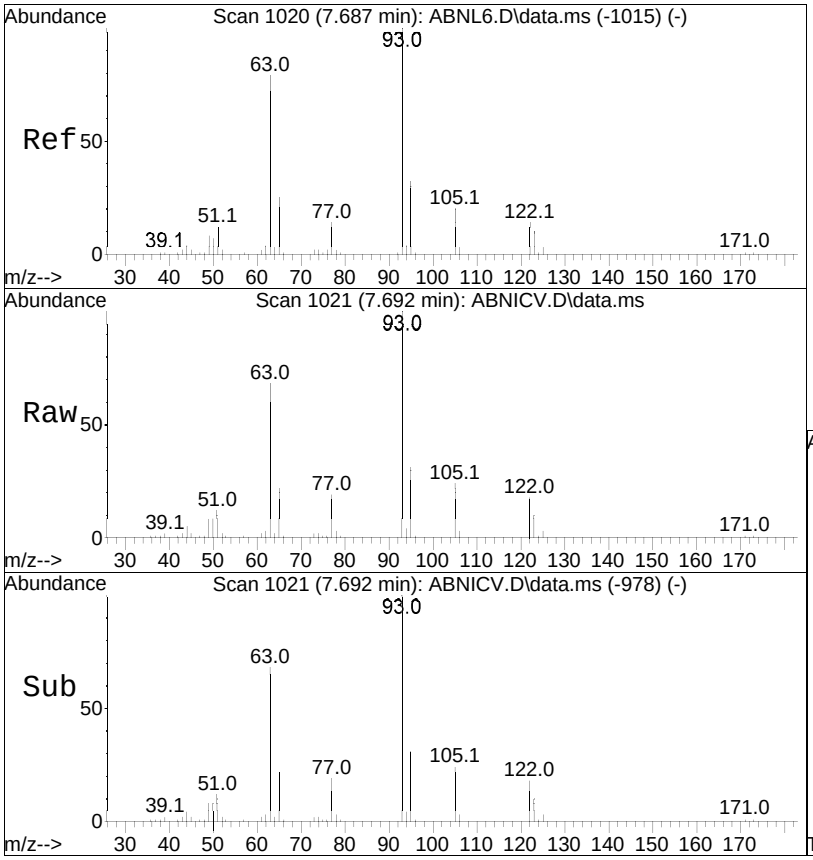


#23
2,4-Dimethylphenol
Concen: 4.33 ug/ml
RT: 7.598 min Scan# 1005
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:107 Resp: 44685

Ion	Ratio	Lower	Upper
107	100		
121	49.3	40.0	60.0
122	83.2	70.2	105.4

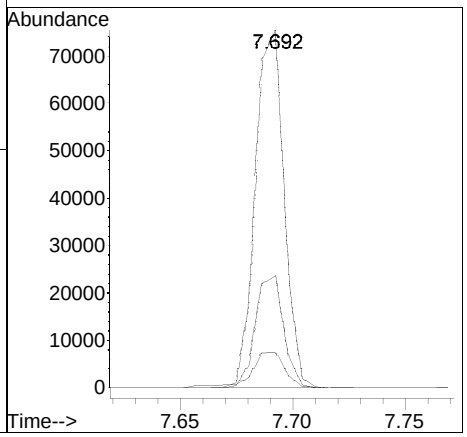


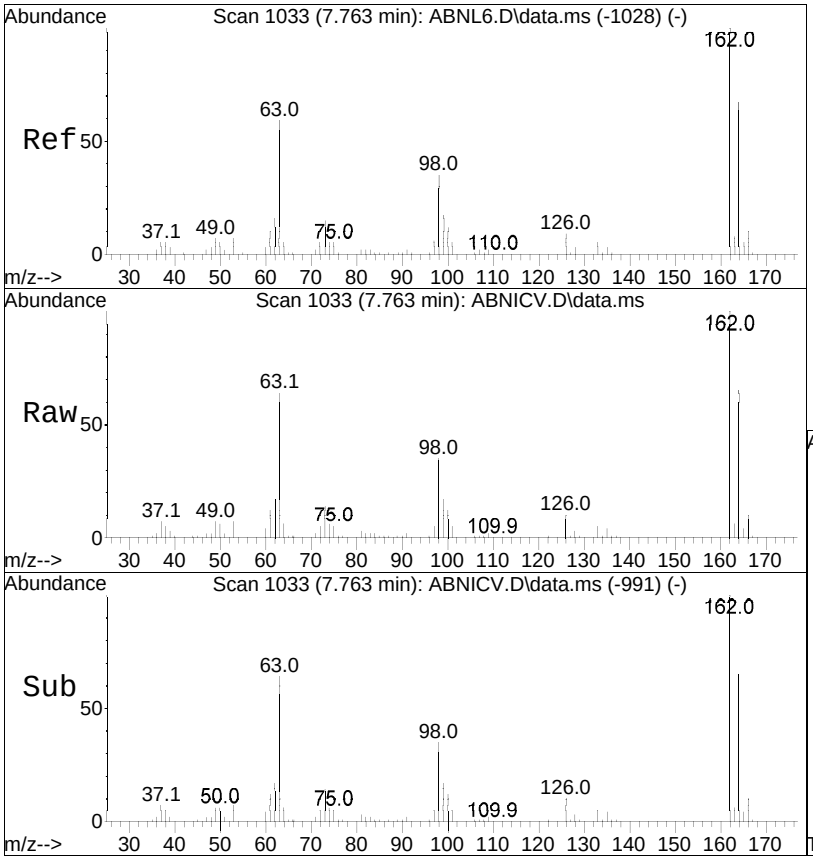


#24
Bis(2-chloroethoxy)methane
Concen: 4.70 ug/ml
RT: 7.692 min Scan# 1021
Delta R.T. 0.005 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 93 Resp: 66268

Ion	Ratio	Lower	Upper
93	100		
95	31.0	25.8	38.8
123	12.0	10.1	15.1

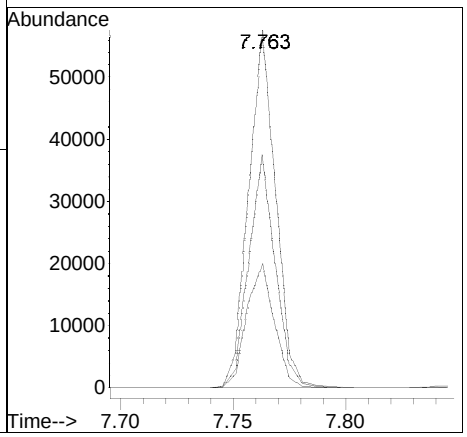


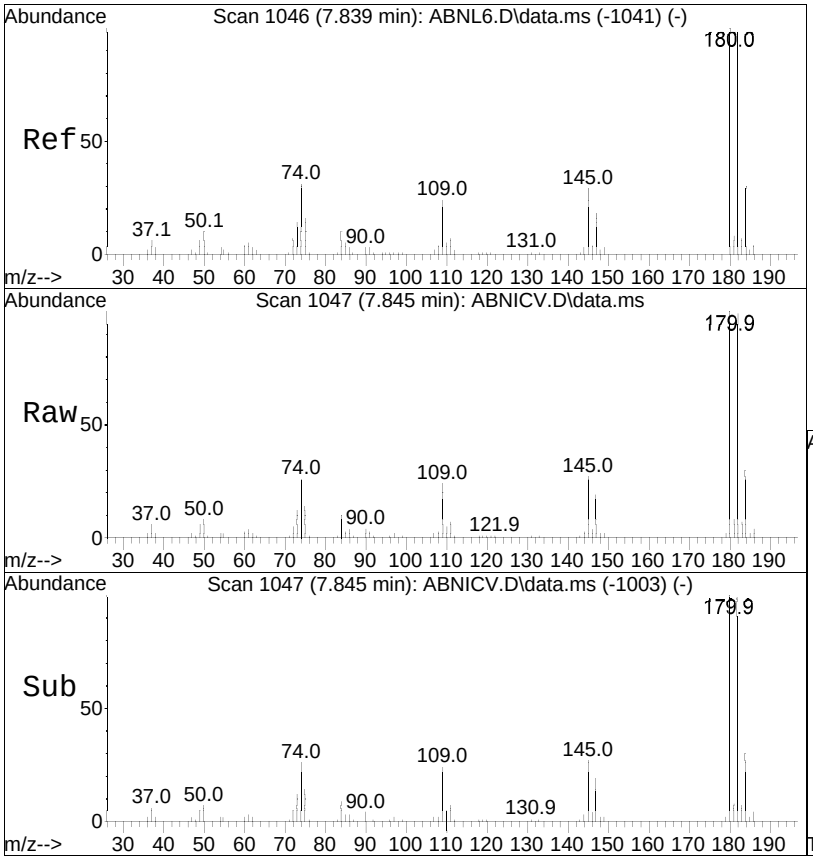


#25
2,4-Dichlorophenol
Concen: 4.86 ug/ml
RT: 7.763 min Scan# 1033
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:162 Resp: 47496

Ion	Ratio	Lower	Upper
162	100		
164	63.6	51.0	76.4
98	35.5	32.2	48.2

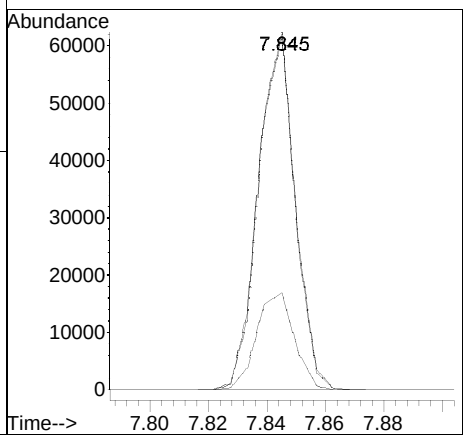


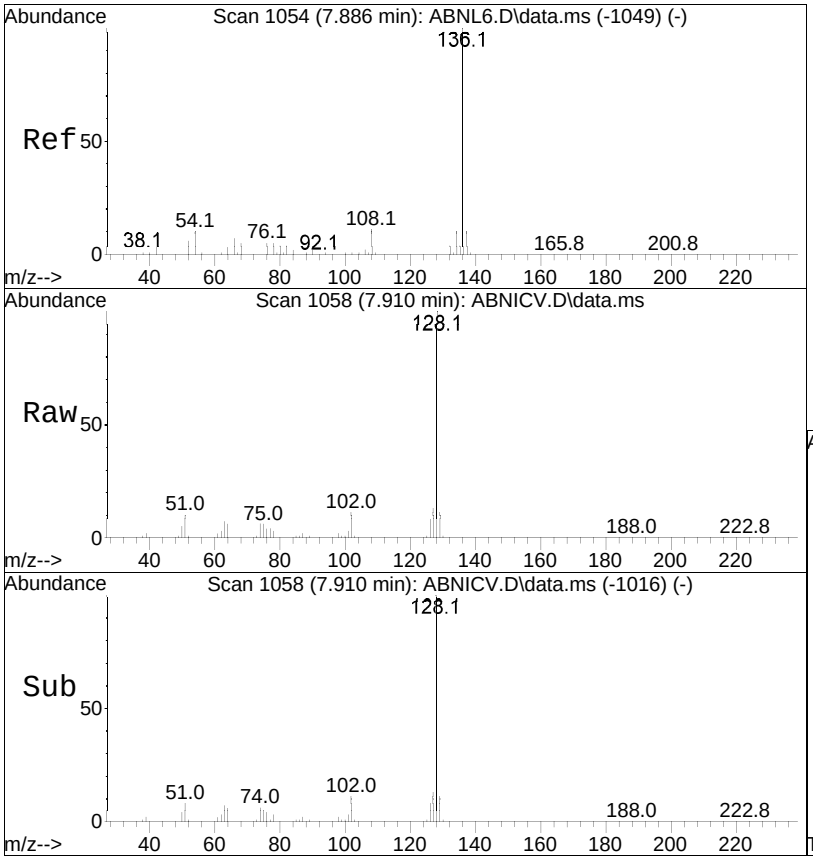


#26
1,2,4-Trichlorobenzene
Concen: 4.52 ug/ml
RT: 7.845 min Scan# 1047
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:180 Resp: 54145

Ion	Ratio	Lower	Upper
180	100		
182	97.5	76.0	114.0
145	28.0	25.7	38.5

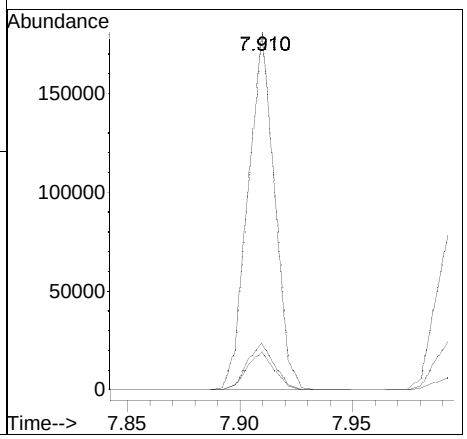


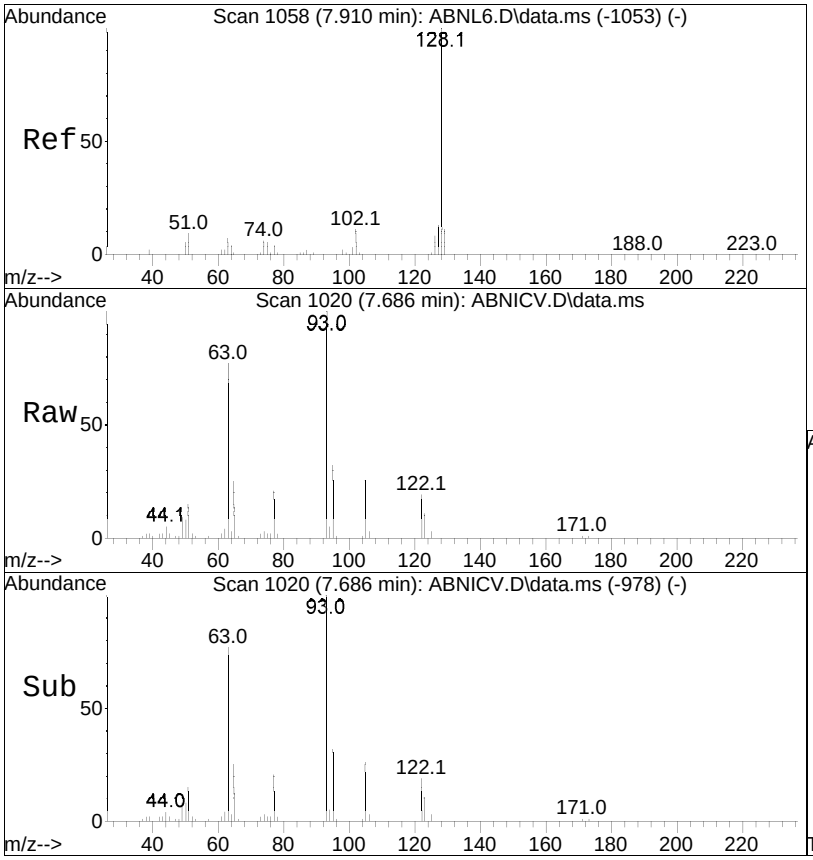


#36
Naphthalene
Concen: 4.43 ug/ml
RT: 7.910 min Scan# 1058
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:128 Resp: 148264

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.4	10.3	15.5

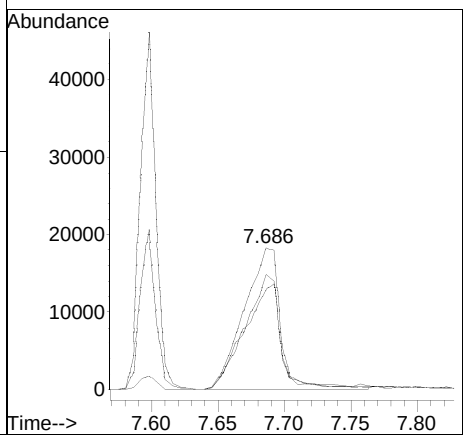


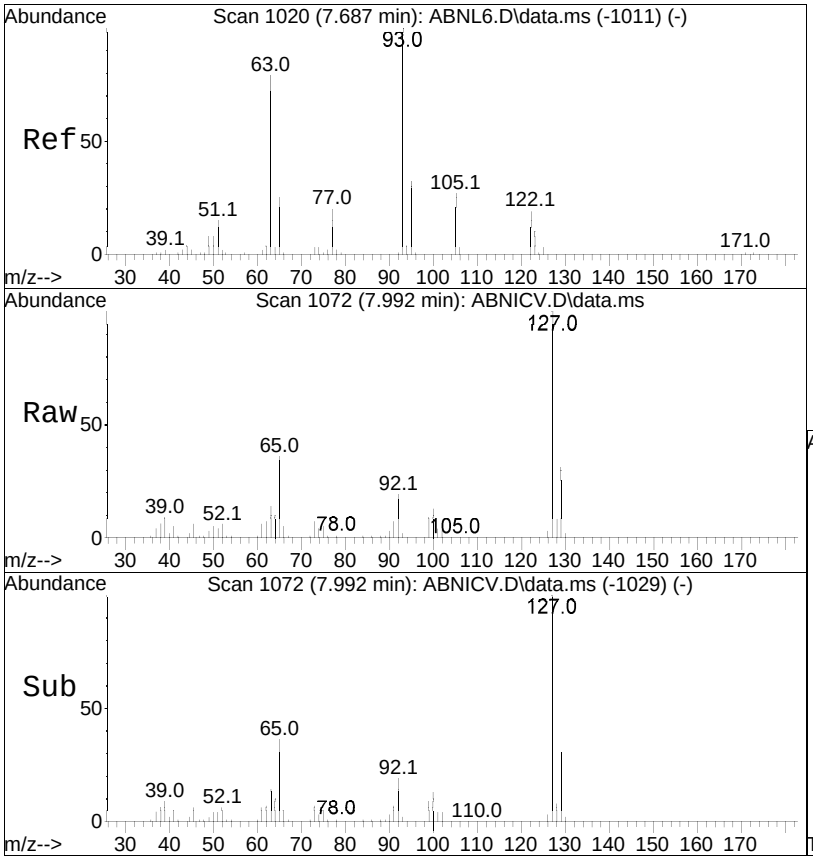


#37
Benzoic Acid
Concen: 4.41 ug/ml
RT: 7.686 min Scan# 1020
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:105 Resp: 35144

Ion	Ratio	Lower	Upper
105	100		
122	74.1	59.9	89.9
77	78.4	60.1	90.1

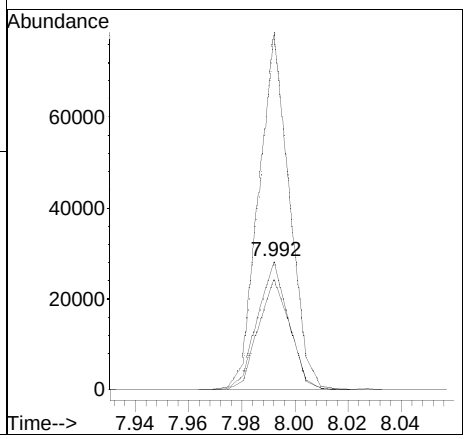


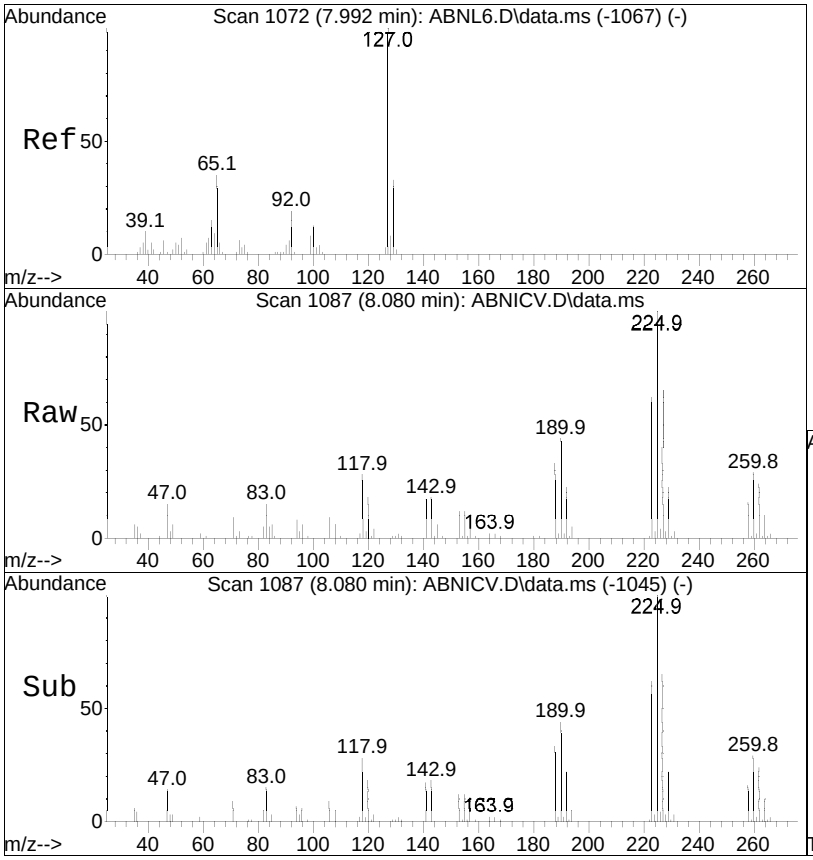


#38
4-Chloroaniline
Concen: 4.65 ug/ml
RT: 7.992 min Scan# 1072
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 65 Resp: 22958

Ion	Ratio	Lower	Upper
65	100		
127	272.3	237.6	356.4
129	87.3	76.3	114.5

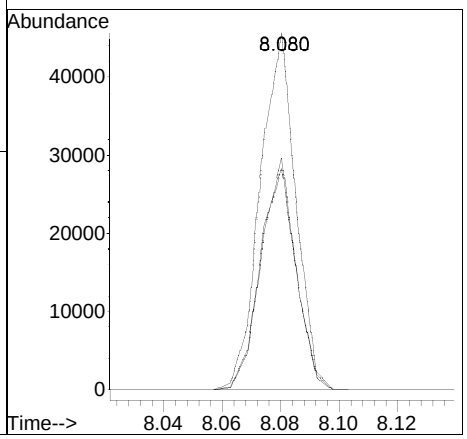


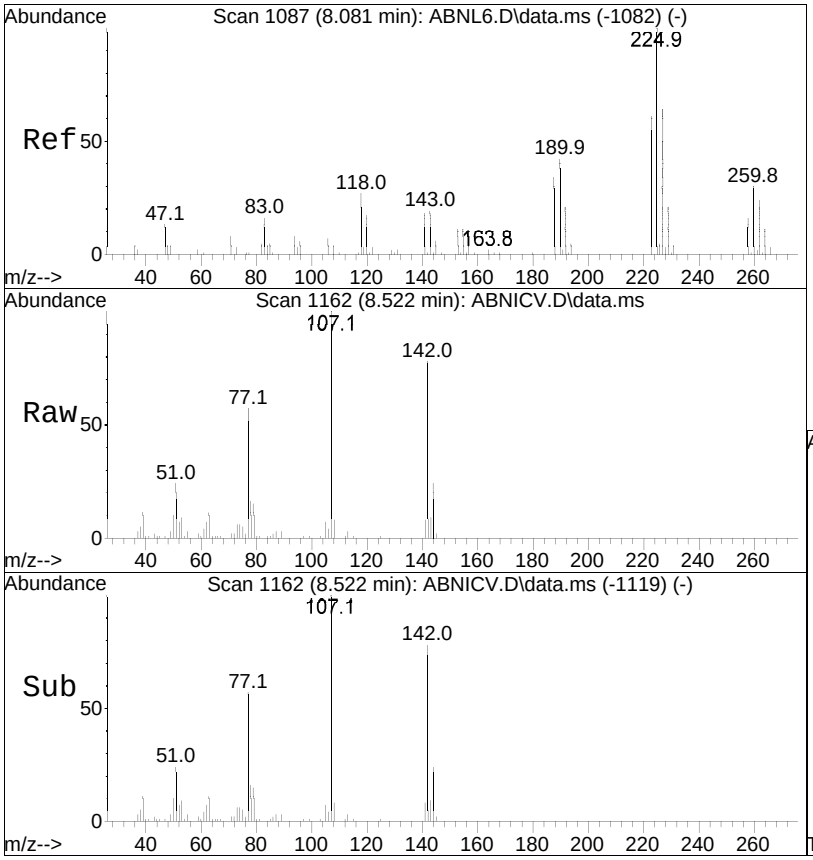


#39
Hexachlorobutadiene
Concen: 4.35 ug/ml
RT: 8.080 min Scan# 1087
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:225 Resp: 38426

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.3	75.5
227	63.2	52.2	78.2

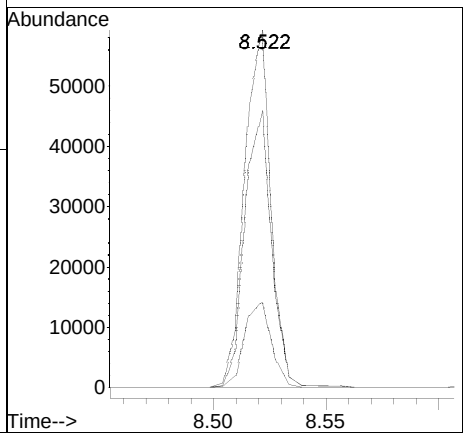


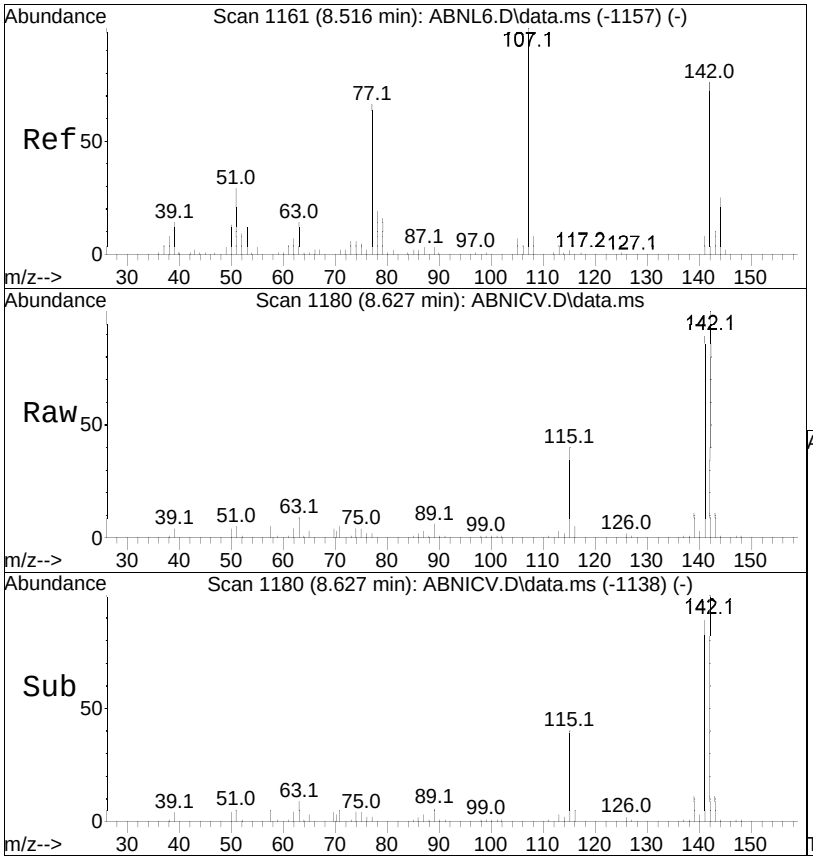


#40
p-Chloro-m-cresol
Concen: 4.77 ug/ml
RT: 8.522 min Scan# 1162
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:107 Resp: 47677

Ion	Ratio	Lower	Upper
107	100		
144	24.7	20.9	31.3
142	78.9	66.1	99.1

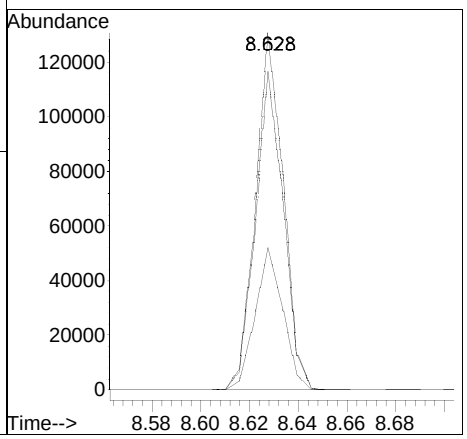


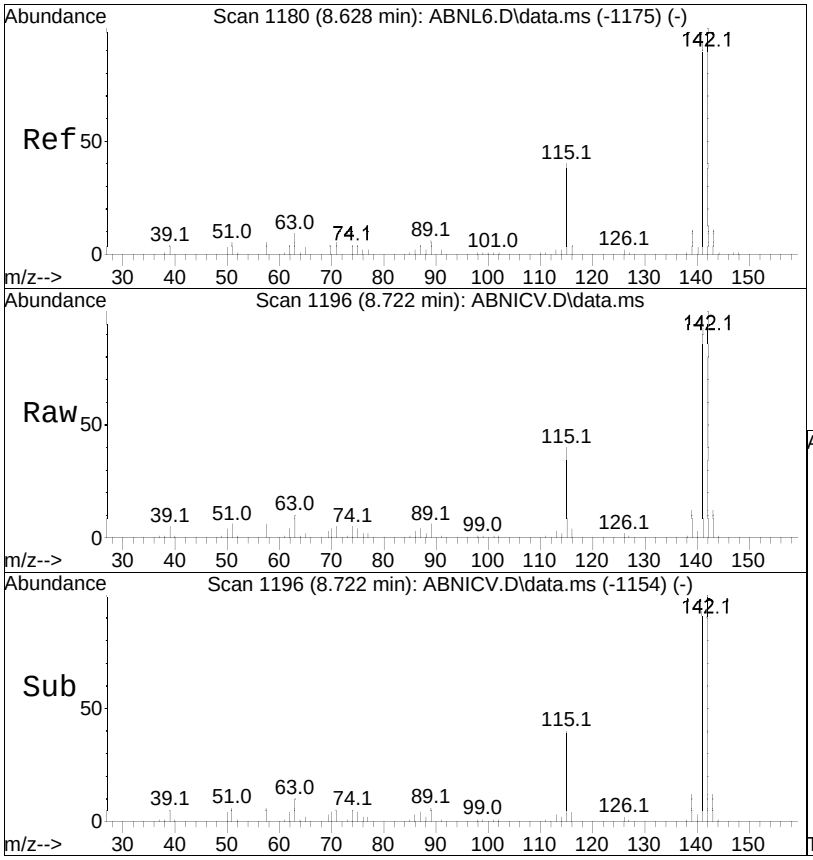


#41
2-Methylnaphthalene
Concen: 4.62 ug/ml
RT: 8.627 min Scan# 1180
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:142 Resp: 102902

Ion	Ratio	Lower	Upper
142	100		
141	89.9	69.6	104.4
115	39.9	26.6	40.0

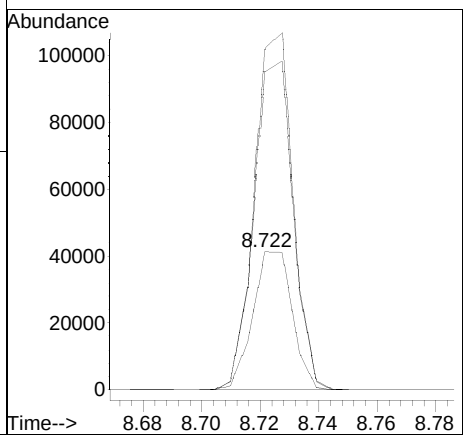


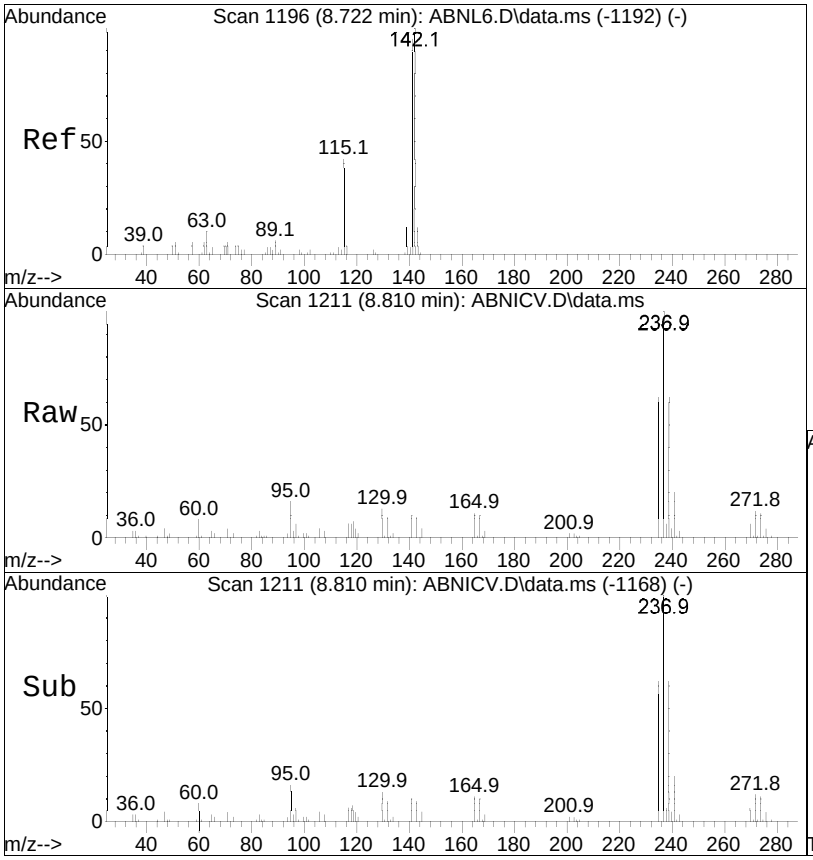


#42
1-Methylnaphthalene
Concen: 4.61 ug/ml
RT: 8.722 min Scan# 1196
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:115 Resp: 38995

Ion	Ratio	Lower	Upper
115	100		
141	233.9	207.8	311.6
142	250.3	226.8	340.2

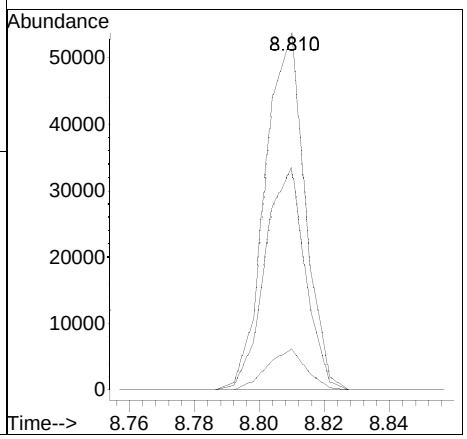


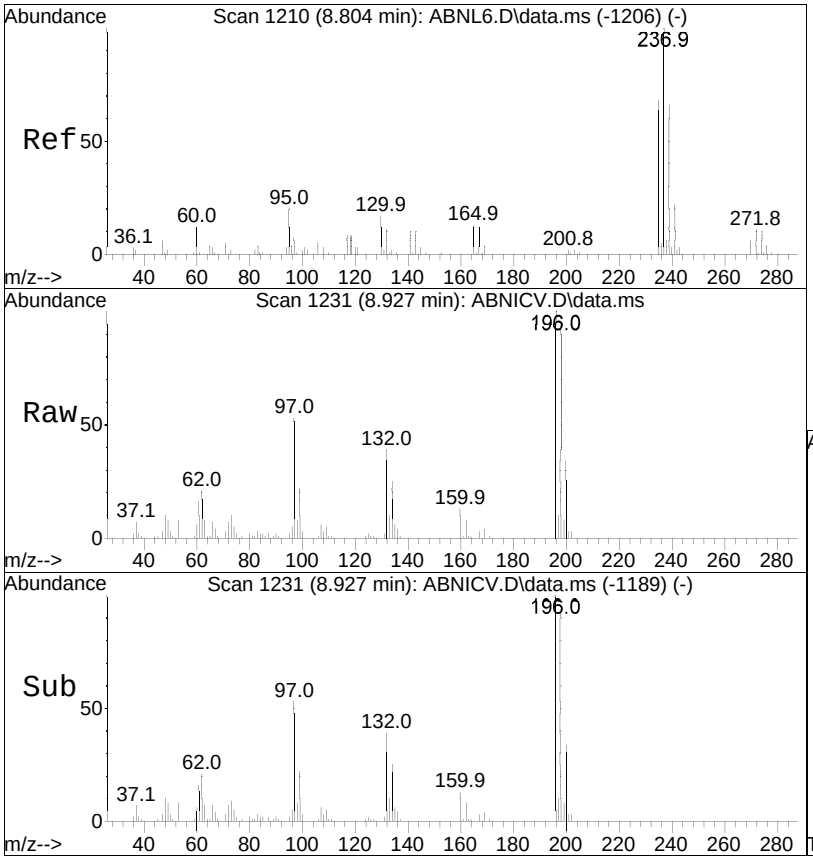


#43
Hexachlorocyclopentadiene
Concen: 4.66 ug/ml
RT: 8.810 min Scan# 1211
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:237 Resp: 45649

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	11.3	9.8	14.6

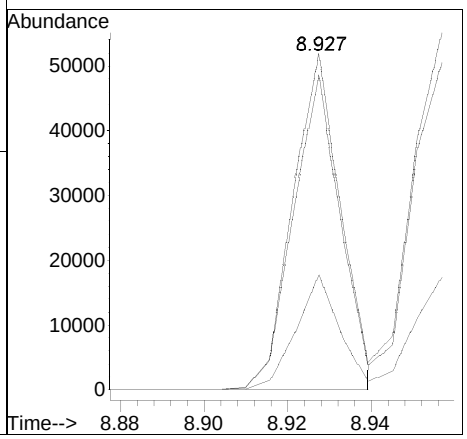


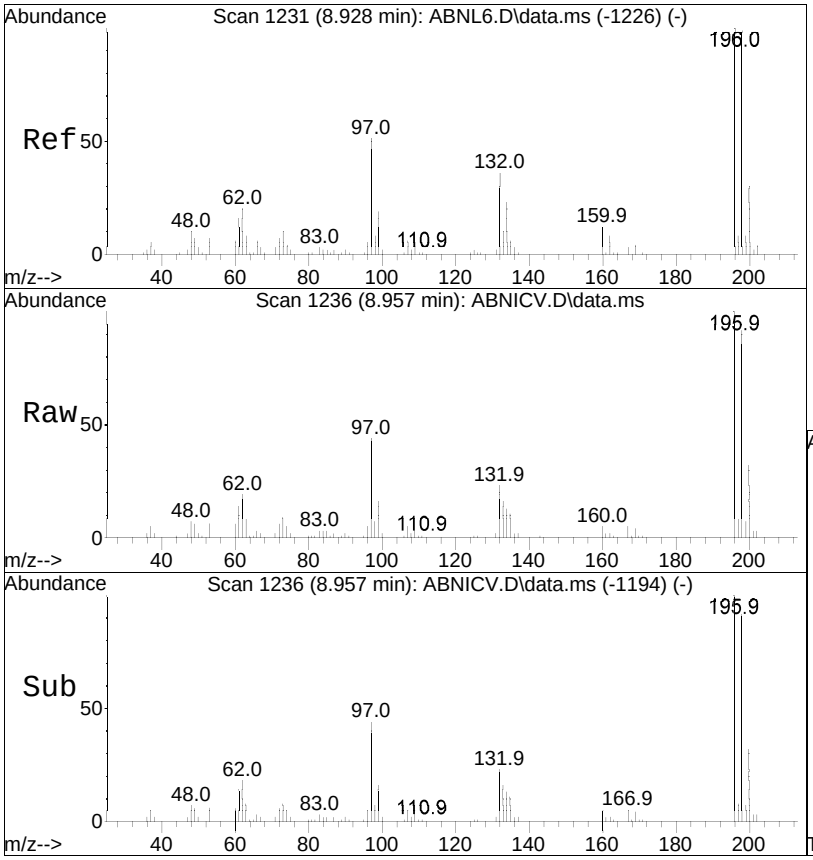


#44
2,4,6-Trichlorophenol
Concen: 4.73 ug/ml
RT: 8.927 min Scan# 1231
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:196 Resp: 41492

Ion	Ratio	Lower	Upper
196	100		
198	92.6	77.5	116.3
200	31.3	23.8	35.6

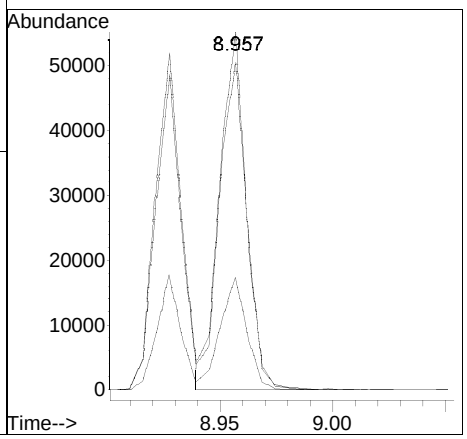


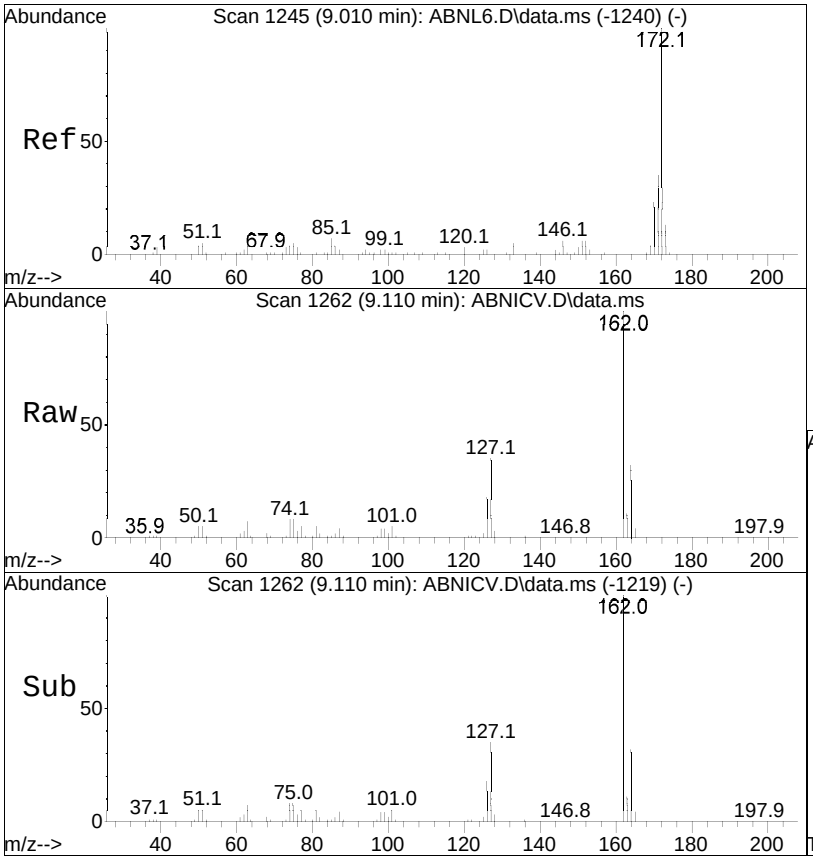


#45
2,4,5-Trichlorophenol
Concen: 4.82 ug/ml
RT: 8.957 min Scan# 1236
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:196 Resp: 45219

Ion	Ratio	Lower	Upper
196	100		
200	31.7	25.4	38.0
198	95.0	78.0	117.0

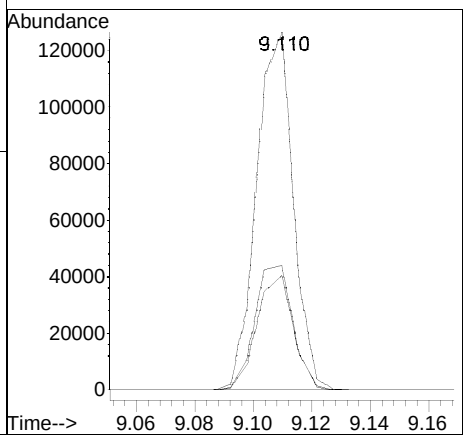


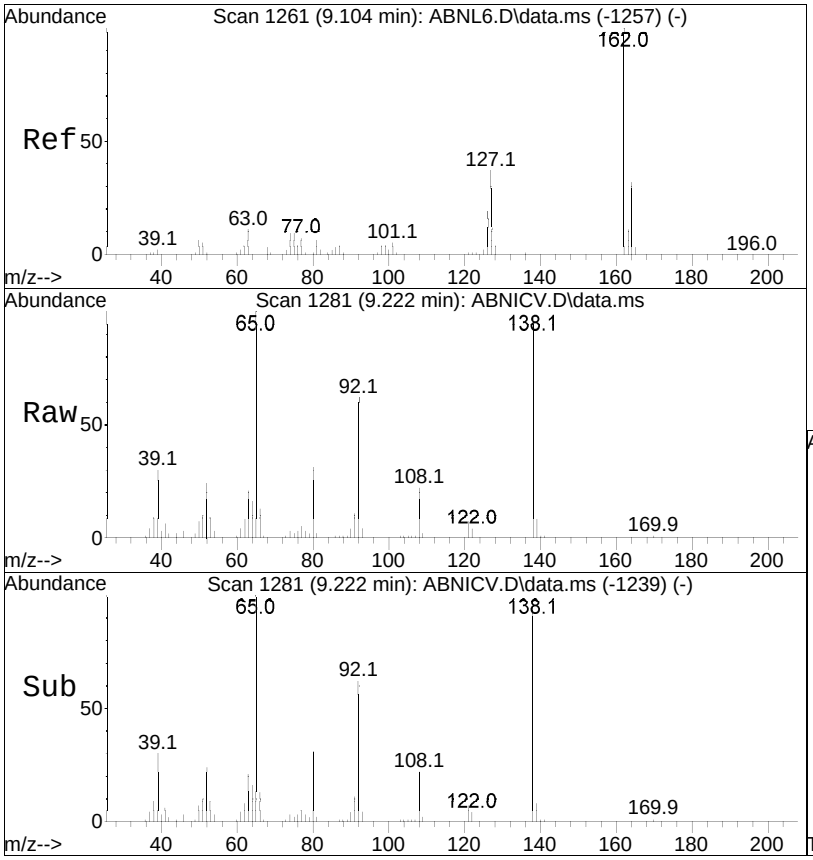


#47
2-Chloronaphthalene
Concen: 4.61 ug/ml
RT: 9.110 min Scan# 1262
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:162 Resp: 109202

Ion	Ratio	Lower	Upper
162	100		
127	36.4	32.2	48.4
164	32.2	25.7	38.5

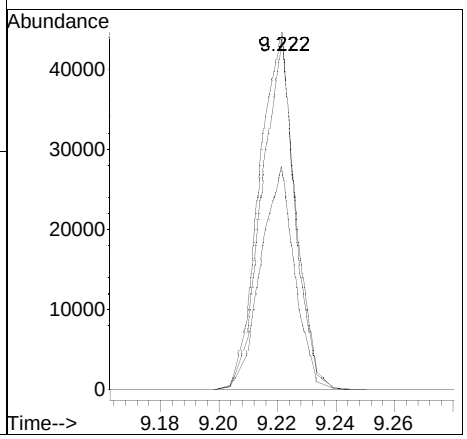


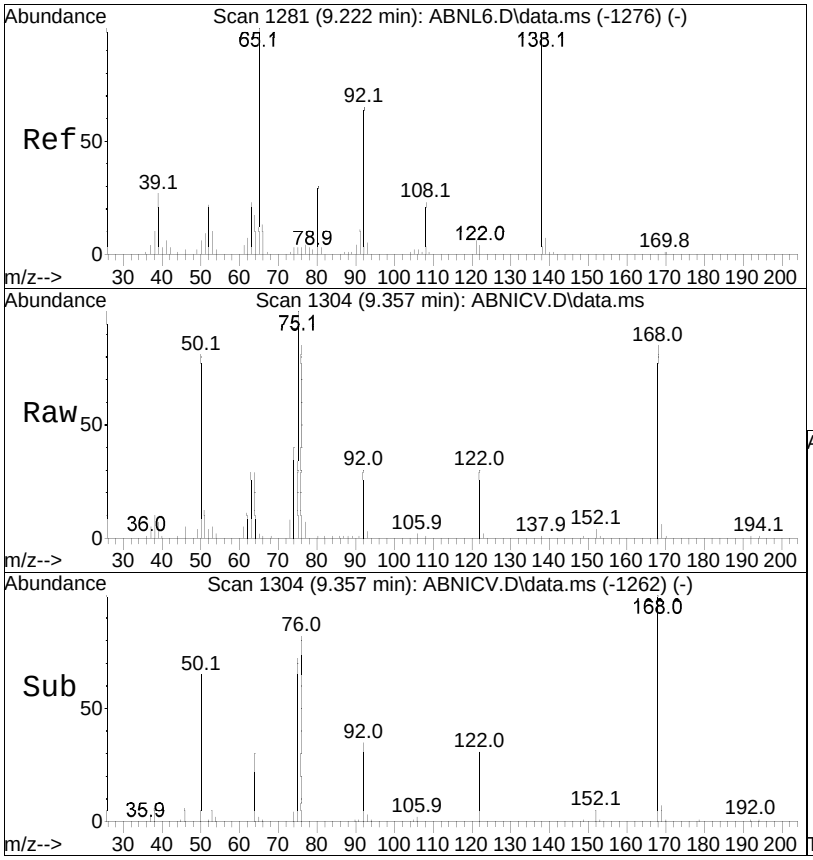


#48
2-Nitroaniline
Concen: 4.88 ug/ml
RT: 9.222 min Scan# 1281
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:138 Resp: 34832

Ion	Ratio	Lower	Upper
138	100		
92	64.4	53.5	80.3
65	106.6	86.3	129.5

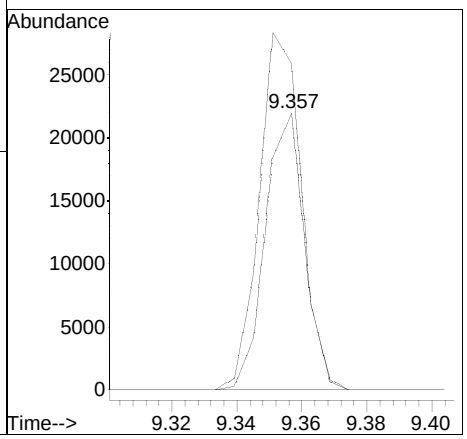


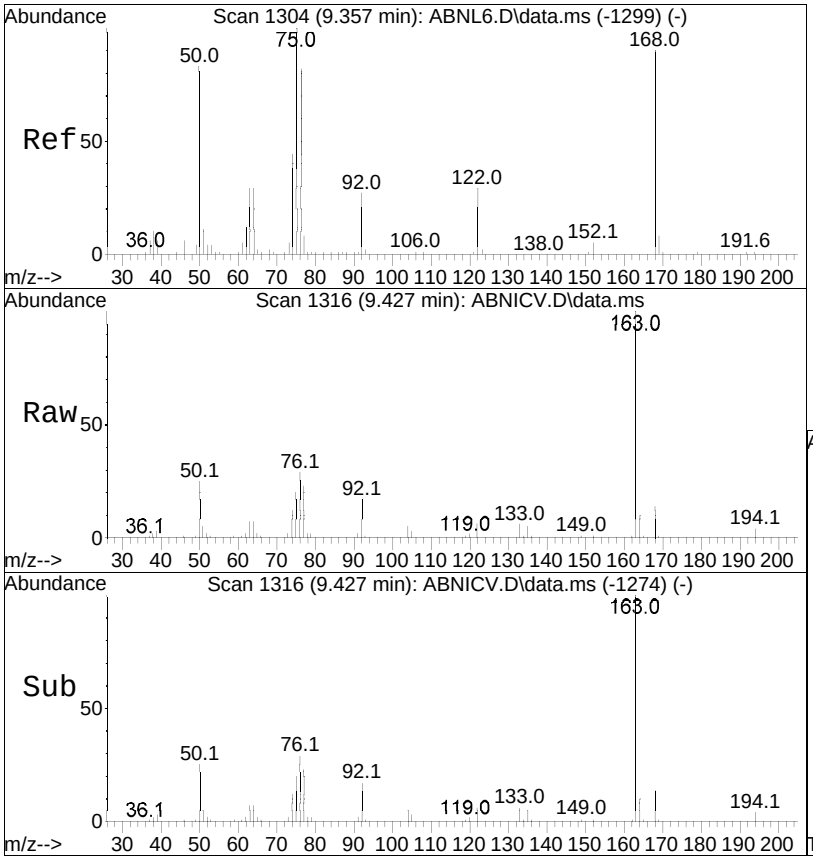


#49
1,4-Dinitrobenzene
Concen: 4.90 ug/ml
RT: 9.357 min Scan# 1304
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:168 Resp: 18421

Ion	Ratio	Lower	Upper
168	100		
75	137.4	121.8	182.8

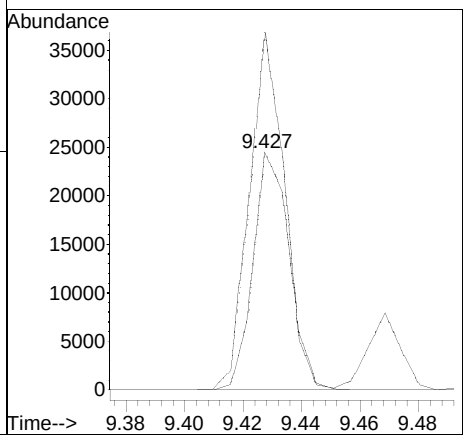


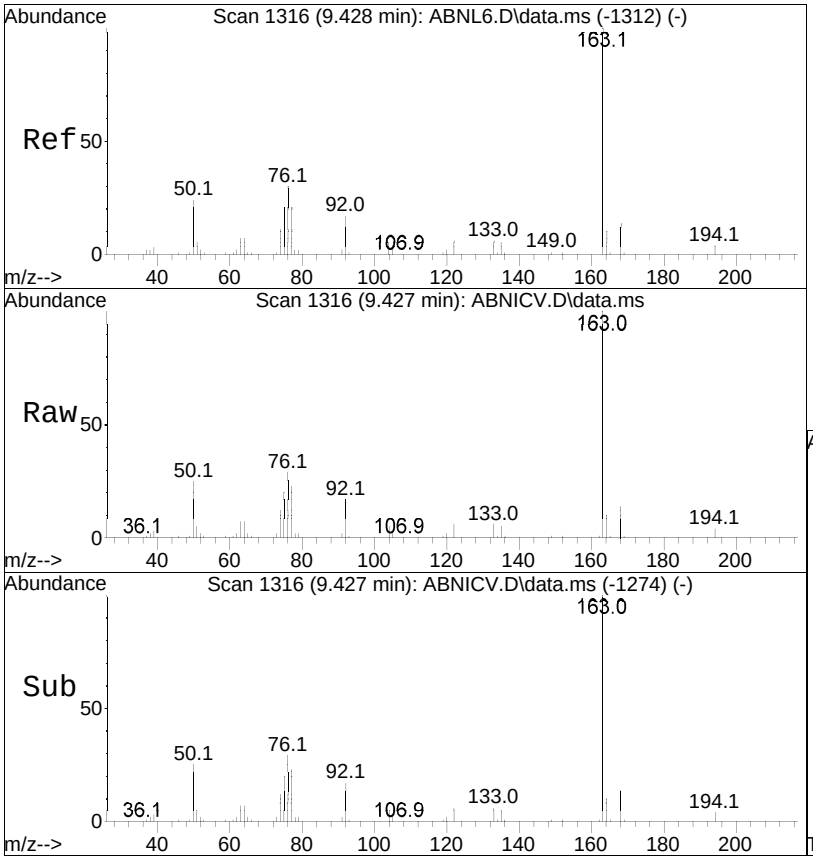


#50
1,3-Dinitrobenzene
Concen: 4.88 ug/ml
RT: 9.427 min Scan# 1316
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:168 Resp: 20889

Ion	Ratio	Lower	Upper
168	100		
75	146.4	22.7	34.1#

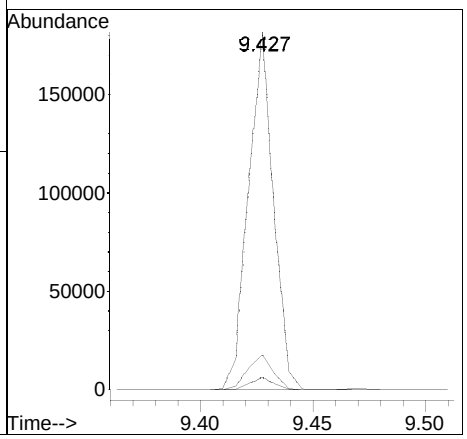


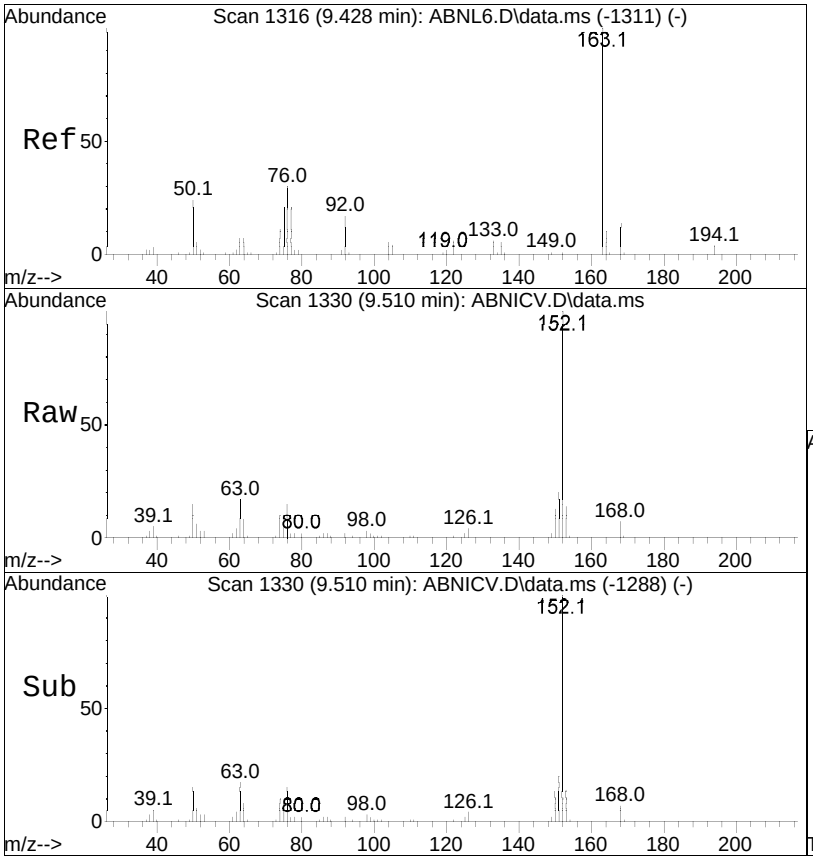


#51
Dimethyl phthalate
Concen: 4.81 ug/ml
RT: 9.427 min Scan# 1316
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:163 Resp: 138787

Ion	Ratio	Lower	Upper
163	100		
194	3.4	3.5	5.3#
164	10.1	7.9	11.9

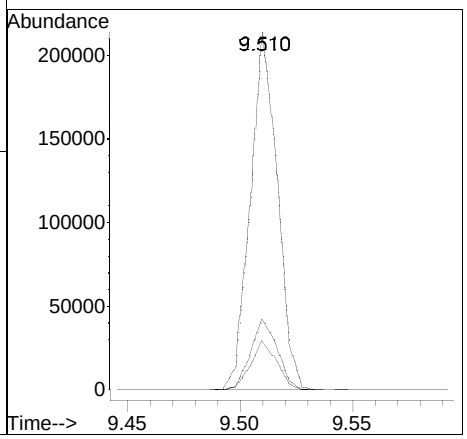


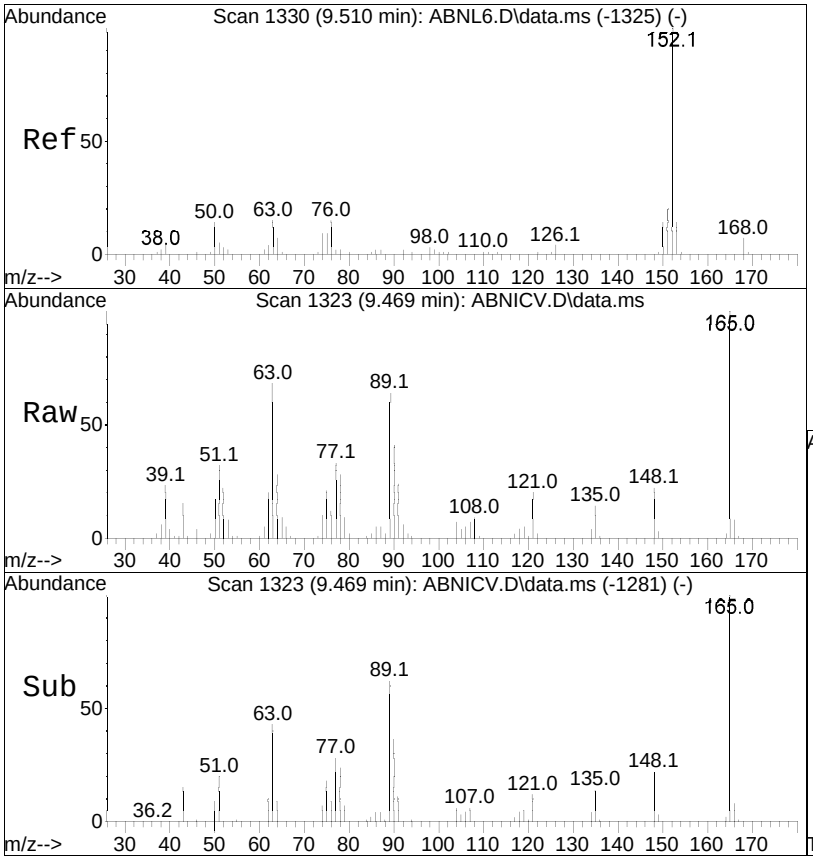


#52
Acenaphthylene
Concen: 4.86 ug/ml
RT: 9.510 min Scan# 1330
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:152 Resp: 176343

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.6
153	13.4	10.5	15.7

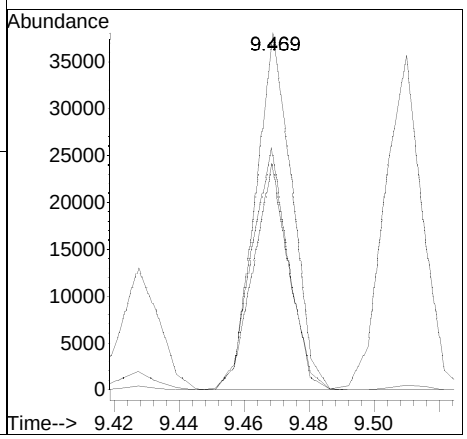


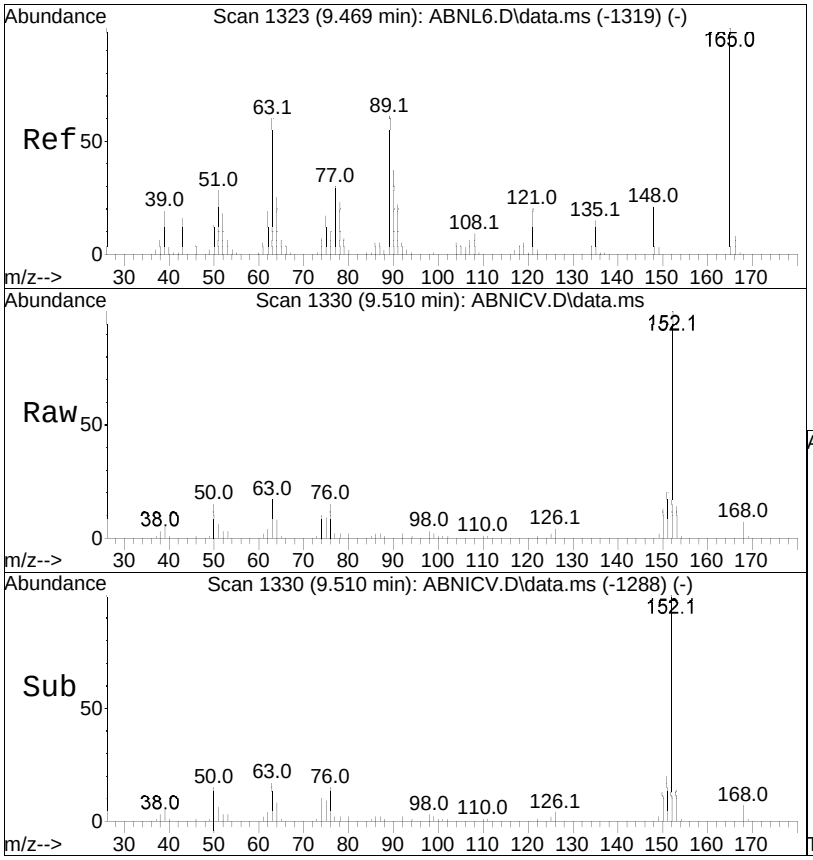


#53
2,6-Dinitrotoluene
Concen: 4.82 ug/ml
RT: 9.469 min Scan# 1323
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:165 Resp: 29955

Ion	Ratio	Lower	Upper
165	100		
89	62.1	54.2	81.2
63	67.4	64.2	96.2

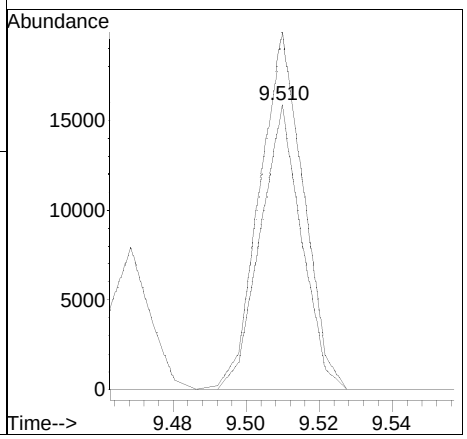


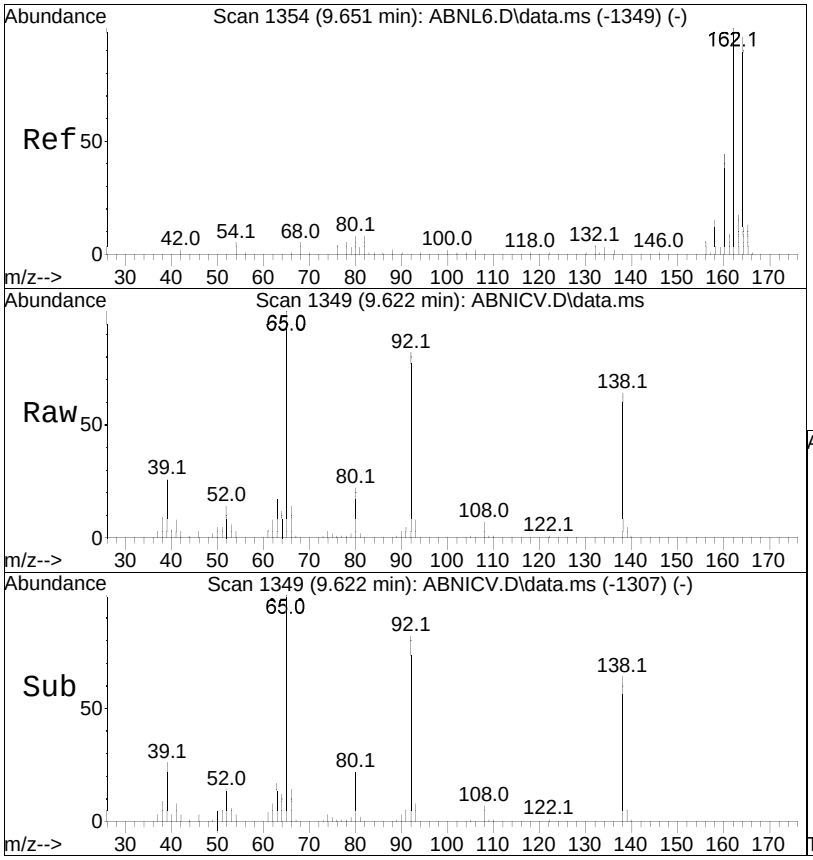


#54
1,2-Dinitrobenzene
Concen: 4.67 ug/ml
RT: 9.510 min Scan# 1330
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:168 Resp: 12362

Ion	Ratio	Lower	Upper
168	100		
75	133.3	30.9	46.3#

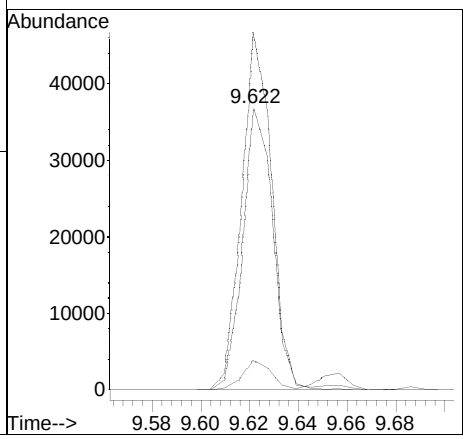


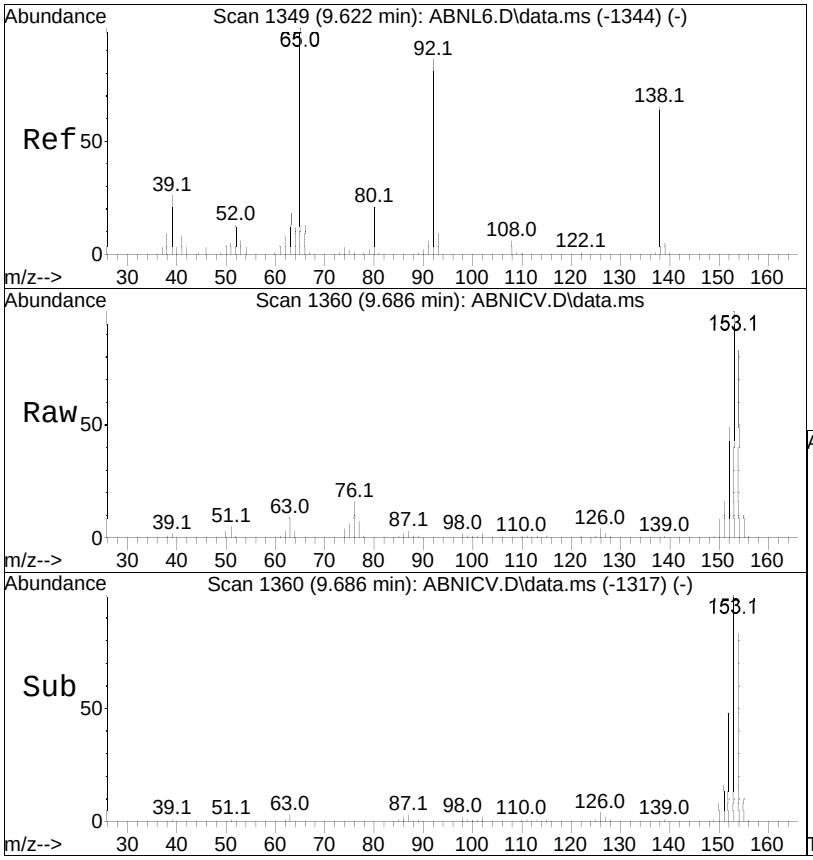


#64
3-Nitroaniline
Concen: 5.14 ug/ml
RT: 9.622 min Scan# 1349
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:138 Resp: 31209

Ion	Ratio	Lower	Upper
138	100		
92	126.5	93.4	140.2
108	10.3	9.5	14.3

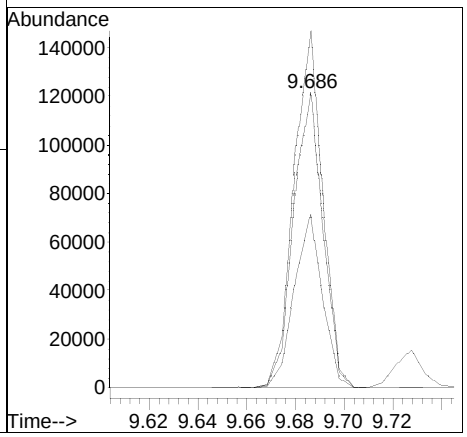


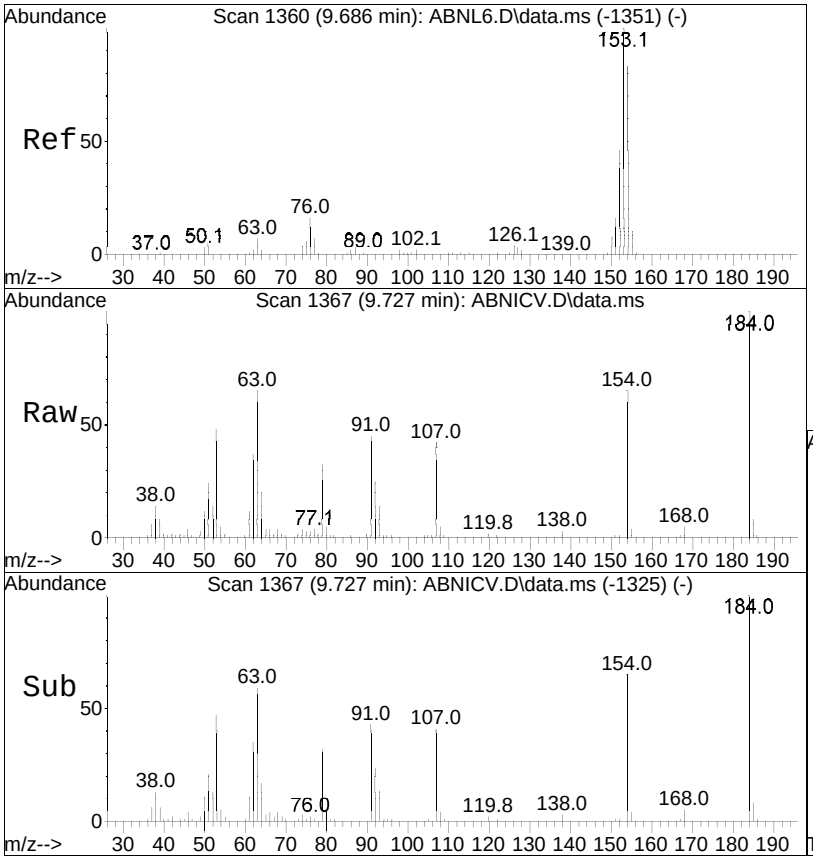


#65
Acenaphthene
Concen: 4.65 ug/ml
RT: 9.686 min Scan# 1360
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:154 Resp: 101856

Ion	Ratio	Lower	Upper
154	100		
153	118.5	85.3	127.9
152	56.5	41.4	62.0

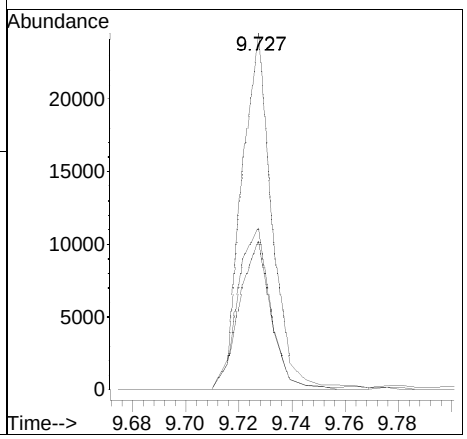


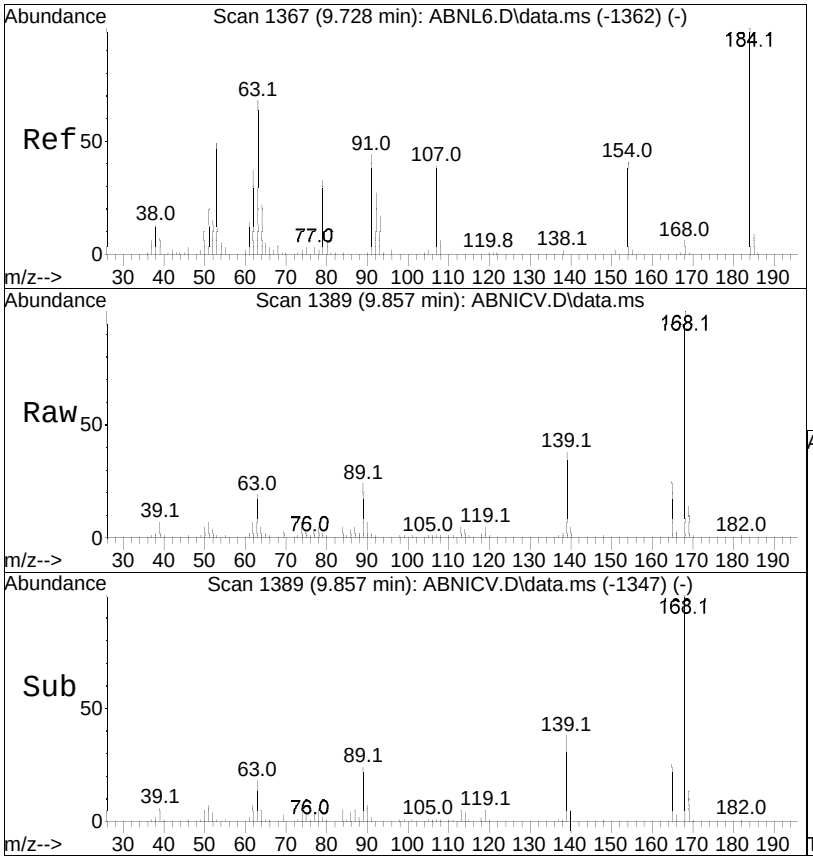


#66
2,4-Dinitrophenol
Concen: 4.79 ug/ml
RT: 9.727 min Scan# 1367
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:184 Resp: 19408

Ion	Ratio	Lower	Upper
184	100		
107	44.0	37.7	56.5
91	49.1	46.3	69.5

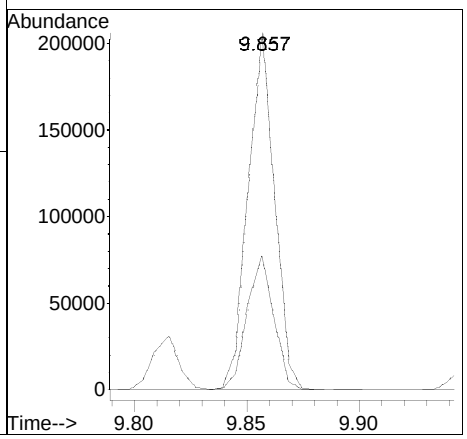


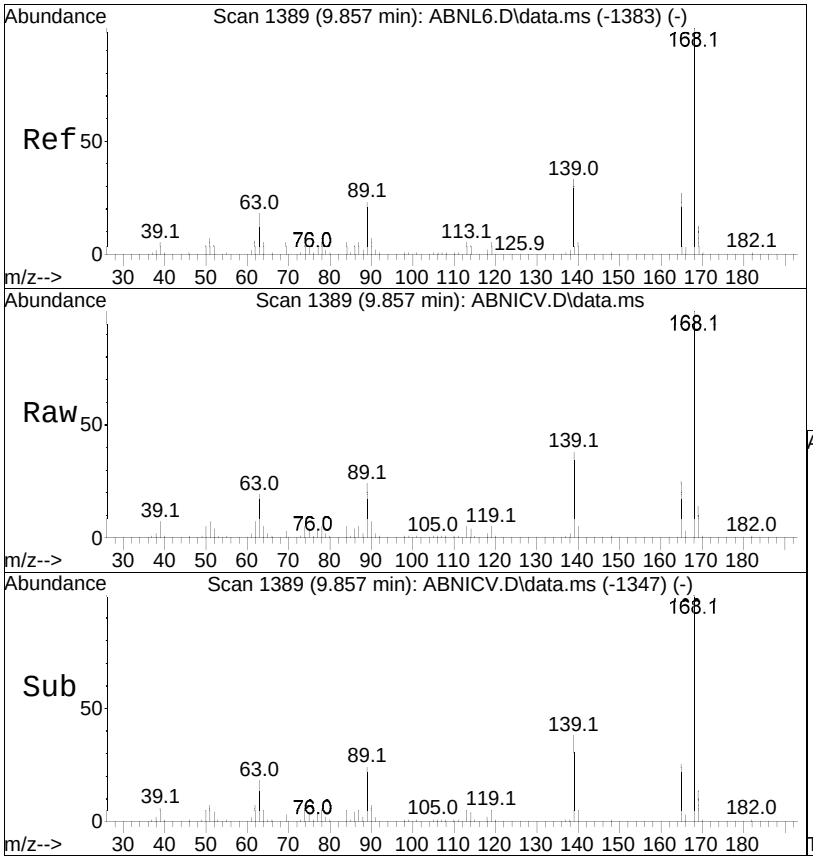


#67
Dibenzofuran
Concen: 4.54 ug/ml
RT: 9.857 min Scan# 1389
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:168 Resp: 167081

Ion	Ratio	Lower	Upper
168	100		
139	38.2	31.4	47.2

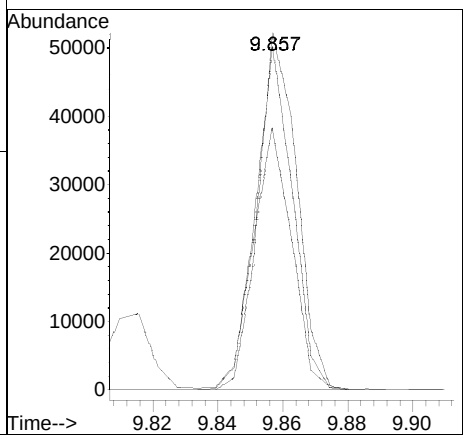


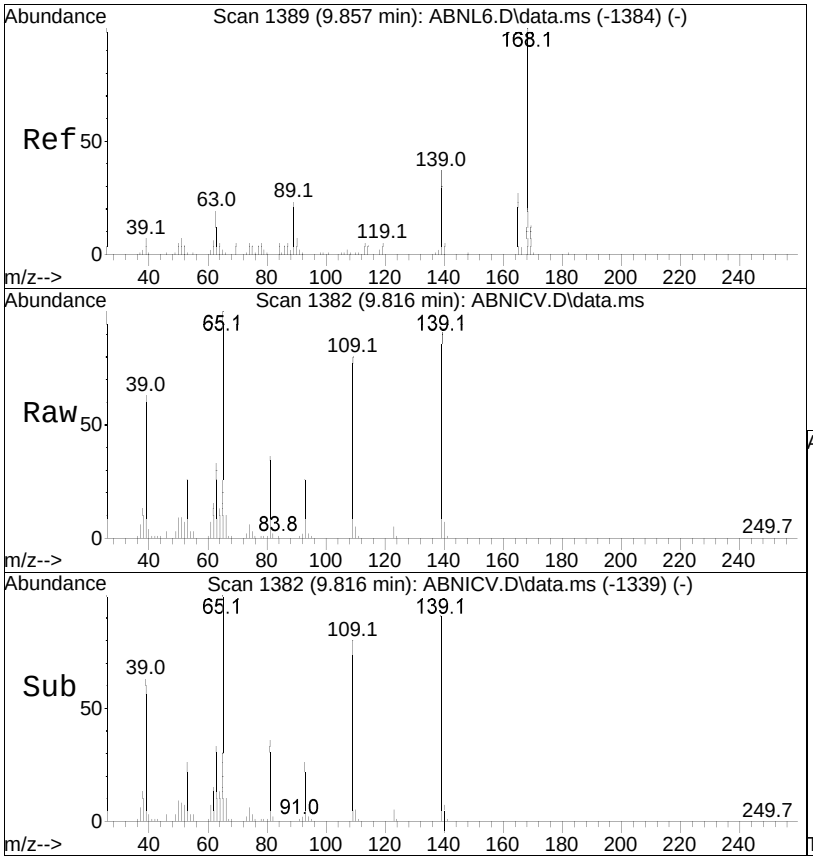


#68
2,4-Dinitrotoluene
Concen: 4.73 ug/ml
RT: 9.857 min Scan# 1389
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:165 Resp: 42694

Ion	Ratio	Lower	Upper
165	100		
89	92.3	72.0	108.0
63	73.8	52.7	79.1

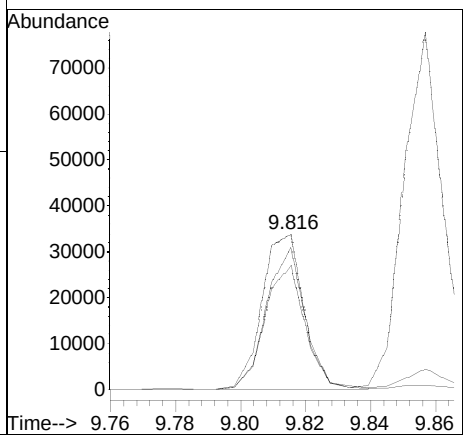


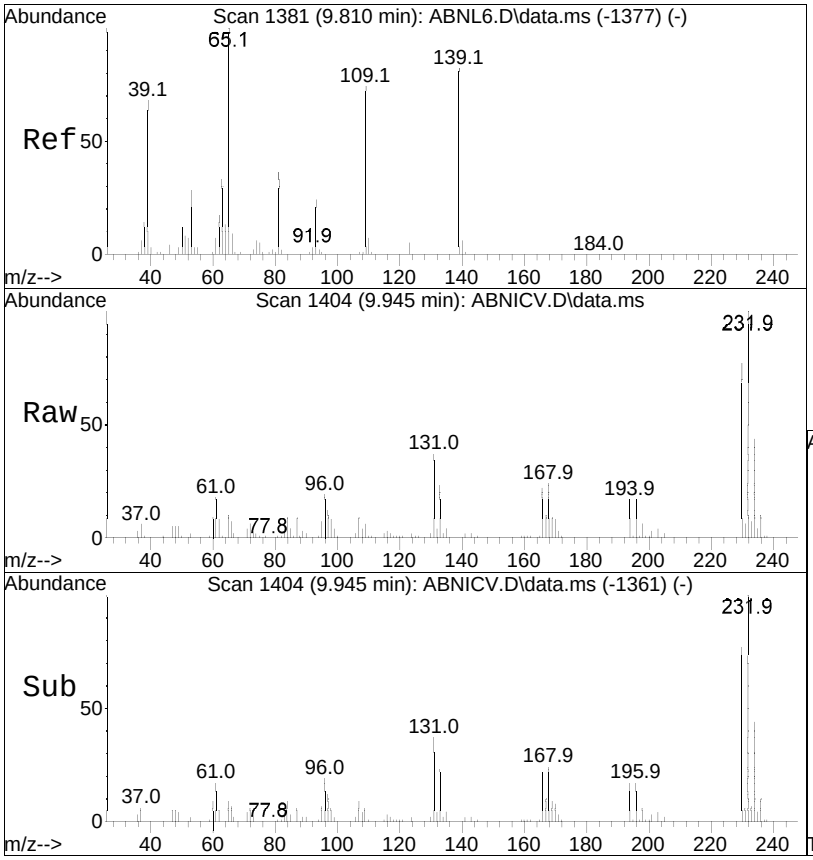


#69
4-Nitrophenol
Concen: 4.94 ug/ml
RT: 9.816 min Scan# 1382
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 65 Resp: 30360

Ion	Ratio	Lower	Upper
65	100		
109	76.3	47.4	71.2#
139	84.1	76.6	115.0

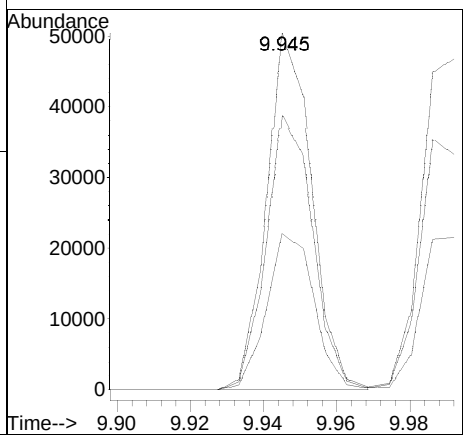


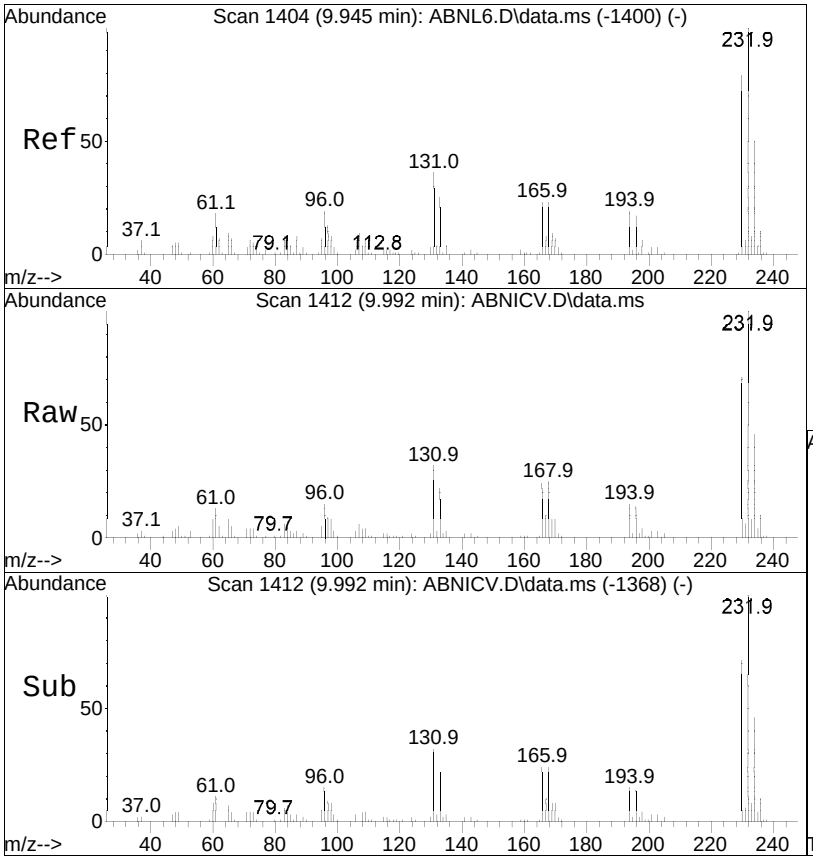


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.04 ug/ml
RT: 9.945 min Scan# 1404
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:232 Resp: 43280

Ion	Ratio	Lower	Upper
232	100		
230	79.5	64.2	96.4
234	46.3	38.1	57.1

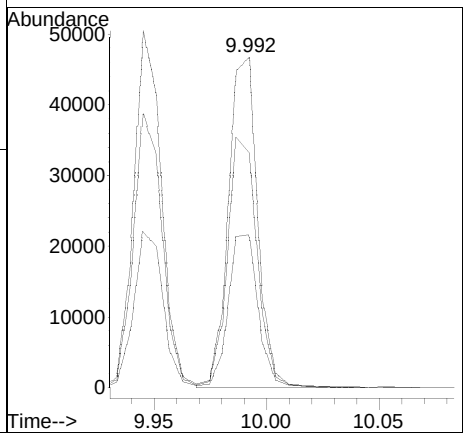


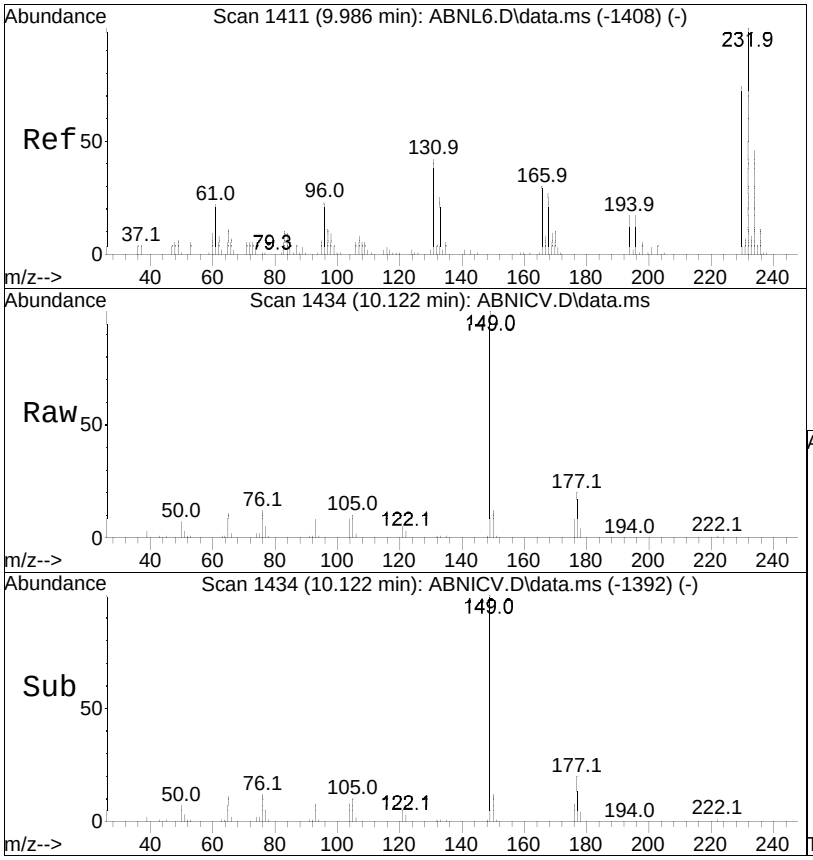


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.13 ug/ml
RT: 9.992 min Scan# 1412
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:232 Resp: 42390

Ion	Ratio	Lower	Upper
232	100		
230	76.6	61.8	92.8
234	47.4	36.2	54.2

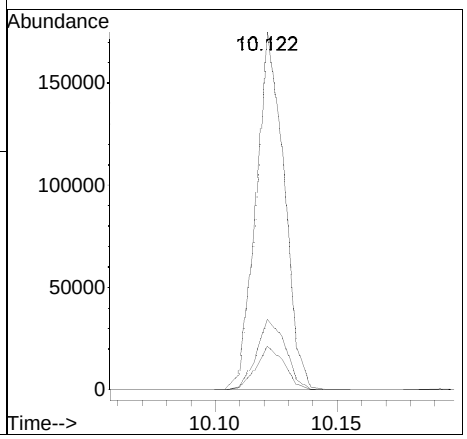


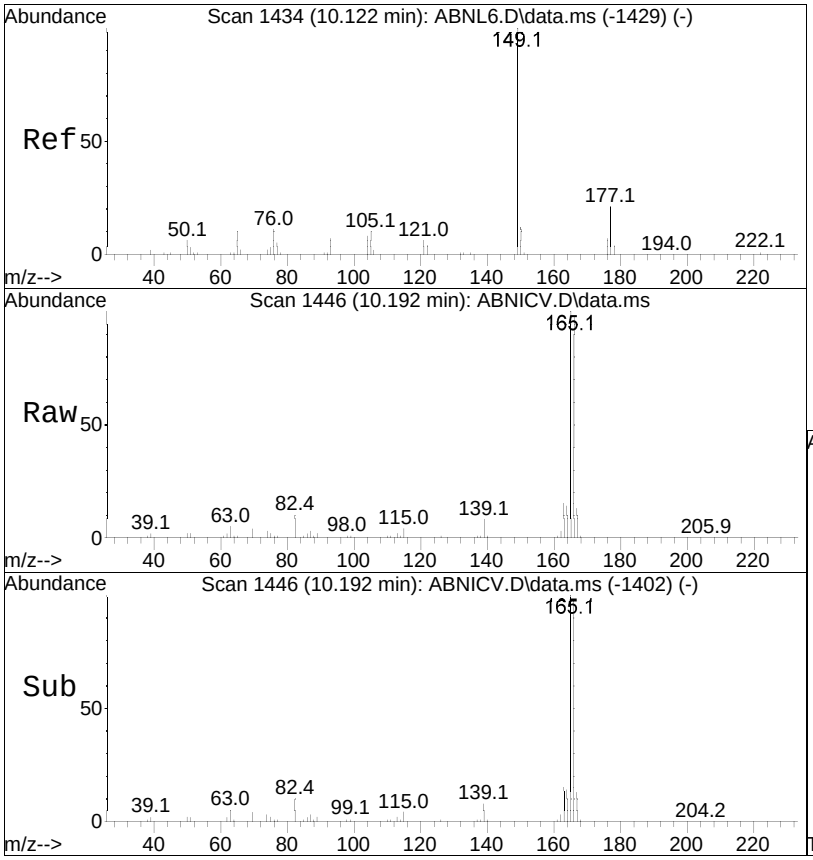


#72
Diethyl phthalate
Concen: 4.76 ug/ml
RT: 10.122 min Scan# 1434
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:149 Resp: 138268

Ion	Ratio	Lower	Upper
149	100		
177	20.5	16.1	24.1
150	12.4	9.4	14.2

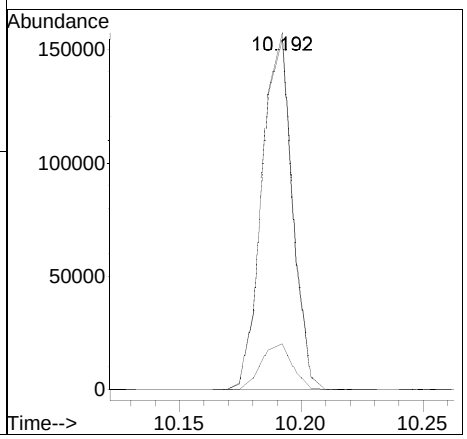


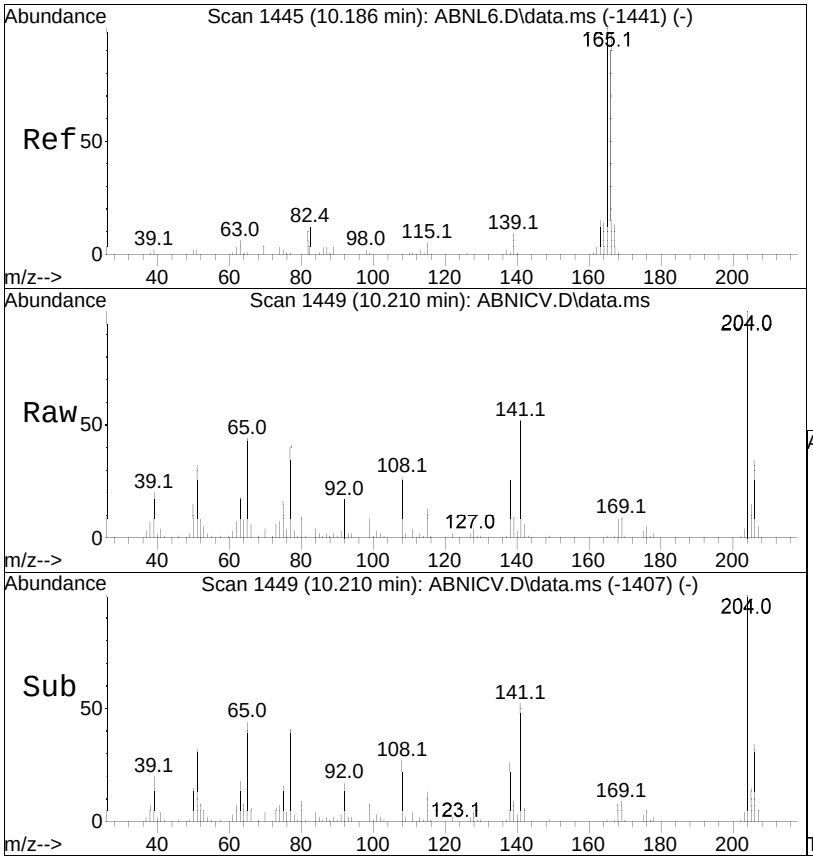


#73
Fluorene
Concen: 4.66 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:166 Resp: 134876

Ion	Ratio	Lower	Upper
166	100		
165	101.6	76.2	114.2
167	13.8	10.6	15.8

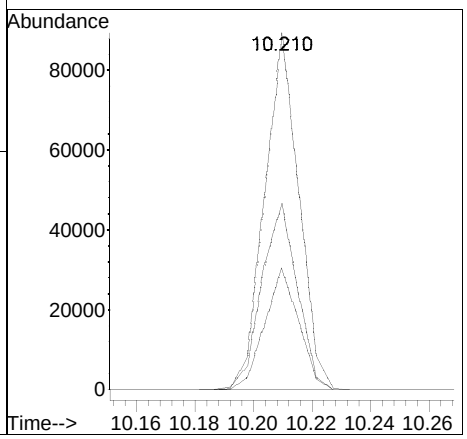


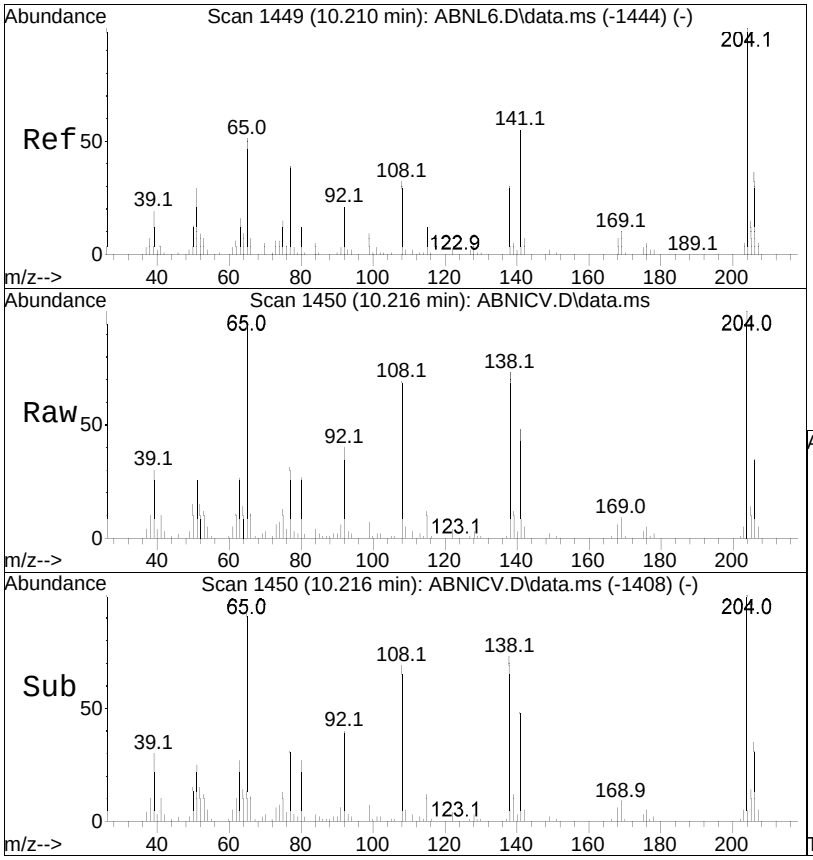


#74
4-Chlorophenyl phenyl ether
Concen: 4.72 ug/ml
RT: 10.210 min Scan# 1449
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:204 Resp: 71803

Ion	Ratio	Lower	Upper
204	100		
206	34.2	25.8	38.6
141	54.5	53.6	80.4

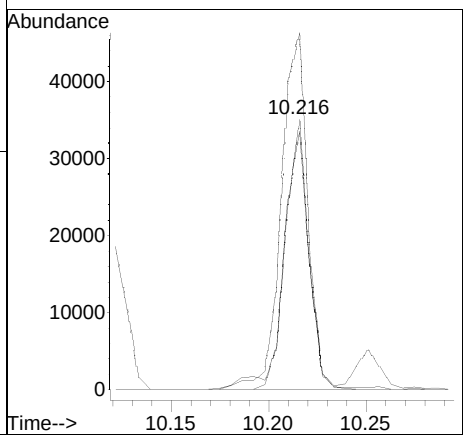


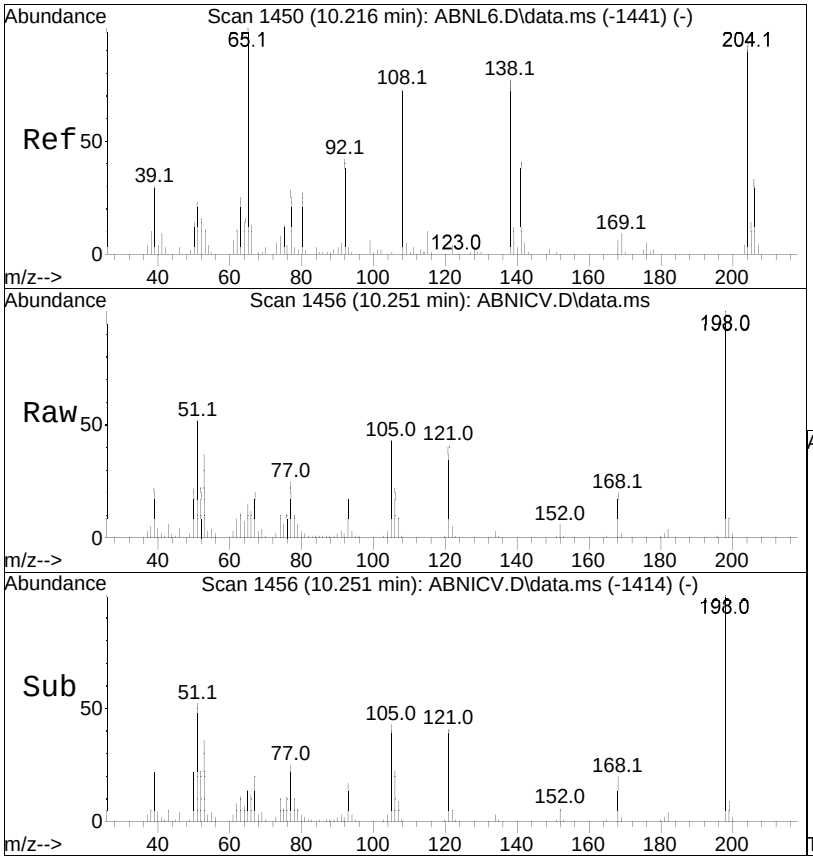


#75
4-Nitroaniline
Concen: 4.80 ug/ml
RT: 10.216 min Scan# 1450
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:138 Resp: 30300

Ion	Ratio	Lower	Upper
138	100		
108	93.9	52.1	78.1#
65	142.9	115.0	172.6

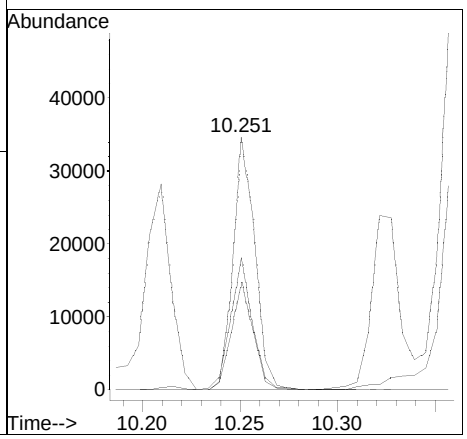


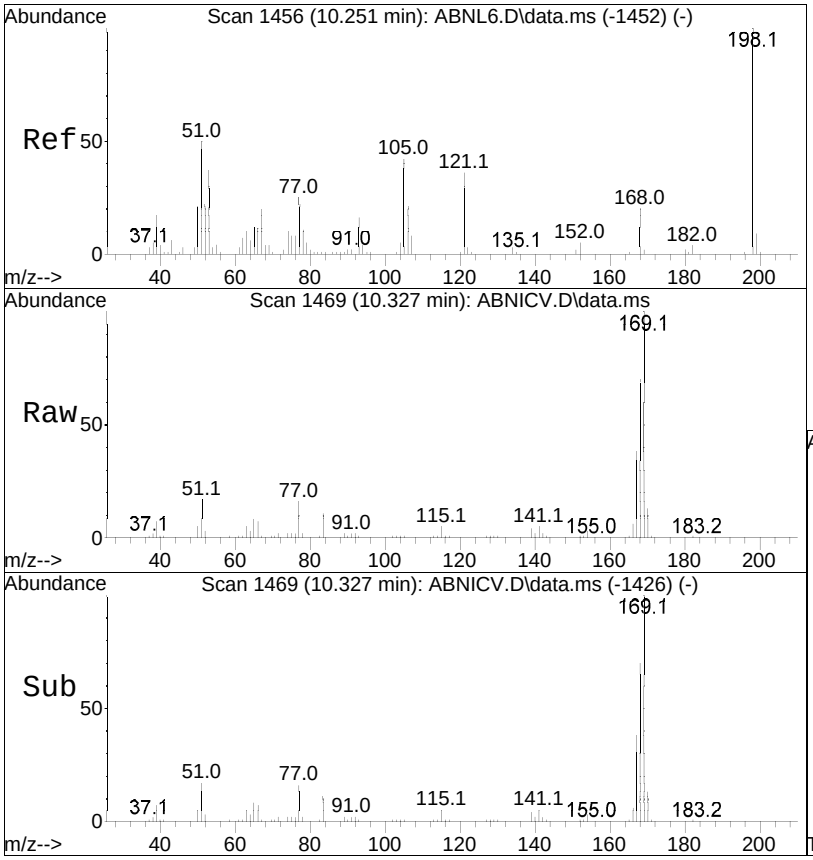


#76
4,6-Dinitro-o-cresol
Concen: 5.40 ug/ml
RT: 10.251 min Scan# 1456
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:198 Resp: 27327

Ion	Ratio	Lower	Upper
198	100		
51	52.6	76.0	114.0#
105	42.7	45.6	68.4#

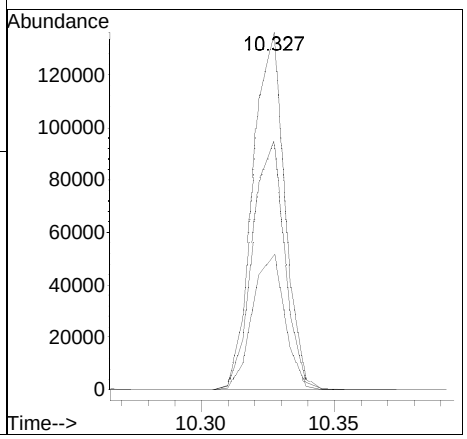


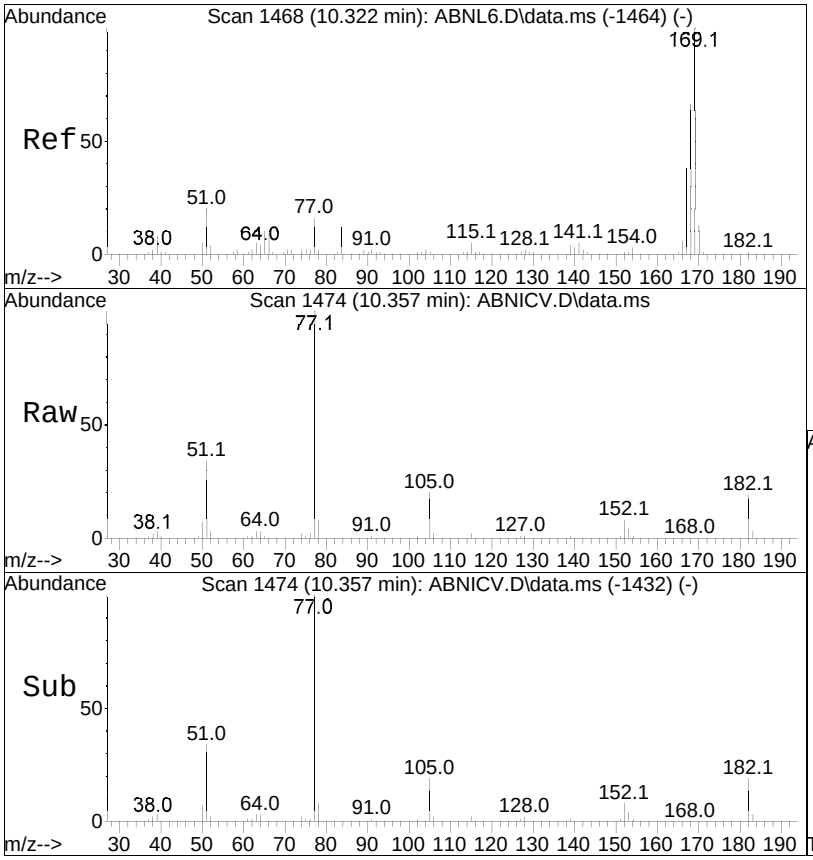


#77
NDPA/DPA
Concen: 4.73 ug/ml
RT: 10.327 min Scan# 1469
Delta R.T. 0.005 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:169 Resp: 113489

Ion	Ratio	Lower	Upper
169	100		
168	70.7	54.0	81.0
167	38.8	28.6	42.8

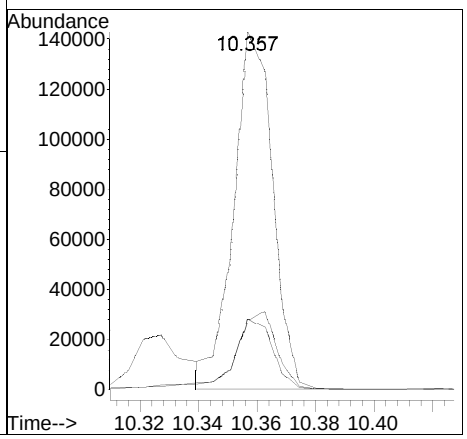


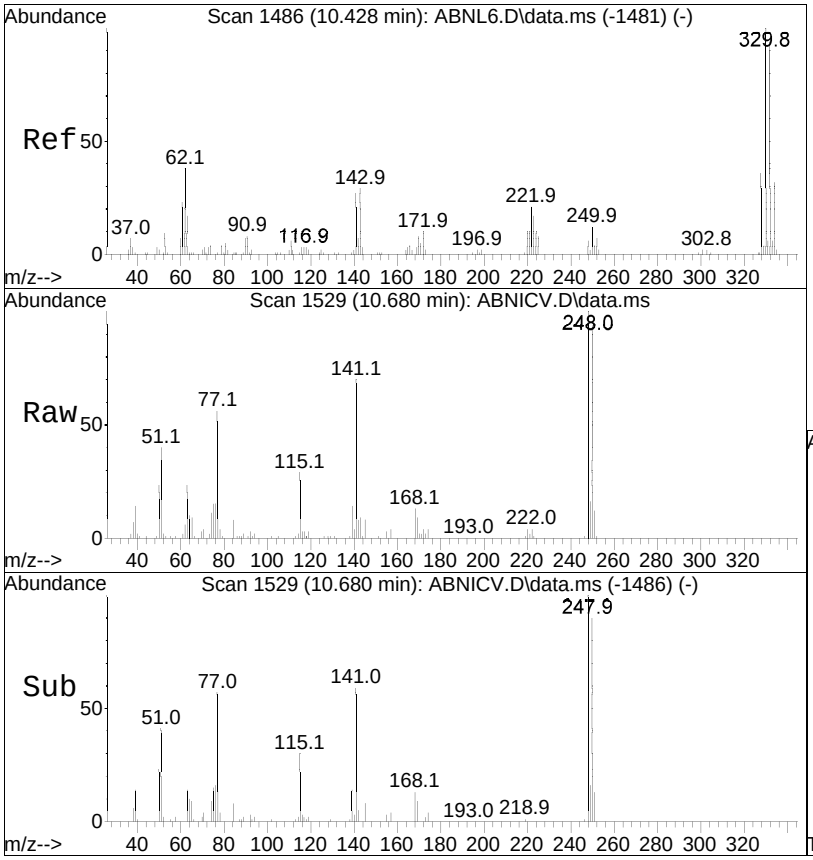


#78
Azobenzene
Concen: 4.76 ug/ml
RT: 10.357 min Scan# 1474
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion: 77 Resp: 130690

Ion	Ratio	Lower	Upper
77	100		
182	24.0	17.4	26.2
105	21.5	15.4	23.2

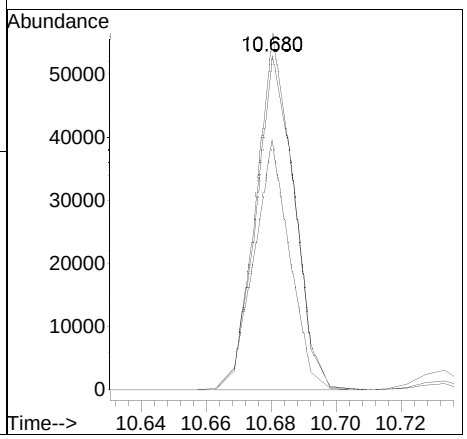


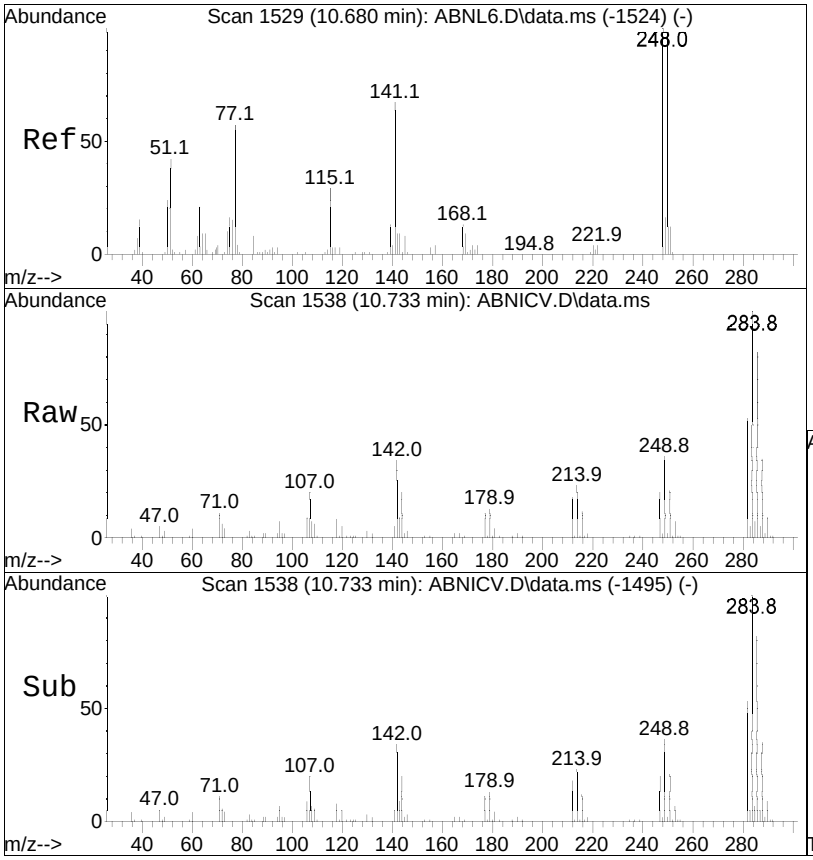


#80
4-Bromophenyl phenyl ether
Concen: 4.73 ug/ml
RT: 10.680 min Scan# 1529
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:248 Resp: 44914

Ion	Ratio	Lower	Upper
248	100		
141	67.7	76.6	114.8#
250	96.8	77.3	115.9

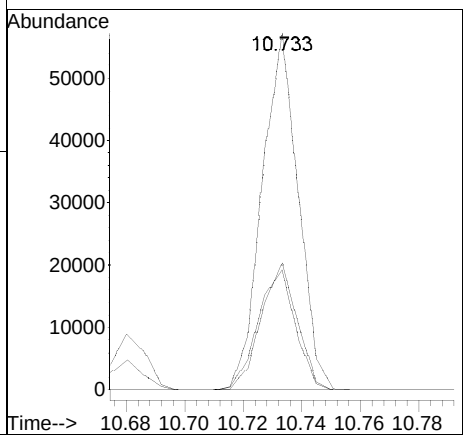


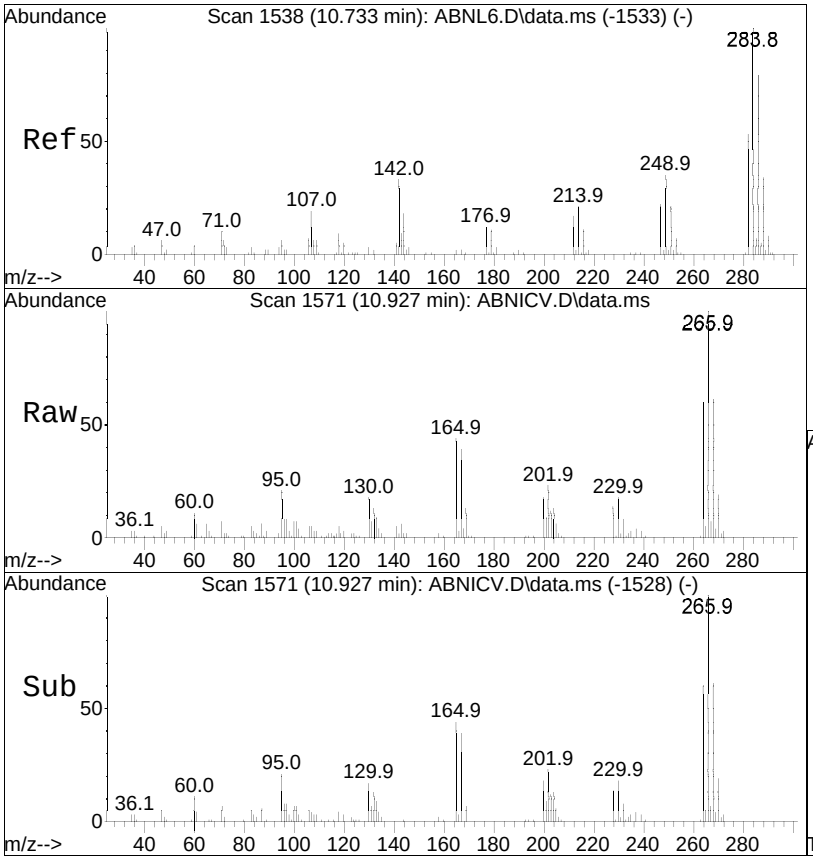


#81
Hexachlorobenzene
Concen: 4.53 ug/ml
RT: 10.733 min Scan# 1538
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:284 Resp: 49006

Ion	Ratio	Lower	Upper
284	100		
142	35.0	41.9	62.9#
249	35.5	24.1	36.1

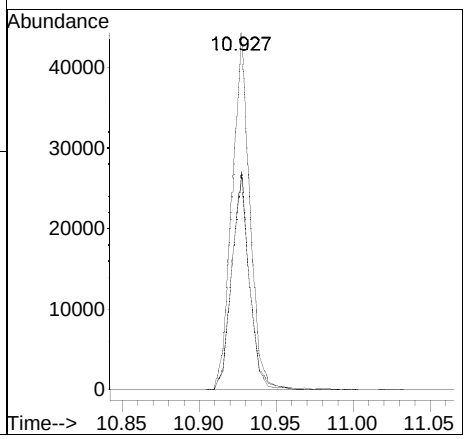


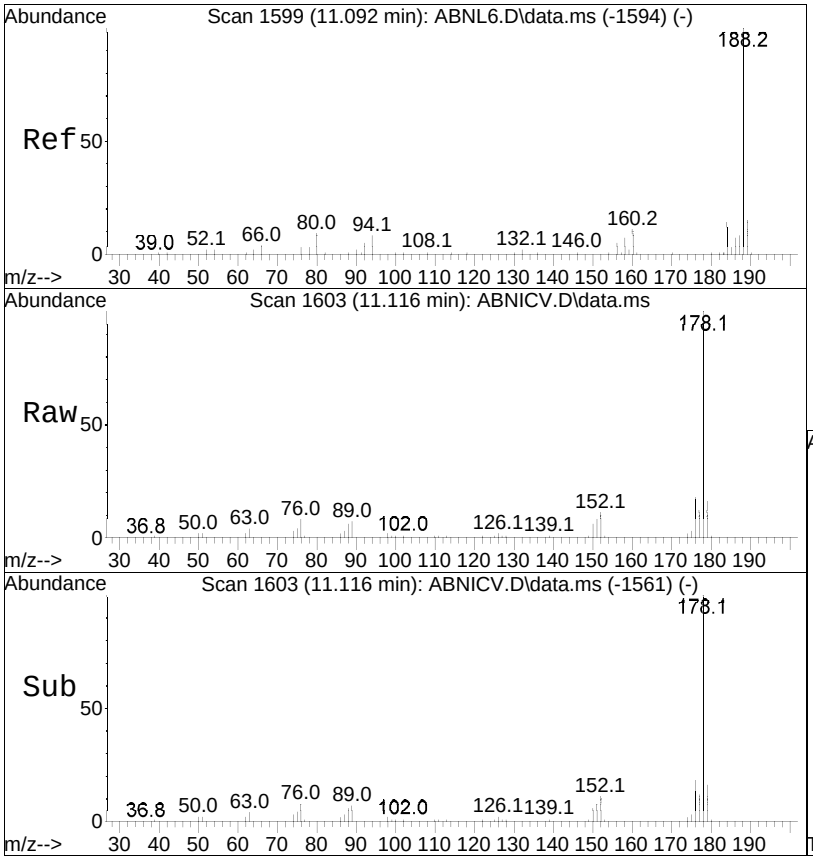


#82
Pentachlorophenol
Concen: 5.23 ug/ml
RT: 10.927 min Scan# 1571
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:266 Resp: 35912

Ion	Ratio	Lower	Upper
266	100		
264	59.2	49.7	74.5
268	60.4	50.5	75.7

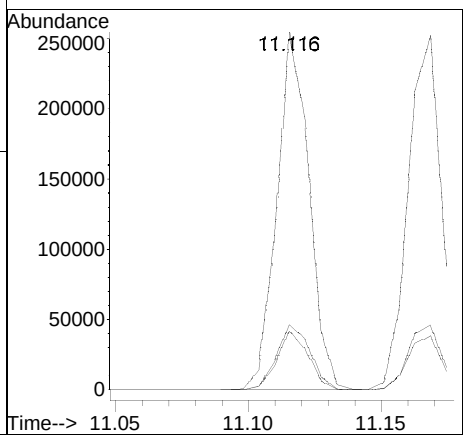


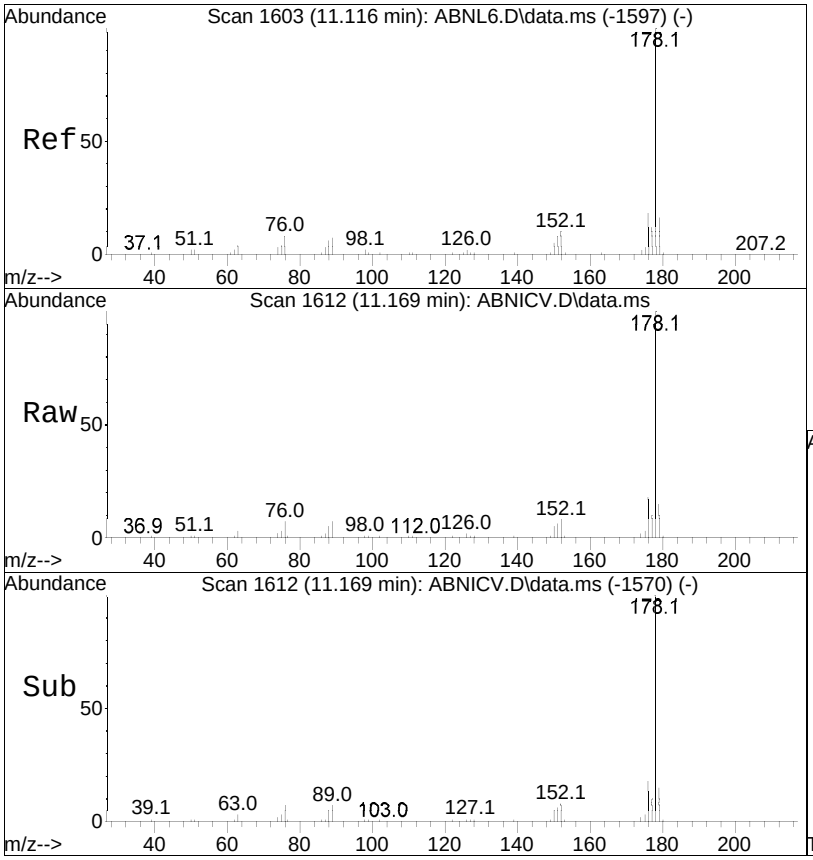


#89
Phenanthrene
Concen: 4.41 ug/ml
RT: 11.116 min Scan# 1603
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:178 Resp: 214102

Ion	Ratio	Lower	Upper
178	100		
179	16.1	12.2	18.2
176	18.9	15.4	23.2

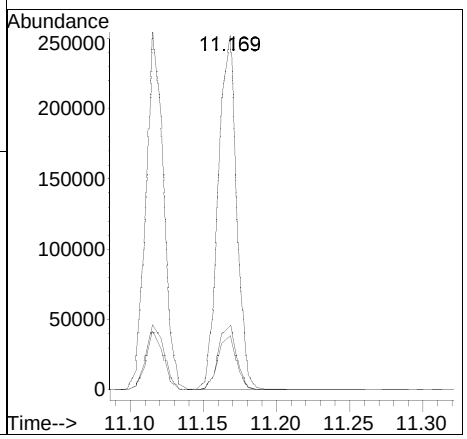


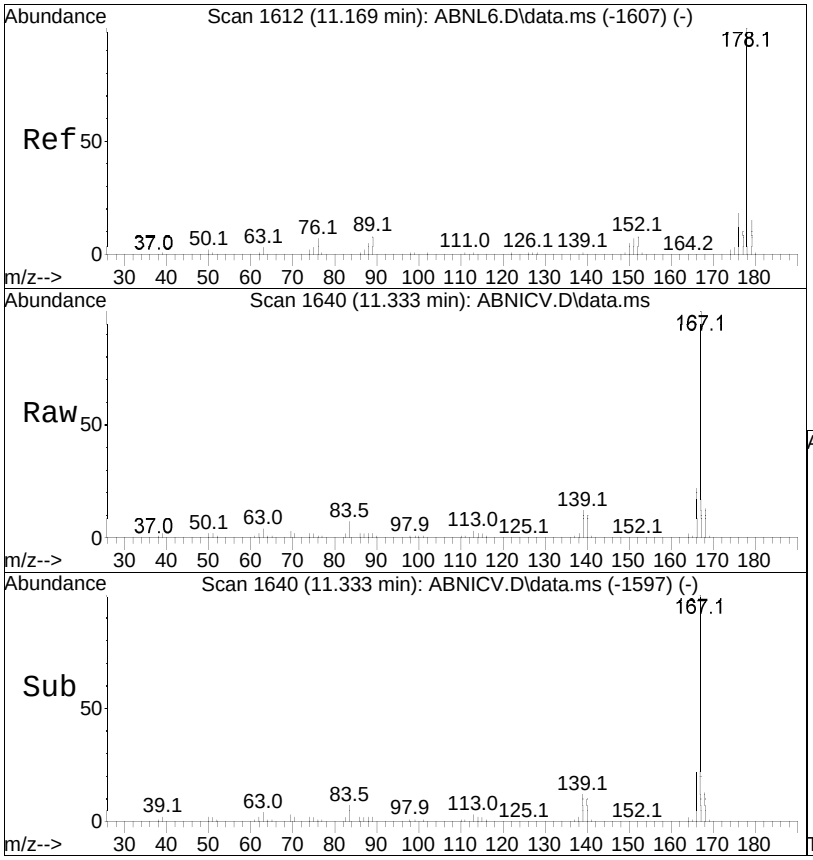


#90
Anthracene
Concen: 4.61 ug/ml
RT: 11.169 min Scan# 1612
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:178 Resp: 222491

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.0	18.0
176	18.3	14.6	22.0

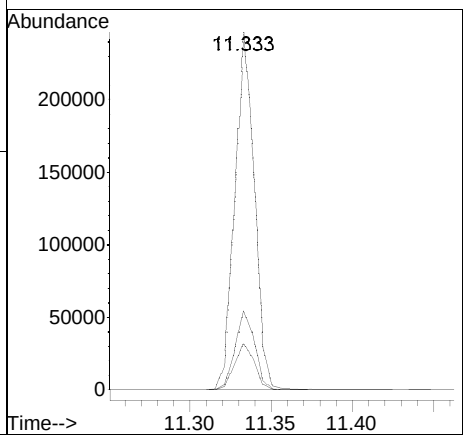


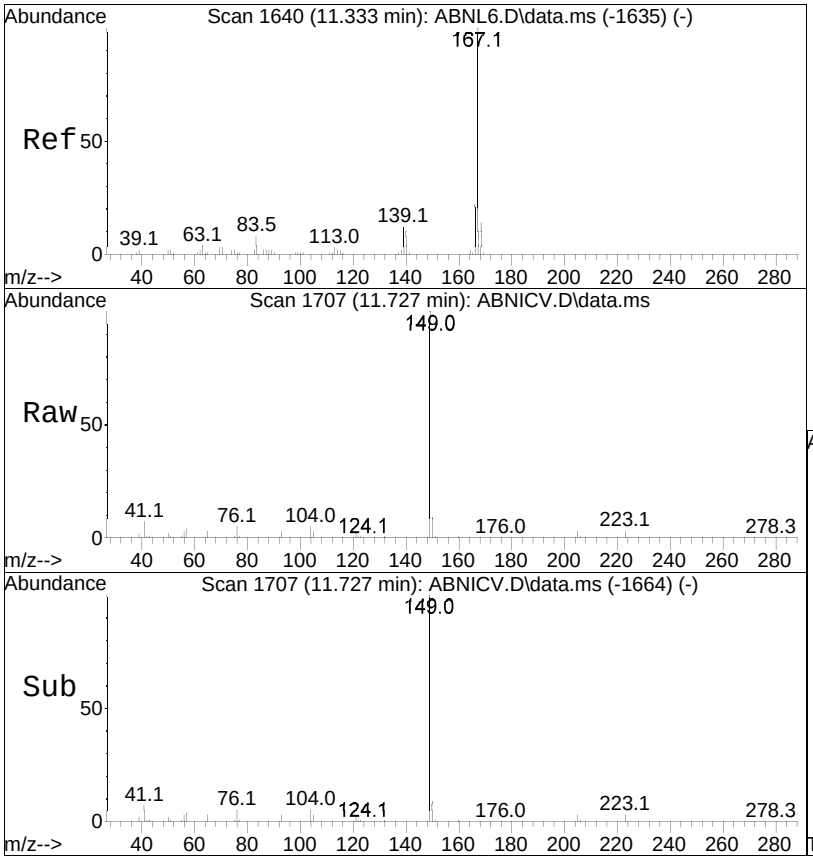


#91
Carbazole
Concen: 4.62 ug/ml
RT: 11.333 min Scan# 1640
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:167 Resp: 204021

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.2	17.4	26.0

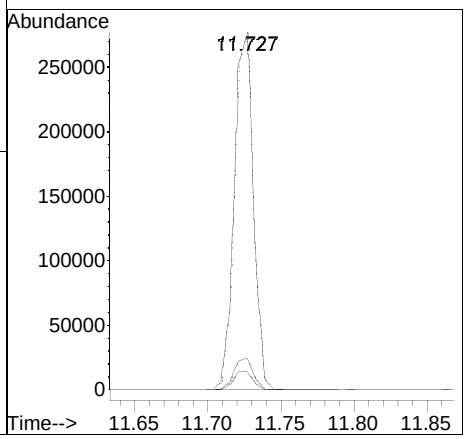


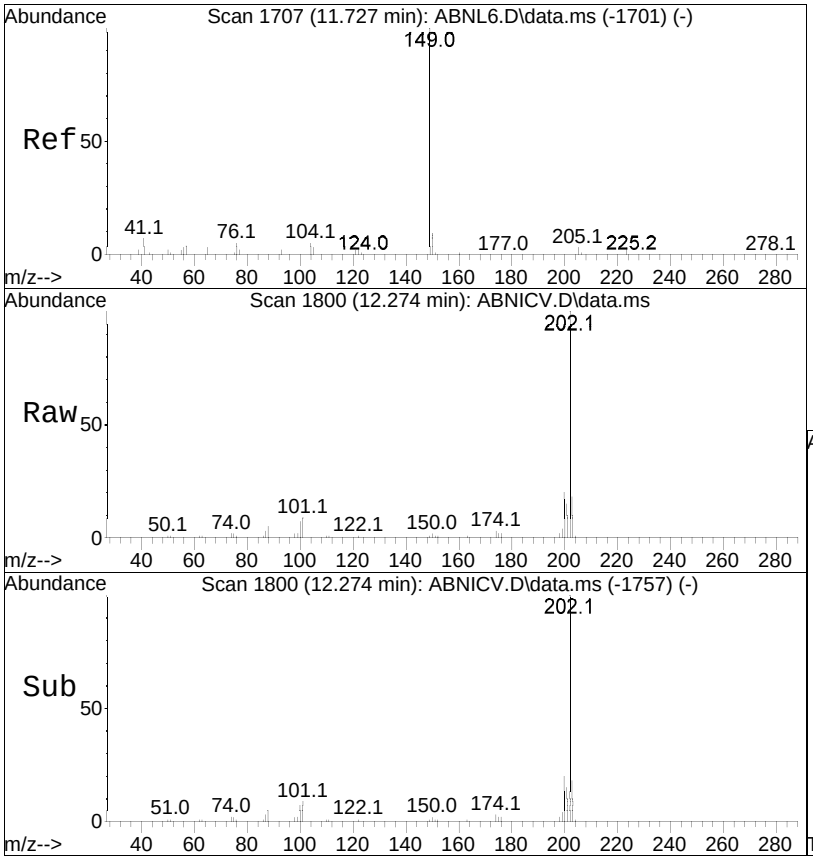


#92
Di-n-butylphthalate
Concen: 4.75 ug/ml
RT: 11.727 min Scan# 1707
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:149 Resp: 246456

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.0	10.6
104	5.4	4.5	6.7

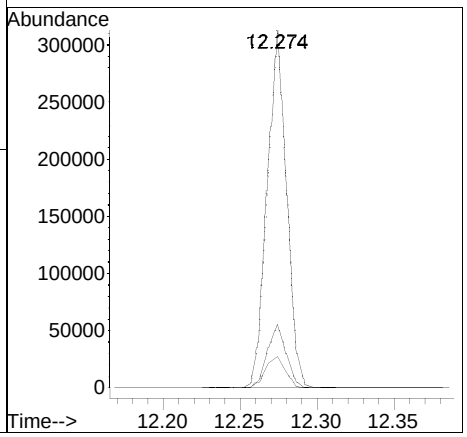


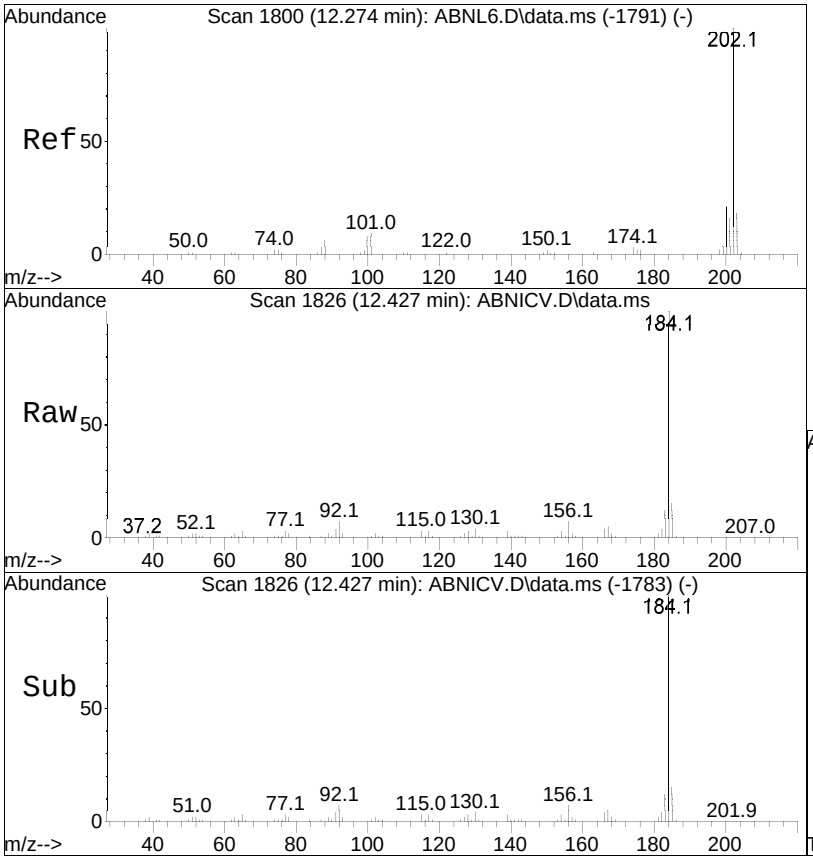


#93
Fluoranthene
Concen: 4.57 ug/ml
RT: 12.274 min Scan# 1800
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:202 Resp: 270824

Ion	Ratio	Lower	Upper
202	100		
101	9.2	13.5	20.3#
203	17.4	13.6	20.4

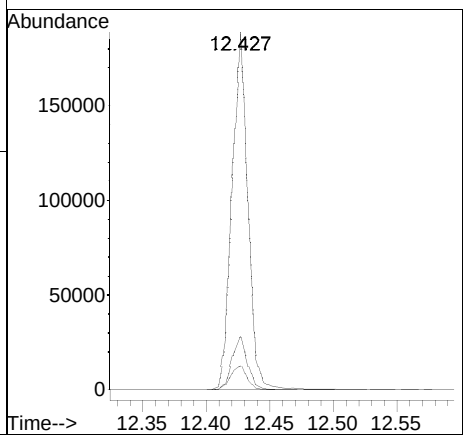


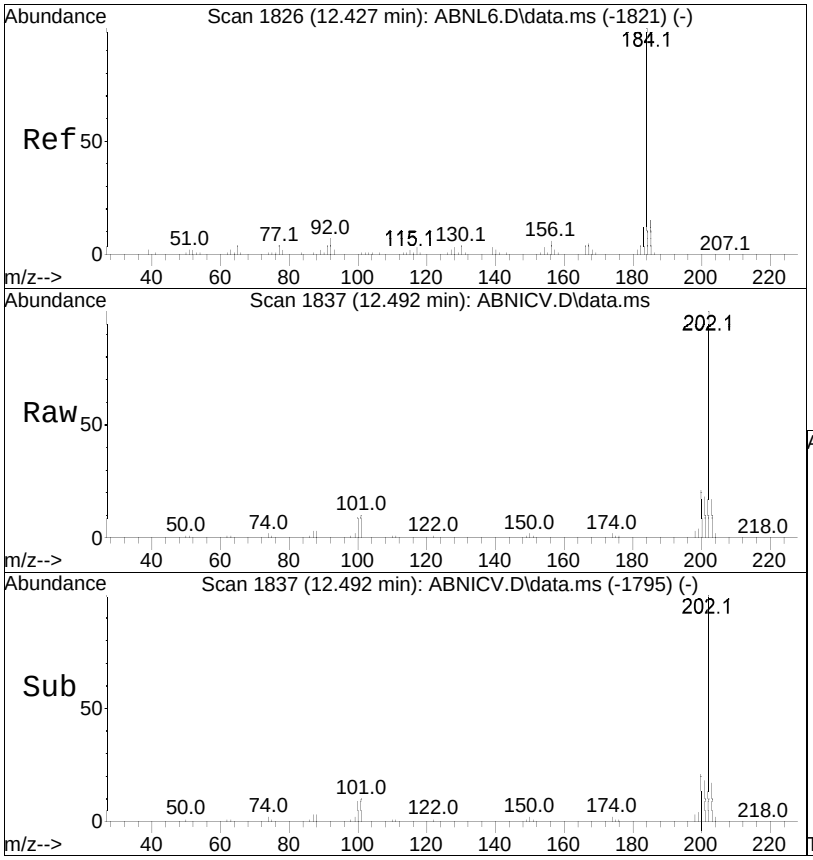


#94
Benzidine
Concen: 5.00 ug/ml
RT: 12.427 min Scan# 1826
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:184 Resp: 161127

Ion	Ratio	Lower	Upper
184	100		
92	7.1	9.1	13.7#
185	14.7	11.1	16.7

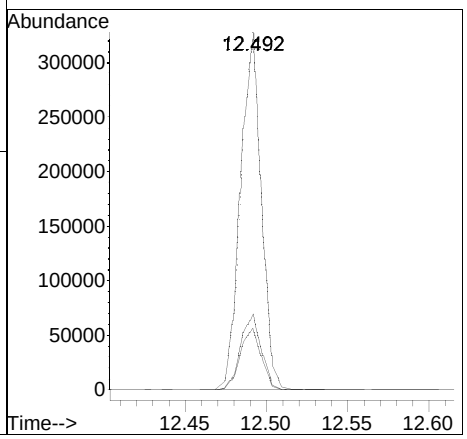


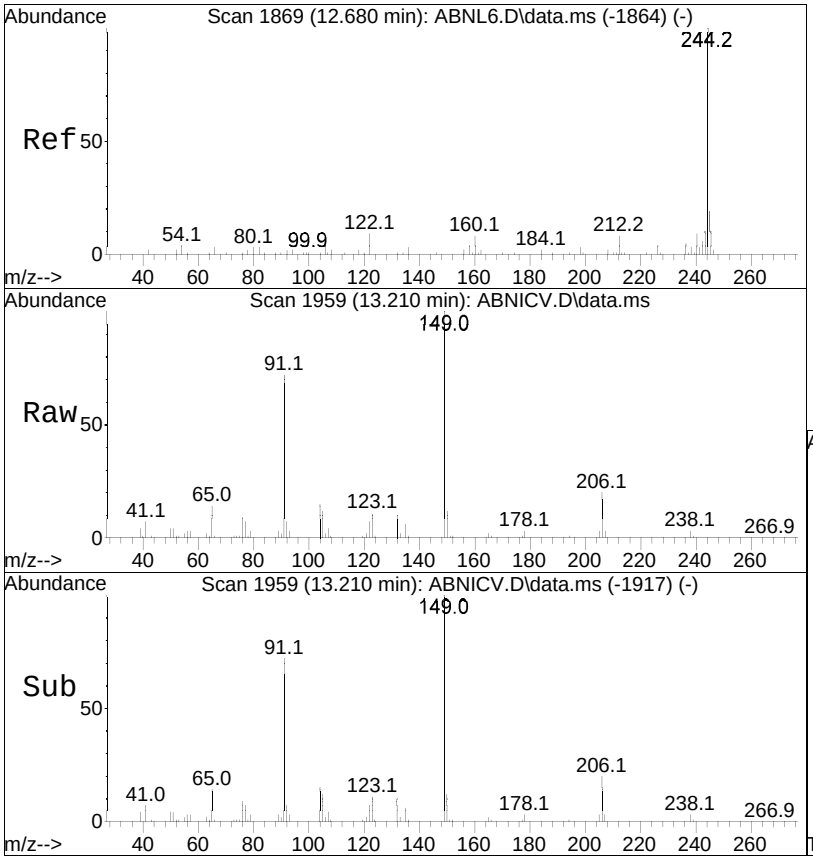


#95
Pyrene
Concen: 4.61 ug/ml
RT: 12.492 min Scan# 1837
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:202 Resp: 288357

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.7	25.1
203	17.6	14.2	21.4

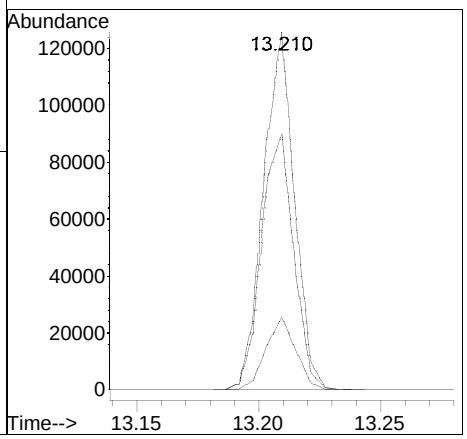


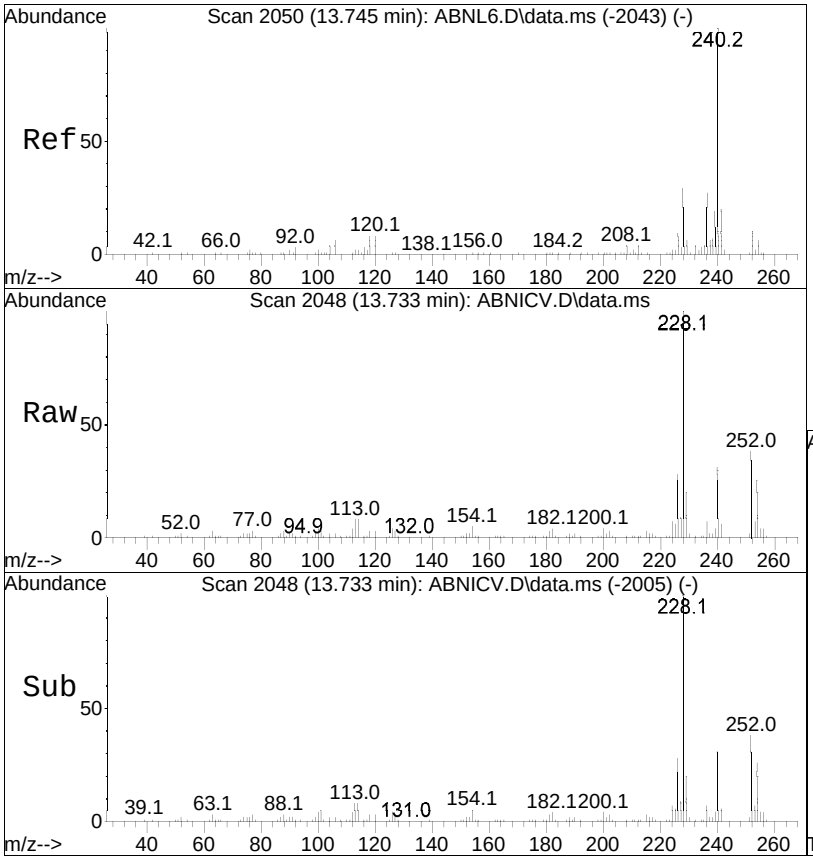


#97
Butyl benzyl phthalate
Concen: 4.59 ug/ml
RT: 13.210 min Scan# 1959
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:149 Resp: 109619

Ion	Ratio	Lower	Upper
149	100		
91	74.8	63.3	94.9
206	19.8	13.9	20.9

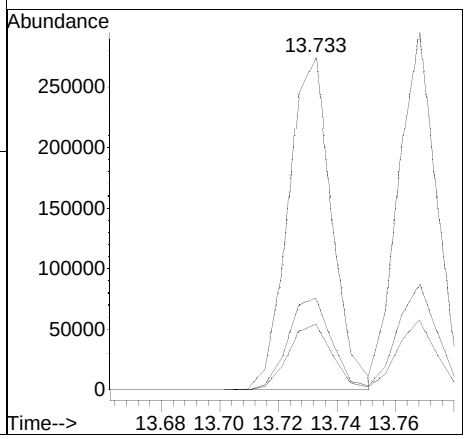


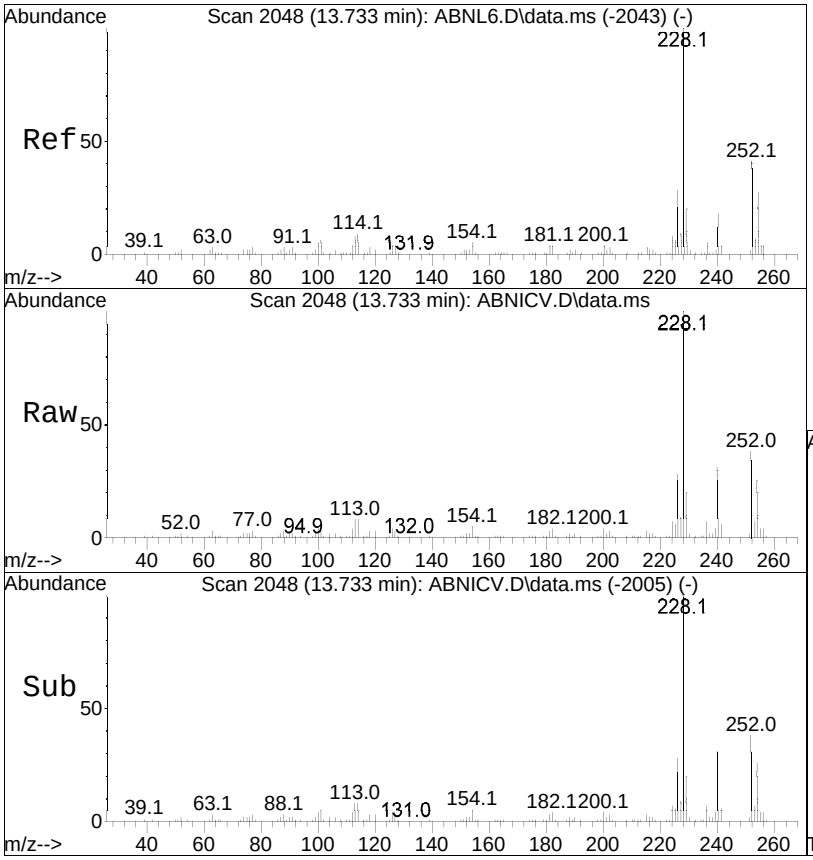


#105
Benzo(a)anthracene
Concen: 4.47 ug/ml
RT: 13.733 min Scan# 2048
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:228 Resp: 283411

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.4
229	20.0	15.6	23.4

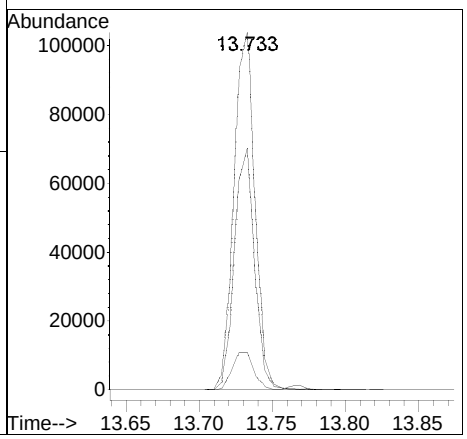


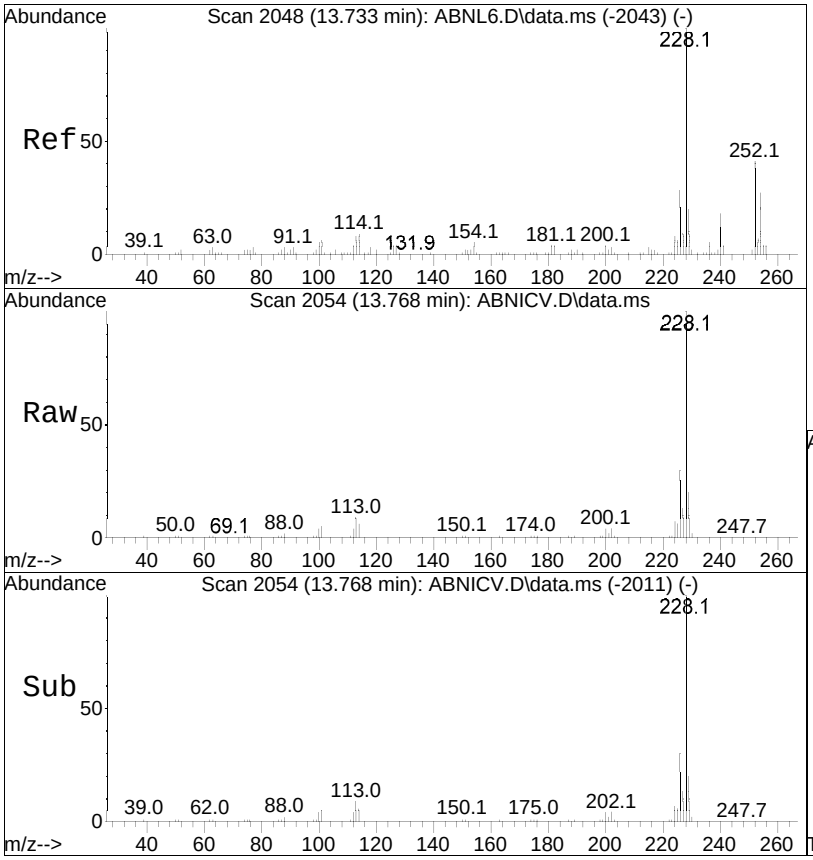


#106
3,3'-Dichlorobenzidine
Concen: 4.93 ug/ml
RT: 13.733 min Scan# 2048
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:252 Resp: 103514

Ion	Ratio	Lower	Upper
252	100		
126	11.0	14.5	21.7#
254	64.8	51.2	76.8

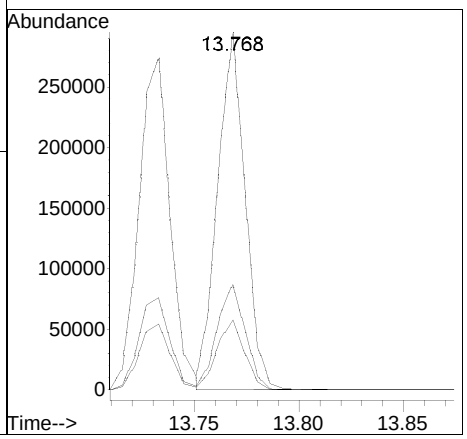


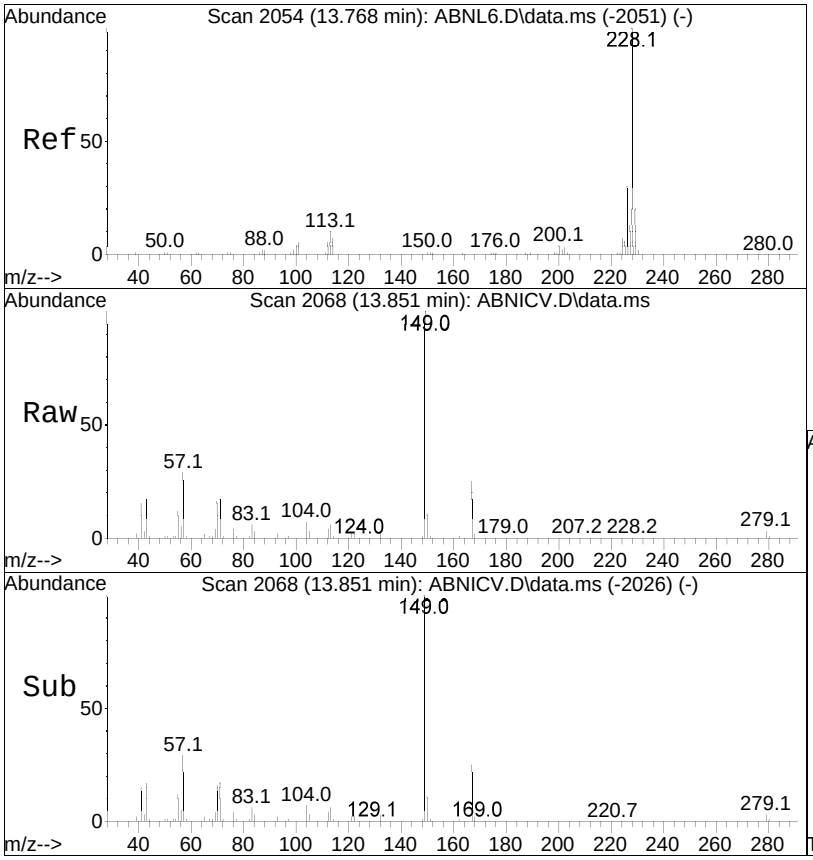


#107
Chrysene
Concen: 4.42 ug/ml
RT: 13.768 min Scan# 2054
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:228 Resp: 270744

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	19.5	15.8	23.8

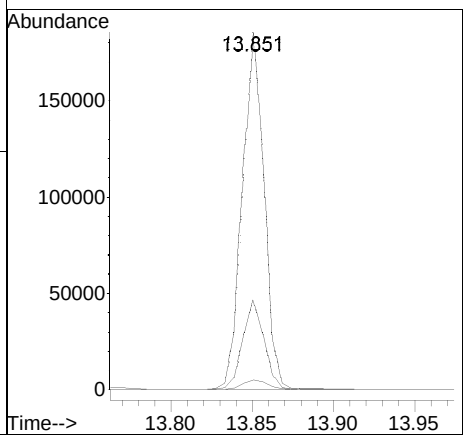


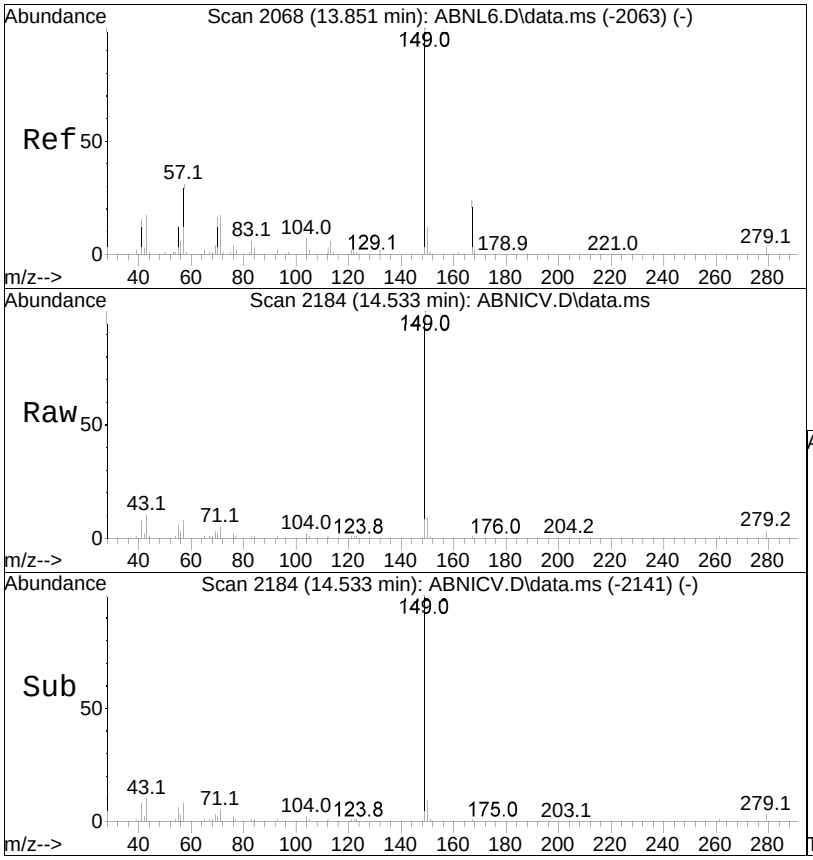


#108
Bis(2-ethylhexyl)phthalate
Concen: 4.86 ug/ml
RT: 13.851 min Scan# 2068
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:149 Resp: 170402

Ion	Ratio	Lower	Upper
149	100		
167	24.9	22.1	33.1
279	2.9	3.0	4.4#

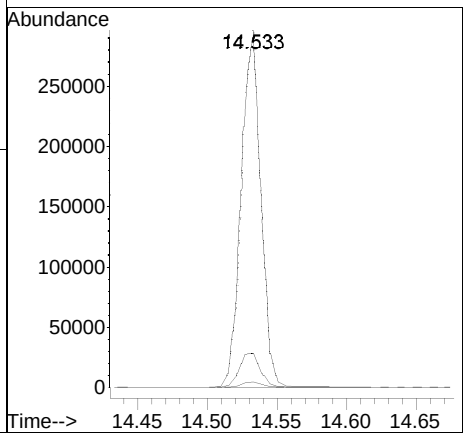


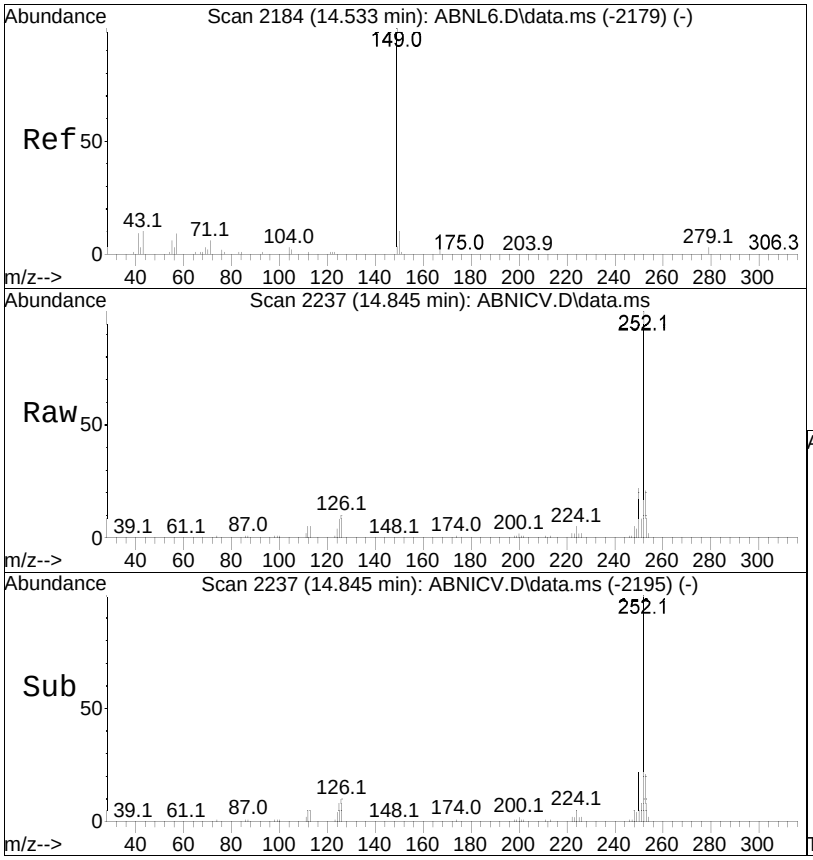


#109
Di-n-octylphthalate
Concen: 4.89 ug/ml
RT: 14.533 min Scan# 2184
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:149 Resp: 283833

Ion	Ratio	Lower	Upper
149	100		
43	10.5	18.8	28.2#
167	1.5	1.3	1.9

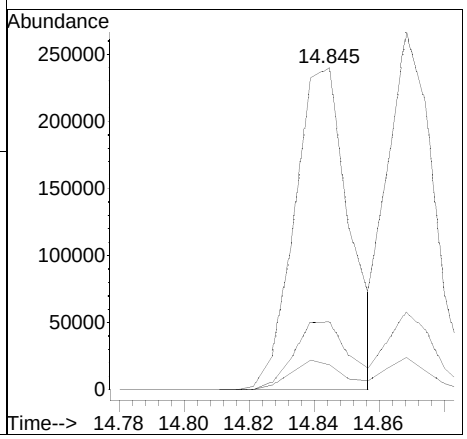


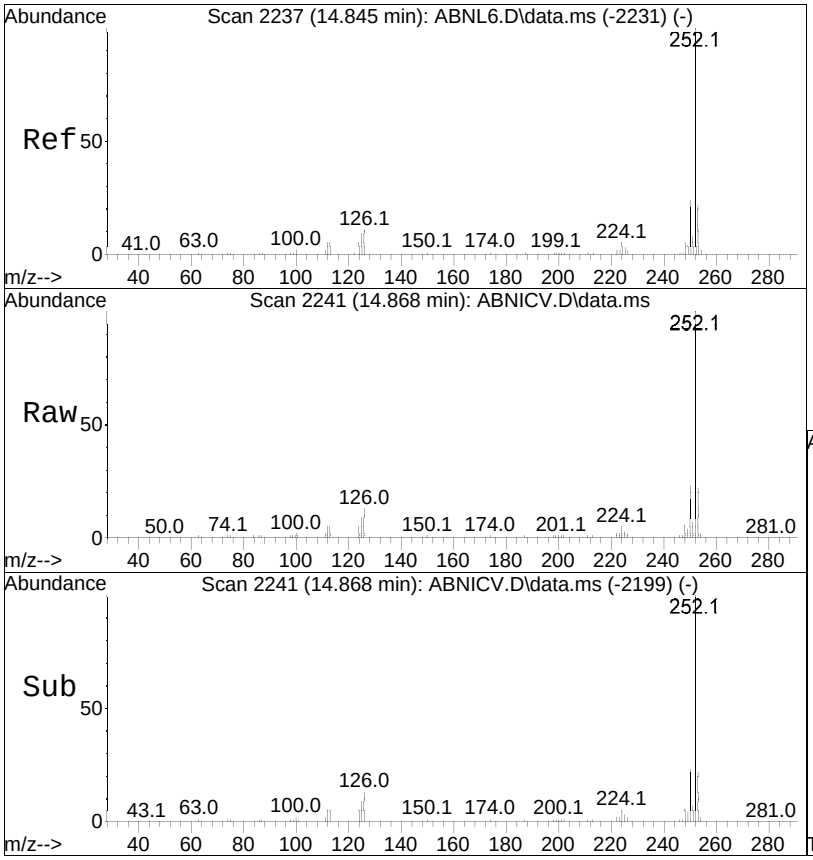


#110
Benzo(b)fluoranthene
Concen: 4.62 ug/ml
RT: 14.845 min Scan# 2237
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:252 Resp: 283245

Ion	Ratio	Lower	Upper
252	100		
125	9.1	13.3	19.9#
253	21.5	17.1	25.7

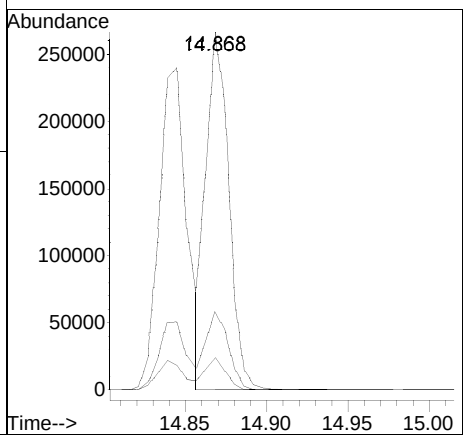


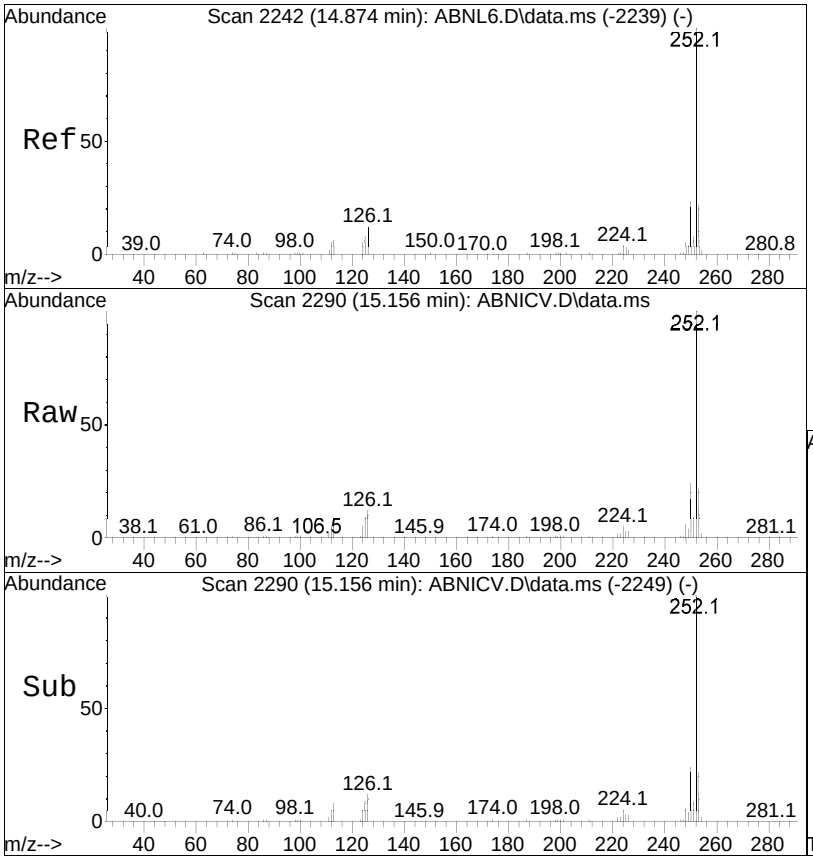


#111
Benzo(k)fluoranthene
Concen: 4.47 ug/ml
RT: 14.868 min Scan# 2241
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:252 Resp: 259962

Ion	Ratio	Lower	Upper
252	100		
125	8.1	13.0	19.6#
253	21.8	16.8	25.2

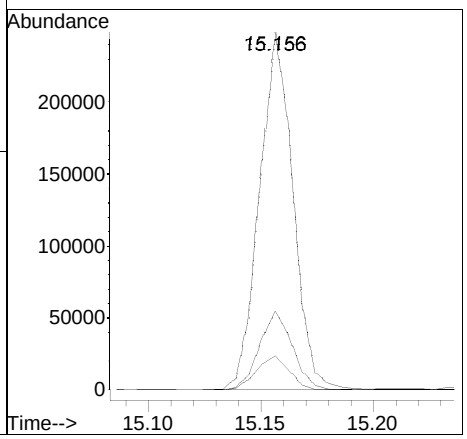


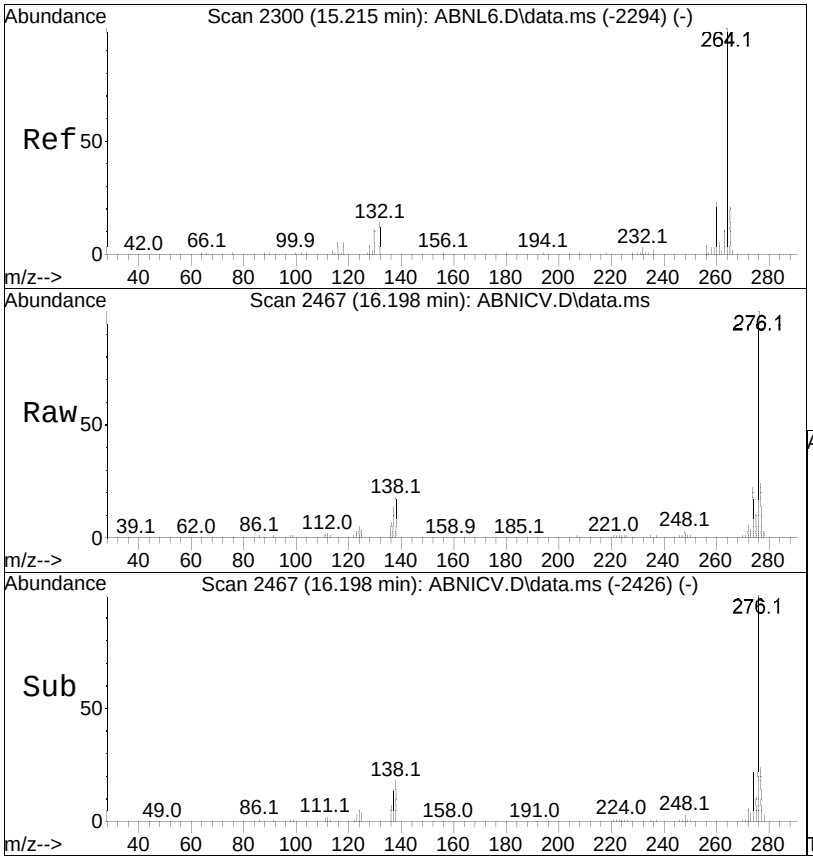


#112
Benzo(a)pyrene
Concen: 4.79 ug/ml
RT: 15.156 min Scan# 2290
Delta R.T. -0.007 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:252 Resp: 255240

Ion	Ratio	Lower	Upper
252	100		
125	9.6	14.2	21.2#
253	22.2	16.9	25.3

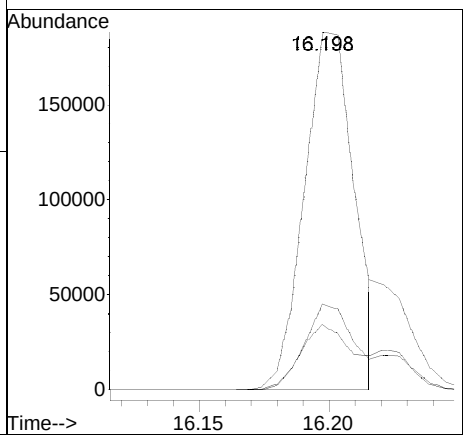


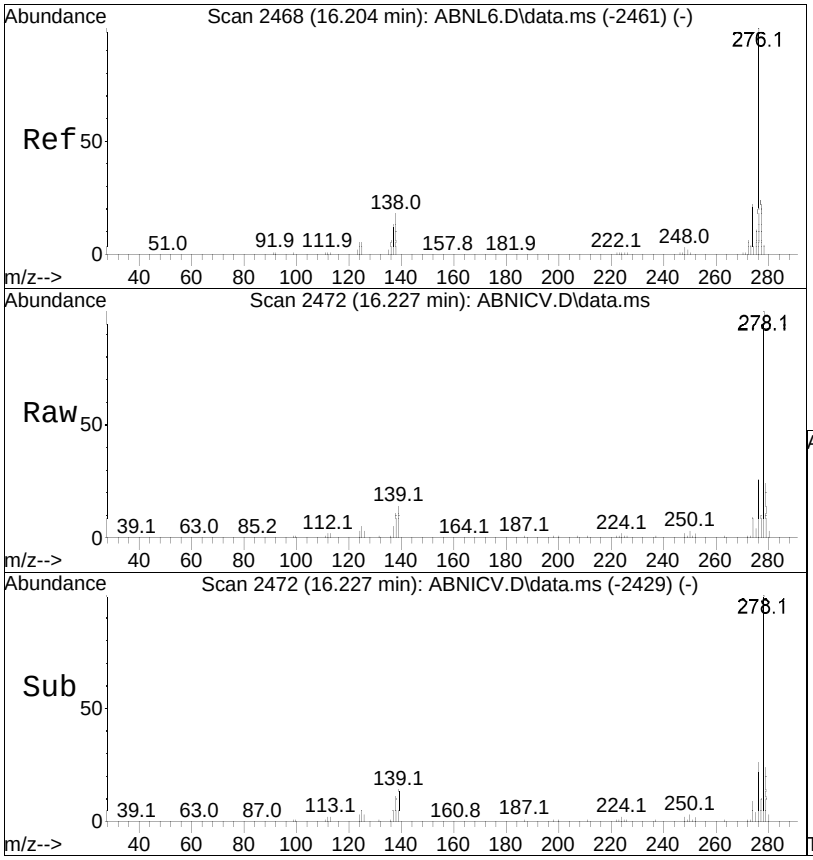


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.89 ug/mL M6
RT: 16.198 min Scan# 2467
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:276 Resp: 251892

Ion	Ratio	Lower	Upper
276	100		
138	27.5	25.1	37.7
277	31.3	18.6	28.0#

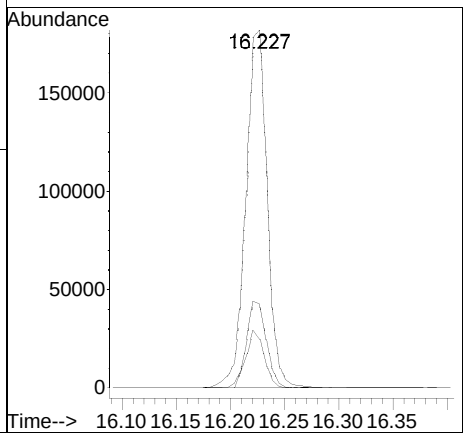


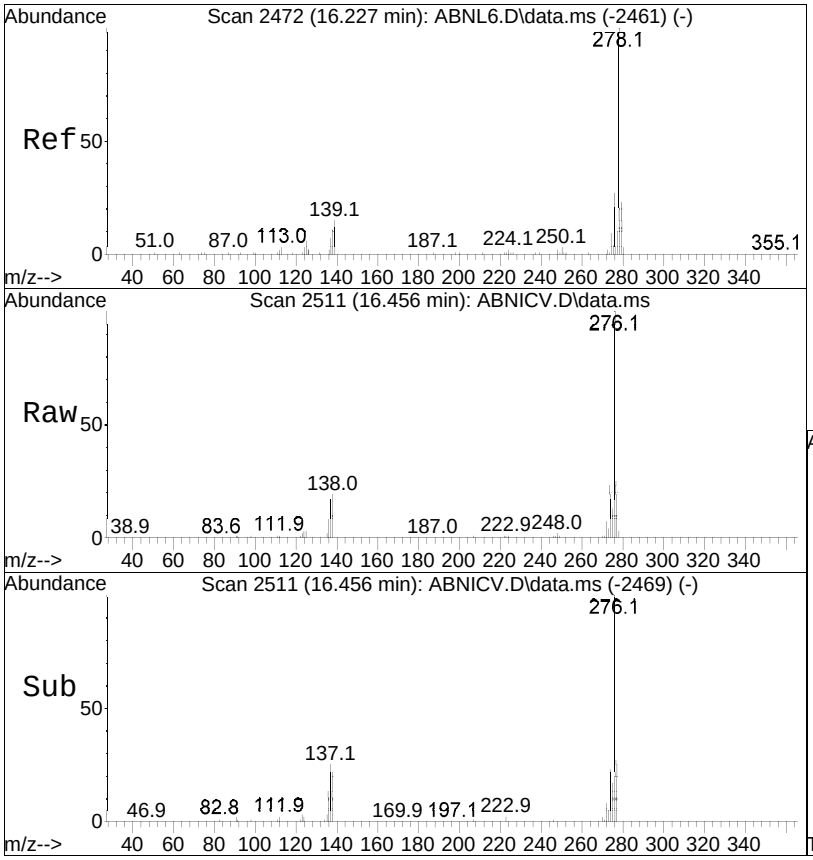


#115
Dibenzo(a,h)anthracene
Concen: 5.00 ug/ml
RT: 16.227 min Scan# 2472
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:278 Resp: 248022

Ion	Ratio	Lower	Upper
278	100		
139	13.9	20.8	31.2#
279	23.1	18.3	27.5

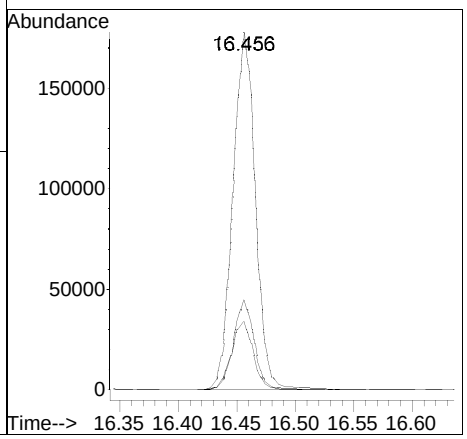




#116
Benzo(ghi)perylene
Concen: 5.13 ug/ml
RT: 16.456 min Scan# 2511
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 25 Jun 2024 12:03 am

Tgt Ion:276 Resp: 235381

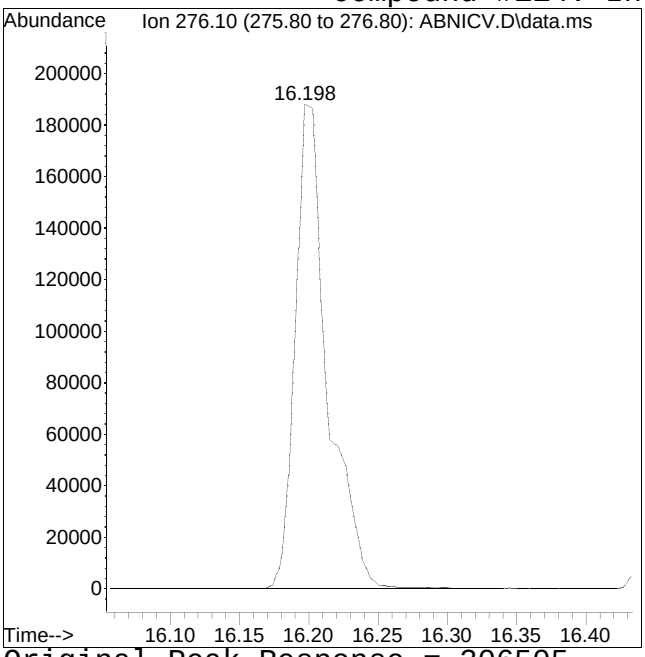
Ion	Ratio	Lower	Upper
276	100		
138	18.7	29.2	43.8#
277	23.4	18.8	28.2



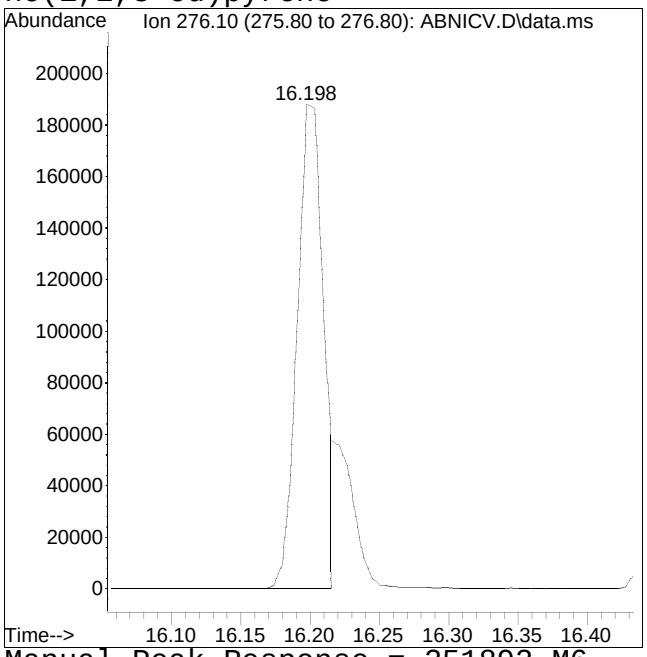
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ABNICV.D Operator : SV106:ljg
Date Inj'd : 6/25/2024 12:03 am Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 108Quant Date : 6/25/2024 6:33 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 306505



Manual Peak Response = 251892 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9ICV.D
Acq On : 25 Jun 2024 12:27 am
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1939040
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 06:34:07 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
28	T	Benzaldehyde	1.187	1.160	2.3	95	0.00
29	T	Acetophenone	2.158	2.023	6.3	91	0.00
30	T	m-Toluidine	1.957	1.877	4.1	93	0.00
31	T	2-Chloroaniline	1.709	1.610	5.8	91	0.00
55	I	IS2_Naphthalene-d8	1.000	1.000	0.0	94	0.00
56	T	a-Terpineol	0.400	0.364	9.0	87	0.00
57	T	3-Chloroaniline	0.201	0.203	-1.0	96	0.00
58	T	2,6-Dichlorophenol	0.362	0.343	5.2	86	0.00
59	T	1-chloro-2-nitrobenzene	0.180	0.173	3.9	88	0.00
60	T	Caprolactam	0.210	0.198	5.7	83	0.00
61	T	1,2,4,5-Tetrachlorobenzene	0.548	0.493	10.0	87	0.00
62	T	Biphenyl	1.084	0.982	9.4	87	0.00
83	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	93	0.00
84	T	Dichloran	0.247	0.224	9.3	79	0.00
85	T	Pentachloronitrobenzene	0.270	0.251	7.0	80	0.00
98	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	87	0.00
99	T	Diphenamid	0.561	0.515	8.2	78	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9ICV.D
Acq On : 25 Jun 2024 12:27 am
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1939040
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 06:34:07 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.463	152	30658	4.000	ug/ml	0.00
Standard Area 1 = 32042			Recovery = 95.68%			
55) IS2_Naphthalene-d8	7.886	136	107328	4.000	ug/ml	# 0.00
Standard Area 1 = 114213			Recovery = 93.97%			
83) IS2_Acenaphthene-d10	9.651	164	67752	4.000	ug/ml	0.00
Standard Area 1 = 73214			Recovery = 92.54%			
98) IS2_Phenanthrene-d10	11.092	188	149597	4.000	ug/ml	0.00
Standard Area 1 = 172677			Recovery = 86.63%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.887	105	44470	4.886	ug/ml	100
29) Acetophenone	6.957	105	77542	4.688	ug/ml#	83
30) m-Toluidine	7.057	106	71933	4.796	ug/ml	94
31) 2-Chloroaniline	7.463	127	61713	4.711	ug/ml	97
56) a-Terpineol	7.963	59	48862	4.551	ug/ml#	85
57) 3-Chloroaniline	7.975	65	27239	5.059	ug/ml#	64
58) 2,6-Dichlorophenol	7.998	162	46077	4.748	ug/ml	94
59) 1-chloro-2-nitrobenzene	8.269	111	23253	4.809	ug/ml#	1
60) Caprolactam	8.304	55	26621	4.724	ug/ml#	78
61) 1,2,4,5-Tetrachloroben...	8.804	216	66156	4.495	ug/ml	98
62) Biphenyl	9.104	154	131777	4.530	ug/ml	99
84) Dichloran	10.792	206	19006	4.541	ug/ml#	66
85) Pentachloronitrobenzene	10.939	237	21268	4.649	ug/ml#	74
99) Diphenamid	12.004	167	96271	4.586	ug/ml	83

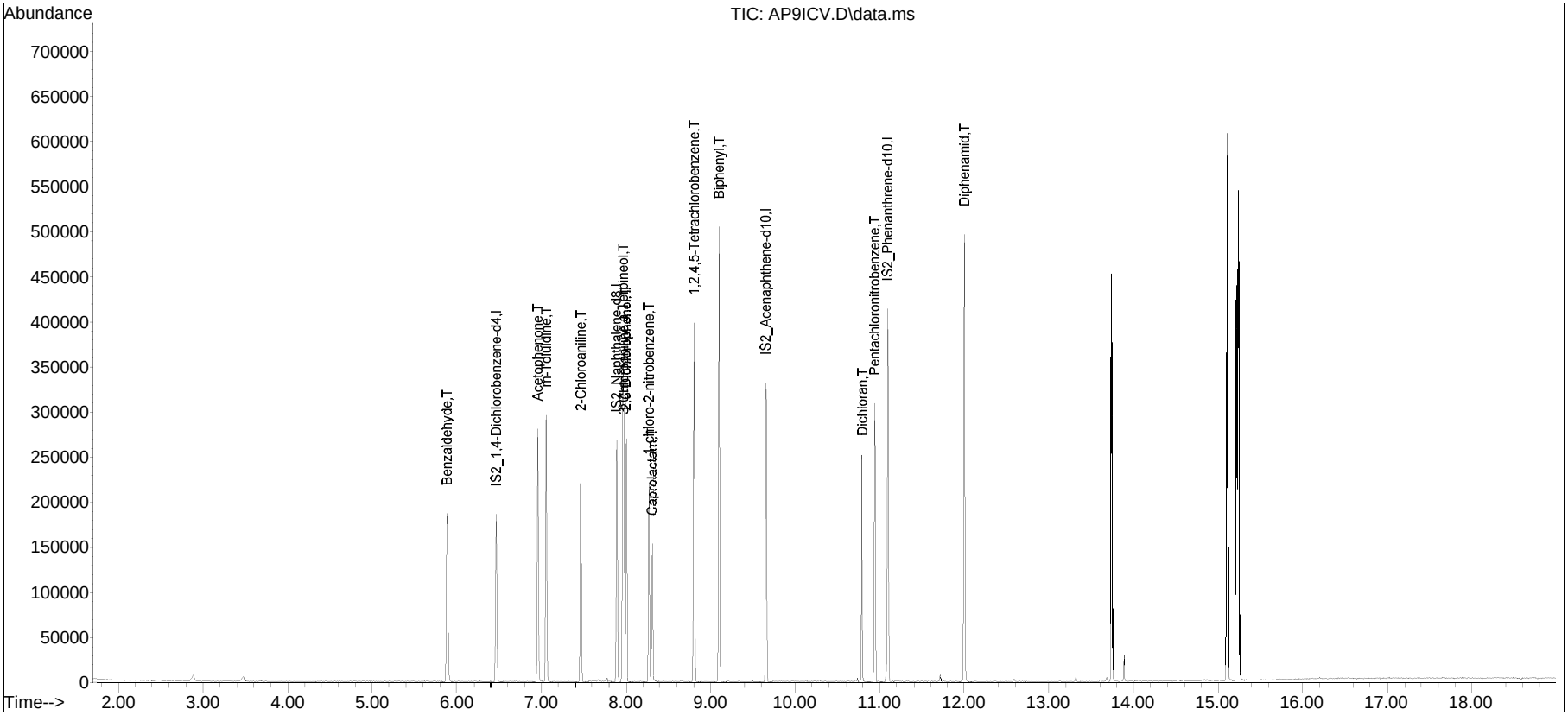
(#) = qualifier out of range (m) = manual integration (+) = signals summed

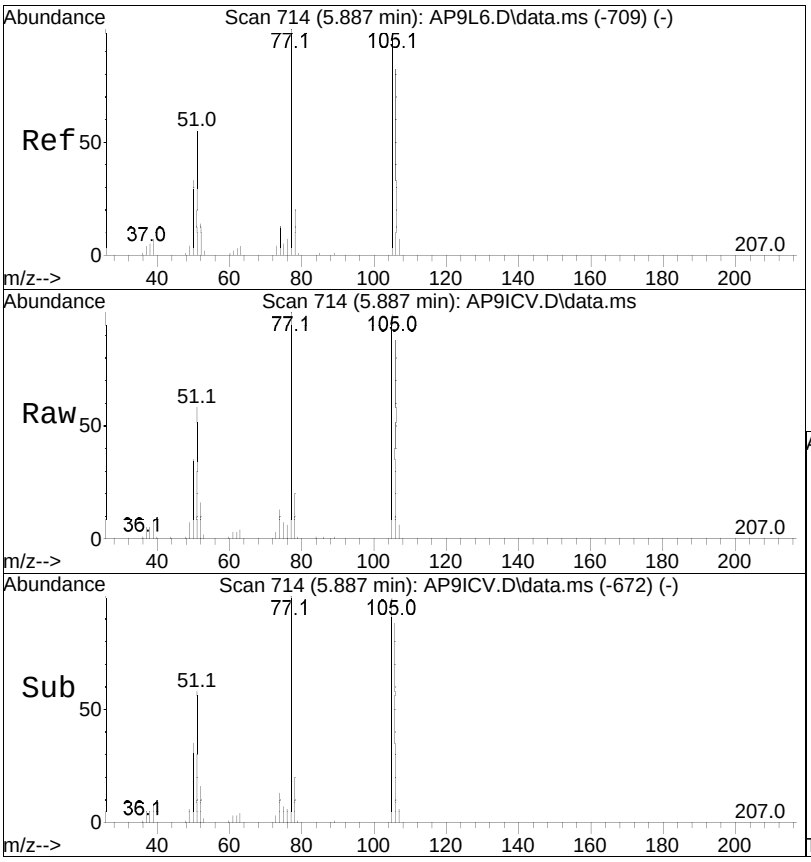
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : AP9ICV.D
Acq On : 25 Jun 2024 12:27 am
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 10806
Misc : WG1939040
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 06:34:07 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistTical\AP9L6.D•

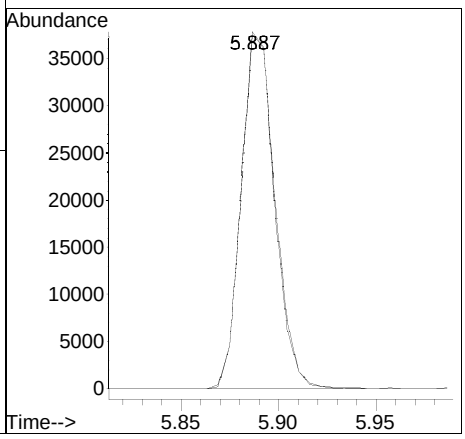


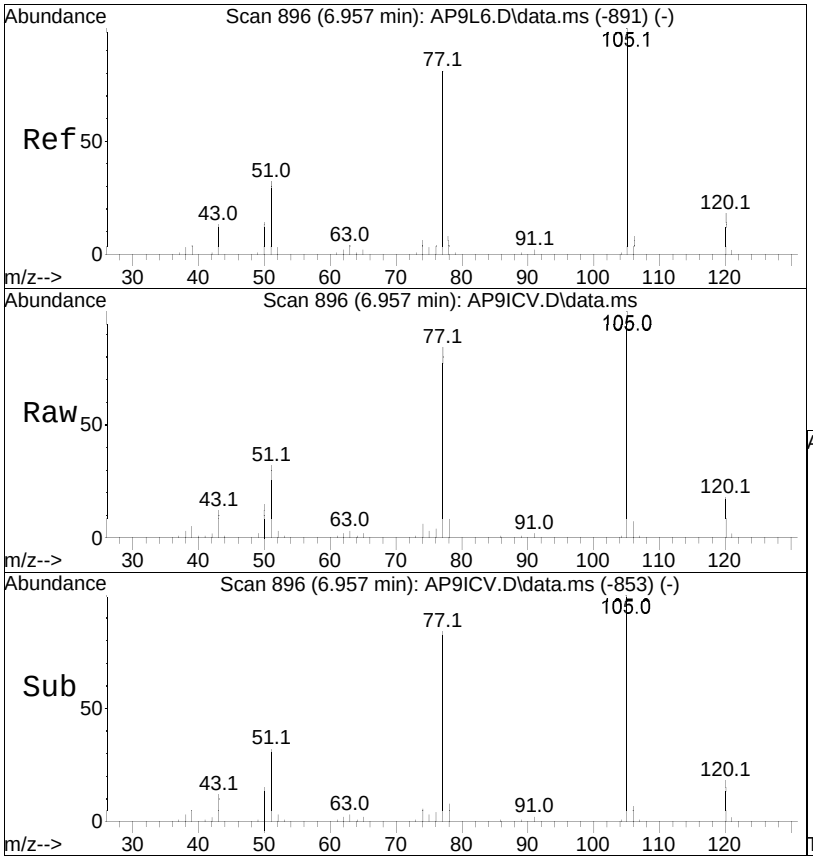


#28
Benzaldehyde
Concen: 4.89 ug/ml
RT: 5.887 min Scan# 714
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:105 Resp: 44470

Ion	Ratio	Lower	Upper
105	100		
77	102.6	82.2	123.4

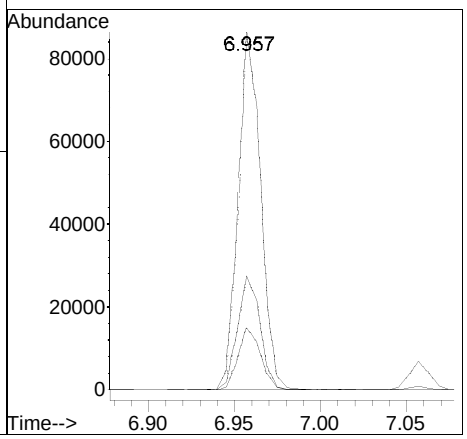


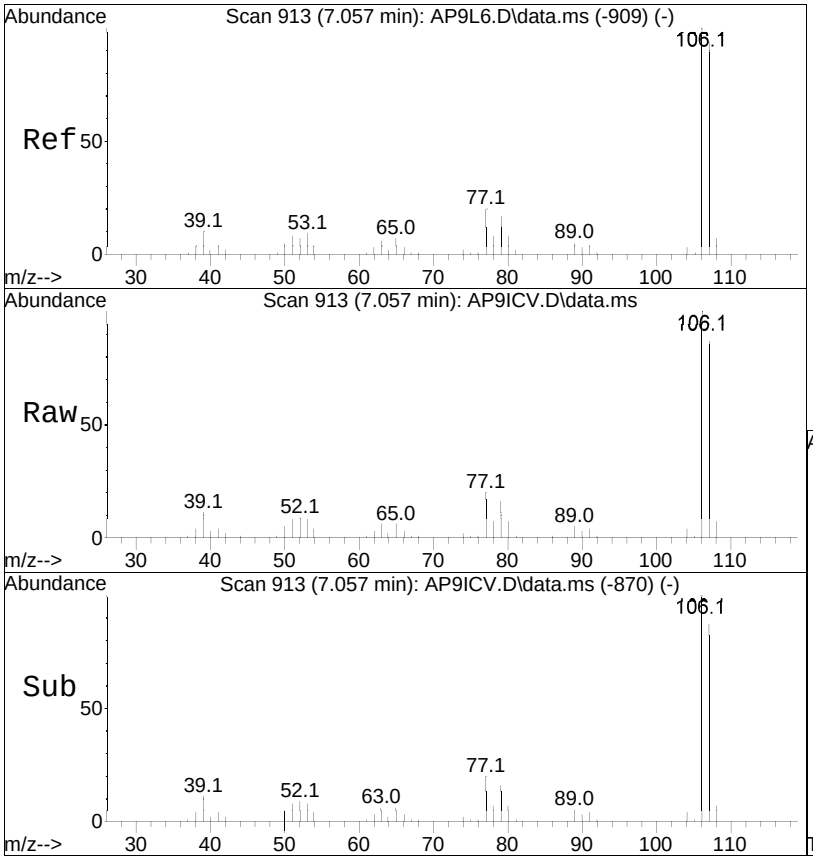


#29
Acetophenone
Concen: 4.69 ug/ml
RT: 6.957 min Scan# 896
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:105 Resp: 77542

Ion	Ratio	Lower	Upper
105	100		
120	17.7	20.5	30.7#
51	32.6	34.9	52.3#

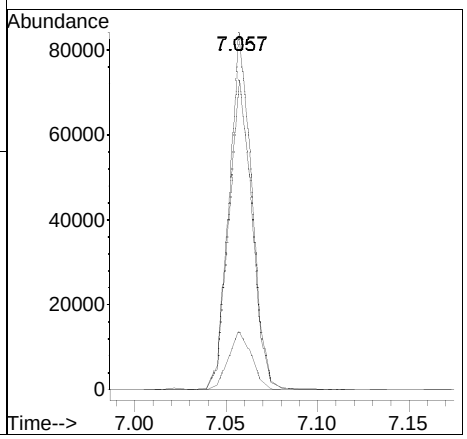


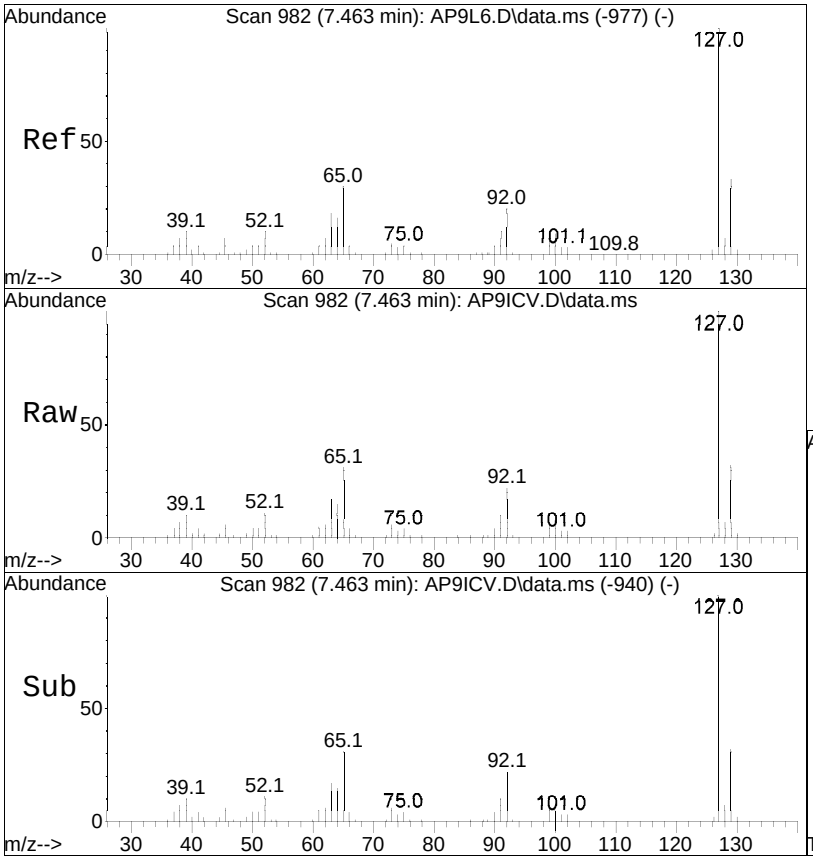


#30
m-Toluidine
Concen: 4.80 ug/ml
RT: 7.057 min Scan# 913
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:106 Resp: 71933

Ion	Ratio	Lower	Upper
106	100		
107	88.7	75.7	113.5
79	16.8	11.8	17.8

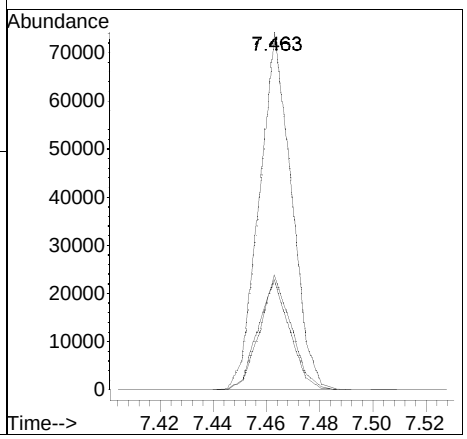


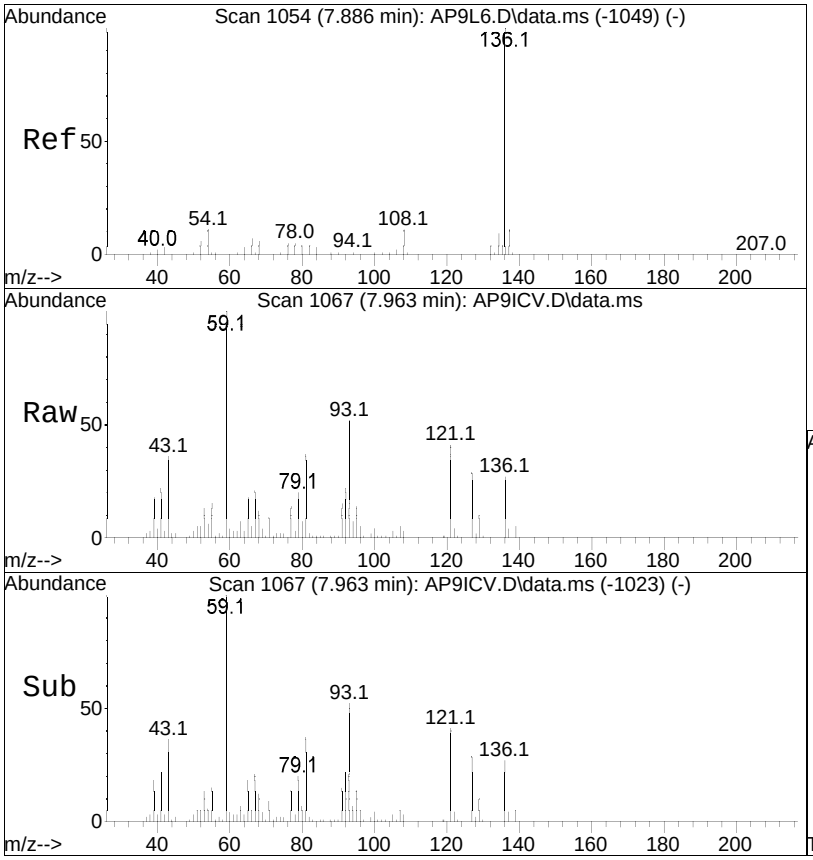


#31
2-Chloroaniline
Concen: 4.71 ug/ml
RT: 7.463 min Scan# 982
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:127 Resp: 61713

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.9	38.9
65	30.6	26.3	39.5

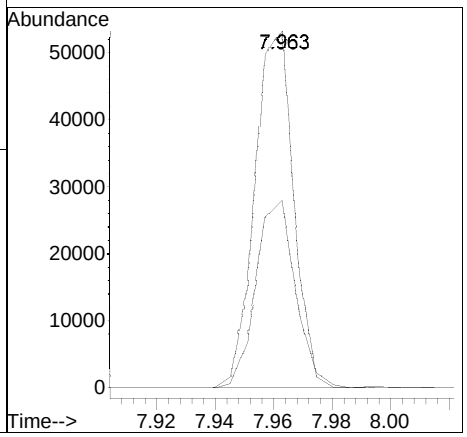


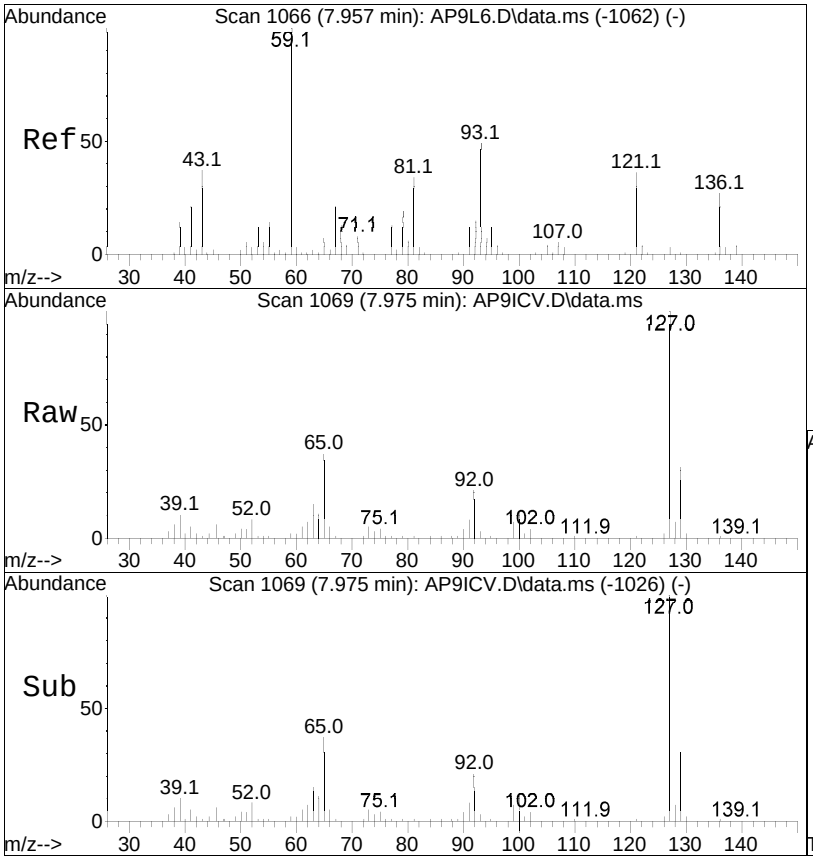


#56
a-Terpineol
Concen: 4.55 ug/ml
RT: 7.963 min Scan# 1067
Delta R.T. 0.006 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion: 59 Resp: 48862

Ion	Ratio	Lower	Upper
59	100		
93	54.3	35.6	53.4#

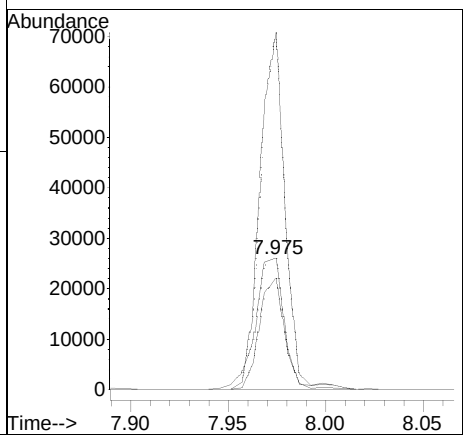


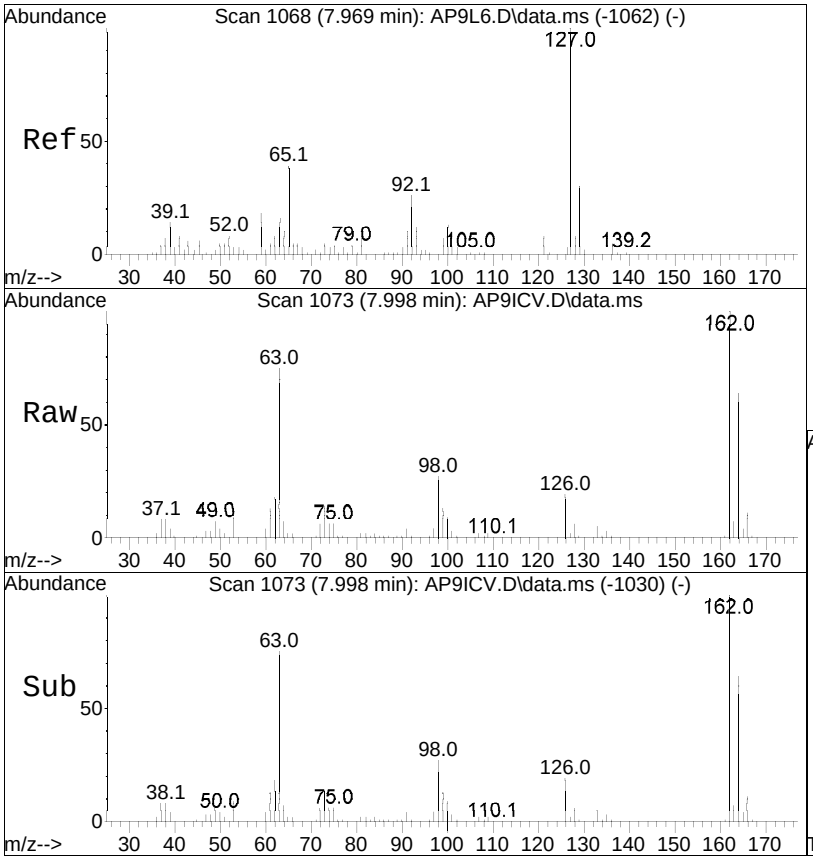


#57
3-Chloroaniline
Concen: 5.06 ug/ml
RT: 7.975 min Scan# 1069
Delta R.T. 0.006 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion: 65 Resp: 27239

Ion	Ratio	Lower	Upper
65	100		
127	227.1	243.2	364.8#
129	73.0	78.8	118.2#

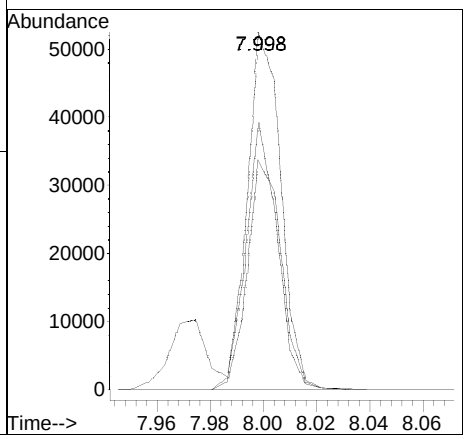


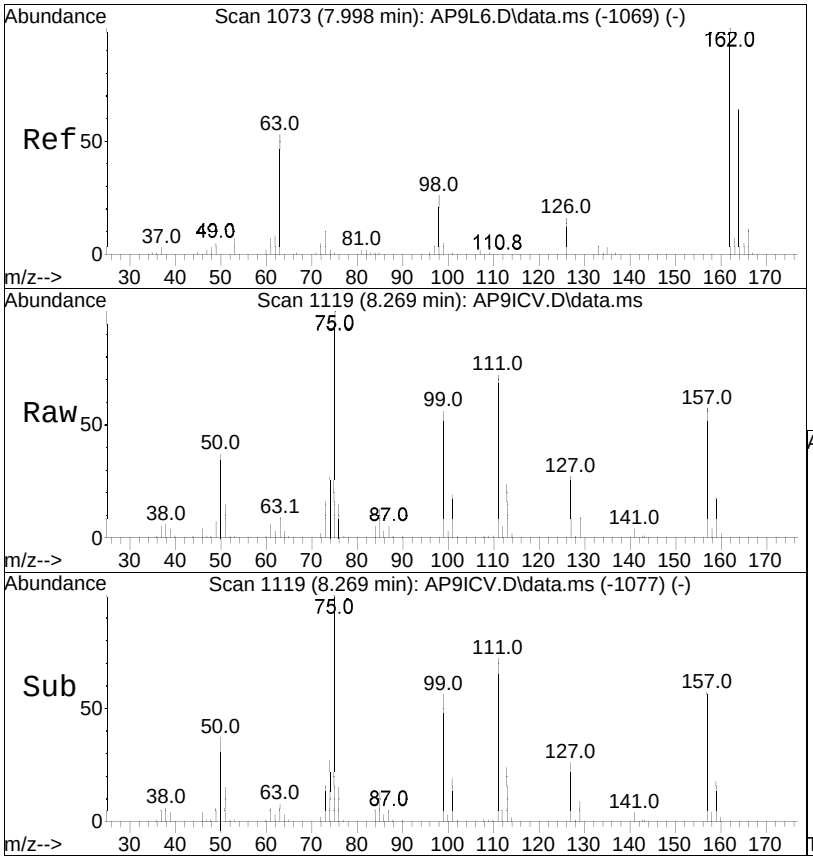


#58
2,6-Dichlorophenol
Concen: 4.75 ug/ml
RT: 7.998 min Scan# 1073
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:162 Resp: 46077

Ion	Ratio	Lower	Upper
162	100		
164	64.6	51.1	76.7
63	67.7	60.8	91.2

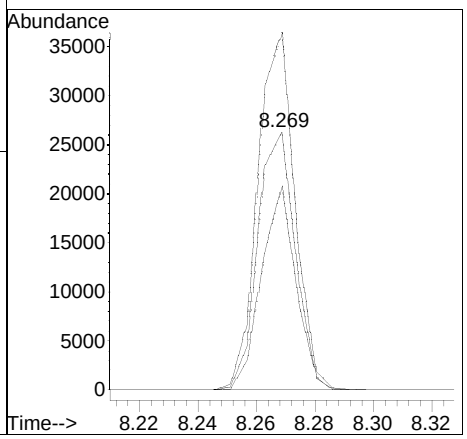


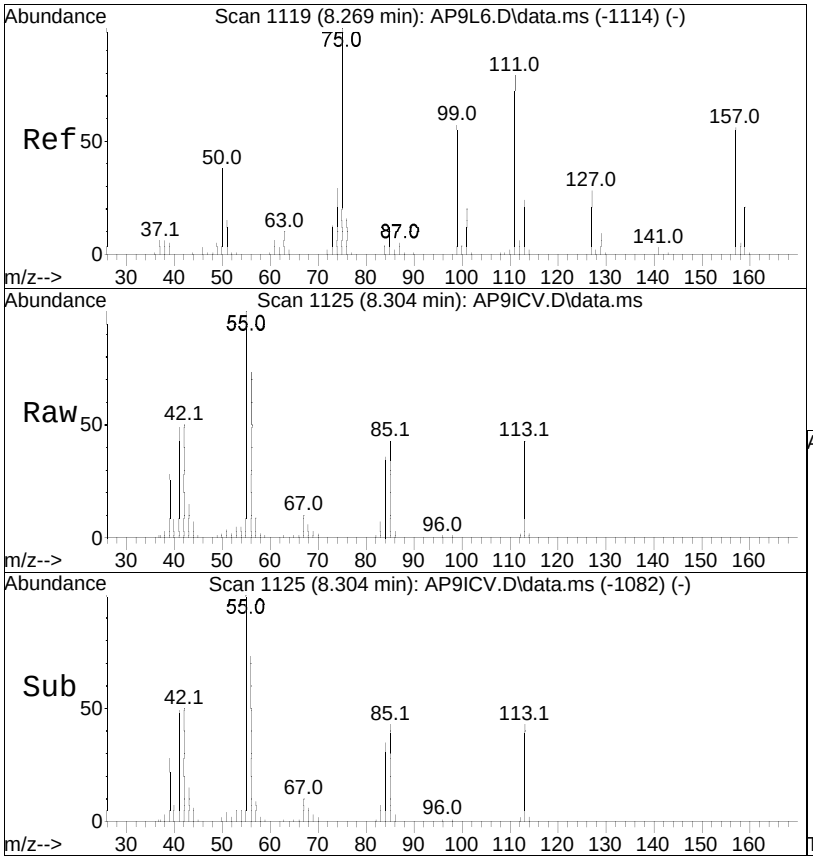


#59
1-chloro-2-nitrobenzene
Concen: 4.81 ug/ml
RT: 8.269 min Scan# 1119
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:111 Resp: 23253

Ion	Ratio	Lower	Upper
111	100		
157	72.8	0.0	0.0#
75	137.0	28.2	42.2#

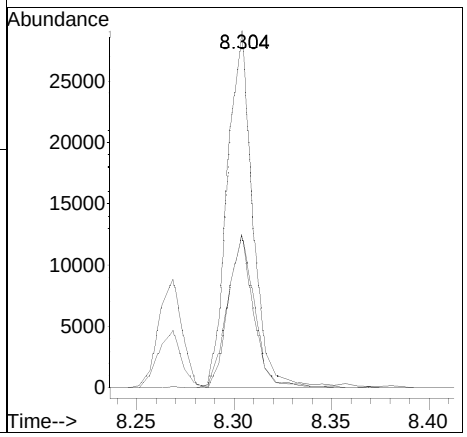


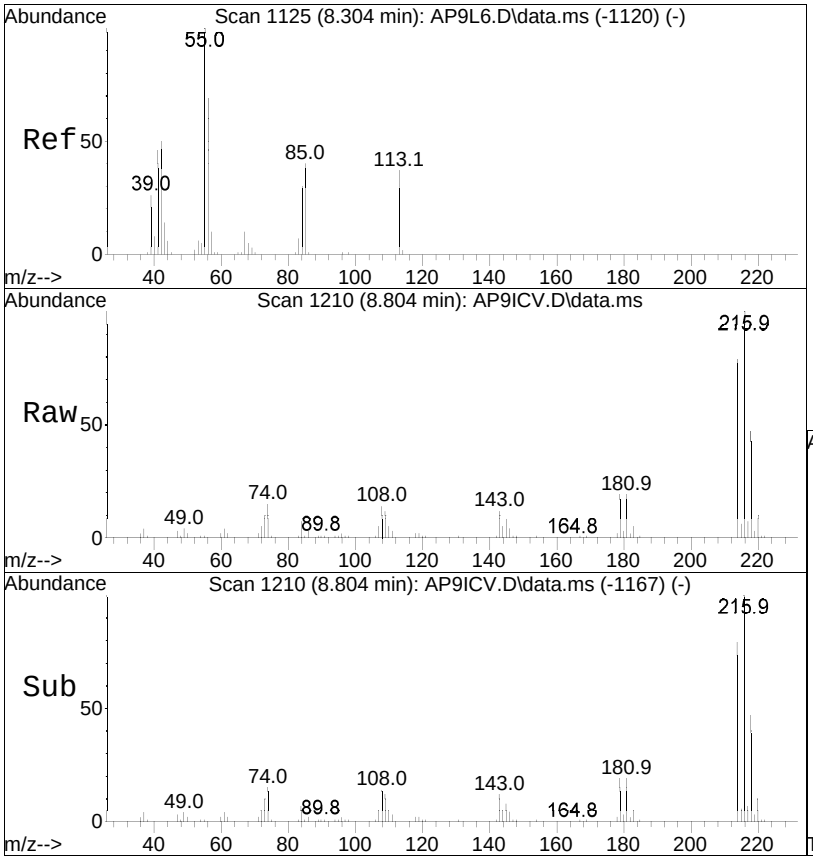


#60
Caprolactam
Concen: 4.72 ug/ml
RT: 8.304 min Scan# 1125
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion: 55 Resp: 26621

Ion	Ratio	Lower	Upper
55	100		
85	43.8	19.8	29.6#
113	43.8	29.6	44.4

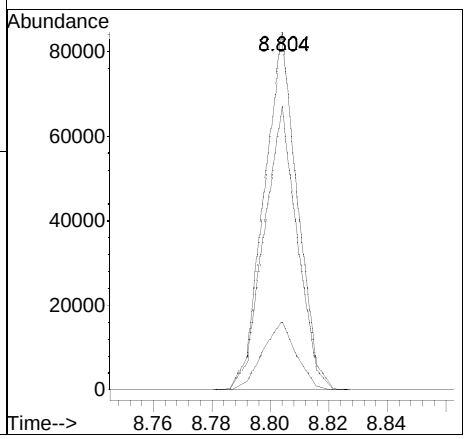


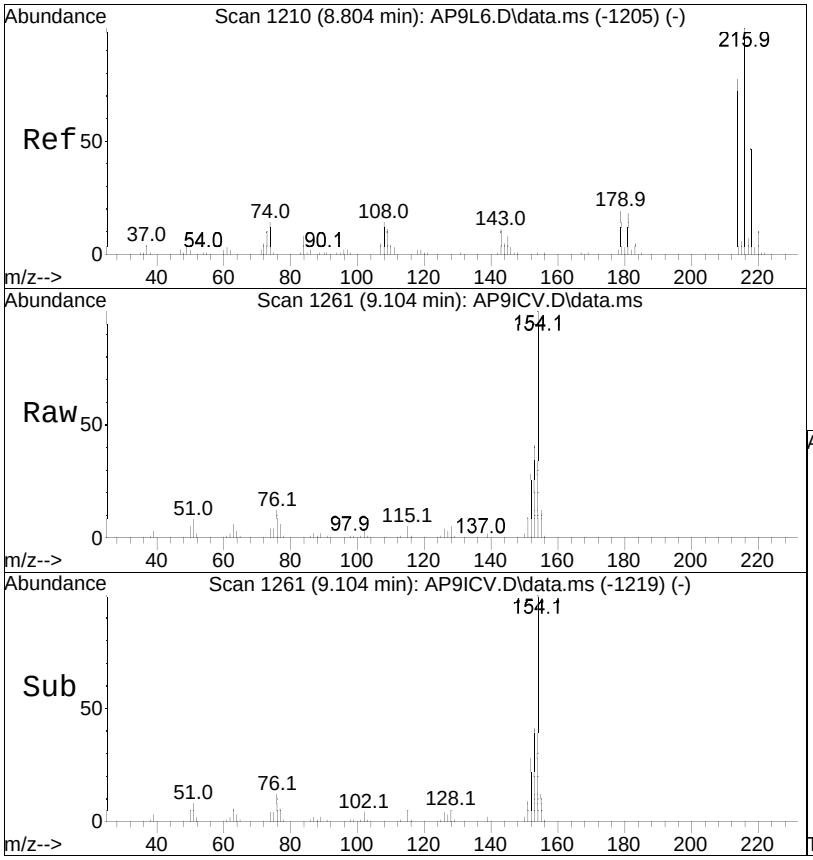


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.50 ug/ml
RT: 8.804 min Scan# 1210
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:216 Resp: 66156

Ion	Ratio	Lower	Upper
216	100		
214	79.5	63.7	95.5
179	19.3	19.0	28.6

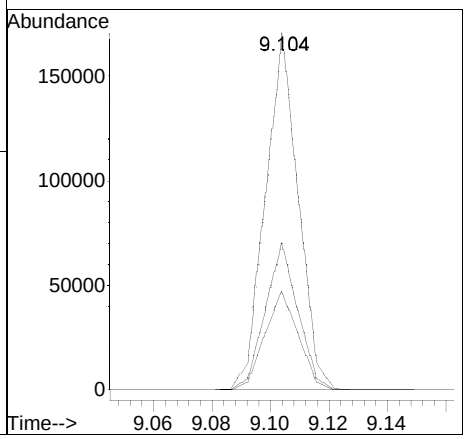


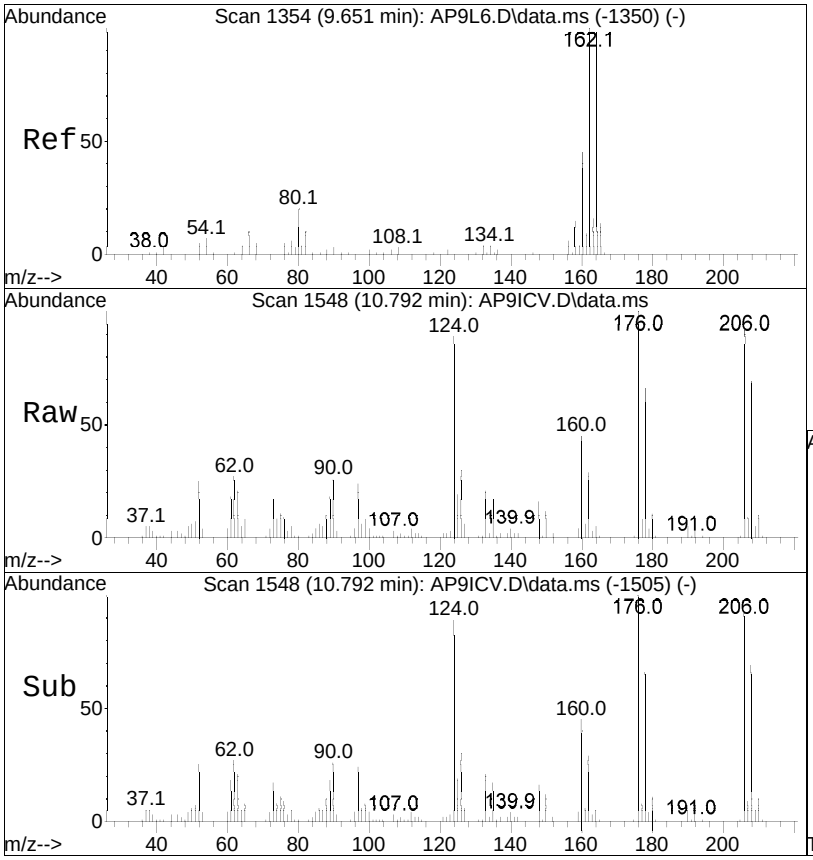


#62
Biphenyl
Concen: 4.53 ug/ml
RT: 9.104 min Scan# 1261
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:154 Resp: 131777

Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.3	48.5
152	28.7	22.5	33.7

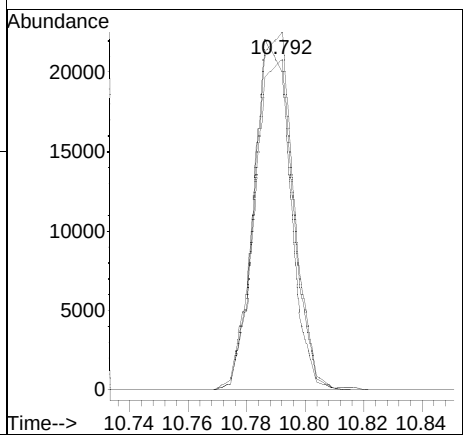


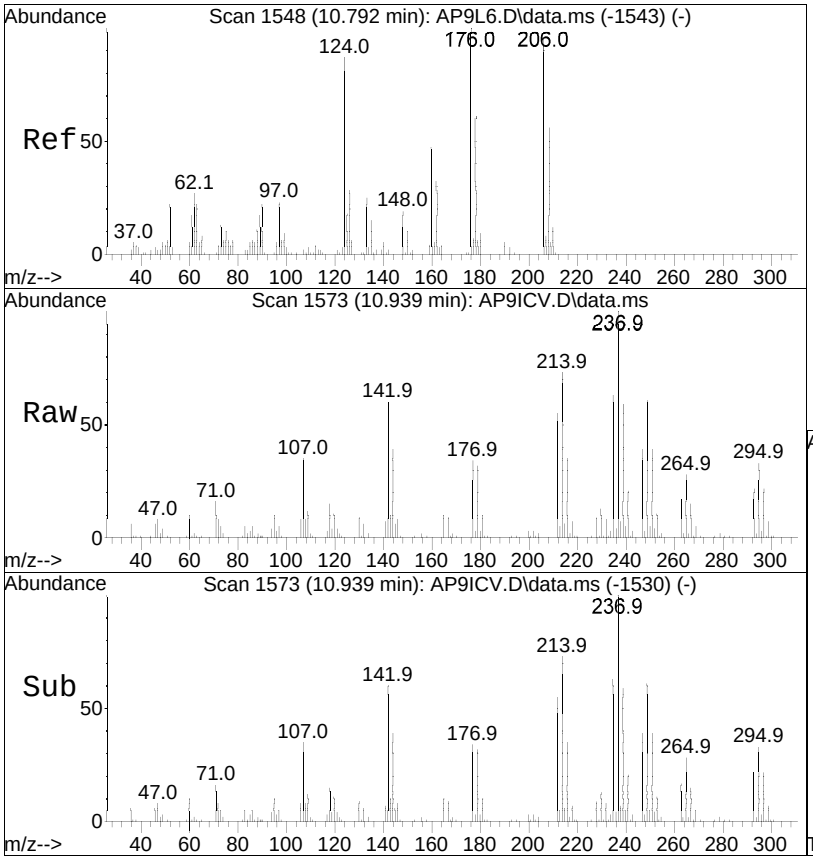


#84
Dichloran
Concen: 4.54 ug/ml
RT: 10.792 min Scan# 1548
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:206 Resp: 19006

Ion	Ratio	Lower	Upper
206	100		
176	108.8	104.6	157.0
124	101.1	130.5	195.7#

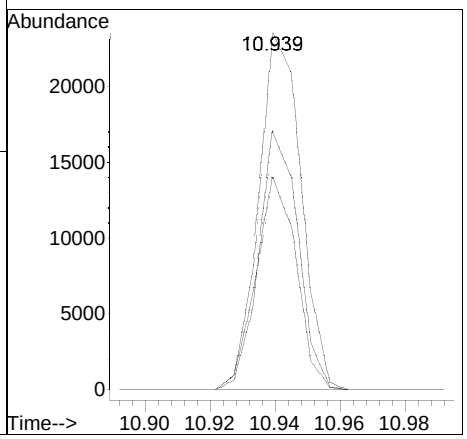


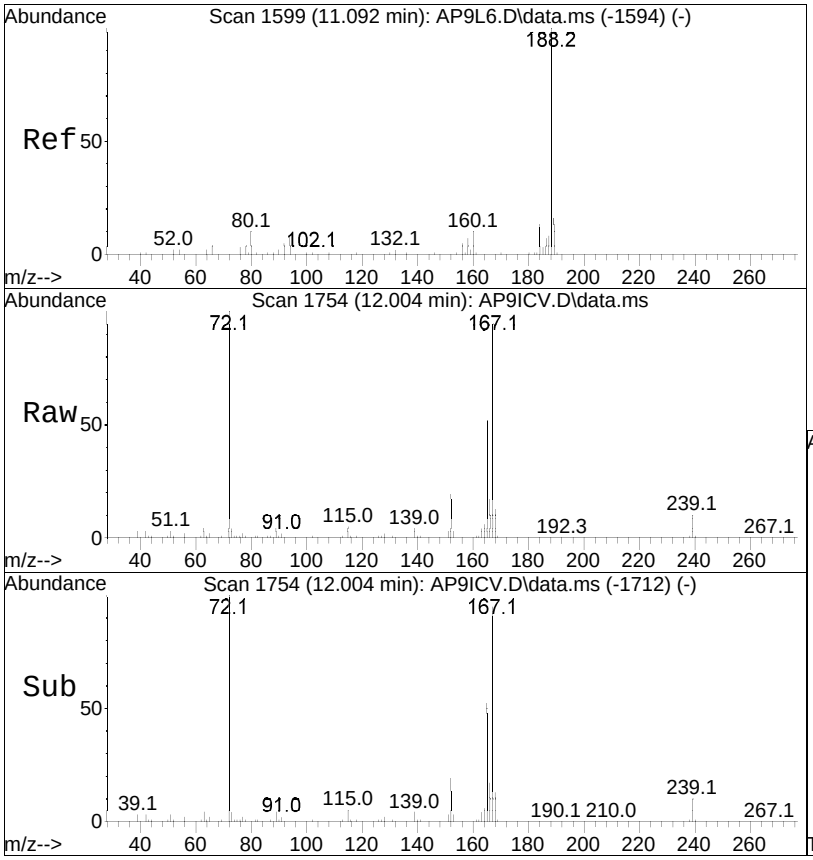


#85
Pentachloronitrobenzene
Concen: 4.65 ug/ml
RT: 10.939 min Scan# 1573
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:237 Resp: 21268

Ion	Ratio	Lower	Upper
237	100		
142	56.9	77.0	115.4#
214	67.4	58.2	87.4

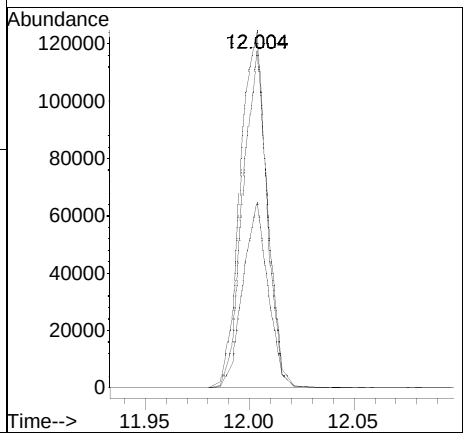




#99
Diphenamid
Concen: 4.59 ug/ml
RT: 12.004 min Scan# 1754
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 25 Jun 2024 12:27 am

Tgt Ion:167 Resp: 96271

Ion	Ratio	Lower	Upper
167	100		
72	111.8	109.7	164.5
165	56.5	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: AP9ICV.D	Operator	: SV106:ljg
Date Inj'd	: 6/25/2024 12:27 am	Instrument	: SV 106
Sample	: CQICV2,32,,AP9ICV Lot# 108	Quant Date	: 6/25/2024 6:34 am

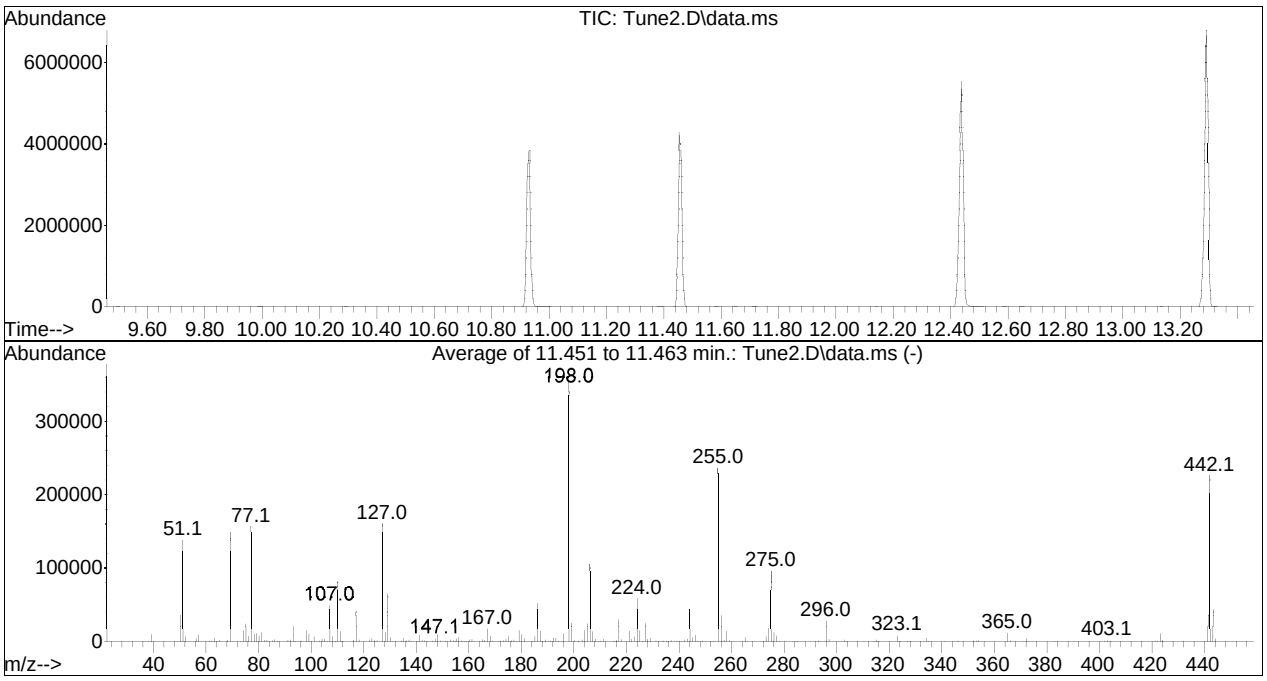
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\SV106\240624RVTical\
Data File : Tune2.D
Acq On : 25 Jun 2024 12:51 am
Operator : SV106:ljg
Sample : Tune2 Lot# 10853
Misc : WG1939040
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 25 06:28:35 2024



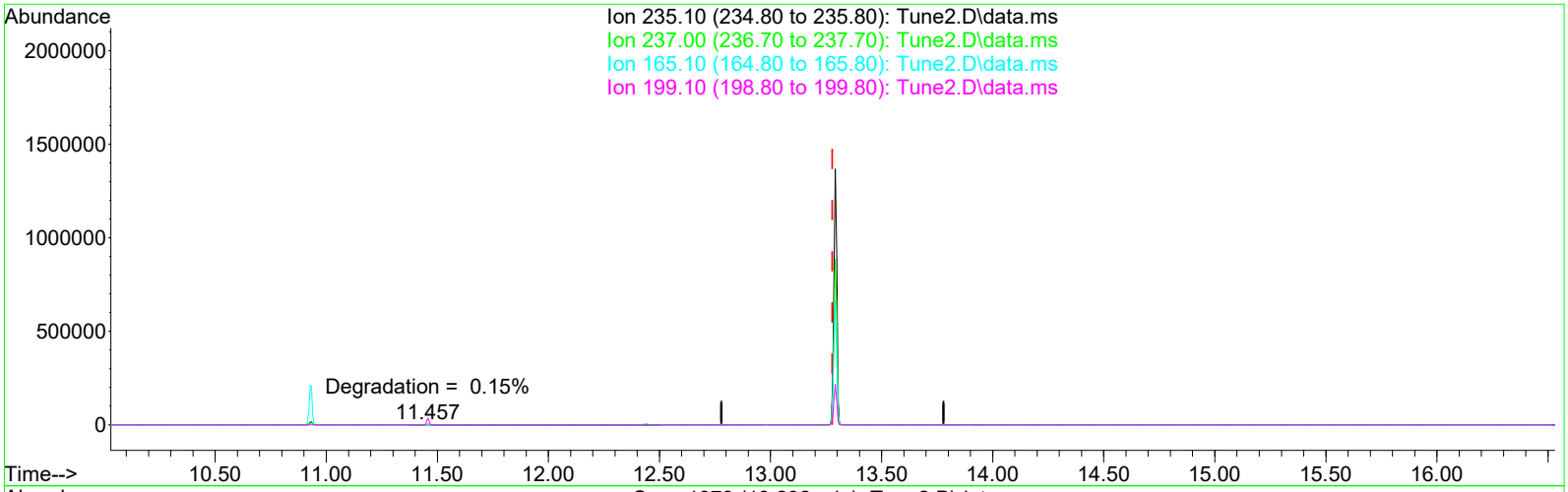
Spectrum Information: Average of 11.451 to 11.463 min.

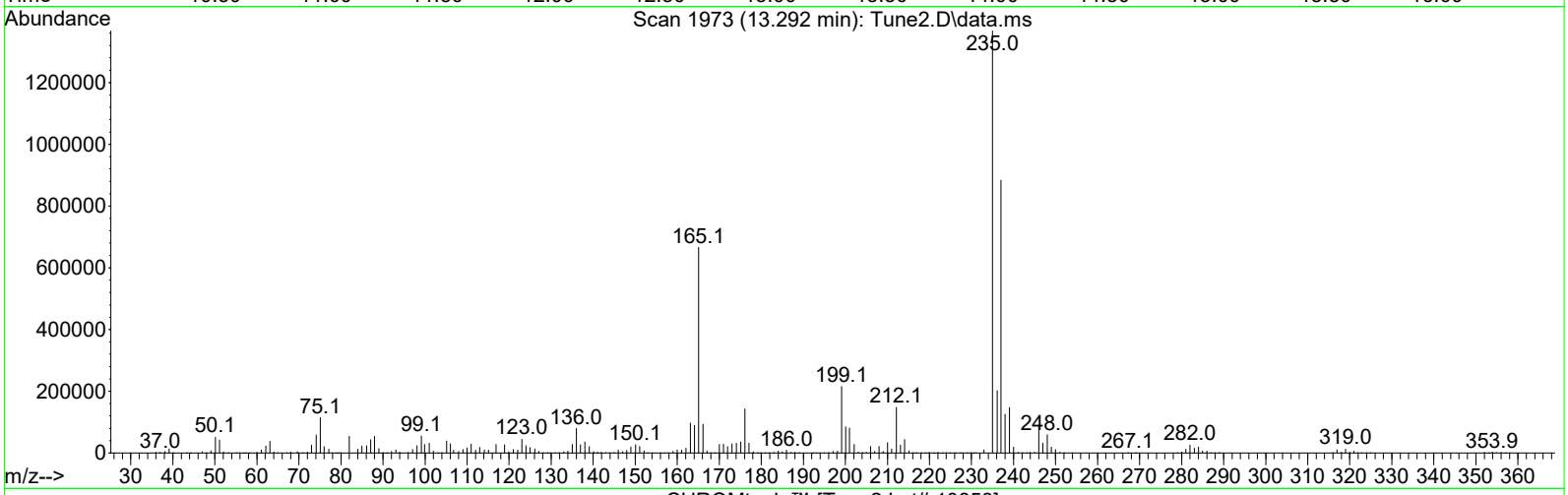
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.4	137891	PASS
68	69	0.00	2	1.7	2453	PASS
69	69	100	100	100.0	148637	PASS
70	69	0.00	2	0.5	712	PASS
127	198	10	80	44.6	160304	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	359445	PASS
199	198	5	9	7.0	25279	PASS
275	198	10	60	26.6	95504	PASS
365	198	1	100	3.1	11195	PASS
441	442	0.01	24	16.3	36658	PASS
442	198	50	100	62.7	225269	PASS
443	442	15	24	19.4	43760	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240624RVTical\
Data File : Tune2.D
Acq On : 25 Jun 2024 12:51 am
Operator : SV106:ljg
Sample : Tune2 Lot# 10853
Misc : WG1939040
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 25 05:23:43 2024
Quant Method : I:\8270\SV106\240624RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 23:55:18 2024
Response via : Initial Calibration





CHROMtools™ [Tune2 Lot# 10853]

(6) DDT (T)

13.292min (+ 0.012) 205.49

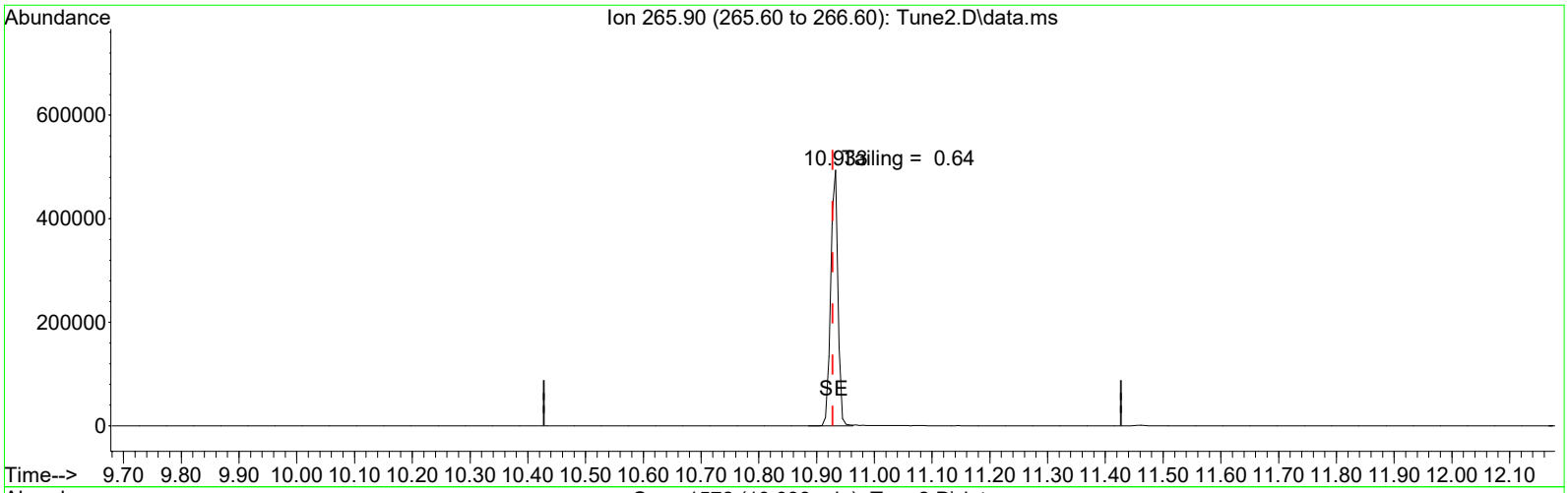
response 1252623

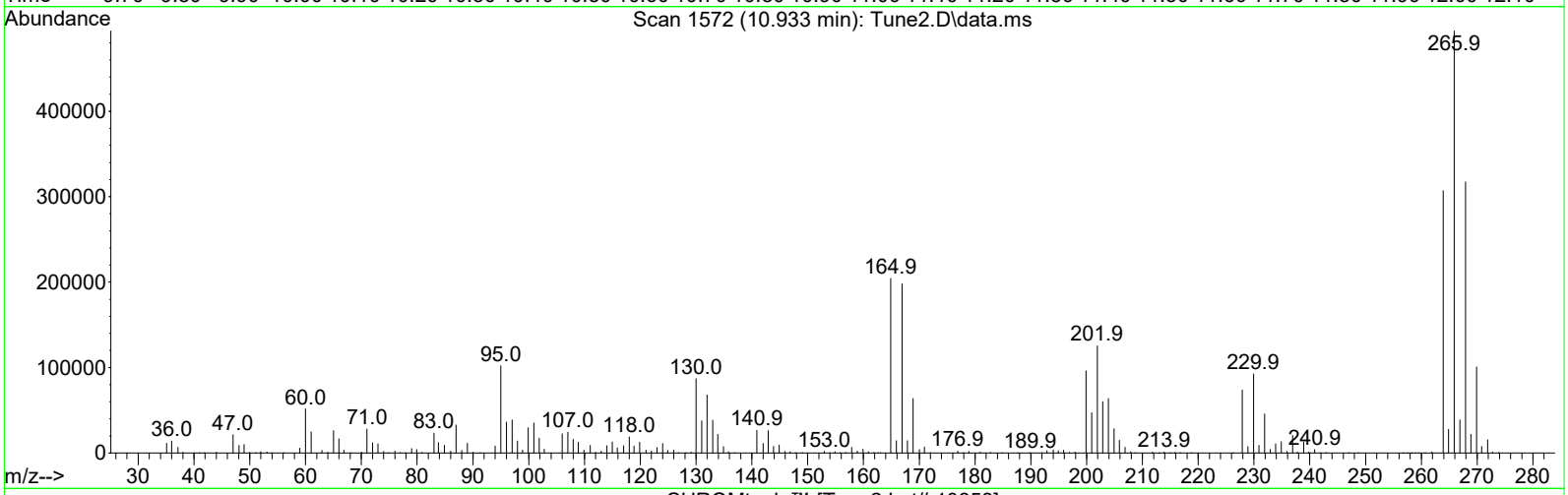
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	64.41
165.10	44.50	47.74
199.10	14.80	15.51

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240624RVTical\
Data File : Tune2.D
Acq On : 25 Jun 2024 12:51 am
Operator : SV106:ljg
Sample : Tune2 Lot# 10853
Misc : WG1939040
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 25 05:23:43 2024
Quant Method : I:\8270\SV106\240624RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 23:55:18 2024
Response via : Initial Calibration





CHROMtools™ [Tune2 Lot# 10853]

(1) Pentachlorophenol (T)

10.933min (+ 0.005) 208.83

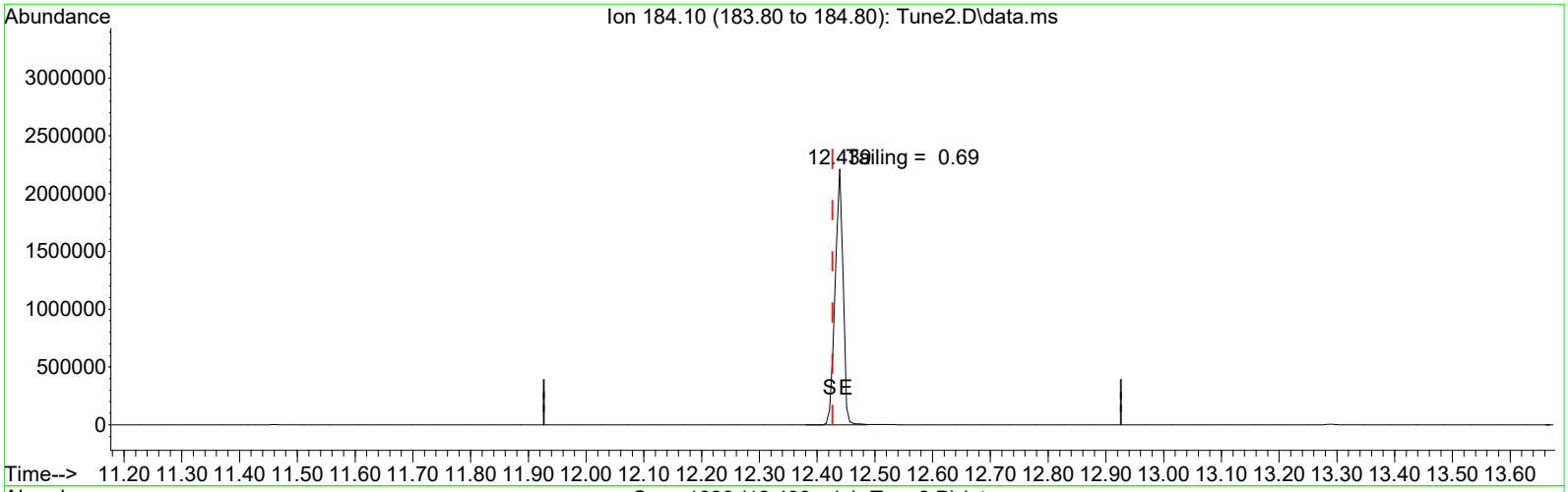
response 438622

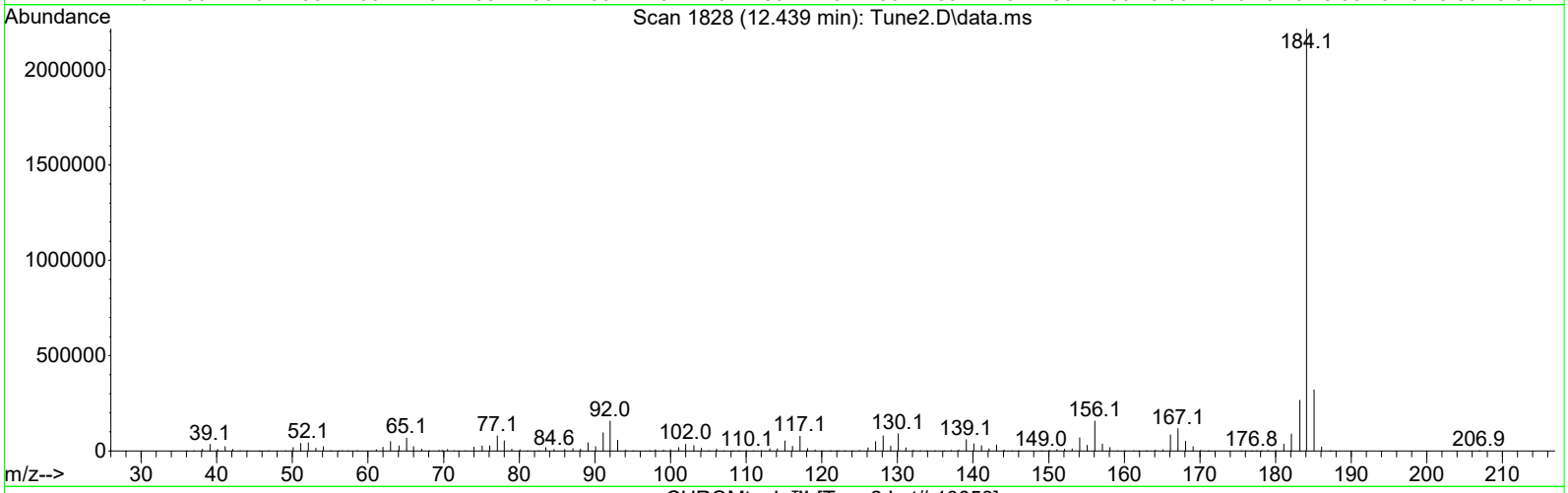
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240624RVTical\
Data File : Tune2.D
Acq On : 25 Jun 2024 12:51 am
Operator : SV106:ljg
Sample : Tune2 Lot# 10853
Misc : WG1939040
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Jun 25 05:23:43 2024
Quant Method : I:\8270\SV106\240624RVTical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 21 23:55:18 2024
Response via : Initial Calibration





CHROMtools™ [Tune2 Lot# 10853]

(3) Benzidine (T)

12.439min (+ 0.012) 207.58

response 2113145

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL9.D
Acq On : 25 Jun 2024 1:14 am
Operator : SV106:ljg
Sample : IL2,32,,ADPL50 Lot# 10796
Misc : WG1939040
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 10:13:17 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.463	152	33017	4.000	ug/ml	0.00
Standard Area 1 = 32759			Recovery =	100.79%		
86) IS3_Acenaphthene-d10	9.657	164	71723	4.000	ug/ml	0.00
Standard Area 1 = 76462			Recovery =	93.80%		
100) IS3_Phenanthrene-d10	11.098	188	171323	4.000	ug/ml	# 0.00
Standard Area 1 = 180522			Recovery =	94.90%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.887	88	213408	44.234	ug/ml#	100
34) n-Decane	6.363	57	675848	49.265	ug/ml#	44
87) Atrazine	10.874	200	476191	52.207	ug/ml	94
101) n-Octadecane	11.074	57	1016939	47.722	ug/ml#	1
102) Parathion	11.886	109	310962	58.476	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.180	212	2068015	61.068	ug/ml	100

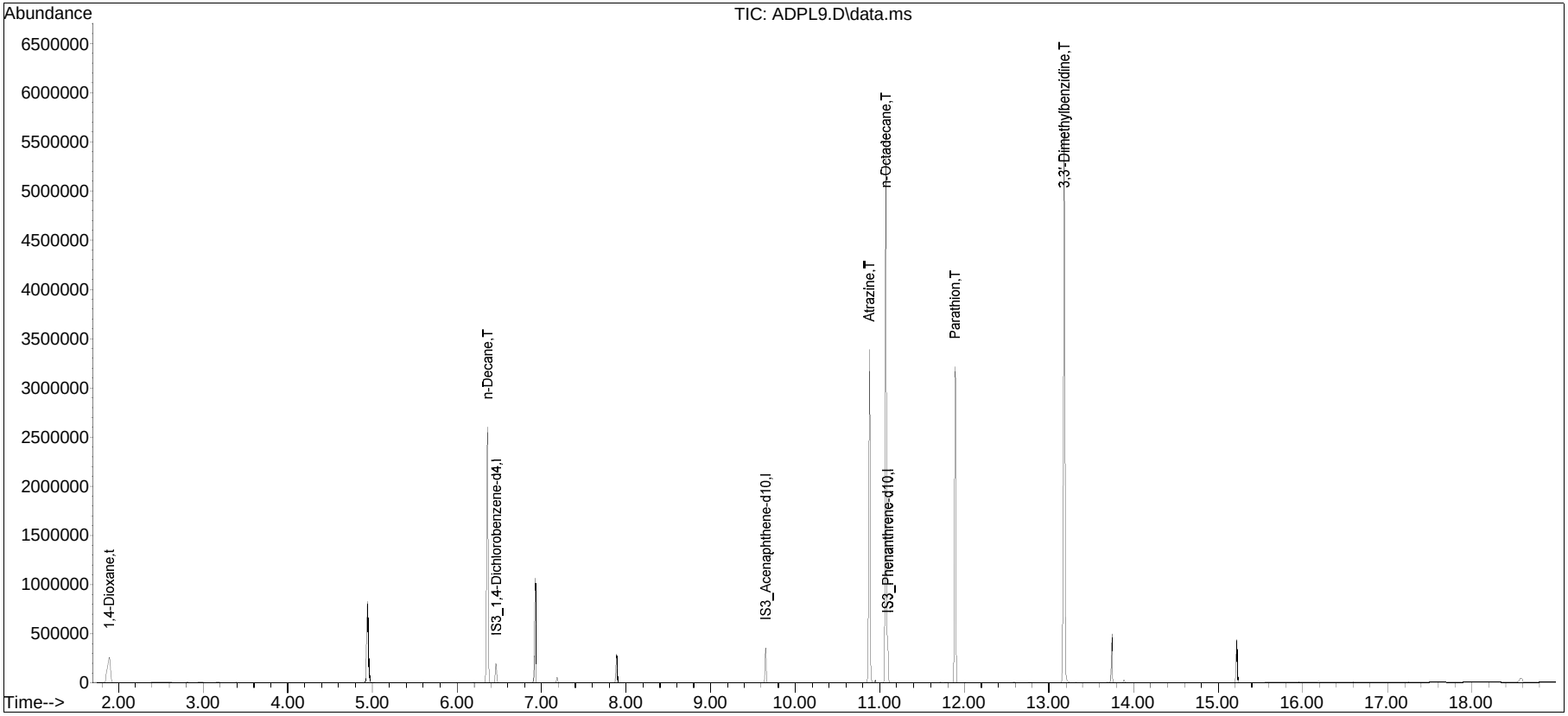
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL9.D
Acq On : 25 Jun 2024 1:14 am
Operator : SV106:ljg
Sample : IL2,32,,ADPL50 Lot# 10796
Misc : WG1939040
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 10:13:17 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: ADPL9.D	Operator	: SV106:ljg
Date Inj'd	: 6/25/2024 1:14 am	Instrument	: SV 106
Sample	: IL2,32,,ADPL50 Lot# 10796	Quant Date	: 6/25/2024 10:14 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL8.D
Acq On : 25 Jun 2024 1:38 am
Operator : SV106:ljg
Sample : IL3,32,,ADPL25 Lot# 10797
Misc : WG1939040
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 25 10:13:06 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.463	152	33304	4.000	ug/ml	0.00
	Standard Area 1 = 32759			Recovery =	101.66%		
86)	IS3_Acenaphthene-d10	9.651	164	75831	4.000	ug/ml	0.00
	Standard Area 1 = 76462			Recovery =	99.17%		
100)	IS3_Phenanthrene-d10	11.098	188	183808	4.000	ug/ml	0.00
	Standard Area 1 = 180522			Recovery =	101.82%		
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.857	88	101538	20.865	ug/ml#	100
34)	n-Decane	6.357	57	325546	23.526	ug/ml#	43
87)	Atrazine	10.874	200	249095	25.830	ug/ml	95
101)	n-Octadecane	11.074	57	575419	25.169	ug/ml#	1
102)	Parathion	11.886	109	163023	28.574	ug/ml	99
103)	3,3'-Dimethylbenzidine	13.174	212	1073064	29.535	ug/ml	100

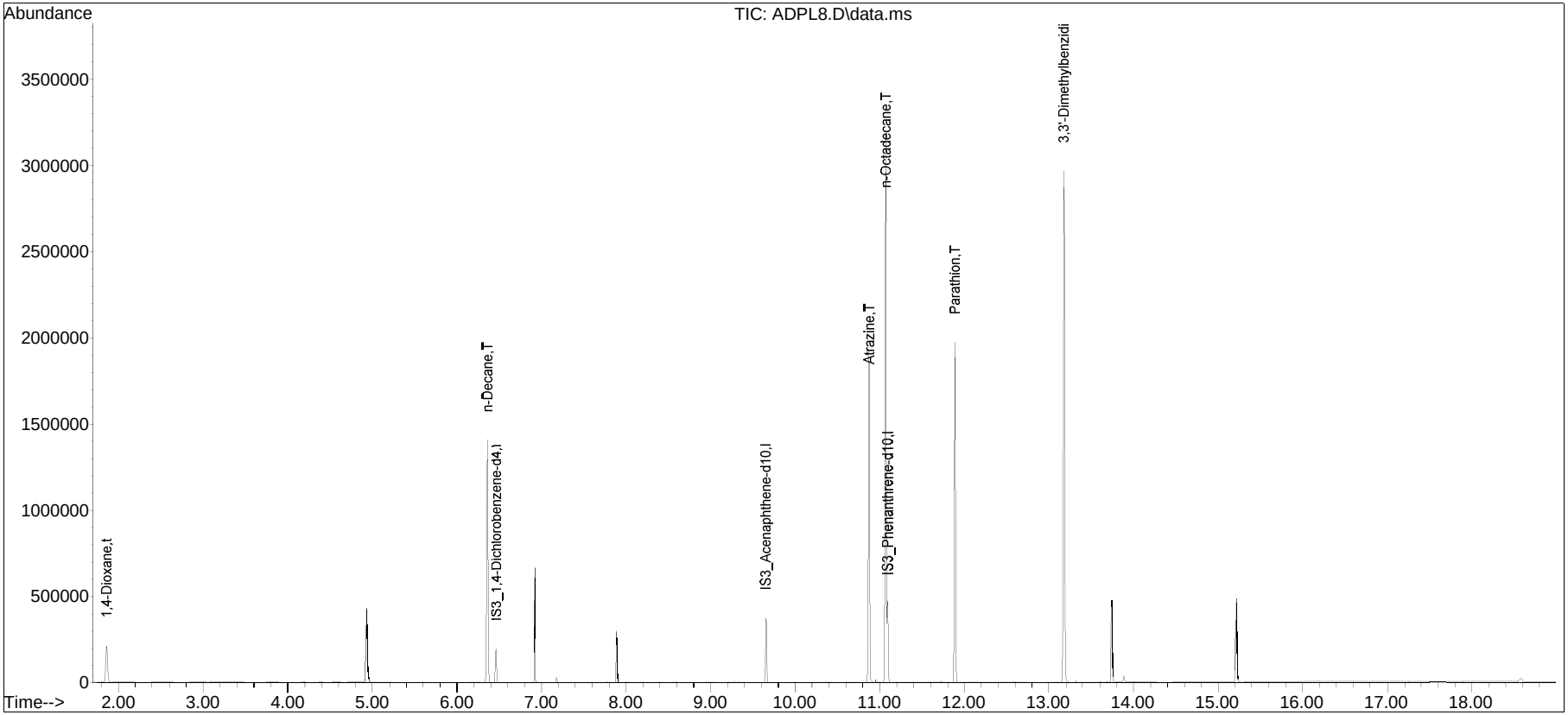
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL8.D
Acq On : 25 Jun 2024 1:38 am
Operator : SV106:ljg
Sample : IL3,32,,ADPL25 Lot# 10797
Misc : WG1939040
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 25 10:13:06 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: ADPL8.D	Operator	: SV106:ljg
Date Inj'd	: 6/25/2024 1:38 am	Instrument	: SV 106
Sample	: IL3,32,,ADPL25 Lot# 10797	Quant Date	: 6/25/2024 10:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL7.D
Acq On : 25 Jun 2024 2:02 am
Operator : SV106:ljg
Sample : IL4,32,,ADPL10 Lot# 10798
Misc : WG1939040
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 10:12:55 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.463	152	32637	4.000	ug/ml	0.00
	Standard Area 1 = 32759			Recovery =	99.63%		
86)	IS3_Acenaphthene-d10	9.651	164	75339	4.000	ug/ml	0.00
	Standard Area 1 = 76462			Recovery =	98.53%		
100)	IS3_Phenanthrene-d10	11.092	188	178525	4.000	ug/ml	0.00
	Standard Area 1 = 180522			Recovery =	98.89%		
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.857	88	41610	8.725	ug/ml#	100
34)	n-Decane	6.357	57	133762	9.864	ug/ml#	42
87)	Atrazine	10.869	200	96679	10.091	ug/ml	95
101)	n-Octadecane	11.074	57	230341	10.373	ug/ml#	1
102)	Parathion	11.886	109	58843	10.619	ug/ml	97
103)	3,3'-Dimethylbenzidine	13.174	212	409416	11.602	ug/ml	99

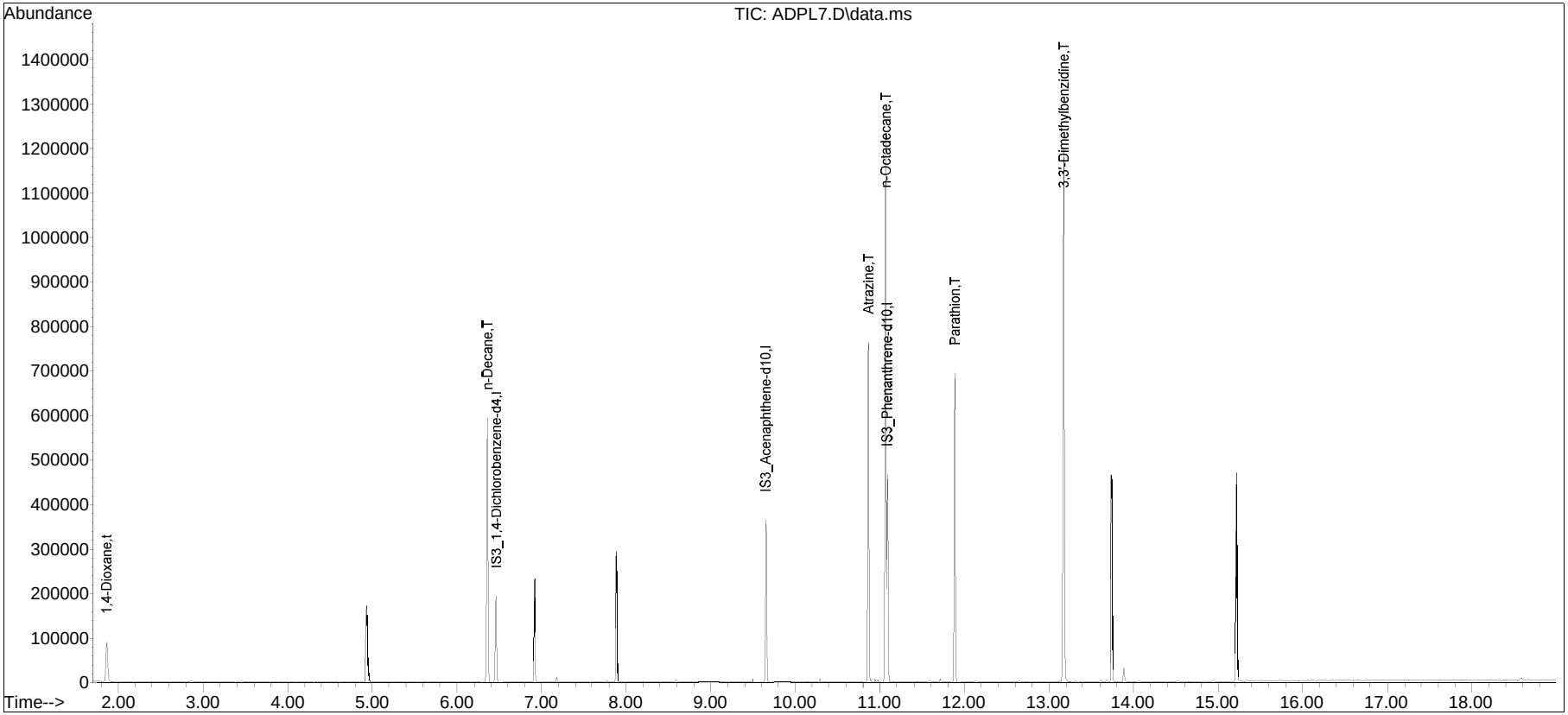
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL7.D
Acq On : 25 Jun 2024 2:02 am
Operator : SV106:ljg
Sample : IL4,32,,ADPL10 Lot# 10798
Misc : WG1939040
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 10:12:55 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: ADPL7.D	Operator	: SV106:ljg
Date Inj'd	: 6/25/2024 2:02 am	Instrument	: SV 106
Sample	: IL4,32,,ADPL10 Lot# 10798	Quant Date	: 6/25/2024 10:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL6.D
Acq On : 25 Jun 2024 2:26 am
Operator : SV106:ljg
Sample : IL5,32,,ADPL5 Lot# 10799
Misc : WG1939040
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 10:12:45 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
	Internal Standards						
32)	IS3_1,4-Dichlorobenzen...	6.463	152	32759	4.000	ug/ml	0.00
	Standard Area 1 = 32759			Recovery =	100.00%		
86)	IS3_Acenaphthene-d10	9.651	164	76462	4.000	ug/ml	0.00
	Standard Area 1 = 76462			Recovery =	100.00%		
100)	IS3_Phenanthrene-d10	11.098	188	180522	4.000	ug/ml	0.00
	Standard Area 1 = 180522			Recovery =	100.00%		
	System Monitoring Compounds						
	Target Compounds						Qvalue
33)	1,4-Dioxane	1.863	88	20128	4.205	ug/ml#	100
34)	n-Decane	6.357	57	63146	4.639	ug/ml#	42
87)	Atrazine	10.863	200	44293	4.555	ug/ml	97
101)	n-Octadecane	11.074	57	104215	4.641	ug/ml#	1
102)	Parathion	11.880	109	25479	4.547	ug/ml	99
103)	3,3'-Dimethylbenzidine	13.174	212	180859	5.069	ug/ml	100

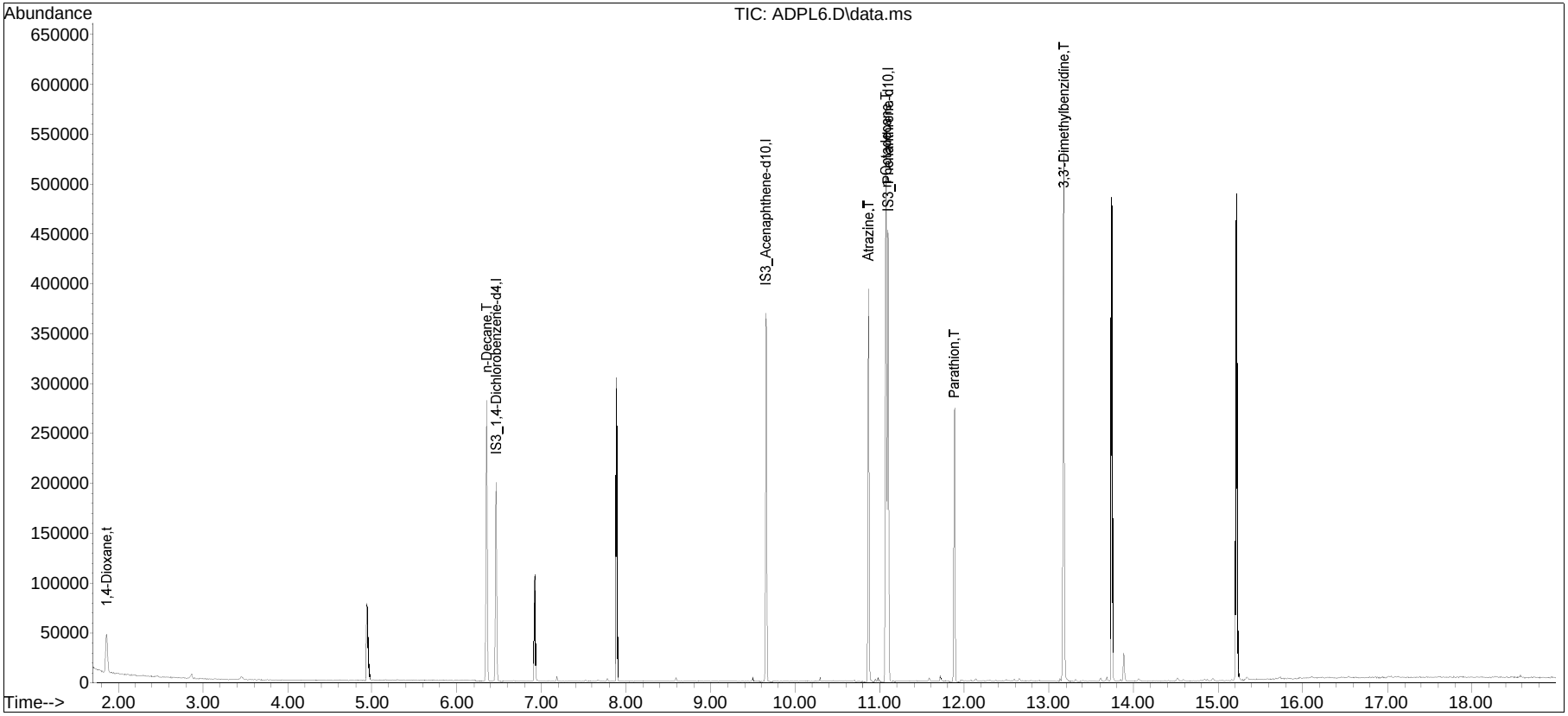
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL6.D
Acq On : 25 Jun 2024 2:26 am
Operator : SV106:ljg
Sample : IL5,32,,ADPL5 Lot# 10799
Misc : WG1939040
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 25 10:12:45 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: ADPL6.D	Operator	: SV106:ljg
Date Inj'd	: 6/25/2024 2:26 am	Instrument	: SV 106
Sample	: IL5,32,,ADPL5 Lot# 10799	Quant Date	: 6/25/2024 10:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL5.D
Acq On : 25 Jun 2024 2:49 am
Operator : SV106:ljg
Sample : IL6,32,,ADPL2.5 Lot# 10800
Misc : WG1939040
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 25 10:12:34 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.463	152	31407	4.000	ug/ml	0.00
Standard Area 1 = 32759			Recovery =	95.87%		
86) IS3_Acenaphthene-d10	9.651	164	72577	4.000	ug/ml	0.00
Standard Area 1 = 76462			Recovery =	94.92%		
100) IS3_Phenanthrene-d10	11.092	188	169004	4.000	ug/ml	0.00
Standard Area 1 = 180522			Recovery =	93.62%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.863	88	10534	2.295	ug/ml#	100
34) n-Decane	6.357	57	31955	2.449	ug/ml#	42
87) Atrazine	10.863	200	22254	2.411	ug/ml	96
101) n-Octadecane	11.075	57	51657	2.457	ug/ml#	1
102) Parathion	11.880	109	11573	2.206	ug/ml	96
103) 3,3'-Dimethylbenzidine	13.174	212	87693	2.625	ug/ml	99

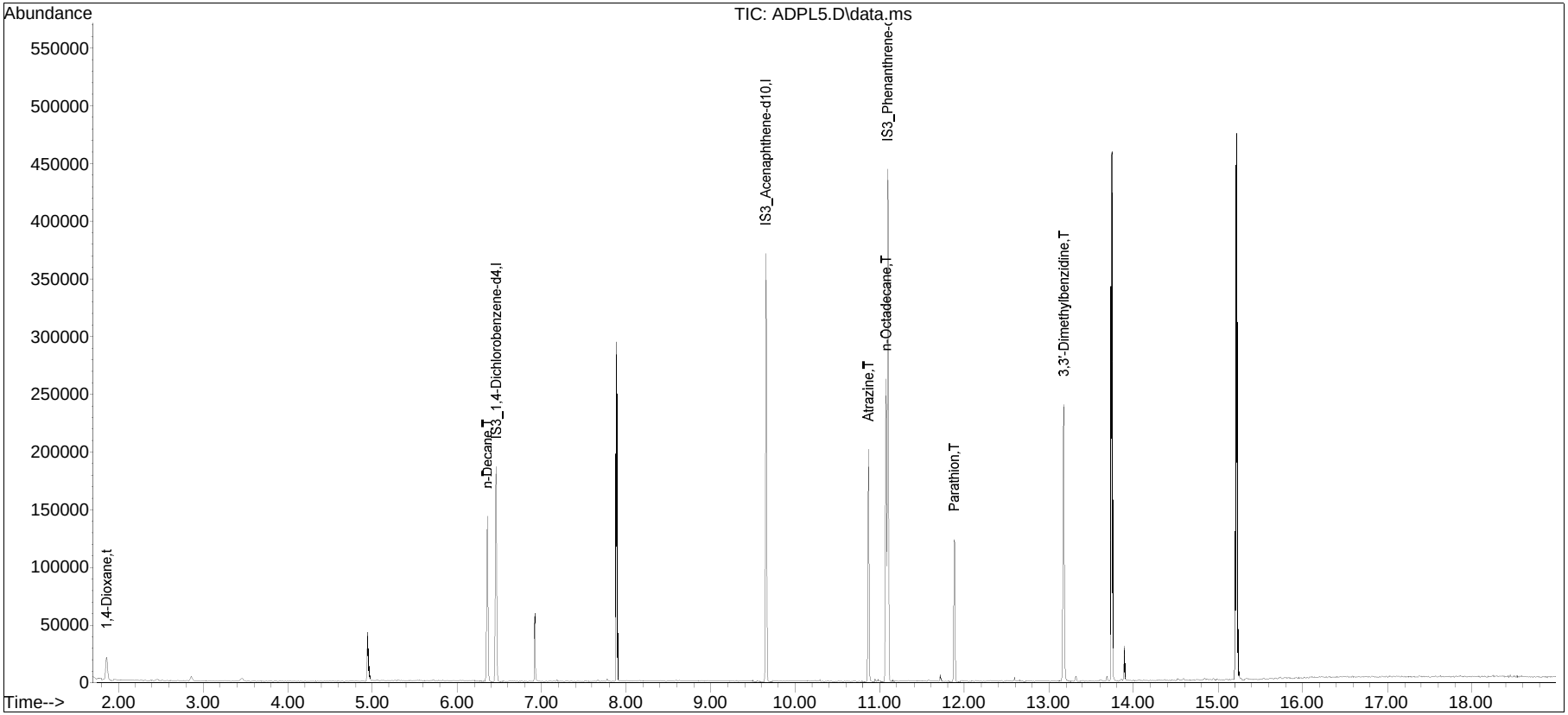
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL5.D
Acq On : 25 Jun 2024 2:49 am
Operator : SV106:ljg
Sample : IL6,32,,ADPL2.5 Lot# 10800
Misc : WG1939040
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 25 10:12:34 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: ADPL5.D	Operator	: SV106:ljg
Date Inj'd	: 6/25/2024 2:49 am	Instrument	: SV 106
Sample	: IL6,32,,ADPL2.5 Lot# 10800	Quant Date	: 6/25/2024 10:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL4.D
Acq On : 25 Jun 2024 3:13 am
Operator : SV106:ljg
Sample : IL7,32,,ADPL1 Lot# 10801
Misc : WG1939040
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 25 10:12:24 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.463	152	30616	4.000	ug/ml	0.00
Standard Area 1 = 32759			Recovery = 93.46%			
86) IS3_Acenaphthene-d10	9.657	164	68292	4.000	ug/ml	0.00
Standard Area 1 = 76462			Recovery = 89.31%			
100) IS3_Phenanthrene-d10	11.098	188	158970	4.000	ug/ml	0.00
Standard Area 1 = 180522			Recovery = 88.06%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.863	88	4493	1.004	ug/ml#	100
34) n-Decane	6.357	57	13858	1.089	ug/ml#	39
87) Atrazine	10.863	200	8830	1.017	ug/ml	93
101) n-Octadecane	11.074	57	19907	1.007	ug/ml#	1
102) Parathion	11.880	109	4303	0.872	ug/ml	96
103) 3,3'-Dimethylbenzidine	13.174	212	31093	0.990	ug/ml	99

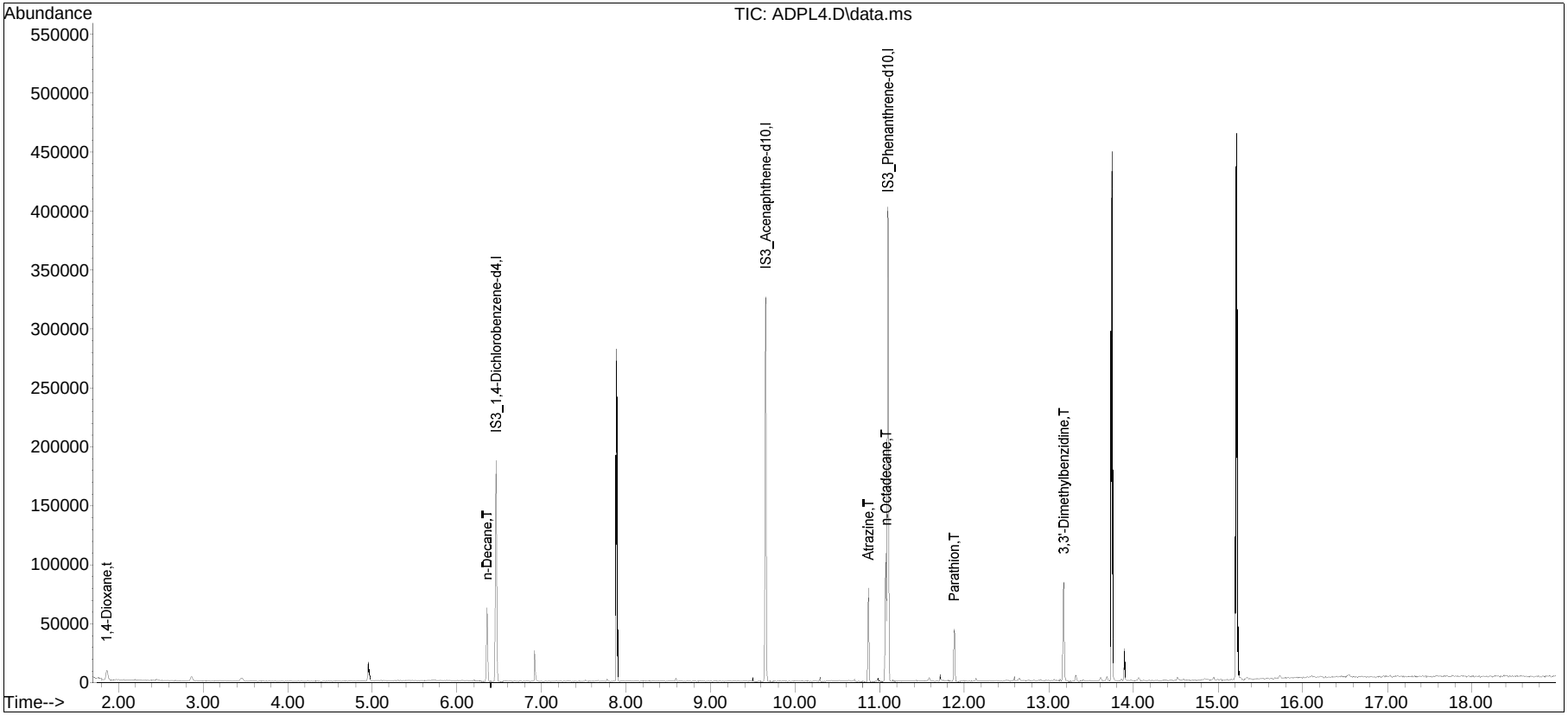
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL4.D
Acq On : 25 Jun 2024 3:13 am
Operator : SV106:ljg
Sample : IL7,32,,ADPL1 Lot# 10801
Misc : WG1939040
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 25 10:12:24 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: ADPL4.D	Operator	: SV106:ljg
Date Inj'd	: 6/25/2024 3:13 am	Instrument	: SV 106
Sample	: IL7,32,,ADPL1 Lot# 10801	Quant Date	: 6/25/2024 10:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL3.D
Acq On : 25 Jun 2024 3:37 am
Operator : SV106:ljg
Sample : IL8,32,,ADPL0.5 Lot# 10802
Misc : WG1939040
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 25 10:12:13 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.463	152	30341	4.000	ug/ml	0.00
Standard Area 1 = 32759			Recovery = 92.62%			
86) IS3_Acenaphthene-d10	9.651	164	67449	4.000	ug/ml	0.00
Standard Area 1 = 76462			Recovery = 88.21%			
100) IS3_Phenanthrene-d10	11.092	188	158557	4.000	ug/ml	0.00
Standard Area 1 = 180522			Recovery = 87.83%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.863	88	2381M6	0.537	ug/ml	
34) n-Decane	6.357	57	6394	0.507	ug/ml#	39
87) Atrazine	10.863	200	4137	0.482	ug/ml	99
101) n-Octadecane	11.074	57	9983	0.506	ug/ml#	1
102) Parathion	11.880	109	2532	0.514	ug/ml	90
103) 3,3'-Dimethylbenzidine	13.168	212	14072	0.449	ug/ml	99

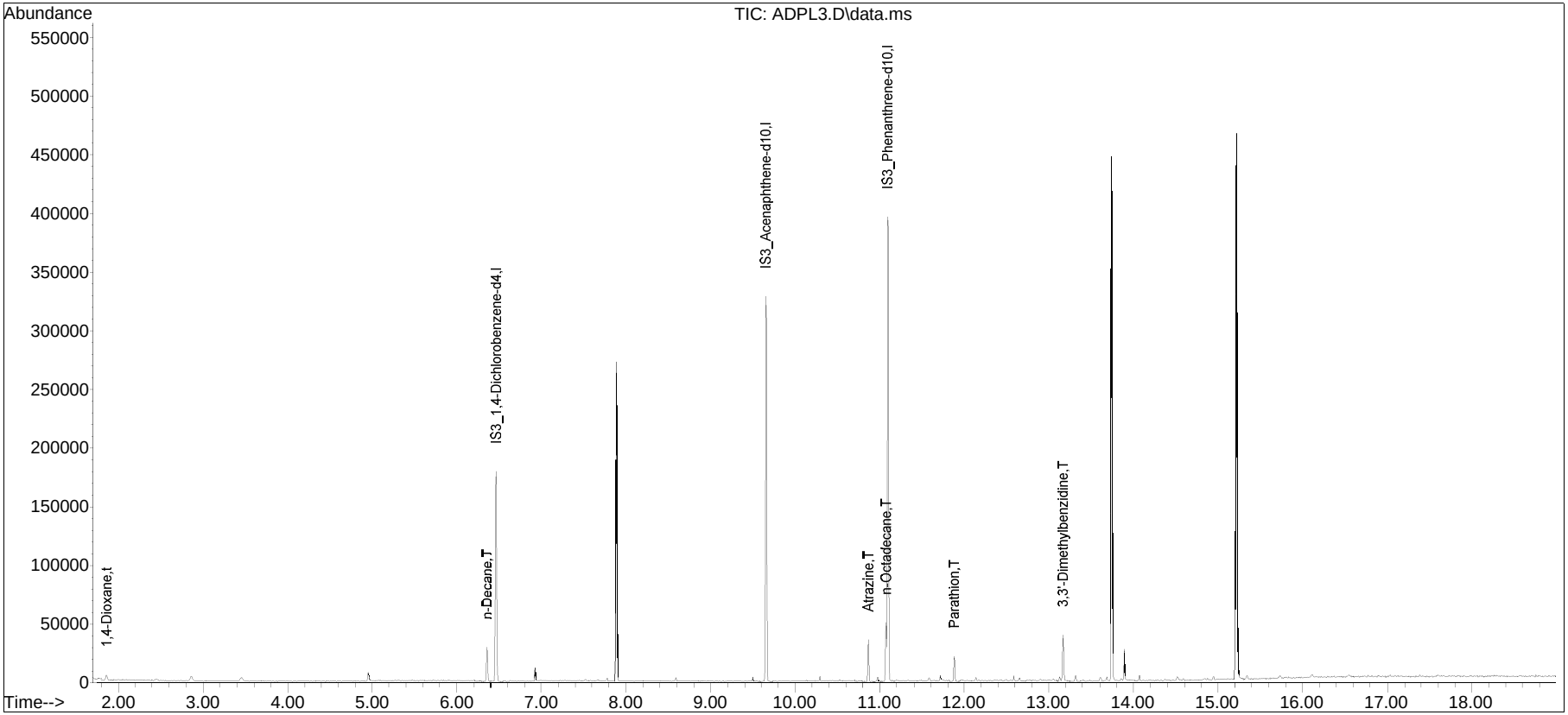
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL3.D
Acq On : 25 Jun 2024 3:37 am
Operator : SV106:ljg
Sample : IL8,32,,ADPL0.5 Lot# 10802
Misc : WG1939040
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 25 10:12:13 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

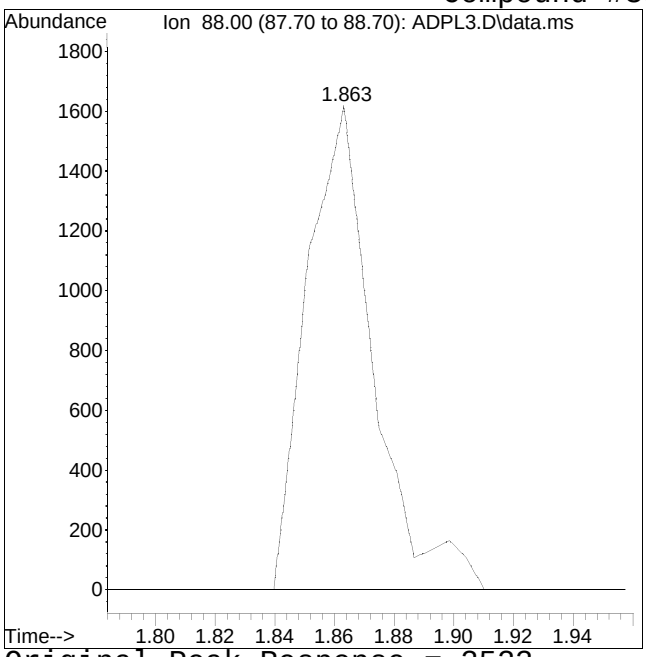
Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



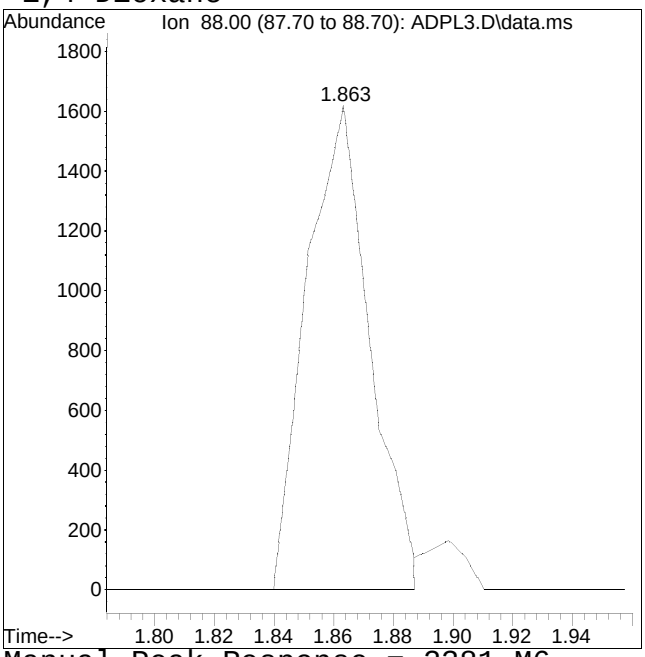
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ADPL3.D Operator : SV106:ljg
Date Inj'd : 6/25/2024 3:37 am Instrument : SV 106
Sample : IL8,32,,ADPL0.5 Lot# 10802Quant Date : 6/25/2024 10:12 am

Compound #33: 1,4-Dioxane



Original Peak Response = 2523



Manual Peak Response = 2381 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL2.D
Acq On : 25 Jun 2024 4:01 am
Operator : SV106:ljg
Sample : IL9,32,,ADPL0.2 Lot# 10803
Misc : WG1939040
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 25 10:11:11 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.463	152	31931	4.000	ug/ml	0.00
Standard Area 1 = 32759			Recovery =	97.47%		
86) IS3_Acenaphthene-d10	9.651	164	68863	4.000	ug/ml	0.00
Standard Area 1 = 76462			Recovery =	90.06%		
100) IS3_Phenanthrene-d10	11.092	188	158571	4.000	ug/ml	0.00
Standard Area 1 = 180522			Recovery =	87.84%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.869	88	1140	0.244	ug/ml#	100
34) n-Decane	6.357	57	2770	0.209	ug/ml#	46
87) Atrazine	10.863	200	1642	0.187	ug/ml	98
101) n-Octadecane	11.075	57	3681	0.187	ug/ml#	1
102) Parathion	11.880	109	1023	0.208	ug/ml#	67
103) 3,3'-Dimethylbenzidine	13.174	212	5078	0.162	ug/ml#	96

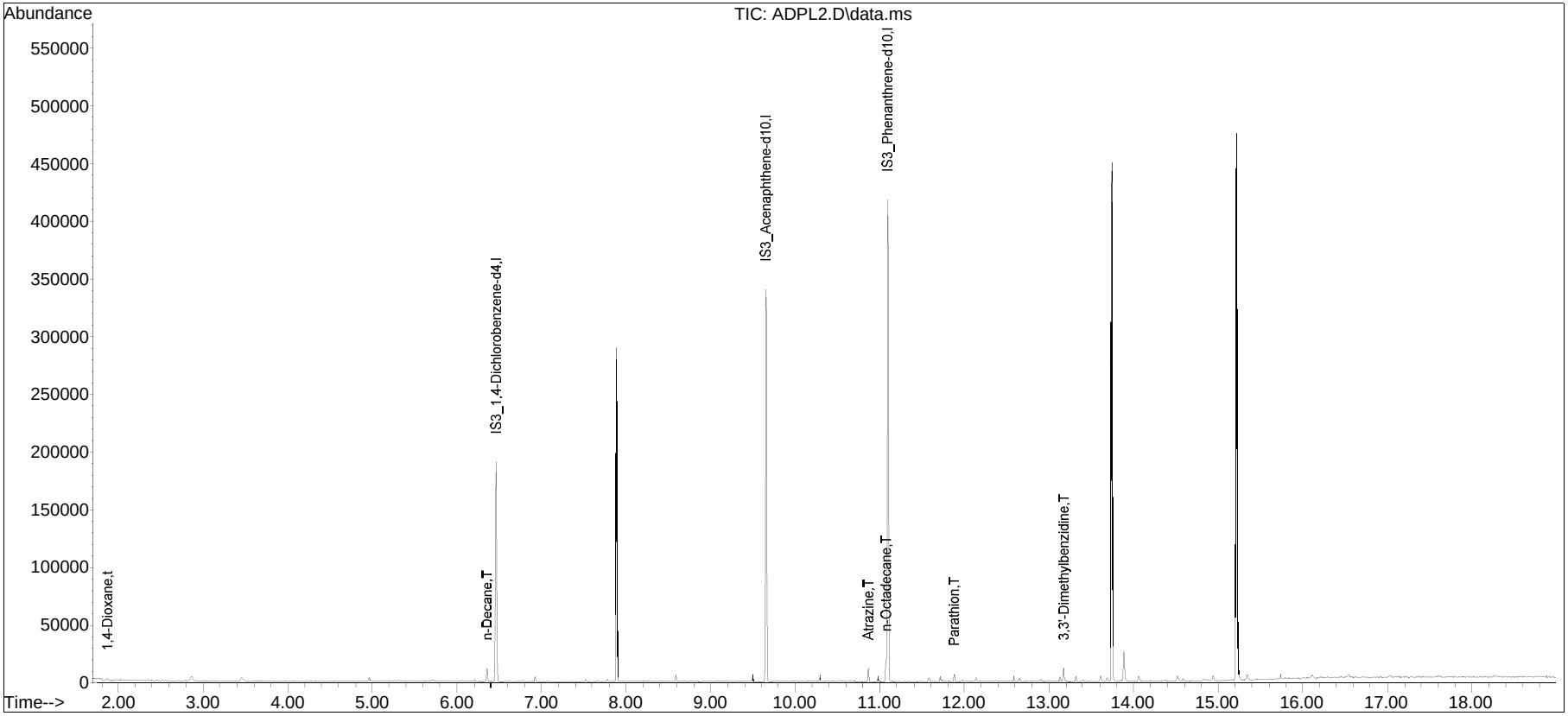
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL2.D
Acq On : 25 Jun 2024 4:01 am
Operator : SV106:ljg
Sample : IL9,32,,ADPL0.2 Lot# 10803
Misc : WG1939040
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 25 10:11:11 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: ADPL2.D	Operator	: SV106:ljg
Date Inj'd	: 6/25/2024 4:01 am	Instrument	: SV 106
Sample	: IL9,32,,ADPL0.2 Lot# 10803	Quant Date	: 6/25/2024 10:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL1.D
Acq On : 25 Jun 2024 4:24 am
Operator : SV106:ljg
Sample : IL10,32,,ADPL0.1 Lot# 10804
Misc : WG1939040
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 25 10:10:33 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.463	152	31706	4.000	ug/ml	0.00
Standard Area 1 = 32759			Recovery = 96.79%			
86) IS3_Acenaphthene-d10	9.651	164	74255	4.000	ug/ml	0.00
Standard Area 1 = 76462			Recovery = 97.11%			
100) IS3_Phenanthrene-d10	11.092	188	175220	4.000	ug/ml	0.00
Standard Area 1 = 180522			Recovery = 97.06%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.857	88	625	0.135	ug/ml#	100
34) n-Decane	6.357	57	1360	0.103	ug/ml#	34
87) Atrazine	10.863	200	1057	0.112	ug/ml#	33
101) n-Octadecane	11.074	57	2480	0.114	ug/ml#	1
102) Parathion	11.880	109	486M2	0.089	ug/ml	
103) 3,3'-Dimethylbenzidine	13.174	212	2340	0.068	ug/ml#	75

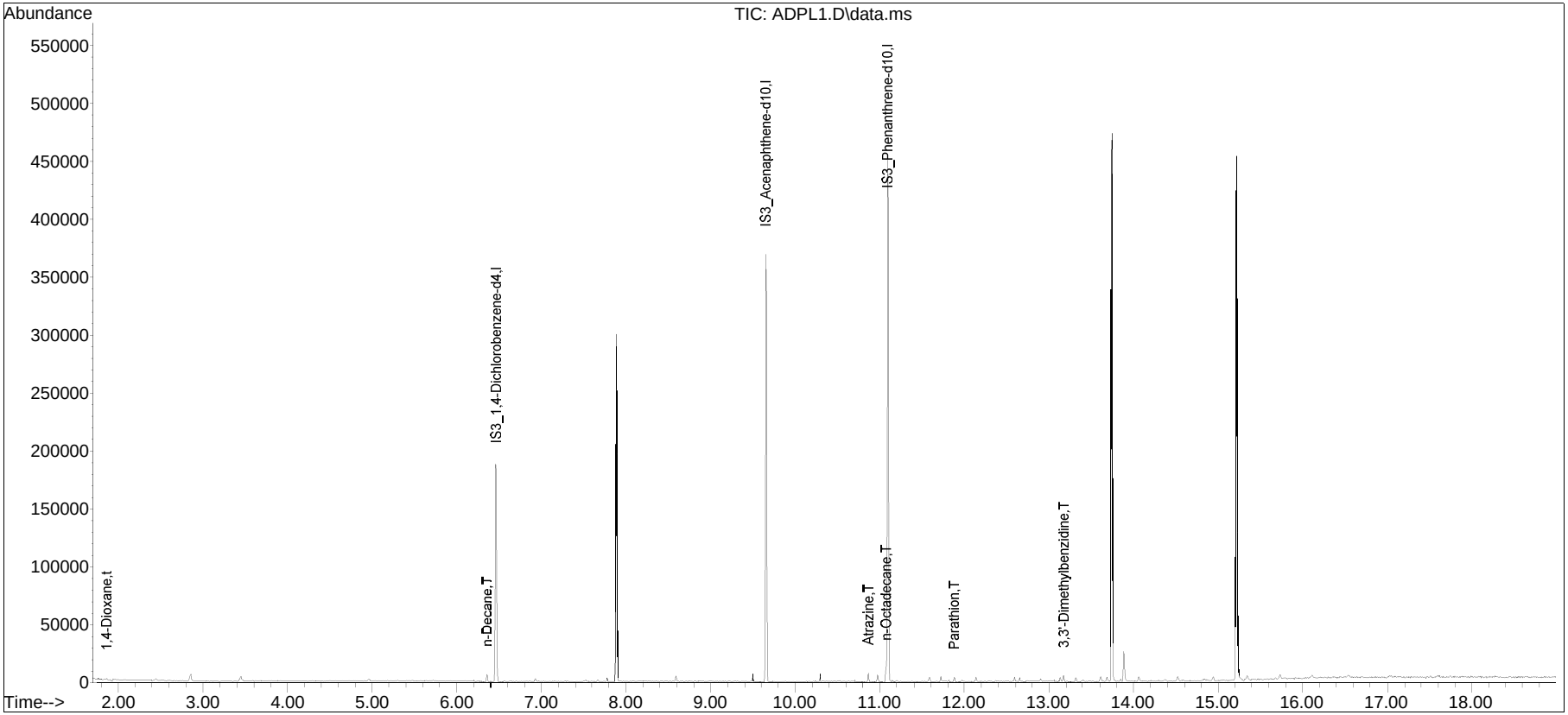
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPL1.D
Acq On : 25 Jun 2024 4:24 am
Operator : SV106:ljg
Sample : IL10,32,,ADPL0.1 Lot# 10804
Misc : WG1939040
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 25 10:10:33 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:36:24 2024
Response via : Initial Calibration

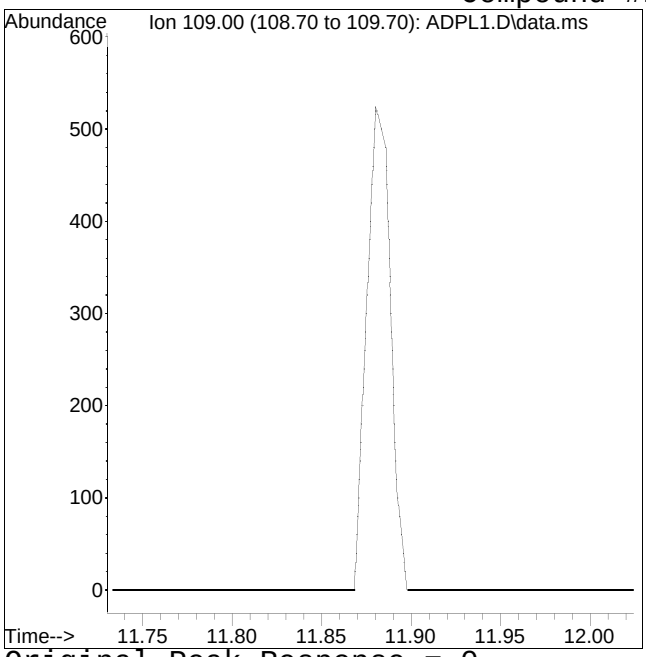
Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•



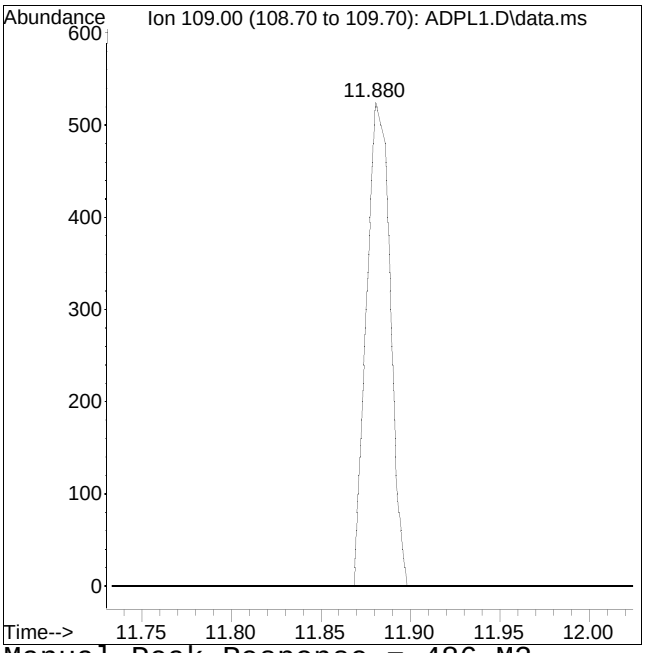
Manual Integration Report

Data Path : I:\8270\SV106\240624RVTicaQMethod : FS240624SV106.m
Data File : ADPL1.D Operator : SV106:ljg
Date Inj'd : 6/25/2024 4:24 am Instrument : SV 106
Sample : IL10,32,,ADPL0.1 Lot# 1080Quant Date : 6/25/2024 10:11 am

Compound #102: Parathion



Original Peak Response = 0



Manual Peak Response = 486 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPICV.D
Acq On : 25 Jun 2024 4:48 am
Operator : SV106:ljg
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1939040
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 25 06:34:43 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
33	t	1,4-Dioxane	0.584	0.502	14.0	93	0.00
34	T	n-Decane	1.662	1.657	0.3	98	0.00
86	I	IS3_Acenaphthene-d10	1.000	1.000	0.0	90	0.00
87	T	Atrazine	0.509	0.442	13.2	86	0.00
100	I	IS3_Phenanthrene-d10	1.000	1.000	0.0	90	0.00
101	T	n-Octadecane	0.498	0.485	2.6	94	0.00
102	T	Parathion	0.124	0.111	10.5	89	0.00
103	T	3,3'-Dimethylbenzidine	0.791	0.752	4.9	84	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPICV.D
Acq On : 25 Jun 2024 4:48 am
Operator : SV106:ljg
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1939040
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 25 06:34:43 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240624RVTical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.463	152	29795	4.000	ug/ml	0.00
Standard Area 1 = 32759			Recovery = 90.95%			
86) IS3_Acenaphthene-d10	9.657	164	68746	4.000	ug/ml	0.00
Standard Area 1 = 76462			Recovery = 89.91%			
100) IS3_Phenanthrene-d10	11.098	188	162297	4.000	ug/ml	0.00
Standard Area 1 = 180522			Recovery = 89.90%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.857	88	18691	4.293	ug/ml#	100
34) n-Decane	6.357	57	61707	4.984	ug/ml#	43
87) Atrazine	10.863	200	38018	4.349	ug/ml	95
101) n-Octadecane	11.074	57	98298	4.869	ug/ml#	1
102) Parathion	11.880	109	22600	4.486	ug/ml	98
103) 3,3'-Dimethylbenzidine	13.174	212	152633	4.758	ug/ml	100

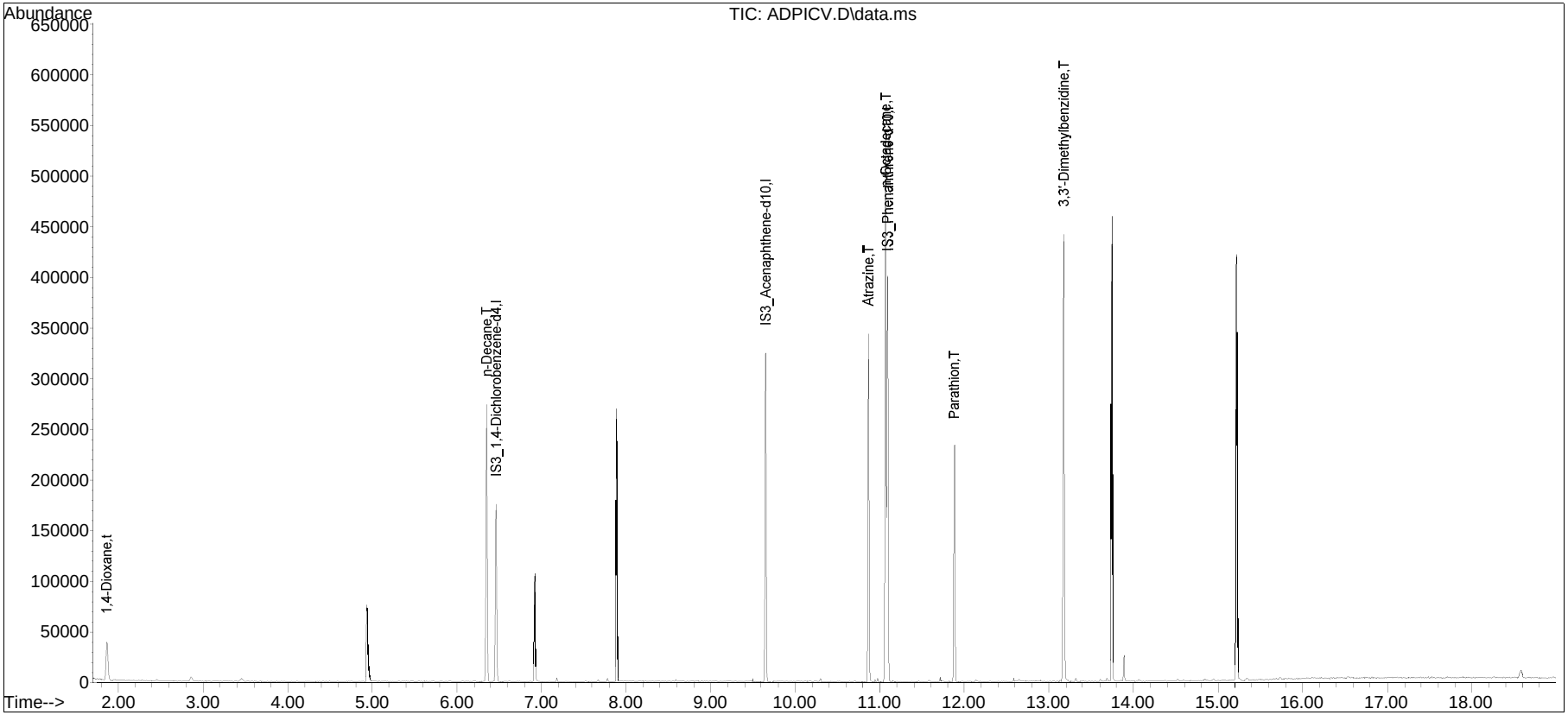
(#) = qualifier out of range (m) = manual integration (+) = signals summed

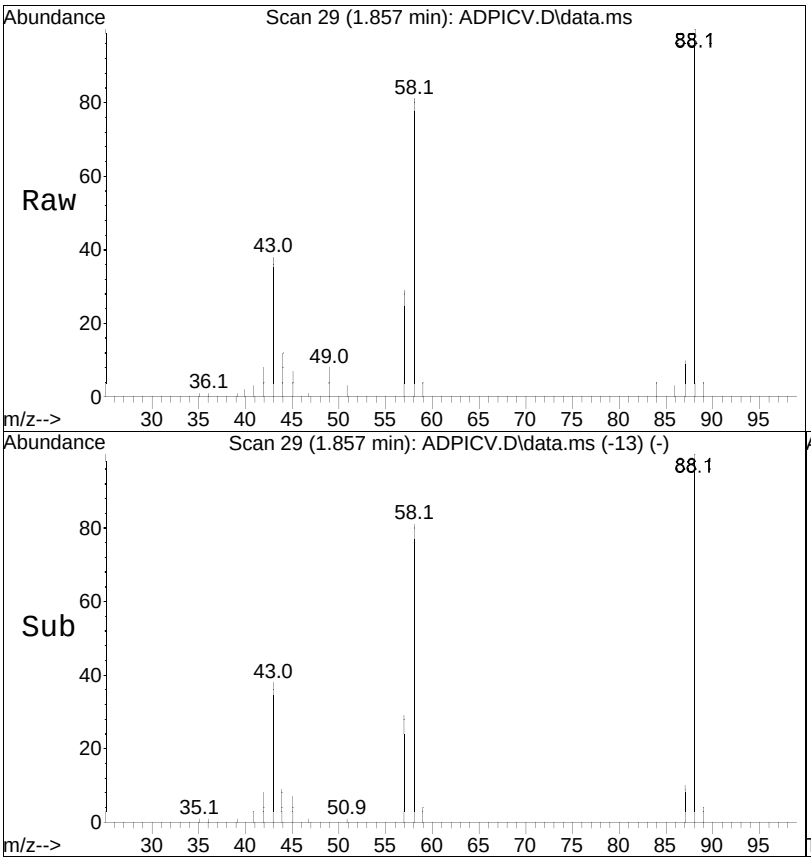
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240624RVTical\
Data File : ADPICV.D
Acq On : 25 Jun 2024 4:48 am
Operator : SV106:ljg
Sample : CQICV3,32,,ADPICV Lot# 10807
Misc : WG1939040
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 25 06:34:43 2024
Quant Method : I:\8270\SV106\240624RVTical\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 25 06:28:35 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistTical\ADPL6.D•

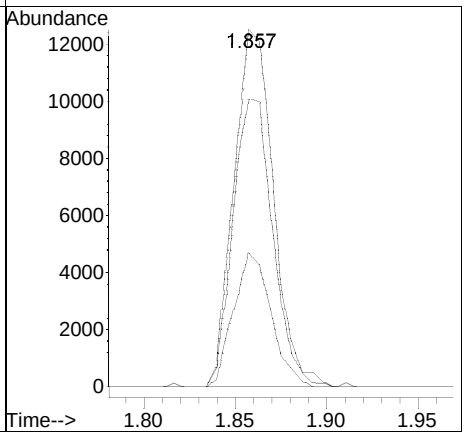


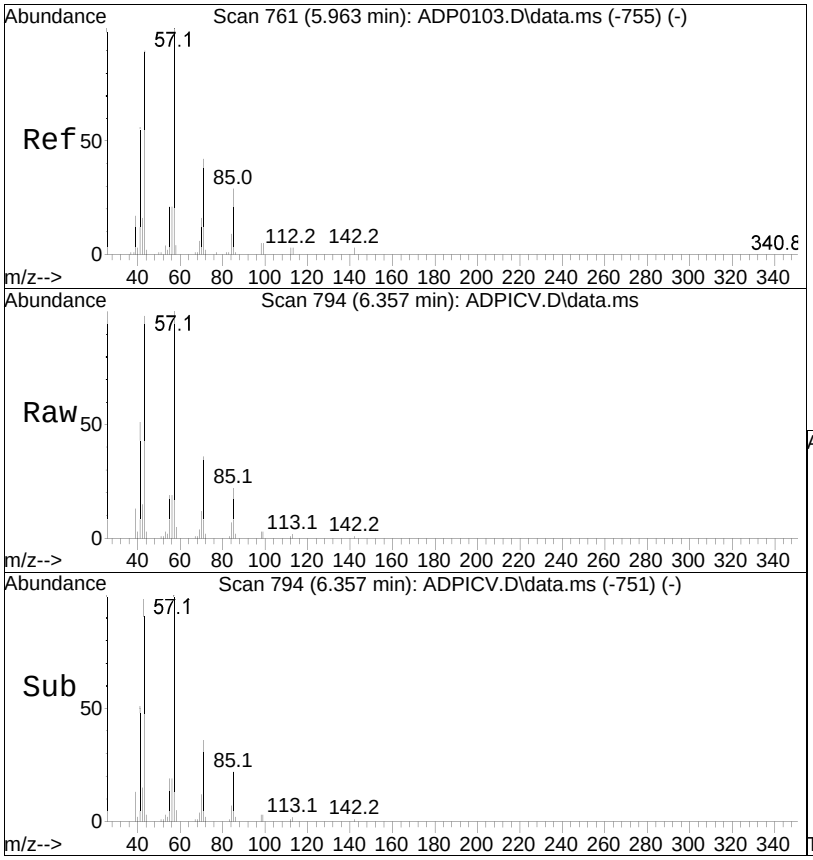


#33
1,4-Dioxane
Concen: 4.29 ug/ml
RT: 1.857 min Scan# 29
Delta R.T. -0.006 min
Lab File: ADPICV.D
Acq: 25 Jun 2024 4:48 am

Tgt Ion: 88 Resp: 18691

Ion	Ratio	Lower	Upper
88	100		
58	80.8	0.0	0.0#
43	35.7	0.0	0.0#

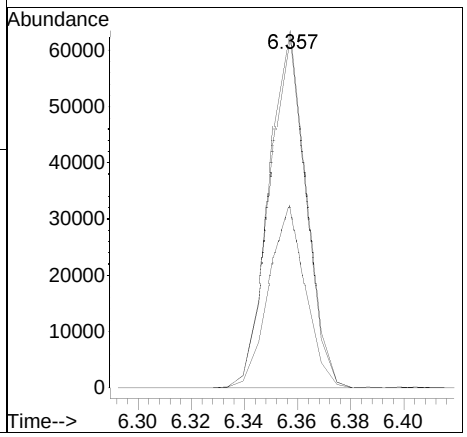


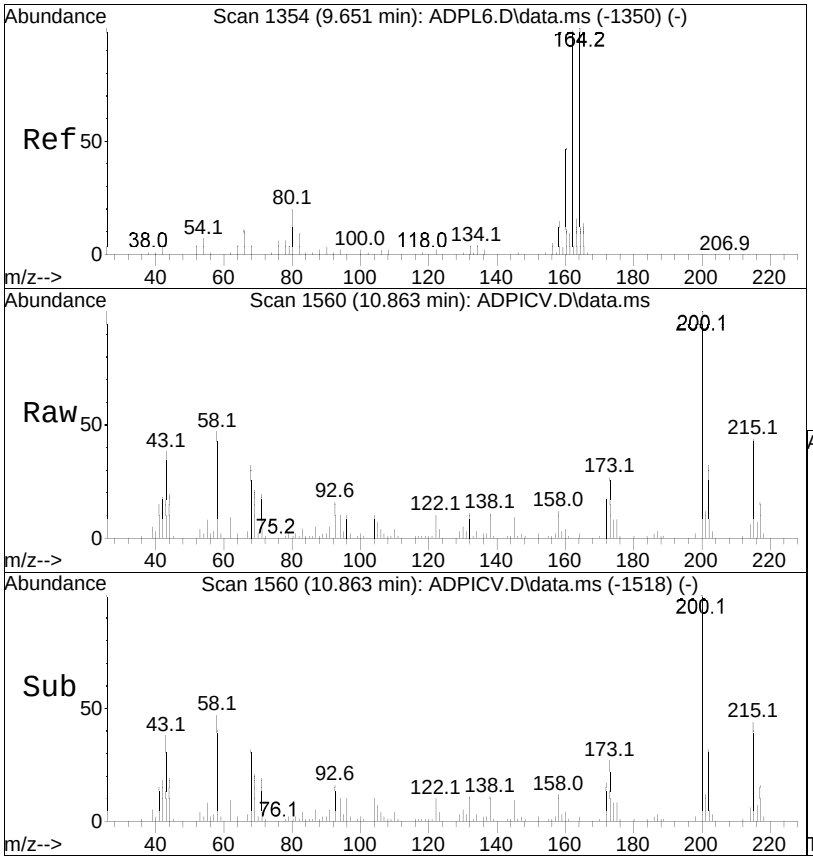


#34
n-Decane
Concen: 4.98 ug/ml
RT: 6.357 min Scan# 794
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 25 Jun 2024 4:48 am

Tgt Ion: 57 Resp: 61707

Ion	Ratio	Lower	Upper
57	100		
43	96.3	0.2	0.2#
41	50.3	0.2	0.2#

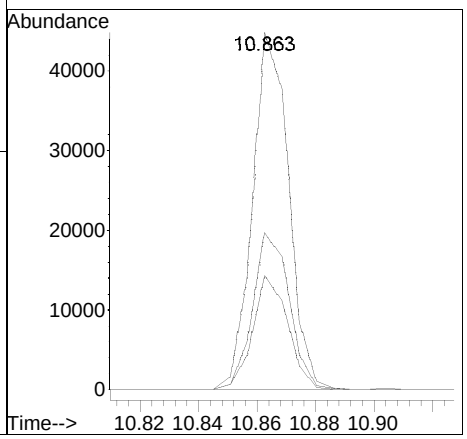


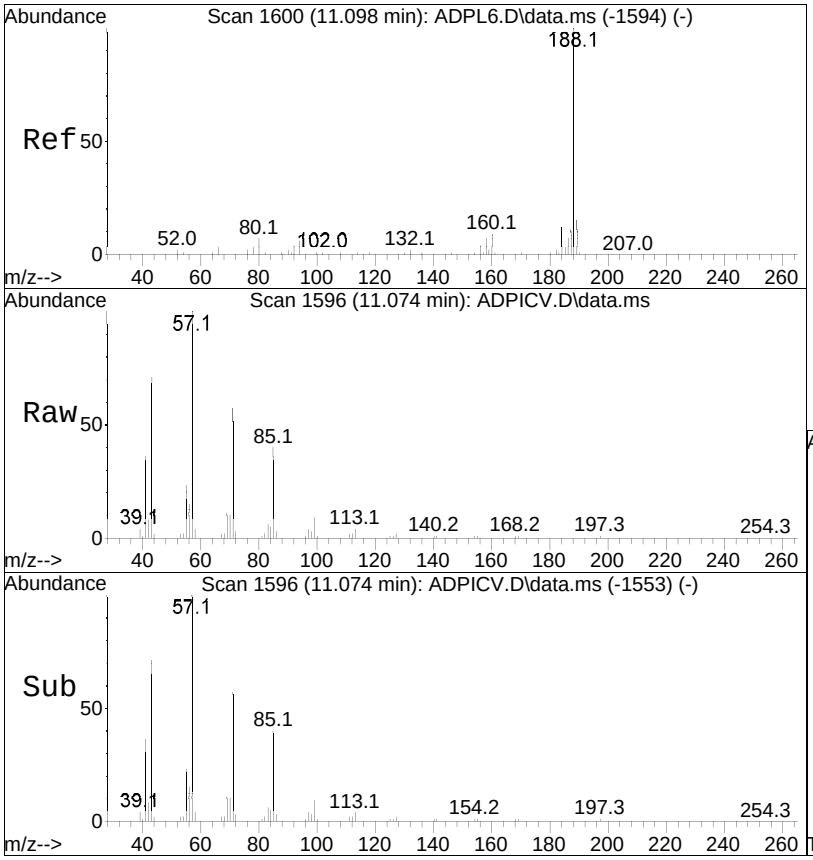


#87
Atrazine
Concen: 4.35 ug/ml
RT: 10.863 min Scan# 1560
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 25 Jun 2024 4:48 am

Tgt Ion:200 Resp: 38018

Ion	Ratio	Lower	Upper
200	100		
202	31.4	25.8	38.6
215	44.8	40.2	60.4

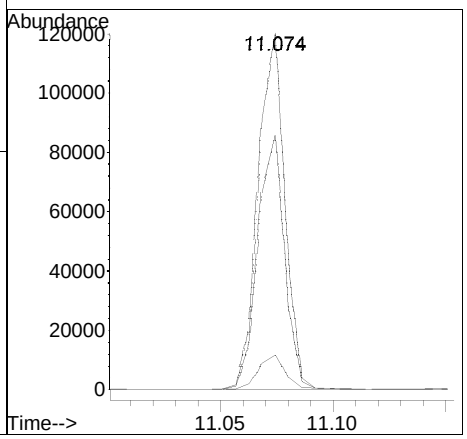


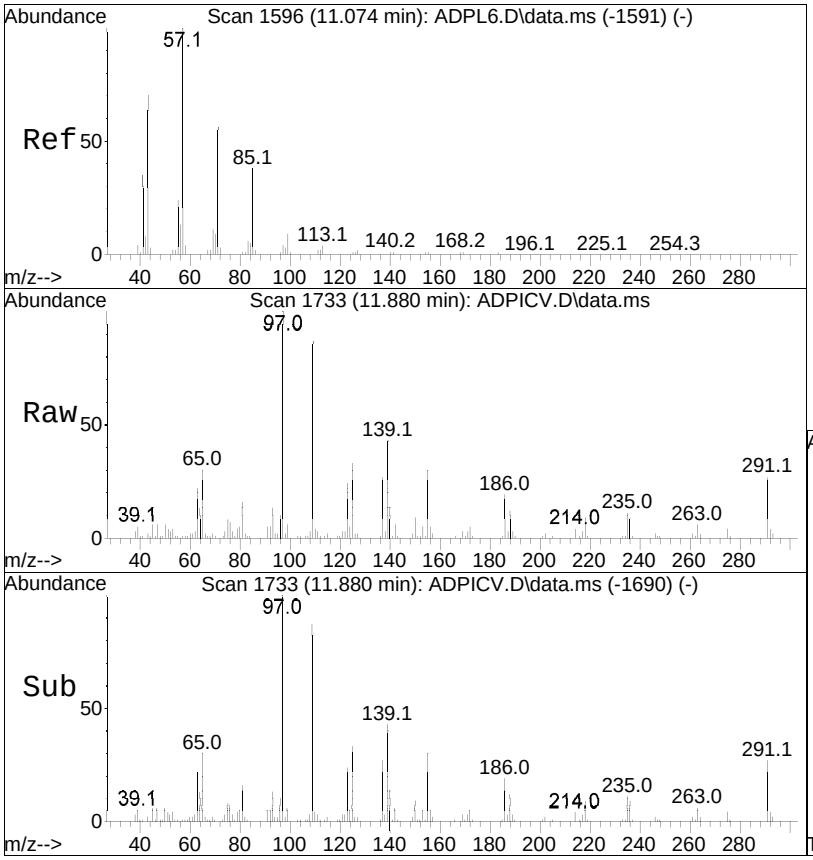


#101
n-Octadecane
Concen: 4.87 ug/ml
RT: 11.074 min Scan# 1596
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 25 Jun 2024 4:48 am

Tgt Ion: 57 Resp: 98298

Ion	Ratio	Lower	Upper
57	100		
43	71.5	9.0	13.6#
70	10.0	0.2	0.2#

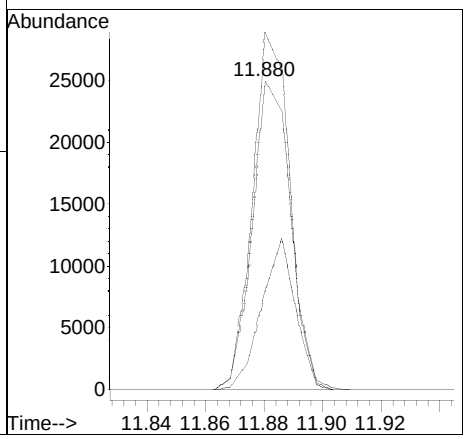


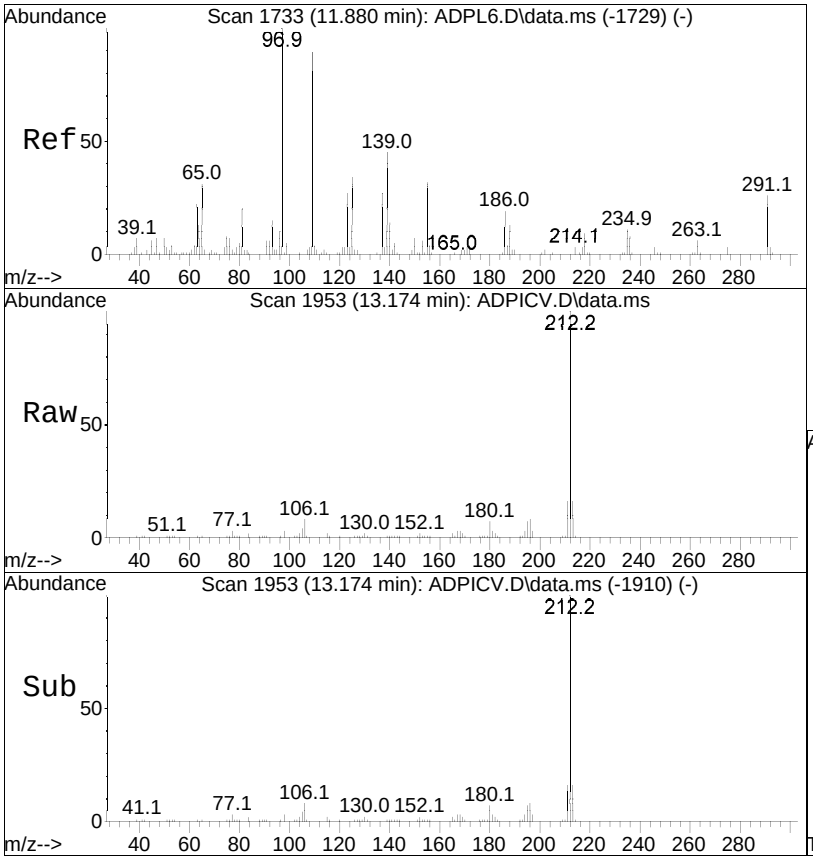


#102
Parathion
Concen: 4.49 ug/ml
RT: 11.880 min Scan# 1733
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 25 Jun 2024 4:48 am

Tgt Ion:109 Resp: 22600

Ion	Ratio	Lower	Upper
109	100		
97	112.1	87.4	131.2
291	43.6	34.2	51.2

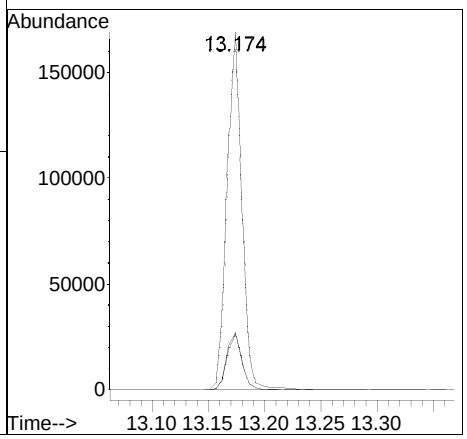




#103
3,3'-Dimethylbenzidine
Concen: 4.76 ug/ml
RT: 13.174 min Scan# 1953
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 25 Jun 2024 4:48 am

Tgt Ion:212 Resp: 152633

Ion	Ratio	Lower	Upper
212	100		
211	15.9	12.9	19.3
213	16.5	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV106\240624RVTica	QMethod	: FS240624SV106.m
Data File	: ADPICV.D	Operator	: SV106:ljg
Date Inj'd	: 6/25/2024 4:48 am	Instrument	: SV 106
Sample	: CQICV3,32,,ADPICV Lot# 108	Quant Date	: 6/25/2024 6:35 am

There are no manual integrations or false positives in this file.

Evaluate Relative Error Report SV 106

Method Path : I:\8270\SV106\240624RVTical\
Method File : FS240624SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Jun 25 06:28:35 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
37	T Benzoic Acid	Q	ug/ml	5.0	4.700	-6.0	0.50	0.589	17.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
37	T Benzoic Acid	Quadratic	0.999198	0.003511	0.293629	-0.026998

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:21		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-3	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	70	0
n-Nitrosodimethylamine	0.851	0.764	-	10.2	20	69	0
Pyridine	1.392	1.226	-	11.9	20	67	0
2-Fluorophenol	1.156	1.158	-	-0.2	20	75	0
Aniline	2.049	1.864	-	9	20	70	0
2-Chlorophenol	1.288	1.149	-	10.8	20	70	0
Phenol-d6	1.583	1.443	-	8.8	20	72	0
Phenol	1.642	1.573	-	4.2	20	74	0
Bis(2-chloroethyl)ether	1.348	1.095	-	18.8	20	63	0
1,3-Dichlorobenzene	1.546	1.389	-	10.2	20	70	0
1,4-Dichlorobenzene	1.565	1.386	-	11.4	20	70	0
1,2-Dichlorobenzene	1.522	1.354	-	11	20	70	0
Benzyl alcohol	1.267	1.182	-	6.7	20	72	0
Bis(2-chloroisopropyl)ethe	2.166	0.635	-	70.7*	20	23	0
2-Methylphenol	1.183	1.123	-	5.1	20	73	0
Hexachloroethane	0.623	0.517	-	17	20	67	0
n-Nitrosodi-n-propylamine	1.057	0.919	-	13.1	20	65	0
3-Methylphenol/4-Methylphe	1.279	1.262	-	1.3	20	77	0
Nitrobenzene-d5	1.619	1.435	-	11.4	20	69	0
Nitrobenzene	1.643	1.421	-	13.5	20	68	0
Isophorone	2.76	2.435	-	11.8	20	66	0
2-Nitrophenol	0.692	0.681	-	1.6	20	74	0
2,4-Dimethylphenol	1.301	1.187	-	8.8	20	70	0
Bis(2-chloroethoxy)methane	1.778	1.416	-	20.4*	20	62	0
2,4-Dichlorophenol	1.233	1.147	-	7	20	70	0
1,2,4-Trichlorobenzene	1.51	1.345	-	10.9	20	72	0
IS1_Naphthalene-d8	1	1	-	0	20	68	0
Naphthalene	1.147	1	-	12.8	20	68	0
Benzoic Acid	5	3.806	-	23.9*	20	54	0
4-Chloroaniline	0.169	0.135	-	20.1*	20	58	0
Hexachlorobutadiene	0.303	0.292	-	3.6	20	76	0
p-Chloro-m-cresol	0.343	0.339	-	1.2	20	72	0
2-Methylnaphthalene	0.764	0.708	-	7.3	20	70	0
1-Methylnaphthalene	0.29	0.28	-	3.4	20	72	0
Hexachlorocyclopentadiene	0.336	0.343	-	-2.1	20	75	0
2,4,6-Trichlorophenol	0.301	0.307	-	-2	20	74	0
2,4,5-Trichlorophenol	0.322	0.32	-	0.6	20	70	0
2-Fluorobiphenyl	1.027	0.894	-	13	20	66	0
2-Chloronaphthalene	0.813	0.765	-	5.9	20	71	0
2-Nitroaniline	0.245	0.242	-	1.2	20	71	0
1,4-Dinitrobenzene	0.129	0.137	-	-6.2	20	76	0
1,3-Dinitrobenzene	0.147	0.145	-	1.4	20	69	0
Dimethyl phthalate	0.989	0.937	-	5.3	20	69	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:21		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-3	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.244	1.15	-	7.6	20	67	0
2,6-Dinitrotoluene	0.213	0.221	-	-3.8	20	73	0
1,2-Dinitrobenzene	0.091	0.095	-	-4.4	20	73	0
IS1_Acenaphthene-d10	1	1	-	0	20	72	0
3-Nitroaniline	0.319	0.341	-	-6.9	20	77	0
Acenaphthene	1.153	1.006	-	12.7	20	69	0
2,4-Dinitrophenol	0.213	0.225	-	-5.6	20	75	0
Dibenzofuran	1.936	1.647	-	14.9	20	68	0
2,4-Dinitrotoluene	0.475	0.45	-	5.3	20	70	0
4-Nitrophenol	0.323	0.284	-	12.1	20	67	0
2,3,5,6-Tetrachlorophenol	0.452	0.464	-	-2.7	20	76	0
2,3,4,6-Tetrachlorophenol	0.435	0.438	-	-0.7	20	73	0
Diethyl phthalate	1.529	1.322	-	13.5	20	68	0
Fluorene	1.523	1.337	-	12.2	20	68	0
4-Chlorophenyl phenyl ethe	0.801	0.722	-	9.9	20	74	0
4-Nitroaniline	0.333	0.312	-	6.3	20	72	0
4,6-Dinitro-o-cresol	0.266	0.305	-	-14.7	20	78	0
NDPA/DPA	1.263	1.158	-	8.3	20	70	0
Azobenzene	1.446	1.241	-	14.2	20	66	0
2,4,6-Tribromophenol	0.249	0.268	-	-7.6	20	79	0
4-Bromophenyl phenyl ether	0.5	0.48	-	4	20	76	0
Hexachlorobenzene	0.569	0.559	-	1.8	20	79	0
Pentachlorophenol	0.361	0.377	-	-4.4	20	73	0
IS1_Phenanthrene-d10	1	1	-	0	20	73	0
Phenanthrene	1.117	0.957	-	14.3	20	71	0
Anthracene	1.111	0.957	-	13.9	20	69	0
Carbazole	1.018	0.887	-	12.9	20	70	0
Di-n-butylphthalate	1.195	1.027	-	14.1	20	67	0
Fluoranthene	1.366	1.217	-	10.9	20	72	0
Benzidine	0.741	0.774	-	-4.5	20	77	0
Pyrene	1.44	1.279	-	11.2	20	72	0
4-Terphenyl-d14	1.076	0.997	-	7.3	20	76	0
Butyl benzyl phthalate	0.55	0.5	-	9.1	20	73	0
IS1_Chrysene-d12	1	1	-	0	20	84	0
Benzo(a)anthracene	1.478	1.311	-	11.3	20	84	0
3,3'-Dichlorobenzidine	0.489	0.528	-	-8	20	90	0
Chrysene	1.429	1.228	-	14.1	20	82	0
Bis(2-ethylhexyl)phthalate	0.817	0.648	-	20.7*	20	68	0
Di-n-octylphthalate	1.352	1.178	-	12.9	20	76	0
Benzo(b)fluoranthene	1.43	1.45	-	-1.4	20	98	0
Benzo(k)fluoranthene	1.356	1.243	-	8.3	20	82	0
Benzo(a)pyrene	1.242	1.256	-	-1.1	20	91	0
IS1_Perylene-d12	1	1	-	0	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:21		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-3	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.082	1.092	-	-0.9	20	92	0
Dibenzo(a,h)anthracene	1.042	1.074	-	-3.1	20	94	0
Benzo(ghi)perylene	0.964	1.036	-	-7.5	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:45		
Lab File ID	: AP90924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-4	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	114	0
Benzaldehyde	1.187	1.105	-	6.9	20	107	0
Acetophenone	2.158	1.974	-	8.5	20	105	0
m-Toluidine	1.957	1.737	-	11.2	20	102	0
2-Chloroaniline	1.709	1.556	-	9	20	105	0
IS2_Naphthalene-d8	1	1	-	0	20	114	0
a-Terpineol	0.4	0.219	-	45.3*	20	63	0
3-Chloroaniline	0.201	0.158	-	21.4*	20	91	0
2,6-Dichlorophenol	0.362	0.334	-	7.7	20	102	0
1-chloro-2-nitrobenzene	0.18	0.163	-	9.4	20	100	0
Caprolactam	0.21	0.103	-	51*	20	52	0
1,2,4,5-Tetrachlorobenzene	0.548	0.501	-	8.6	20	108	0
Biphenyl	1.084	0.937	-	13.6	20	101	0
IS2_Acenaphthene-d10	1	1	-	0	20	126	0
Dichloran	0.247	0.233	-	5.7	20	112	0
Pentachloronitrobenzene	0.27	0.281	-	-4.1	20	122	0
IS2_Phenanthrene-d10	1	1	-	0	20	112	0
Diphenamid	0.561	0.52	-	7.3	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 08:09		
Lab File ID	: ADP0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-5	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	76	0
1,4-Dioxane	0.584	0.518	-	11.3	20	80	0
n-Decane	1.662	0.929	-	44.1*	20	46	0
IS3_Acenaphthene-d10	1	1	-	0	20	80	0
Atrazine	0.509	0.503	-	1.2	20	87	0
IS3_Phenanthrene-d10	1	1	-	0	20	74	0
n-Octadecane	0.498	0.259	-	48*	20	41	0
Parathion	0.124	0.13	-	-4.8	20	84	0
3,3'-Dimethylbenzidine	0.791	1.018	-	-28.7*	20	94	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:04		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	137	0
n-Nitrosodimethylamine	0.71	0.741	-	-4.4	20	143	0
Pyridine	1.086	1.257	-	-15.7	20	145	0
2-Fluorophenol	1.08	1.203	-	-11.4	20	152	0
Aniline	1.765	1.782	-	-1	20	149	0
2-Chlorophenol	1.294	1.255	-	3	20	140	0
Phenol-d6	1.413	1.389	-	1.7	20	143	0
Phenol	1.566	1.509	-	3.6	20	143	0
Bis(2-chloroethyl)ether	1.247	1.194	-	4.3	20	147	0
1,3-Dichlorobenzene	1.587	1.459	-	8.1	20	136	0
1,4-Dichlorobenzene	1.599	1.502	-	6.1	20	139	0
1,2-Dichlorobenzene	1.562	1.409	-	9.8	20	135	0
Benzyl alcohol	1.01	1.025	-	-1.5	20	153	0
Bis(2-chloroisopropyl)ethe	1.617	2.095	-	-29.6*	20	197	0
2-Methylphenol	1.126	1.101	-	2.2	20	151	0
Hexachloroethane	0.563	0.575	-	-2.1	20	145	0
n-Nitrosodi-n-propylamine	0.862	0.859	-	0.3	20	152	0
3-Methylphenol/4-Methylphe	1.241	1.197	-	3.5	20	151	0
Nitrobenzene-d5	1.368	1.342	-	1.9	20	148	0
Nitrobenzene	1.312	1.345	-	-2.5	20	153	0
Isophorone	2.344	2.291	-	2.3	20	148	0
2-Nitrophenol	0.667	0.631	-	5.4	20	146	0
2,4-Dimethylphenol	1.081	1.209	-	-11.8	20	250	0
Bis(2-chloroethoxy)methane	1.585	1.506	-	5	20	150	0
2,4-Dichlorophenol	1.18	1.122	-	4.9	20	143	0
1,2,4-Trichlorobenzene	1.405	1.226	-	12.7	20	135	0
IS1_Naphthalene-d8	1	1	-	0	20	133	0
Naphthalene	1.132	1.055	-	6.8	20	141	0
Benzoic Acid	5	4.769	-	4.6	20	141	0
4-Chloroaniline	0.126	0.139	-	-10.3	20	152	0
Hexachlorobutadiene	0.224	0.21	-	6.3	20	136	0
p-Chloro-m-cresol	0.283	0.315	-	-11.3	20	163	0
2-Methylnaphthalene	0.737	0.711	-	3.5	20	144	0
1-Methylnaphthalene	0.238	0.246	-	-3.4	20	150	0
Hexachlorocyclopentadiene	0.212	0.237	-	-11.8	20	159	0
2,4,6-Trichlorophenol	0.234	0.23	-	1.7	20	139	0
2,4,5-Trichlorophenol	0.249	0.245	-	1.6	20	138	0
2-Fluorobiphenyl	0.9	0.786	-	12.7	20	136	0
2-Chloronaphthalene	0.763	0.7	-	8.3	20	143	0
2-Nitroaniline	0.204	0.2	-	2	20	147	0
1,4-Dinitrobenzene	0.11	0.098	-	10.9	20	146	0
1,3-Dinitrobenzene	0.129	0.114	-	11.6	20	144	0
Dimethyl phthalate	0.863	0.765	-	11.4	20	138	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:04		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.031	-	8.9	20	139	0
2,6-Dinitrotoluene	0.169	0.164	-	3	20	142	0
1,2-Dinitrobenzene	0.077	0.072	-	6.5	20	141	0
IS1_Acenaphthene-d10	1	1	-	0	20	134	0
3-Nitroaniline	0.32	0.316	-	1.3	20	137	0
Acenaphthene	1.138	1.076	-	5.4	20	142	0
2,4-Dinitrophenol	5	5.182	-	-3.6	20	193	0
Dibenzofuran	1.879	1.751	-	6.8	20	143	0
2,4-Dinitrotoluene	0.408	0.389	-	4.7	20	140	0
4-Nitrophenol	0.253	0.273	-	-7.9	20	153	0
2,3,5,6-Tetrachlorophenol	0.341	0.342	-	-0.3	20	136	0
2,3,4,6-Tetrachlorophenol	0.325	0.325	-	0	20	131	0
Diethyl phthalate	1.327	1.325	-	0.2	20	154	0
Fluorene	1.404	1.337	-	4.8	20	143	0
4-Chlorophenyl phenyl ethe	0.713	0.634	-	11.1	20	135	0
4-Nitroaniline	0.32	0.303	-	5.3	20	135	0
4,6-Dinitro-o-cresol	5	4.537	-	9.3	20	164	0
NDPA/DPA	1.166	1.1	-	5.7	20	140	0
Azobenzene	1.226	1.279	-	-4.3	20	152	0
2,4,6-Tribromophenol	0.187	0.129	-	31*	20	102	0
4-Bromophenyl phenyl ether	0.385	0.327	-	15.1	20	129	0
Hexachlorobenzene	0.425	0.316	-	25.6*	20	112	0
Pentachlorophenol	5	3.831	-	23.4*	20	123	0
IS1_Phenanthrene-d10	1	1	-	0	20	130	0
Phenanthrene	1.151	1.104	-	4.1	20	141	0
Anthracene	1.089	1.094	-	-0.5	20	143	0
Carbazole	0.994	0.996	-	-0.2	20	141	0
Di-n-butylphthalate	1.094	1.154	-	-5.5	20	158	0
Fluoranthene	1.261	1.208	-	4.2	20	138	0
Benzidine	5	4.939	-	1.2	20	178	0
Pyrene	1.372	1.295	-	5.6	20	137	0
4-Terphenyl-d14	0.946	0.785	-	17	20	123	0
Butyl benzyl phthalate	5	4.239	-	15.2	20	160	0
IS1_Chrysene-d12	1	1	-	0	20	124	0
Benzo(a)anthracene	1.453	1.373	-	5.5	20	127	0
3,3'-Dichlorobenzidine	5	4.109	-	17.8	20	125	0
Chrysene	1.403	1.302	-	7.2	20	125	0
Bis(2-ethylhexyl)phthalate	5	5.273	-	-5.5	20	154	0
Di-n-octylphthalate	5	4.848	-	3	20	164	0
Benzo(b)fluoranthene	1.251	1.213	-	3	20	125	0
Benzo(k)fluoranthene	1.251	1.242	-	0.7	20	120	0
Benzo(a)pyrene	1.101	1.134	-	-3	20	126	0
IS1_Perylene-d12	1	1	-	0	20	114	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:04		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	1.134	-	-3.3	20	121	0
Dibenzo(a,h)anthracene	1.056	1.053	-	0.3	20	115	0
Benzo(ghi)perylene	0.977	1.051	-	-7.6	20	117	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:29		
Lab File ID	: AP90924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	118	0
Benzaldehyde	1.145	1.037	-	9.4	20	112	0
Acetophenone	2.032	1.813	-	10.8	20	111	0
m-Toluidine	1.86	1.735	-	6.7	20	108	0
2-Chloroaniline	1.773	1.502	-	15.3	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	116	0
a-Terpineol	0.297	0.313	-	-5.4	20	119	0
3-Chloroaniline	0.163	0.16	-	1.8	20	112	0
2,6-Dichlorophenol	0.319	0.285	-	10.7	20	100	0
1-chloro-2-nitrobenzene	0.155	0.144	-	7.1	20	109	0
Caprolactam	5	4.813	-	3.7	20	125	0
1,2,4,5-Tetrachlorobenzene	0.444	0.354	-	20.3*	20	97	0
Biphenyl	1.036	0.832	-	19.7	20	99	0
IS2_Acenaphthene-d10	1	1	-	0	20	109	0
Dichloran	5	3.593	-	28.1*	20	93	0
Pentachloronitrobenzene	5	3.877	-	22.5*	20	96	0
IS2_Phenanthrene-d10	1	1	-	0	20	96	0
Diphenamid	0.507	0.45	-	11.2	20	89	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:54		
Lab File ID	: ADP0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
1,4-Dioxane	0.459	0.5	-	-8.9	20	140	0
n-Decane	1.388	1.708	-	-23.1*	20	152	0
IS3_Acenaphthene-d10	1	1	-	0	20	106	0
Atrazine	0.315	0.327	-	-3.8	20	110	0
IS3_Phenanthrene-d10	1	1	-	0	20	98	0
n-Octadecane	0.381	0.551	-	-44.6*	20	144	0
Parathion	5	5.986	-	-19.7	20	142	0
3,3'-Dimethylbenzidine	5	4.588	-	8.2	20	117	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 08:59		
Lab File ID	: ABN0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	149	0
n-Nitrosodimethylamine	0.71	0.731	-	-3	20	153	0
Pyridine	1.086	1.216	-	-12	20	152	0
2-Fluorophenol	1.08	1.175	-	-8.8	20	162	0
Aniline	1.765	1.767	-	-0.1	20	161	0
2-Chlorophenol	1.294	1.25	-	3.4	20	151	0
Phenol-d6	1.413	1.408	-	0.4	20	158	0
Phenol	1.566	1.524	-	2.7	20	157	0
Bis(2-chloroethyl)ether	1.247	1.198	-	3.9	20	160	0
1,3-Dichlorobenzene	1.587	1.464	-	7.8	20	148	0
1,4-Dichlorobenzene	1.599	1.478	-	7.6	20	149	0
1,2-Dichlorobenzene	1.562	1.41	-	9.7	20	148	0
Benzyl alcohol	1.01	1.046	-	-3.6	20	170	0
Bis(2-chloroisopropyl)ethe	1.617	2.057	-	-27.2*	20	211	0
2-Methylphenol	1.126	1.114	-	1.1	20	166	0
Hexachloroethane	0.563	0.592	-	-5.2	20	163	0
n-Nitrosodi-n-propylamine	0.862	0.855	-	0.8	20	165	0
3-Methylphenol/4-Methylphe	1.241	1.225	-	1.3	20	168	0
Nitrobenzene-d5	1.368	1.327	-	3	20	160	0
Nitrobenzene	1.312	1.36	-	-3.7	20	169	0
Isophorone	2.344	2.329	-	0.6	20	164	0
2-Nitrophenol	0.667	0.652	-	2.2	20	164	0
2,4-Dimethylphenol	1.081	1.217	-	-12.6	20	274	0
Bis(2-chloroethoxy)methane	1.585	1.514	-	4.5	20	165	0
2,4-Dichlorophenol	1.18	1.133	-	4	20	158	0
1,2,4-Trichlorobenzene	1.405	1.259	-	10.4	20	151	0
IS1_Naphthalene-d8	1	1	-	0	20	146	0
Naphthalene	1.132	1.025	-	9.5	20	150	0
Benzoic Acid	5	5.241	-	-4.8	20	177	0
4-Chloroaniline	0.126	0.143	-	-13.5	20	171	0
Hexachlorobutadiene	0.224	0.222	-	0.9	20	158	0
p-Chloro-m-cresol	0.283	0.314	-	-11	20	178	0
2-Methylnaphthalene	0.737	0.694	-	5.8	20	154	0
1-Methylnaphthalene	0.238	0.245	-	-2.9	20	165	0
Hexachlorocyclopentadiene	0.212	0.233	-	-9.9	20	172	0
2,4,6-Trichlorophenol	0.234	0.238	-	-1.7	20	159	0
2,4,5-Trichlorophenol	0.249	0.238	-	4.4	20	147	0
2-Fluorobiphenyl	0.9	0.786	-	12.7	20	150	0
2-Chloronaphthalene	0.763	0.691	-	9.4	20	155	0
2-Nitroaniline	0.204	0.207	-	-1.5	20	167	0
1,4-Dinitrobenzene	0.11	0.106	-	3.6	20	174	0
1,3-Dinitrobenzene	0.129	0.12	-	7	20	167	0
Dimethyl phthalate	0.863	0.813	-	5.8	20	161	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 08:59		
Lab File ID	: ABN0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.079	-	4.7	20	160	0
2,6-Dinitrotoluene	0.169	0.171	-	-1.2	20	163	0
1,2-Dinitrobenzene	0.077	0.078	-	-1.3	20	167	0
IS1_Acenaphthene-d10	1	1	-	0	20	152	0
3-Nitroaniline	0.32	0.333	-	-4.1	20	162	0
Acenaphthene	1.138	1.082	-	4.9	20	161	0
2,4-Dinitrophenol	5	5.309	-	-6.2	20	224	0
Dibenzofuran	1.879	1.733	-	7.8	20	160	0
2,4-Dinitrotoluene	0.408	0.41	-	-0.5	20	167	0
4-Nitrophenol	0.253	0.283	-	-11.9	20	179	0
2,3,5,6-Tetrachlorophenol	0.341	0.363	-	-6.5	20	163	0
2,3,4,6-Tetrachlorophenol	0.325	0.343	-	-5.5	20	156	0
Diethyl phthalate	1.327	1.388	-	-4.6	20	182	0
Fluorene	1.404	1.386	-	1.3	20	167	0
4-Chlorophenyl phenyl ethe	0.713	0.659	-	7.6	20	159	0
4-Nitroaniline	0.32	0.317	-	0.9	20	160	0
4,6-Dinitro-o-cresol	5	5.057	-	-1.1	20	208	0
NDPA/DPA	1.166	1.132	-	2.9	20	162	0
Azobenzene	1.226	1.354	-	-10.4	20	182	0
2,4,6-Tribromophenol	0.187	0.138	-	26.2*	20	123	0
4-Bromophenyl phenyl ether	0.385	0.339	-	11.9	20	151	0
Hexachlorobenzene	0.425	0.337	-	20.7*	20	134	0
Pentachlorophenol	5	4.226	-	15.5	20	157	0
IS1_Phenanthrene-d10	1	1	-	0	20	153	0
Phenanthrene	1.151	1.102	-	4.3	20	165	0
Anthracene	1.089	1.122	-	-3	20	173	0
Carbazole	0.994	1.033	-	-3.9	20	171	0
Di-n-butylphthalate	1.094	1.254	-	-14.6	20	203	0
Fluoranthene	1.261	1.307	-	-3.6	20	175	0
Benzidine	5	5.337	-	-6.7	20	229	0
Pyrene	1.372	1.381	-	-0.7	20	171	0
4-Terphenyl-d14	0.946	0.853	-	9.8	20	158	0
Butyl benzyl phthalate	5	5.035	-	-0.7	20	228	0
IS1_Chrysene-d12	1	1	-	0	20	169	0
Benzo(a)anthracene	1.453	1.365	-	6.1	20	173	0
3,3'-Dichlorobenzidine	5	4.274	-	14.5	20	178	0
Chrysene	1.403	1.272	-	9.3	20	167	0
Bis(2-ethylhexyl)phthalate	5	5.537	-	-10.7	20	221	0
Di-n-octylphthalate	5	5.306	-	-6.1	20	248	0
Benzo(b)fluoranthene	1.251	1.303	-	-4.2	20	184	0
Benzo(k)fluoranthene	1.251	1.107	-	11.5	20	147	0
Benzo(a)pyrene	1.101	1.106	-	-0.5	20	168	0
IS1_Perylene-d12	1	1	-	0	20	156	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 08:59		
Lab File ID	: ABN0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	1.072	-	2.4	20	157	0
Dibenzo(a,h)anthracene	1.056	1.025	-	2.9	20	154	0
Benzo(ghi)perylene	0.977	1.009	-	-3.3	20	154	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 09:24		
Lab File ID	: AP90925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	136	0
Benzaldehyde	1.145	1.006	-	12.1	20	124	0
Acetophenone	2.032	1.727	-	15	20	121	0
m-Toluidine	1.86	1.664	-	10.5	20	119	0
2-Chloroaniline	1.773	1.489	-	16	20	115	0
IS2_Naphthalene-d8	1	1	-	0	20	133	0
a-Terpineol	0.297	0.301	-	-1.3	20	131	0
3-Chloroaniline	0.163	0.156	-	4.3	20	126	0
2,6-Dichlorophenol	0.319	0.286	-	10.3	20	114	0
1-chloro-2-nitrobenzene	0.155	0.14	-	9.7	20	121	0
Caprolactam	5	4.638	-	7.2	20	137	0
1,2,4,5-Tetrachlorobenzene	0.444	0.349	-	21.4*	20	109	0
Biphenyl	1.036	0.808	-	22*	20	110	0
IS2_Acenaphthene-d10	1	1	-	0	20	128	0
Dichloran	5	3.615	-	27.7*	20	109	0
Pentachloronitrobenzene	5	4.144	-	17.1	20	122	0
IS2_Phenanthrene-d10	1	1	-	0	20	119	0
Diphenamid	0.507	0.443	-	12.6	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 09:49		
Lab File ID	: ADP0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	120	0
1,4-Dioxane	0.459	0.487	-	-6.1	20	146	0
n-Decane	1.388	1.674	-	-20.6*	20	159	0
IS3_Acenaphthene-d10	1	1	-	0	20	120	0
Atrazine	0.315	0.356	-	-13	20	136	0
IS3_Phenanthrene-d10	1	1	-	0	20	113	0
n-Octadecane	0.381	0.545	-	-43*	20	165	0
Parathion	5	6.56	-	-31.2*	20	183	0
3,3'-Dimethylbenzidine	5	4.999	-	0	20	152	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 7:21 am
Operator : SV106:smz
Sample : wg1975455-3,32,,ABN 10908 HNY0826A
Misc : wg1975455,,ical21231
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 08:20:48 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:21:46 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	70	0.00
2	t	n-Nitrosodimethylamine		0.851	0.764	10.2	69	0.00
3	t	Pyridine		1.392	1.226	11.9	67	0.00
4	S	2-Fluorophenol		1.156	1.158	-0.2	75	0.00
5	T	Aniline		2.049	1.864	9.0	70	0.00
6	t	2-Chlorophenol		1.288	1.149	10.8	70	0.00
7	S	Phenol-d6		1.583	1.443	8.8	72	0.00
8	T	Phenol		1.642	1.573	4.2	74	0.00
9	T	Bis(2-chloroethyl)ether		1.348	1.095	18.8	63	0.00
10	T	1,3-Dichlorobenzene		1.546	1.389	10.2	70	0.00
11	T	1,4-Dichlorobenzene		1.565	1.386	11.4	70	0.00
12	T	1,2-Dichlorobenzene		1.522	1.354	11.0	70	0.00
13	t	Benzyl alcohol		1.267	1.182	6.7	72	0.00
14	T	Bis(2-chloroisopropyl)ether		2.166	0.635	70.7#	23#	0.00
15	T	2-Methylphenol		1.183	1.123	5.1	73	0.00
16	T	Hexachloroethane		0.623	0.517	17.0	67	0.00
17	T	n-Nitrosodi-n-propylamine		1.057	0.919	13.1	65	0.00
18	T	3-Methylphenol/4-Methylphen		1.279	1.262	1.3	77	0.00
19	S	Nitrobenzene-d5		1.619	1.435	11.4	69	0.00
20	T	Nitrobenzene		1.643	1.421	13.5	68	0.00
21	T	Isophorone		2.760	2.435	11.8	66	0.00
22	T	2-Nitrophenol		0.692	0.681	1.6	74	0.00
23	T	2,4-Dimethylphenol		1.301	1.187	8.8	70	0.00
24	T	Bis(2-chloroethoxy)methane		1.778	1.416	20.4	62	0.00
25	T	2,4-Dichlorophenol		1.233	1.147	7.0	70	0.00
26	T	1,2,4-Trichlorobenzene		1.510	1.345	10.9	72	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	68	0.00
36	T	Naphthalene		1.147	1.000	12.8	68	0.00
37	T	Benzoic Acid	*	5.000	3.806	23.9#	54	0.00
38	T	4-Chloroaniline		0.169	0.135	20.1	58	0.00
39	T	Hexachlorobutadiene		0.303	0.292	3.6	76	0.00
40	T	p-Chloro-m-cresol		0.343	0.339	1.2	72	0.00
41	T	2-Methylnaphthalene		0.764	0.708	7.3	70	0.00
42	T	1-Methylnaphthalene		0.290	0.280	3.4	72	0.00
43	T	Hexachlorocyclopentadiene		0.336	0.343	-2.1	75	0.00
44	T	2,4,6-Trichlorophenol		0.301	0.307	-2.0	74	0.00
45	T	2,4,5-Trichlorophenol		0.322	0.320	0.6	70	0.00
46	S	2-Fluorobiphenyl		1.027	0.894	13.0	66	0.00

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Misc : wg1975455,,ical21231
ALS Vial : 142 Sample Multiplier: 1

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QLast Update : Tue Sep 24 08:21:46 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene	0.813	0.765	5.9	71	0.00
48	T	2-Nitroaniline	0.245	0.242	1.2	71	0.00
49	T	1,4-Dinitrobenzene	0.129	0.137	-6.2	76	0.00
50	T	1,3-Dinitrobenzene	0.147	0.145	1.4	69	0.00
51	T	Dimethyl phthalate	0.989	0.937	5.3	69	0.00
52	T	Acenaphthylene	1.244	1.150	7.6	67	0.00
53	T	2,6-Dinitrotoluene	0.213	0.221	-3.8	73	0.00
54	T	1,2-Dinitrobenzene	0.091	0.095	-4.4	73	0.00
63	I	IS1_Acenaphthene-d10	1.000	1.000	0.0	72	0.00
64	T	3-Nitroaniline	0.319	0.341	-6.9	77	0.00
65	T	Acenaphthene	1.153	1.006	12.7	69	0.00
66	T	2,4-Dinitrophenol	0.213	0.225	-5.6	75	0.00
67	T	Dibenzofuran	1.936	1.647	14.9	68	0.00
68	T	2,4-Dinitrotoluene	0.475	0.450	5.3	70	0.00
69	T	4-Nitrophenol	0.323	0.284	12.1	67	0.00
70	T	2,3,5,6-Tetrachlorophenol	0.452	0.464	-2.7	76	0.00
71	T	2,3,4,6-Tetrachlorophenol	0.435	0.438	-0.7	73	0.00
72	T	Diethyl phthalate	1.529	1.322	13.5	68	0.00
73	T	Fluorene	1.523	1.337	12.2	68	0.00
74	T	4-Chlorophenyl phenyl ether	0.801	0.722	9.9	74	0.00
75	T	4-Nitroaniline	0.333	0.312	6.3	72	0.00
76	T	4,6-Dinitro-o-cresol	0.266	0.305	-14.7	78	0.00
77	T	NDPA/DPA	1.263	1.158	8.3	70	0.00
78	T	Azobenzene	1.446	1.241	14.2	66	0.00
79	S	2,4,6-Tribromophenol	0.249	0.268	-7.6	79	0.00
80	T	4-Bromophenyl phenyl ether	0.500	0.480	4.0	76	0.00
81	T	Hexachlorobenzene	0.569	0.559	1.8	79	0.00
82	T	Pentachlorophenol	0.361	0.377	-4.4	73	0.00
88	I	IS1_Phenanthrene-d10	1.000	1.000	0.0	73	0.00
89	T	Phenanthrene	1.117	0.957	14.3	71	0.00
90	T	Anthracene	1.111	0.957	13.9	69	0.00
91	T	Carbazole	1.018	0.887	12.9	70	0.00
92	T	Di-n-butylphthalate	1.195	1.027	14.1	67	0.00
93	T	Fluoranthene	1.366	1.217	10.9	72	0.00
94	T	Benzidine	0.741	0.774	-4.5	77	0.00
95	T	Pyrene	1.440	1.279	11.2	72	0.00
96	S	4-Terphenyl-d14	1.076	0.997	7.3	76	0.00

Evaluate Continuing Calibration Report

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QLast Update : Tue Sep 24 08:21:46 2024
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	0.550	0.500	9.1	73	0.00
104	I	IS1_Chrysene-d12	1.000	1.000	0.0	84	0.00
105	T	Benzo(a)anthracene	1.478	1.311	11.3	84	0.00
106	T	3,3'-Dichlorobenzidine	0.489	0.528	-8.0	90	0.00
107	T	Chrysene	1.429	1.228	14.1	82	0.00
108	T	Bis(2-ethylhexyl)phthalate	0.817	0.648	20.7#	68	0.00
109	T	Di-n-octylphthalate	1.352	1.178	12.9	76	0.00
110	T	Benzo(b)fluoranthene	1.430	1.450	-1.4	98	0.00
111	T	Benzo(k)fluoranthene	1.356	1.243	8.3	82	0.00
112	T	Benzo(a)pyrene	1.242	1.256	-1.1	91	0.00
113	I	IS1_Perylene-d12	1.000	1.000	0.0	88	0.00
114	T	Indeno(1,2,3-cd)pyrene	1.082	1.092	-0.9	92	0.00
115	T	Dibenzo(a,h)anthracene	1.042	1.074	-3.1	94	0.00
116	T	Benzo(ghi)perylene	0.964	1.036	-7.5	97	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

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Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:21:46 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.287	152	24148	4.000	ug/ml		0.00
35) IS1_Naphthalene-d8	7.728	136	82755	4.000	ug/ml	#	0.00
63) IS1_Acenaphthene-d10	9.498	164	56844	4.000	ug/ml		0.00
88) IS1_Phenanthrene-d10	10.939	188	128731	4.000	ug/ml		0.00
104) IS1_Chrysene-d12	13.568	240	146328	4.000	ug/ml	#	0.00
113) IS1_Perylene-d12	15.027	264	171391	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.216	112	34953	5.008	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 250.40%#				
7) Phenol-d6	5.904	99	43542	4.557	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 227.85%#				
19) Nitrobenzene-d5	6.957	82	43309	4.432	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 443.20%#				
46) 2-Fluorobiphenyl	8.863	172	92496	4.353	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 435.30%#				
79) 2,4,6-Tribromophenol	10.269	330	19072	5.383	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 269.15%#				
96) 4-Terphenyl-d14	12.527	244	160488	4.636	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 463.60%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	1.910	74	23066	4.489	ug/ml	#	52
3) Pyridine	1.940	79	37013	4.403	ug/ml	#	30
5) Aniline	5.869	93	56253	4.549	ug/ml		91
6) 2-Chlorophenol	6.010	128	34683	4.461	ug/ml	#	87
8) Phenol	5.922	94	47493	4.792	ug/ml		91
9) Bis(2-chloroethyl)ether	6.010	93	33045	4.060	ug/ml		92
10) 1,3-Dichlorobenzene	6.204	146	41916	4.490	ug/ml		98
11) 1,4-Dichlorobenzene	6.310	146	41826	4.427	ug/ml		99
12) 1,2-Dichlorobenzene	6.487	146	40885	4.449	ug/ml		97
13) Benzyl alcohol	6.504	79	35692	4.665	ug/ml		96
14) Bis(2-chloroisopropyl)...	6.687	45	19176	1.466	ug/ml	#	1
15) 2-Methylphenol	6.675	108	33895	4.748	ug/ml		97
16) Hexachloroethane	6.881	117	15608	4.152	ug/ml	#	34
17) n-Nitrosodi-n-propylamine	6.834	70	27746	4.348	ug/ml	#	91
18) 3-Methylphenol/4-Methy...	6.869	108	38083	4.932	ug/ml		97
20) Nitrobenzene	6.975	77	42906	4.325	ug/ml		94
21) Isophorone	7.263	82	73490	4.410	ug/ml	#	92
22) 2-Nitrophenol	7.339	139	20551	4.921	ug/ml	#	86

Quantitation Report (QT Reviewed)

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ALS Vial : 142 Sample Multiplier: 1

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Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:21:46 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.445	107	35838	4.561	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.545	93	42756	3.984	ug/ml	97
25) 2,4-Dichlorophenol	7.604	162	34618	4.651	ug/ml	92
26) 1,2,4-Trichlorobenzene	7.687	180	40594	4.453	ug/ml#	96
36) Naphthalene	7.751	128	103406	4.359	ug/ml	99
37) Benzoic Acid	7.528	105	21150	3.806	ug/ml	96
38) 4-Chloroaniline	7.839	65	13925	3.981	ug/ml	83
39) Hexachlorobutadiene	7.916	225	30164	4.818	ug/ml	98
40) p-Chloro-m-cresol	8.369	107	35029	4.942	ug/ml	98
41) 2-Methylnaphthalene	8.475	142	73280	4.635	ug/ml	95
42) 1-Methylnaphthalene	8.569	115	28938M3	4.820	ug/ml	
43) Hexachlorocyclopentadiene	8.645	237	35500	5.111	ug/ml	96
44) 2,4,6-Trichlorophenol	8.769	196	31768	5.109	ug/ml	93
45) 2,4,5-Trichlorophenol	8.798	196	33088	4.970	ug/ml	100
47) 2-Chloronaphthalene	8.951	162	79184	4.710	ug/ml	95
48) 2-Nitroaniline	9.069	138	25043	4.944	ug/ml	87
49) 1,4-Dinitrobenzene	9.216	168	14133	5.302	ug/ml	80
50) 1,3-Dinitrobenzene	9.281	168	14948	4.921	ug/ml#	1
51) Dimethyl phthalate	9.281	163	96925	4.737	ug/ml#	99
52) Acenaphthylene	9.351	152	118978	4.623	ug/ml	99
53) 2,6-Dinitrotoluene	9.322	165	22816	5.179	ug/ml#	82
54) 1,2-Dinitrobenzene	9.363	168	9813	5.224	ug/ml#	1
64) 3-Nitroaniline	9.475	138	24211	5.334	ug/ml#	98
65) Acenaphthene	9.528	154	71472	4.363	ug/ml	95
66) 2,4-Dinitrophenol	9.581	184	15973	5.270	ug/ml#	87
67) Dibenzofuran	9.698	168	117005	4.253	ug/ml	96
68) 2,4-Dinitrotoluene	9.710	165	31954	4.735	ug/ml	97
69) 4-Nitrophenol	9.663	65	20154	4.385	ug/ml#	76
70) 2,3,5,6-Tetrachlorophenol	9.786	232	32934	5.125	ug/ml	98
71) 2,3,4,6-Tetrachlorophenol	9.828	232	31128	5.036	ug/ml	93
72) Diethyl phthalate	9.980	149	93930	4.321	ug/ml	96
73) Fluorene	10.033	166	95020	4.392	ug/ml	96
74) 4-Chlorophenyl phenyl ...	10.063	204	51318	4.506	ug/ml#	86
75) 4-Nitroaniline	10.063	138	22166	4.691	ug/ml#	70
76) 4,6-Dinitro-o-cresol	10.098	198	21666	5.728	ug/ml#	51
77) NDPA/DPA	10.175	169	82257	4.585	ug/ml	97
78) Azobenzene	10.210	77	88149	4.290	ug/ml	95
80) 4-Bromophenyl phenyl e...	10.533	248	34083	4.797	ug/ml#	83
81) Hexachlorobenzene	10.563	284	39711	4.913	ug/ml#	78
82) Pentachlorophenol	10.763	266	26819	5.225	ug/ml	98
89) Phenanthrene	10.957	178	153979	4.283	ug/ml	99

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Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90)	Anthracene	11.010	178	153941	4.307	ug/ml	99
91)	Carbazole	11.180	167	142796	4.360	ug/ml	98
92)	Di-n-butylphthalate	11.586	149	165274	4.296	ug/ml	99
93)	Fluoranthene	12.116	202	195801	4.455	ug/ml#	89
94)	Benzidine	12.274	184	124598	5.221	ug/ml#	94
95)	Pyrene	12.327	202	205878	4.443	ug/ml	99
97)	Butyl benzyl phthalate	13.063	149	80532	4.548	ug/ml	92
105)	Benzo(a)anthracene	13.557	228	239737	4.434	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.563	252	96497	5.394	ug/ml#	95
107)	Chrysene	13.592	228	224643	4.298	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.710	149	118590	3.967	ug/ml#	94
109)	Di-n-octylphthalate	14.392	149	215387	4.353	ug/ml#	66
110)	Benzo(b)fluoranthene	14.657	252	265219	5.069	ug/ml#	90
111)	Benzo(k)fluoranthene	14.686	252	227398	4.584	ug/ml#	90
112)	Benzo(a)pyrene	14.968	252	229727	5.058	ug/ml#	89
114)	Indeno(1,2,3-cd)pyrene	15.986	276	234049M6	5.048	ug/mL	
115)	Dibenzo(a,h)anthracene	16.015	278	230164	5.157	ug/ml#	84
116)	Benzo(ghi)perylene	16.221	276	221877	5.371	ug/ml#	79

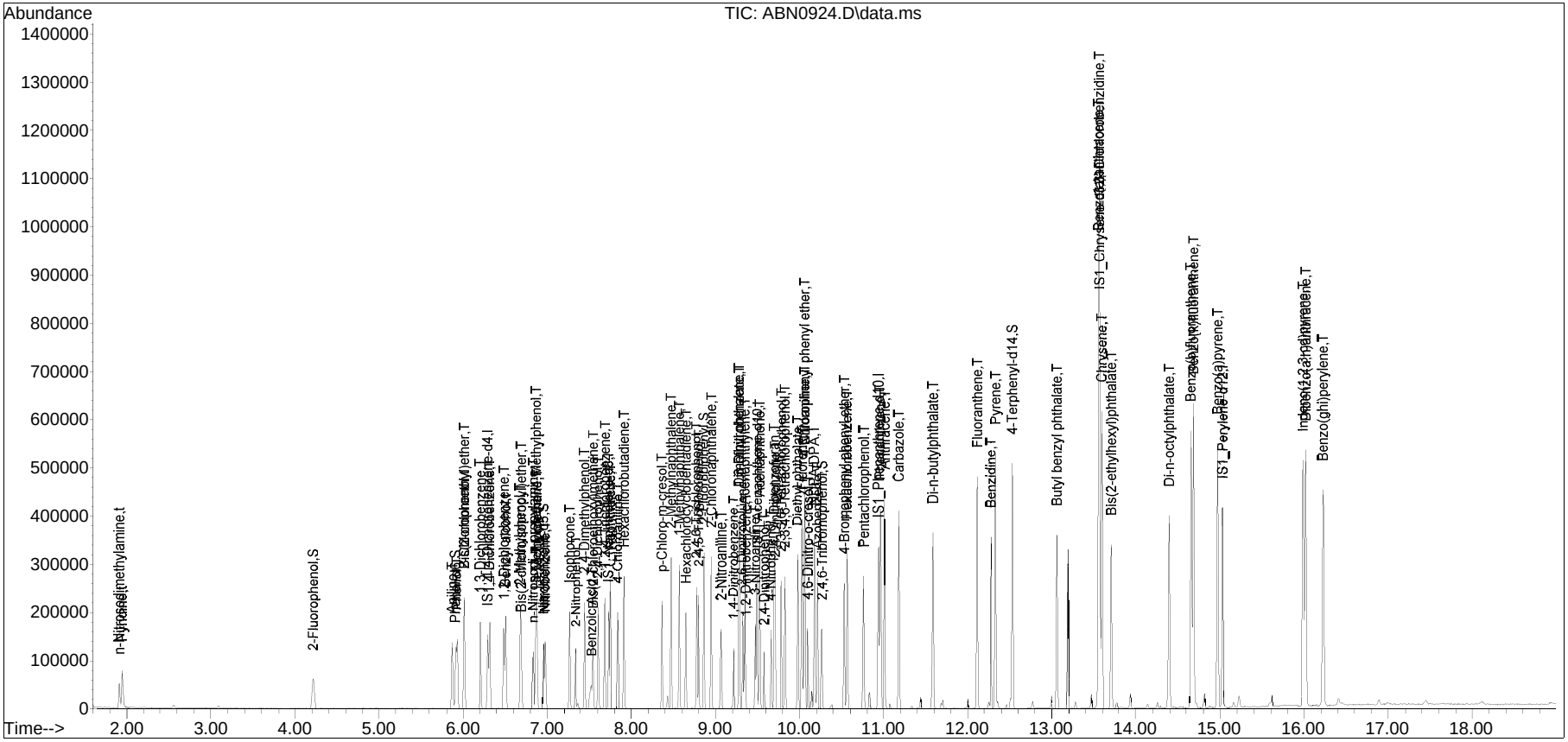
(#) = qualifier out of range (m) = manual integration (+) = signals summed

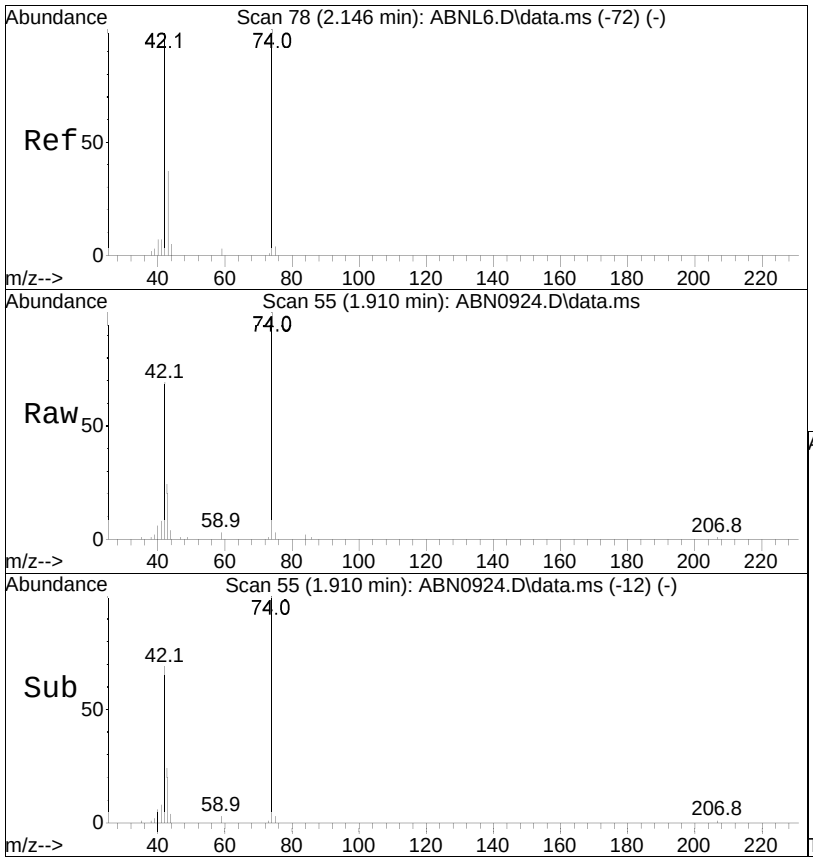
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 7:21 am
Operator : SV106:smz
Sample : wg1975455-3,32,,ABN 10908 HNY0826A
Misc : wg1975455,,ical21231
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 08:20:48 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:21:46 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

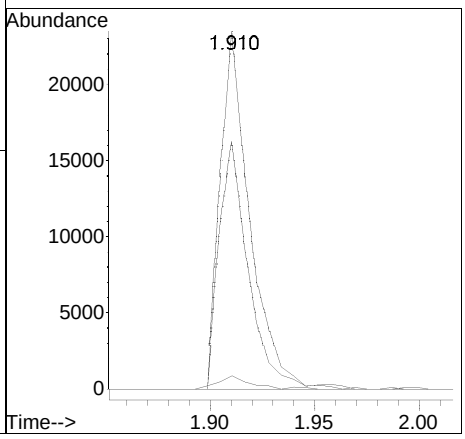


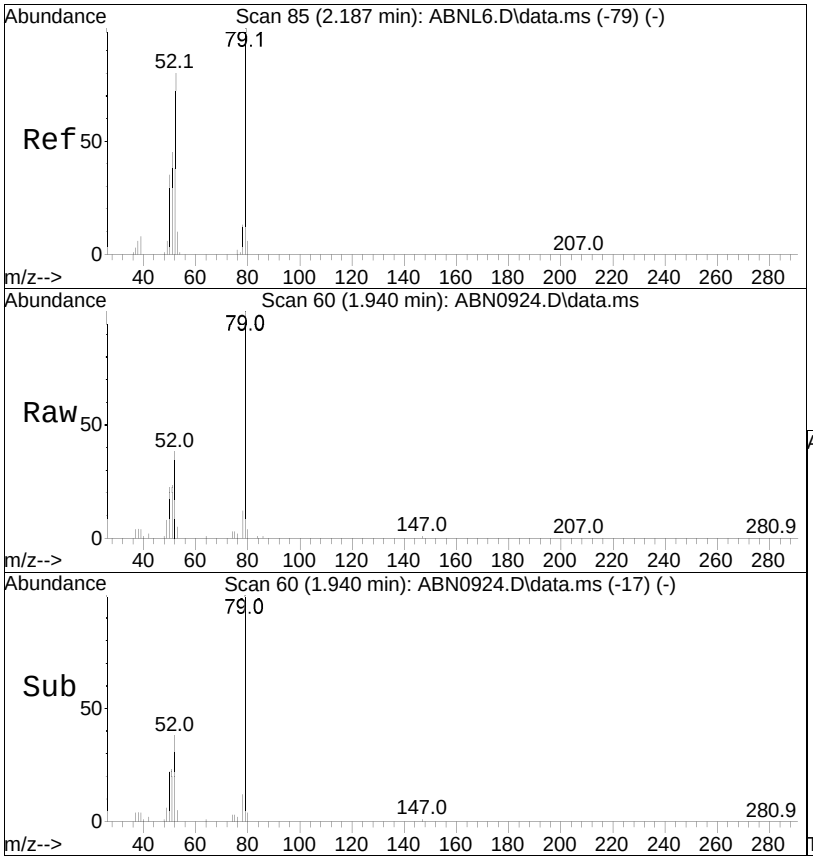


#2
n-Nitrosodimethylamine
Concen: 4.49 ug/ml
RT: 1.910 min Scan# 55
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 74 Resp: 23066

Ion	Ratio	Lower	Upper
74	100		
42	68.2	100.0	150.0#
44	4.2	6.7	10.1#

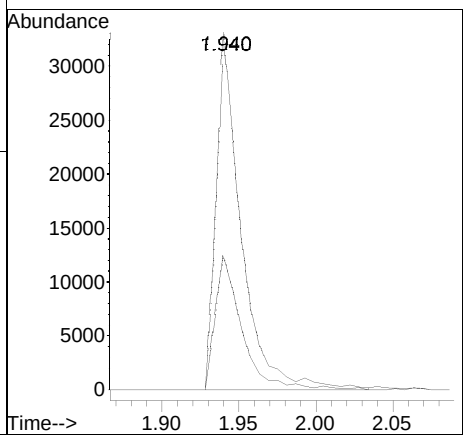


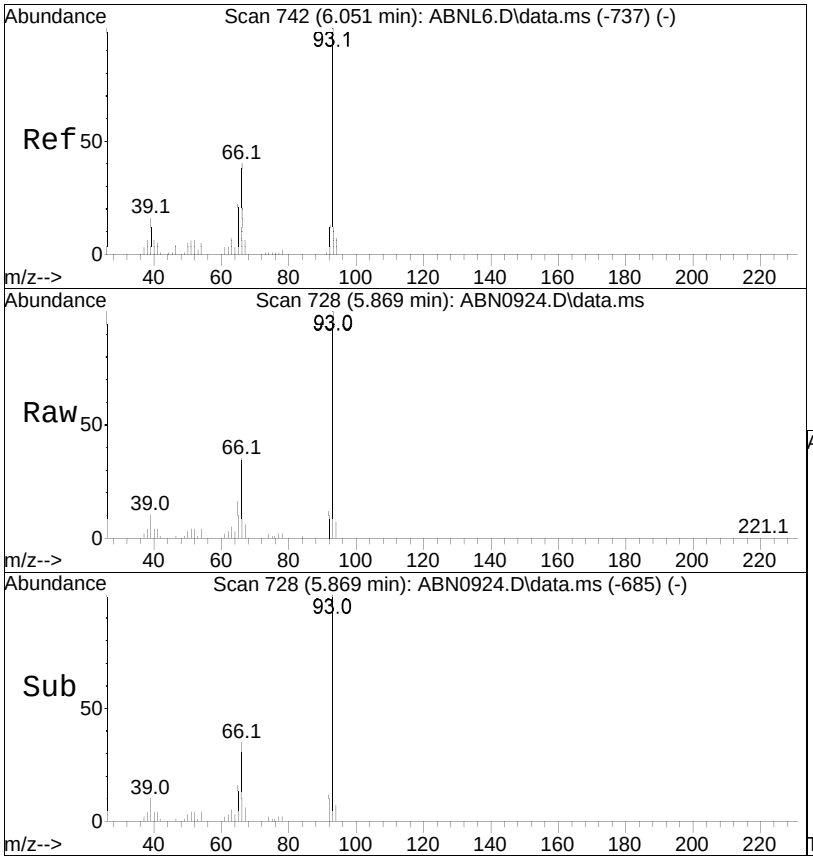


#3
Pyridine
Concen: 4.40 ug/ml
RT: 1.940 min Scan# 60
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 79 Resp: 37013

Ion	Ratio	Lower	Upper
79	100		
52	39.6	93.1	139.7#

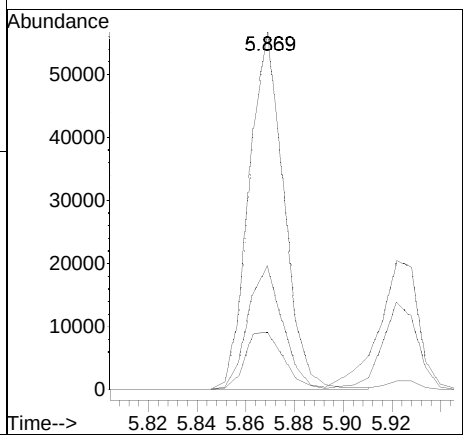


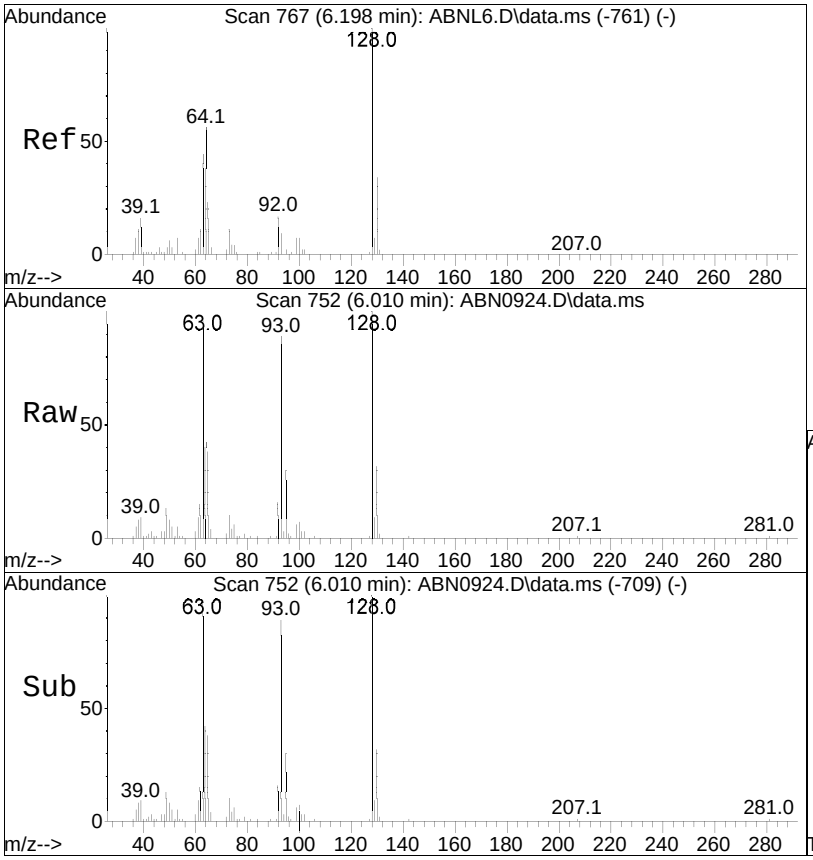


#5
Aniline
Concen: 4.55 ug/ml
RT: 5.869 min Scan# 728
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 93 Resp: 56253

Ion	Ratio	Lower	Upper
93	100		
66	34.8	32.6	49.0
65	17.7	17.6	26.4

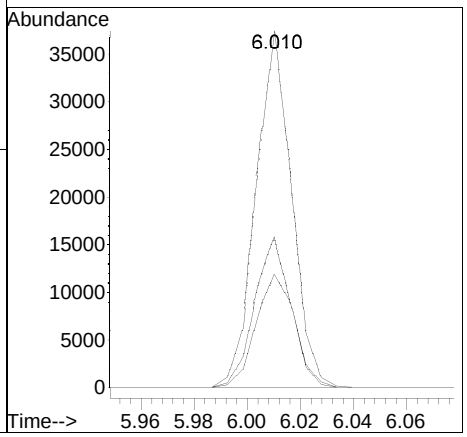


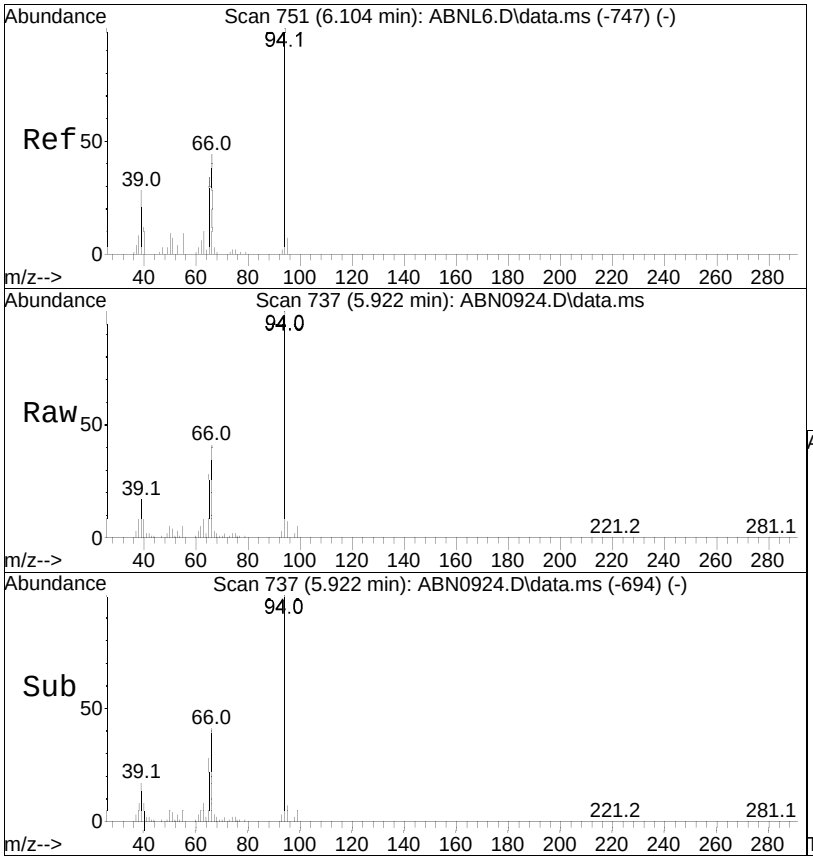


#6
2-Chlorophenol
Concen: 4.46 ug/ml
RT: 6.010 min Scan# 752
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:128 Resp: 34683

Ion	Ratio	Lower	Upper
128	100		
64	42.9	45.1	67.7#
130	34.7	26.2	39.4

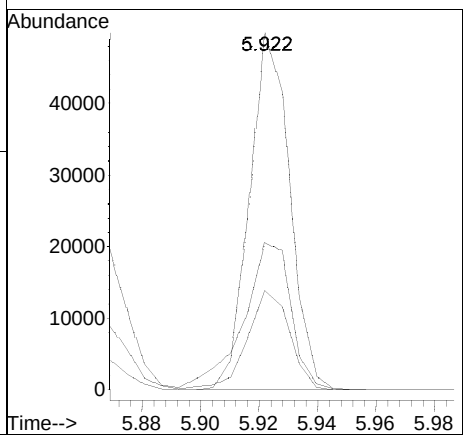


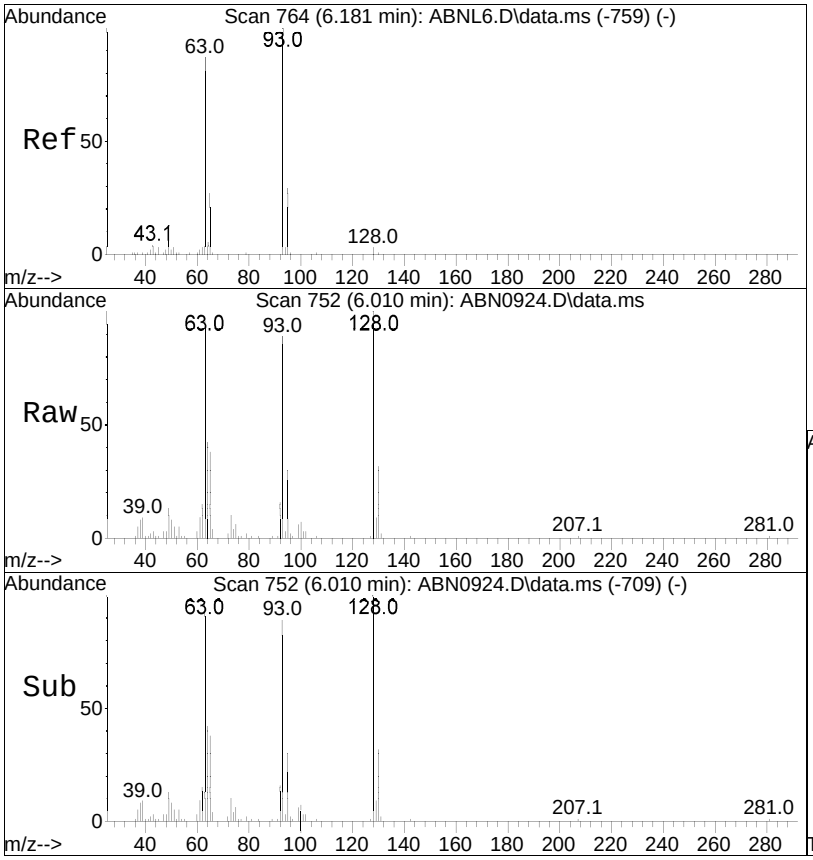


#8
Phenol
Concen: 4.79 ug/ml
RT: 5.922 min Scan# 737
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 94 Resp: 47493

Ion	Ratio	Lower	Upper
94	100		
65	29.4	26.0	39.0
66	49.3	33.8	50.8

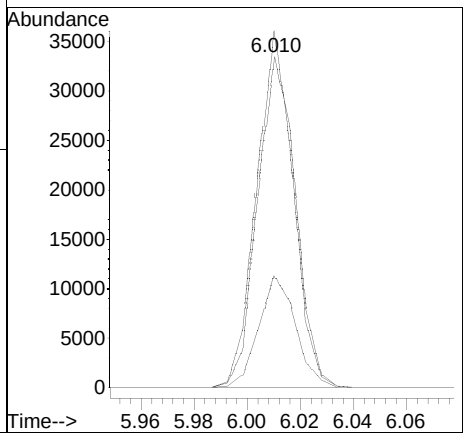


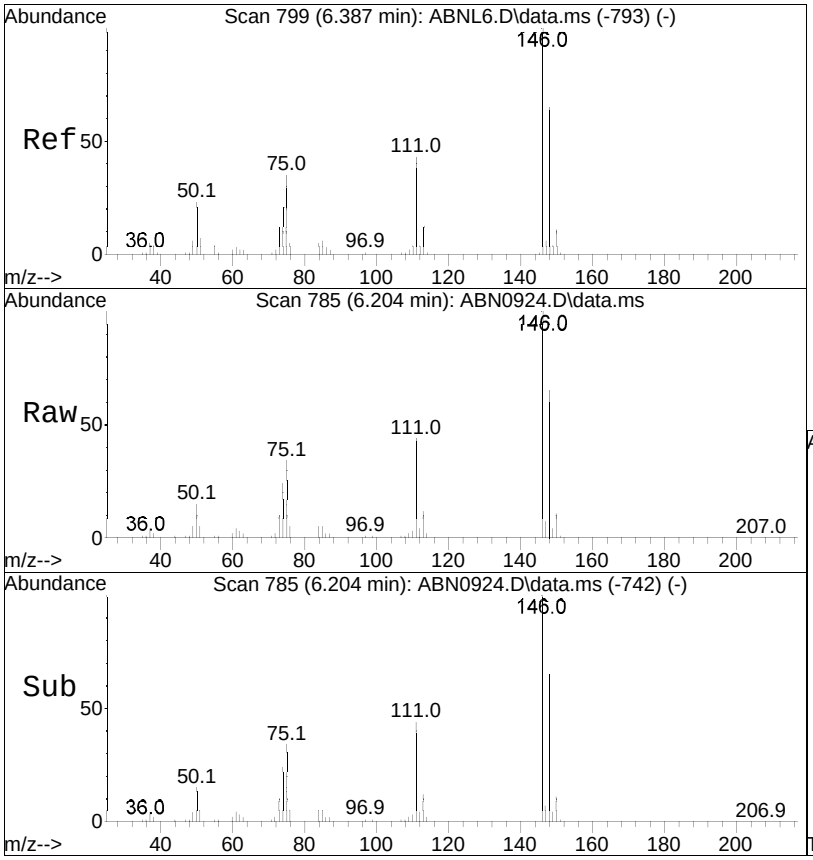


#9
Bis(2-chloroethyl)ether
Concen: 4.06 ug/ml
RT: 6.010 min Scan# 752
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 93 Resp: 33045

Ion	Ratio	Lower	Upper
93	100		
63	103.6	74.6	111.8
95	32.9	25.9	38.9

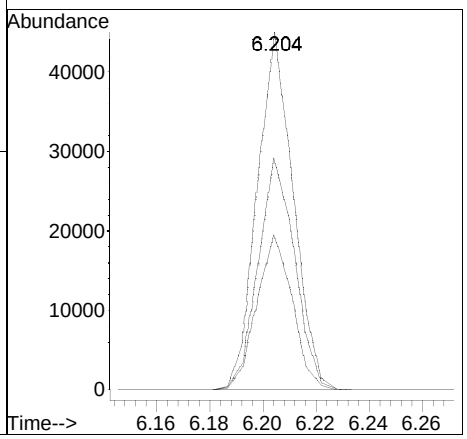


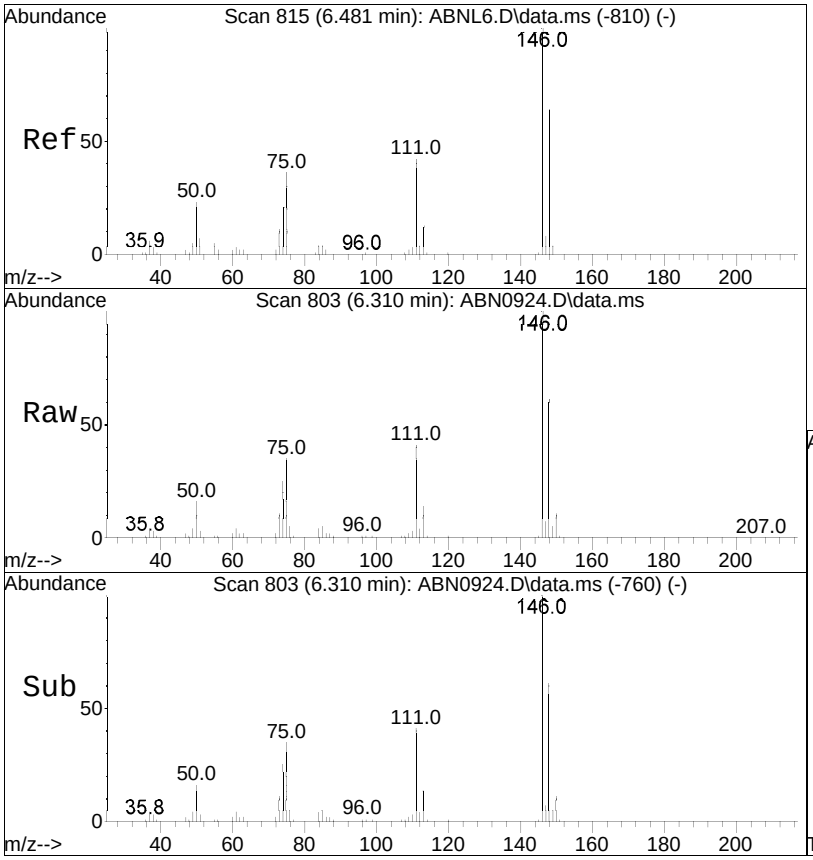


#10
1,3-Dichlorobenzene
Concen: 4.49 ug/ml
RT: 6.204 min Scan# 785
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:146 Resp: 41916

Ion	Ratio	Lower	Upper
146	100		
111	43.1	34.3	51.5
148	65.8	50.8	76.2

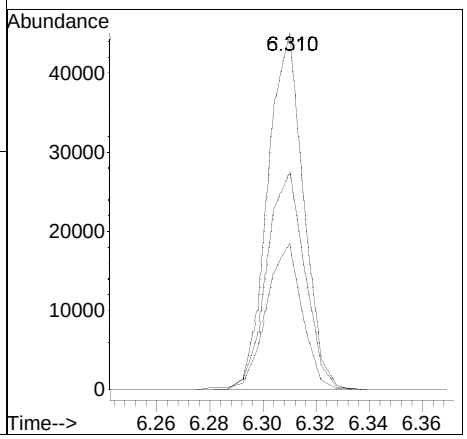


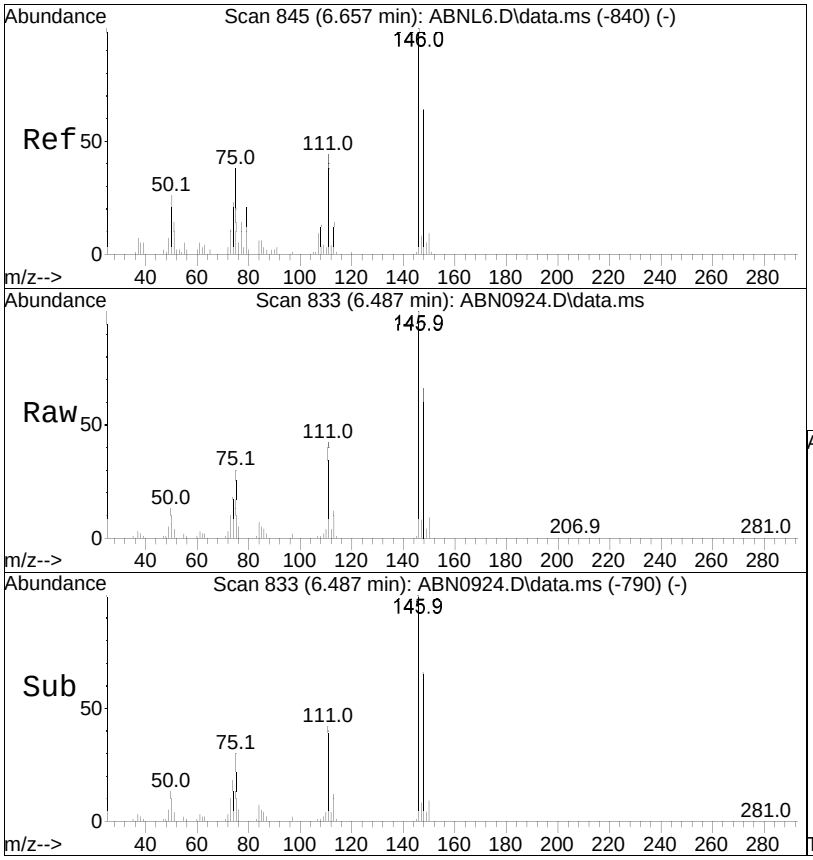


#11
1,4-Dichlorobenzene
Concen: 4.43 ug/ml
RT: 6.310 min Scan# 803
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:146 Resp: 41826

Ion	Ratio	Lower	Upper
146	100		
148	65.0	50.7	76.1
111	41.7	33.4	50.0

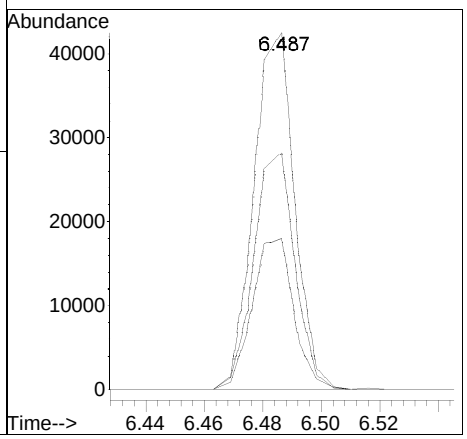


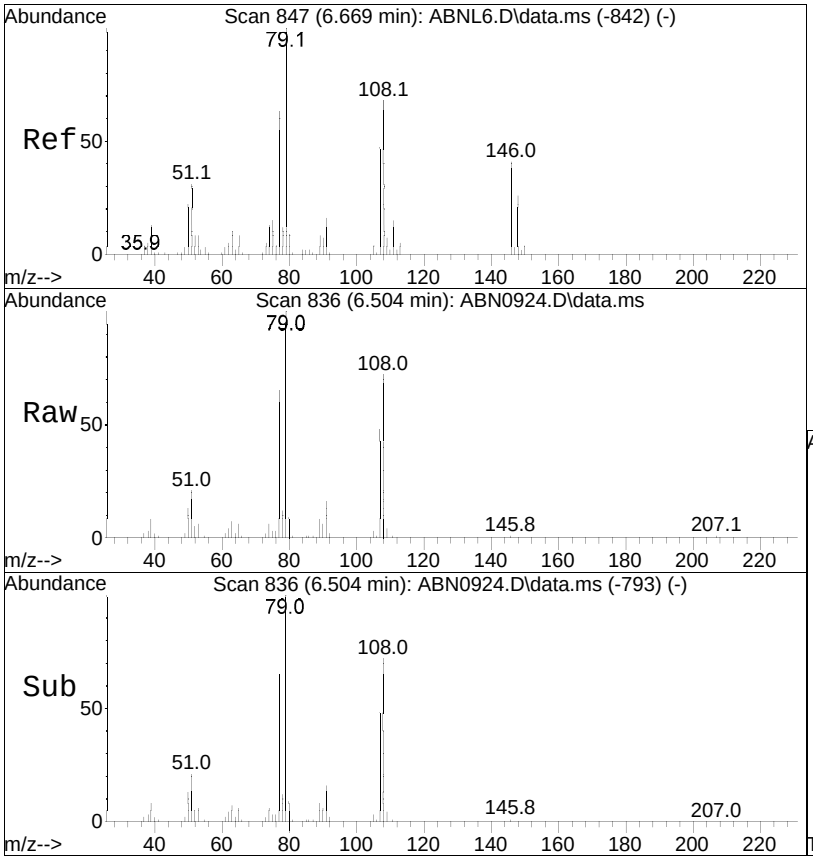


#12
1,2-Dichlorobenzene
Concen: 4.45 ug/ml
RT: 6.487 min Scan# 833
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:146 Resp: 40885

Ion	Ratio	Lower	Upper
146	100		
111	43.2	34.6	52.0
148	67.0	50.2	75.4

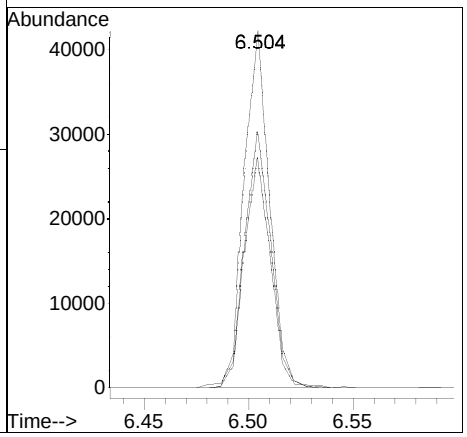


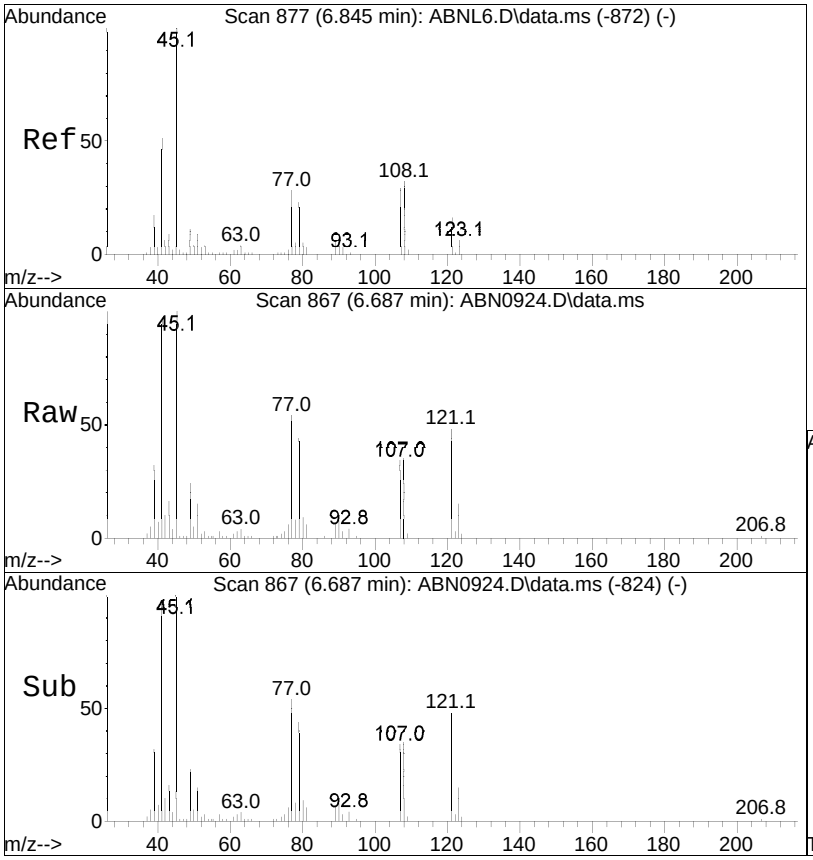


#13
Benzyl alcohol
Concen: 4.66 ug/ml
RT: 6.504 min Scan# 836
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 79 Resp: 35692

Ion	Ratio	Lower	Upper
79	100		
77	66.3	54.9	82.3
108	74.5	63.1	94.7

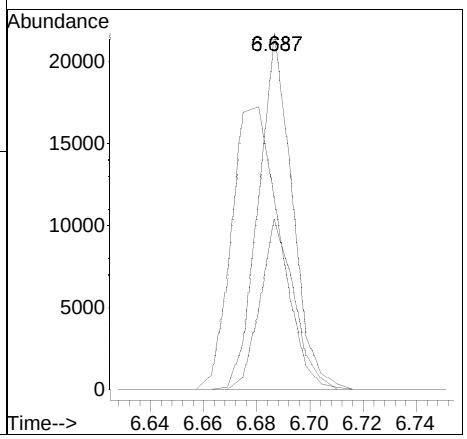


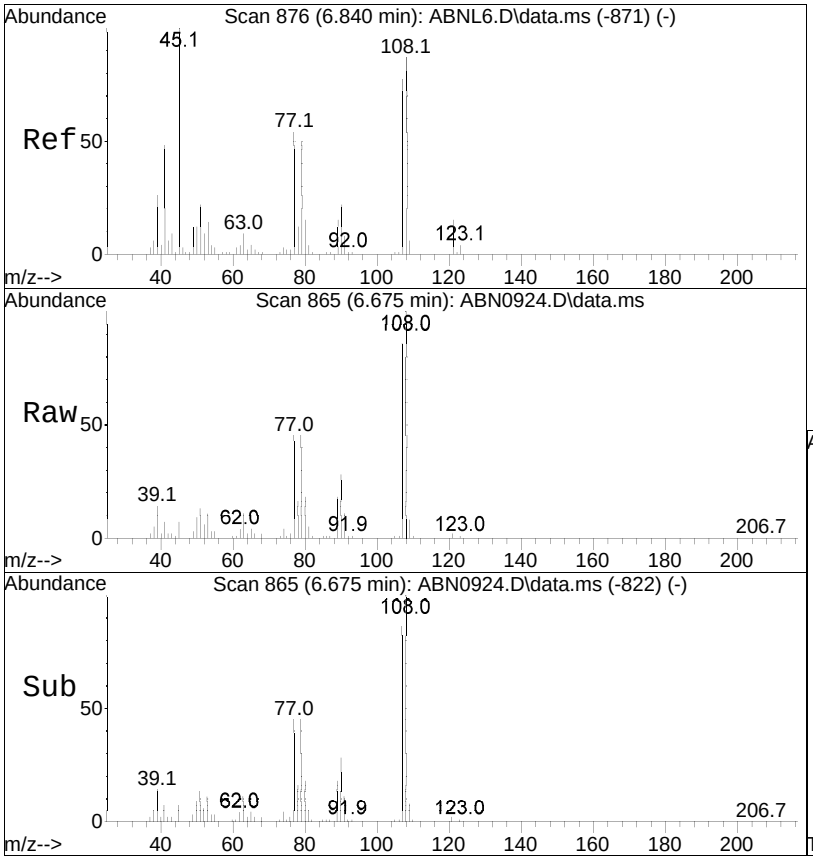


#14
Bis(2-chloroisopropyl)ether
Concen: 1.47 ug/ml
RT: 6.687 min Scan# 867
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 45 Resp: 19176

Ion	Ratio	Lower	Upper
45	100		
121	47.8	9.8	14.6#
77	112.2	6.1	9.1#

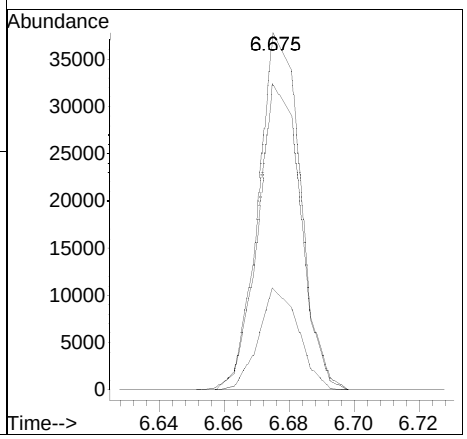


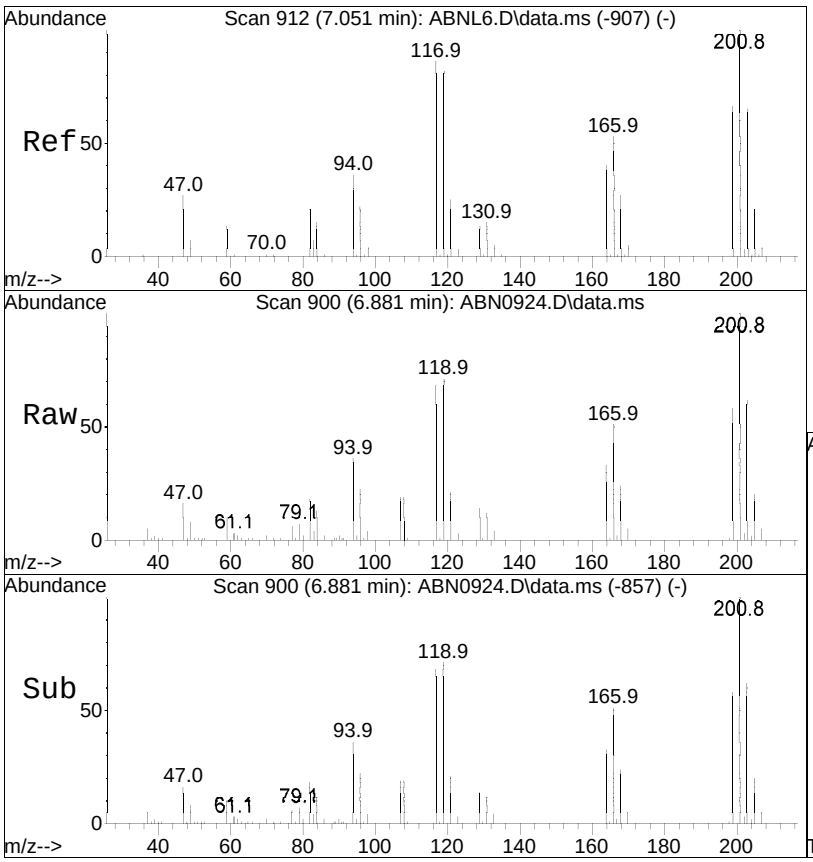


#15
2-Methylphenol
Concen: 4.75 ug/ml
RT: 6.675 min Scan# 865
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:108 Resp: 33895

Ion	Ratio	Lower	Upper
108	100		
107	87.3	70.7	106.1
90	27.2	18.7	28.1

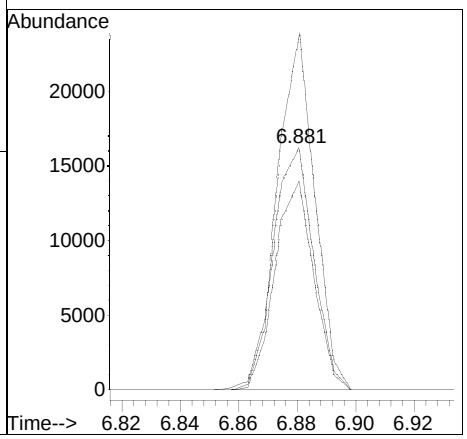


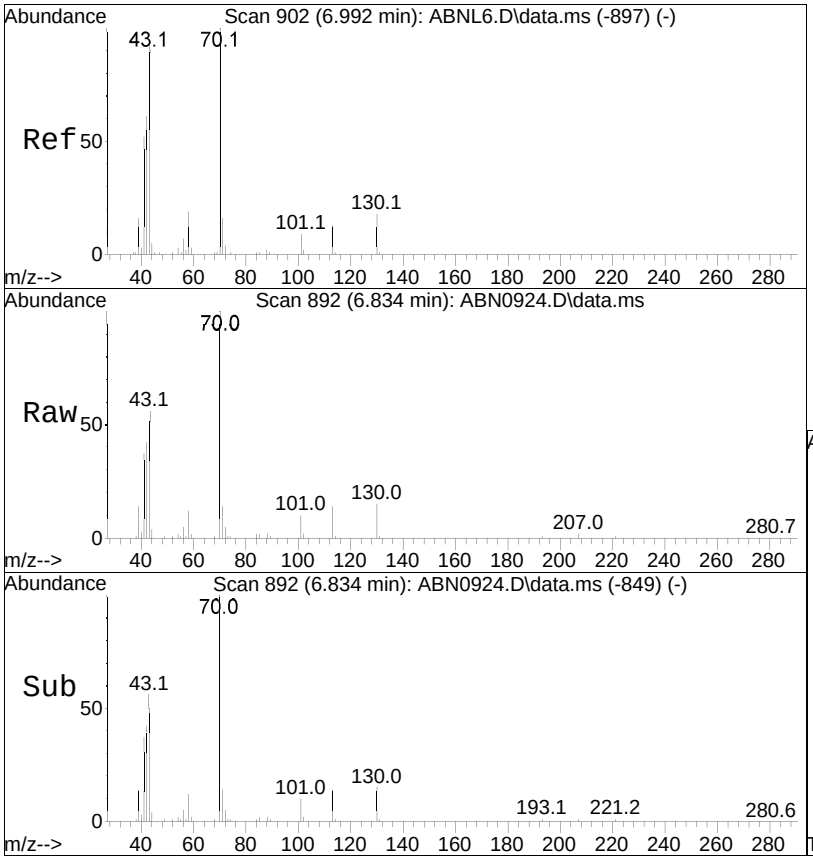


#16
Hexachloroethane
Concen: 4.15 ug/ml
RT: 6.881 min Scan# 900
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:117 Resp: 15608

Ion	Ratio	Lower	Upper
117	100		
201	134.6	58.6	87.8#
199	82.3	36.9	55.3#

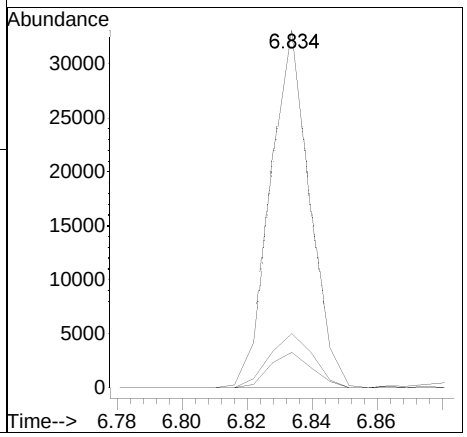


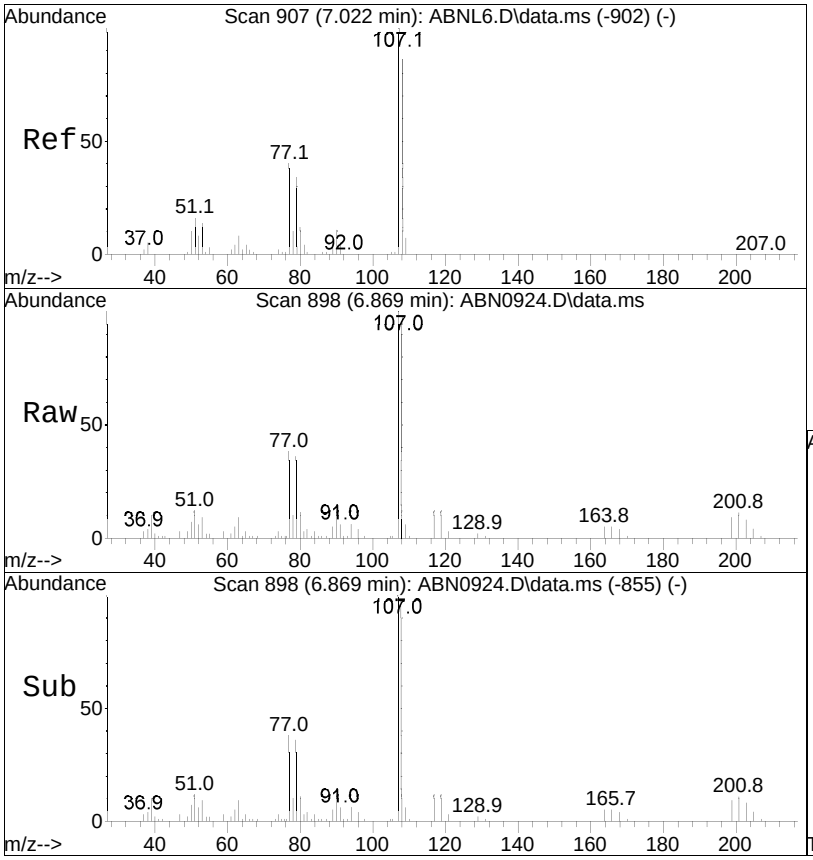


#17
n-Nitrosodi-n-propylamine
Concen: 4.35 ug/ml
RT: 6.834 min Scan# 892
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 70 Resp: 27746

Ion	Ratio	Lower	Upper
70	100		
130	16.6	18.2	27.4#
101	10.5	7.8	11.8

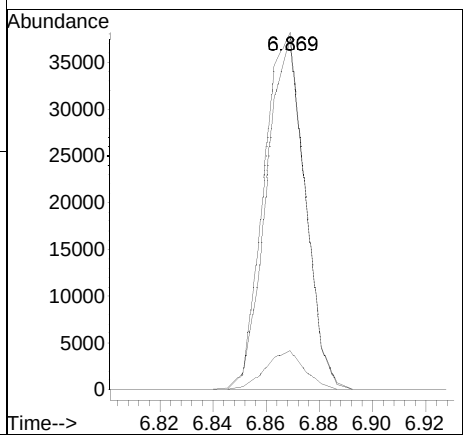


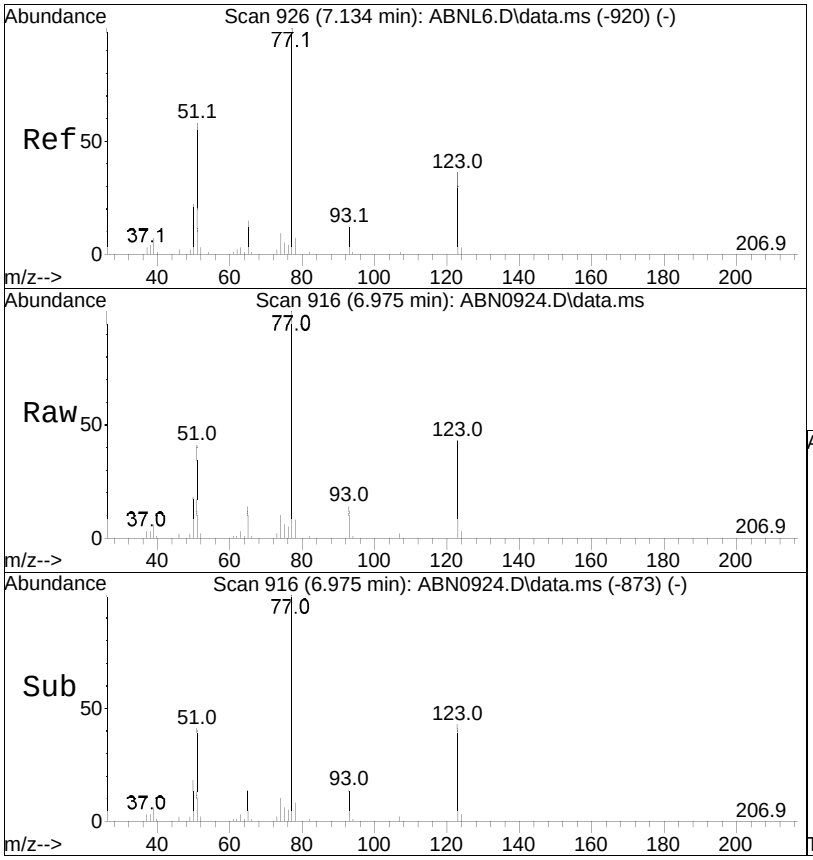


#18
3-Methylphenol/4-Methylphenol
Concen: 4.93 ug/ml
RT: 6.869 min Scan# 898
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:108 Resp: 38083

Ion	Ratio	Lower	Upper
108	100		
107	107.6	88.6	132.8
90	11.1	8.8	13.2

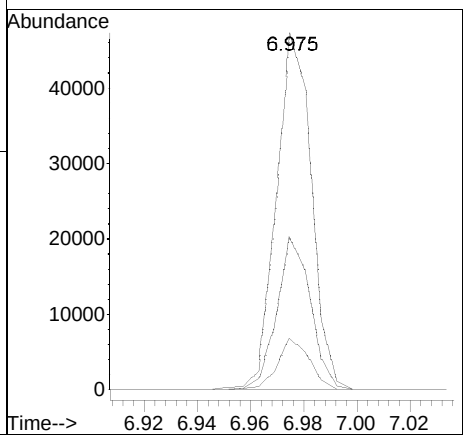


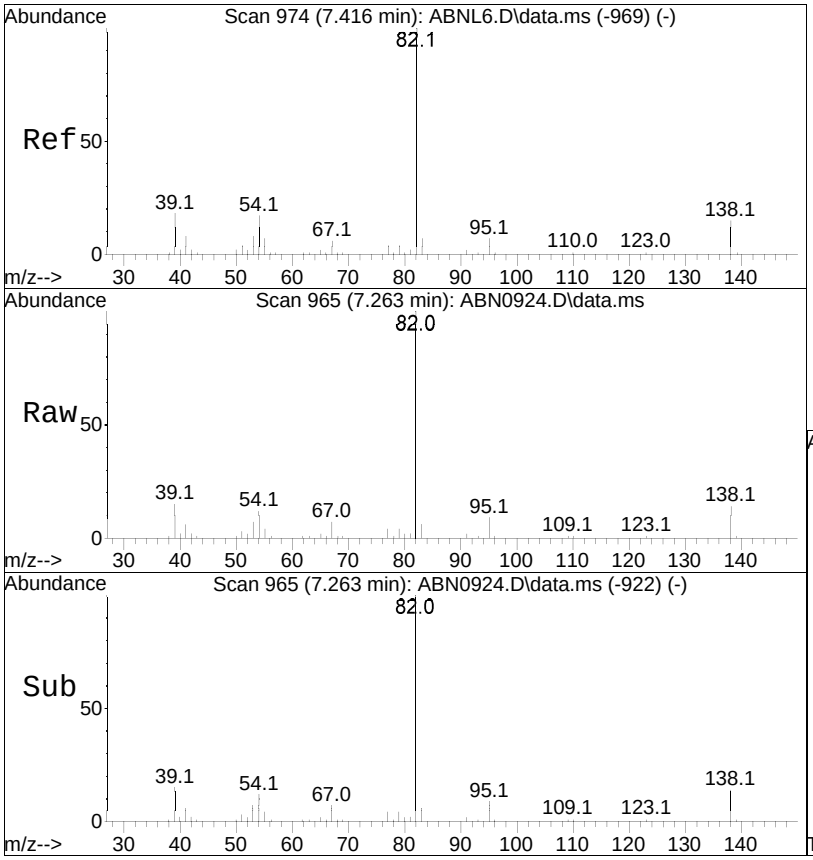


#20
Nitrobenzene
Concen: 4.33 ug/ml
RT: 6.975 min Scan# 916
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 77 Resp: 42906

Ion	Ratio	Lower	Upper
77	100		
123	41.3	36.3	54.5
65	13.2	11.6	17.4

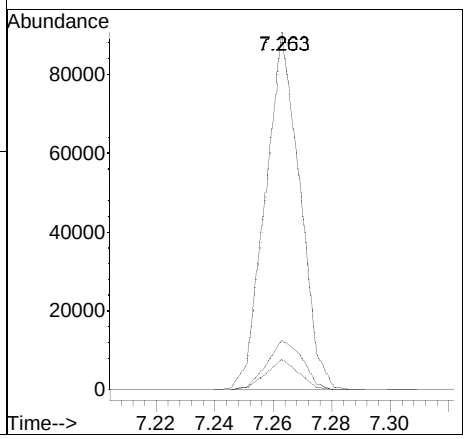


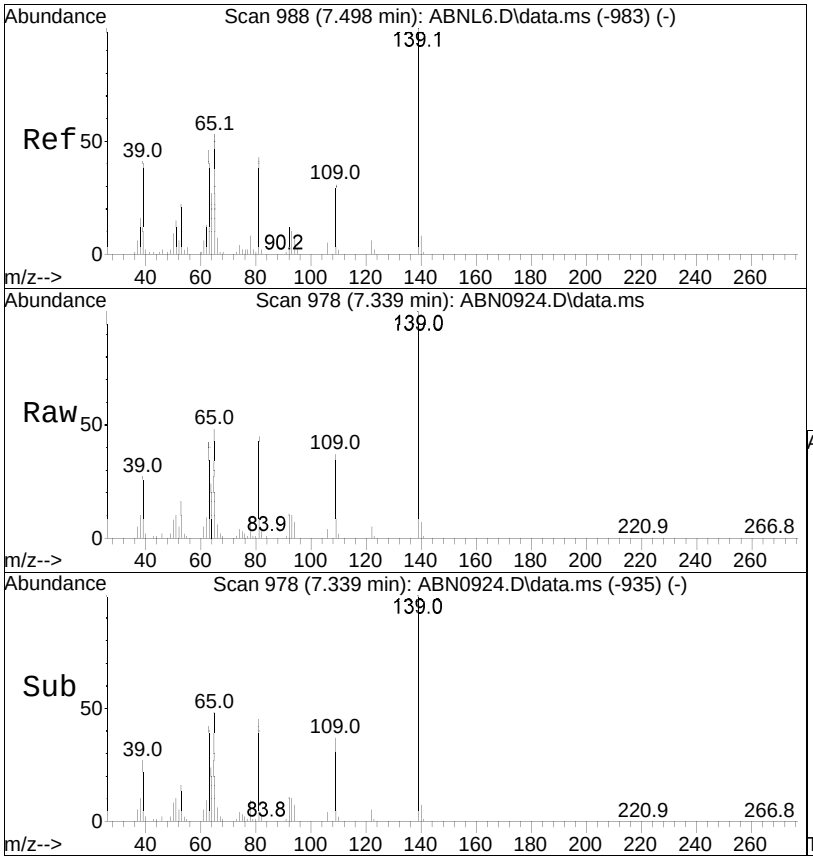


#21
Isophorone
Concen: 4.41 ug/ml
RT: 7.263 min Scan# 965
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 82 Resp: 73490

Ion	Ratio	Lower	Upper
82	100		
138	14.5	14.7	22.1#
95	8.3	5.2	7.8#

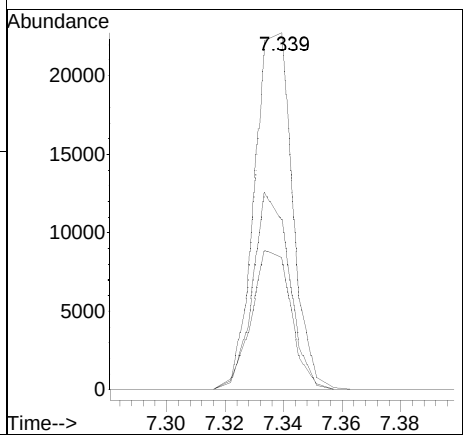


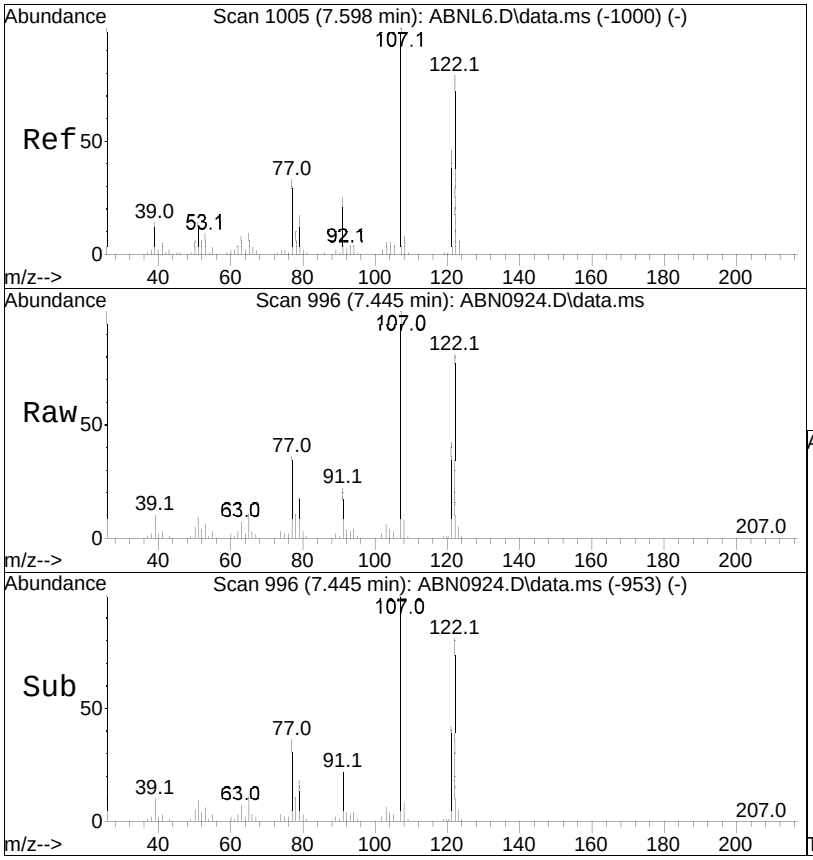


#22
2-Nitrophenol
Concen: 4.92 ug/ml
RT: 7.339 min Scan# 978
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:139 Resp: 20551

Ion	Ratio	Lower	Upper
139	100		
109	40.9	19.4	29.0#
65	52.9	46.1	69.1

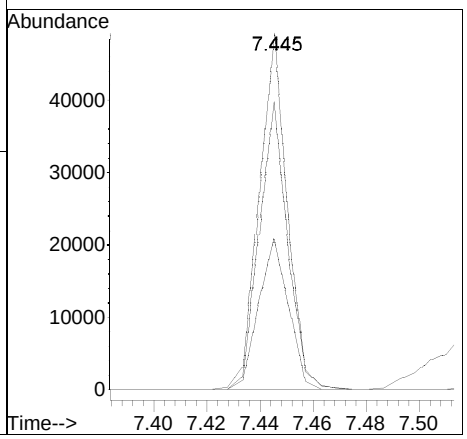


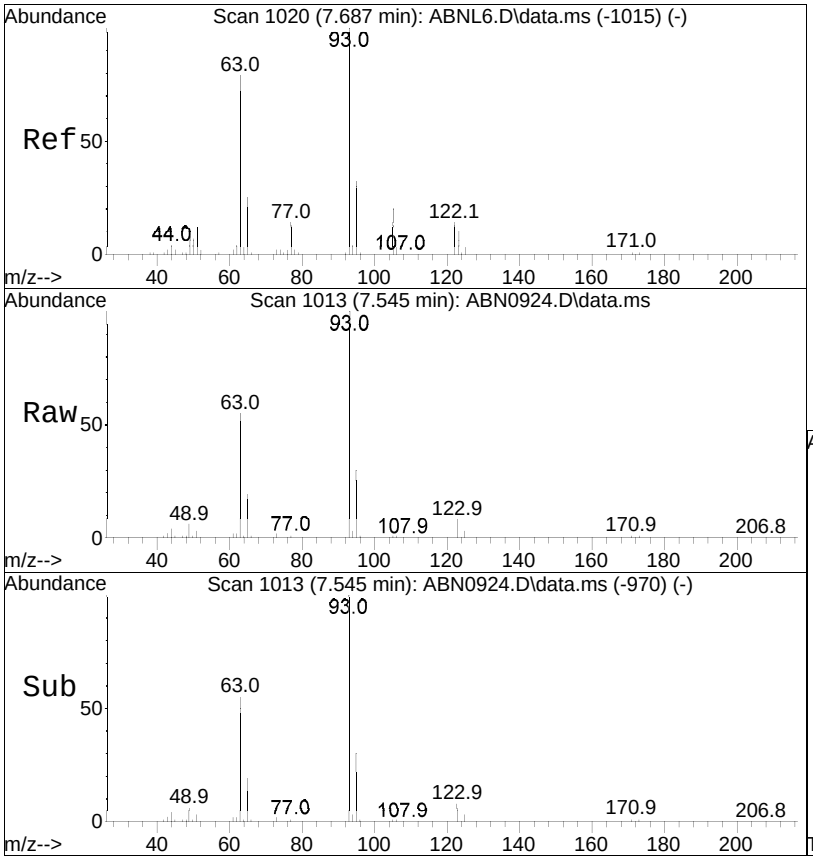


#23
2,4-Dimethylphenol
Concen: 4.56 ug/ml
RT: 7.445 min Scan# 996
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:107 Resp: 35838

Ion	Ratio	Lower	Upper
107	100		
121	45.1	40.0	60.0
122	81.5	70.2	105.4

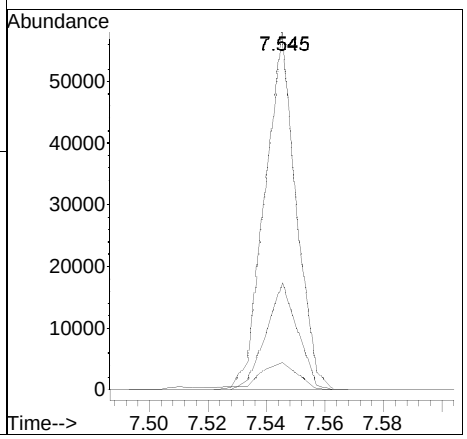


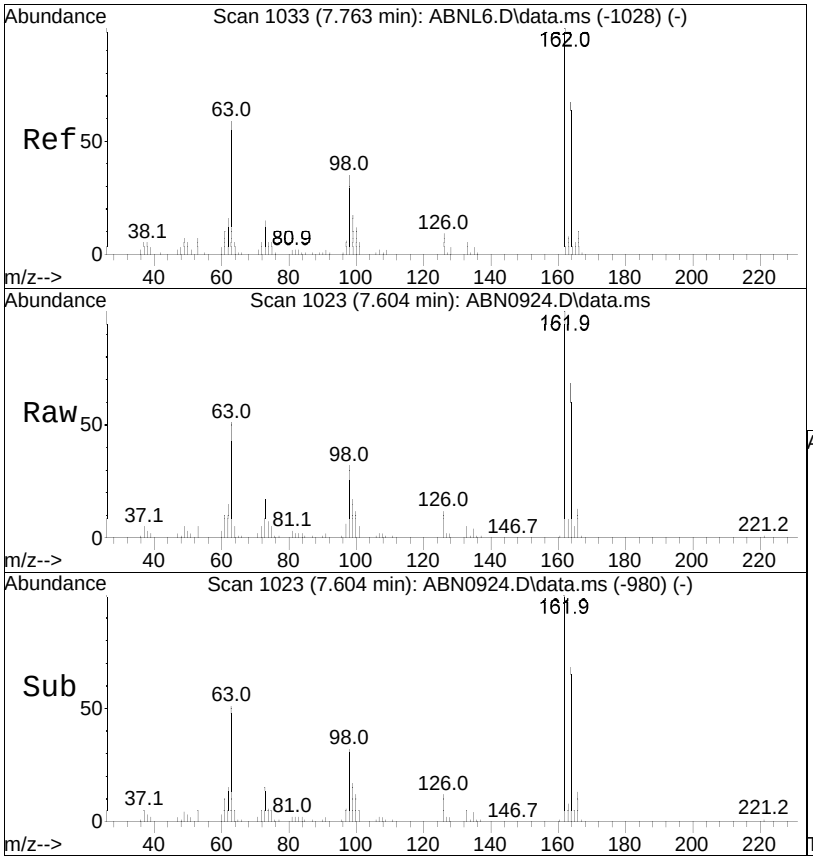


#24
Bis(2-chloroethoxy)methane
Concen: 3.98 ug/ml
RT: 7.545 min Scan# 1013
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 93 Resp: 42756

Ion	Ratio	Lower	Upper
93	100		
95	30.7	25.8	38.8
123	11.3	10.1	15.1

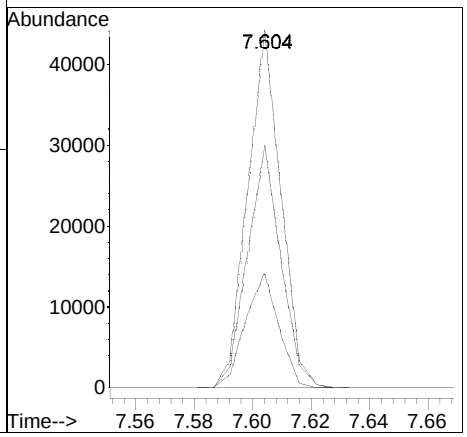


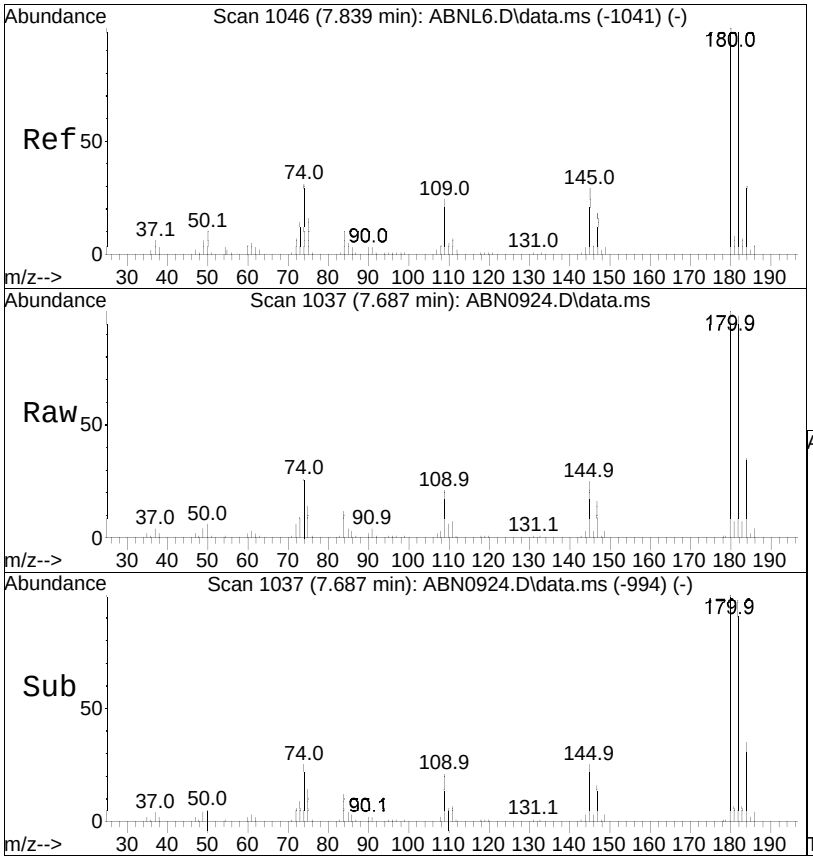


#25
2,4-Dichlorophenol
Concen: 4.65 ug/ml
RT: 7.604 min Scan# 1023
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:162 Resp: 34618

Ion	Ratio	Lower	Upper
162	100		
164	68.1	51.0	76.4
98	32.6	32.2	48.2

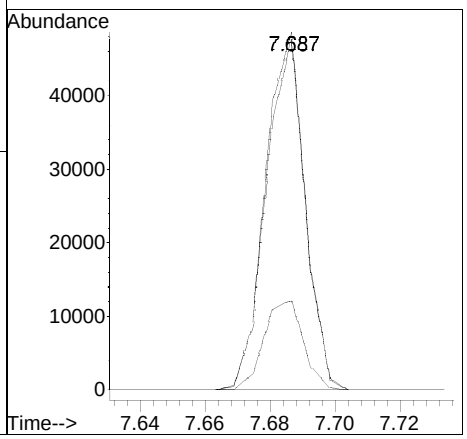


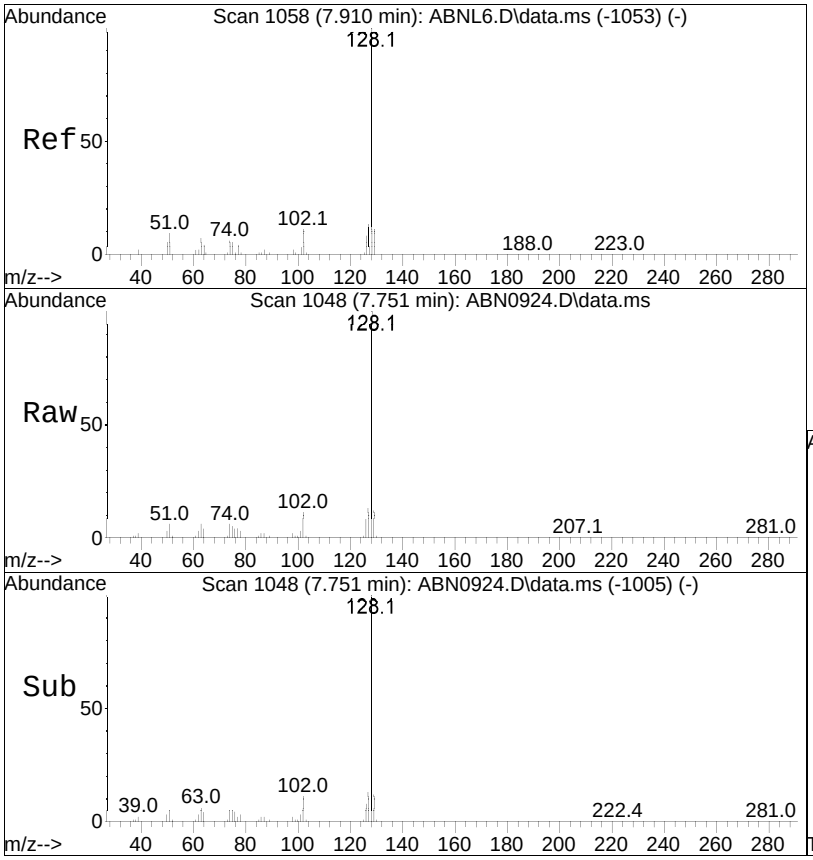


#26
1,2,4-Trichlorobenzene
Concen: 4.45 ug/ml
RT: 7.687 min Scan# 1037
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:180 Resp: 40594

Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.0	114.0
145	25.1	25.7	38.5#

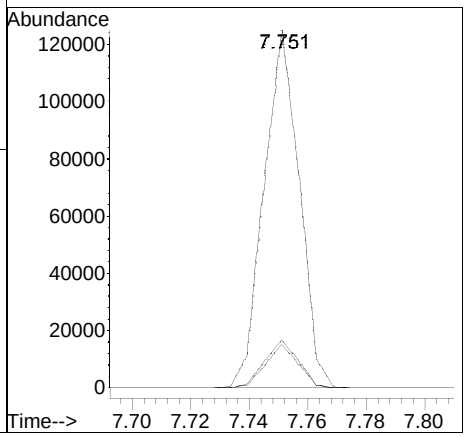


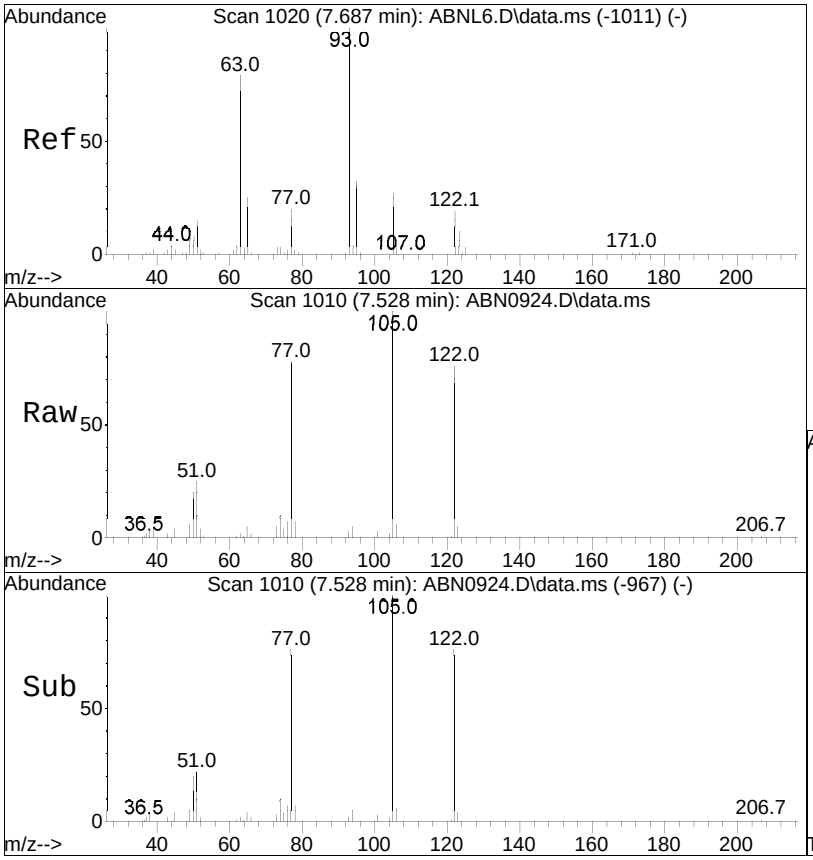


#36
Naphthalene
Concen: 4.36 ug/ml
RT: 7.751 min Scan# 1048
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:128 Resp: 103406

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.7	13.1
127	13.0	10.3	15.5

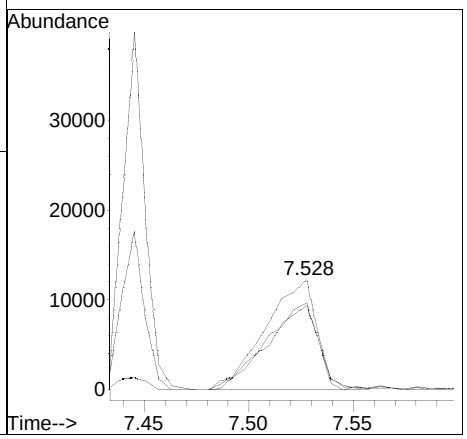


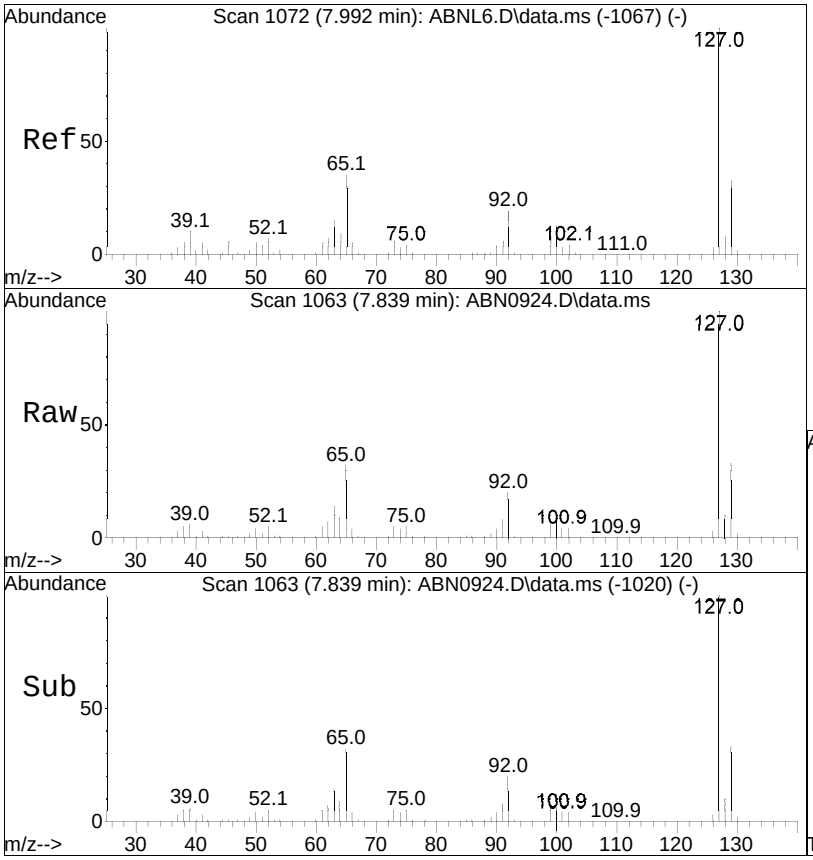


#37
Benzoic Acid
Concen: 3.81 ug/ml
RT: 7.528 min Scan# 1010
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:105 Resp: 21150

Ion	Ratio	Lower	Upper
105	100		
122	74.5	59.9	89.9
77	80.8	60.1	90.1

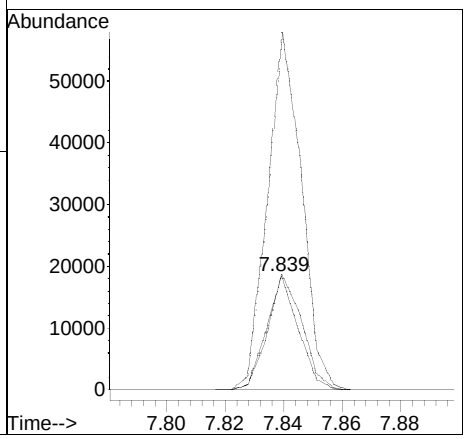


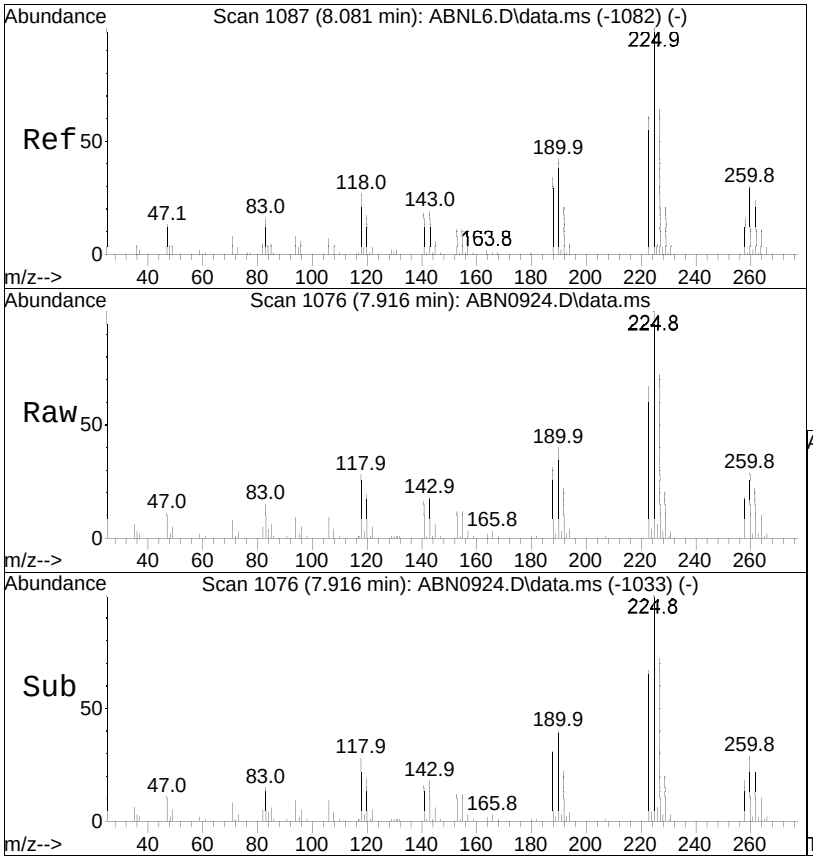


#38
4-Chloroaniline
Concen: 3.98 ug/ml
RT: 7.839 min Scan# 1063
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 65 Resp: 13925

Ion	Ratio	Lower	Upper
65	100		
127	331.4	237.6	356.4
129	108.4	76.3	114.5

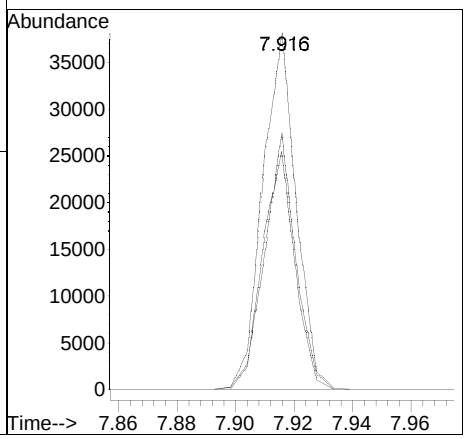


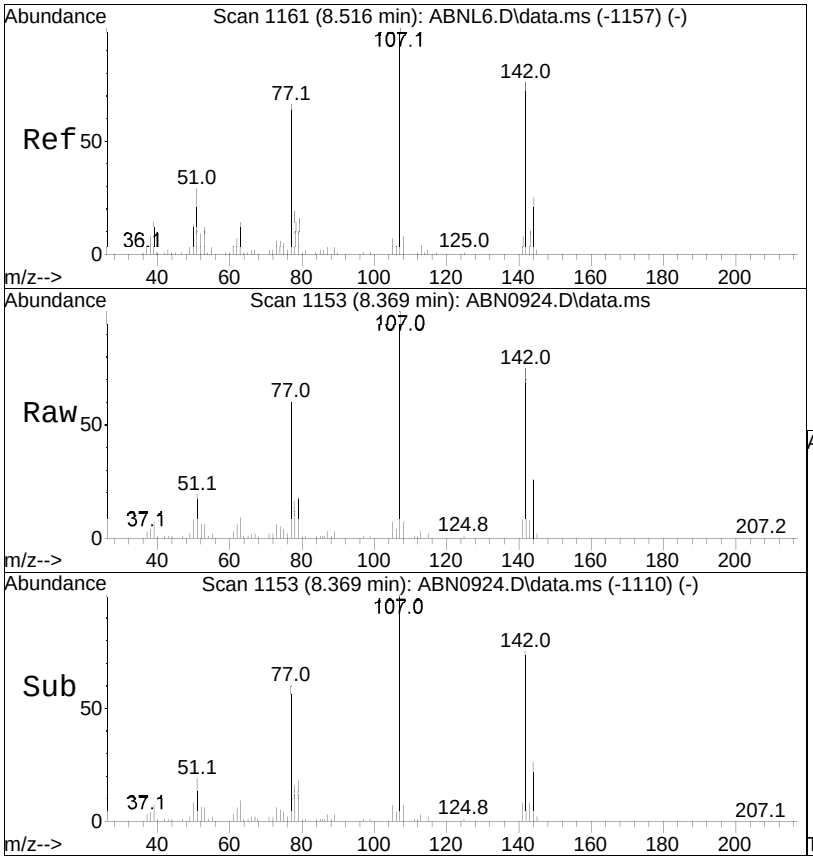


#39
Hexachlorobutadiene
Concen: 4.82 ug/ml
RT: 7.916 min Scan# 1076
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:225 Resp: 30164

Ion	Ratio	Lower	Upper
225	100		
223	64.5	50.3	75.5
227	67.0	52.2	78.2

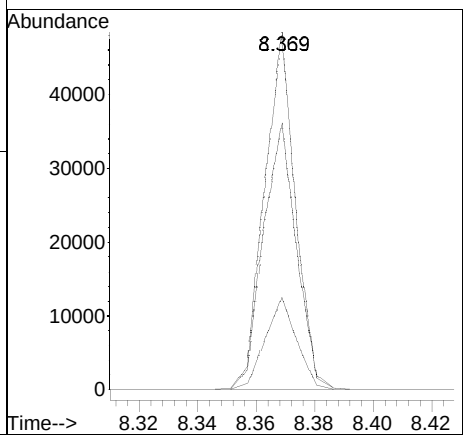


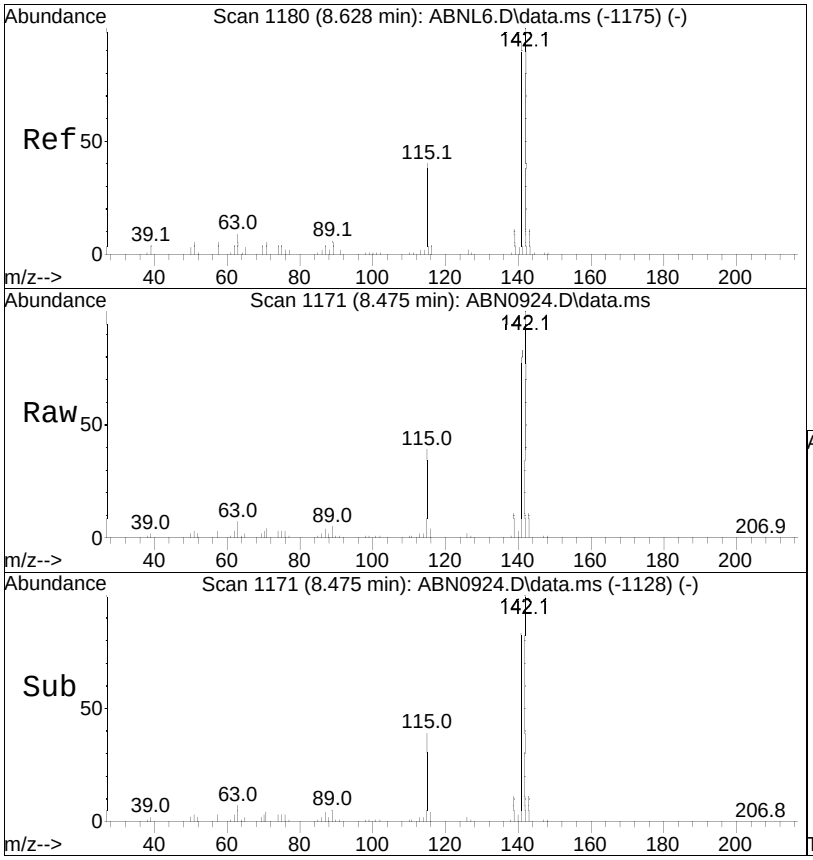


#40
p-Chloro-m-cresol
Concen: 4.94 ug/ml
RT: 8.369 min Scan# 1153
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:107 Resp: 35029

Ion	Ratio	Lower	Upper
107	100		
144	26.5	20.9	31.3
142	80.2	66.1	99.1

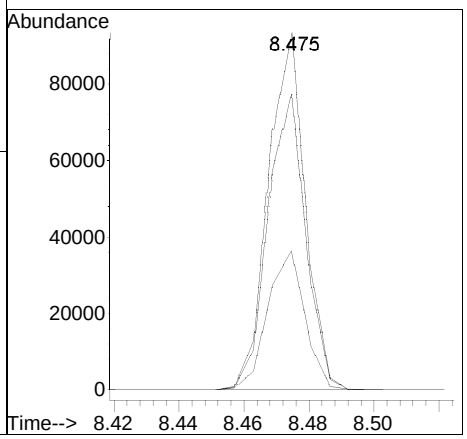


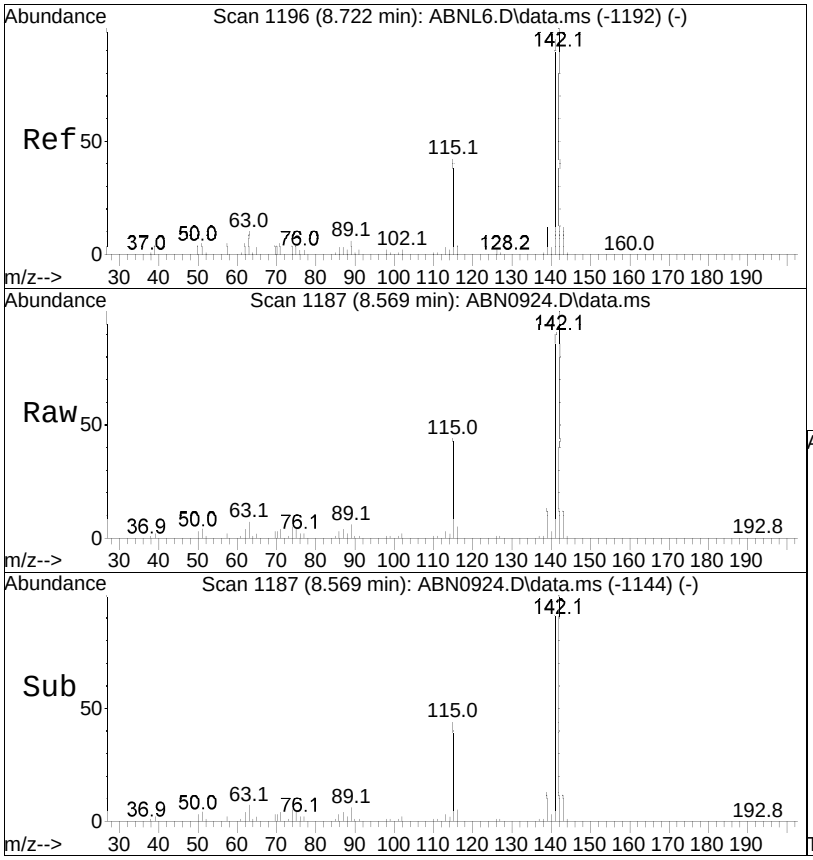


#41
2-Methylnaphthalene
Concen: 4.63 ug/ml
RT: 8.475 min Scan# 1171
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:142 Resp: 73280

Ion	Ratio	Lower	Upper
142	100		
141	84.6	69.6	104.4
115	39.5	26.6	40.0

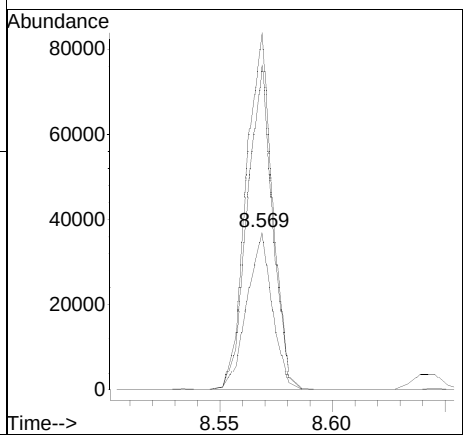


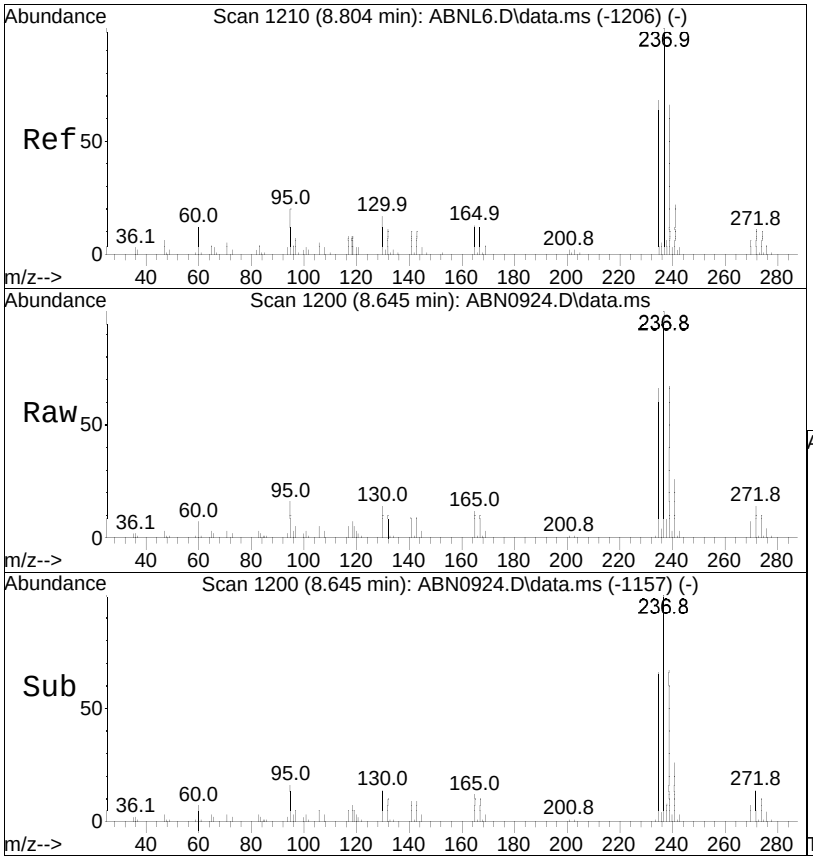


#42
1-Methylnaphthalene
Concen: 4.82 ug/ml M3
RT: 8.569 min Scan# 1187
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:115 Resp: 28938

Ion	Ratio	Lower	Upper
115	100		
141	214.1	207.8	311.6
142	253.2	226.8	340.2

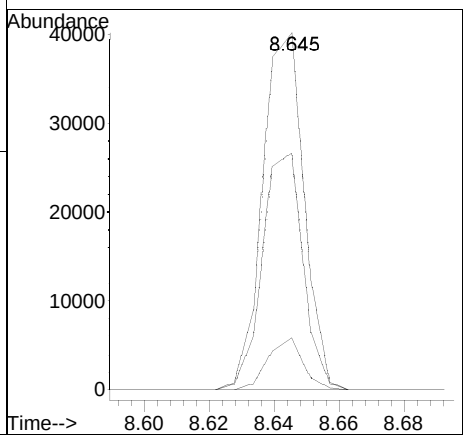


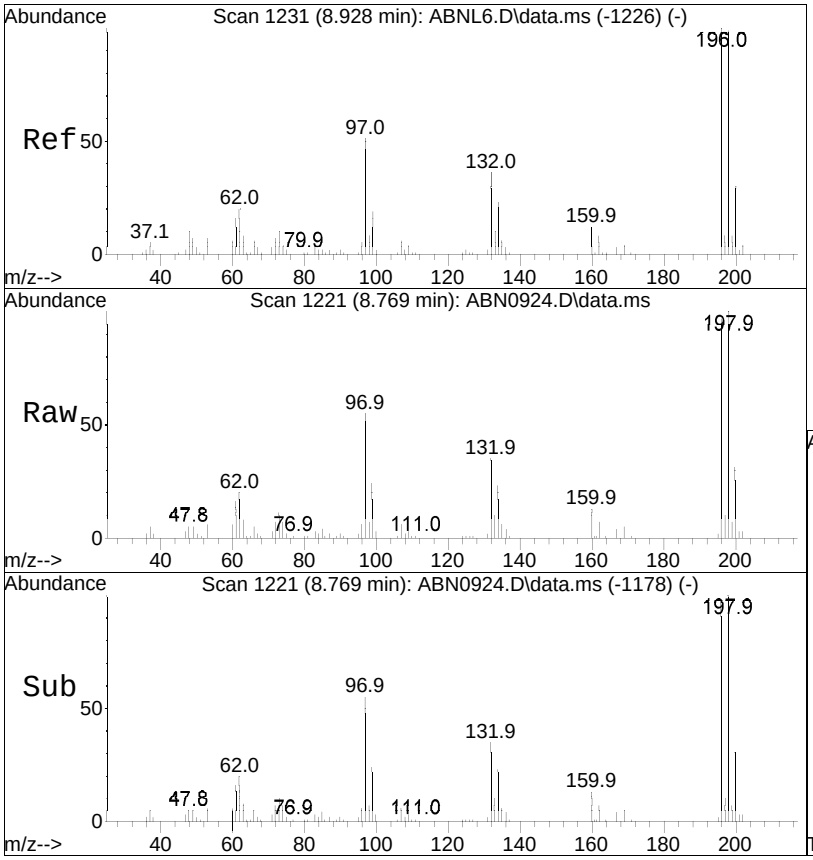


#43
Hexachlorocyclopentadiene
Concen: 5.11 ug/ml
RT: 8.645 min Scan# 1200
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:237 Resp: 35500

Ion	Ratio	Lower	Upper
237	100		
235	65.3	49.7	74.5
272	12.4	9.8	14.6

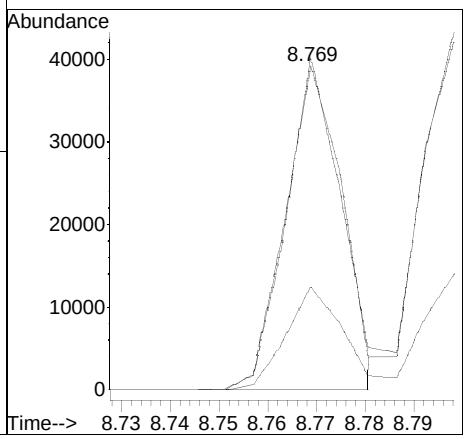


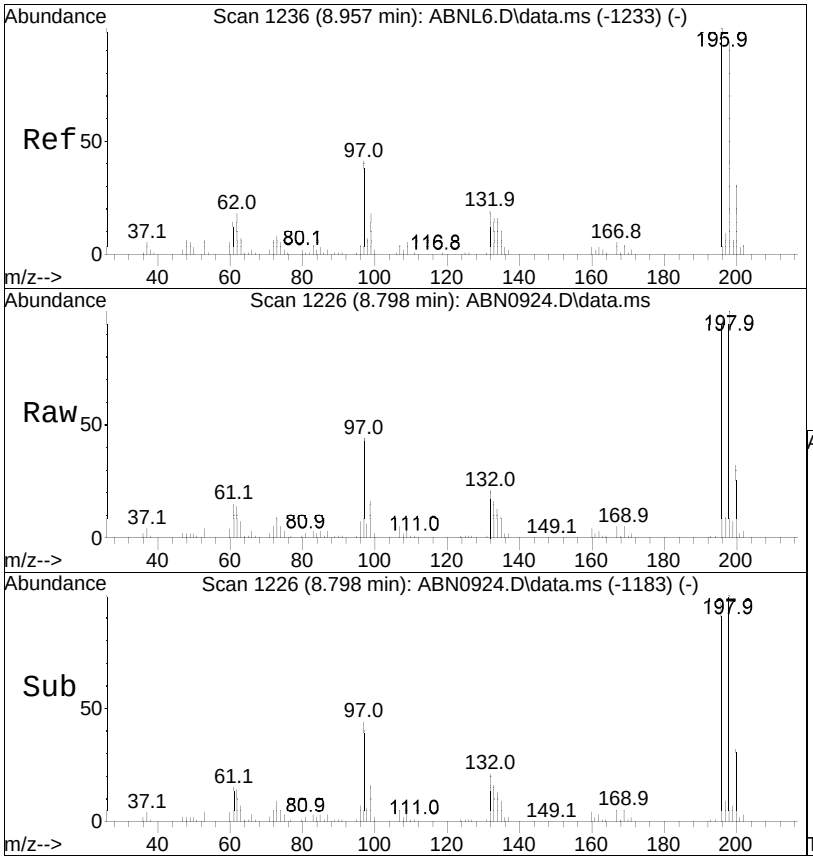


#44
2,4,6-Trichlorophenol
Concen: 5.11 ug/ml
RT: 8.769 min Scan# 1221
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:196 Resp: 31768

Ion	Ratio	Lower	Upper
196	100		
198	104.0	77.5	116.3
200	33.3	23.8	35.6

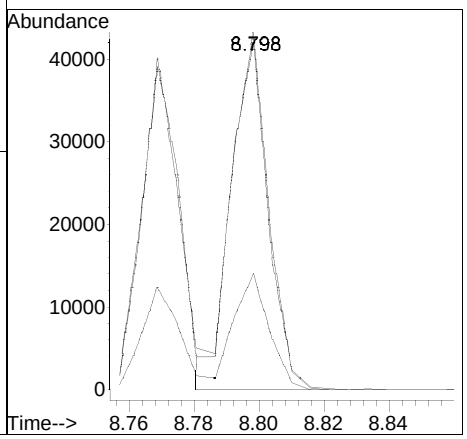


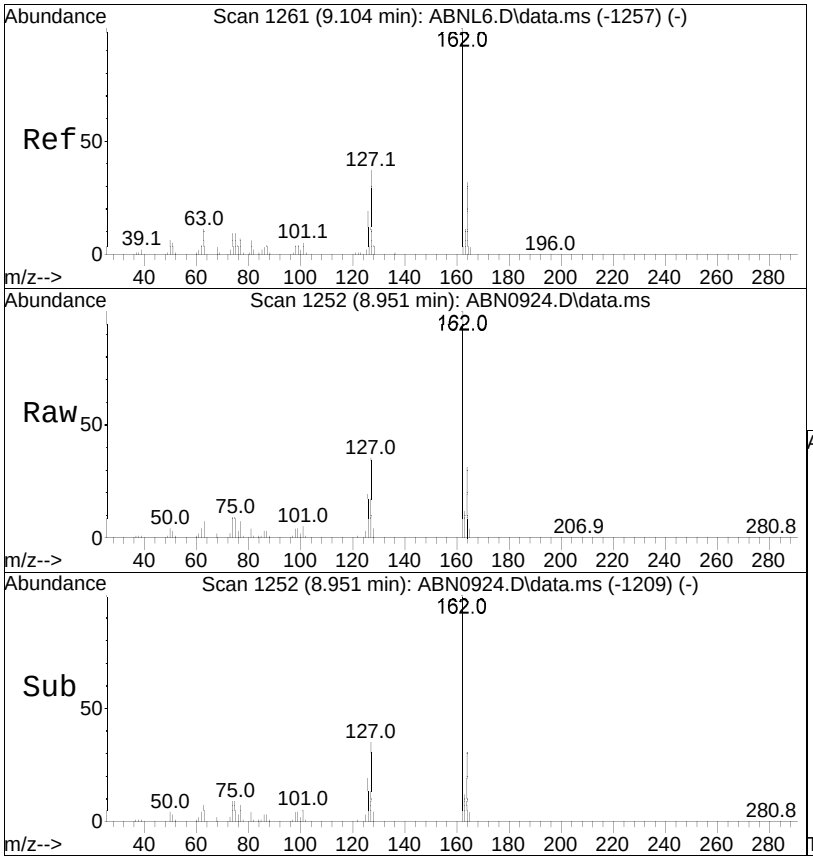


#45
2,4,5-Trichlorophenol
Concen: 4.97 ug/ml
RT: 8.798 min Scan# 1226
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:196 Resp: 33088

Ion	Ratio	Lower	Upper
196	100		
200	31.7	25.4	38.0
198	97.8	78.0	117.0

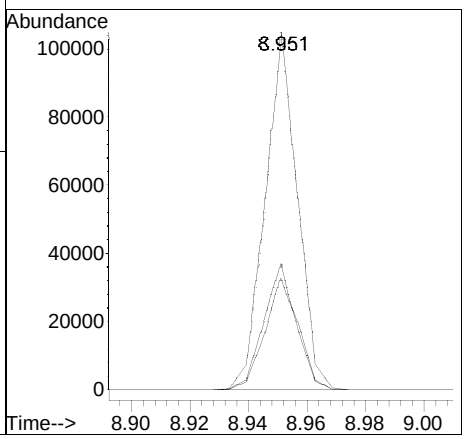


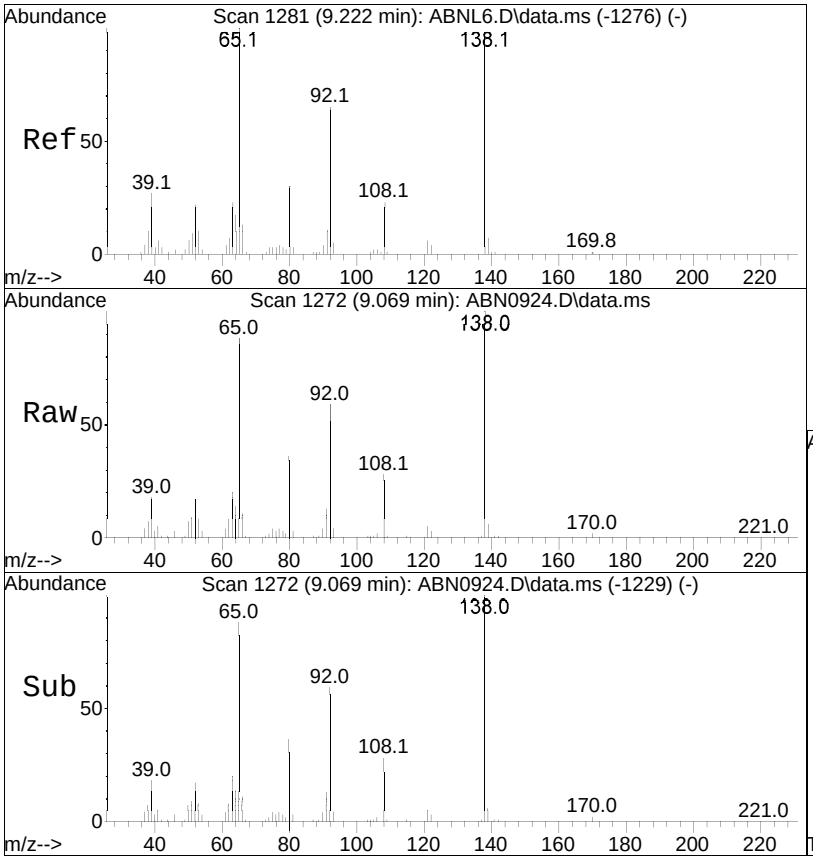


#47
2-Chloronaphthalene
Concen: 4.71 ug/ml
RT: 8.951 min Scan# 1252
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:162 Resp: 79184

Ion	Ratio	Lower	Upper
162	100		
127	35.7	32.2	48.4
164	32.7	25.7	38.5

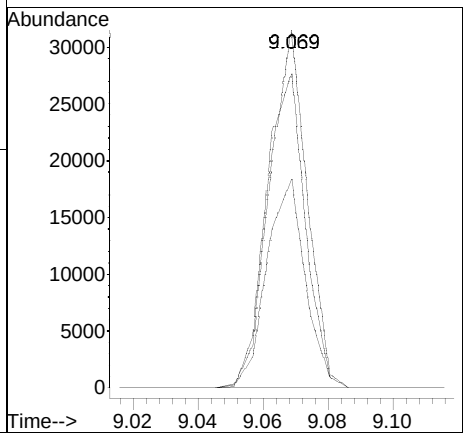


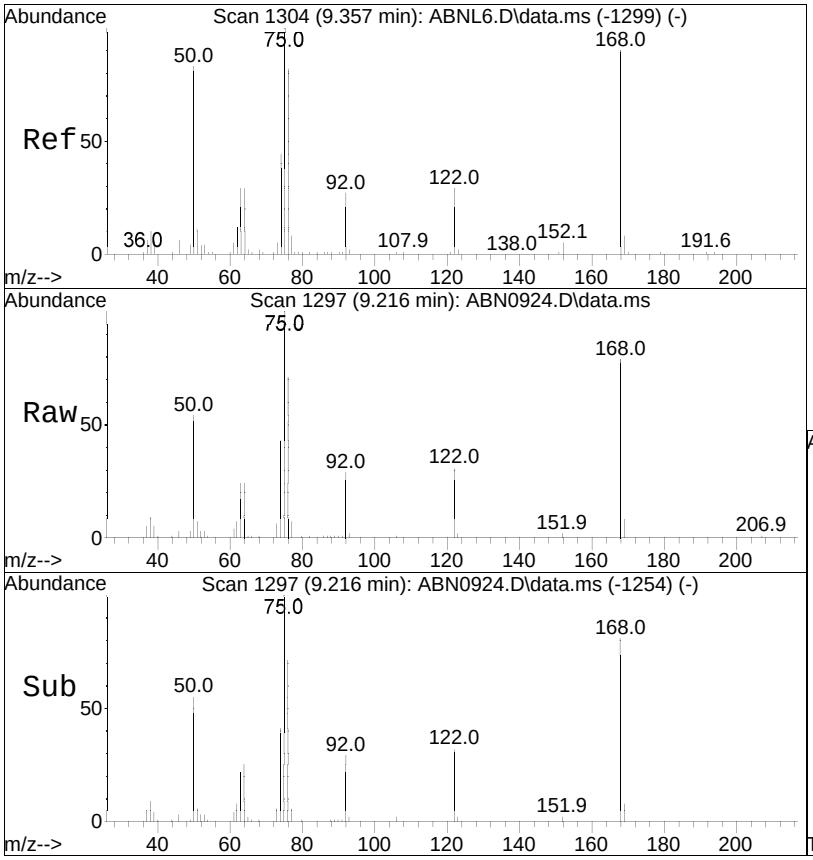


#48
2-Nitroaniline
Concen: 4.94 ug/ml
RT: 9.069 min Scan# 1272
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:138 Resp: 25043

Ion	Ratio	Lower	Upper
138	100		
92	60.1	53.5	80.3
65	92.2	86.3	129.5

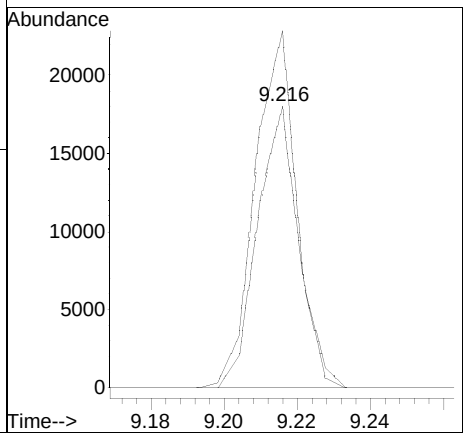


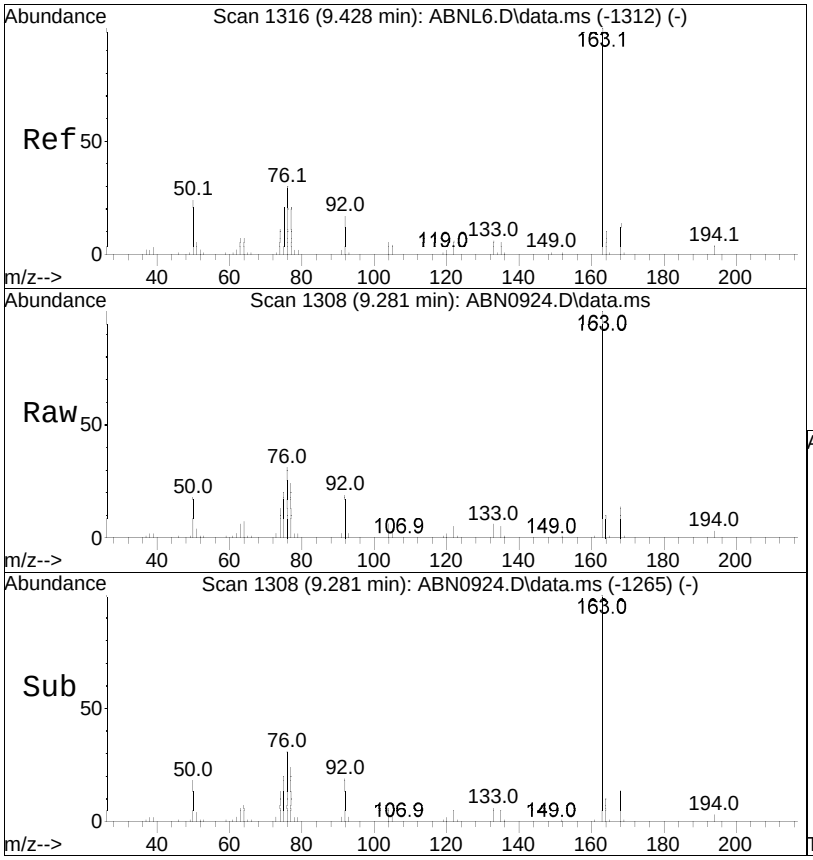


#49
1,4-Dinitrobenzene
Concen: 5.30 ug/ml
RT: 9.216 min Scan# 1297
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:168 Resp: 14133

Ion	Ratio	Lower	Upper
168	100		
75	126.6	121.8	182.8

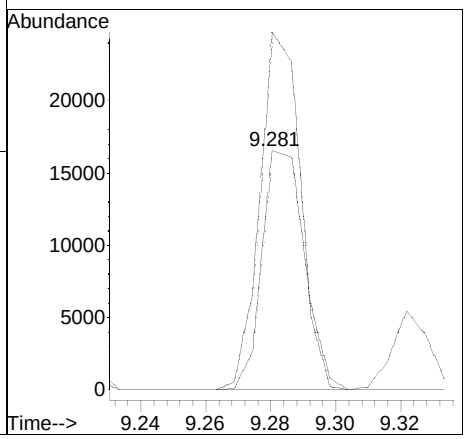


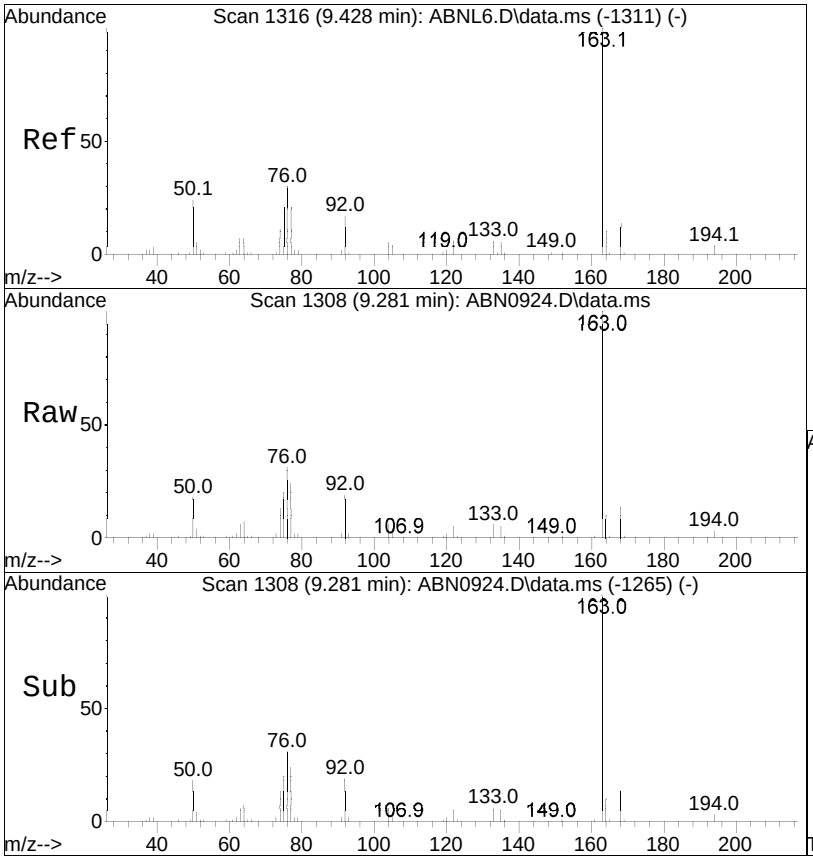


#50
1,3-Dinitrobenzene
Concen: 4.92 ug/ml
RT: 9.281 min Scan# 1308
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:168 Resp: 14948

Ion	Ratio	Lower	Upper
168	100		
75	142.2	22.7	34.1#

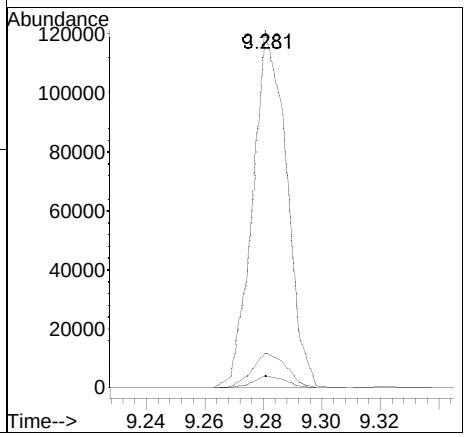


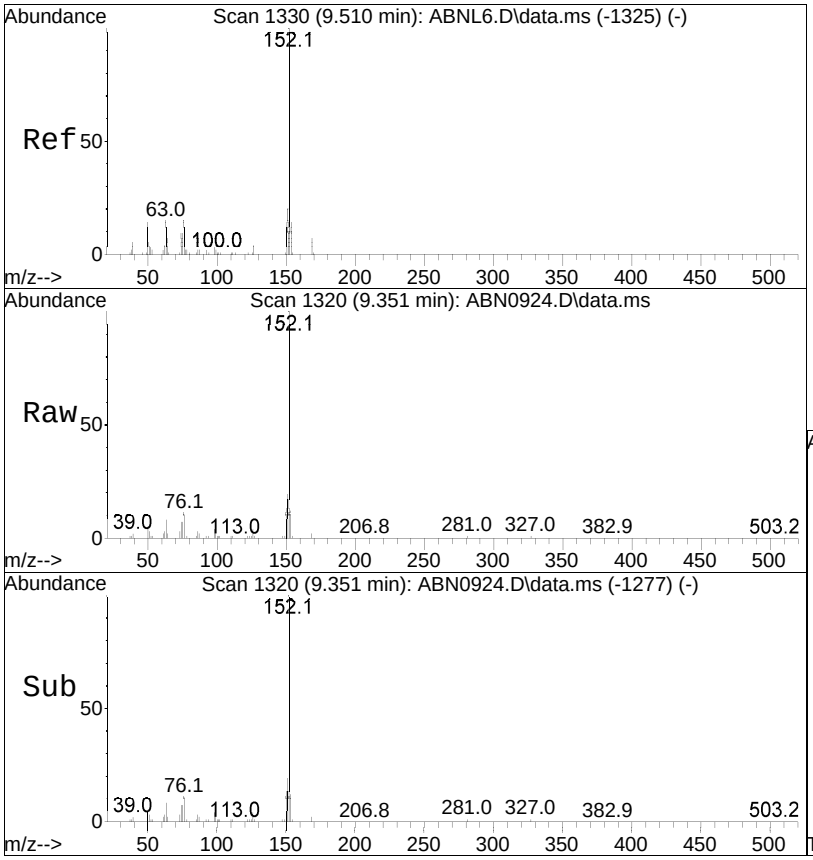


#51
Dimethyl phthalate
Concen: 4.74 ug/ml
RT: 9.281 min Scan# 1308
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:163 Resp: 96925

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	9.9	7.9	11.9

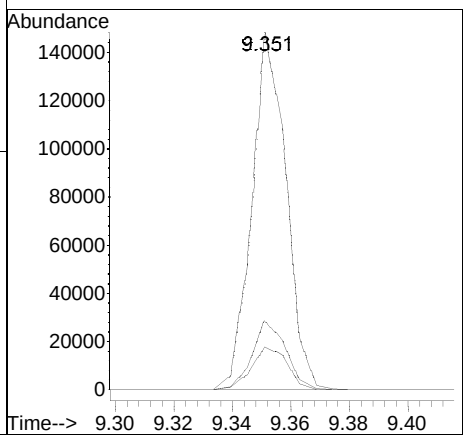


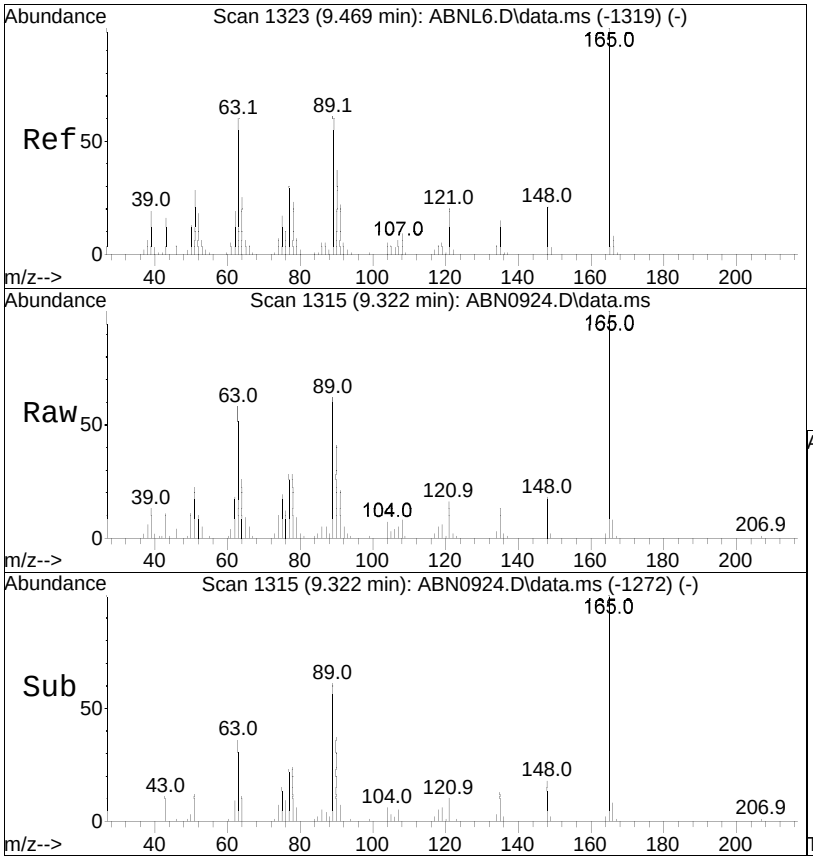


#52
Acenaphthylene
Concen: 4.62 ug/ml
RT: 9.351 min Scan# 1320
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:152 Resp: 118978

Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.8	23.6
153	12.6	10.5	15.7

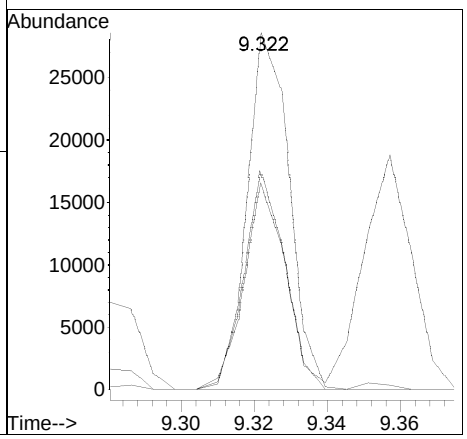


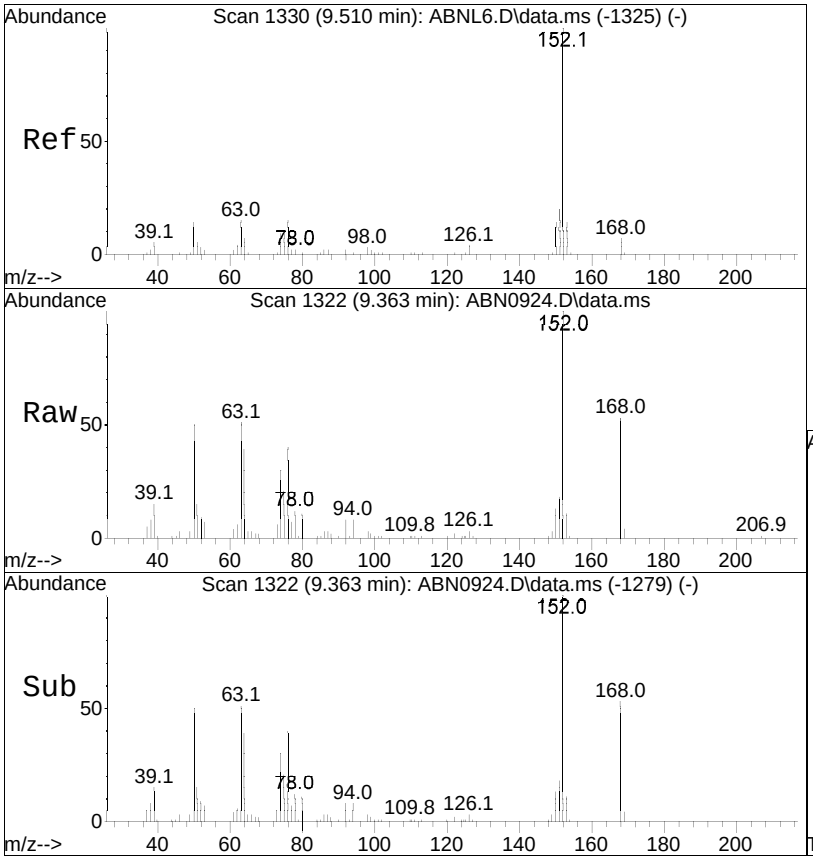


#53
2,6-Dinitrotoluene
Concen: 5.18 ug/ml
RT: 9.322 min Scan# 1315
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:165 Resp: 22816

Ion	Ratio	Lower	Upper
165	100		
89	59.6	54.2	81.2
63	57.7	64.2	96.2#

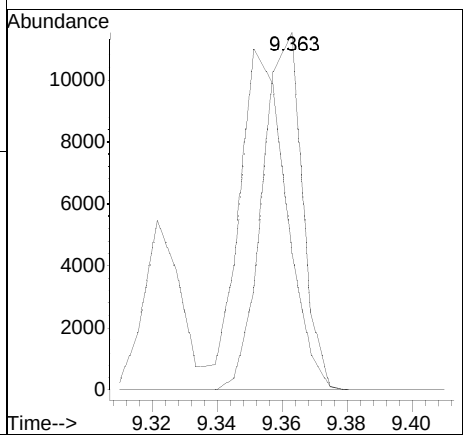


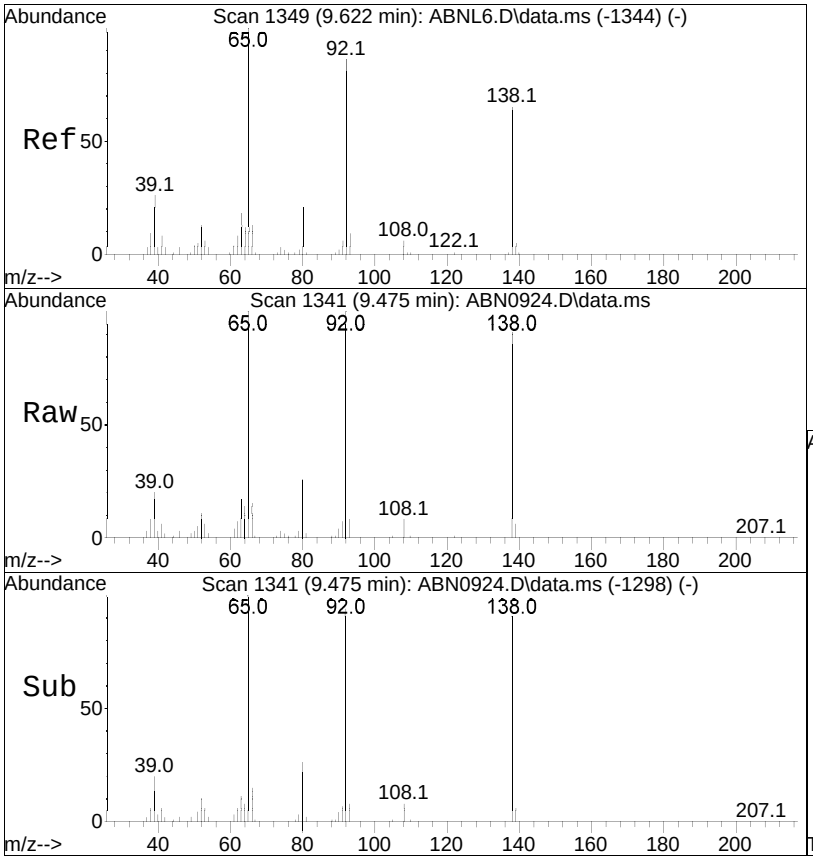


#54
1,2-Dinitrobenzene
Concen: 5.22 ug/ml
RT: 9.363 min Scan# 1322
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:168 Resp: 9813

Ion	Ratio	Lower	Upper
168	100		
75	113.0	30.9	46.3#

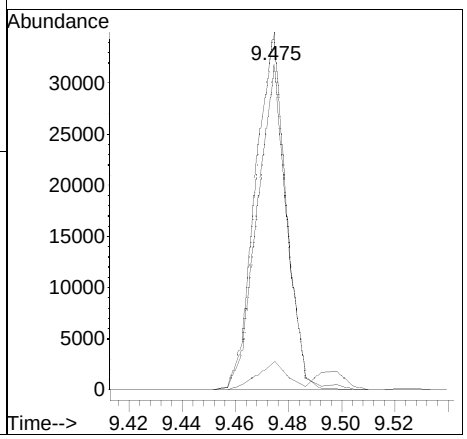


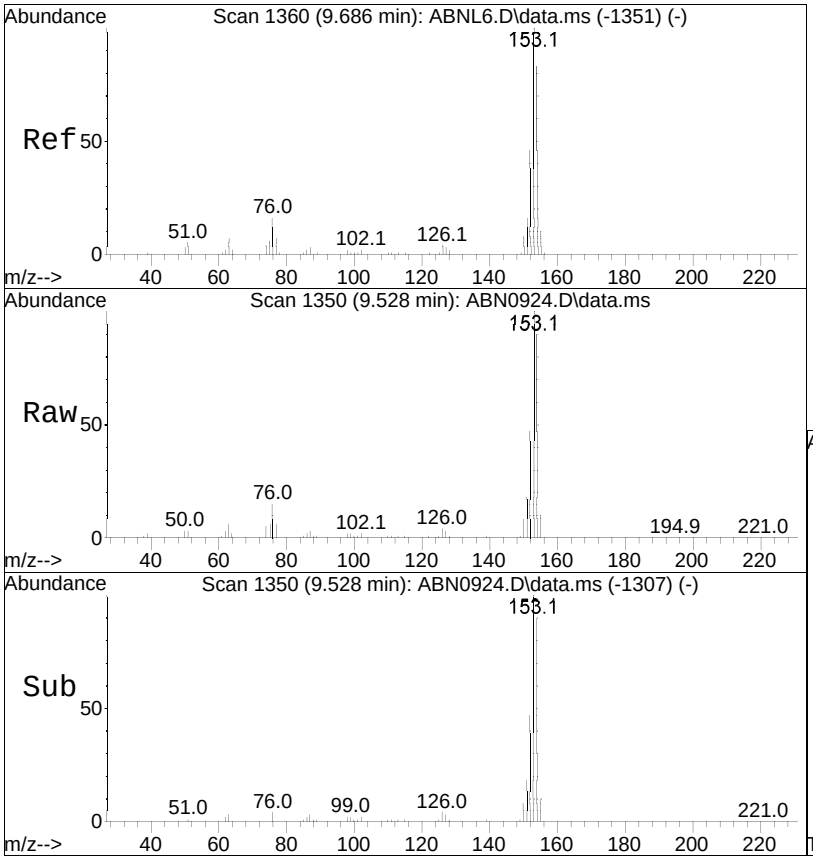


#64
3-Nitroaniline
Concen: 5.33 ug/ml
RT: 9.475 min Scan# 1341
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:138 Resp: 24211

Ion	Ratio	Lower	Upper
138	100		
92	115.0	93.4	140.2
108	9.4	9.5	14.3#

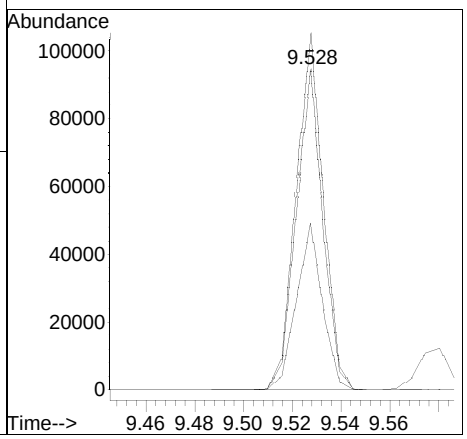


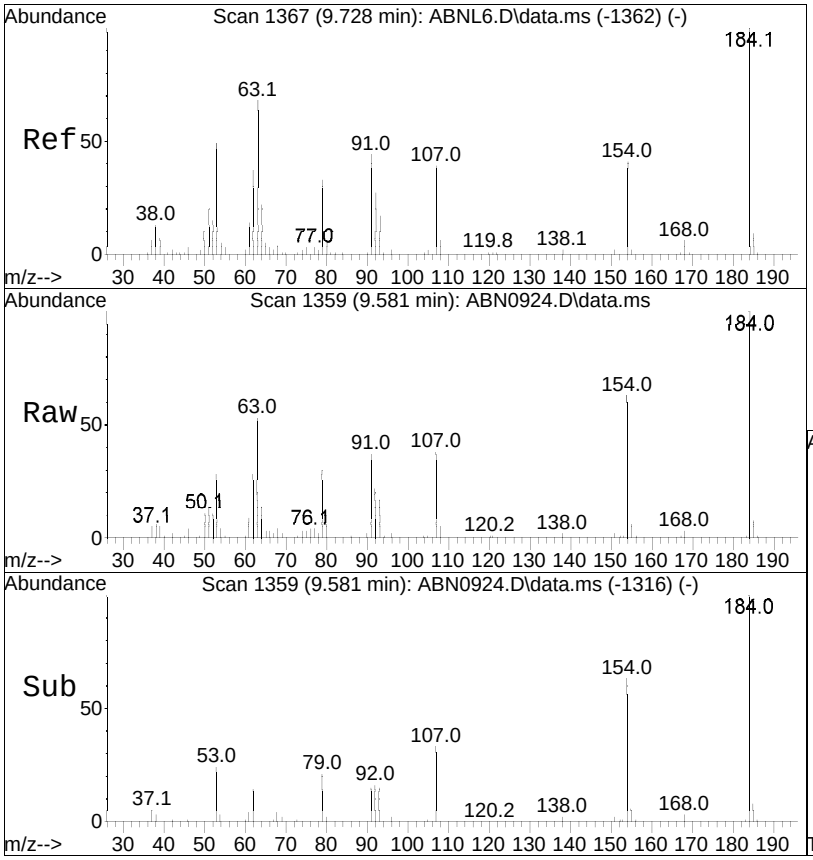


#65
Acenaphthene
Concen: 4.36 ug/ml
RT: 9.528 min Scan# 1350
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:154 Resp: 71472

Ion	Ratio	Lower	Upper
154	100		
153	113.9	85.3	127.9
152	51.0	41.4	62.0

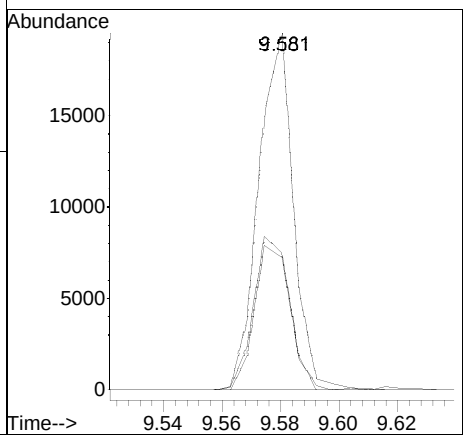


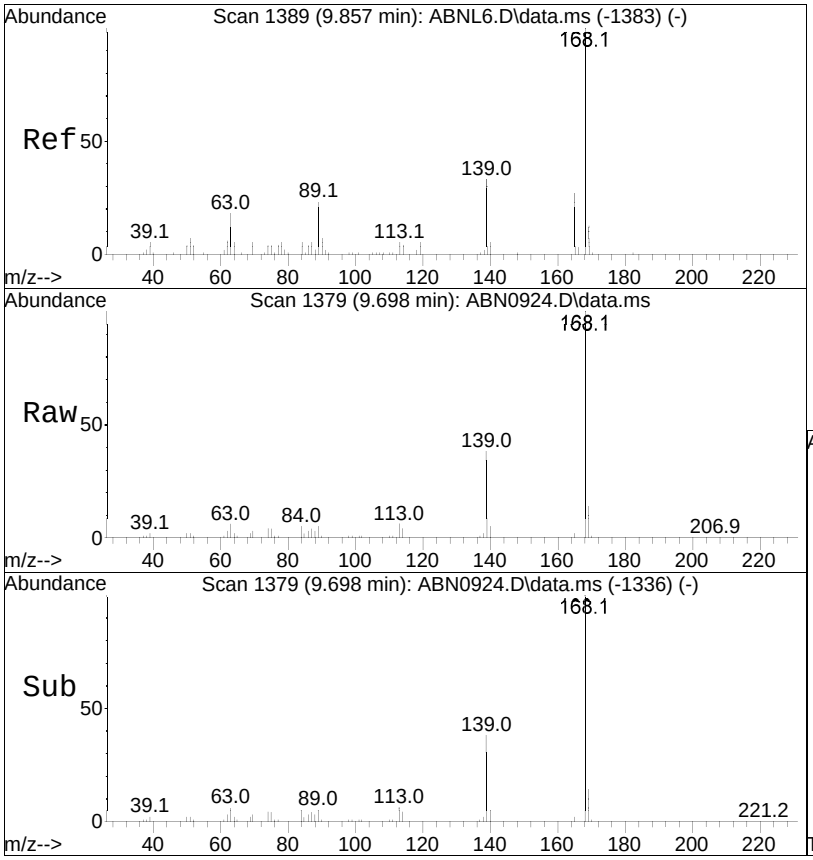


#66
2,4-Dinitrophenol
Concen: 5.27 ug/ml
RT: 9.581 min Scan# 1359
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:184 Resp: 15973

Ion	Ratio	Lower	Upper
184	100		
107	44.8	37.7	56.5
91	41.9	46.3	69.5#

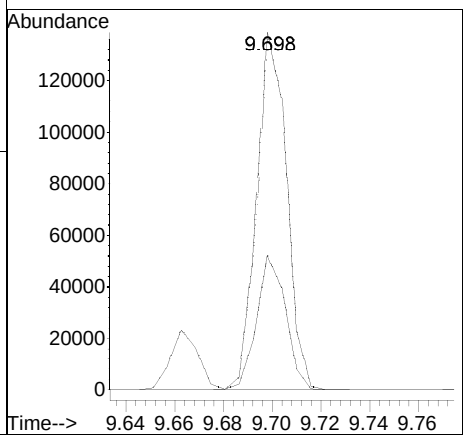


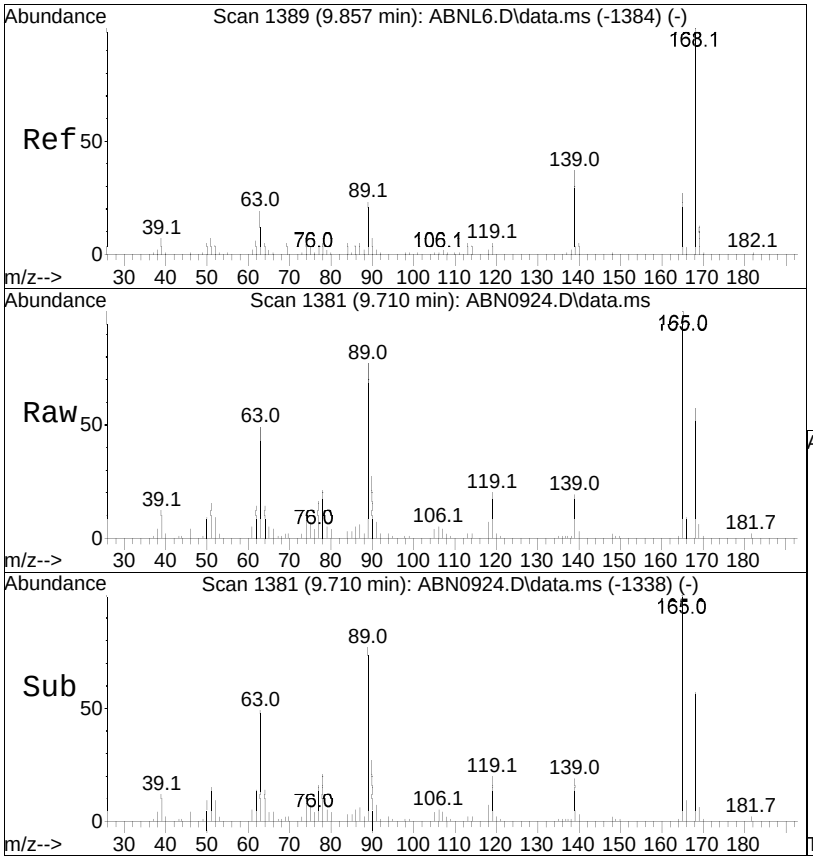


#67
Dibenzofuran
Concen: 4.25 ug/ml
RT: 9.698 min Scan# 1379
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:168 Resp: 117005

Ion	Ratio	Lower	Upper
168	100		
139	36.7	31.4	47.2

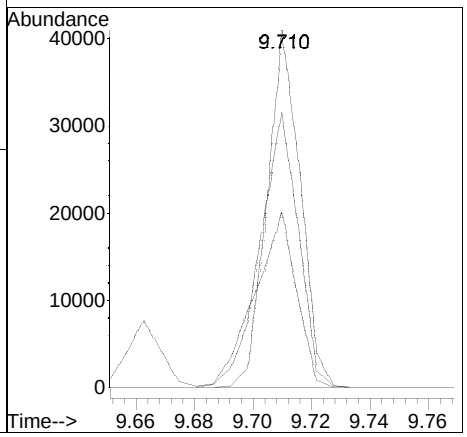


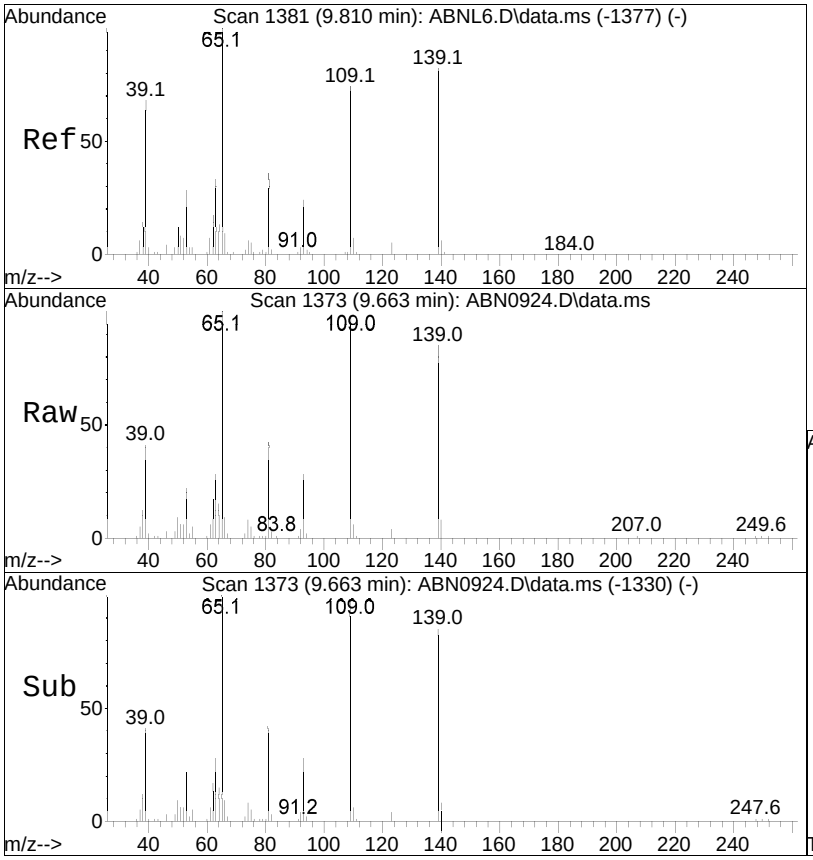


#68
2,4-Dinitrotoluene
Concen: 4.74 ug/ml
RT: 9.710 min Scan# 1381
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:165 Resp: 31954

Ion	Ratio	Lower	Upper
165	100		
89	89.0	72.0	108.0
63	62.3	52.7	79.1

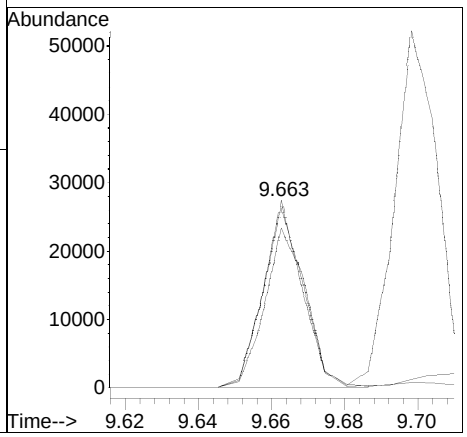


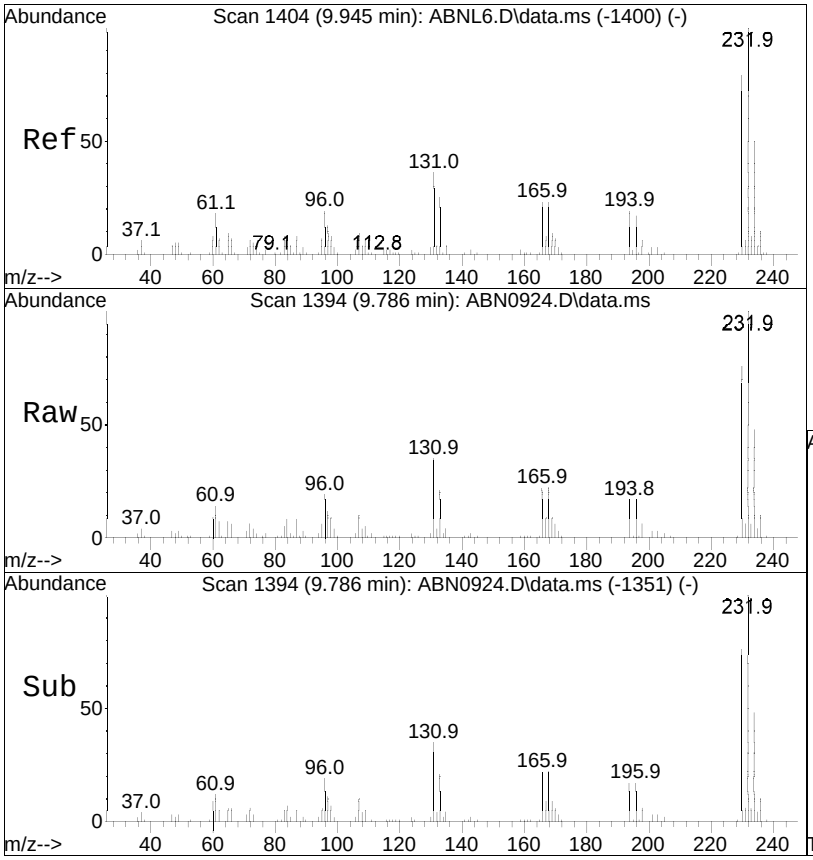


#69
4-Nitrophenol
Concen: 4.38 ug/ml
RT: 9.663 min Scan# 1373
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 65 Resp: 20154

Ion	Ratio	Lower	Upper
65	100		
109	100.5	47.4	71.2#
139	91.3	76.6	115.0

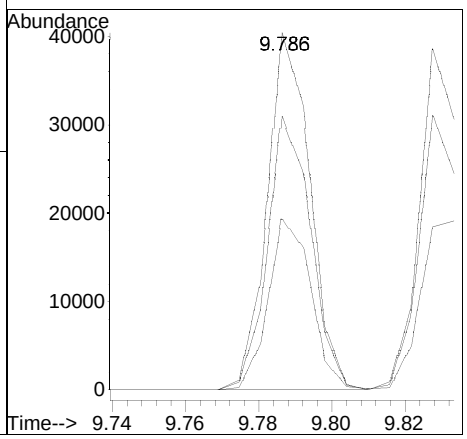


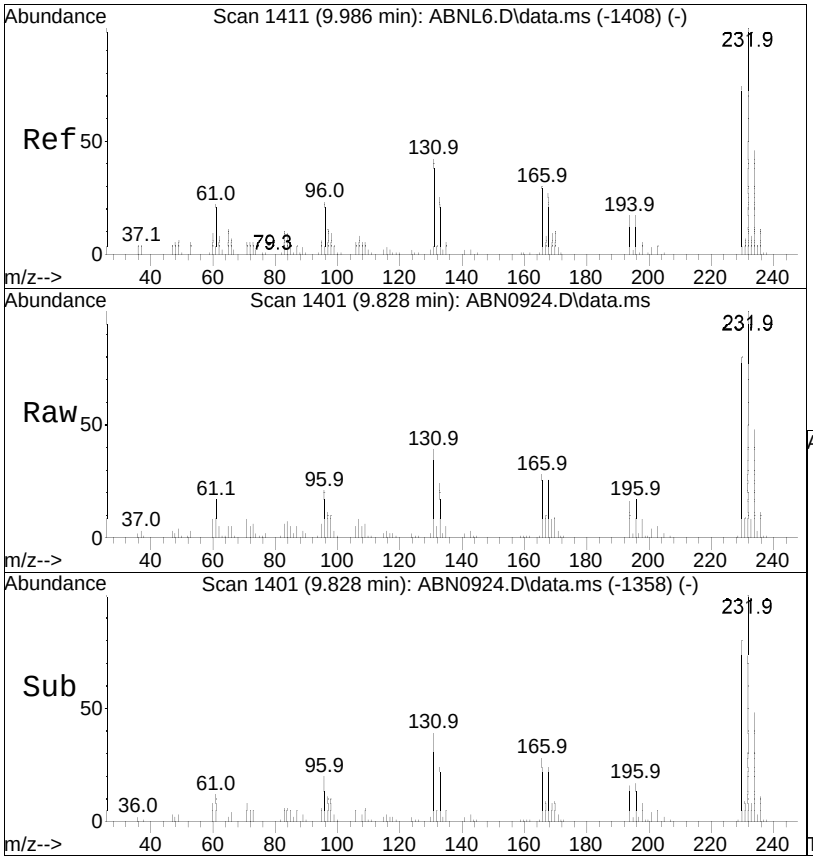


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.13 ug/ml
RT: 9.786 min Scan# 1394
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:232 Resp: 32934

Ion	Ratio	Lower	Upper
232	100		
230	77.5	64.2	96.4
234	48.0	38.1	57.1

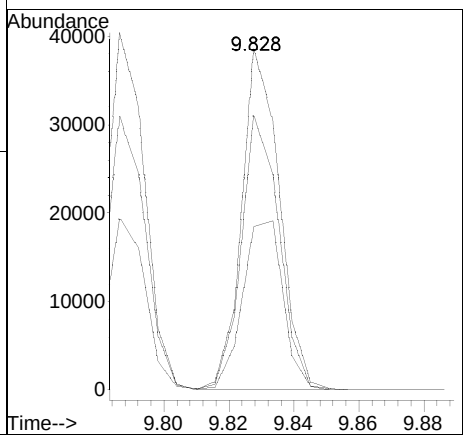


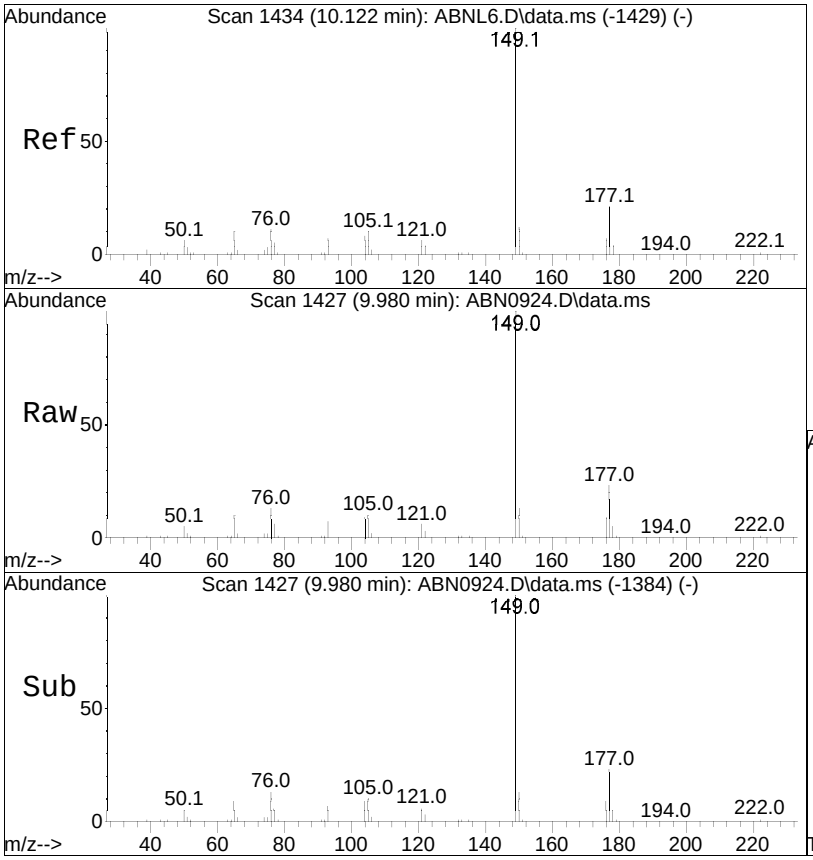


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.04 ug/ml
RT: 9.828 min Scan# 1401
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:232 Resp: 31128

Ion	Ratio	Lower	Upper
232	100		
230	80.4	61.8	92.8
234	53.5	36.2	54.2

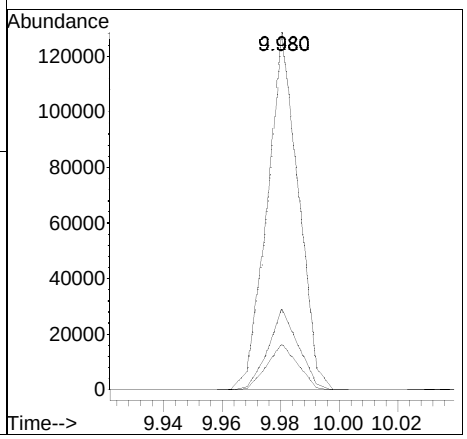


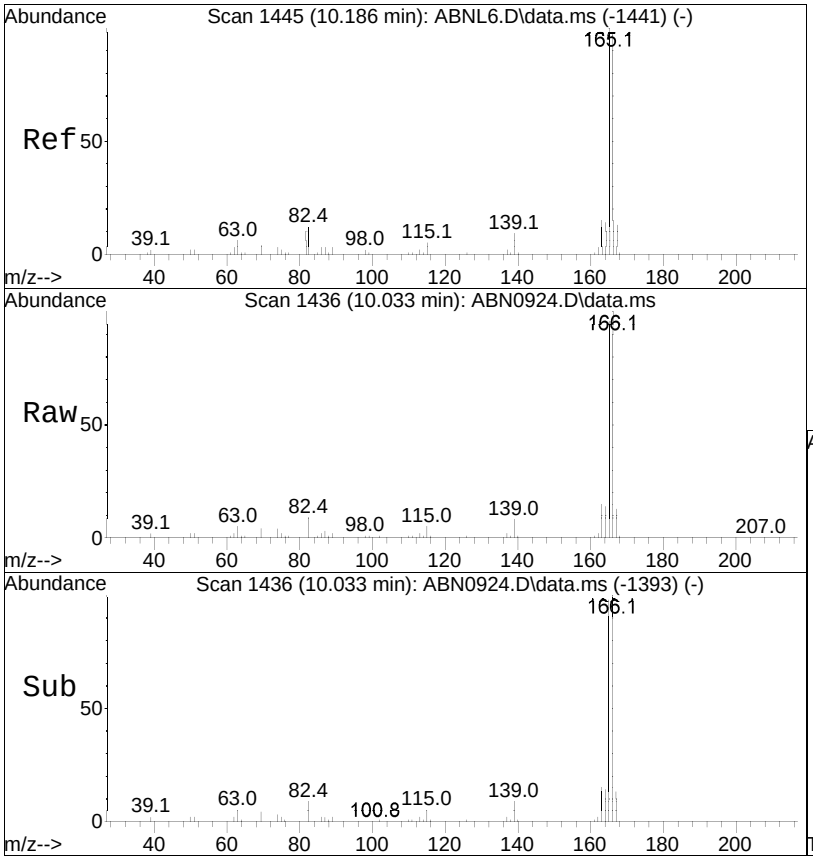


#72
Diethyl phthalate
Concen: 4.32 ug/ml
RT: 9.980 min Scan# 1427
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:149 Resp: 93930

Ion	Ratio	Lower	Upper
149	100		
177	22.2	16.1	24.1
150	13.0	9.4	14.2

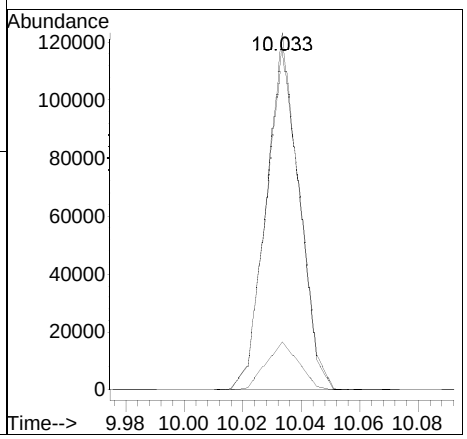


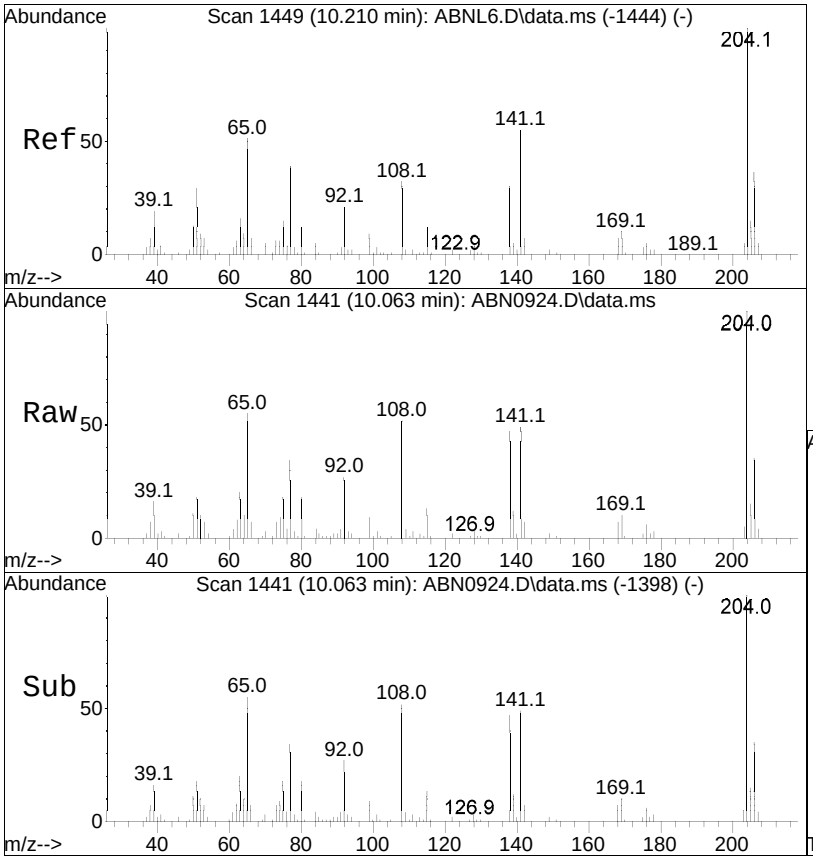


#73
Fluorene
Concen: 4.39 ug/ml
RT: 10.033 min Scan# 1436
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:166 Resp: 95020

Ion	Ratio	Lower	Upper
166	100		
165	99.3	76.2	114.2
167	13.7	10.6	15.8

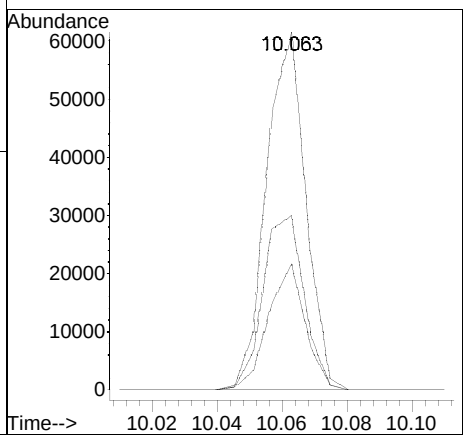


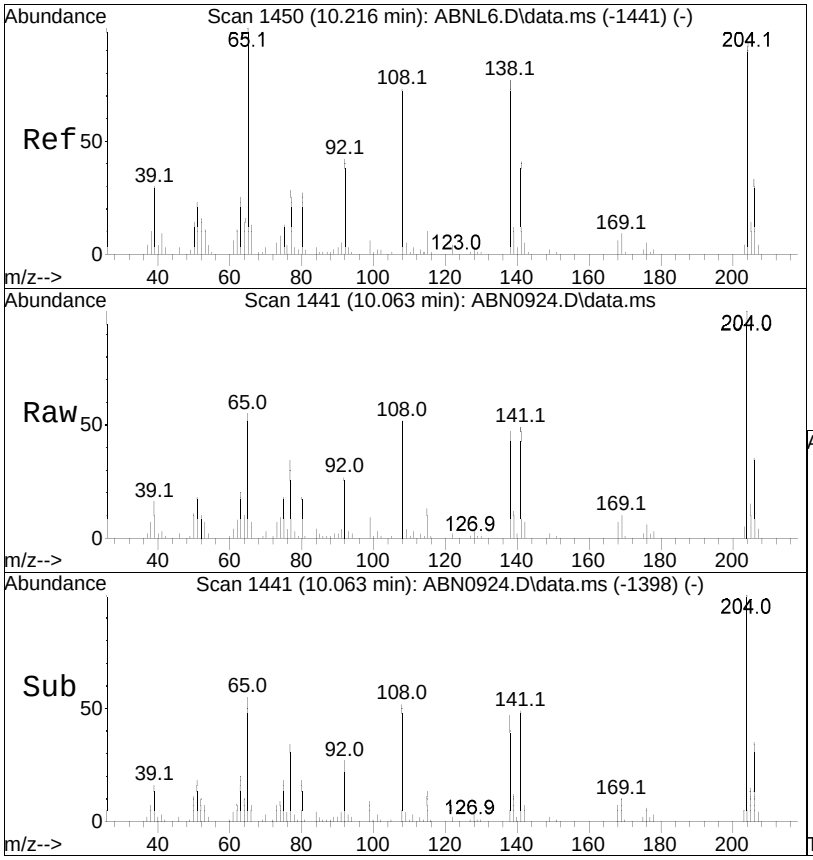


#74
4-Chlorophenyl phenyl ether
Concen: 4.51 ug/ml
RT: 10.063 min Scan# 1441
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:204 Resp: 51318

Ion	Ratio	Lower	Upper
204	100		
206	33.4	25.8	38.6
141	51.3	53.6	80.4#

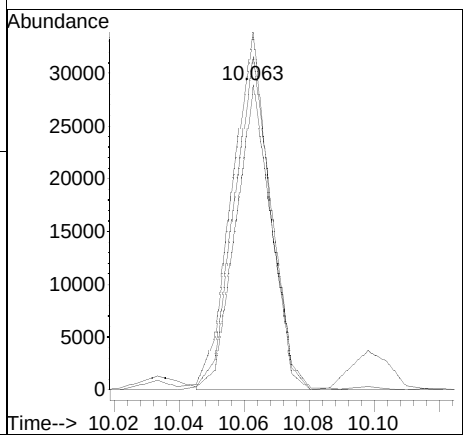


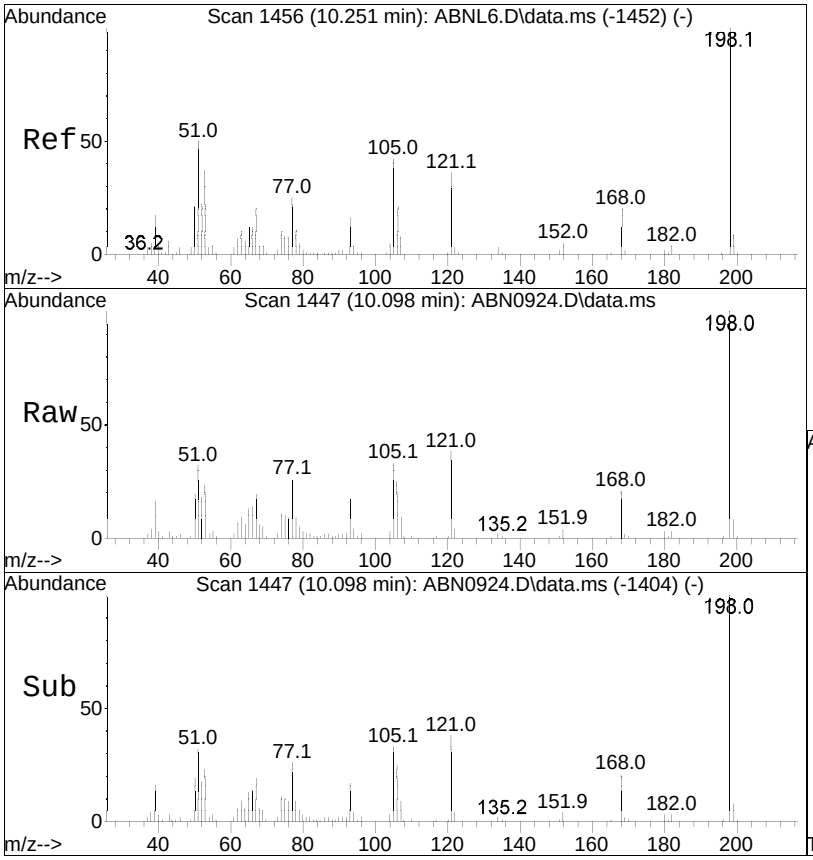


#75
4-Nitroaniline
Concen: 4.69 ug/ml
RT: 10.063 min Scan# 1441
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:138 Resp: 22166

Ion	Ratio	Lower	Upper
138	100		
108	112.8	52.1	78.1#
65	124.3	115.0	172.6

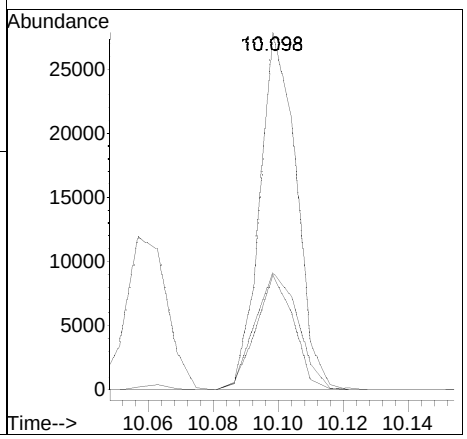


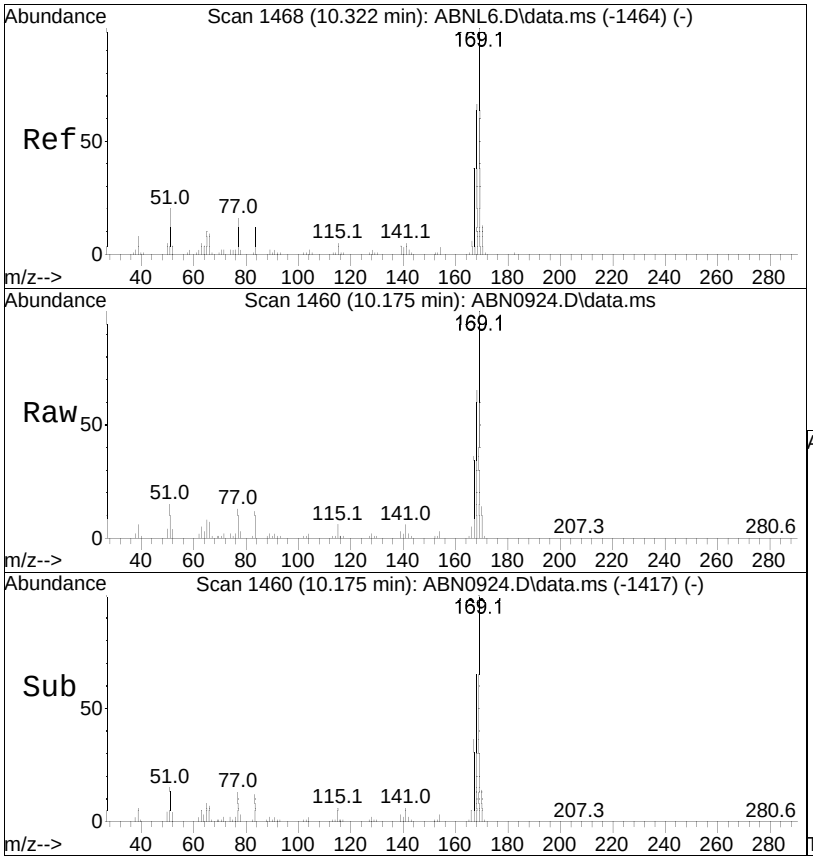


#76
4,6-Dinitro-o-cresol
Concen: 5.73 ug/ml
RT: 10.098 min Scan# 1447
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:198 Resp: 21666

Ion	Ratio	Lower	Upper
198	100		
51	33.7	76.0	114.0#
105	39.0	45.6	68.4#

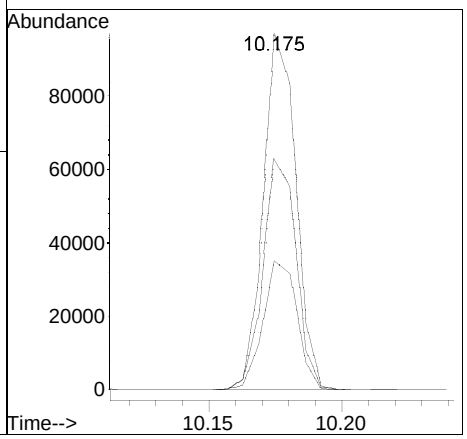


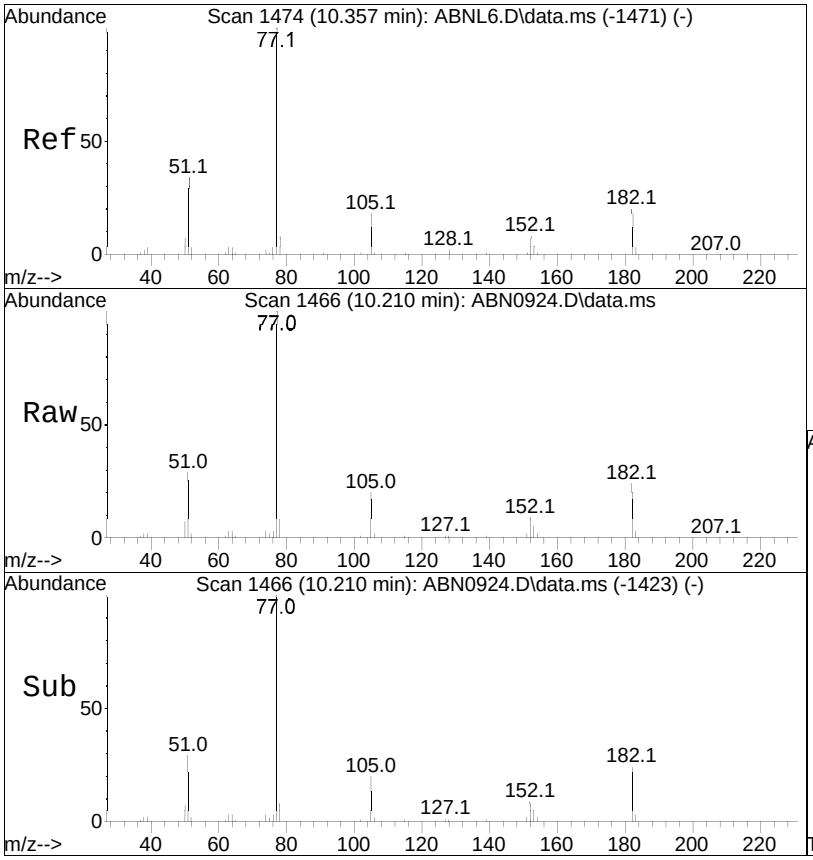


#77
NDPA/DPA
Concen: 4.58 ug/ml
RT: 10.175 min Scan# 1460
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:169 Resp: 82257

Ion	Ratio	Lower	Upper
169	100		
168	66.2	54.0	81.0
167	38.1	28.6	42.8

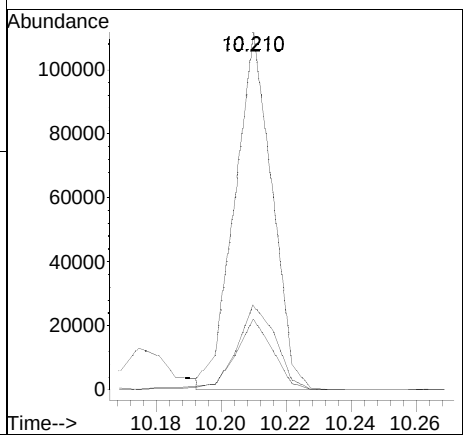


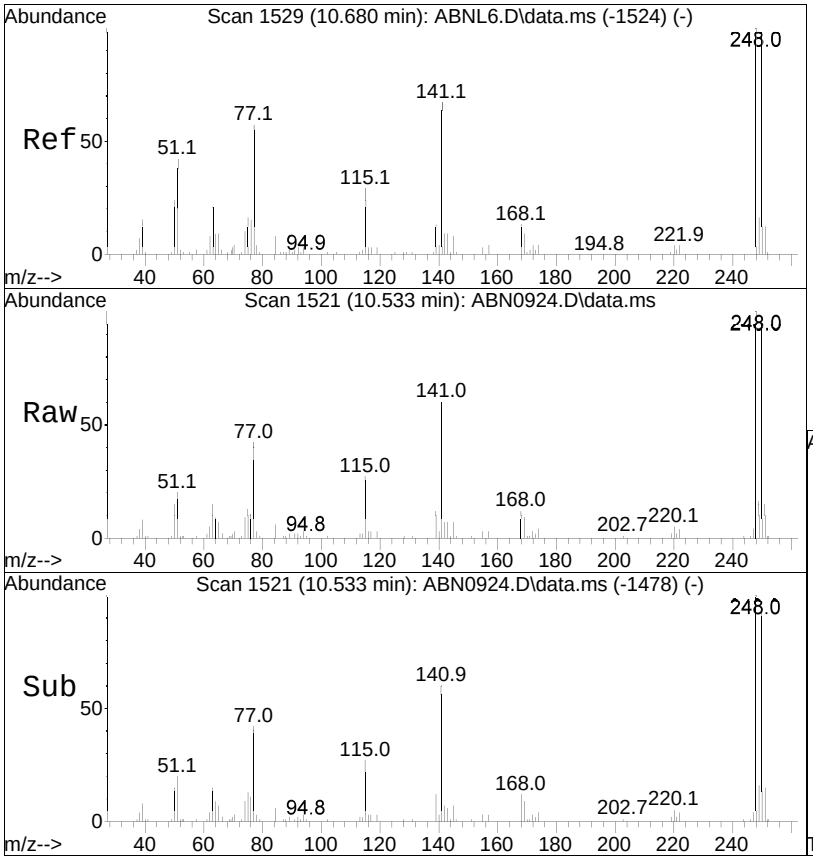


#78
Azobenzene
Concen: 4.29 ug/ml
RT: 10.210 min Scan# 1466
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion: 77 Resp: 88149

Ion	Ratio	Lower	Upper
77	100		
182	25.7	17.4	26.2
105	20.2	15.4	23.2

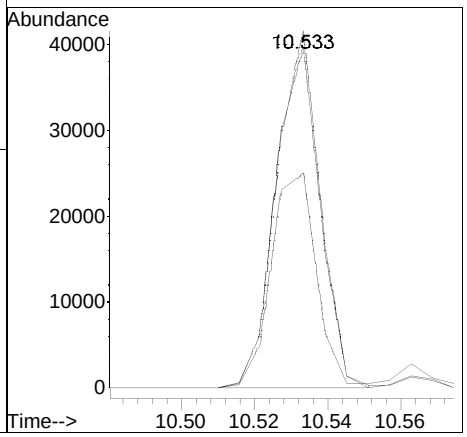


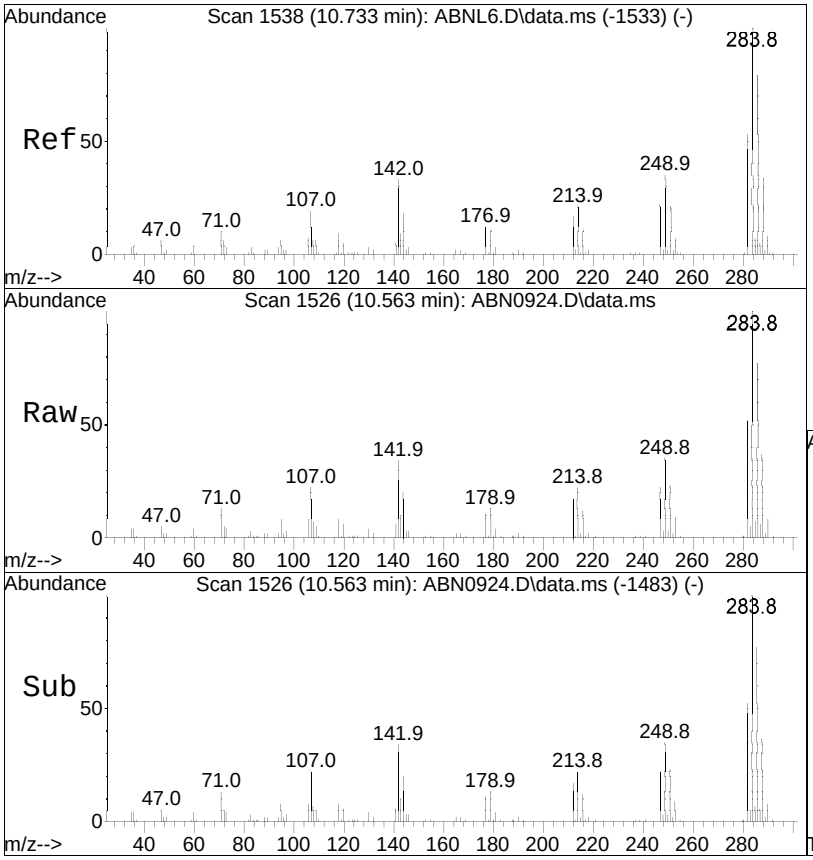


#80
4-Bromophenyl phenyl ether
Concen: 4.80 ug/ml
RT: 10.533 min Scan# 1521
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:248 Resp: 34083

Ion	Ratio	Lower	Upper
248	100		
141	63.1	76.6	114.8#
250	97.4	77.3	115.9

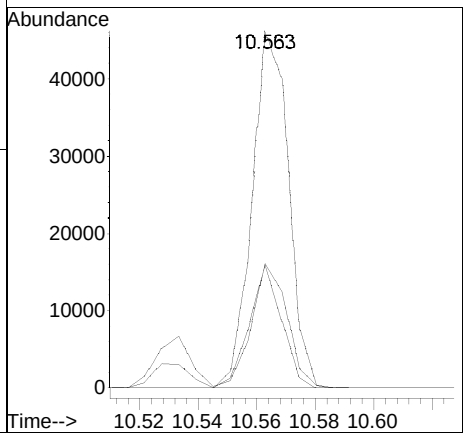


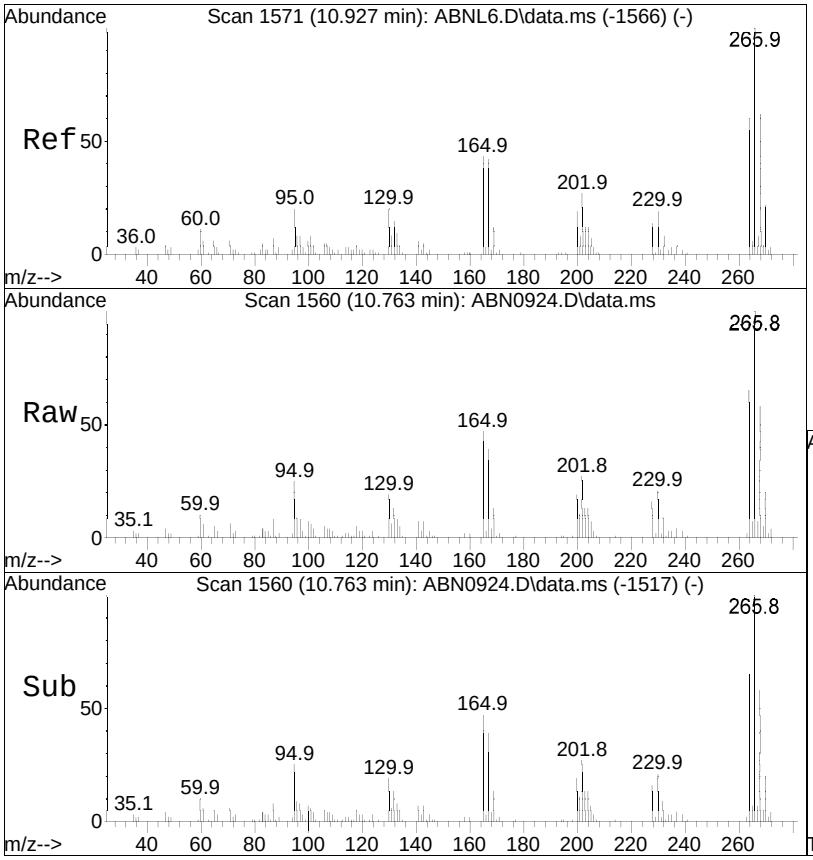


#81
Hexachlorobenzene
Concen: 4.91 ug/ml
RT: 10.563 min Scan# 1526
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:284 Resp: 39711

Ion	Ratio	Lower	Upper
284	100		
142	30.6	41.9	62.9#
249	34.1	24.1	36.1

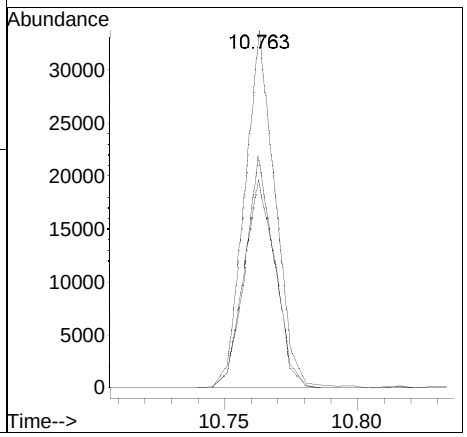


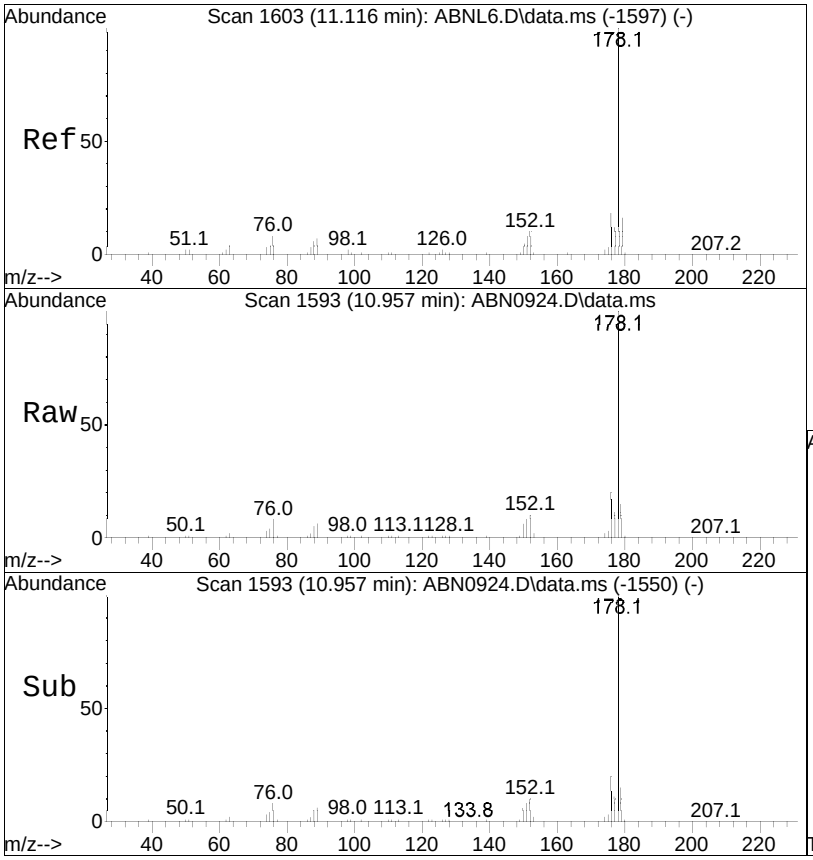


#82
Pentachlorophenol
Concen: 5.23 ug/ml
RT: 10.763 min Scan# 1560
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:266 Resp: 26819

Ion	Ratio	Lower	Upper
266	100		
264	62.3	49.7	74.5
268	60.6	50.5	75.7

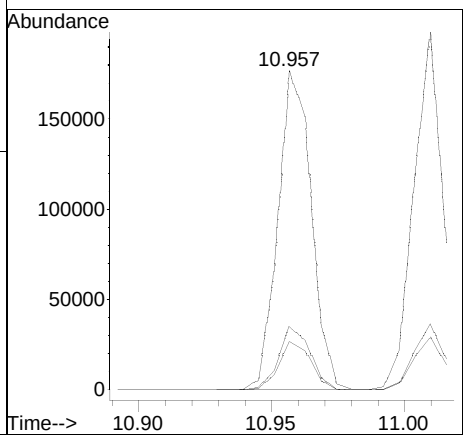


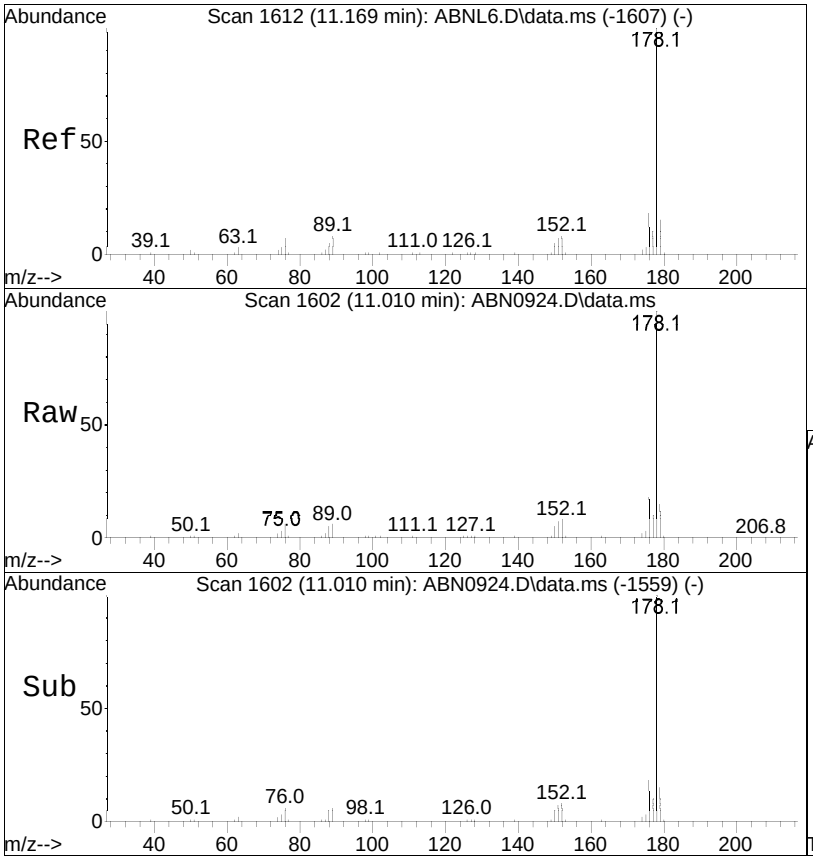


#89
Phenanthrene
Concen: 4.28 ug/ml
RT: 10.957 min Scan# 1593
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:178 Resp: 153979

Ion	Ratio	Lower	Upper
178	100		
179	14.5	12.2	18.2
176	18.8	15.4	23.2

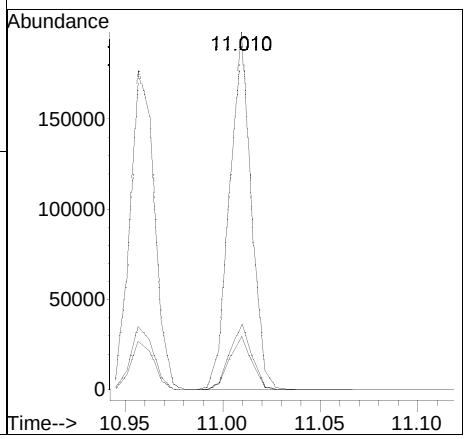


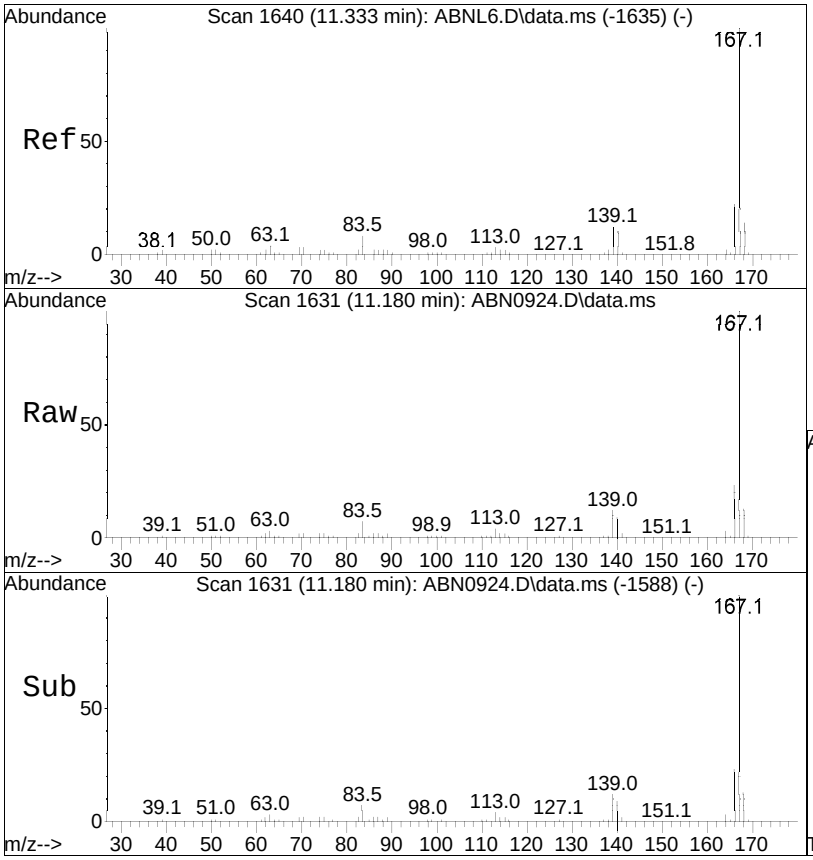


#90
Anthracene
Concen: 4.31 ug/ml
RT: 11.010 min Scan# 1602
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:178 Resp: 153941

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.0	18.0
176	18.8	14.6	22.0

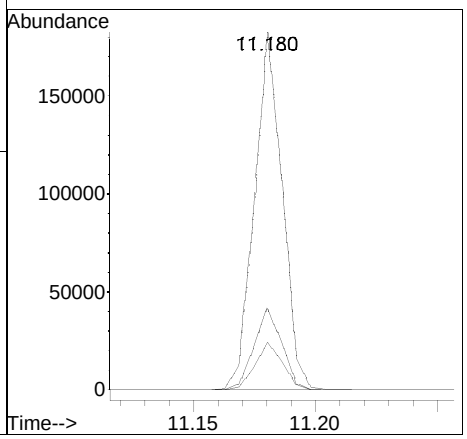


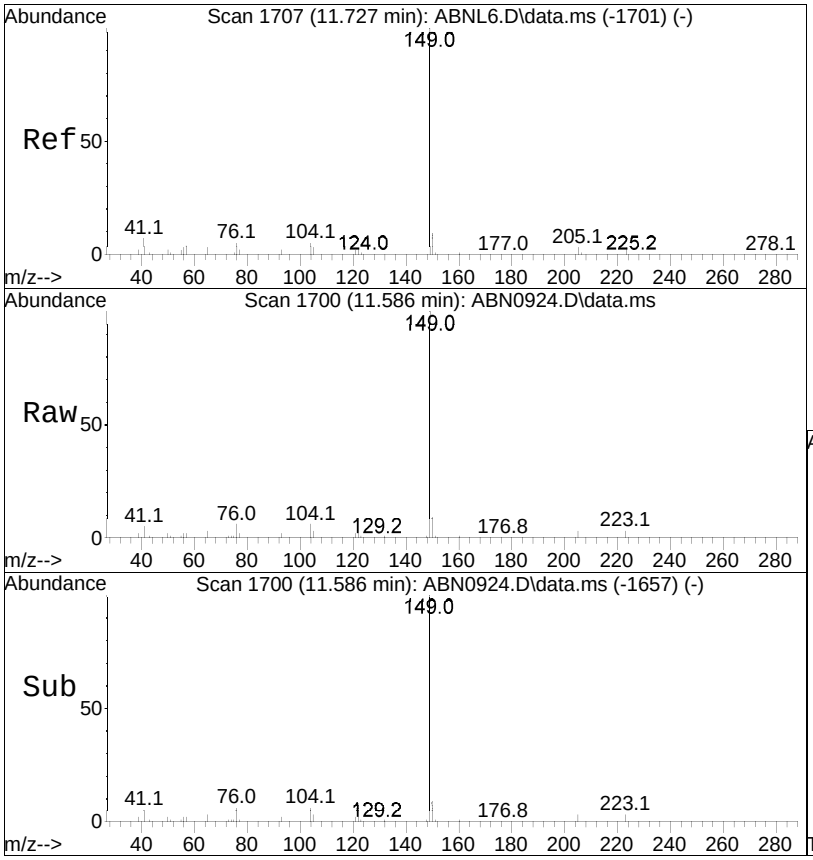


#91
Carbazole
Concen: 4.36 ug/ml
RT: 11.180 min Scan# 1631
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:167 Resp: 142796

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	23.0	17.4	26.0

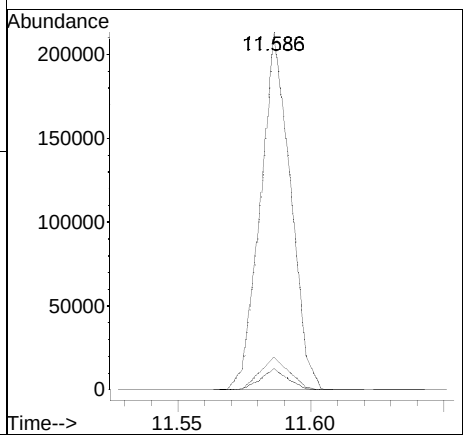


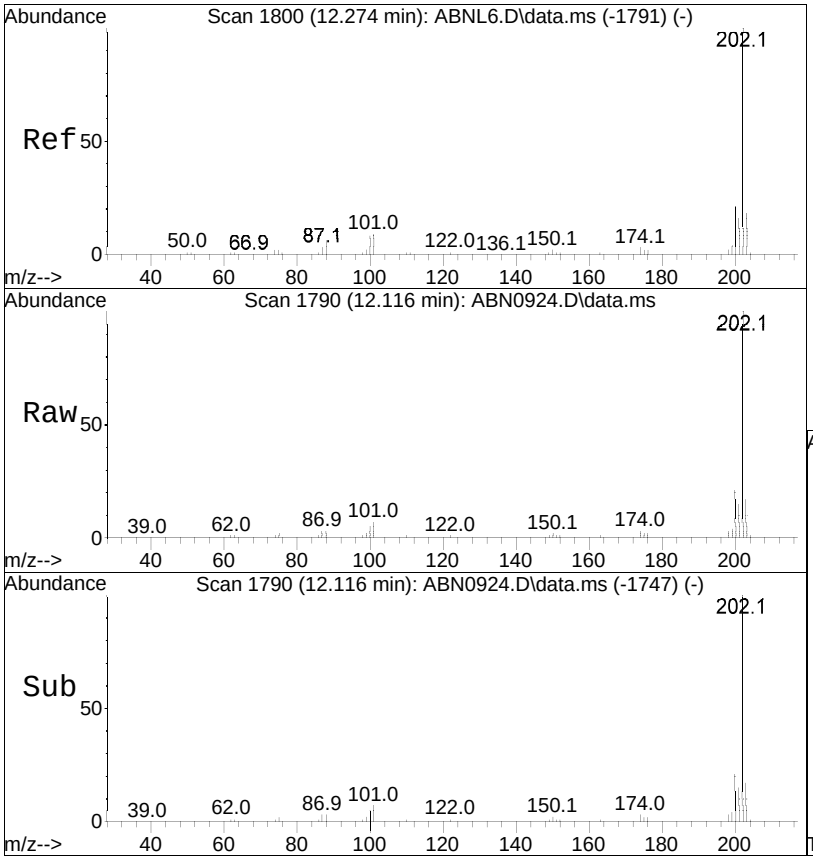


#92
Di-n-butylphthalate
Concen: 4.30 ug/ml
RT: 11.586 min Scan# 1700
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:149 Resp: 165274

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.6	4.5	6.7

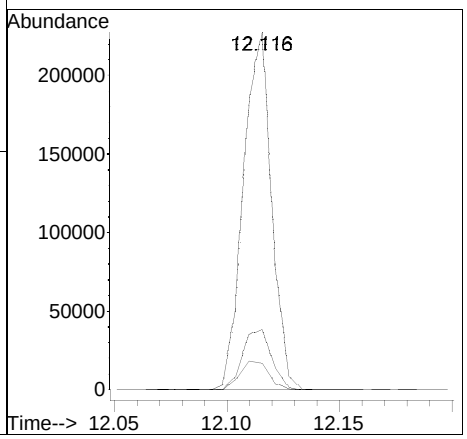


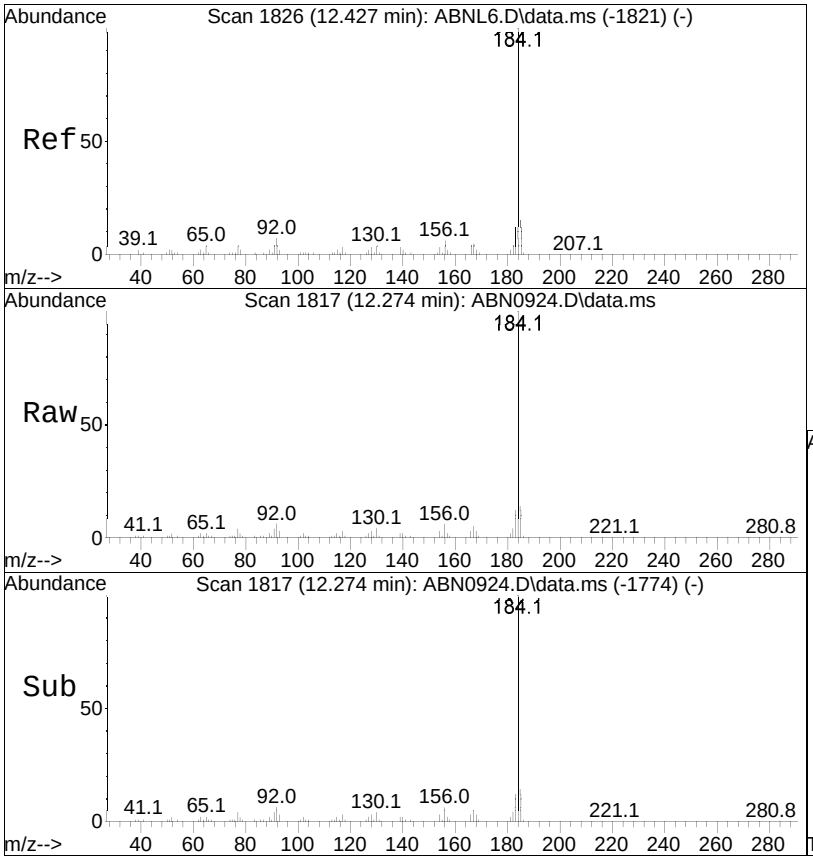


#93
Fluoranthene
Concen: 4.45 ug/ml
RT: 12.116 min Scan# 1790
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:202 Resp: 195801

Ion	Ratio	Lower	Upper
202	100		
101	8.4	13.5	20.3#
203	17.7	13.6	20.4

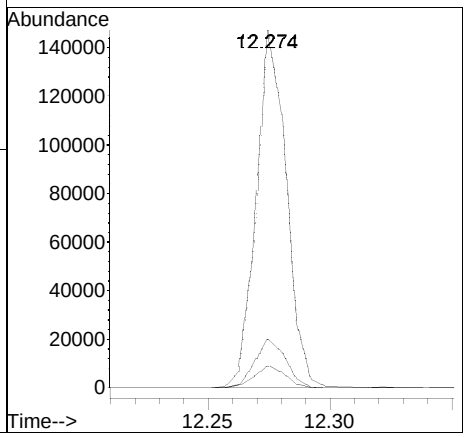


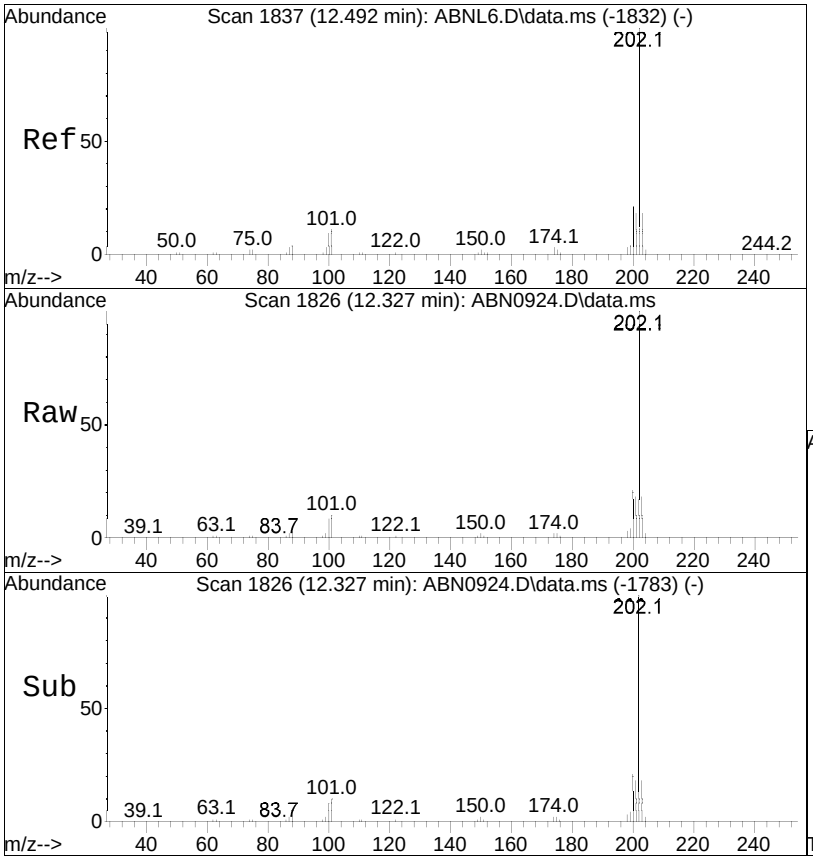


#94
Benzidine
Concen: 5.22 ug/ml
RT: 12.274 min Scan# 1817
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:184 Resp: 124598

Ion	Ratio	Lower	Upper
184	100		
92	6.4	9.1	13.7#
185	14.0	11.1	16.7

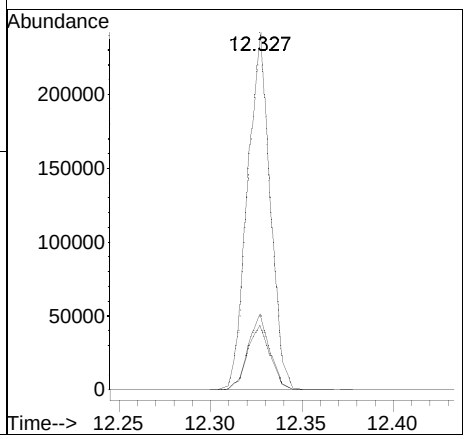


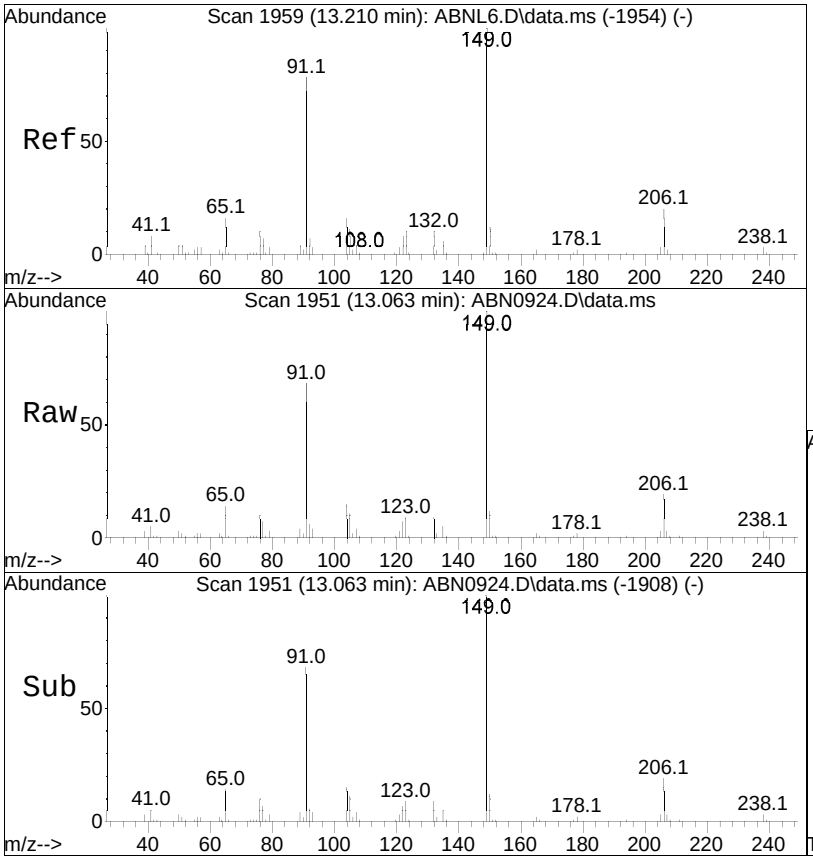


#95
Pyrene
Concen: 4.44 ug/ml
RT: 12.327 min Scan# 1826
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:202 Resp: 205878

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.7	25.1
203	18.3	14.2	21.4

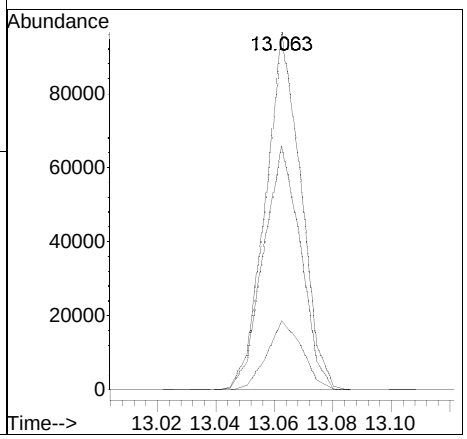


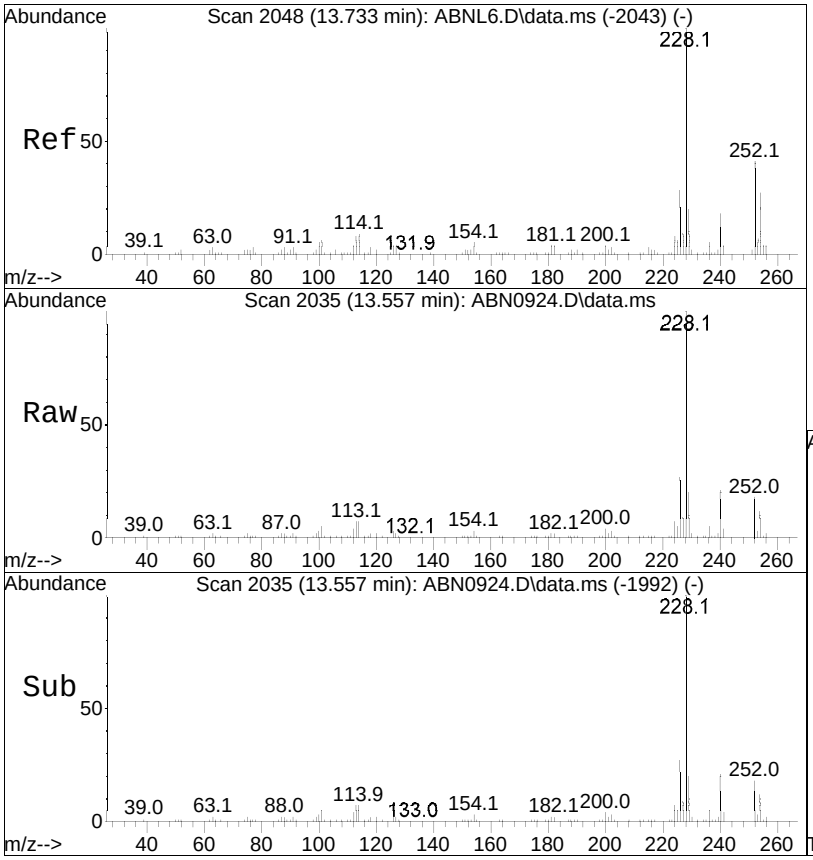


#97
Butyl benzyl phthalate
Concen: 4.55 ug/ml
RT: 13.063 min Scan# 1951
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:149 Resp: 80532

Ion	Ratio	Lower	Upper
149	100		
91	71.5	63.3	94.9
206	19.4	13.9	20.9

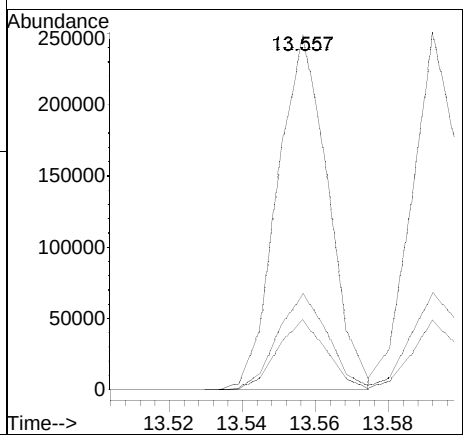


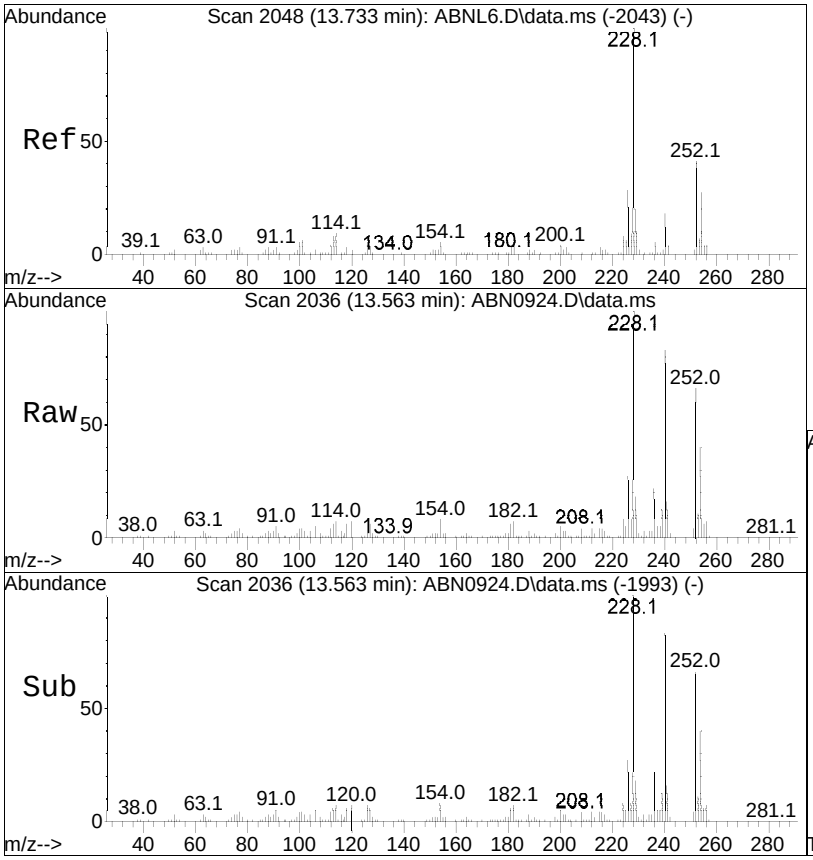


#105
Benzo(a)anthracene
Concen: 4.43 ug/ml
RT: 13.557 min Scan# 2035
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:228 Resp: 239737

Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.2	33.4
229	19.2	15.6	23.4

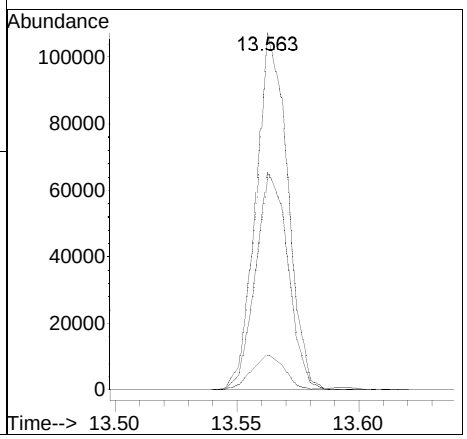


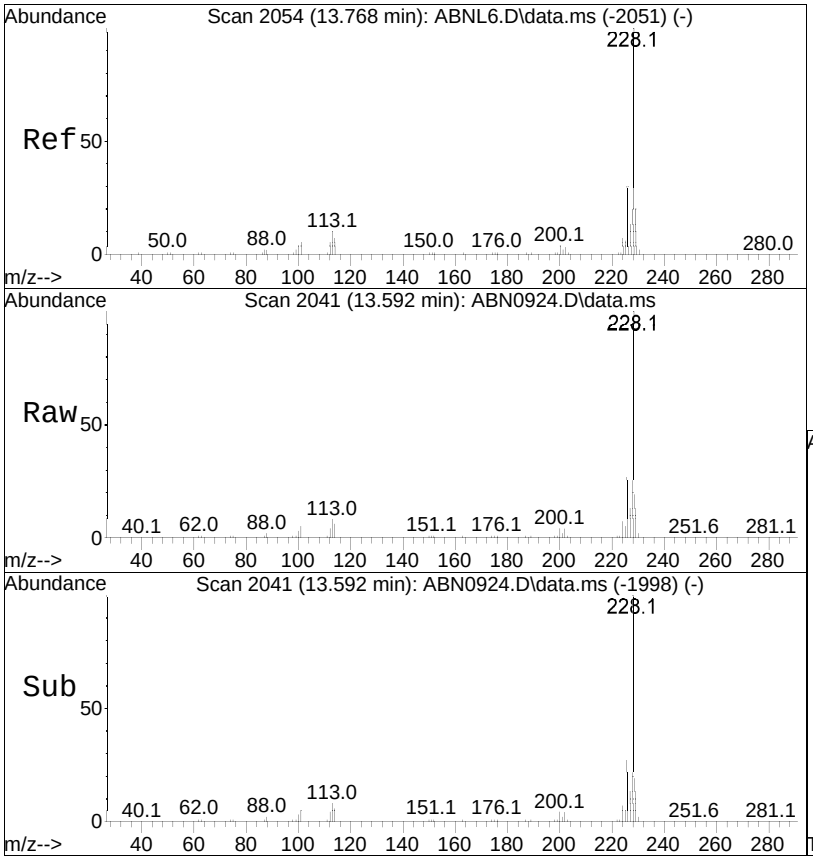


#106
3,3'-Dichlorobenzidine
Concen: 5.39 ug/ml
RT: 13.563 min Scan# 2036
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:252 Resp: 96497

Ion	Ratio	Lower	Upper
252	100		
126	10.5	14.5	21.7#
254	62.7	51.2	76.8

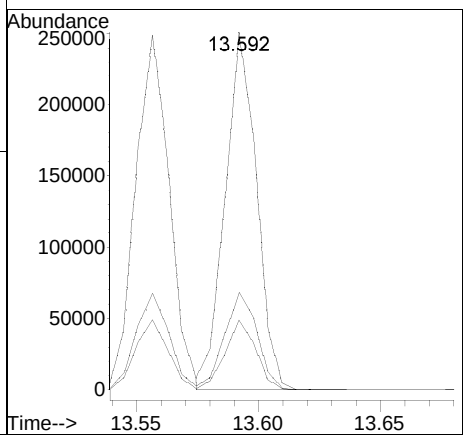


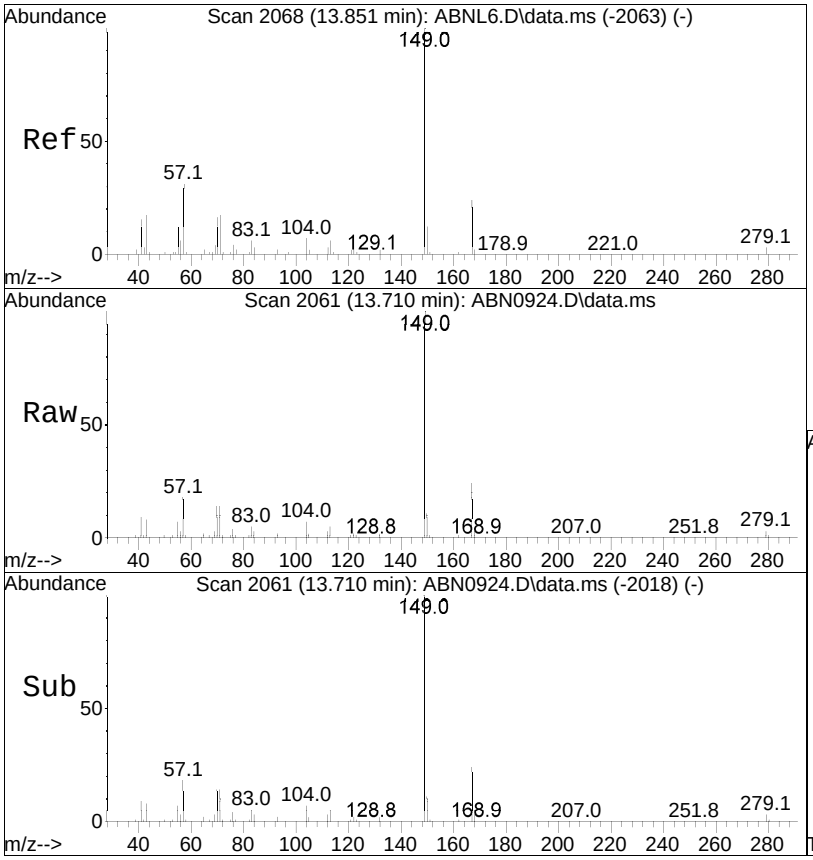


#107
Chrysene
Concen: 4.30 ug/ml
RT: 13.592 min Scan# 2041
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:228 Resp: 224643

Ion	Ratio	Lower	Upper
228	100		
226	28.3	24.0	36.0
229	19.1	15.8	23.8

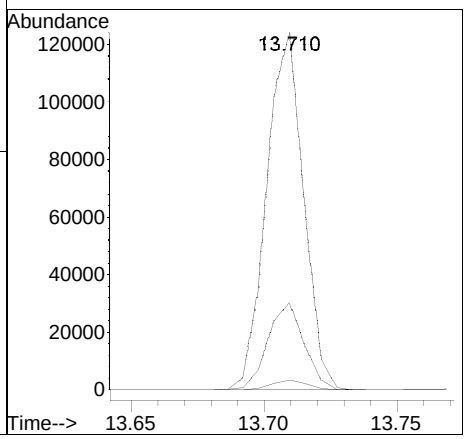


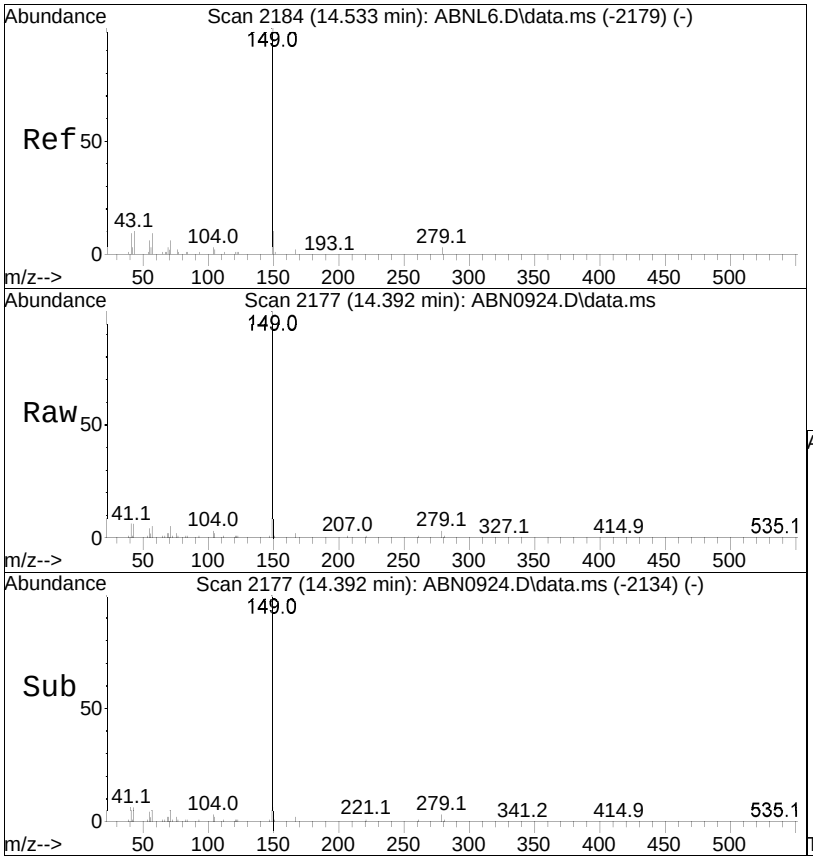


#108
Bis(2-ethylhexyl)phthalate
Concen: 3.97 ug/ml
RT: 13.710 min Scan# 2061
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:149 Resp: 118590

Ion	Ratio	Lower	Upper
149	100		
167	24.0	22.1	33.1
279	2.8	3.0	4.4#

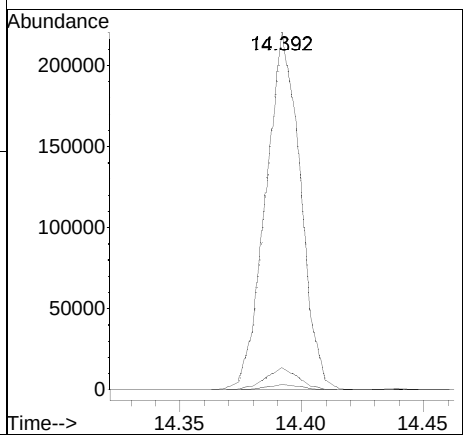


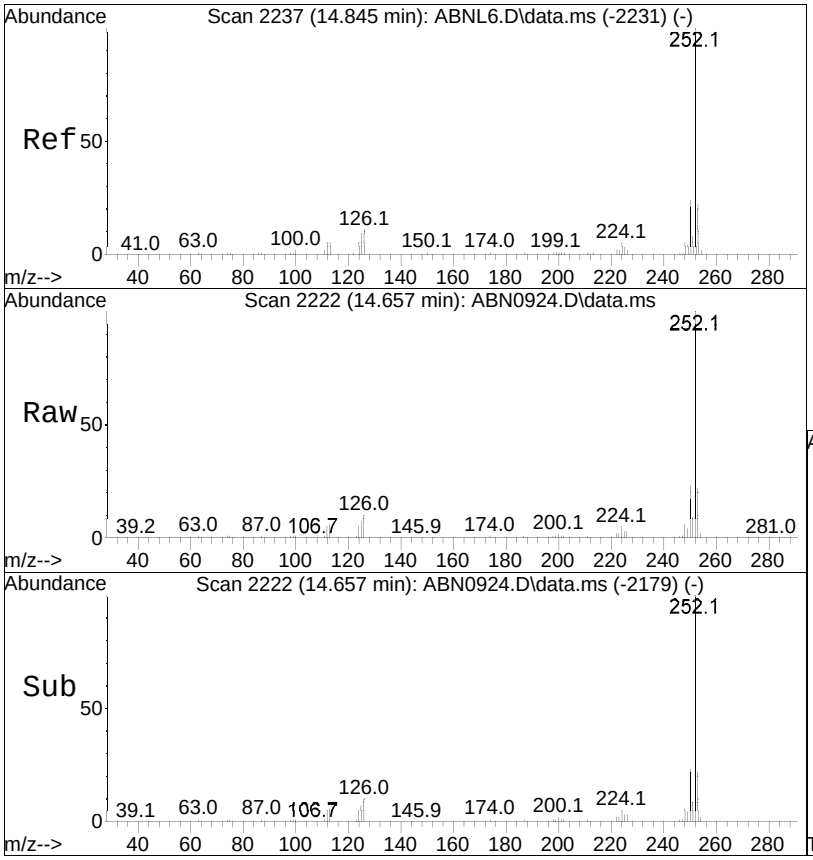


#109
Di-n-octylphthalate
Concen: 4.35 ug/ml
RT: 14.392 min Scan# 2177
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:149 Resp: 215387

Ion	Ratio	Lower	Upper
149	100		
43	6.0	18.8	28.2#
167	1.4	1.3	1.9

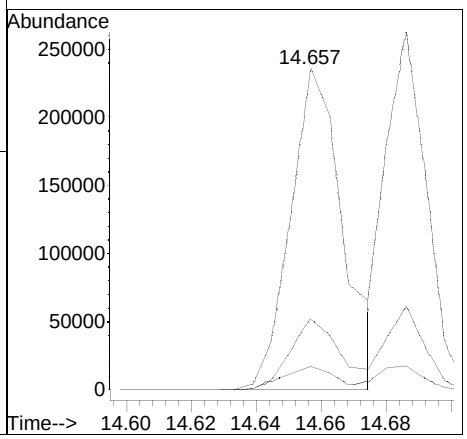


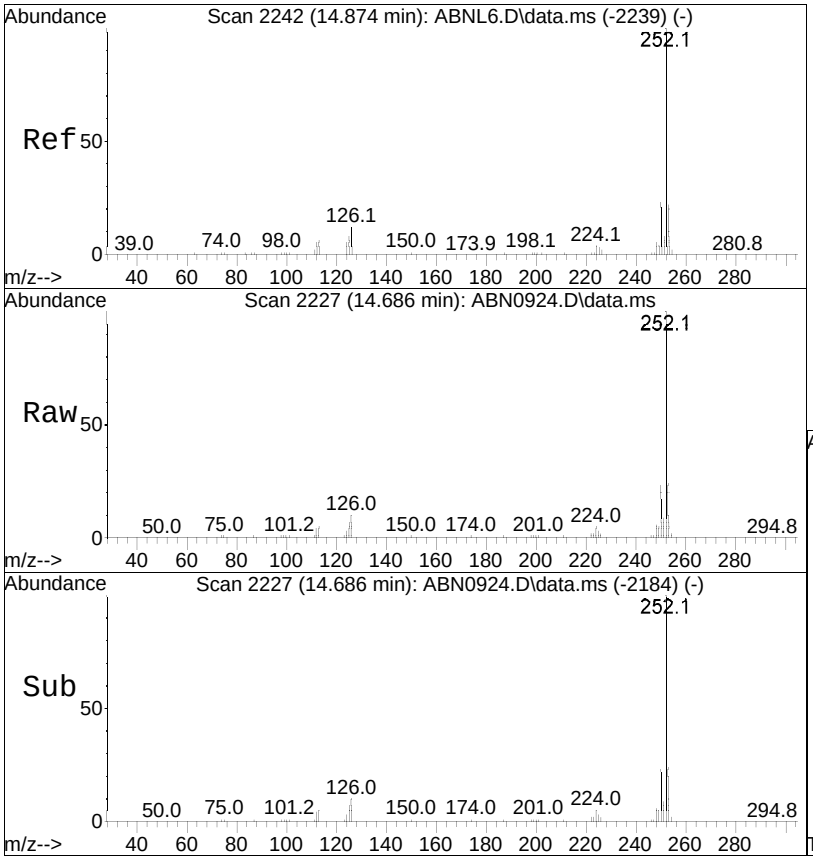


#110
Benzo(b)fluoranthene
Concen: 5.07 ug/ml
RT: 14.657 min Scan# 2222
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:252 Resp: 265219

Ion	Ratio	Lower	Upper
252	100		
125	7.1	13.3	19.9#
253	21.7	17.1	25.7

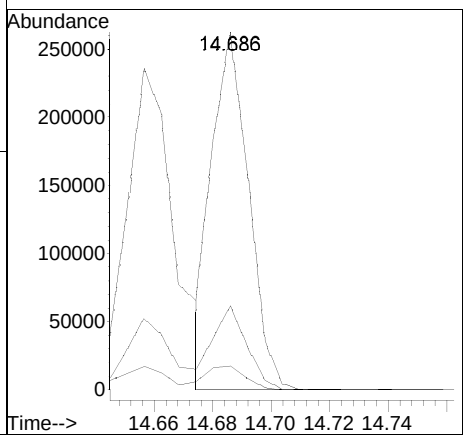


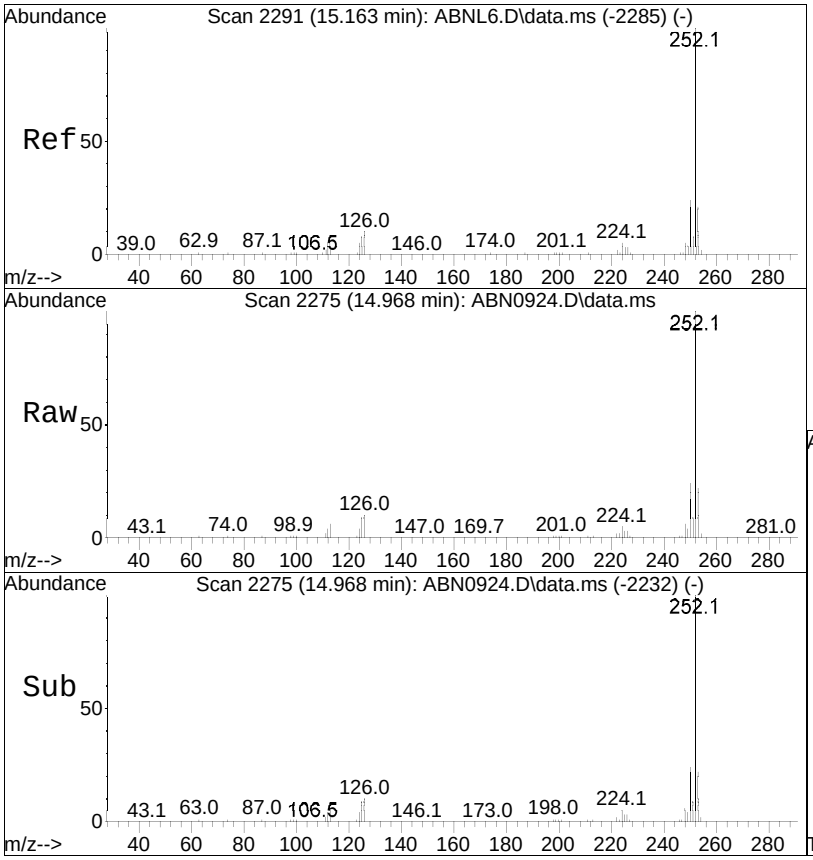


#111
Benzo(k)fluoranthene
Concen: 4.58 ug/ml
RT: 14.686 min Scan# 2227
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:252 Resp: 227398

Ion	Ratio	Lower	Upper
252	100		
125	7.7	13.0	19.6#
253	21.7	16.8	25.2

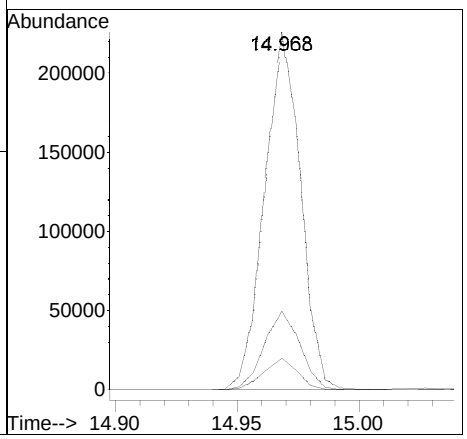


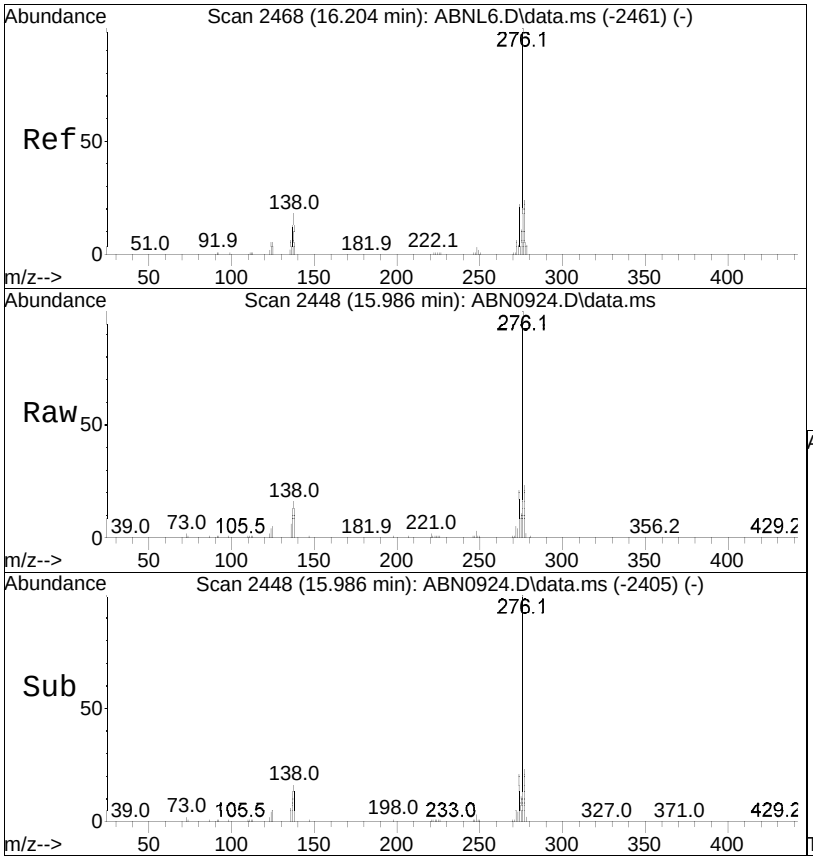


#112
Benzo(a)pyrene
Concen: 5.06 ug/ml
RT: 14.968 min Scan# 2275
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:252 Resp: 229727

Ion	Ratio	Lower	Upper
252	100		
125	8.5	14.2	21.2#
253	22.3	16.9	25.3

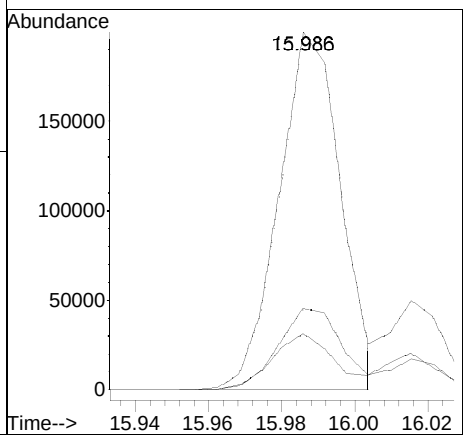


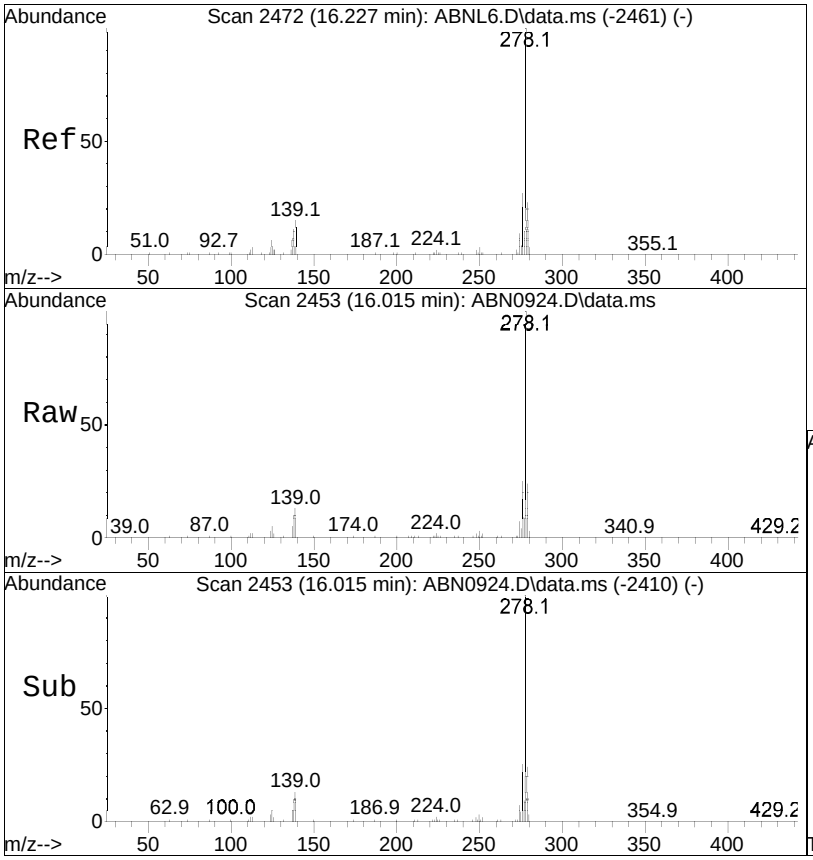


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.05 ug/mL M6
RT: 15.986 min Scan# 2448
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:276 Resp: 234049

Ion	Ratio	Lower	Upper
276	100		
138	16.2	25.1	37.7#
277	23.7	18.6	28.0

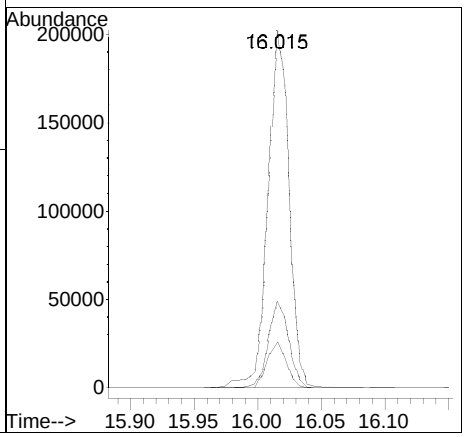


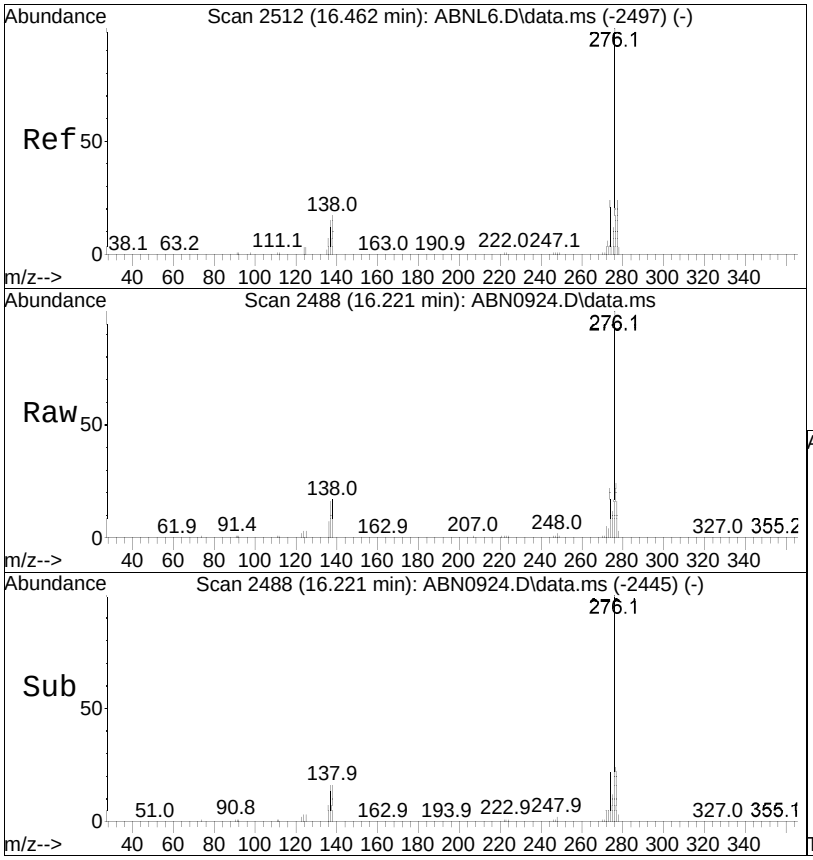


#115
Dibenzo(a,h)anthracene
Concen: 5.16 ug/ml
RT: 16.015 min Scan# 2453
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:278 Resp: 230164

Ion	Ratio	Lower	Upper
278	100		
139	11.8	20.8	31.2#
279	23.6	18.3	27.5

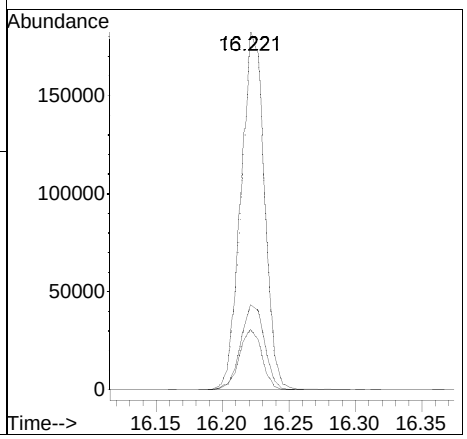




#116
Benzo(ghi)perylene
Concen: 5.37 ug/ml
RT: 16.221 min Scan# 2488
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 7:21 am

Tgt Ion:276 Resp: 221877

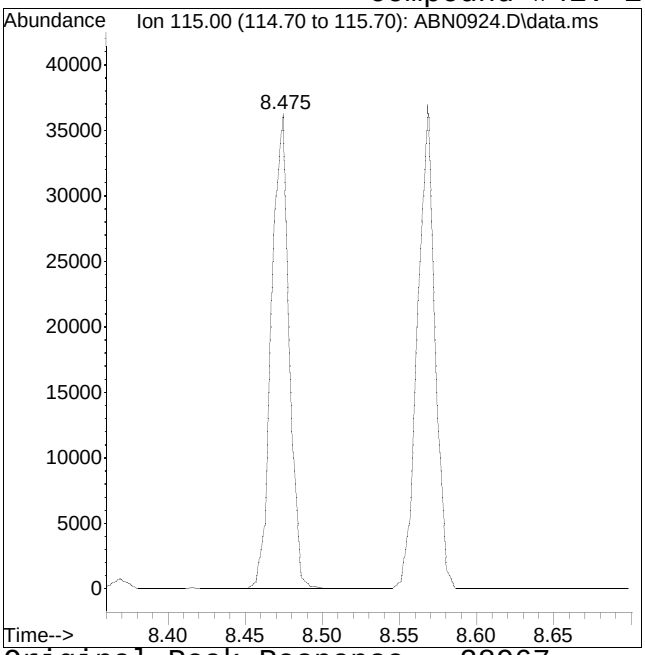
Ion	Ratio	Lower	Upper
276	100		
138	16.5	29.2	43.8#
277	24.2	18.8	28.2



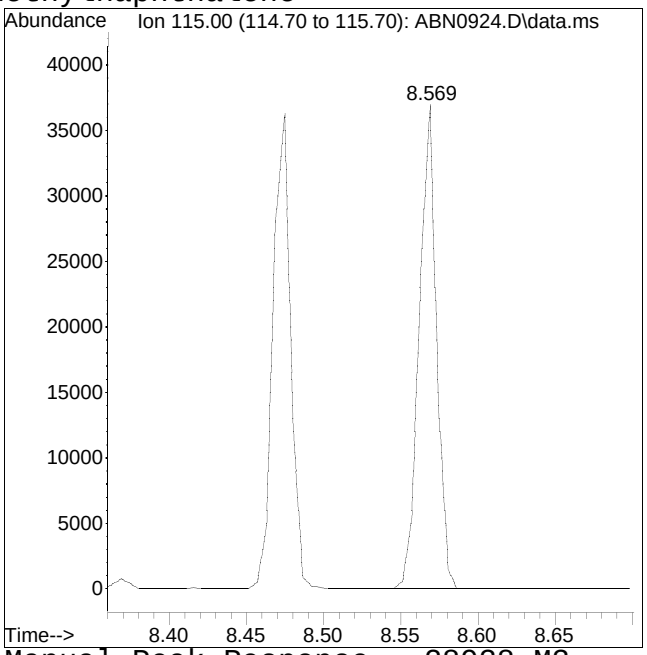
Manual Integration Report

Data Path : I:\8270\SV106\240924RVT\ QMethod : FS240624SV106.m
Data File : ABN0924.D Operator : SV106:smz
Date Inj'd : 9/24/2024 7:21 am Instrument : SV 106
Sample : wg1975455-3,32,,ABN 10908 Quant Date : 9/24/2024 8:21 am

Compound #42: 1-Methylnaphthalene



Original Peak Response = 28967



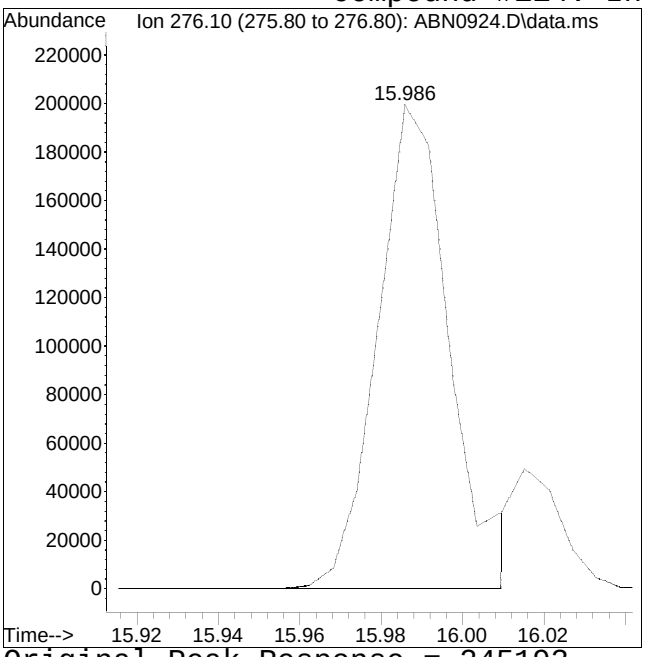
Manual Peak Response = 28938 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

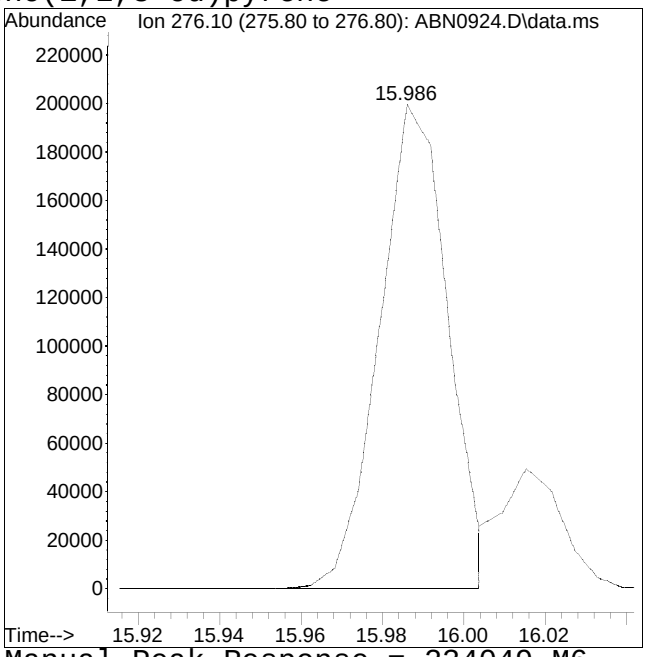
Manual Integration Report

Data Path : I:\8270\SV106\240924RVT\ QMethod : FS240624SV106.m
Data File : ABN0924.D Operator : SV106:smz
Date Inj'd : 9/24/2024 7:21 am Instrument : SV 106
Sample : wg1975455-3,32,,ABN 10908 Quant Date : 9/24/2024 8:21 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 245193



Manual Peak Response = 234049 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240924RVT\
Data File : AP90924.D
Acq On : 24 Sep 2024 7:45 am
Operator : SV106:smz
Sample : wg1975455-4,32,,AP9 10909 gmr0914A
Misc : wg1975455,,ical21231
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 24 08:22:53 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:23:47 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
28	T	Benzaldehyde	1.187	1.105	6.9	107	0.00
29	T	Acetophenone	2.158	1.974	8.5	105	0.00
30	T	m-Toluidine	1.957	1.737	11.2	102	0.00
31	T	2-Chloroaniline	1.709	1.556	9.0	105	0.00
55	I	IS2_Naphthalene-d8	1.000	1.000	0.0	114	0.00
56	T	a-Terpineol	0.400	0.219	45.3#	63	0.00
57	T	3-Chloroaniline	0.201	0.158	21.4#	91	0.00
58	T	2,6-Dichlorophenol	0.362	0.334	7.7	102	0.00
59	T	1-chloro-2-nitrobenzene	0.180	0.163	9.4	100	0.00
60	T	Caprolactam	0.210	0.103	51.0#	52	0.00
61	T	1,2,4,5-Tetrachlorobenzene	0.548	0.501	8.6	108	0.00
62	T	Biphenyl	1.084	0.937	13.6	101	0.00
83	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	126	0.00
84	T	Dichloran	0.247	0.233	5.7	112	0.00
85	T	Pentachloronitrobenzene	0.270	0.281	-4.1	122	0.00
98	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	112	0.00
99	T	Diphenamid	0.561	0.520	7.3	102	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : AP90924.D
Acq On : 24 Sep 2024 7:45 am
Operator : SV106:smz
Sample : wg1975455-4,32,,AP9 10909 gmr0914A
Misc : wg1975455,,ical21231
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 24 08:22:53 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:23:47 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.287	152	36467	4.000	ug/ml	0.00
55) IS2_Naphthalene-d8	7.728	136	130613	4.000	ug/ml	0.00
83) IS2_Acenaphthene-d10	9.492	164	92349	4.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	10.933	188	193366	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.698	105	50349	4.651	ug/ml	95
29) Acetophenone	6.798	105	89973	4.573	ug/ml#	72
30) m-Toluidine	6.898	106	79198	4.439	ug/ml	99
31) 2-Chloroaniline	7.304	127	70924	4.551	ug/ml	96
56) a-Terpineol	7.810	59	35755	2.737	ug/ml#	40
57) 3-Chloroaniline	7.822	65	25870	3.948	ug/ml	87
58) 2,6-Dichlorophenol	7.845	162	54492	4.614	ug/ml	98
59) 1-chloro-2-nitrobenzene	8.116	111	26540	4.510	ug/ml#	1
60) Caprolactam	8.157	55	16827	2.454	ug/ml#	4
61) 1,2,4,5-Tetrachloroben...	8.645	216	81734	4.564	ug/ml#	97
62) Biphenyl	8.951	154	152963	4.321	ug/ml	99
84) Dichloran	10.633	206	26888	4.713	ug/ml#	66
85) Pentachloronitrobenzene	10.774	237	32415	5.198	ug/ml#	74
99) Diphenamid	11.857	167	125777	4.635	ug/ml#	76

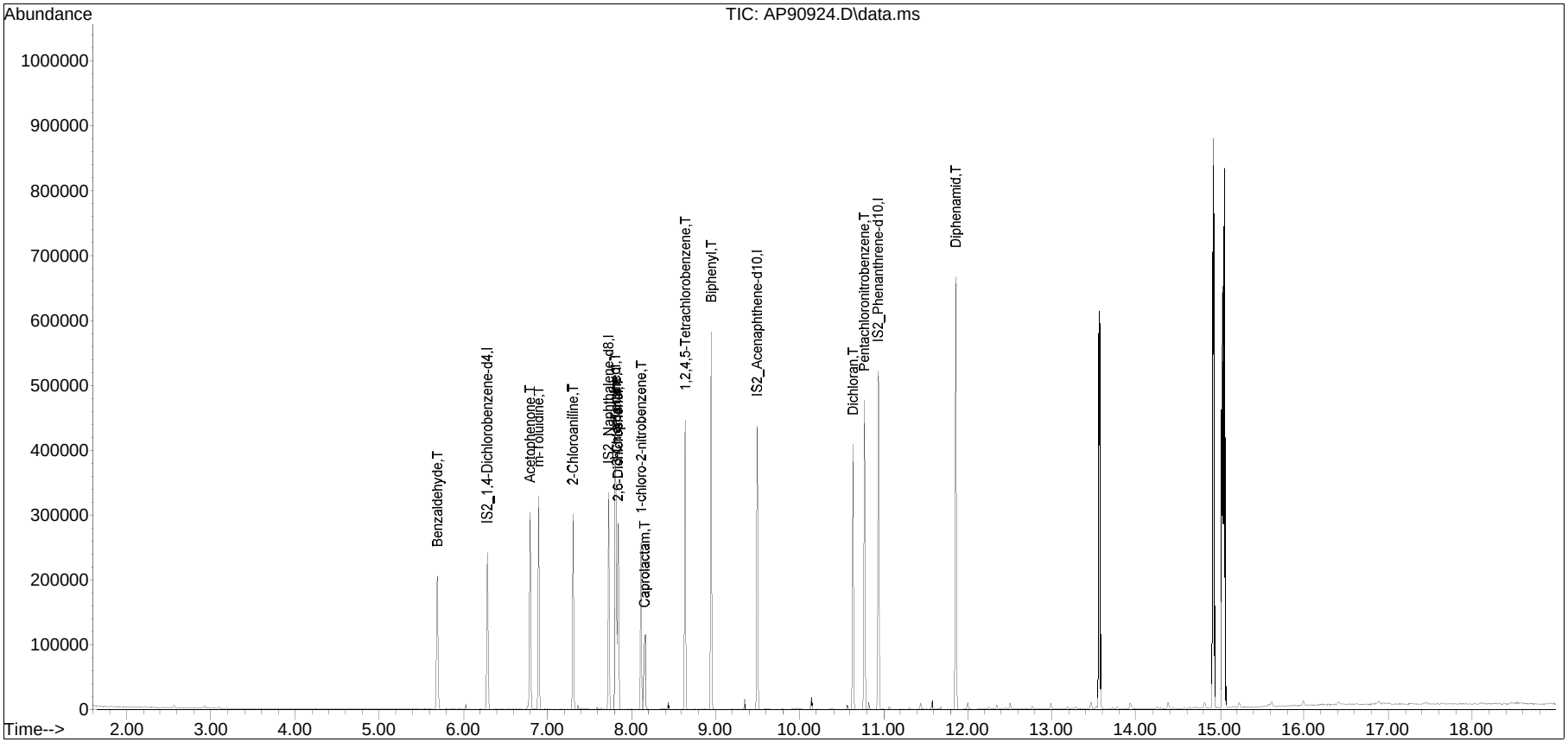
(#) = qualifier out of range (m) = manual integration (+) = signals summed

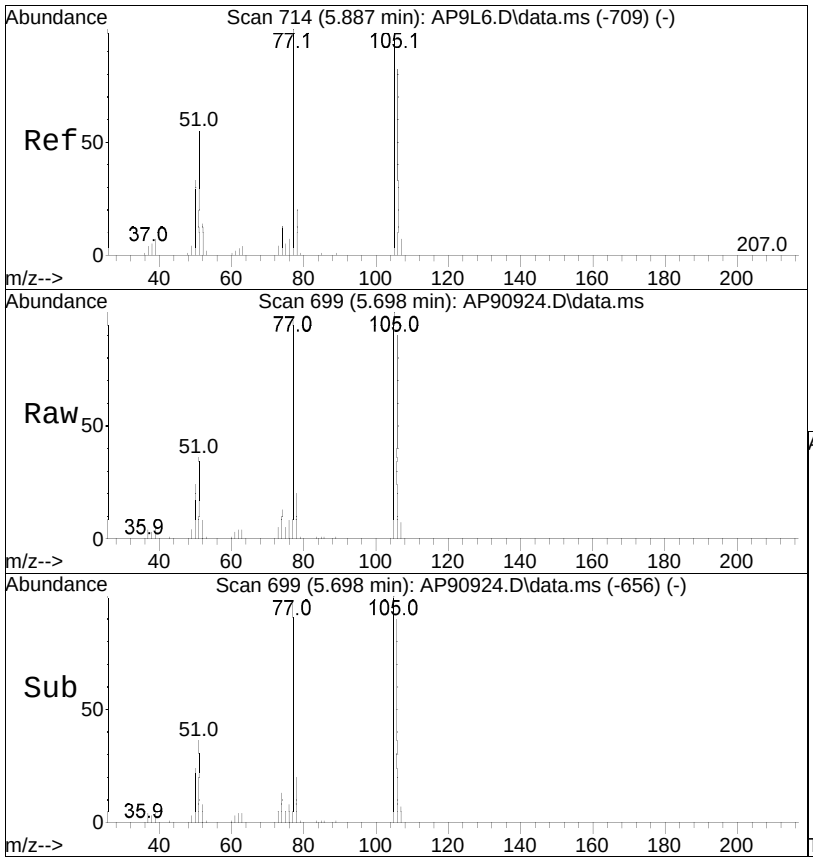
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : AP90924.D
Acq On : 24 Sep 2024 7:45 am
Operator : SV106:smz
Sample : wg1975455-4,32,,AP9 10909 gmr0914A
Misc : wg1975455,,ical21231
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 24 08:22:53 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:23:47 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

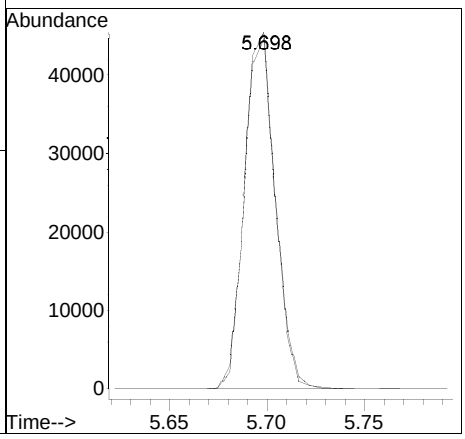


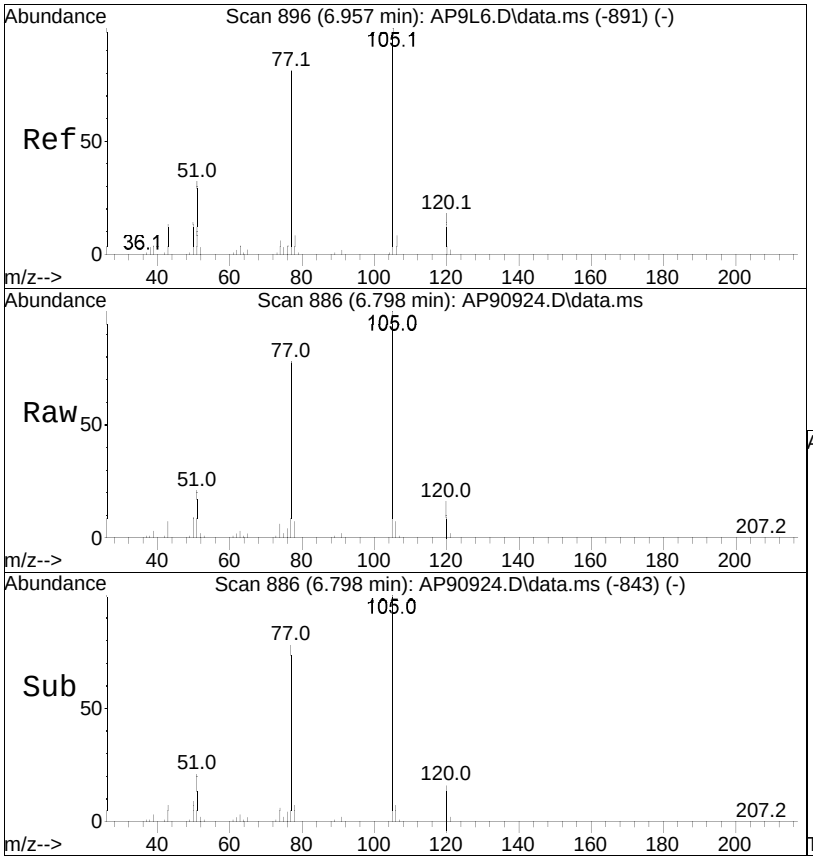


#28
Benzaldehyde
Concen: 4.65 ug/ml
RT: 5.698 min Scan# 699
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:105 Resp: 50349

Ion	Ratio	Lower	Upper
105	100		
77	97.7	82.2	123.4

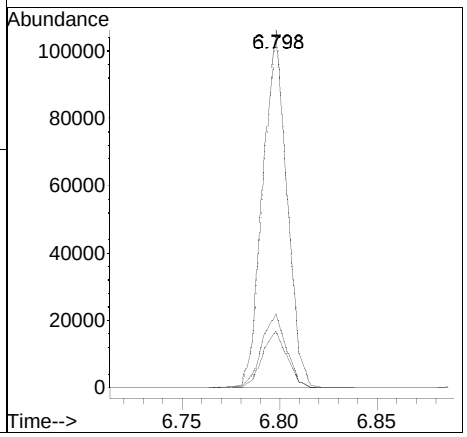


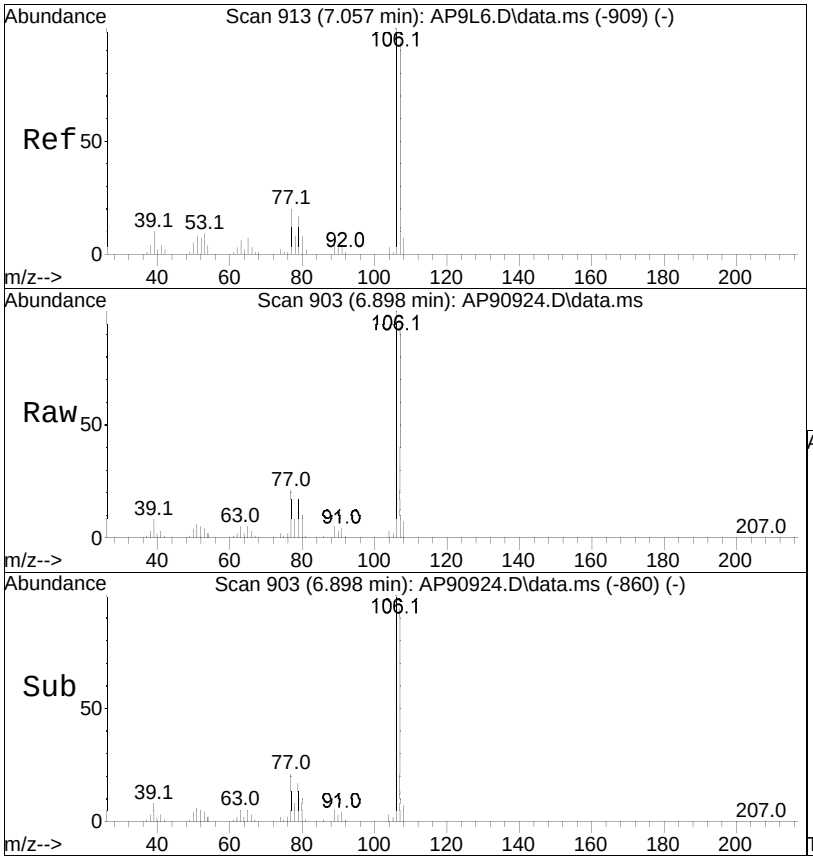


#29
Acetophenone
Concen: 4.57 ug/ml
RT: 6.798 min Scan# 886
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:105 Resp: 89973

Ion	Ratio	Lower	Upper
105	100		
120	16.3	20.5	30.7#
51	21.7	34.9	52.3#

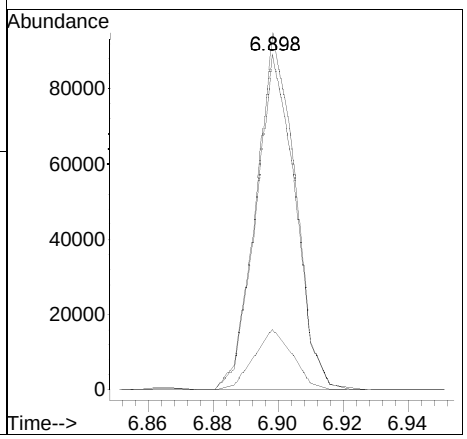


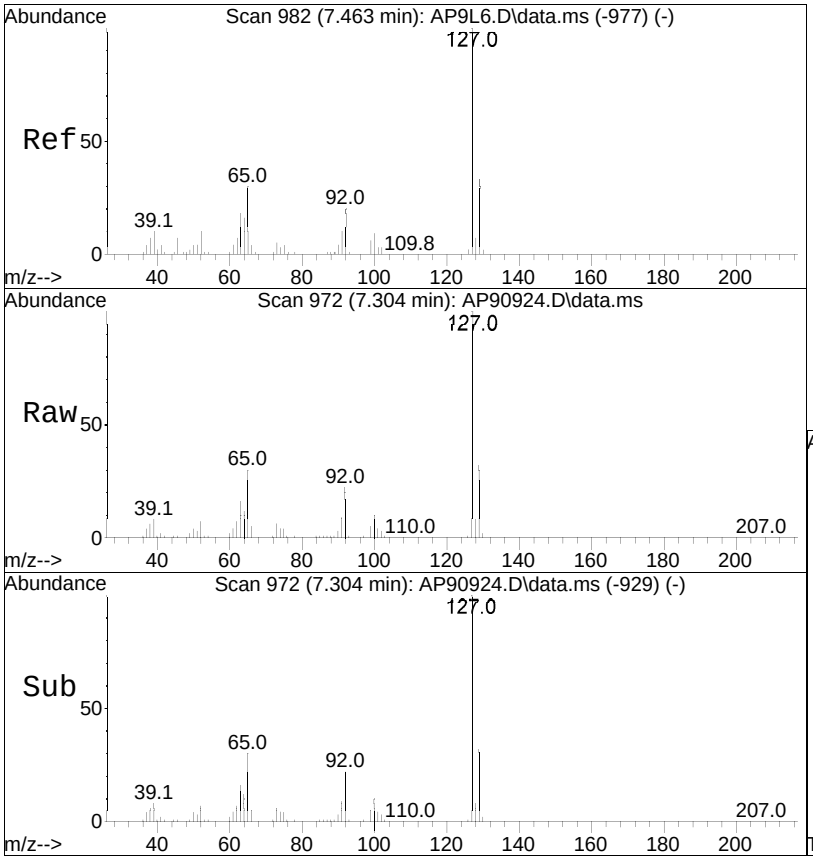


#30
m-Toluidine
Concen: 4.44 ug/ml
RT: 6.898 min Scan# 903
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:106 Resp: 79198

Ion	Ratio	Lower	Upper
106	100		
107	94.2	75.7	113.5
79	16.8	11.8	17.8

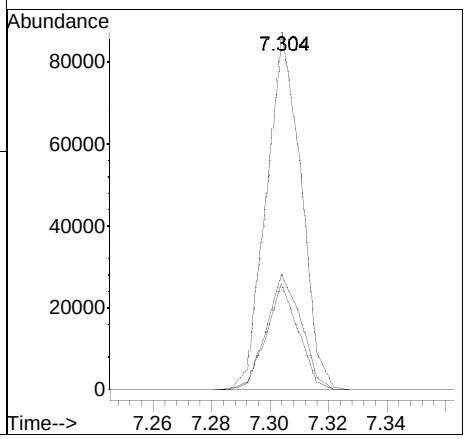


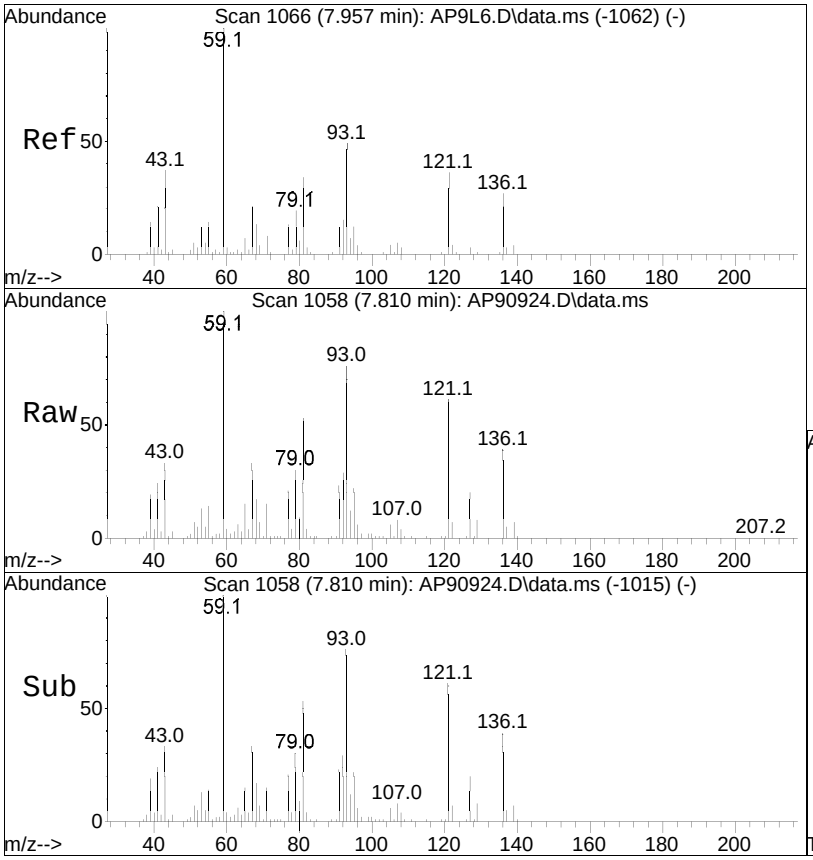


#31
2-Chloroaniline
Concen: 4.55 ug/ml
RT: 7.304 min Scan# 972
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:127 Resp: 70924

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.9	38.9
65	28.0	26.3	39.5

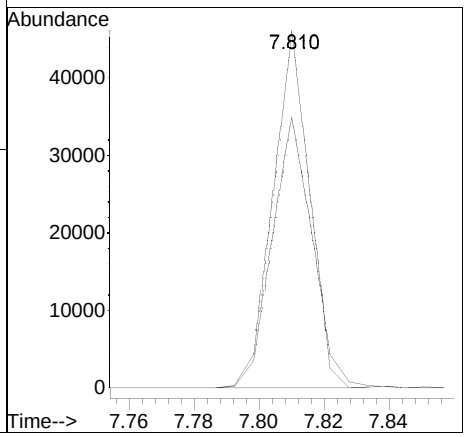


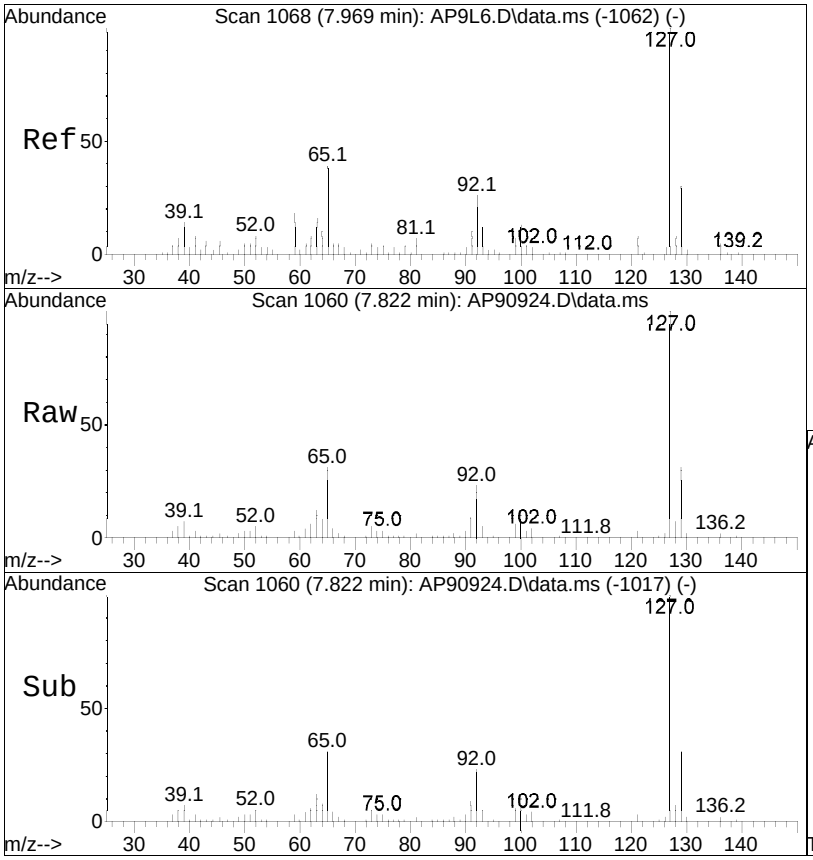


#56
a-Terpineol
Concen: 2.74 ug/ml
RT: 7.810 min Scan# 1058
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion: 59 Resp: 35755

Ion	Ratio	Lower	Upper
59	100		
93	83.5	35.6	53.4#

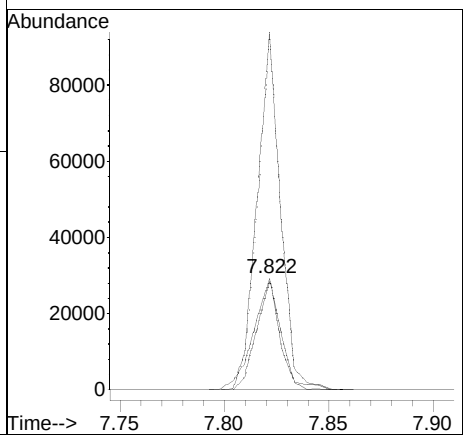


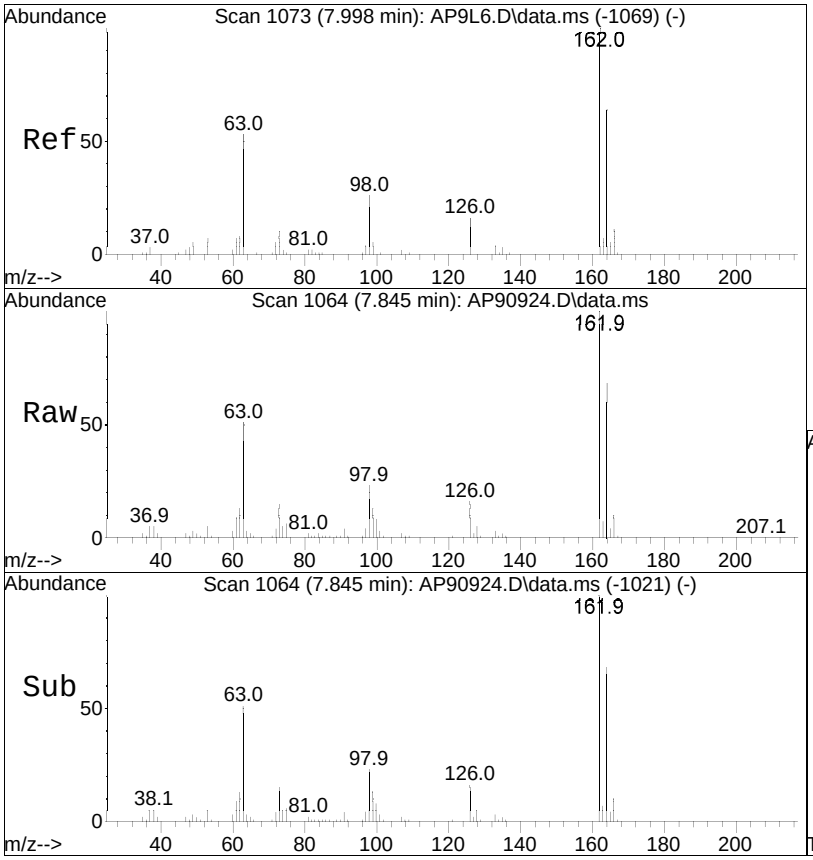


#57
3-Chloroaniline
Concen: 3.95 ug/ml
RT: 7.822 min Scan# 1060
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion: 65 Resp: 25870

Ion	Ratio	Lower	Upper
65	100		
127	276.6	243.2	364.8
129	88.6	78.8	118.2

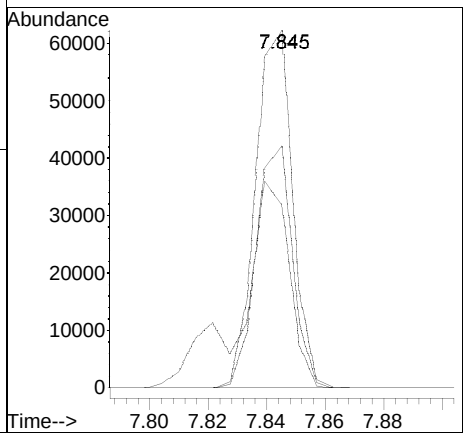


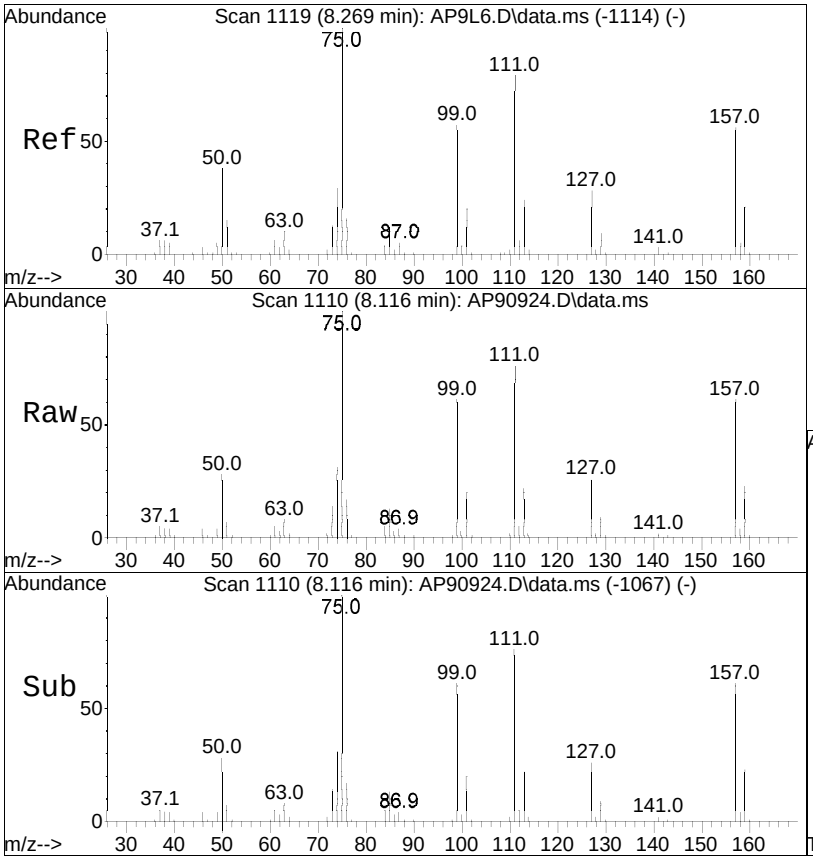


#58
2,6-Dichlorophenol
Concen: 4.61 ug/ml
RT: 7.845 min Scan# 1064
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:162 Resp: 54492

Ion	Ratio	Lower	Upper
162	100		
164	66.7	51.1	76.7
63	75.6	60.8	91.2

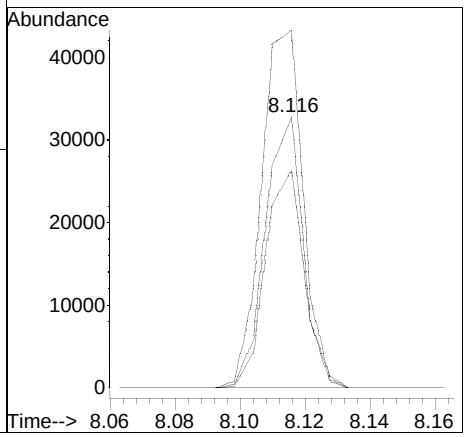


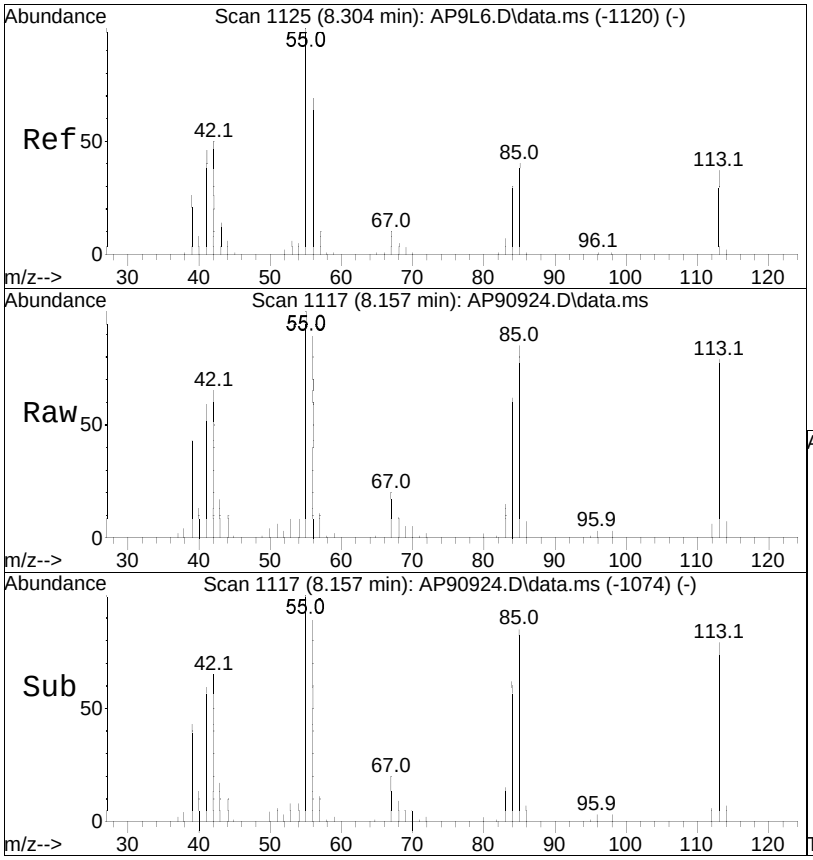


#59
1-chloro-2-nitrobenzene
Concen: 4.51 ug/ml
RT: 8.116 min Scan# 1110
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:111 Resp: 26540

Ion	Ratio	Lower	Upper
111	100		
157	81.7	0.0	0.0#
75	144.0	28.2	42.2#

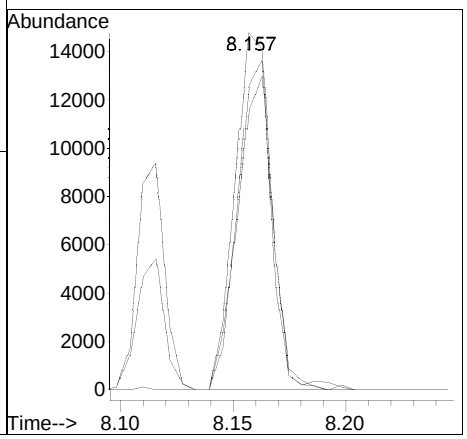


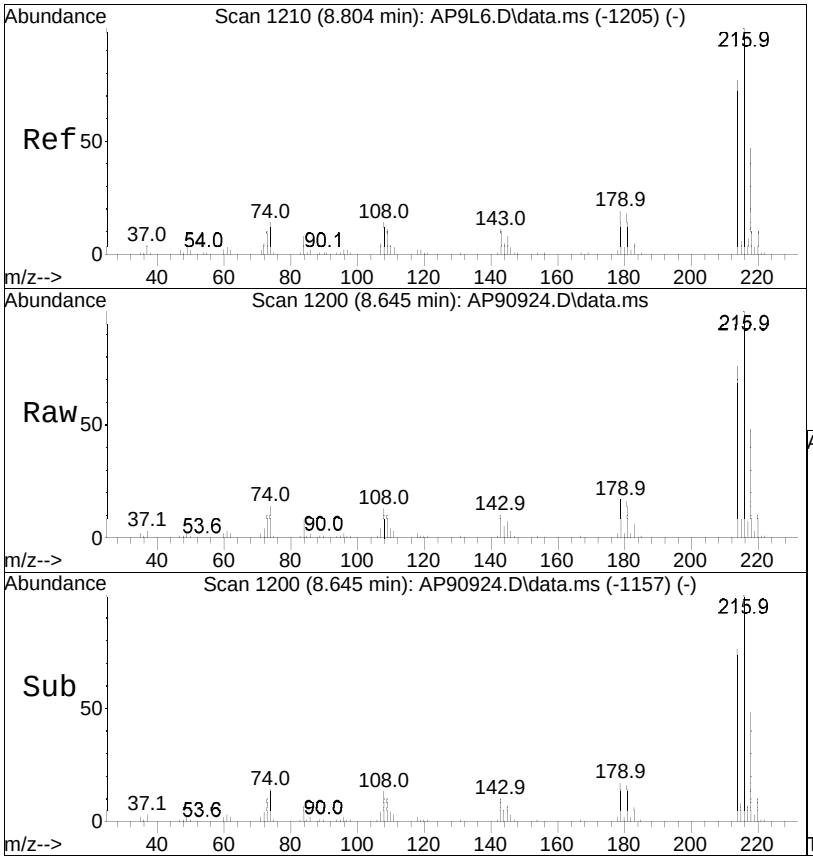


#60
Caprolactam
Concen: 2.45 ug/ml
RT: 8.157 min Scan# 1117
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion: 55 Resp: 16827

Ion	Ratio	Lower	Upper
55	100		
85	84.5	19.8	29.6#
113	84.7	29.6	44.4#

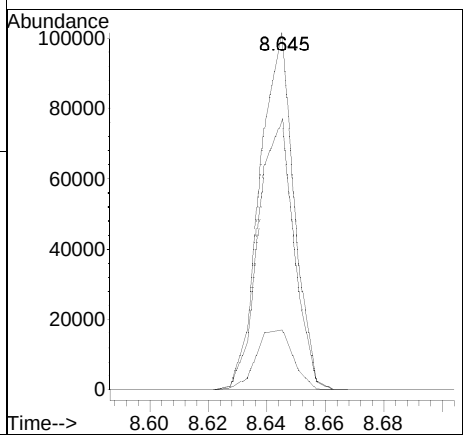


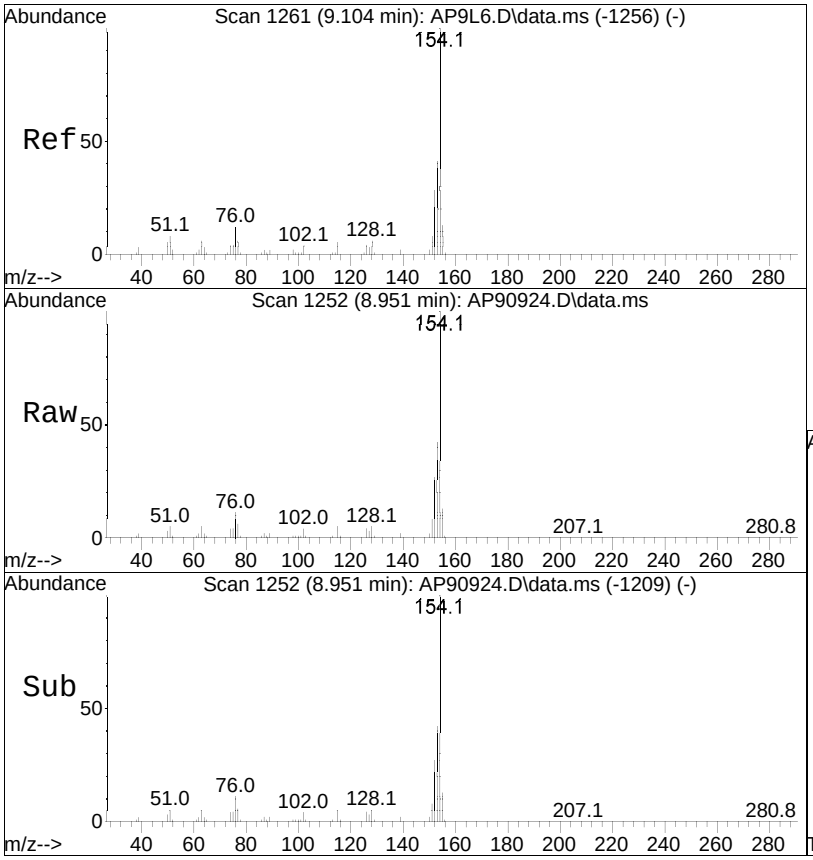


#61
1,2,4,5-Tetrachlorobenzene
Concen: 4.56 ug/ml
RT: 8.645 min Scan# 1200
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:216 Resp: 81734

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.7	95.5
179	18.4	19.0	28.6#

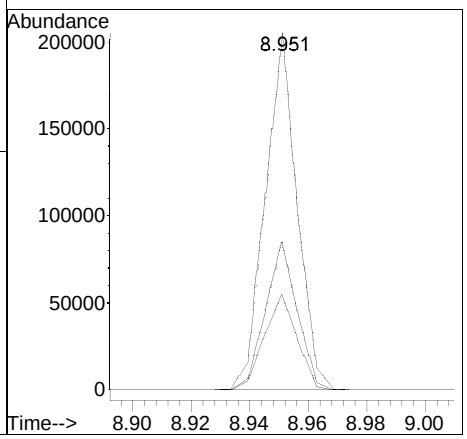


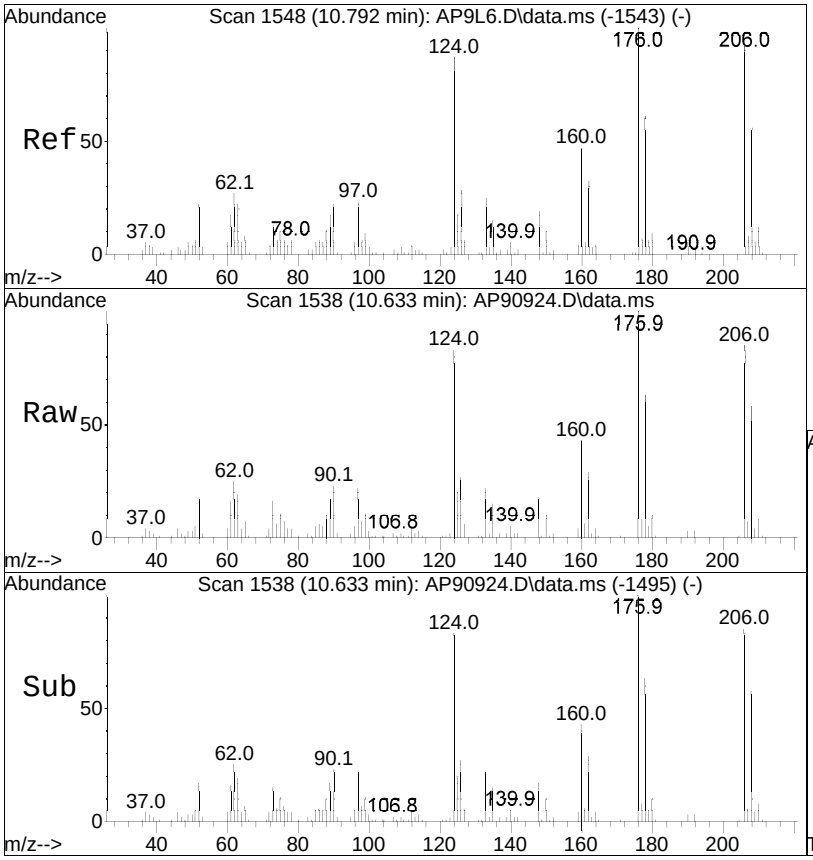


#62
Biphenyl
Concen: 4.32 ug/ml
RT: 8.951 min Scan# 1252
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:154 Resp: 152963

Ion	Ratio	Lower	Upper
154	100		
153	41.7	32.3	48.5
152	27.9	22.5	33.7

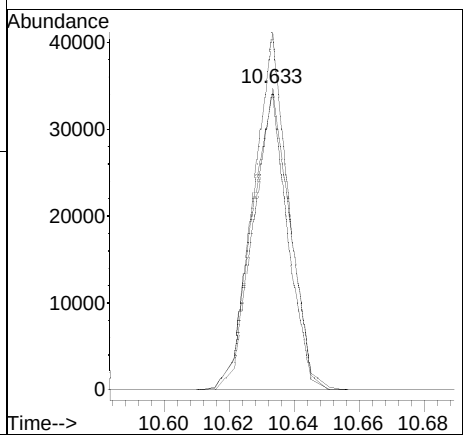


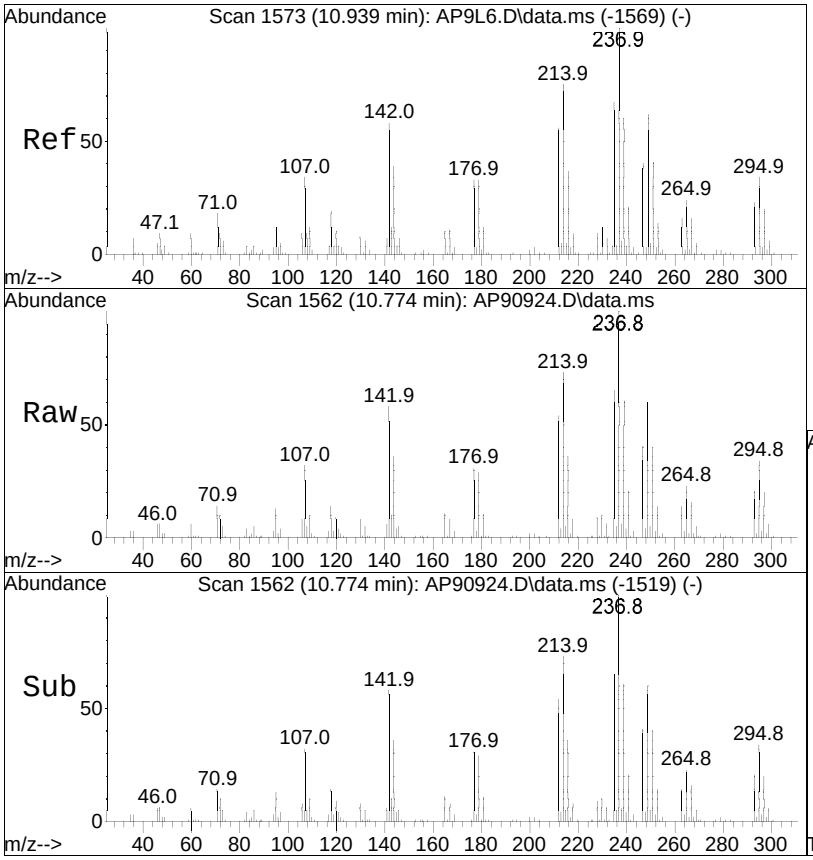


#84
Dichloran
Concen: 4.71 ug/ml
RT: 10.633 min Scan# 1538
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:206 Resp: 26888

Ion	Ratio	Lower	Upper
206	100		
176	113.9	104.6	157.0
124	97.5	130.5	195.7#

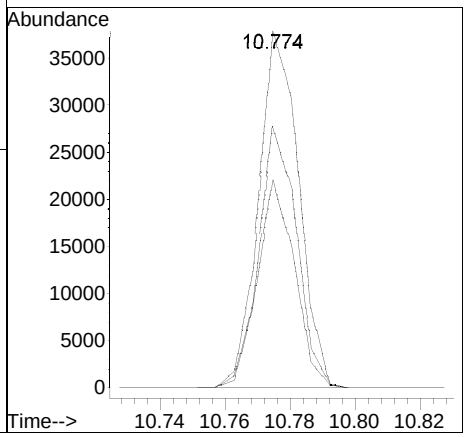


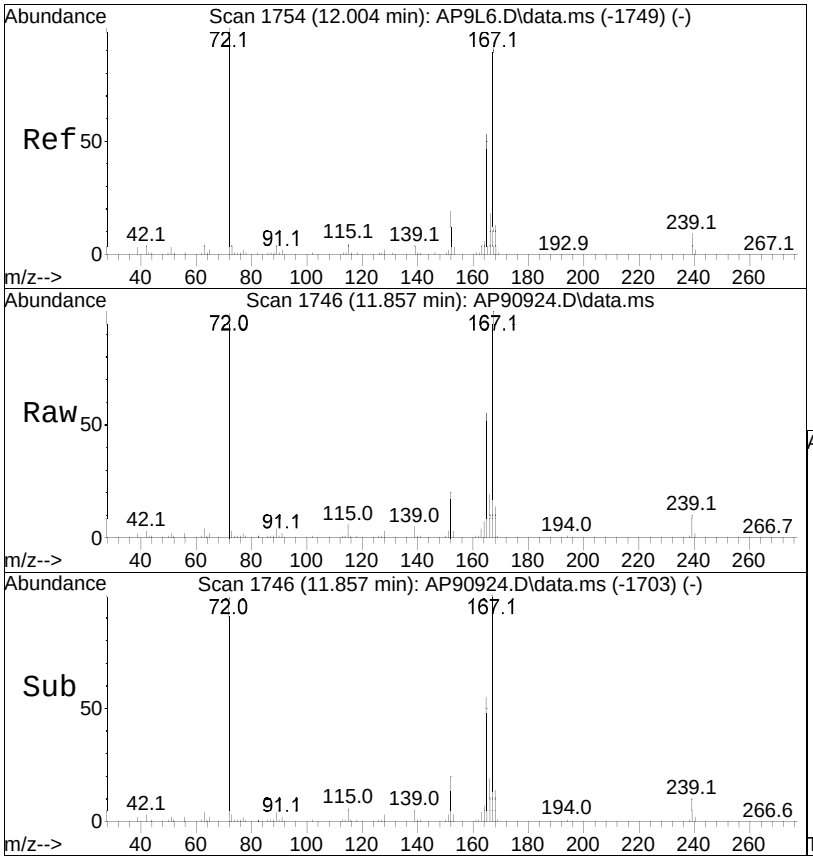


#85
Pentachloronitrobenzene
Concen: 5.20 ug/ml
RT: 10.774 min Scan# 1562
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:237 Resp: 32415

Ion	Ratio	Lower	Upper
237	100		
142	54.3	77.0	115.4#
214	69.7	58.2	87.4

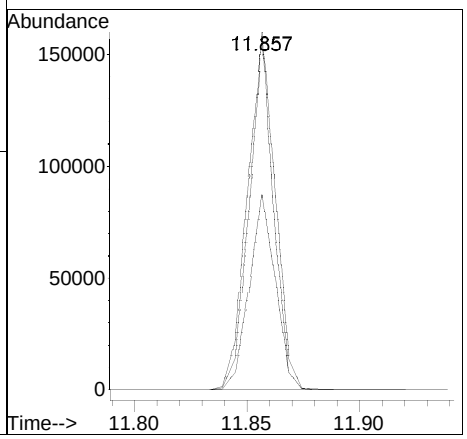




#99
Diphenamid
Concen: 4.64 ug/ml
RT: 11.857 min Scan# 1746
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 7:45 am

Tgt Ion:167 Resp: 125777

Ion	Ratio	Lower	Upper
167	100		
72	99.3	109.7	164.5#
165	55.8	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\240924RVT\	QMethod	: FS240624SV106.m
Data File	: AP90924.D	Operator	: SV106:smz
Date Inj'd	: 9/24/2024 7:45 am	Instrument	: SV 106
Sample	: wg1975455-4,32,,AP9 10909	Quant Date	: 9/24/2024 8:23 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\240924RVT\
Data File : ADP0924.D
Acq On : 24 Sep 2024 8:09 am
Operator : SV106:smz
Sample : wg1975455-5,32,,ADP 10751 gmr0914A
Misc : wg1975455,,ical21231
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 24 08:30:15 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:31:10 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.00
33	t	1,4-Dioxane	0.584	0.518	11.3	80	0.00
34	T	n-Decane	1.662	0.929	44.1#	46#	0.00
86	I	IS3_Acenaphthene-d10	1.000	1.000	0.0	80	0.00
87	T	Atrazine	0.509	0.503	1.2	87	0.00
100	I	IS3_Phenanthrene-d10	1.000	1.000	0.0	74	0.00
101	T	n-Octadecane	0.498	0.259	48.0#	41#	0.00
102	T	Parathion	0.124	0.130	-4.8	84	0.00
103	T	3,3'-Dimethylbenzidine	0.791	1.018	-28.7#	94	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : ADP0924.D
Acq On : 24 Sep 2024 8:09 am
Operator : SV106:smz
Sample : wg1975455-5,32,,ADP 10751 gmr0914A
Misc : wg1975455,,ical21231
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 24 08:30:15 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:31:10 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.287	152	24852	4.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	9.498	164	61204	4.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	10.939	188	132912	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.663	88	16104	4.435	ug/ml#	90
34) n-Decane	6.181	57	28849	2.794	ug/ml#	51
87) Atrazine	10.722	200	38495	4.946	ug/ml	95
101) n-Octadecane	10.933	57	43019	2.602	ug/ml#	1
102) Parathion	11.739	109	21525	5.217	ug/ml	93
103) 3,3'-Dimethylbenzidine	13.016	212	169140	6.438	ug/ml	99

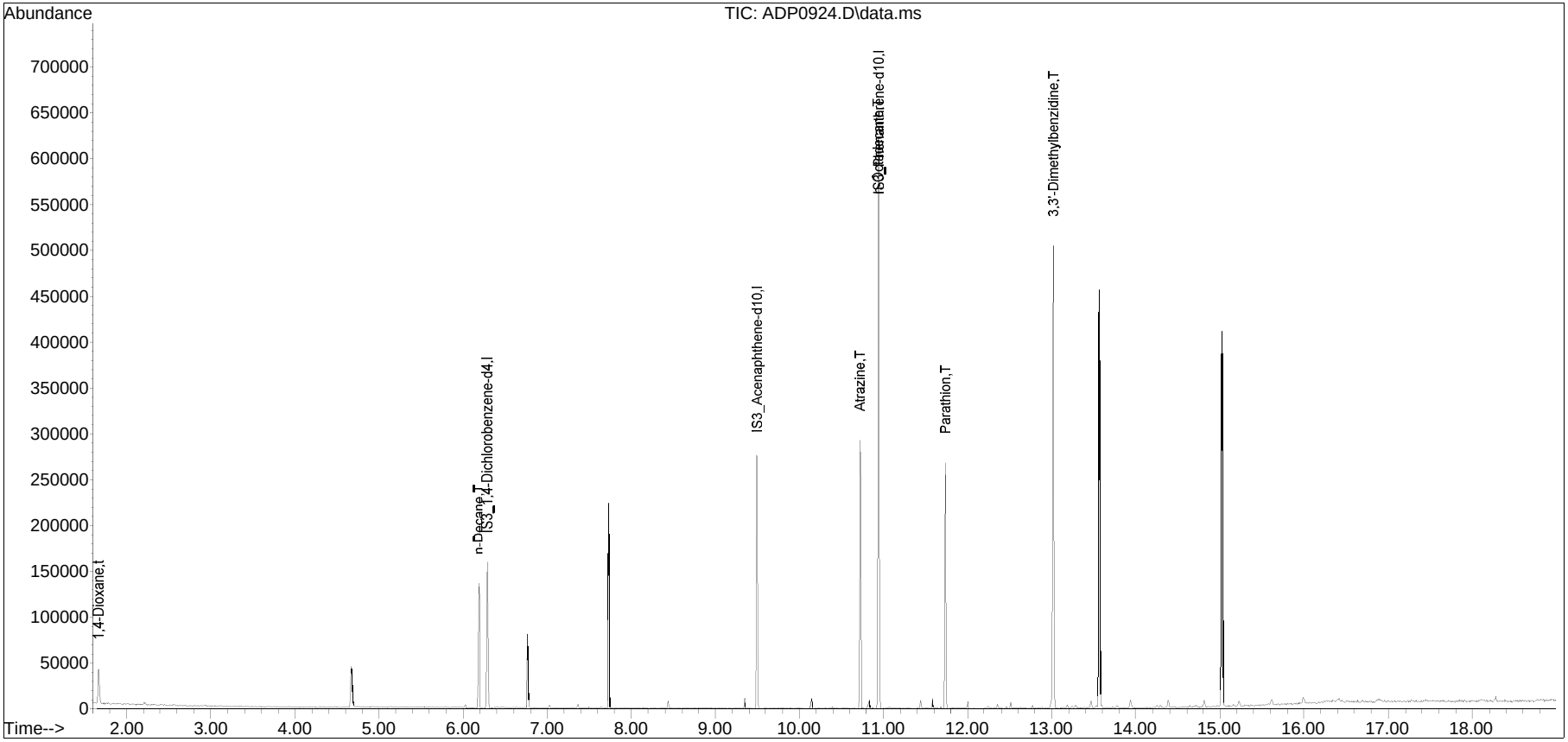
(#) = qualifier out of range (m) = manual integration (+) = signals summed

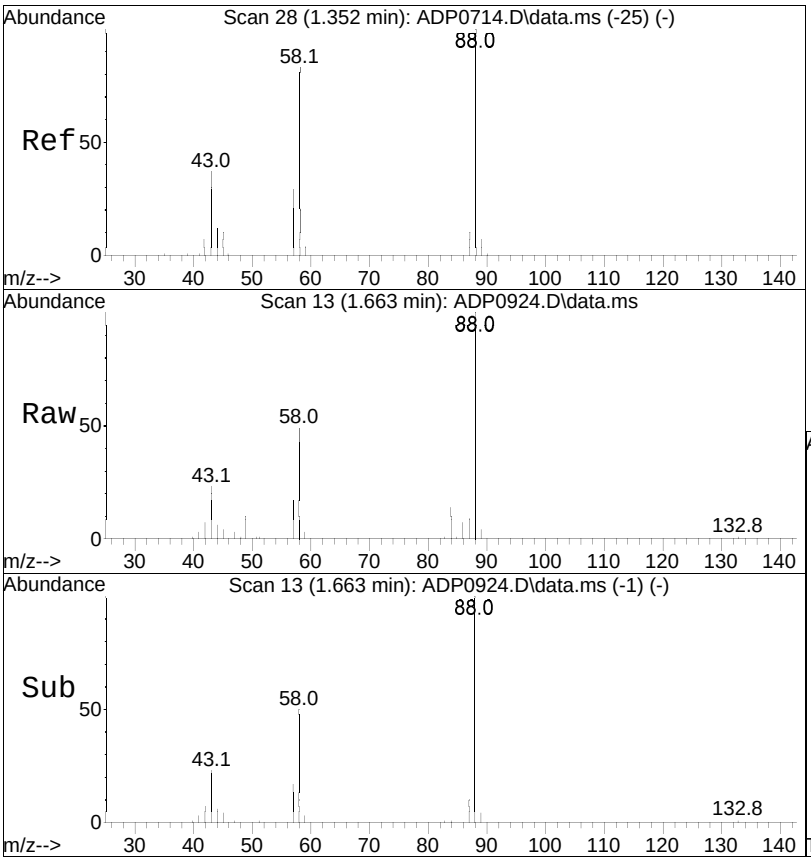
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : ADP0924.D
Acq On : 24 Sep 2024 8:09 am
Operator : SV106:smz
Sample : wg1975455-5,32,,ADP 10751 gmr0914A
Misc : wg1975455,,ical21231
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 24 08:30:15 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:31:10 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

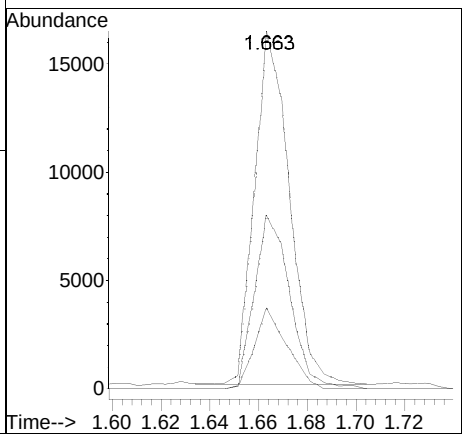


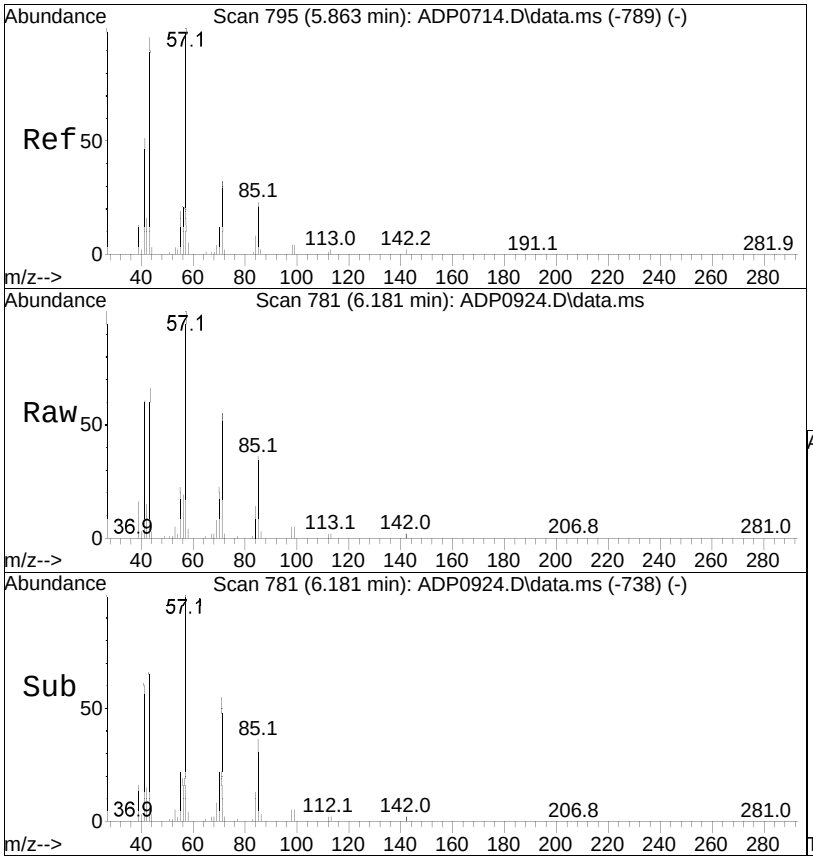


#33
1,4-Dioxane
Concen: 4.43 ug/ml
RT: 1.663 min Scan# 13
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 8:09 am

Tgt Ion: 88 Resp: 16104

Ion	Ratio	Lower	Upper
88	100		
58	49.9	44.8	67.2
43	21.3	22.4	33.6#

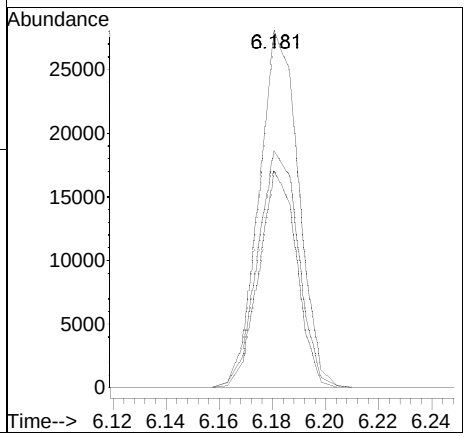


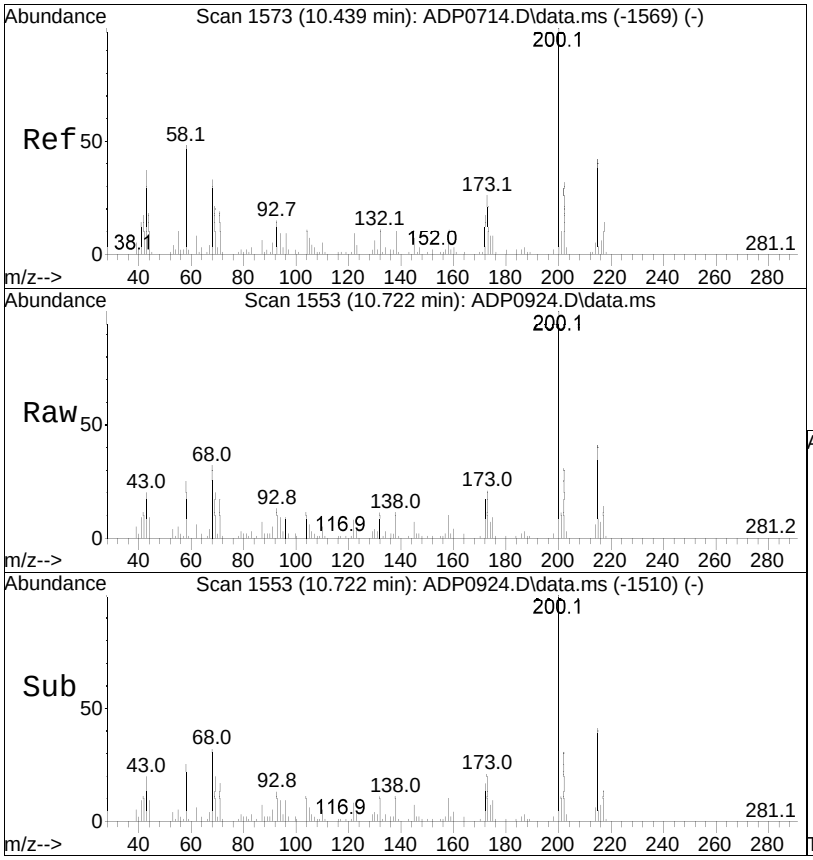


#34
n-Decane
Concen: 2.79 ug/ml
RT: 6.181 min Scan# 781
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 8:09 am

Tgt Ion: 57 Resp: 28849

Ion	Ratio	Lower	Upper
57	100		
43	68.1	0.2	0.2#
41	57.9	0.2	0.2#

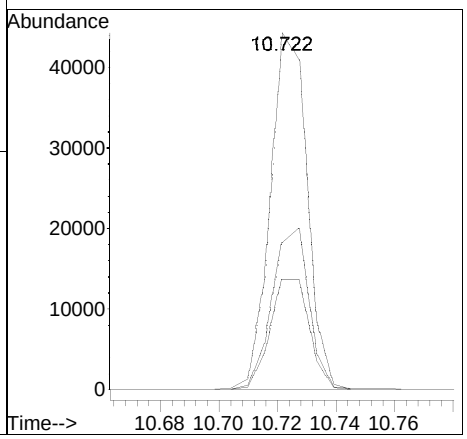


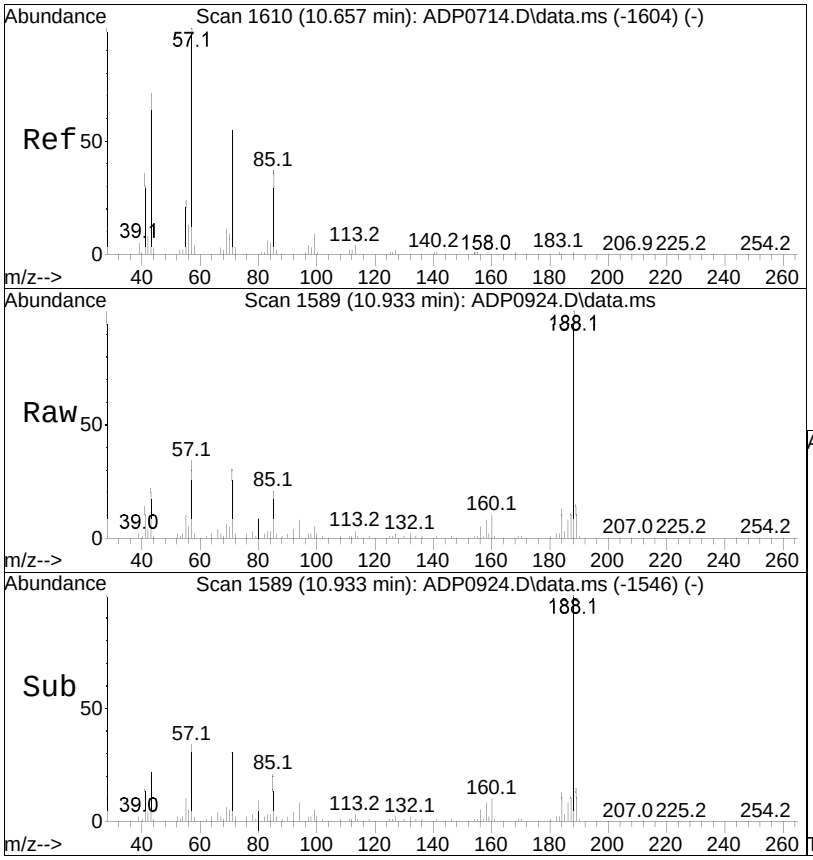


#87
Atrazine
Concen: 4.95 ug/ml
RT: 10.722 min Scan# 1553
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 8:09 am

Tgt Ion:200 Resp: 38495

Ion	Ratio	Lower	Upper
200	100		
202	33.3	25.8	38.6
215	45.8	40.2	60.4

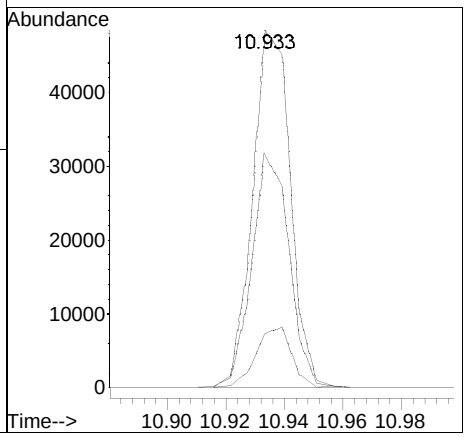


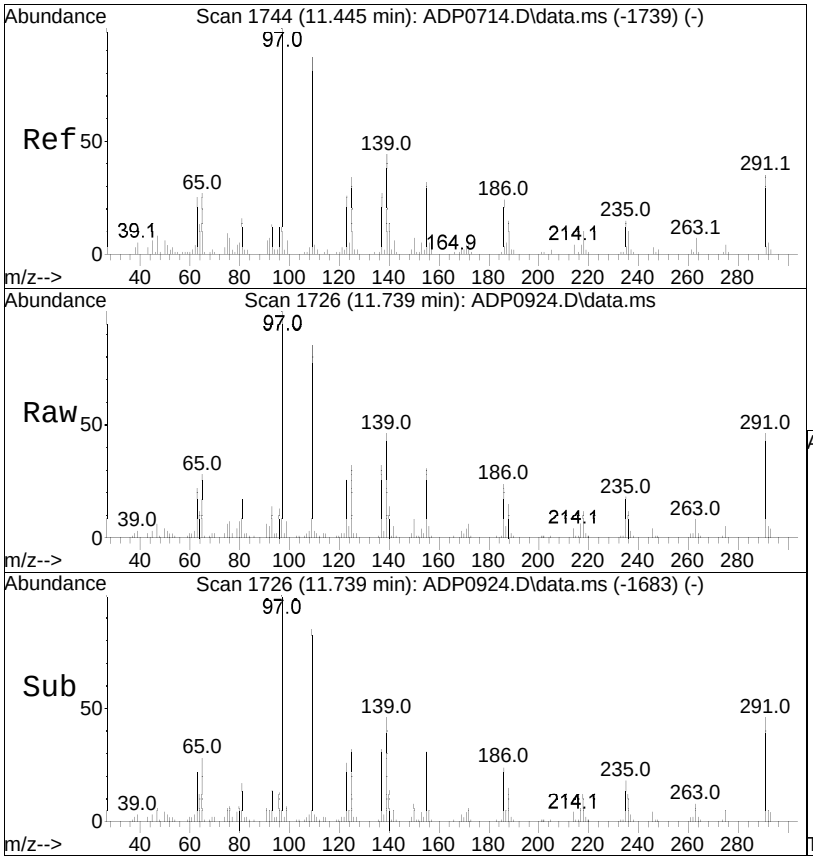


#101
n-Octadecane
Concen: 2.60 ug/ml
RT: 10.933 min Scan# 1589
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 8:09 am

Tgt Ion: 57 Resp: 43019

Ion	Ratio	Lower	Upper
57	100		
43	64.7	9.0	13.6#
70	16.2	0.2	0.2#

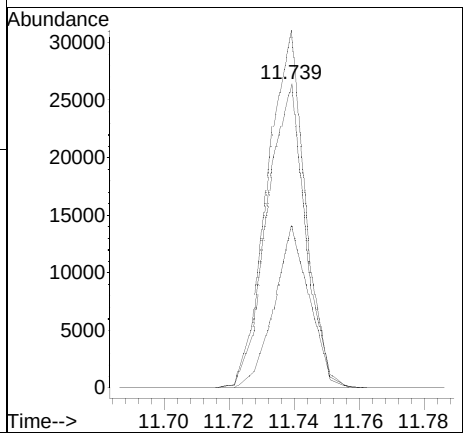


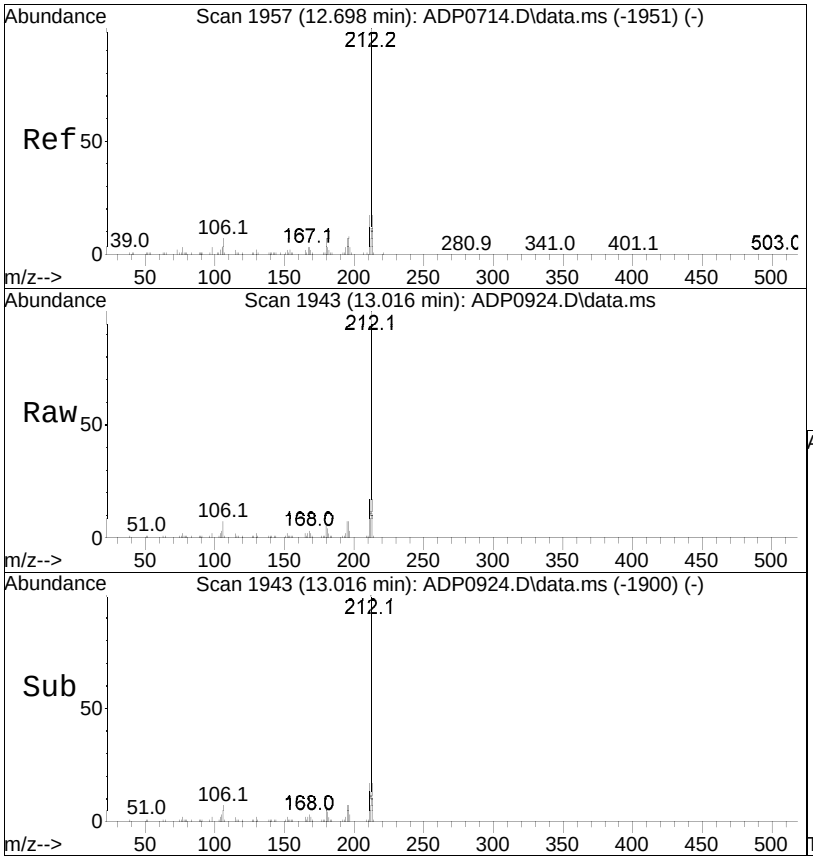


#102
Parathion
Concen: 5.22 ug/ml
RT: 11.739 min Scan# 1726
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 8:09 am

Tgt Ion:109 Resp: 21525

Ion	Ratio	Lower	Upper
109	100		
97	115.8	87.4	131.2
291	49.5	34.2	51.2

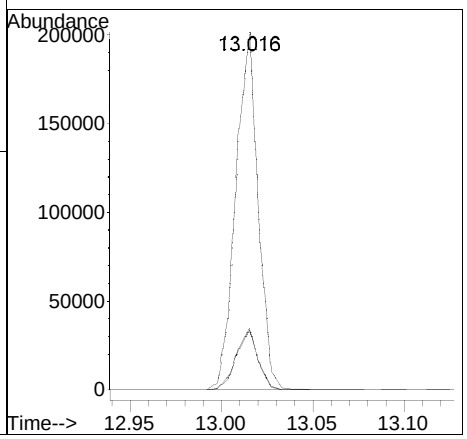




#103
3,3'-Dimethylbenzidine
Concen: 6.44 ug/ml
RT: 13.016 min Scan# 1943
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 8:09 am

Tgt Ion:212 Resp: 169140

Ion	Ratio	Lower	Upper
212	100		
211	16.7	12.9	19.3
213	16.5	13.2	19.8



Manual Integration Report

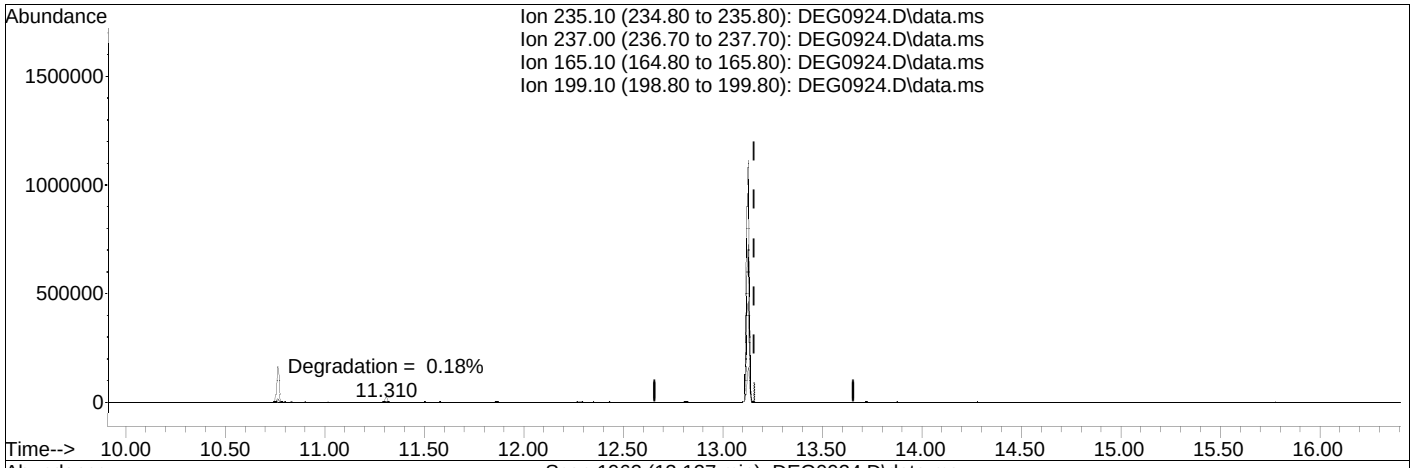
Data Path	: I:\8270\SV106\240924RVT\	QMethod	: FS240624SV106.m
Data File	: ADP0924.D	Operator	: SV106:smz
Date Inj'd	: 9/24/2024 8:09 am	Instrument	: SV 106
Sample	: wg1975455-5,32,,ADP 10751	Quant Date	: 9/24/2024 8:31 am

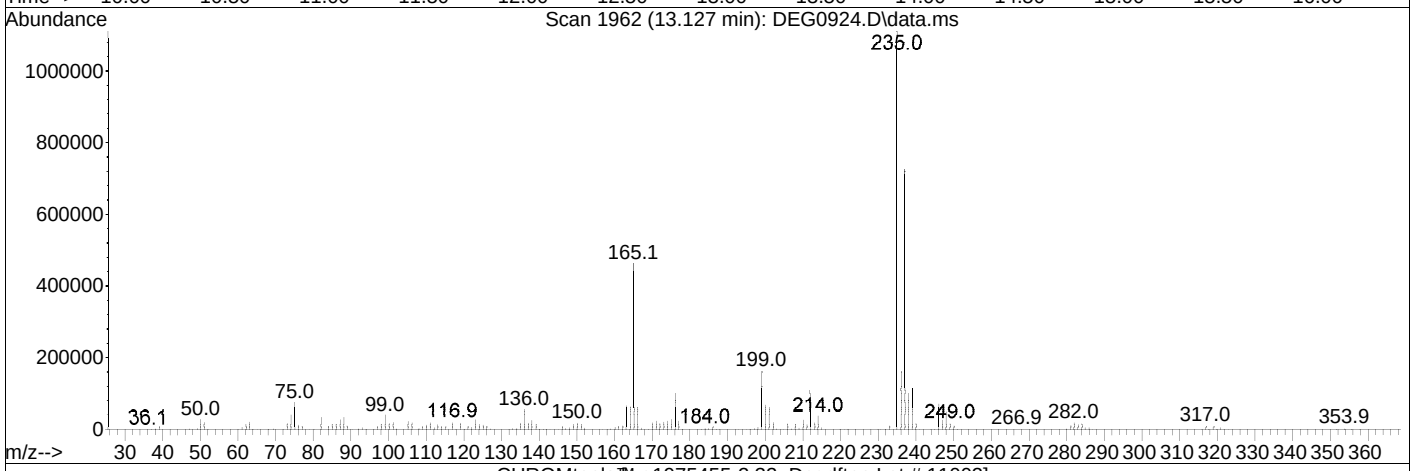
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 6:57 am
Operator : SV106:smz
Sample : wg1975455-2,32,,Degdftpp Lot # 11002
Misc : wg1975455,,ical21231
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 24 07:21:11 2024
Quant Method : I:\8270\SV106\240924RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 16 21:13:37 2024
Response via : Initial Calibration





CHROMtools [wg1975455-2,32,,Degdftpp Lot # 11002]

(6) DDT (T)

13.127min (-0.030) 164.03

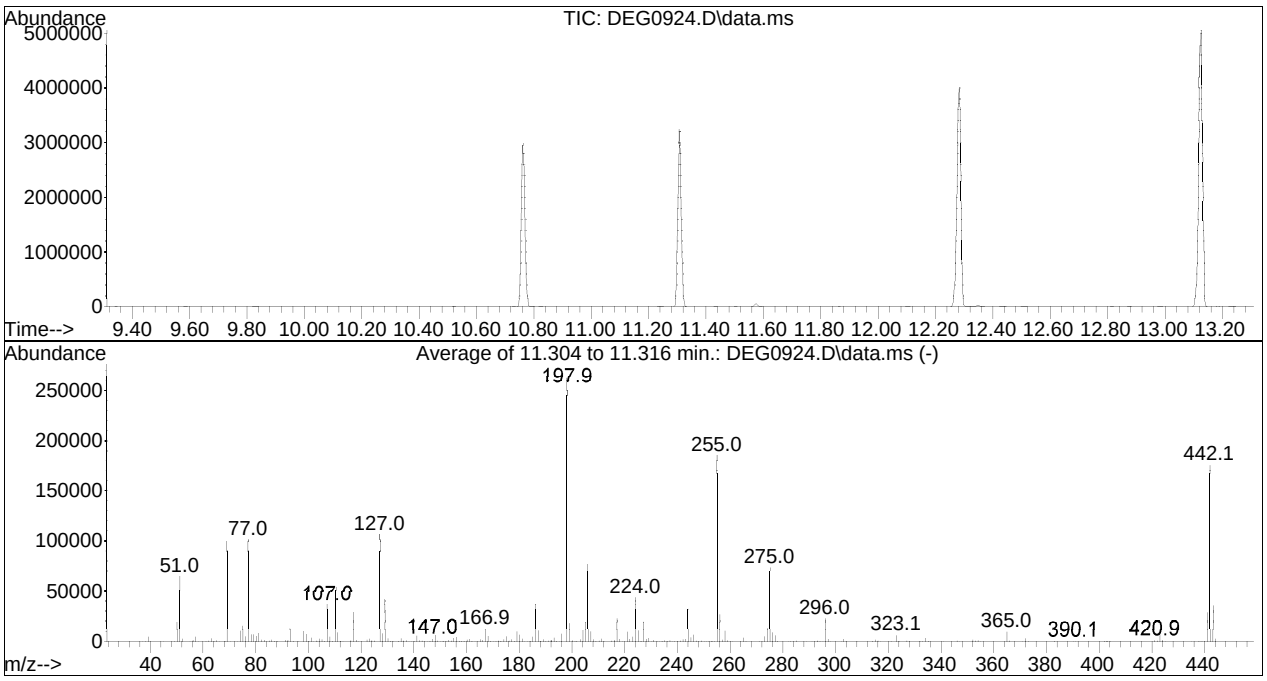
response 999895

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.30	64.70
165.10	44.50	43.28
199.10	14.80	15.10

Data Path : I:\8270\SV106\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 6:57 am
Operator : SV106:gmr
Sample : WG1975455-1,32,,Degdftpp Lot # 11002
Misc : WG1975455,,ical21231
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 24 08:23:46 2024



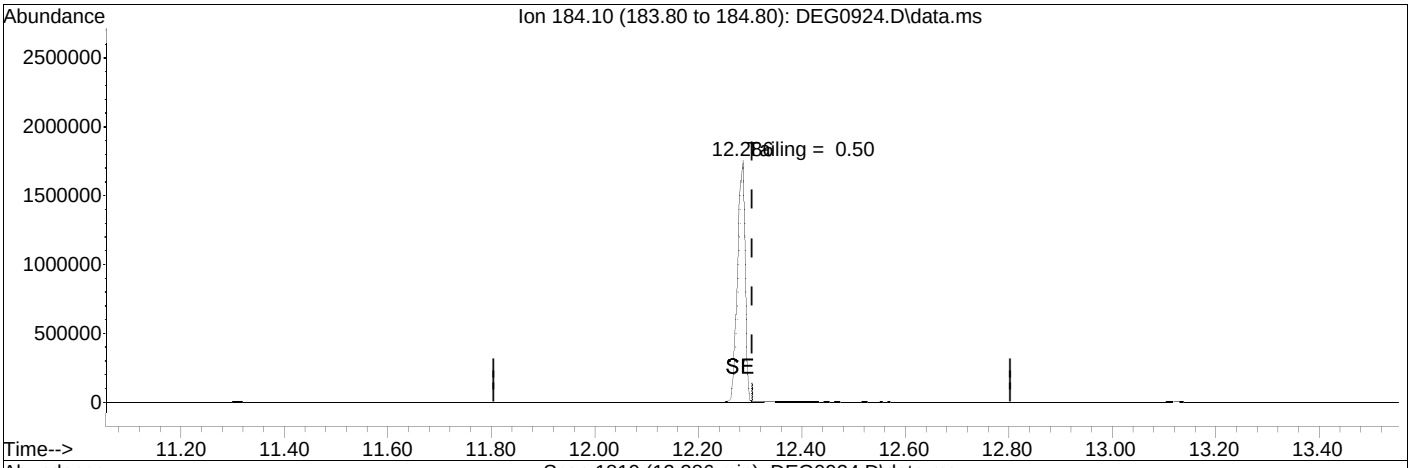
Spectrum Information: Average of 11.304 to 11.316 min.

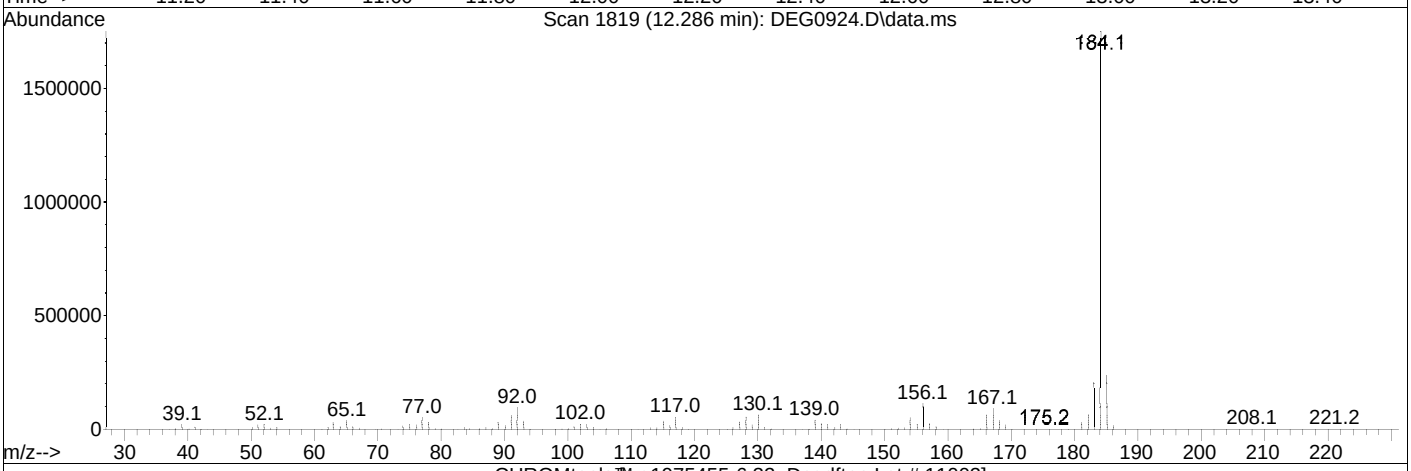
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.4	64136	PASS
68	69	0.00	2	1.1	1050	PASS
69	69	100	100	100.0	99664	PASS
70	69	0.00	2	0.4	378	PASS
127	198	10	80	40.3	105901	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	262869	PASS
199	198	5	9	6.7	17557	PASS
275	198	10	60	28.0	73515	PASS
365	198	1	100	3.6	9398	PASS
441	442	0.01	24	15.9	27838	PASS
442	198	50	100	66.7	175315	PASS
443	442	15	24	19.9	34861	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 6:57 am
Operator : SV106:smz
Sample : wg1975455-6,32,,Degdftpp Lot # 11002
Misc : wg1975455,,ical21231
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 24 07:21:11 2024
Quant Method : I:\8270\SV106\240924RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 16 21:13:37 2024
Response via : Initial Calibration





CHROMtools™ [wg1975455-6,32,,Degdftpp Lot # 11002]

(3) Benzidine (T)

12.286min (-0.018) 160.92

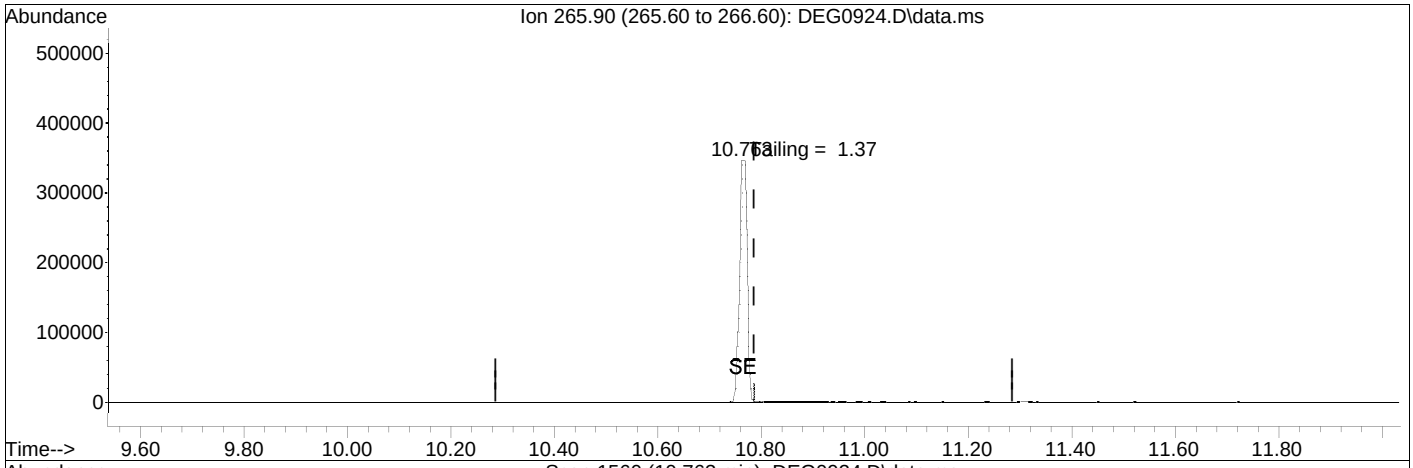
response 1638215

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 6:57 am
Operator : SV106:smz
Sample : wg1975455-7,32,,Degdftpp Lot # 11002
Misc : wg1975455,,ical21231
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 24 07:21:11 2024
Quant Method : I:\8270\SV106\240924RVT\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Sep 16 21:13:37 2024
Response via : Initial Calibration



CHROMtools [wg1975455-7,32,,Degdftpp Lot # 11002]

(1) Pentachlorophenol (T)

10.763min (-0.023) 154.71

response 324955

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:21		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-3	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	70	0
n-Nitrosodimethylamine	0.851	0.764	-	10.2	20	69	0
Pyridine	1.392	1.226	-	11.9	20	67	0
2-Fluorophenol	1.156	1.158	-	-0.2	20	75	0
Aniline	2.049	1.864	-	9	20	70	0
2-Chlorophenol	1.288	1.149	-	10.8	20	70	0
Phenol-d6	1.583	1.443	-	8.8	20	72	0
Phenol	1.642	1.573	-	4.2	20	74	0
Bis(2-chloroethyl)ether	1.348	1.095	-	18.8	20	63	0
1,3-Dichlorobenzene	1.546	1.389	-	10.2	20	70	0
1,4-Dichlorobenzene	1.565	1.386	-	11.4	20	70	0
1,2-Dichlorobenzene	1.522	1.354	-	11	20	70	0
Benzyl alcohol	1.267	1.182	-	6.7	20	72	0
Bis(2-chloroisopropyl)ethe	2.166	0.635	-	70.7*	20	23	0
2-Methylphenol	1.183	1.123	-	5.1	20	73	0
Hexachloroethane	0.623	0.517	-	17	20	67	0
n-Nitrosodi-n-propylamine	1.057	0.919	-	13.1	20	65	0
3-Methylphenol/4-Methylphe	1.279	1.262	-	1.3	20	77	0
Nitrobenzene-d5	1.619	1.435	-	11.4	20	69	0
Nitrobenzene	1.643	1.421	-	13.5	20	68	0
Isophorone	2.76	2.435	-	11.8	20	66	0
2-Nitrophenol	0.692	0.681	-	1.6	20	74	0
2,4-Dimethylphenol	1.301	1.187	-	8.8	20	70	0
Bis(2-chloroethoxy)methane	1.778	1.416	-	20.4*	20	62	0
2,4-Dichlorophenol	1.233	1.147	-	7	20	70	0
1,2,4-Trichlorobenzene	1.51	1.345	-	10.9	20	72	0
IS1_Naphthalene-d8	1	1	-	0	20	68	0
Naphthalene	1.147	1	-	12.8	20	68	0
Benzoic Acid	5	3.806	-	23.9*	20	54	0
4-Chloroaniline	0.169	0.135	-	20.1*	20	58	0
Hexachlorobutadiene	0.303	0.292	-	3.6	20	76	0
p-Chloro-m-cresol	0.343	0.339	-	1.2	20	72	0
2-Methylnaphthalene	0.764	0.708	-	7.3	20	70	0
1-Methylnaphthalene	0.29	0.28	-	3.4	20	72	0
Hexachlorocyclopentadiene	0.336	0.343	-	-2.1	20	75	0
2,4,6-Trichlorophenol	0.301	0.307	-	-2	20	74	0
2,4,5-Trichlorophenol	0.322	0.32	-	0.6	20	70	0
2-Fluorobiphenyl	1.027	0.894	-	13	20	66	0
2-Chloronaphthalene	0.813	0.765	-	5.9	20	71	0
2-Nitroaniline	0.245	0.242	-	1.2	20	71	0
1,4-Dinitrobenzene	0.129	0.137	-	-6.2	20	76	0
1,3-Dinitrobenzene	0.147	0.145	-	1.4	20	69	0
Dimethyl phthalate	0.989	0.937	-	5.3	20	69	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:21		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-3	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.244	1.15	-	7.6	20	67	0
2,6-Dinitrotoluene	0.213	0.221	-	-3.8	20	73	0
1,2-Dinitrobenzene	0.091	0.095	-	-4.4	20	73	0
IS1_Acenaphthene-d10	1	1	-	0	20	72	0
3-Nitroaniline	0.319	0.341	-	-6.9	20	77	0
Acenaphthene	1.153	1.006	-	12.7	20	69	0
2,4-Dinitrophenol	0.213	0.225	-	-5.6	20	75	0
Dibenzofuran	1.936	1.647	-	14.9	20	68	0
2,4-Dinitrotoluene	0.475	0.45	-	5.3	20	70	0
4-Nitrophenol	0.323	0.284	-	12.1	20	67	0
2,3,5,6-Tetrachlorophenol	0.452	0.464	-	-2.7	20	76	0
2,3,4,6-Tetrachlorophenol	0.435	0.438	-	-0.7	20	73	0
Diethyl phthalate	1.529	1.322	-	13.5	20	68	0
Fluorene	1.523	1.337	-	12.2	20	68	0
4-Chlorophenyl phenyl ethe	0.801	0.722	-	9.9	20	74	0
4-Nitroaniline	0.333	0.312	-	6.3	20	72	0
4,6-Dinitro-o-cresol	0.266	0.305	-	-14.7	20	78	0
NDPA/DPA	1.263	1.158	-	8.3	20	70	0
Azobenzene	1.446	1.241	-	14.2	20	66	0
2,4,6-Tribromophenol	0.249	0.268	-	-7.6	20	79	0
4-Bromophenyl phenyl ether	0.5	0.48	-	4	20	76	0
Hexachlorobenzene	0.569	0.559	-	1.8	20	79	0
Pentachlorophenol	0.361	0.377	-	-4.4	20	73	0
IS1_Phenanthrene-d10	1	1	-	0	20	73	0
Phenanthrene	1.117	0.957	-	14.3	20	71	0
Anthracene	1.111	0.957	-	13.9	20	69	0
Carbazole	1.018	0.887	-	12.9	20	70	0
Di-n-butylphthalate	1.195	1.027	-	14.1	20	67	0
Fluoranthene	1.366	1.217	-	10.9	20	72	0
Benzidine	0.741	0.774	-	-4.5	20	77	0
Pyrene	1.44	1.279	-	11.2	20	72	0
4-Terphenyl-d14	1.076	0.997	-	7.3	20	76	0
Butyl benzyl phthalate	0.55	0.5	-	9.1	20	73	0
IS1_Chrysene-d12	1	1	-	0	20	84	0
Benzo(a)anthracene	1.478	1.311	-	11.3	20	84	0
3,3'-Dichlorobenzidine	0.489	0.528	-	-8	20	90	0
Chrysene	1.429	1.228	-	14.1	20	82	0
Bis(2-ethylhexyl)phthalate	0.817	0.648	-	20.7*	20	68	0
Di-n-octylphthalate	1.352	1.178	-	12.9	20	76	0
Benzo(b)fluoranthene	1.43	1.45	-	-1.4	20	98	0
Benzo(k)fluoranthene	1.356	1.243	-	8.3	20	82	0
Benzo(a)pyrene	1.242	1.256	-	-1.1	20	91	0
IS1_Perylene-d12	1	1	-	0	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:21		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-3	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.082	1.092	-	-0.9	20	92	0
Dibenzo(a,h)anthracene	1.042	1.074	-	-3.1	20	94	0
Benzo(ghi)perylene	0.964	1.036	-	-7.5	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:45		
Lab File ID	: AP90924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-4	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	114	0
Benzaldehyde	1.187	1.105	-	6.9	20	107	0
Acetophenone	2.158	1.974	-	8.5	20	105	0
m-Toluidine	1.957	1.737	-	11.2	20	102	0
2-Chloroaniline	1.709	1.556	-	9	20	105	0
IS2_Naphthalene-d8	1	1	-	0	20	114	0
a-Terpineol	0.4	0.219	-	45.3*	20	63	0
3-Chloroaniline	0.201	0.158	-	21.4*	20	91	0
2,6-Dichlorophenol	0.362	0.334	-	7.7	20	102	0
1-chloro-2-nitrobenzene	0.18	0.163	-	9.4	20	100	0
Caprolactam	0.21	0.103	-	51*	20	52	0
1,2,4,5-Tetrachlorobenzene	0.548	0.501	-	8.6	20	108	0
Biphenyl	1.084	0.937	-	13.6	20	101	0
IS2_Acenaphthene-d10	1	1	-	0	20	126	0
Dichloran	0.247	0.233	-	5.7	20	112	0
Pentachloronitrobenzene	0.27	0.281	-	-4.1	20	122	0
IS2_Phenanthrene-d10	1	1	-	0	20	112	0
Diphenamid	0.561	0.52	-	7.3	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 08:09		
Lab File ID	: ADP0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-5	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	76	0
1,4-Dioxane	0.584	0.518	-	11.3	20	80	0
n-Decane	1.662	0.929	-	44.1*	20	46	0
IS3_Acenaphthene-d10	1	1	-	0	20	80	0
Atrazine	0.509	0.503	-	1.2	20	87	0
IS3_Phenanthrene-d10	1	1	-	0	20	74	0
n-Octadecane	0.498	0.259	-	48*	20	41	0
Parathion	0.124	0.13	-	-4.8	20	84	0
3,3'-Dimethylbenzidine	0.791	1.018	-	-28.7*	20	94	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:04		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	137	0
n-Nitrosodimethylamine	0.71	0.741	-	-4.4	20	143	0
Pyridine	1.086	1.257	-	-15.7	20	145	0
2-Fluorophenol	1.08	1.203	-	-11.4	20	152	0
Aniline	1.765	1.782	-	-1	20	149	0
2-Chlorophenol	1.294	1.255	-	3	20	140	0
Phenol-d6	1.413	1.389	-	1.7	20	143	0
Phenol	1.566	1.509	-	3.6	20	143	0
Bis(2-chloroethyl)ether	1.247	1.194	-	4.3	20	147	0
1,3-Dichlorobenzene	1.587	1.459	-	8.1	20	136	0
1,4-Dichlorobenzene	1.599	1.502	-	6.1	20	139	0
1,2-Dichlorobenzene	1.562	1.409	-	9.8	20	135	0
Benzyl alcohol	1.01	1.025	-	-1.5	20	153	0
Bis(2-chloroisopropyl)ethe	1.617	2.095	-	-29.6*	20	197	0
2-Methylphenol	1.126	1.101	-	2.2	20	151	0
Hexachloroethane	0.563	0.575	-	-2.1	20	145	0
n-Nitrosodi-n-propylamine	0.862	0.859	-	0.3	20	152	0
3-Methylphenol/4-Methylphe	1.241	1.197	-	3.5	20	151	0
Nitrobenzene-d5	1.368	1.342	-	1.9	20	148	0
Nitrobenzene	1.312	1.345	-	-2.5	20	153	0
Isophorone	2.344	2.291	-	2.3	20	148	0
2-Nitrophenol	0.667	0.631	-	5.4	20	146	0
2,4-Dimethylphenol	1.081	1.209	-	-11.8	20	250	0
Bis(2-chloroethoxy)methane	1.585	1.506	-	5	20	150	0
2,4-Dichlorophenol	1.18	1.122	-	4.9	20	143	0
1,2,4-Trichlorobenzene	1.405	1.226	-	12.7	20	135	0
IS1_Naphthalene-d8	1	1	-	0	20	133	0
Naphthalene	1.132	1.055	-	6.8	20	141	0
Benzoic Acid	5	4.769	-	4.6	20	141	0
4-Chloroaniline	0.126	0.139	-	-10.3	20	152	0
Hexachlorobutadiene	0.224	0.21	-	6.3	20	136	0
p-Chloro-m-cresol	0.283	0.315	-	-11.3	20	163	0
2-Methylnaphthalene	0.737	0.711	-	3.5	20	144	0
1-Methylnaphthalene	0.238	0.246	-	-3.4	20	150	0
Hexachlorocyclopentadiene	0.212	0.237	-	-11.8	20	159	0
2,4,6-Trichlorophenol	0.234	0.23	-	1.7	20	139	0
2,4,5-Trichlorophenol	0.249	0.245	-	1.6	20	138	0
2-Fluorobiphenyl	0.9	0.786	-	12.7	20	136	0
2-Chloronaphthalene	0.763	0.7	-	8.3	20	143	0
2-Nitroaniline	0.204	0.2	-	2	20	147	0
1,4-Dinitrobenzene	0.11	0.098	-	10.9	20	146	0
1,3-Dinitrobenzene	0.129	0.114	-	11.6	20	144	0
Dimethyl phthalate	0.863	0.765	-	11.4	20	138	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:04		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.031	-	8.9	20	139	0
2,6-Dinitrotoluene	0.169	0.164	-	3	20	142	0
1,2-Dinitrobenzene	0.077	0.072	-	6.5	20	141	0
IS1_Acenaphthene-d10	1	1	-	0	20	134	0
3-Nitroaniline	0.32	0.316	-	1.3	20	137	0
Acenaphthene	1.138	1.076	-	5.4	20	142	0
2,4-Dinitrophenol	5	5.182	-	-3.6	20	193	0
Dibenzofuran	1.879	1.751	-	6.8	20	143	0
2,4-Dinitrotoluene	0.408	0.389	-	4.7	20	140	0
4-Nitrophenol	0.253	0.273	-	-7.9	20	153	0
2,3,5,6-Tetrachlorophenol	0.341	0.342	-	-0.3	20	136	0
2,3,4,6-Tetrachlorophenol	0.325	0.325	-	0	20	131	0
Diethyl phthalate	1.327	1.325	-	0.2	20	154	0
Fluorene	1.404	1.337	-	4.8	20	143	0
4-Chlorophenyl phenyl ethe	0.713	0.634	-	11.1	20	135	0
4-Nitroaniline	0.32	0.303	-	5.3	20	135	0
4,6-Dinitro-o-cresol	5	4.537	-	9.3	20	164	0
NDPA/DPA	1.166	1.1	-	5.7	20	140	0
Azobenzene	1.226	1.279	-	-4.3	20	152	0
2,4,6-Tribromophenol	0.187	0.129	-	31*	20	102	0
4-Bromophenyl phenyl ether	0.385	0.327	-	15.1	20	129	0
Hexachlorobenzene	0.425	0.316	-	25.6*	20	112	0
Pentachlorophenol	5	3.831	-	23.4*	20	123	0
IS1_Phenanthrene-d10	1	1	-	0	20	130	0
Phenanthrene	1.151	1.104	-	4.1	20	141	0
Anthracene	1.089	1.094	-	-0.5	20	143	0
Carbazole	0.994	0.996	-	-0.2	20	141	0
Di-n-butylphthalate	1.094	1.154	-	-5.5	20	158	0
Fluoranthene	1.261	1.208	-	4.2	20	138	0
Benzidine	5	4.939	-	1.2	20	178	0
Pyrene	1.372	1.295	-	5.6	20	137	0
4-Terphenyl-d14	0.946	0.785	-	17	20	123	0
Butyl benzyl phthalate	5	4.239	-	15.2	20	160	0
IS1_Chrysene-d12	1	1	-	0	20	124	0
Benzo(a)anthracene	1.453	1.373	-	5.5	20	127	0
3,3'-Dichlorobenzidine	5	4.109	-	17.8	20	125	0
Chrysene	1.403	1.302	-	7.2	20	125	0
Bis(2-ethylhexyl)phthalate	5	5.273	-	-5.5	20	154	0
Di-n-octylphthalate	5	4.848	-	3	20	164	0
Benzo(b)fluoranthene	1.251	1.213	-	3	20	125	0
Benzo(k)fluoranthene	1.251	1.242	-	0.7	20	120	0
Benzo(a)pyrene	1.101	1.134	-	-3	20	126	0
IS1_Perylene-d12	1	1	-	0	20	114	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:04		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	1.134	-	-3.3	20	121	0
Dibenzo(a,h)anthracene	1.056	1.053	-	0.3	20	115	0
Benzo(ghi)perylene	0.977	1.051	-	-7.6	20	117	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:29		
Lab File ID	: AP90924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	118	0
Benzaldehyde	1.145	1.037	-	9.4	20	112	0
Acetophenone	2.032	1.813	-	10.8	20	111	0
m-Toluidine	1.86	1.735	-	6.7	20	108	0
2-Chloroaniline	1.773	1.502	-	15.3	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	116	0
a-Terpineol	0.297	0.313	-	-5.4	20	119	0
3-Chloroaniline	0.163	0.16	-	1.8	20	112	0
2,6-Dichlorophenol	0.319	0.285	-	10.7	20	100	0
1-chloro-2-nitrobenzene	0.155	0.144	-	7.1	20	109	0
Caprolactam	5	4.813	-	3.7	20	125	0
1,2,4,5-Tetrachlorobenzene	0.444	0.354	-	20.3*	20	97	0
Biphenyl	1.036	0.832	-	19.7	20	99	0
IS2_Acenaphthene-d10	1	1	-	0	20	109	0
Dichloran	5	3.593	-	28.1*	20	93	0
Pentachloronitrobenzene	5	3.877	-	22.5*	20	96	0
IS2_Phenanthrene-d10	1	1	-	0	20	96	0
Diphenamid	0.507	0.45	-	11.2	20	89	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:54		
Lab File ID	: ADP0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
1,4-Dioxane	0.459	0.5	-	-8.9	20	140	0
n-Decane	1.388	1.708	-	-23.1*	20	152	0
IS3_Acenaphthene-d10	1	1	-	0	20	106	0
Atrazine	0.315	0.327	-	-3.8	20	110	0
IS3_Phenanthrene-d10	1	1	-	0	20	98	0
n-Octadecane	0.381	0.551	-	-44.6*	20	144	0
Parathion	5	5.986	-	-19.7	20	142	0
3,3'-Dimethylbenzidine	5	4.588	-	8.2	20	117	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 08:59		
Lab File ID	: ABN0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	149	0
n-Nitrosodimethylamine	0.71	0.731	-	-3	20	153	0
Pyridine	1.086	1.216	-	-12	20	152	0
2-Fluorophenol	1.08	1.175	-	-8.8	20	162	0
Aniline	1.765	1.767	-	-0.1	20	161	0
2-Chlorophenol	1.294	1.25	-	3.4	20	151	0
Phenol-d6	1.413	1.408	-	0.4	20	158	0
Phenol	1.566	1.524	-	2.7	20	157	0
Bis(2-chloroethyl)ether	1.247	1.198	-	3.9	20	160	0
1,3-Dichlorobenzene	1.587	1.464	-	7.8	20	148	0
1,4-Dichlorobenzene	1.599	1.478	-	7.6	20	149	0
1,2-Dichlorobenzene	1.562	1.41	-	9.7	20	148	0
Benzyl alcohol	1.01	1.046	-	-3.6	20	170	0
Bis(2-chloroisopropyl)ethe	1.617	2.057	-	-27.2*	20	211	0
2-Methylphenol	1.126	1.114	-	1.1	20	166	0
Hexachloroethane	0.563	0.592	-	-5.2	20	163	0
n-Nitrosodi-n-propylamine	0.862	0.855	-	0.8	20	165	0
3-Methylphenol/4-Methylphe	1.241	1.225	-	1.3	20	168	0
Nitrobenzene-d5	1.368	1.327	-	3	20	160	0
Nitrobenzene	1.312	1.36	-	-3.7	20	169	0
Isophorone	2.344	2.329	-	0.6	20	164	0
2-Nitrophenol	0.667	0.652	-	2.2	20	164	0
2,4-Dimethylphenol	1.081	1.217	-	-12.6	20	274	0
Bis(2-chloroethoxy)methane	1.585	1.514	-	4.5	20	165	0
2,4-Dichlorophenol	1.18	1.133	-	4	20	158	0
1,2,4-Trichlorobenzene	1.405	1.259	-	10.4	20	151	0
IS1_Naphthalene-d8	1	1	-	0	20	146	0
Naphthalene	1.132	1.025	-	9.5	20	150	0
Benzoic Acid	5	5.241	-	-4.8	20	177	0
4-Chloroaniline	0.126	0.143	-	-13.5	20	171	0
Hexachlorobutadiene	0.224	0.222	-	0.9	20	158	0
p-Chloro-m-cresol	0.283	0.314	-	-11	20	178	0
2-Methylnaphthalene	0.737	0.694	-	5.8	20	154	0
1-Methylnaphthalene	0.238	0.245	-	-2.9	20	165	0
Hexachlorocyclopentadiene	0.212	0.233	-	-9.9	20	172	0
2,4,6-Trichlorophenol	0.234	0.238	-	-1.7	20	159	0
2,4,5-Trichlorophenol	0.249	0.238	-	4.4	20	147	0
2-Fluorobiphenyl	0.9	0.786	-	12.7	20	150	0
2-Chloronaphthalene	0.763	0.691	-	9.4	20	155	0
2-Nitroaniline	0.204	0.207	-	-1.5	20	167	0
1,4-Dinitrobenzene	0.11	0.106	-	3.6	20	174	0
1,3-Dinitrobenzene	0.129	0.12	-	7	20	167	0
Dimethyl phthalate	0.863	0.813	-	5.8	20	161	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 08:59		
Lab File ID	: ABN0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.079	-	4.7	20	160	0
2,6-Dinitrotoluene	0.169	0.171	-	-1.2	20	163	0
1,2-Dinitrobenzene	0.077	0.078	-	-1.3	20	167	0
IS1_Acenaphthene-d10	1	1	-	0	20	152	0
3-Nitroaniline	0.32	0.333	-	-4.1	20	162	0
Acenaphthene	1.138	1.082	-	4.9	20	161	0
2,4-Dinitrophenol	5	5.309	-	-6.2	20	224	0
Dibenzofuran	1.879	1.733	-	7.8	20	160	0
2,4-Dinitrotoluene	0.408	0.41	-	-0.5	20	167	0
4-Nitrophenol	0.253	0.283	-	-11.9	20	179	0
2,3,5,6-Tetrachlorophenol	0.341	0.363	-	-6.5	20	163	0
2,3,4,6-Tetrachlorophenol	0.325	0.343	-	-5.5	20	156	0
Diethyl phthalate	1.327	1.388	-	-4.6	20	182	0
Fluorene	1.404	1.386	-	1.3	20	167	0
4-Chlorophenyl phenyl ethe	0.713	0.659	-	7.6	20	159	0
4-Nitroaniline	0.32	0.317	-	0.9	20	160	0
4,6-Dinitro-o-cresol	5	5.057	-	-1.1	20	208	0
NDPA/DPA	1.166	1.132	-	2.9	20	162	0
Azobenzene	1.226	1.354	-	-10.4	20	182	0
2,4,6-Tribromophenol	0.187	0.138	-	26.2*	20	123	0
4-Bromophenyl phenyl ether	0.385	0.339	-	11.9	20	151	0
Hexachlorobenzene	0.425	0.337	-	20.7*	20	134	0
Pentachlorophenol	5	4.226	-	15.5	20	157	0
IS1_Phenanthrene-d10	1	1	-	0	20	153	0
Phenanthrene	1.151	1.102	-	4.3	20	165	0
Anthracene	1.089	1.122	-	-3	20	173	0
Carbazole	0.994	1.033	-	-3.9	20	171	0
Di-n-butylphthalate	1.094	1.254	-	-14.6	20	203	0
Fluoranthene	1.261	1.307	-	-3.6	20	175	0
Benzidine	5	5.337	-	-6.7	20	229	0
Pyrene	1.372	1.381	-	-0.7	20	171	0
4-Terphenyl-d14	0.946	0.853	-	9.8	20	158	0
Butyl benzyl phthalate	5	5.035	-	-0.7	20	228	0
IS1_Chrysene-d12	1	1	-	0	20	169	0
Benzo(a)anthracene	1.453	1.365	-	6.1	20	173	0
3,3'-Dichlorobenzidine	5	4.274	-	14.5	20	178	0
Chrysene	1.403	1.272	-	9.3	20	167	0
Bis(2-ethylhexyl)phthalate	5	5.537	-	-10.7	20	221	0
Di-n-octylphthalate	5	5.306	-	-6.1	20	248	0
Benzo(b)fluoranthene	1.251	1.303	-	-4.2	20	184	0
Benzo(k)fluoranthene	1.251	1.107	-	11.5	20	147	0
Benzo(a)pyrene	1.101	1.106	-	-0.5	20	168	0
IS1_Perylene-d12	1	1	-	0	20	156	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 08:59		
Lab File ID	: ABN0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	1.072	-	2.4	20	157	0
Dibenzo(a,h)anthracene	1.056	1.025	-	2.9	20	154	0
Benzo(ghi)perylene	0.977	1.009	-	-3.3	20	154	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 09:24		
Lab File ID	: AP90925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	136	0
Benzaldehyde	1.145	1.006	-	12.1	20	124	0
Acetophenone	2.032	1.727	-	15	20	121	0
m-Toluidine	1.86	1.664	-	10.5	20	119	0
2-Chloroaniline	1.773	1.489	-	16	20	115	0
IS2_Naphthalene-d8	1	1	-	0	20	133	0
a-Terpineol	0.297	0.301	-	-1.3	20	131	0
3-Chloroaniline	0.163	0.156	-	4.3	20	126	0
2,6-Dichlorophenol	0.319	0.286	-	10.3	20	114	0
1-chloro-2-nitrobenzene	0.155	0.14	-	9.7	20	121	0
Caprolactam	5	4.638	-	7.2	20	137	0
1,2,4,5-Tetrachlorobenzene	0.444	0.349	-	21.4*	20	109	0
Biphenyl	1.036	0.808	-	22*	20	110	0
IS2_Acenaphthene-d10	1	1	-	0	20	128	0
Dichloran	5	3.615	-	27.7*	20	109	0
Pentachloronitrobenzene	5	4.144	-	17.1	20	122	0
IS2_Phenanthrene-d10	1	1	-	0	20	119	0
Diphenamid	0.507	0.443	-	12.6	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 09:49		
Lab File ID	: ADP0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	120	0
1,4-Dioxane	0.459	0.487	-	-6.1	20	146	0
n-Decane	1.388	1.674	-	-20.6*	20	159	0
IS3_Acenaphthene-d10	1	1	-	0	20	120	0
Atrazine	0.315	0.356	-	-13	20	136	0
IS3_Phenanthrene-d10	1	1	-	0	20	113	0
n-Octadecane	0.381	0.545	-	-43*	20	165	0
Parathion	5	6.56	-	-31.2*	20	183	0
3,3'-Dimethylbenzidine	5	4.999	-	0	20	152	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 10:04 am
Operator : SV107:smz
Sample : wg1975560-3,32,,ABN 10908 HNY0924A
Misc : wg1975560,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 11:05:05 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:06:05 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	137	0.00
2	t	n-Nitrosodimethylamine		0.710	0.741	-4.4	143	0.00
3	t	Pyridine		1.086	1.257	-15.7	145	0.00
4	S	2-Fluorophenol		1.080	1.203	-11.4	152	0.00
5	T	Aniline		1.765	1.782	-1.0	149	0.00
6	t	2-Chlorophenol		1.294	1.255	3.0	140	0.00
7	S	Phenol-d6		1.413	1.389	1.7	143	0.00
8	T	Phenol		1.566	1.509	3.6	143	0.00
9	T	Bis(2-chloroethyl)ether		1.247	1.194	4.3	147	0.00
10	T	1,3-Dichlorobenzene		1.587	1.459	8.1	136	0.00
11	T	1,4-Dichlorobenzene		1.599	1.502	6.1	139	0.00
12	T	1,2-Dichlorobenzene		1.562	1.409	9.8	135	0.00
13	t	Benzyl alcohol		1.010	1.025	-1.5	153	0.00
14	T	Bis(2-chloroisopropyl)ether		1.617	2.095	-29.6#	197	0.00
15	T	2-Methylphenol		1.126	1.101	2.2	151	0.00
16	T	Hexachloroethane		0.563	0.575	-2.1	145	0.00
17	T	n-Nitrosodi-n-propylamine		0.862	0.859	0.3	152	0.00
18	T	3-Methylphenol/4-Methylphen		1.241	1.197	3.5	151	0.00
19	S	Nitrobenzene-d5		1.368	1.342	1.9	148	0.00
20	T	Nitrobenzene		1.312	1.345	-2.5	153	0.00
21	T	Isophorone		2.344	2.291	2.3	148	0.00
22	T	2-Nitrophenol		0.667	0.631	5.4	146	0.00
23	T	2,4-Dimethylphenol		1.081	1.209	-11.8	250#	0.00
24	T	Bis(2-chloroethoxy)methane		1.585	1.506	5.0	150	0.00
25	T	2,4-Dichlorophenol		1.180	1.122	4.9	143	0.00
26	T	1,2,4-Trichlorobenzene		1.405	1.226	12.7	135	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	133	0.00
36	T	Naphthalene		1.132	1.055	6.8	141	0.00
37	T	Benzoic Acid	*	5.000	4.769	4.6	141	0.00
38	T	4-Chloroaniline		0.126	0.139	-10.3	152	0.00
39	T	Hexachlorobutadiene		0.224	0.210	6.3	136	0.00
40	T	p-Chloro-m-cresol		0.283	0.315	-11.3	163	0.00
41	T	2-Methylnaphthalene		0.737	0.711	3.5	144	0.00
42	T	1-Methylnaphthalene		0.238	0.246	-3.4	150	0.00
43	T	Hexachlorocyclopentadiene		0.212	0.237	-11.8	159	0.00
44	T	2,4,6-Trichlorophenol		0.234	0.230	1.7	139	0.00
45	T	2,4,5-Trichlorophenol		0.249	0.245	1.6	138	0.00
46	S	2-Fluorobiphenyl		0.900	0.786	12.7	136	0.00

Data Path : I:\8270\SV107\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 10:04 am
Operator : SV107:smz
Sample : wg1975560-3,32,,ABN 10908 HNY0924A
Misc : wg1975560,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 11:05:05 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:06:05 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.763	0.700	8.3	143	0.00
48	T	2-Nitroaniline		0.204	0.200	2.0	147	0.00
49	T	1,4-Dinitrobenzene		0.110	0.098	10.9	146	0.00
50	T	1,3-Dinitrobenzene		0.129	0.114	11.6	144	0.00
51	T	Dimethyl phthalate		0.863	0.765	11.4	138	0.00
52	T	Acenaphthylene		1.132	1.031	8.9	139	0.00
53	T	2,6-Dinitrotoluene		0.169	0.164	3.0	142	0.00
54	T	1,2-Dinitrobenzene		0.077	0.072	6.5	141	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	134	0.00
64	T	3-Nitroaniline		0.320	0.316	1.3	137	0.00
65	T	Acenaphthene		1.138	1.076	5.4	142	0.00
66	T	2,4-Dinitrophenol	*	5.000	5.182	-3.6	193	0.00
67	T	Dibenzofuran		1.879	1.751	6.8	143	0.00
68	T	2,4-Dinitrotoluene		0.408	0.389	4.7	140	0.00
69	T	4-Nitrophenol		0.253	0.273	-7.9	153	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.341	0.342	-0.3	136	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.325	0.325	0.0	131	0.00
72	T	Diethyl phthalate		1.327	1.325	0.2	154	0.00
73	T	Fluorene		1.404	1.337	4.8	143	0.00
74	T	4-Chlorophenyl phenyl ether		0.713	0.634	11.1	135	0.00
75	T	4-Nitroaniline		0.320	0.303	5.3	135	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	4.537	9.3	164	0.00
77	T	NDPA/DPA		1.166	1.100	5.7	140	0.00
78	T	Azobenzene		1.226	1.279	-4.3	152	0.00
79	S	2,4,6-Tribromophenol		0.187	0.129	31.0#	102	0.00
80	T	4-Bromophenyl phenyl ether		0.385	0.327	15.1	129	0.00
81	T	Hexachlorobenzene		0.425	0.316	25.6#	112	0.00
82	T	Pentachlorophenol	*	5.000	3.831	23.4#	123	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	130	0.00
89	T	Phenanthrene		1.151	1.104	4.1	141	0.00
90	T	Anthracene		1.089	1.094	-0.5	143	0.00
91	T	Carbazole		0.994	0.996	-0.2	141	0.00
92	T	Di-n-butylphthalate		1.094	1.154	-5.5	158	0.00
93	T	Fluoranthene		1.261	1.208	4.2	138	0.00
94	T	Benzidine	*	5.000	4.939	1.2	178	0.00
95	T	Pyrene		1.372	1.295	5.6	137	0.00
96	S	4-Terphenyl-d14		0.946	0.785	17.0	123	0.00

Data Path : I:\8270\SV107\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 10:04 am
Operator : SV107:smz
Sample : wg1975560-3,32,,ABN 10908 HNY0924A
Misc : wg1975560,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 11:05:05 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:06:05 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	*	5.000	4.239	15.2	160	0.00
104	I	IS1_Chrysene-d12		1.000	1.000	0.0	124	0.00
105	T	Benzo(a)anthracene		1.453	1.373	5.5	127	0.00
106	T	3,3'-Dichlorobenzidine	*	5.000	4.109	17.8	125	0.00
107	T	Chrysene		1.403	1.302	7.2	125	0.00
108	T	Bis(2-ethylhexyl)phthalate	*	5.000	5.273	-5.5	154	0.00
109	T	Di-n-octylphthalate	*	5.000	4.848	3.0	164	0.00
110	T	Benzo(b)fluoranthene		1.251	1.213	3.0	125	0.00
111	T	Benzo(k)fluoranthene		1.251	1.242	0.7	120	0.00
112	T	Benzo(a)pyrene		1.101	1.134	-3.0	126	0.00
113	I	IS1_Perylene-d12		1.000	1.000	0.0	114	0.00
114	T	Indeno(1,2,3-cd)pyrene		1.098	1.134	-3.3	121	0.00
115	T	Dibenzo(a,h)anthracene		1.056	1.053	0.3	115	0.00
116	T	Benzo(ghi)perylene		0.977	1.051	-7.6	117	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 10:04 am
Operator : SV107:smz
Sample : wg1975560-3,32,,ABN 10908 HNY0924A
Misc : wg1975560,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 11:05:05 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:06:05 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.557	152	19920	4.000	ug/ml	0.00
35) IS1_Naphthalene-d8	7.969	136	70855	4.000	ug/ml	0.00
63) IS1_Acenaphthene-d10	9.733	164	40421	4.000	ug/ml	0.00
88) IS1_Phenanthrene-d10	11.174	188	71763	4.000	ug/ml	0.00
104) IS1_Chrysene-d12	13.821	240	60563	4.000	ug/ml	0.00
113) IS1_Perylene-d12	15.304	264	60747	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.740	112	29954	5.570	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 278.50%#			
7) Phenol-d6	6.187	99	34578	4.914	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 245.70%#			
19) Nitrobenzene-d5	7.204	82	33419	4.907	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 490.70%#			
46) 2-Fluorobiphenyl	9.086	172	69616	4.367	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 436.70%#			
79) 2,4,6-Tribromophenol	10.504	330	6509	3.439	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 171.95%#			
96) 4-Terphenyl-d14	12.757	244	70374	4.148	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 414.80%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.304	74	18448	5.215	ug/ml#	69
3) Pyridine	2.340	79	31306	5.786	ug/ml#	74
5) Aniline	6.157	93	44368	5.048	ug/ml	99
6) 2-Chlorophenol	6.298	128	31260	4.850	ug/ml	96
8) Phenol	6.198	94	37576	4.817	ug/ml	97
9) Bis(2-chloroethyl)ether	6.281	93	29734	4.787	ug/ml#	76
10) 1,3-Dichlorobenzene	6.487	146	36323	4.595	ug/ml	99
11) 1,4-Dichlorobenzene	6.581	146	37389	4.694	ug/ml	100
12) 1,2-Dichlorobenzene	6.757	146	35075	4.510	ug/ml	99
13) Benzyl alcohol	6.757	79	25513	5.074	ug/ml	100
14) Bis(2-chloroisopropyl)...	6.934	45	52155	6.476	ug/ml#	63
15) 2-Methylphenol	6.922	108	27424	4.889	ug/ml	97
16) Hexachloroethane	7.139	117	14316	5.108	ug/ml#	73
17) n-Nitrosodi-n-propylamine	7.075	70	21387	4.982	ug/ml#	92
18) 3-Methylphenol/4-Methy...	7.104	108	29799	4.821	ug/ml	96
20) Nitrobenzene	7.228	77	33486	5.125	ug/ml	98
21) Isophorone	7.504	82	57048	4.888	ug/ml	95
22) 2-Nitrophenol	7.581	139	15710	4.733	ug/ml#	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 10:04 am
Operator : SV107:smz
Sample : wg1975560-3,32,,ABN 10908 HNY0924A
Misc : wg1975560,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 11:05:05 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:06:05 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.675	107	30101	5.590	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.769	93	37493	4.750	ug/ml	98
25) 2,4-Dichlorophenol	7.845	162	27939	4.752	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.922	180	30515	4.361	ug/ml	99
36) Naphthalene	7.992	128	93444	4.660	ug/ml	99
37) Benzoic Acid	7.751	105	15858	4.769	ug/ml	99
38) 4-Chloroaniline	8.069	65	12337	5.511	ug/ml	92
39) Hexachlorobutadiene	8.157	225	18573	4.685	ug/ml	98
40) p-Chloro-m-cresol	8.592	107	27935	5.575	ug/ml	95
41) 2-Methylnaphthalene	8.710	142	62974	4.822	ug/ml	95
42) 1-Methylnaphthalene	8.804	115	21763	5.158	ug/ml	93
43) Hexachlorocyclopentadiene	8.886	237	20983	5.597	ug/ml	98
44) 2,4,6-Trichlorophenol	9.004	196	20340	4.906	ug/ml	99
45) 2,4,5-Trichlorophenol	9.033	196	21714	4.930	ug/ml	97
47) 2-Chloronaphthalene	9.186	162	62025	4.589	ug/ml	98
48) 2-Nitroaniline	9.298	138	17733	4.905	ug/ml	92
49) 1,4-Dinitrobenzene	9.433	168	8703	4.473	ug/ml	87
50) 1,3-Dinitrobenzene	9.504	168	10076	4.409	ug/ml#	1
51) Dimethyl phthalate	9.498	163	67797	4.437	ug/ml#	99
52) Acenaphthylene	9.592	152	91285	4.551	ug/ml	99
53) 2,6-Dinitrotoluene	9.545	165	14538	4.861	ug/ml	87
54) 1,2-Dinitrobenzene	9.586	168	6378	4.694	ug/ml#	1
64) 3-Nitroaniline	9.698	138	15985	4.943	ug/ml#	98
65) Acenaphthene	9.763	154	54344	4.726	ug/ml	92
66) 2,4-Dinitrophenol	9.804	184	9707	5.182	ug/ml#	89
67) Dibenzofuran	9.933	168	88475	4.660	ug/ml	96
68) 2,4-Dinitrotoluene	9.933	165	19651	4.762	ug/ml	94
69) 4-Nitrophenol	9.880	65	13793	5.394	ug/ml#	89
70) 2,3,5,6-Tetrachlorophenol	10.022	232	17266	5.009	ug/ml	99
71) 2,3,4,6-Tetrachlorophenol	10.063	232	16434	4.999	ug/ml	99
72) Diethyl phthalate	10.192	149	66953	4.993	ug/ml	100
73) Fluorene	10.269	166	67577	4.762	ug/ml	97
74) 4-Chlorophenyl phenyl ...	10.286	204	32014	4.444	ug/ml	96
75) 4-Nitroaniline	10.292	138	15322	4.736	ug/ml#	84
76) 4,6-Dinitro-o-cresol	10.327	198	11365	4.537	ug/ml#	72
77) NDPA/DPA	10.398	169	55599	4.720	ug/ml	95
78) Azobenzene	10.433	77	64624	5.214	ug/ml	98
80) 4-Bromophenyl phenyl e...	10.757	248	16499	4.242	ug/ml	95
81) Hexachlorobenzene	10.810	284	15983	3.724	ug/ml#	93
82) Pentachlorophenol	10.998	266	10839	3.831	ug/ml	99
89) Phenanthrene	11.192	178	99061	4.796	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 10:04 am
Operator : SV107:smz
Sample : wg1975560-3,32,,ABN 10908 HNY0924A
Misc : wg1975560,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 11:05:05 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:06:05 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Anthracene	11.245	178	98108	5.022	ug/ml	99
91) Carbazole	11.410	167	89377	5.014	ug/ml	98
92) Di-n-butylphthalate	11.792	149	103497	5.273	ug/ml	99
93) Fluoranthene	12.351	202	108324	4.788	ug/ml#	93
94) Benzidine	12.498	184	65514	4.939	ug/ml#	94
95) Pyrene	12.568	202	116164	4.720	ug/ml	100
97) Butyl benzyl phthalate	13.280	149	42479	4.239	ug/ml	89
105) Benzo(a)anthracene	13.815	228	103904	4.721	ug/ml	99
106) 3,3'-Dichlorobenzidine	13.810	252	32298	4.109	ug/ml	97
107) Chrysene	13.851	228	98558	4.638	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	13.921	149	62821	5.273	ug/ml#	93
109) Di-n-octylphthalate	14.604	149	101321	4.848	ug/ml#	74
110) Benzo(b)fluoranthene	14.927	252	91835	4.847	ug/ml	97
111) Benzo(k)fluoranthene	14.957	252	93990	4.961	ug/ml#	96
112) Benzo(a)pyrene	15.245	252	85846	5.151	ug/ml	96
114) Indeno(1,2,3-cd)pyrene	16.309	276	86108M6	5.164	ug/mL	
115) Dibenzo(a,h)anthracene	16.333	278	79950	4.987	ug/ml#	94
116) Benzo(ghi)perylene	16.580	276	79790	5.375	ug/ml	94

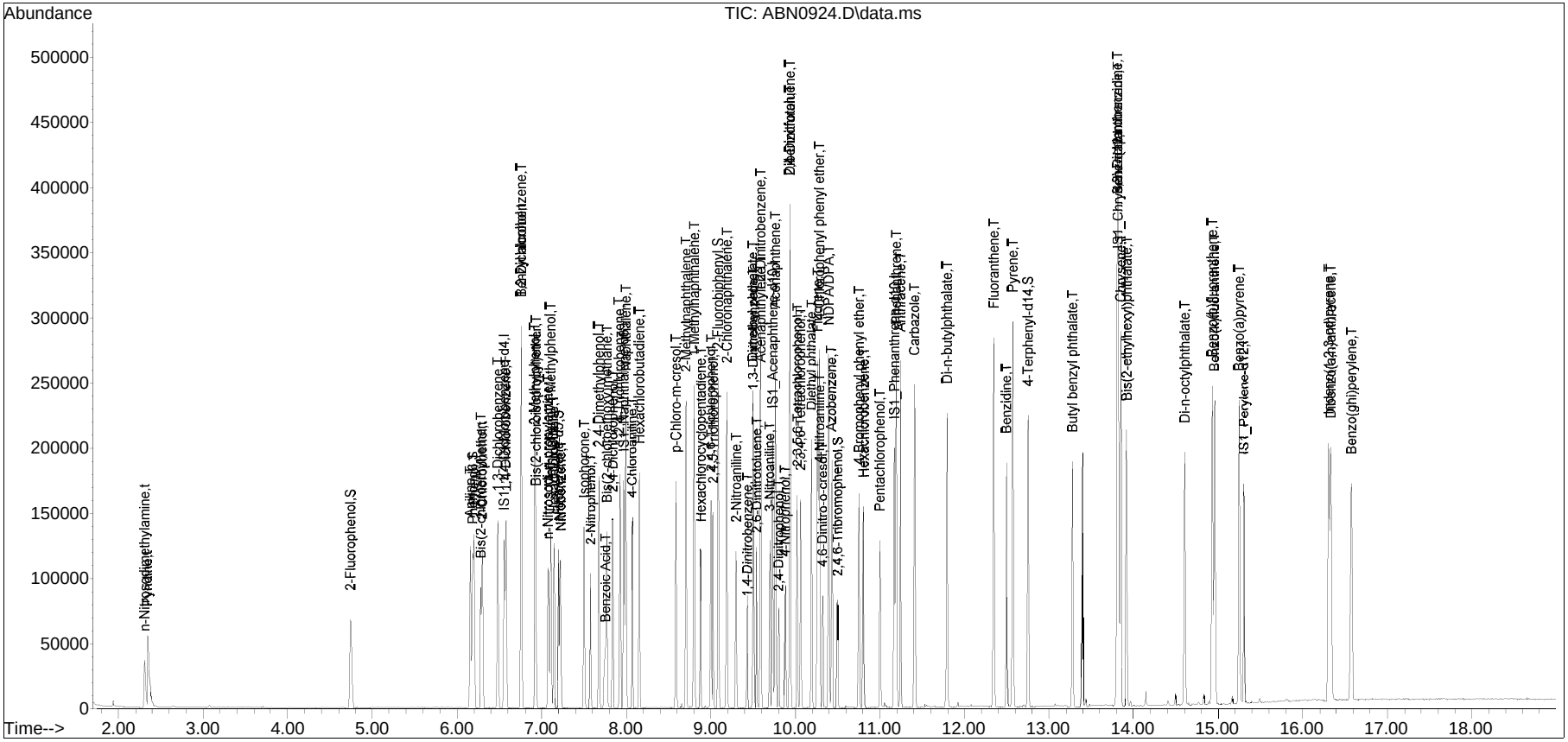
(#) = qualifier out of range (m) = manual integration (+) = signals summed

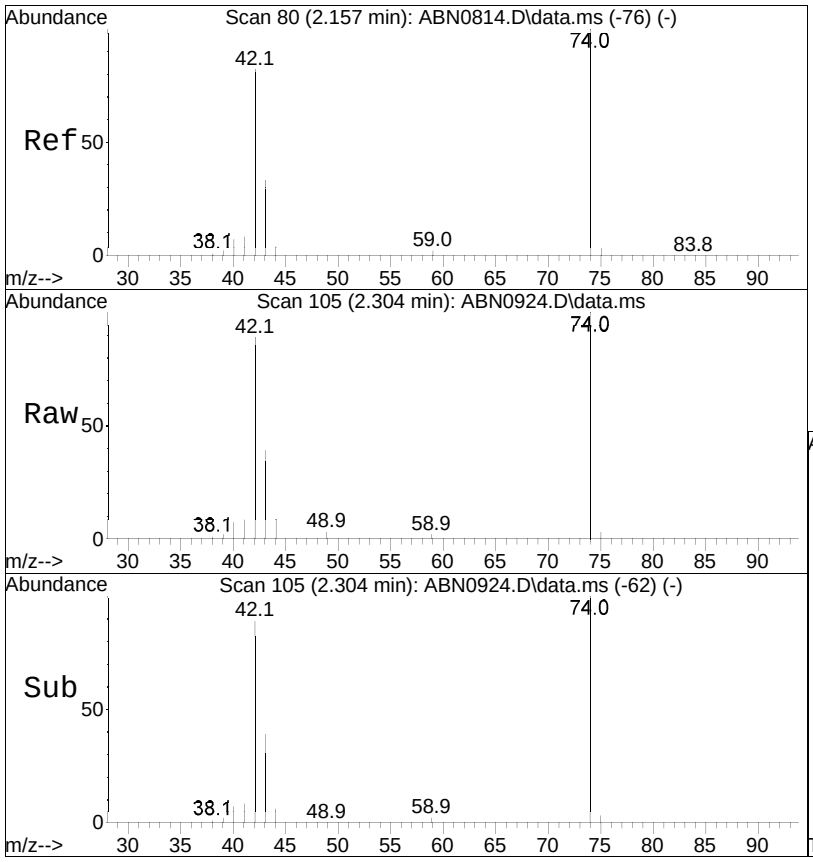
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : ABN0924.D
Acq On : 24 Sep 2024 10:04 am
Operator : SV107:smz
Sample : wg1975560-3,32,,ABN 10908 HNY0924A
Misc : wg1975560,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 24 11:05:05 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:06:05 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

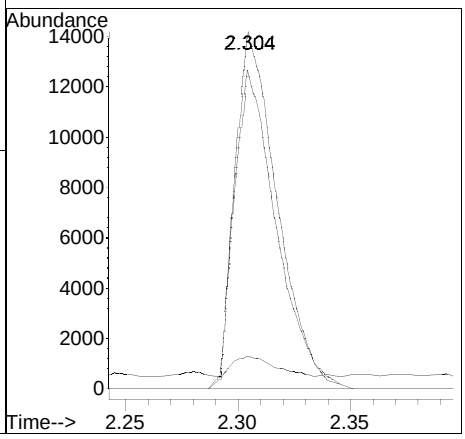


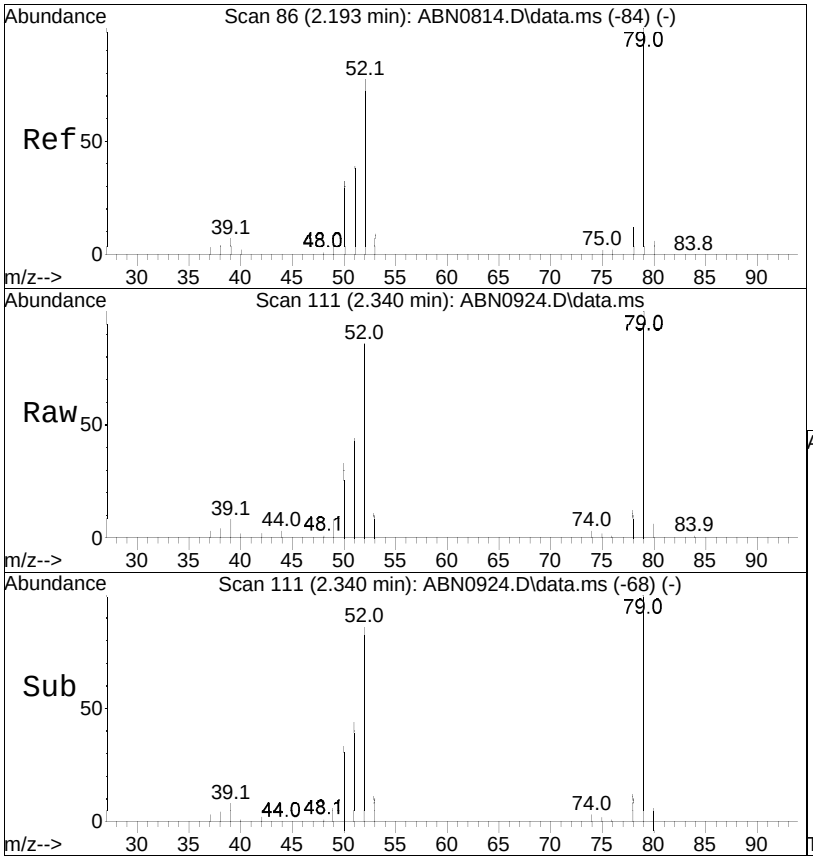


#2
n-Nitrosodimethylamine
Concen: 5.22 ug/ml
RT: 2.304 min Scan# 105
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 74 Resp: 18448

Ion	Ratio	Lower	Upper
74	100		
42	88.4	100.0	150.0#
44	5.8	6.7	10.1#

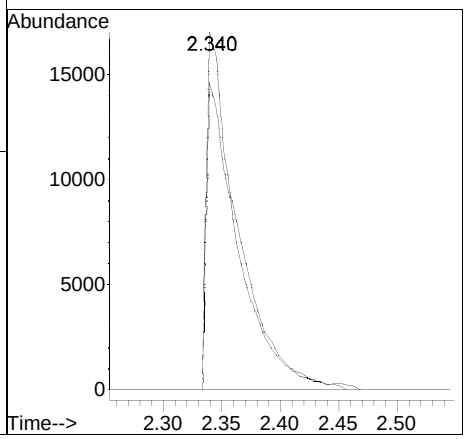


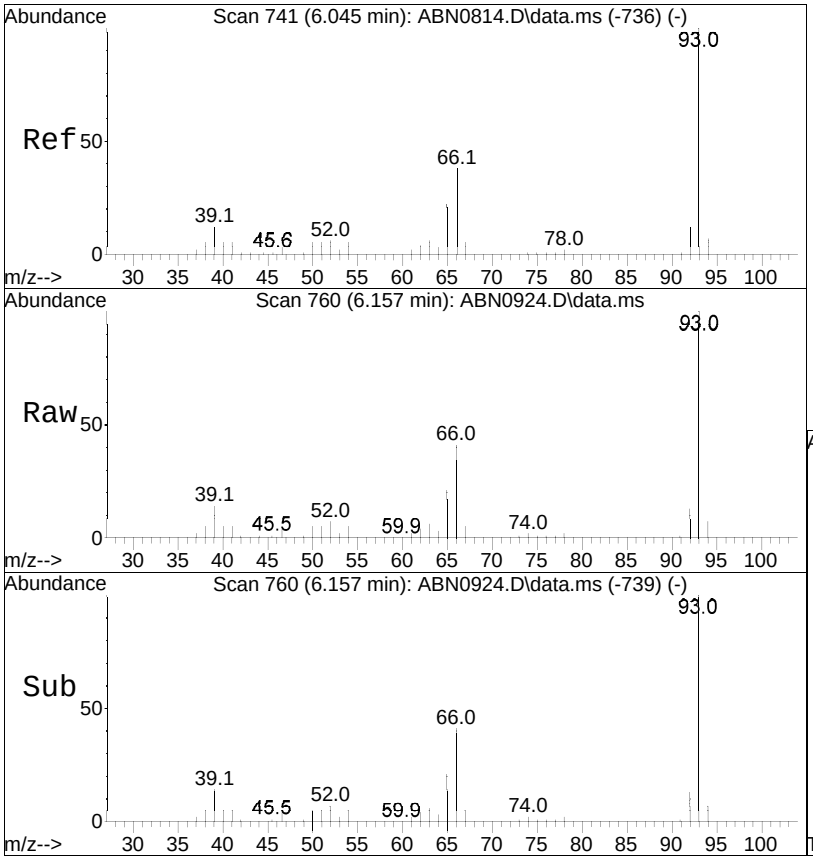


#3
Pyridine
Concen: 5.79 ug/ml
RT: 2.340 min Scan# 111
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 79 Resp: 31306

Ion	Ratio	Lower	Upper
79	100		
52	88.1	93.1	139.7#

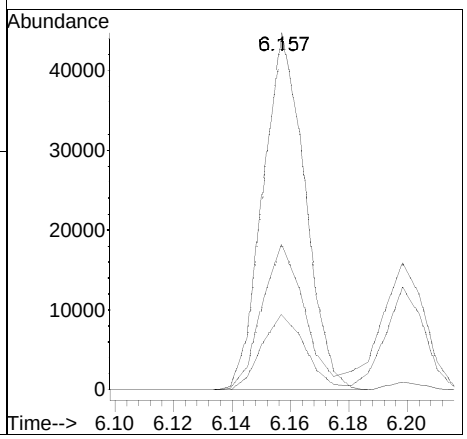


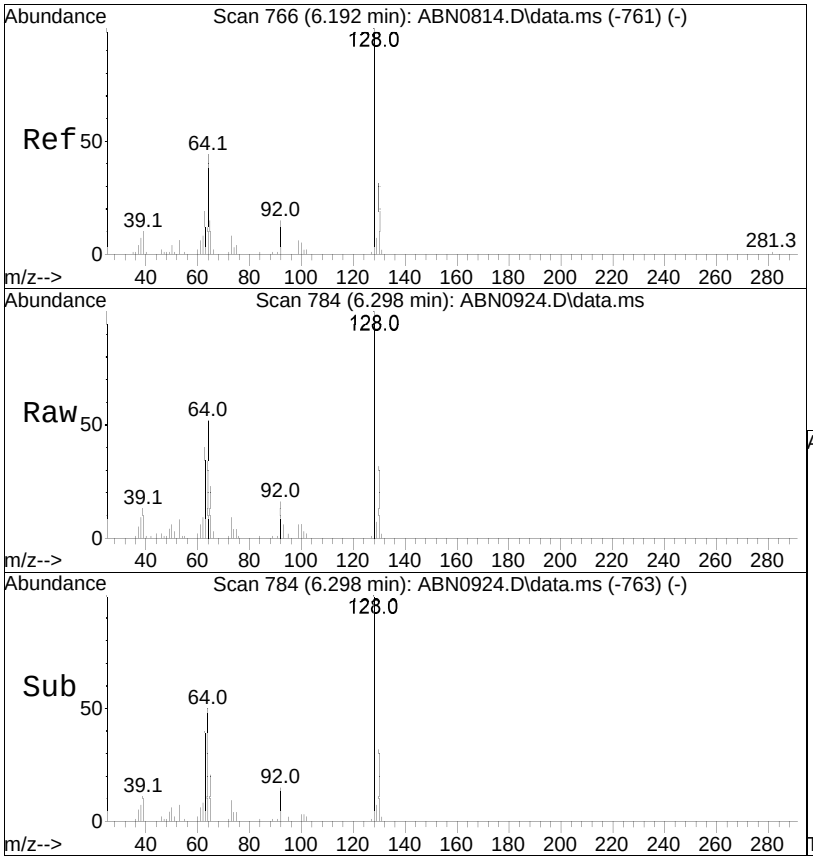


#5
Aniline
Concen: 5.05 ug/ml
RT: 6.157 min Scan# 760
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 93 Resp: 44368

Ion	Ratio	Lower	Upper
93	100		
66	41.5	32.6	49.0
65	22.3	17.6	26.4

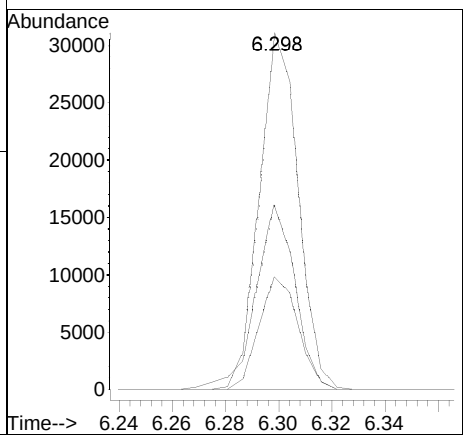


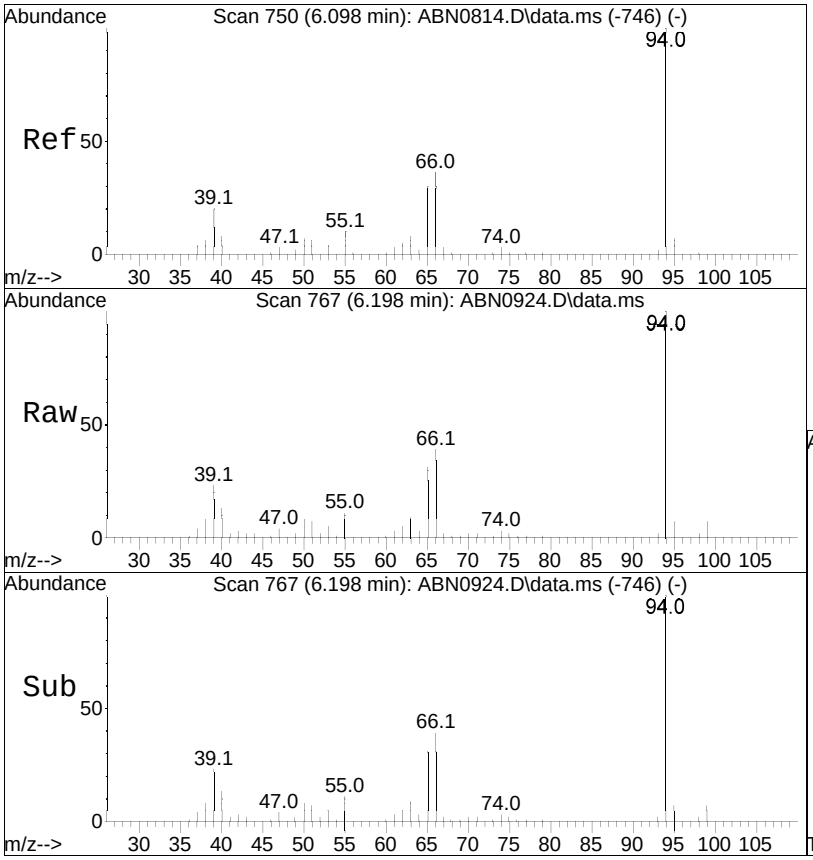


#6
2-Chlorophenol
Concen: 4.85 ug/ml
RT: 6.298 min Scan# 784
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:128 Resp: 31260

Ion	Ratio	Lower	Upper
128	100		
64	52.7	45.1	67.7
130	32.2	26.2	39.4

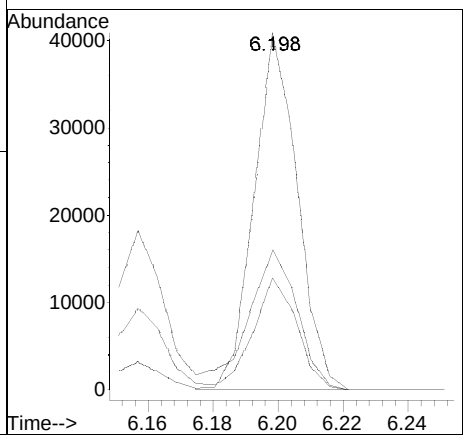


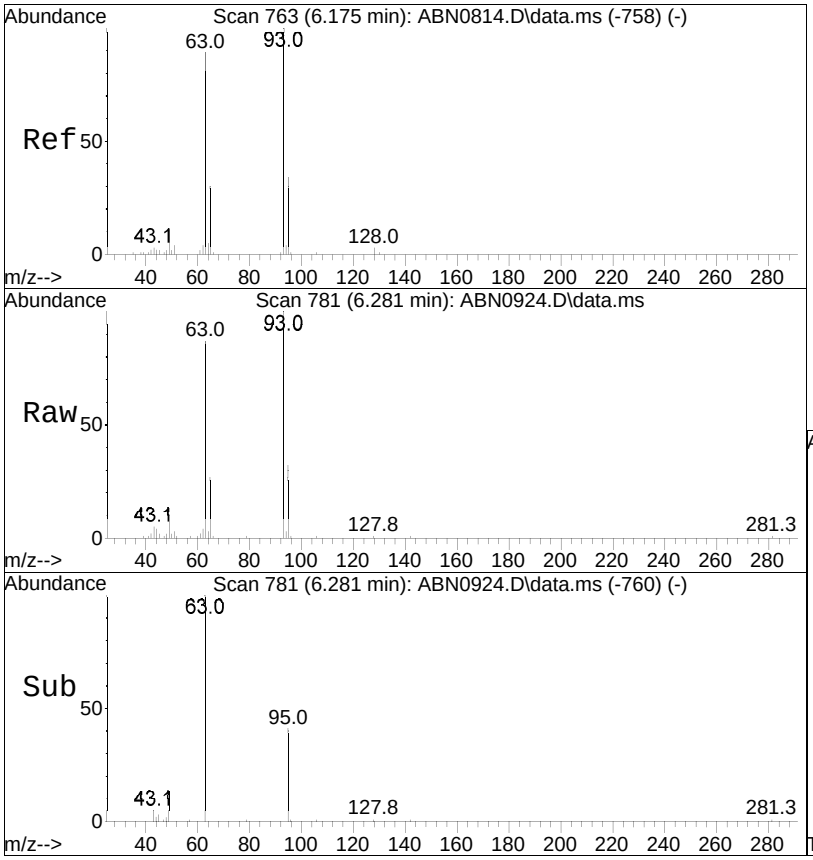


#8
Phenol
Concen: 4.82 ug/ml
RT: 6.198 min Scan# 767
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 94 Resp: 37576

Ion	Ratio	Lower	Upper
94	100		
65	31.8	26.0	39.0
66	44.7	33.8	50.8

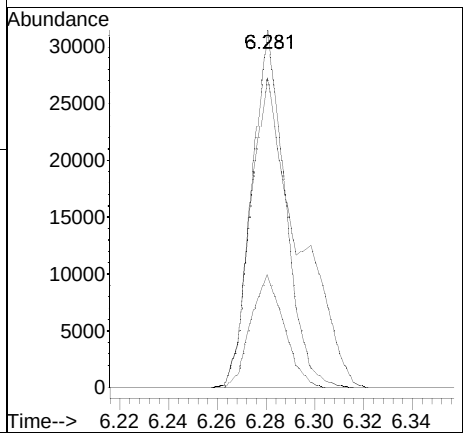


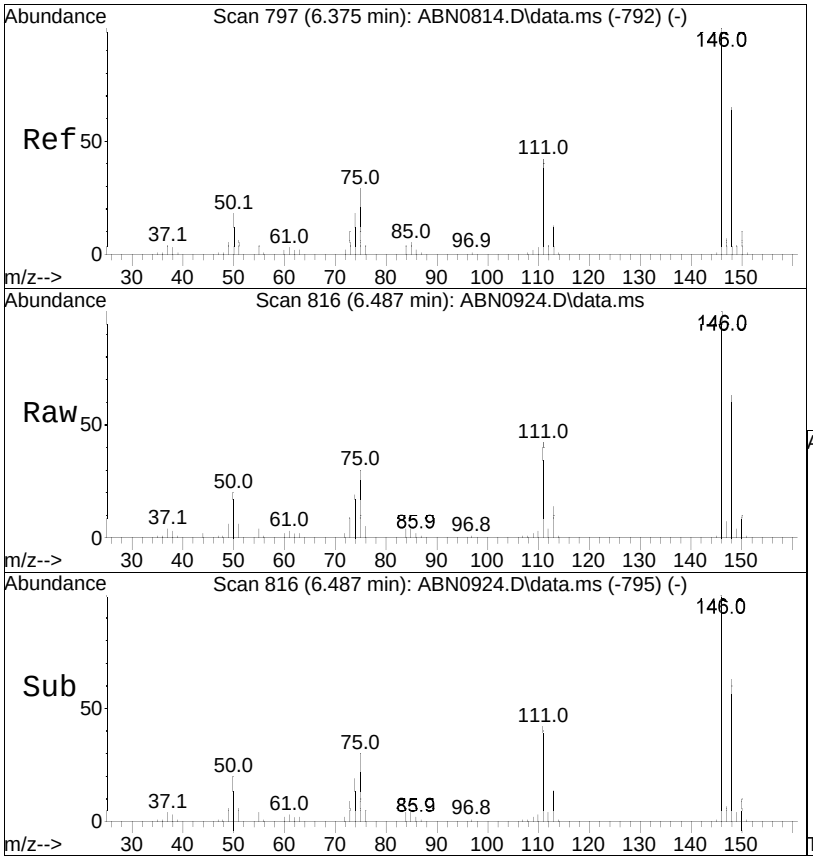


#9
Bis(2-chloroethyl)ether
Concen: 4.79 ug/ml
RT: 6.281 min Scan# 781
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 93 Resp: 29734

Ion	Ratio	Lower	Upper
93	100		
63	123.7	74.6	111.8#
95	31.6	25.9	38.9

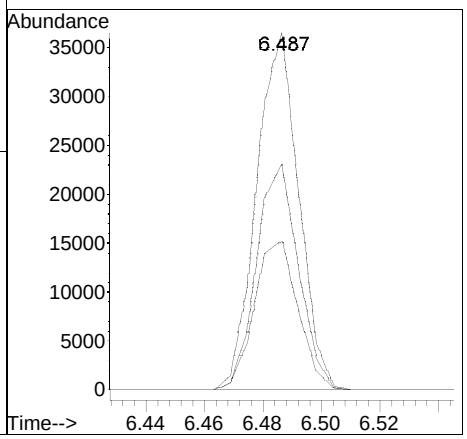


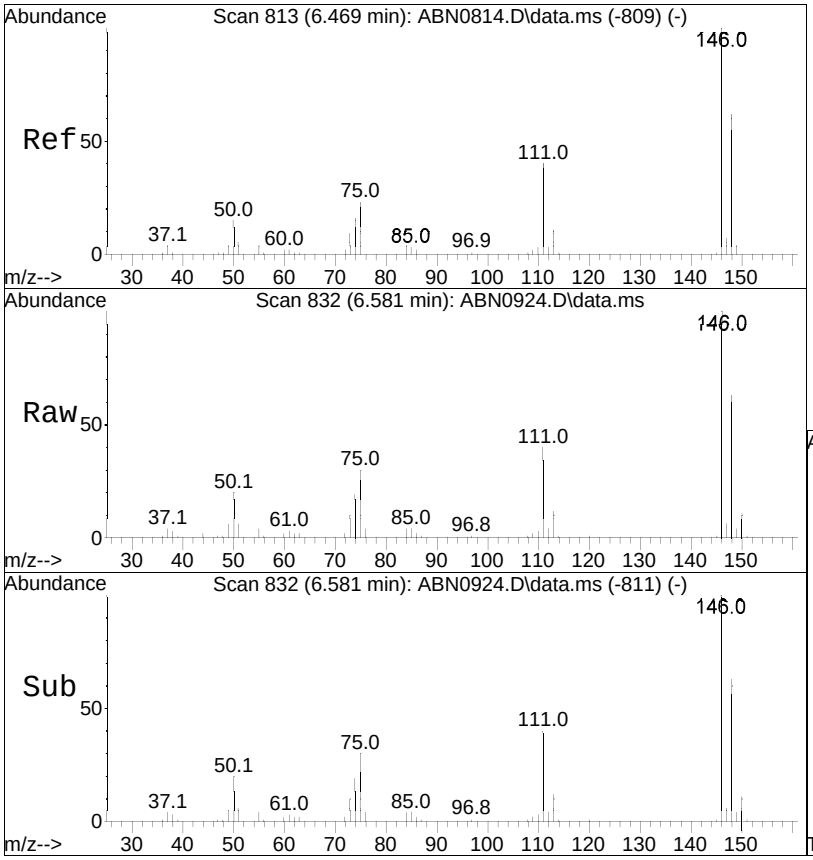


#10
1,3-Dichlorobenzene
Concen: 4.59 ug/ml
RT: 6.487 min Scan# 816
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:146 Resp: 36323

Ion	Ratio	Lower	Upper
146	100		
111	43.6	34.3	51.5
148	63.1	50.8	76.2

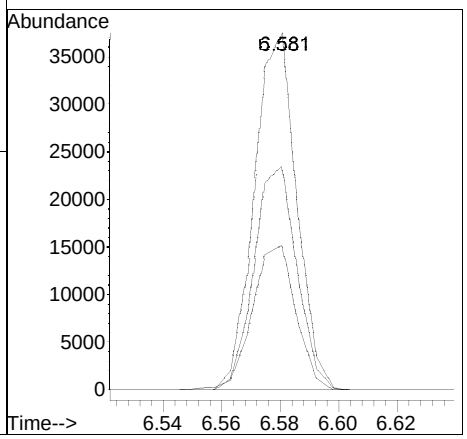


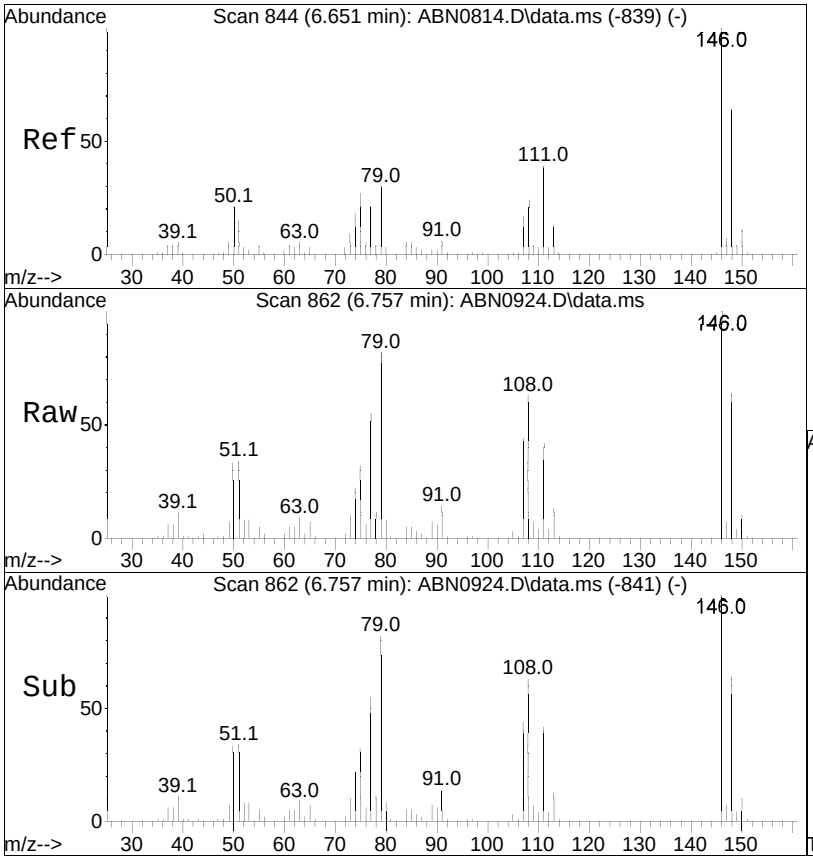


#11
1,4-Dichlorobenzene
Concen: 4.69 ug/ml
RT: 6.581 min Scan# 832
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:146 Resp: 37389

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.7	76.1
111	41.9	33.4	50.0

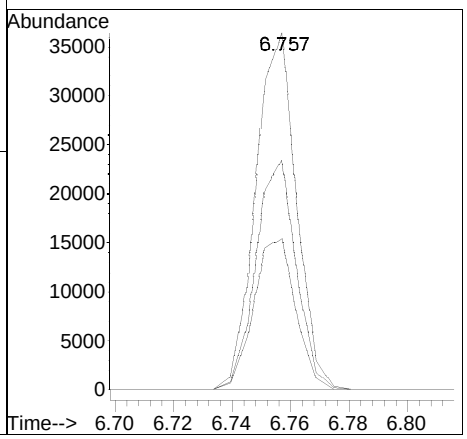


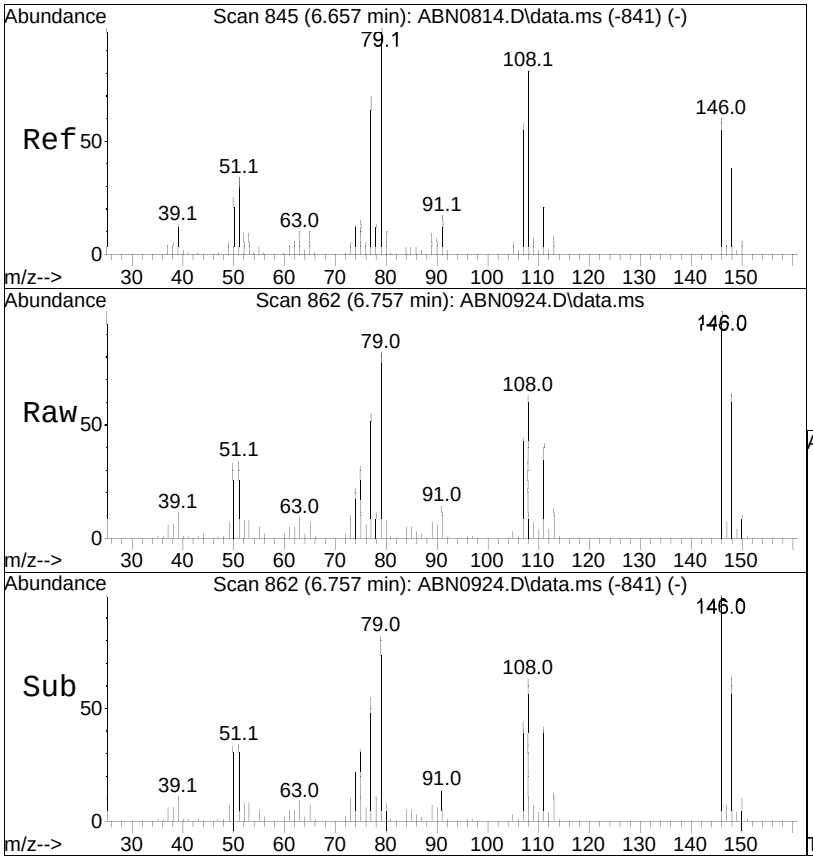


#12
1,2-Dichlorobenzene
Concen: 4.51 ug/ml
RT: 6.757 min Scan# 862
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:146 Resp: 35075

Ion	Ratio	Lower	Upper
146	100		
111	43.7	34.6	52.0
148	63.7	50.2	75.4

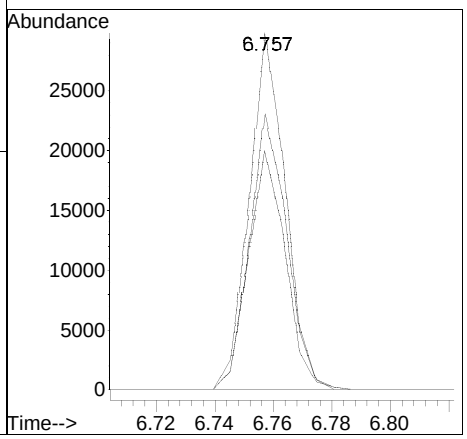


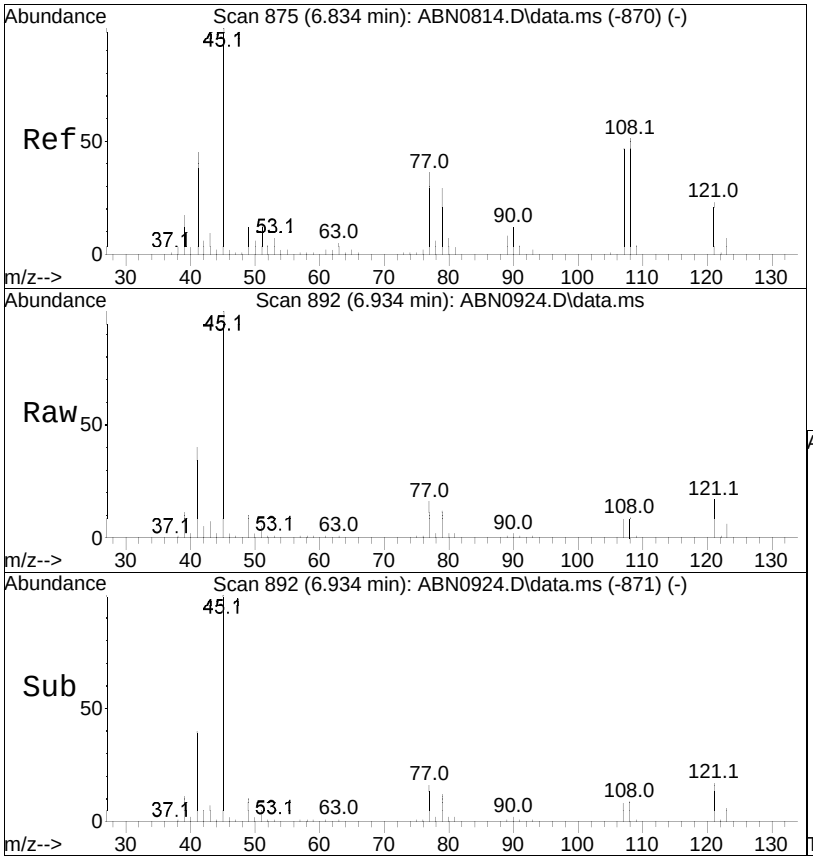


#13
Benzyl alcohol
Concen: 5.07 ug/ml
RT: 6.757 min Scan# 862
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 79 Resp: 25513

Ion	Ratio	Lower	Upper
79	100		
77	68.6	54.9	82.3
108	79.5	63.1	94.7

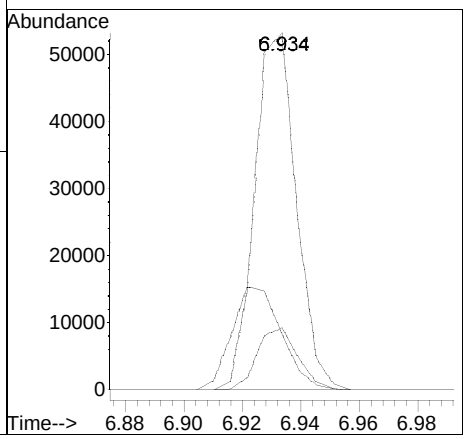


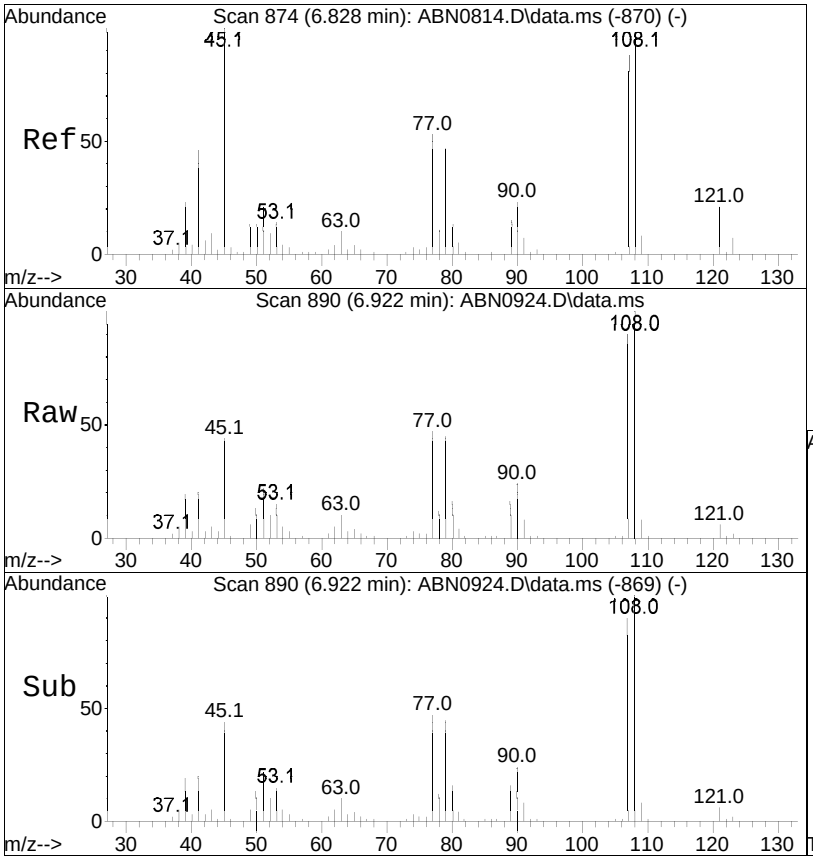


#14
Bis(2-chloroisopropyl)ether
Concen: 6.48 ug/ml
RT: 6.934 min Scan# 892
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 45 Resp: 52155

Ion	Ratio	Lower	Upper
45	100		
121	17.1	9.8	14.6#
77	34.5	6.1	9.1#

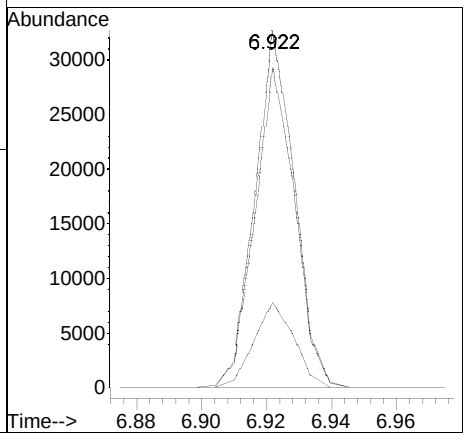


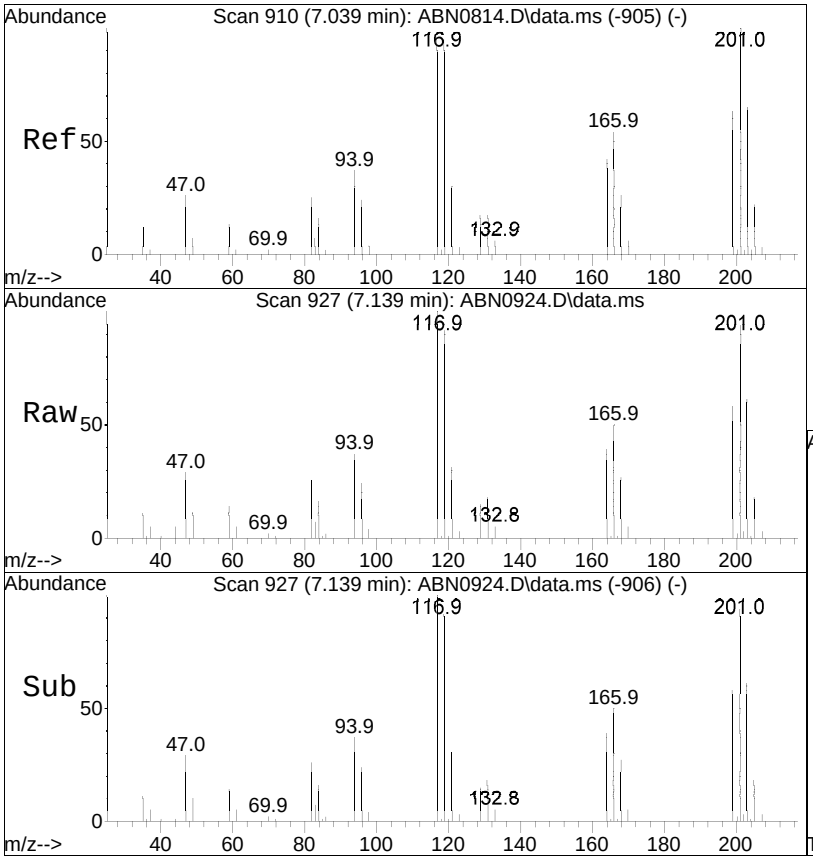


#15
2-Methylphenol
Concen: 4.89 ug/ml
RT: 6.922 min Scan# 890
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:108 Resp: 27424

Ion	Ratio	Lower	Upper
108	100		
107	90.9	70.7	106.1
90	24.3	18.7	28.1

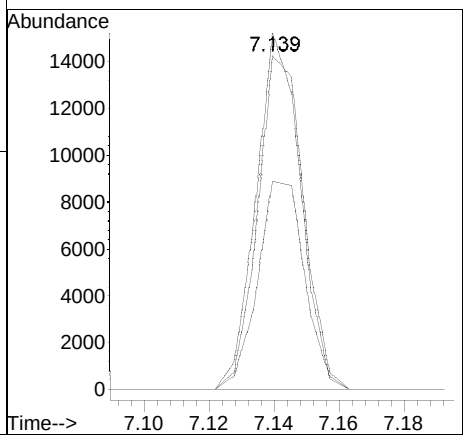


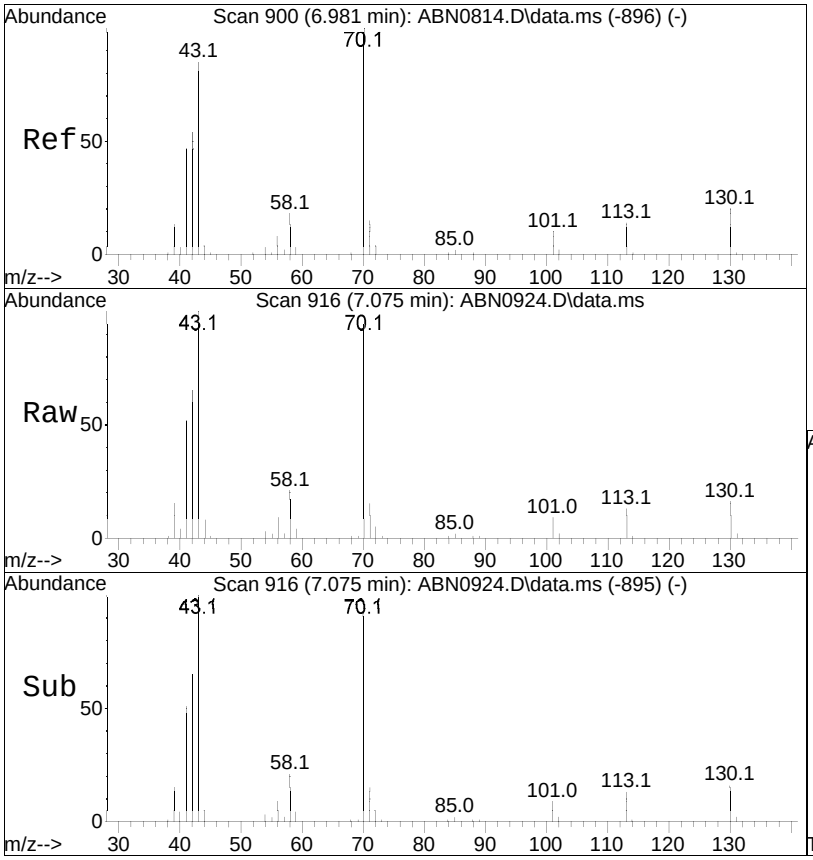


#16
Hexachloroethane
Concen: 5.11 ug/ml
RT: 7.139 min Scan# 927
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:117 Resp: 14316

Ion	Ratio	Lower	Upper
117	100		
201	97.2	58.6	87.8#
199	62.2	36.9	55.3#

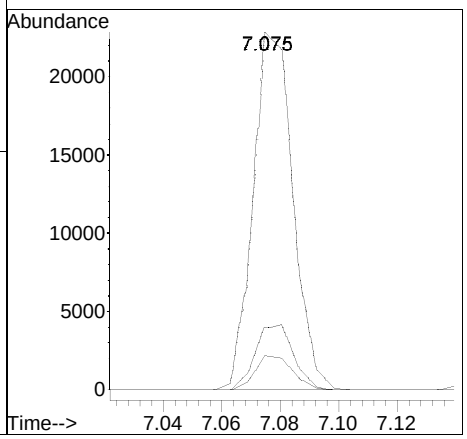


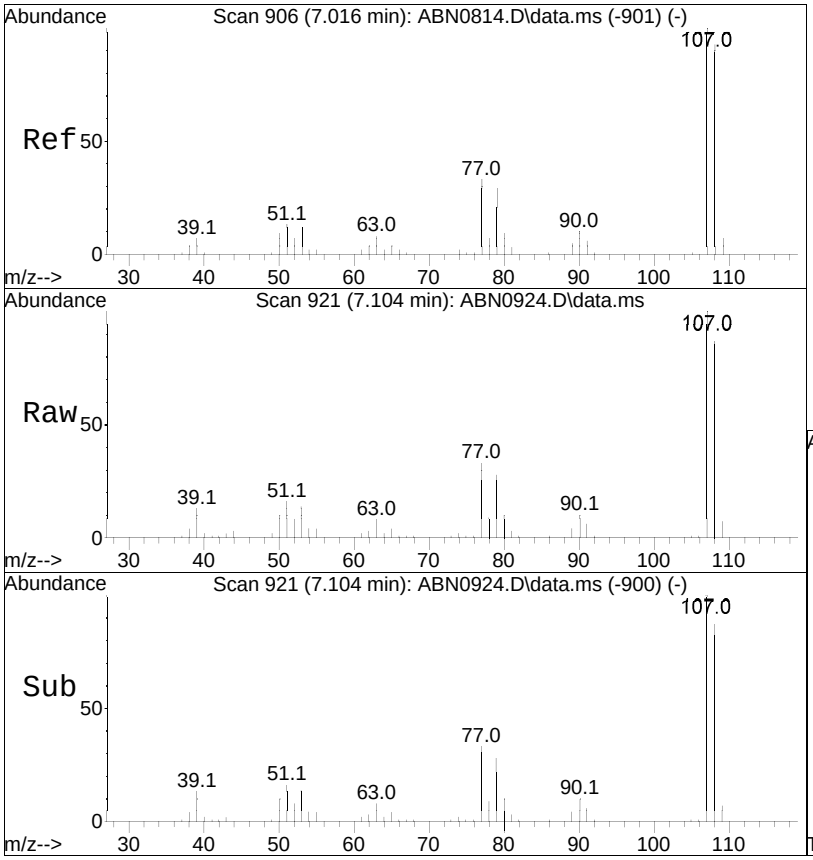


#17
n-Nitrosodi-n-propylamine
Concen: 4.98 ug/ml
RT: 7.075 min Scan# 916
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 70 Resp: 21387

Ion	Ratio	Lower	Upper
70	100		
130	17.7	18.2	27.4#
101	9.2	7.8	11.8

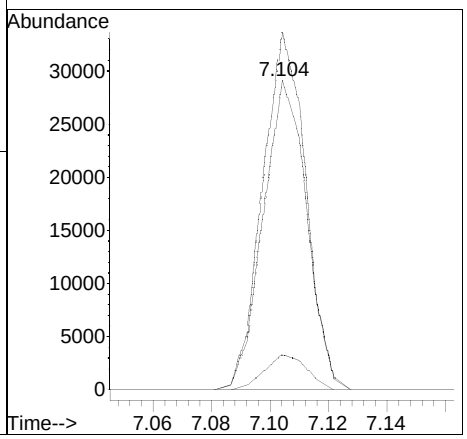


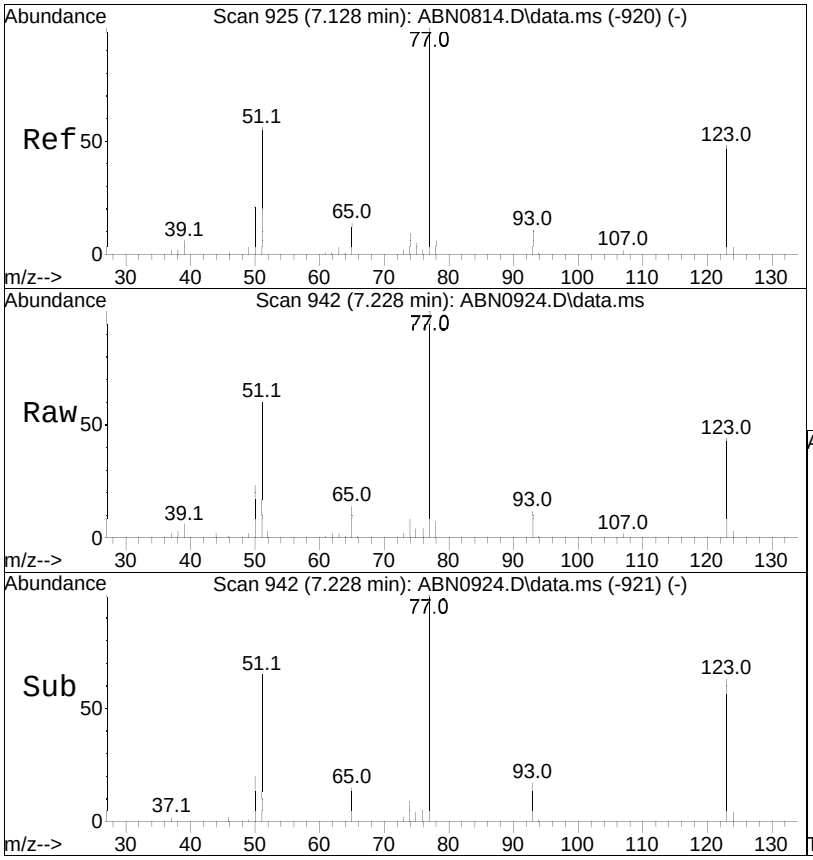


#18
3-Methylphenol/4-Methylphenol
Concen: 4.82 ug/ml
RT: 7.104 min Scan# 921
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:108 Resp: 29799

Ion	Ratio	Lower	Upper
108	100		
107	114.8	88.6	132.8
90	11.1	8.8	13.2

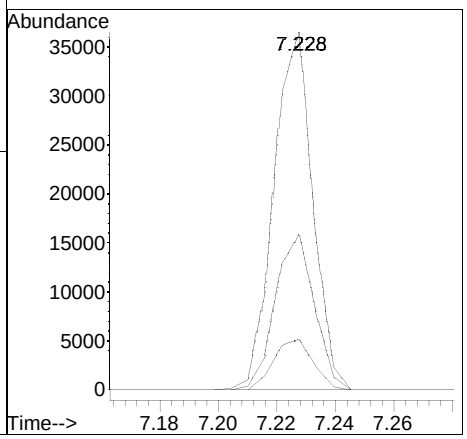


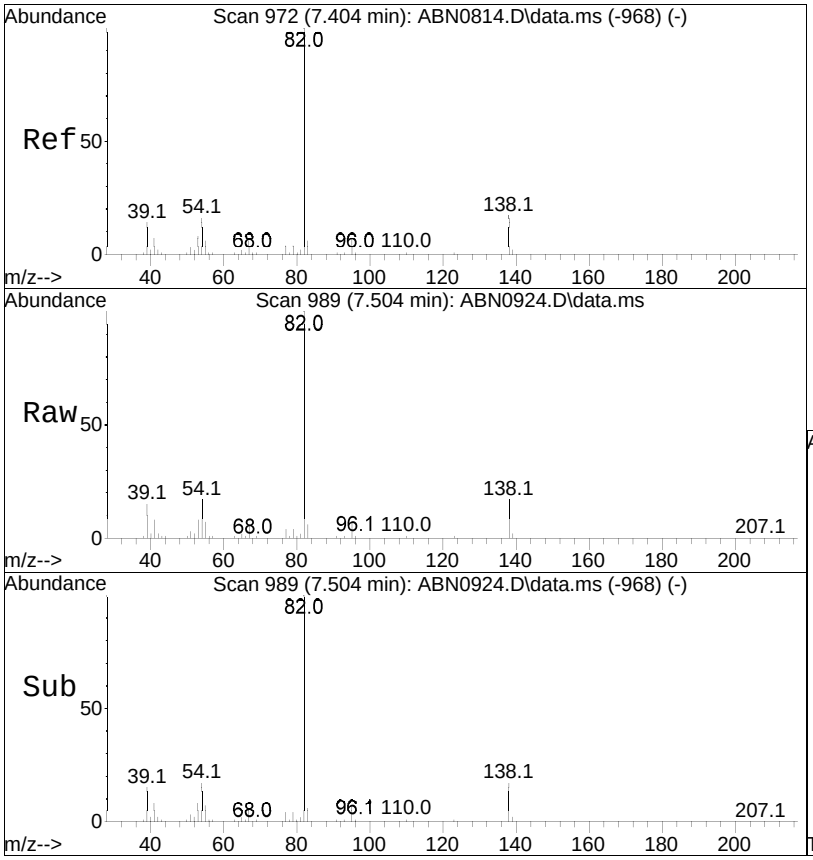


#20
Nitrobenzene
Concen: 5.13 ug/ml
RT: 7.228 min Scan# 942
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 77 Resp: 33486

Ion	Ratio	Lower	Upper
77	100		
123	43.7	36.3	54.5
65	14.4	11.6	17.4

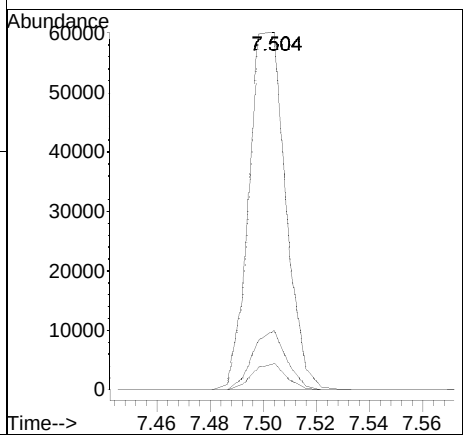


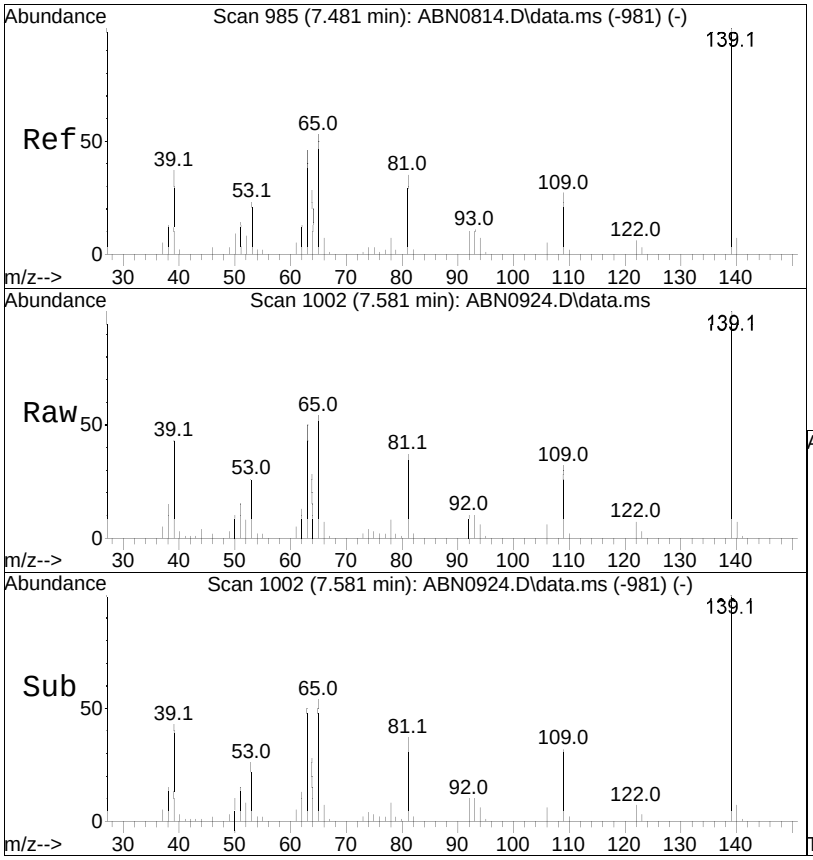


#21
Isophorone
Concen: 4.89 ug/ml
RT: 7.504 min Scan# 989
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 82 Resp: 57048

Ion	Ratio	Lower	Upper
82	100		
138	15.4	14.7	22.1
95	6.8	5.2	7.8

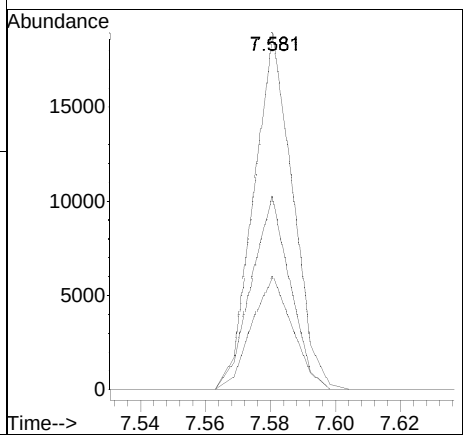


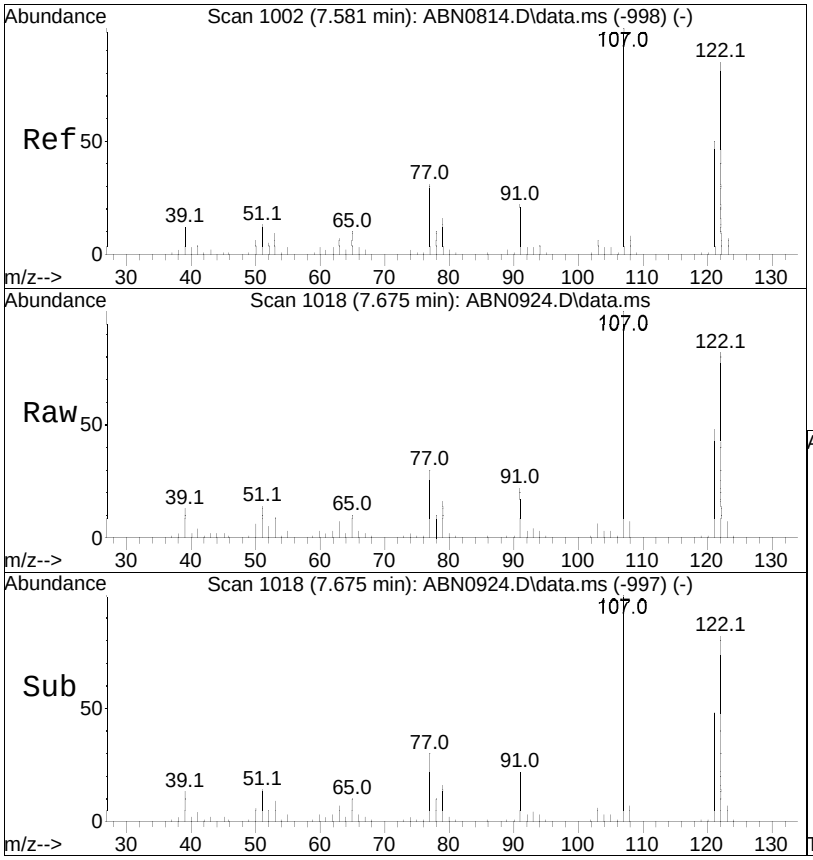


#22
2-Nitrophenol
Concen: 4.73 ug/ml
RT: 7.581 min Scan# 1002
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:139 Resp: 15710

Ion	Ratio	Lower	Upper
139	100		
109	33.1	19.4	29.0#
65	54.2	46.1	69.1

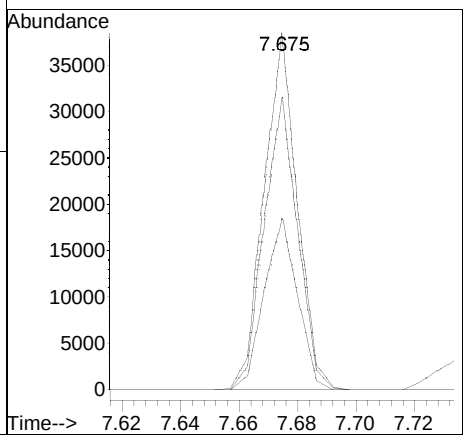


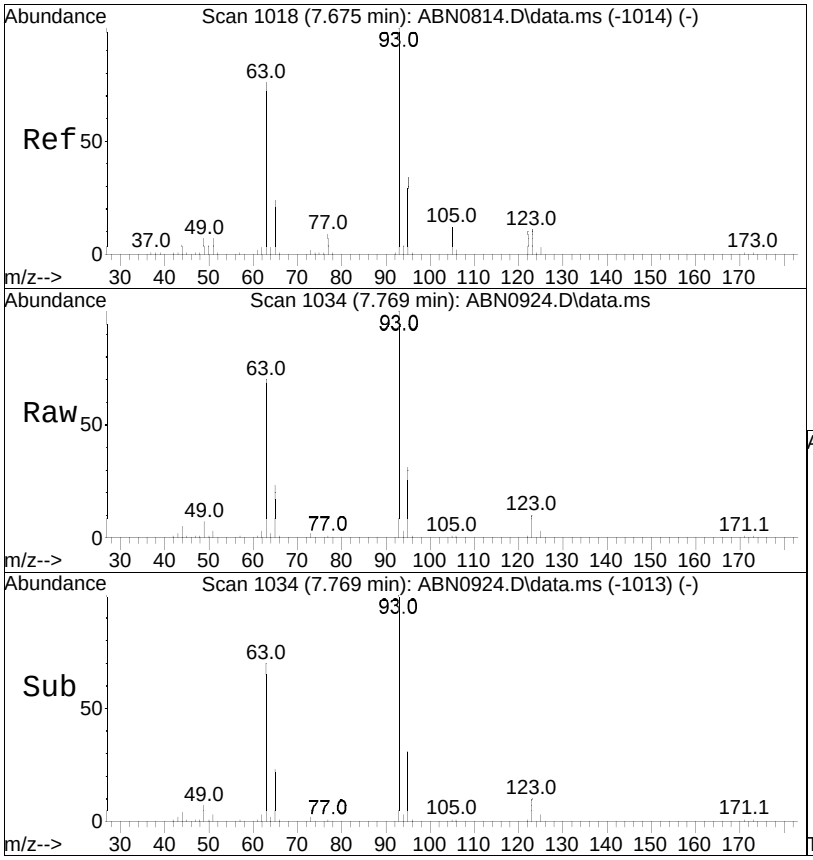


#23
2,4-Dimethylphenol
Concen: 5.59 ug/ml
RT: 7.675 min Scan# 1018
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:107 Resp: 30101

Ion	Ratio	Lower	Upper
107	100		
121	48.4	40.0	60.0
122	82.6	70.2	105.4

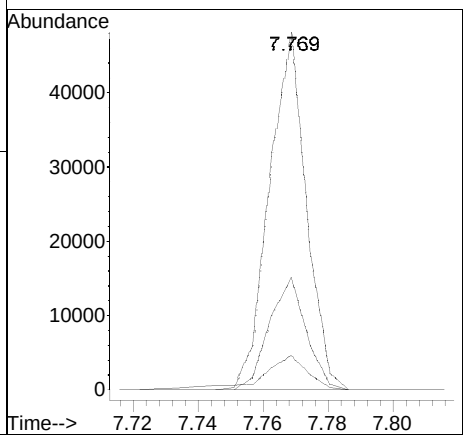


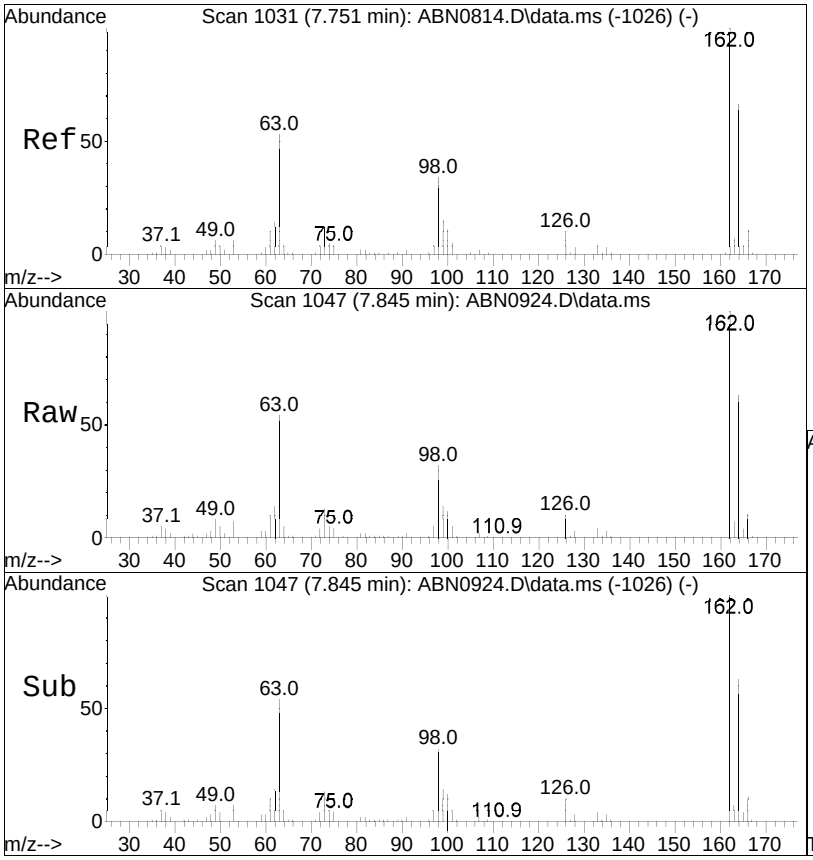


#24
Bis(2-chloroethoxy)methane
Concen: 4.75 ug/ml
RT: 7.769 min Scan# 1034
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 93 Resp: 37493

Ion	Ratio	Lower	Upper
93	100		
95	31.5	25.8	38.8
123	11.8	10.1	15.1

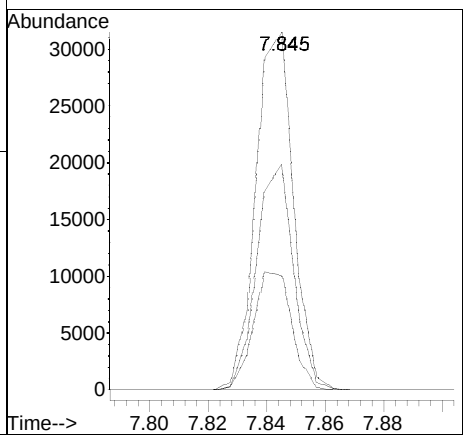


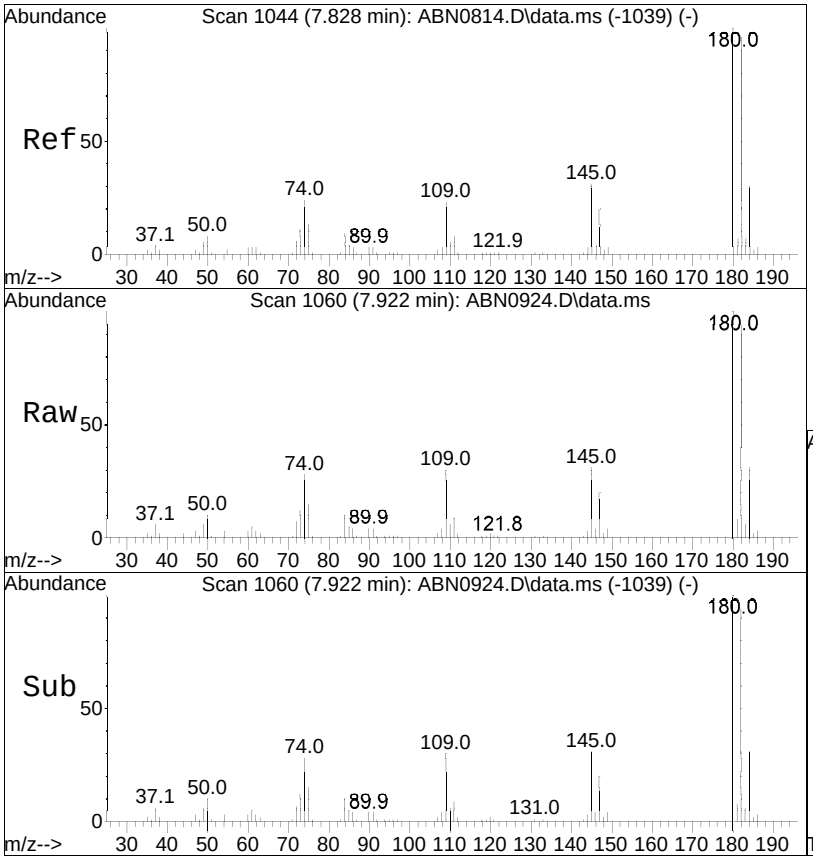


#25
2,4-Dichlorophenol
Concen: 4.75 ug/ml
RT: 7.845 min Scan# 1047
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:162 Resp: 27939

Ion	Ratio	Lower	Upper
162	100		
164	61.9	51.0	76.4
98	33.9	32.2	48.2

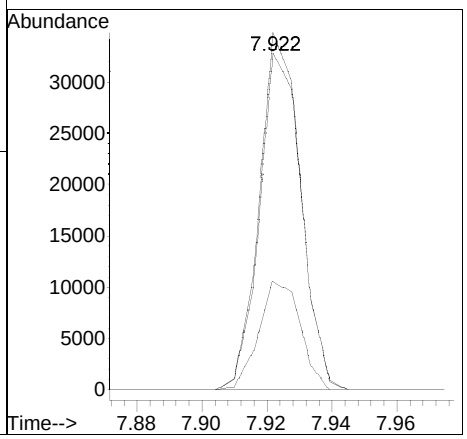


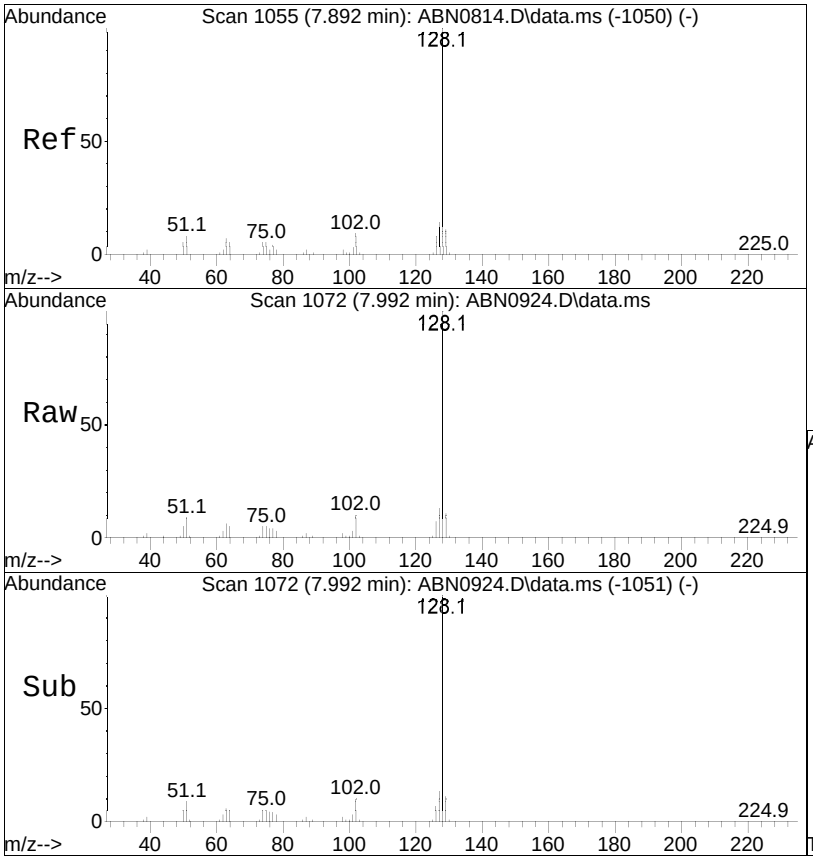


#26
1,2,4-Trichlorobenzene
Concen: 4.36 ug/ml
RT: 7.922 min Scan# 1060
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:180 Resp: 30515

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.0	114.0
145	30.8	25.7	38.5

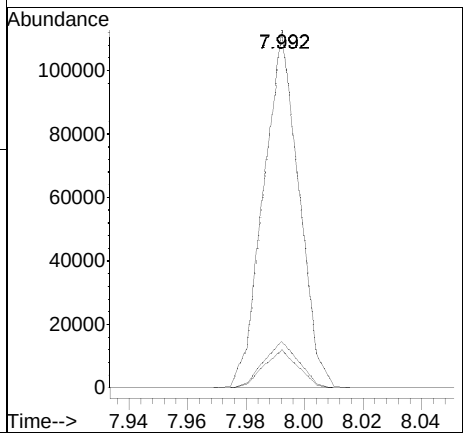


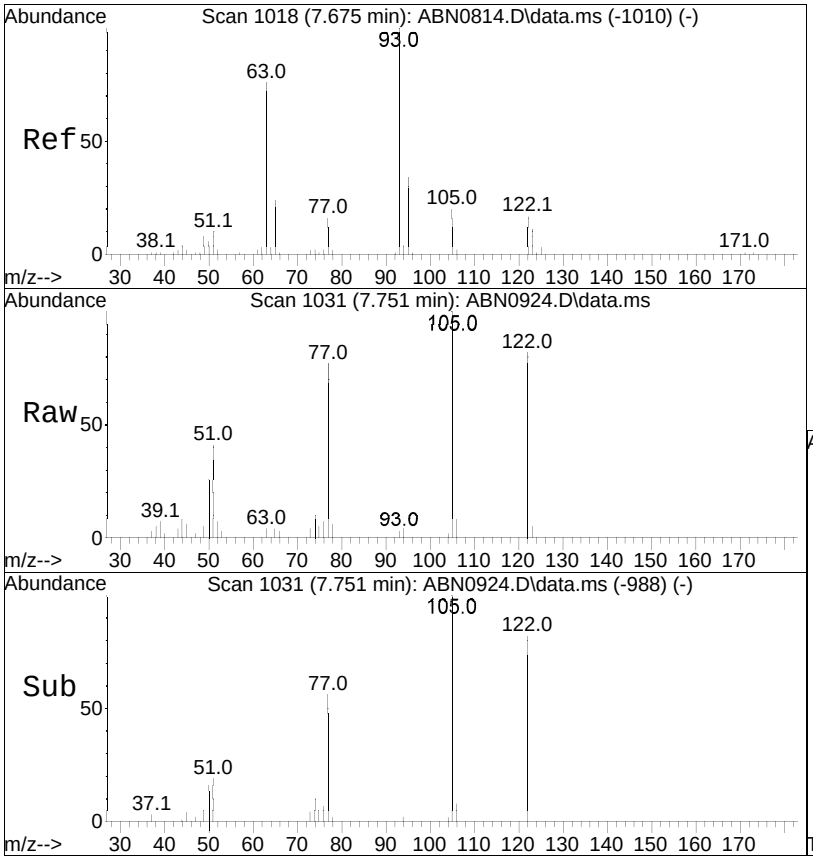


#36
Naphthalene
Concen: 4.66 ug/ml
RT: 7.992 min Scan# 1072
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:128 Resp: 93444

Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.7	13.1
127	13.1	10.3	15.5

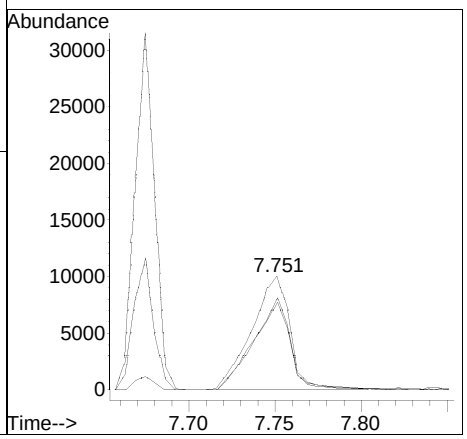


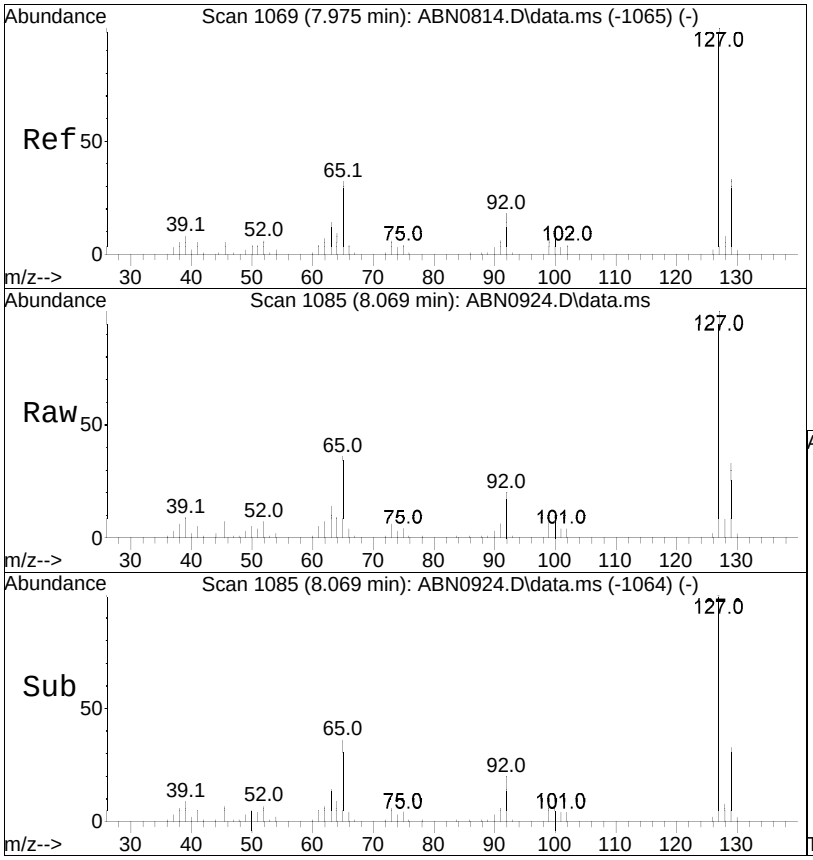


#37
Benzoic Acid
Concen: 4.77 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:105 Resp: 15858

Ion	Ratio	Lower	Upper
105	100		
122	76.4	59.9	89.9
77	76.0	60.1	90.1

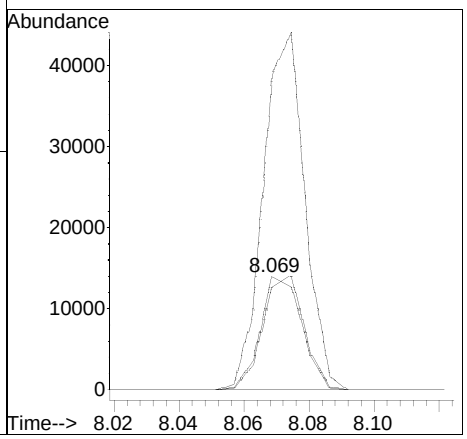


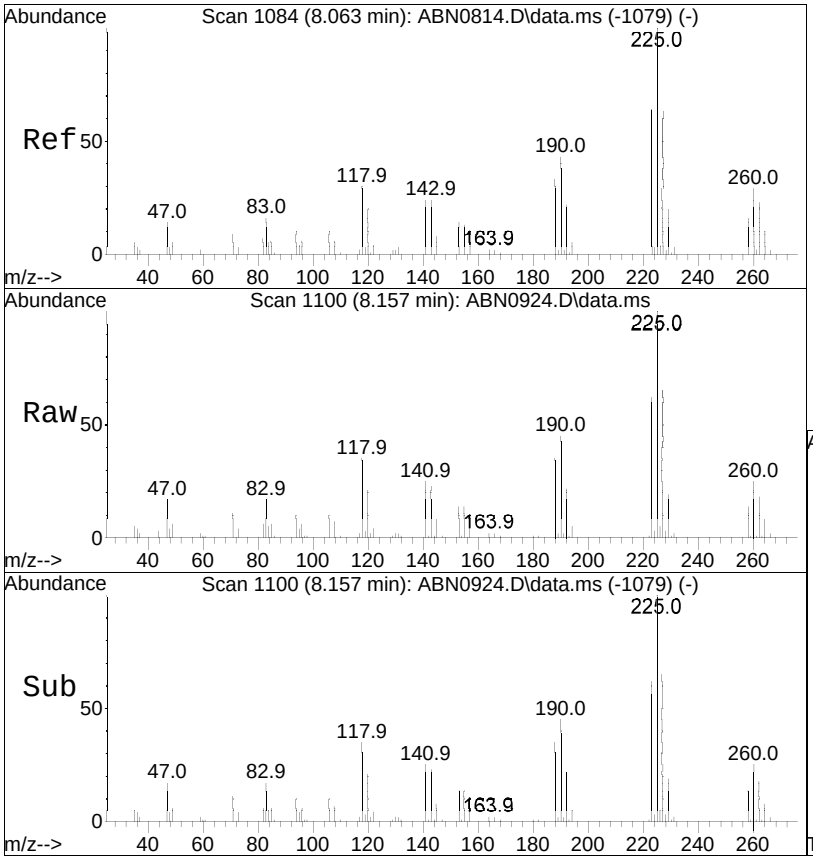


#38
4-Chloroaniline
Concen: 5.51 ug/ml
RT: 8.069 min Scan# 1085
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 65 Resp: 12337

Ion	Ratio	Lower	Upper
65	100		
127	313.6	237.6	356.4
129	100.4	76.3	114.5

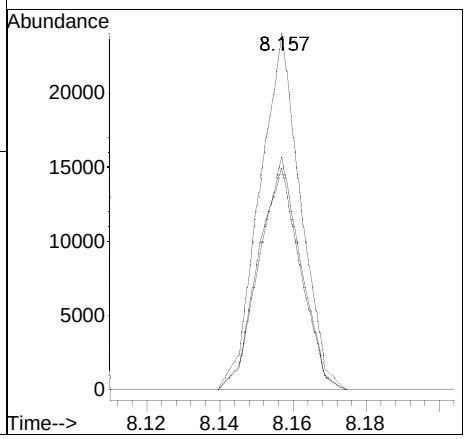


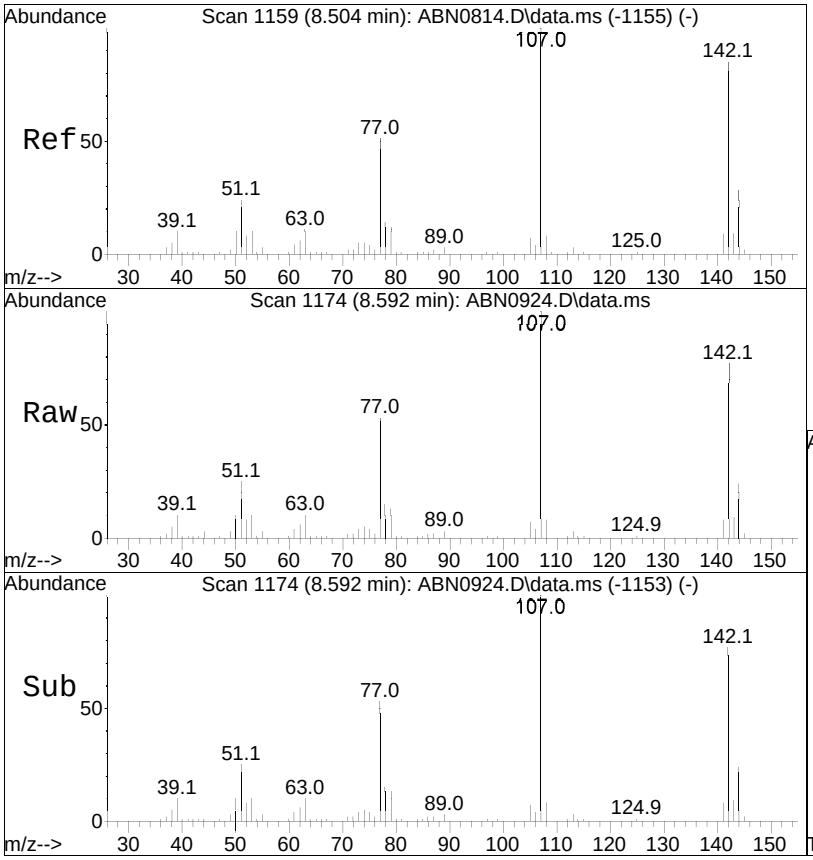


#39
Hexachlorobutadiene
Concen: 4.69 ug/ml
RT: 8.157 min Scan# 1100
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:225 Resp: 18573

Ion	Ratio	Lower	Upper
225	100		
223	65.1	50.3	75.5
227	66.1	52.2	78.2

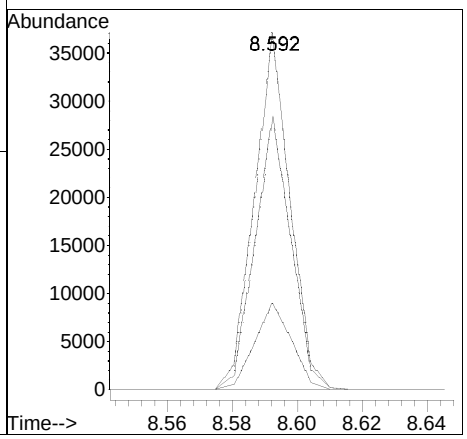


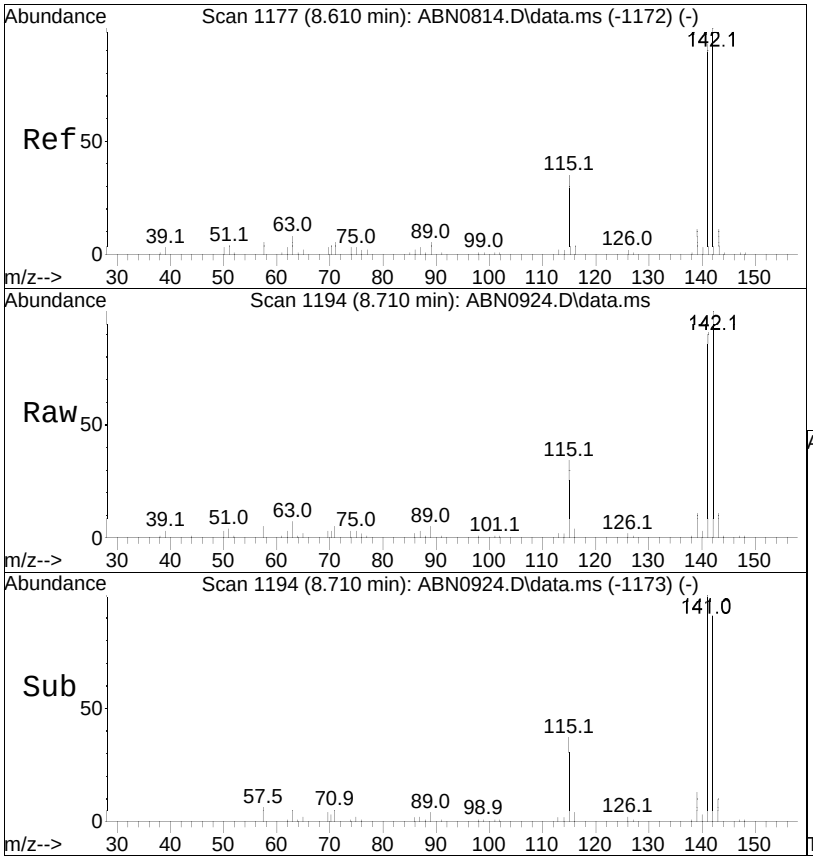


#40
p-Chloro-m-cresol
Concen: 5.58 ug/ml
RT: 8.592 min Scan# 1174
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:107 Resp: 27935

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.9	31.3
142	77.3	66.1	99.1

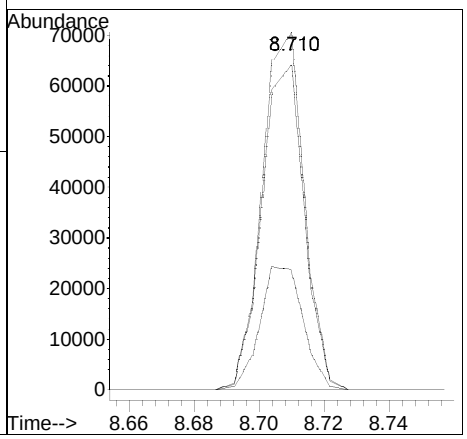


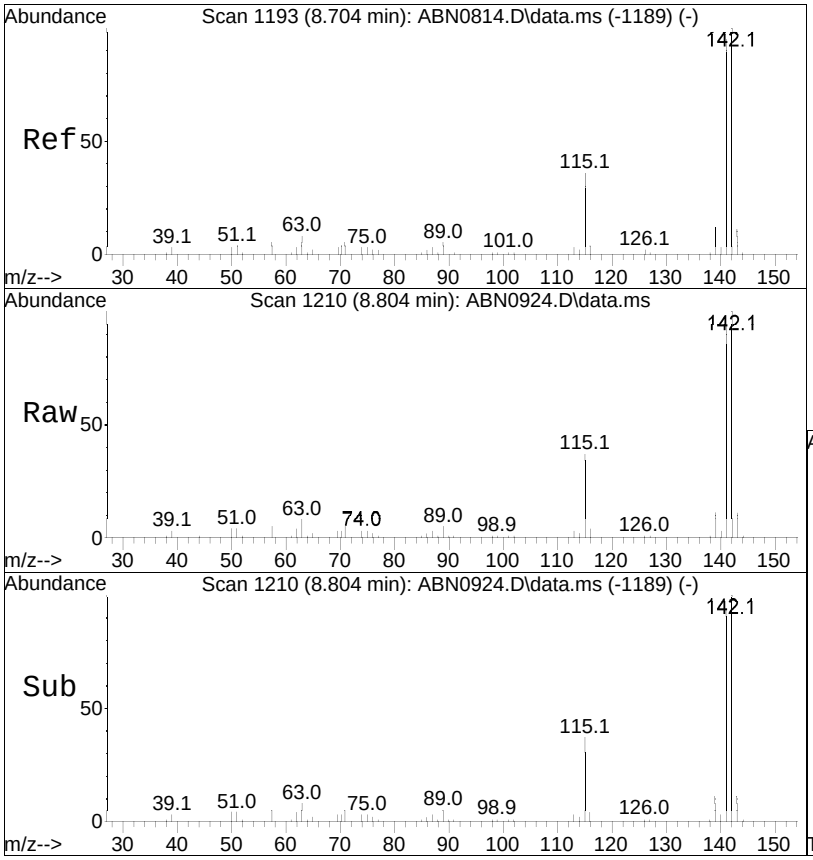


#41
2-Methylnaphthalene
Concen: 4.82 ug/ml
RT: 8.710 min Scan# 1194
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:142 Resp: 62974

Ion	Ratio	Lower	Upper
142	100		
141	91.4	69.6	104.4
115	35.6	26.6	40.0

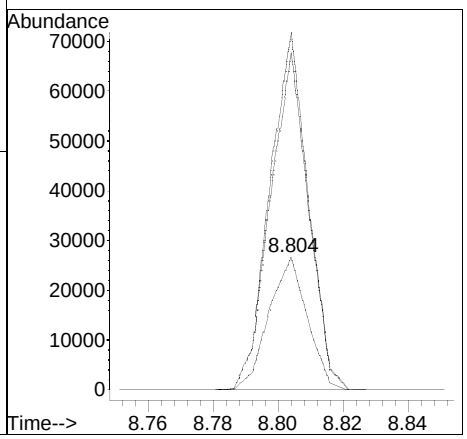


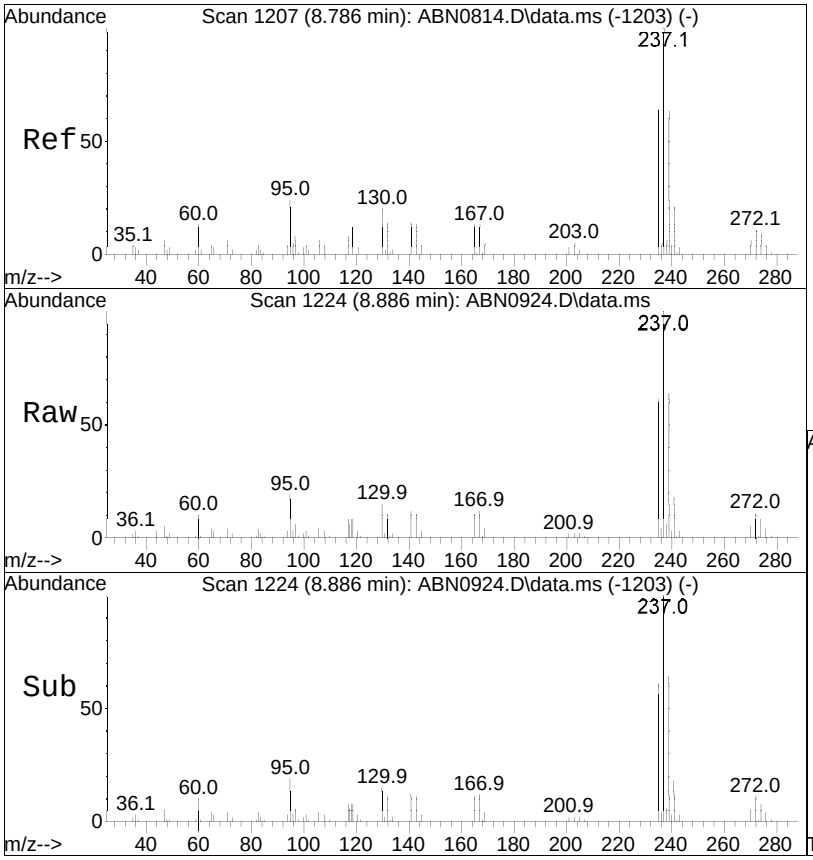


#42
1-Methylnaphthalene
Concen: 5.16 ug/ml
RT: 8.804 min Scan# 1210
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:115 Resp: 21763

Ion	Ratio	Lower	Upper
115	100		
141	251.8	207.8	311.6
142	267.2	226.8	340.2

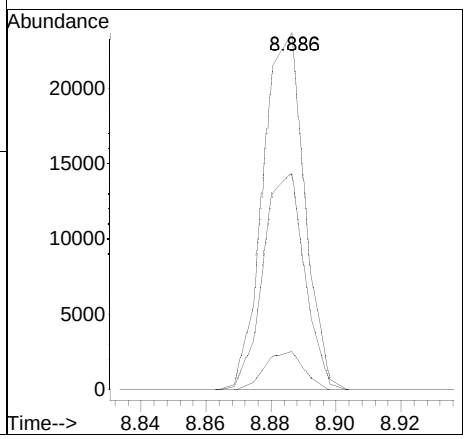


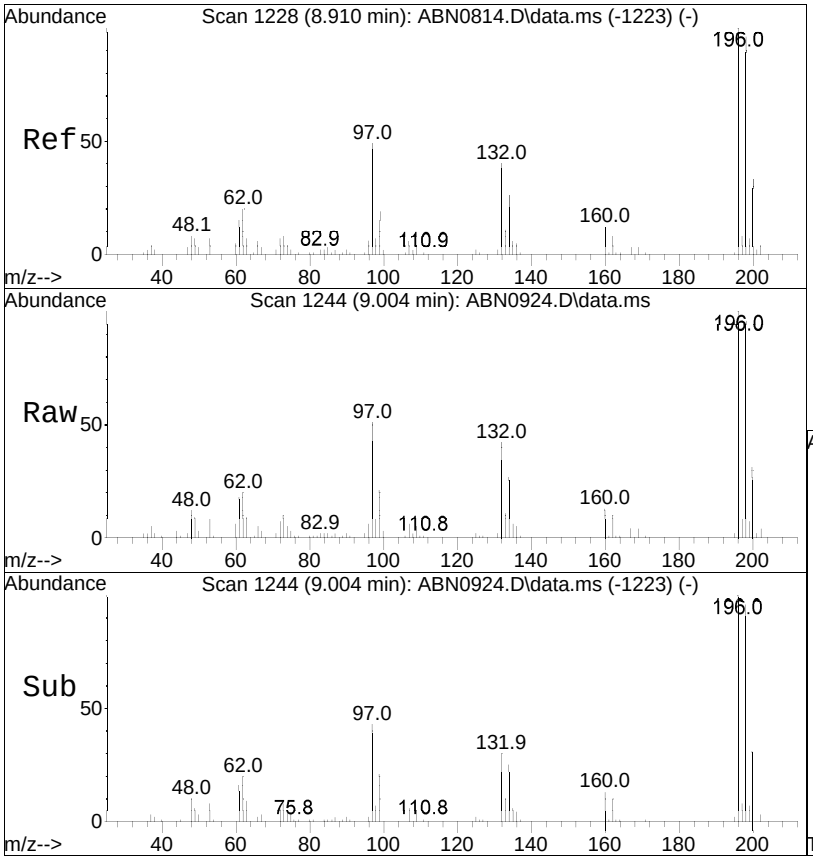


#43
Hexachlorocyclopentadiene
Concen: 5.60 ug/ml
RT: 8.886 min Scan# 1224
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:237 Resp: 20983

Ion	Ratio	Lower	Upper
237	100		
235	60.6	49.7	74.5
272	10.2	9.8	14.6

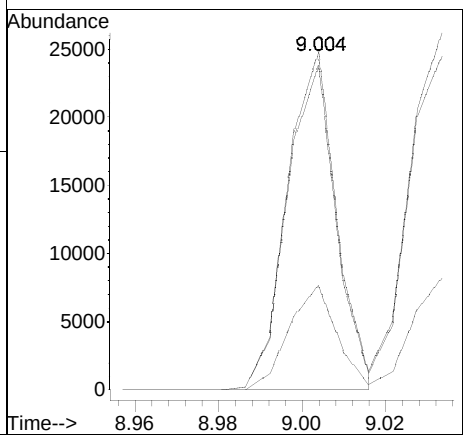


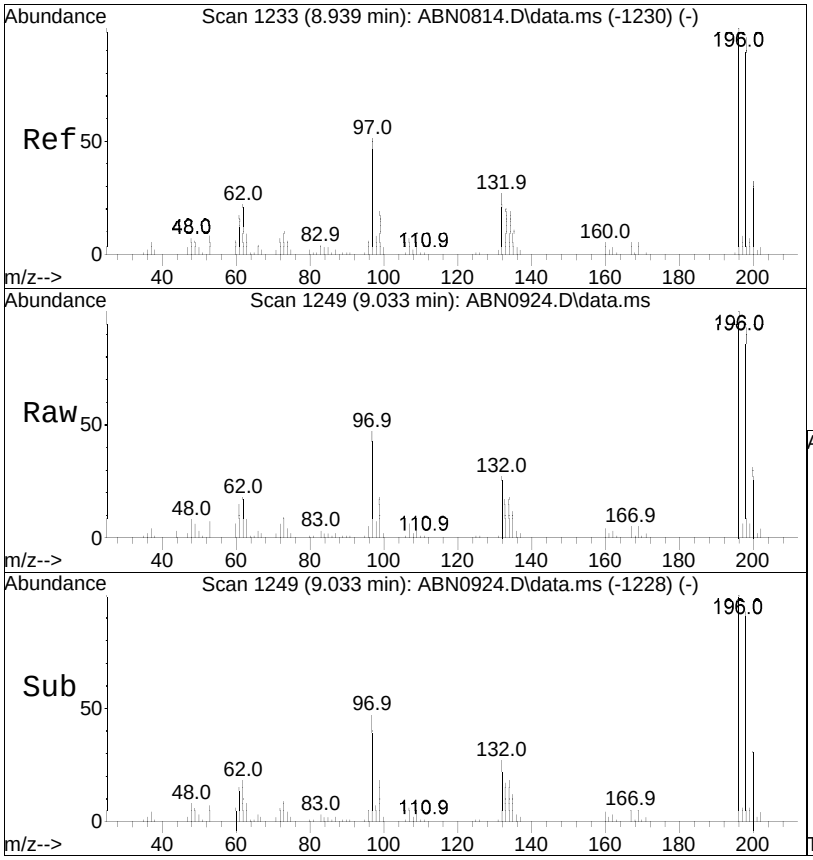


#44
2,4,6-Trichlorophenol
Concen: 4.91 ug/ml
RT: 9.004 min Scan# 1244
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:196 Resp: 20340

Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.5	116.3
200	30.2	23.8	35.6

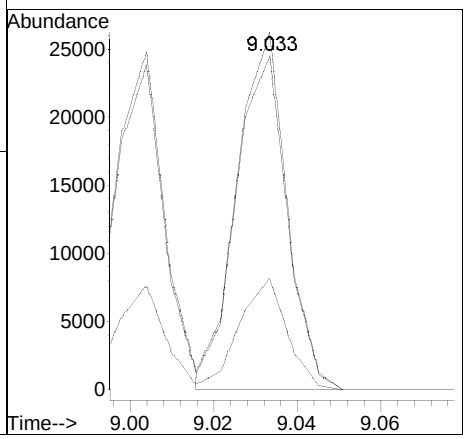


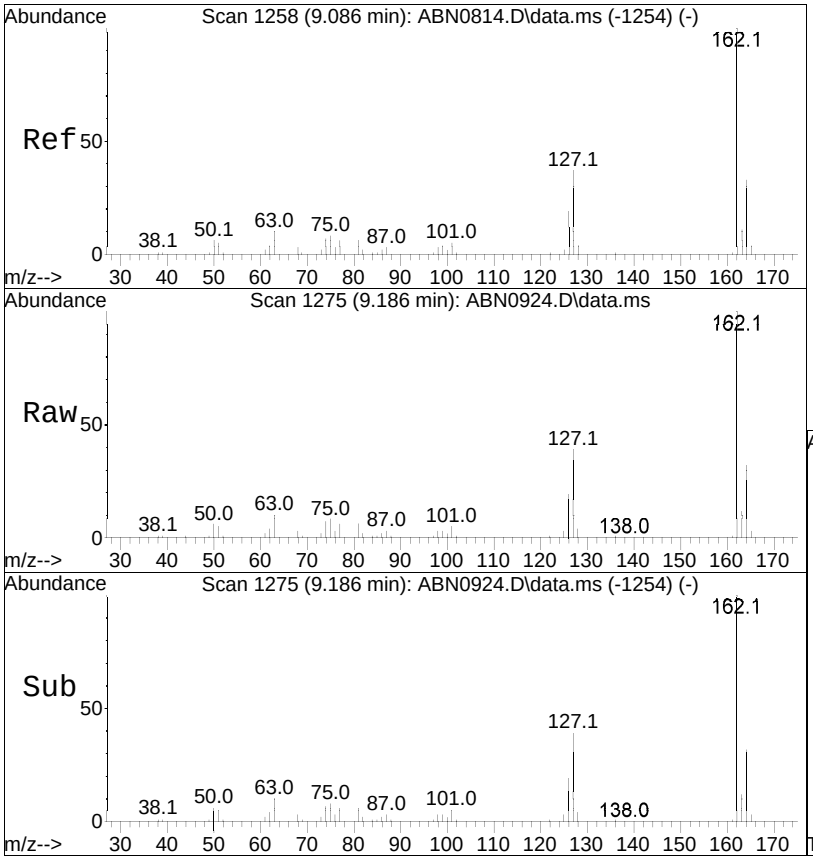


#45
2,4,5-Trichlorophenol
Concen: 4.93 ug/ml
RT: 9.033 min Scan# 1249
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:196 Resp: 21714

Ion	Ratio	Lower	Upper
196	100		
200	29.9	25.4	38.0
198	95.2	78.0	117.0

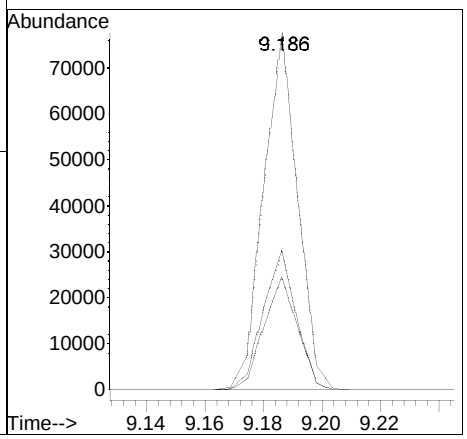


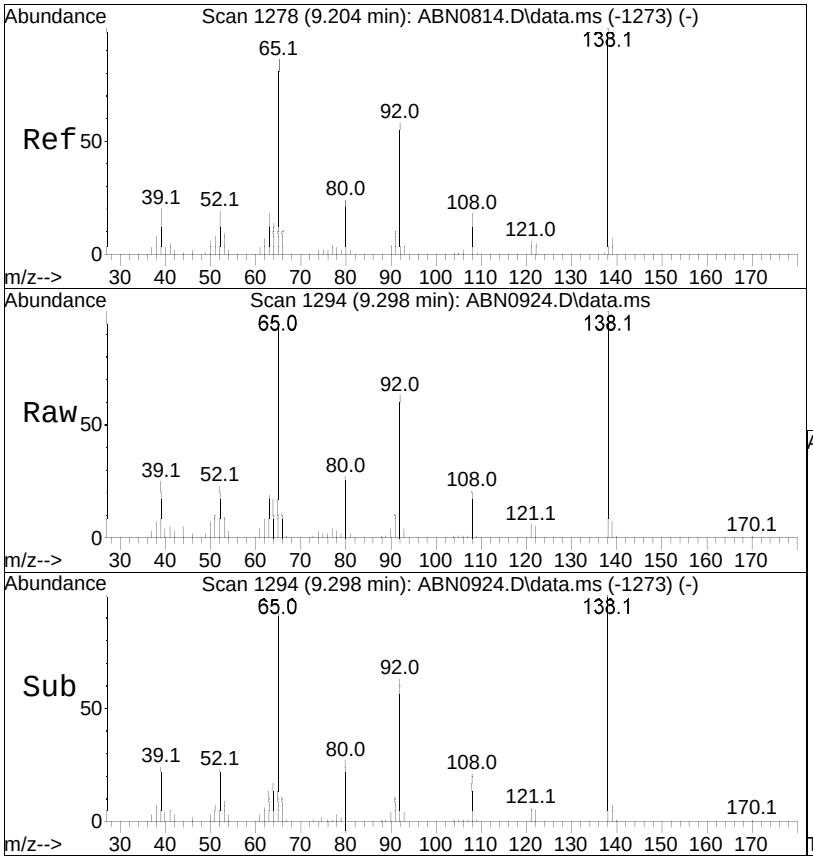


#47
2-Chloronaphthalene
Concen: 4.59 ug/ml
RT: 9.186 min Scan# 1275
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:162 Resp: 62025

Ion	Ratio	Lower	Upper
162	100		
127	38.3	32.2	48.4
164	31.7	25.7	38.5

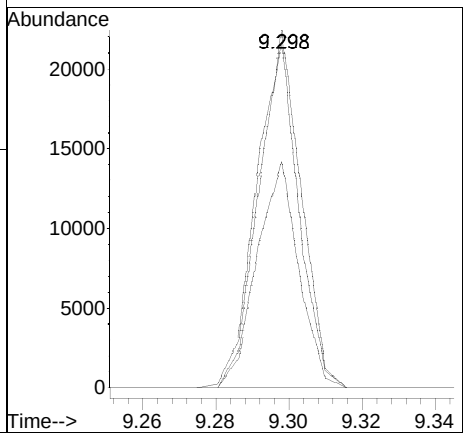


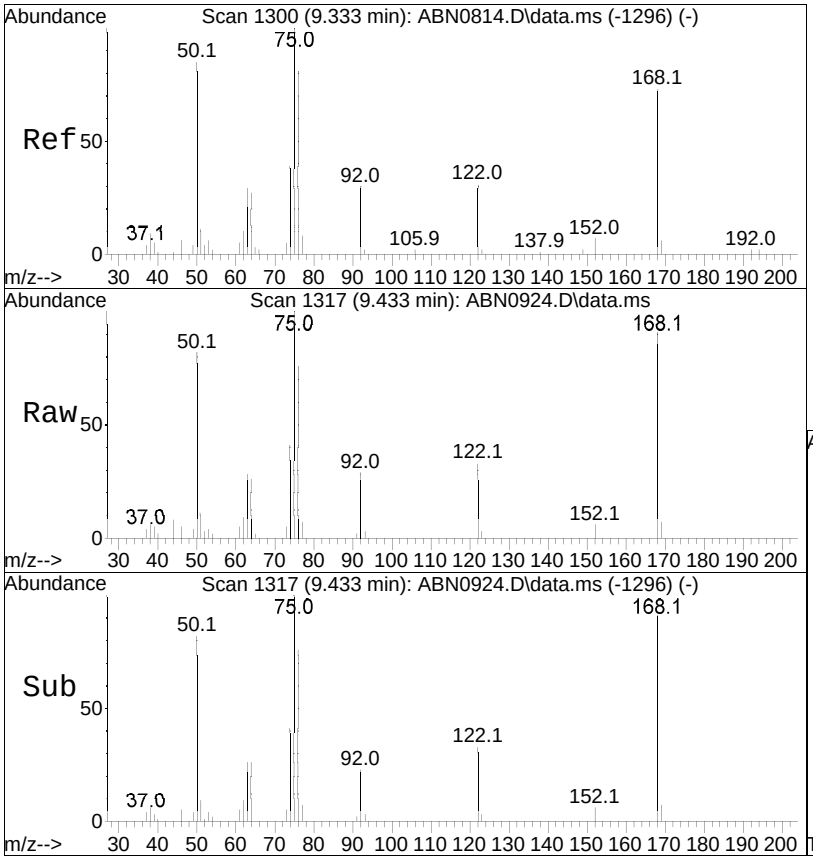


#48
2-Nitroaniline
Concen: 4.91 ug/ml
RT: 9.298 min Scan# 1294
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:138 Resp: 17733

Ion	Ratio	Lower	Upper
138	100		
92	63.2	53.5	80.3
65	98.0	86.3	129.5

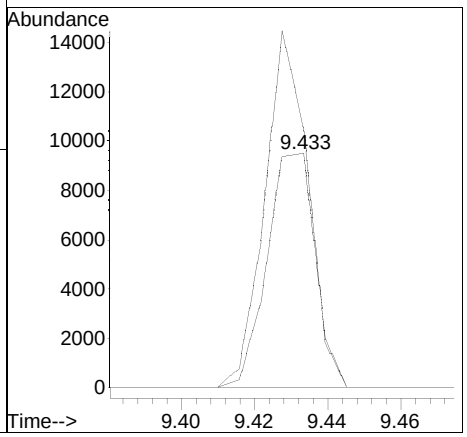


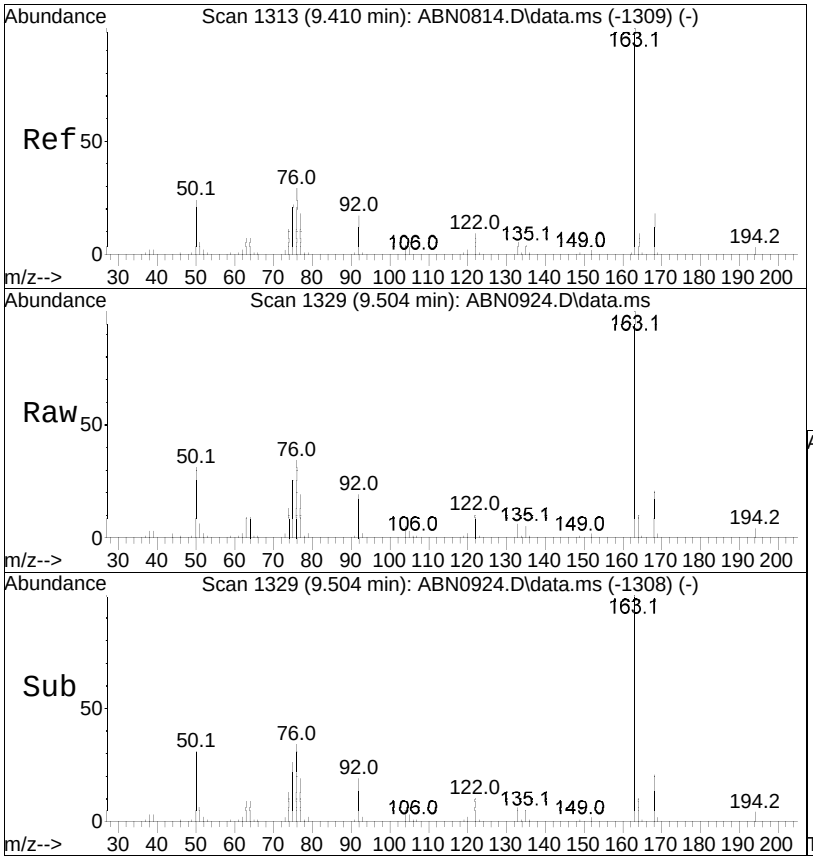


#49
1,4-Dinitrobenzene
Concen: 4.47 ug/ml
RT: 9.433 min Scan# 1317
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:168 Resp: 8703

Ion	Ratio	Lower	Upper
168	100		
75	135.6	121.8	182.8

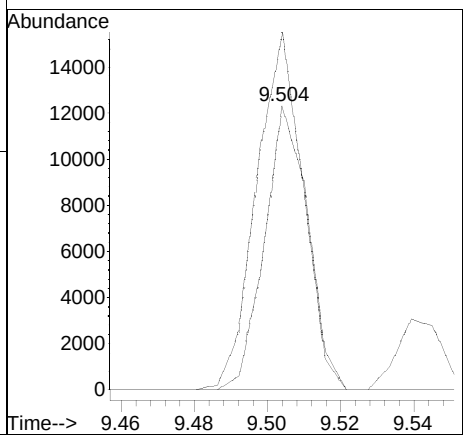


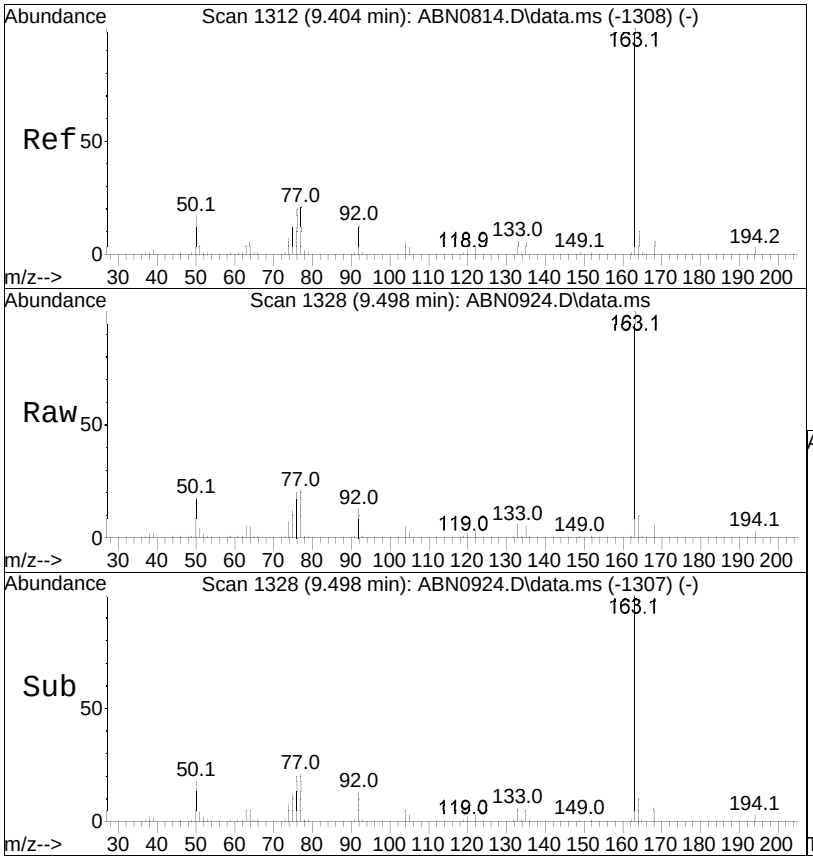


#50
1,3-Dinitrobenzene
Concen: 4.41 ug/ml
RT: 9.504 min Scan# 1329
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:168 Resp: 10076

Ion	Ratio	Lower	Upper
168	100		
75	135.1	22.7	34.1#

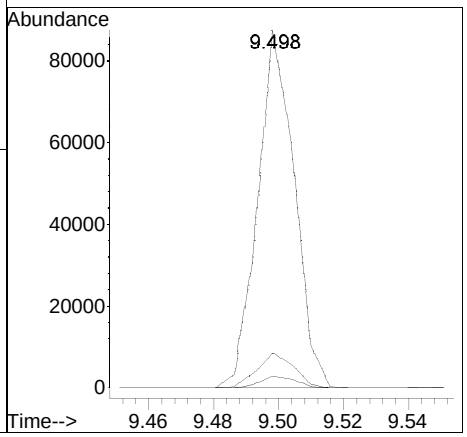


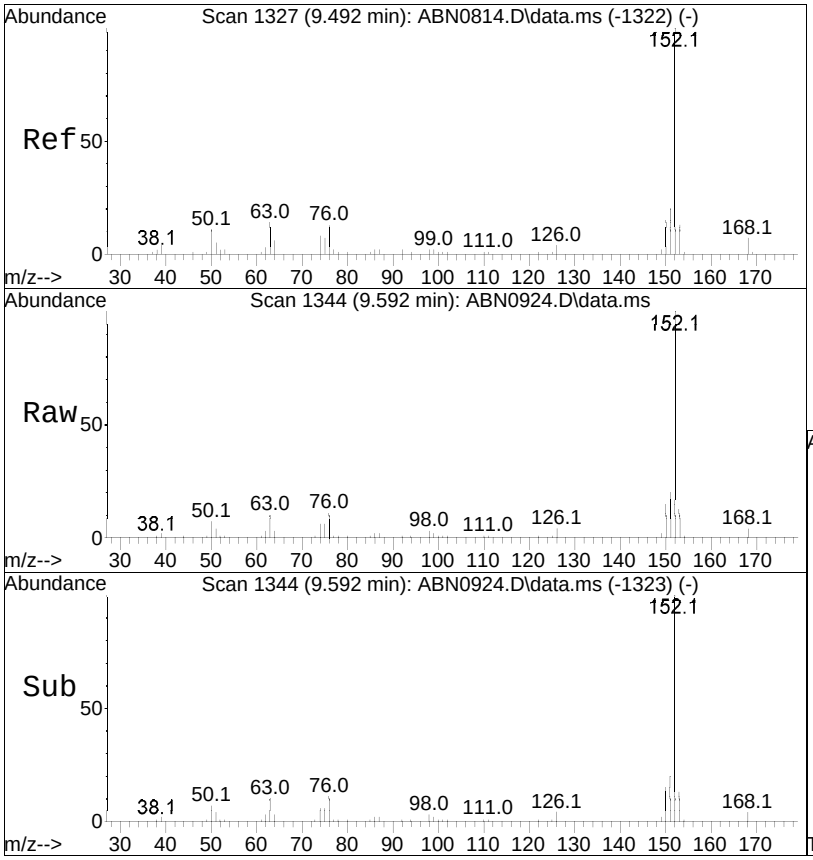


#51
Dimethyl phthalate
Concen: 4.44 ug/ml
RT: 9.498 min Scan# 1328
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:163 Resp: 67797

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	10.0	7.9	11.9

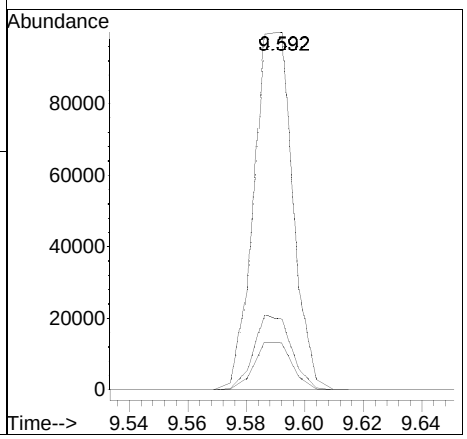


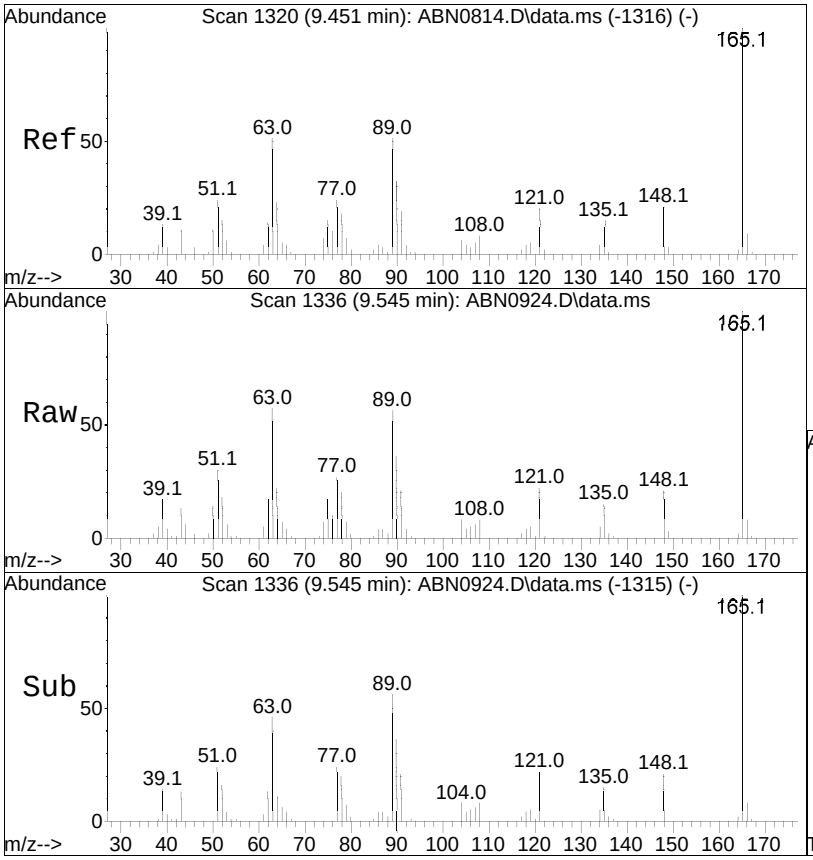


#52
Acenaphthylene
Concen: 4.55 ug/ml
RT: 9.592 min Scan# 1344
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:152 Resp: 91285

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.8	23.6
153	13.0	10.5	15.7

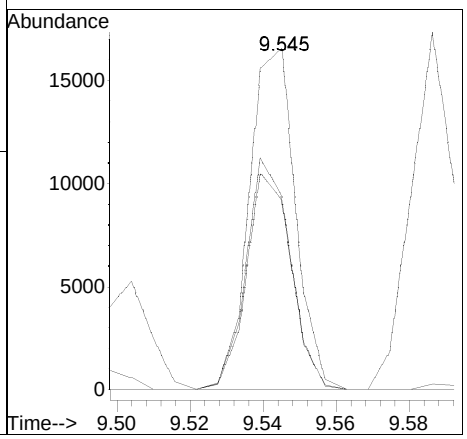


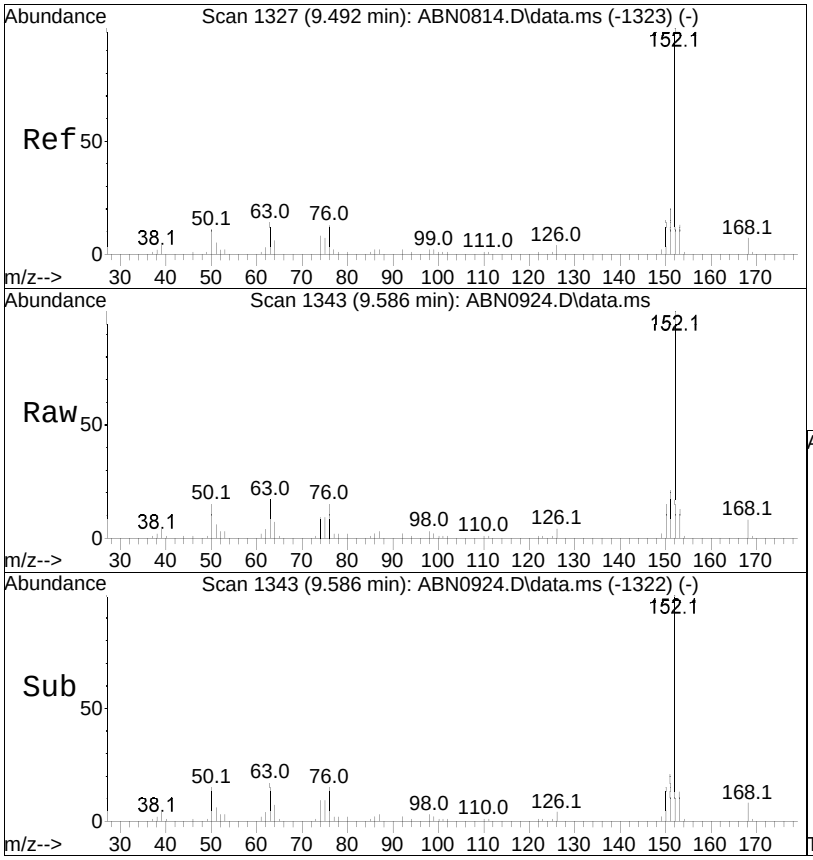


#53
2,6-Dinitrotoluene
Concen: 4.86 ug/ml
RT: 9.545 min Scan# 1336
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:165 Resp: 14538

Ion	Ratio	Lower	Upper
165	100		
89	61.3	54.2	81.2
63	64.7	64.2	96.2

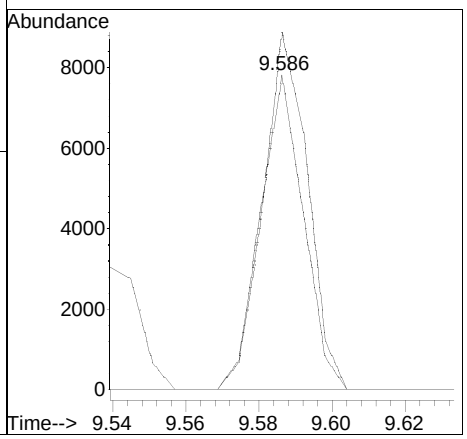


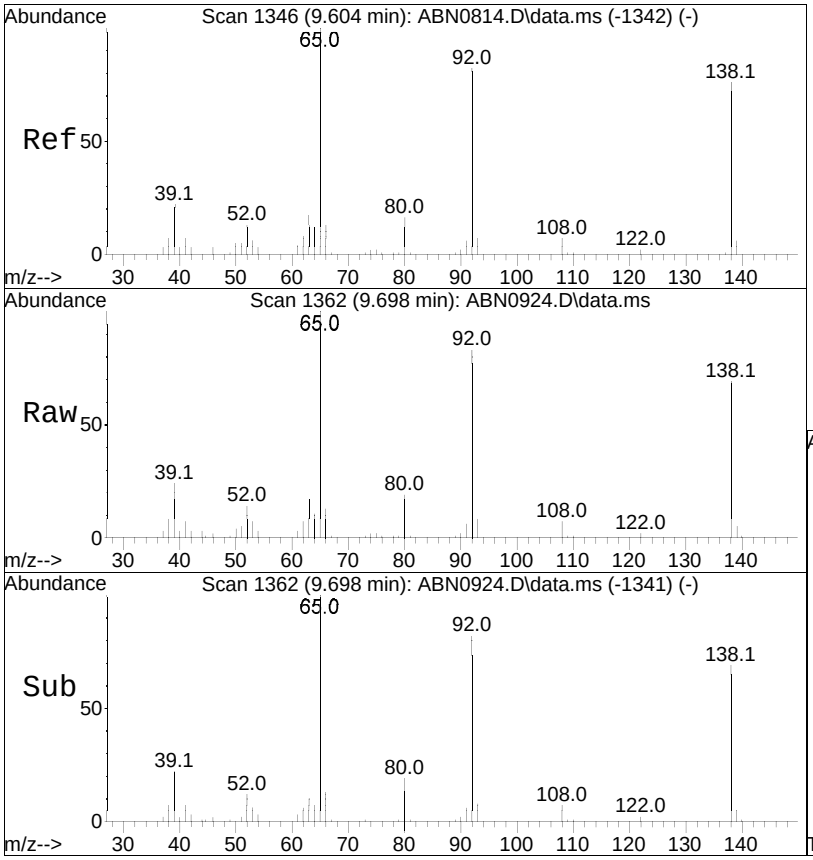


#54
1,2-Dinitrobenzene
Concen: 4.69 ug/ml
RT: 9.586 min Scan# 1343
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:168 Resp: 6378

Ion	Ratio	Lower	Upper
168	100		
75	117.2	30.9	46.3#

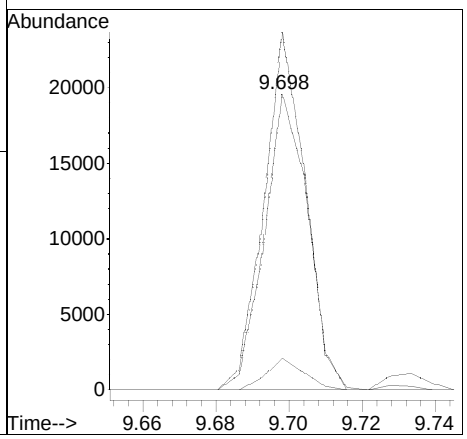


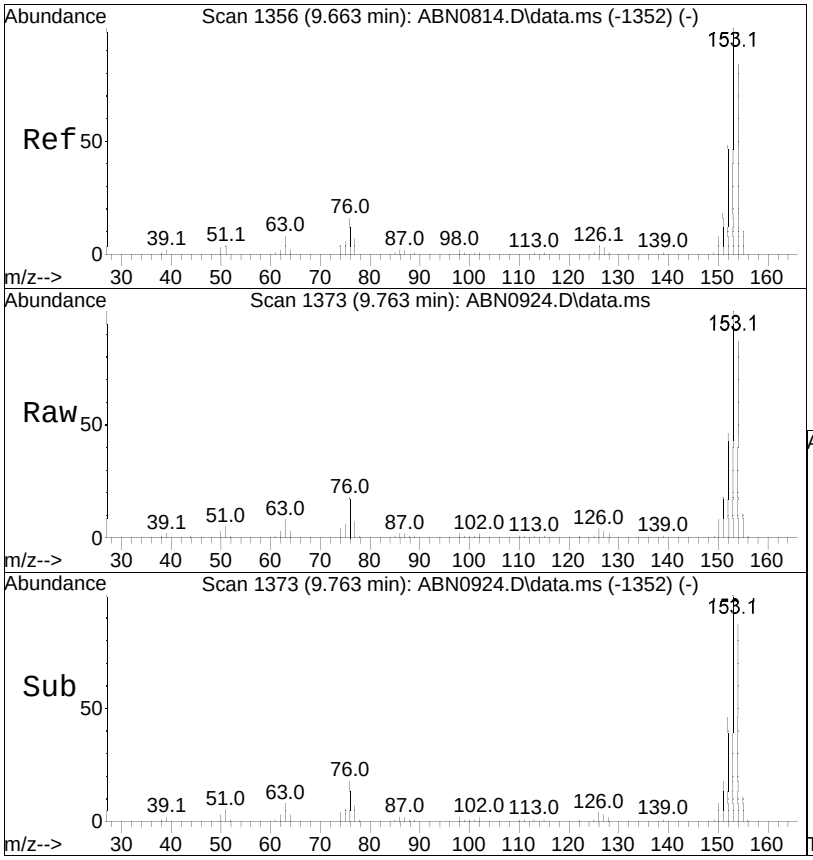


#64
3-Nitroaniline
Concen: 4.94 ug/ml
RT: 9.698 min Scan# 1362
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:138 Resp: 15985

Ion	Ratio	Lower	Upper
138	100		
92	115.4	93.4	140.2
108	9.3	9.5	14.3#

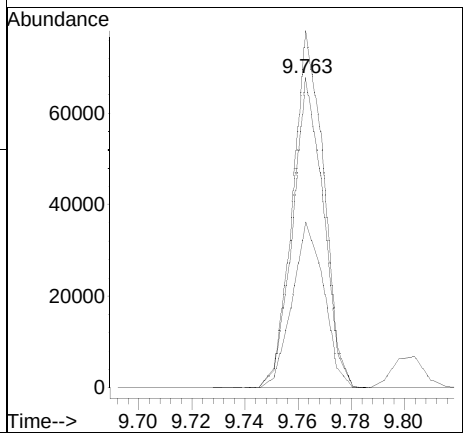


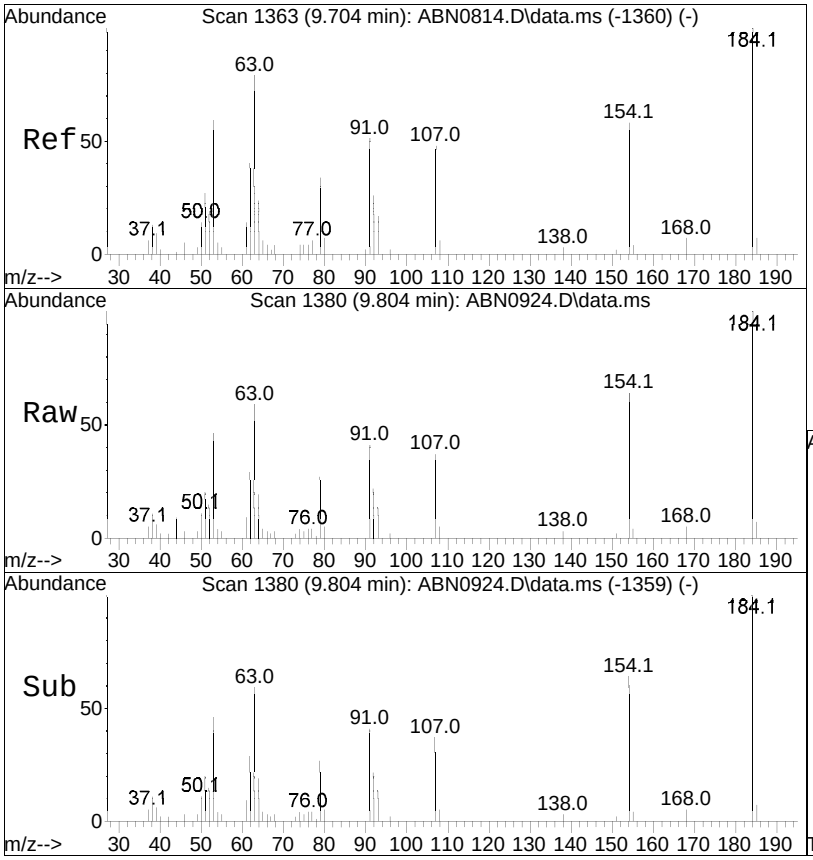


#65
Acenaphthene
Concen: 4.73 ug/ml
RT: 9.763 min Scan# 1373
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:154 Resp: 54344

Ion	Ratio	Lower	Upper
154	100		
153	116.0	85.3	127.9
152	55.3	41.4	62.0

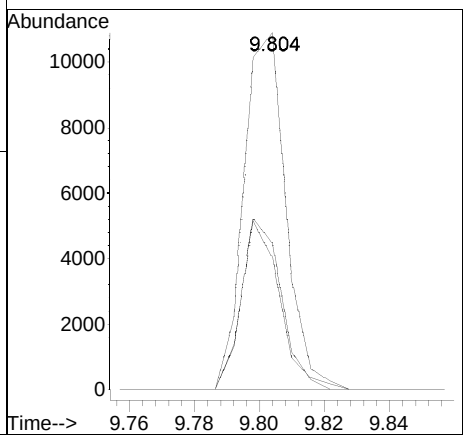


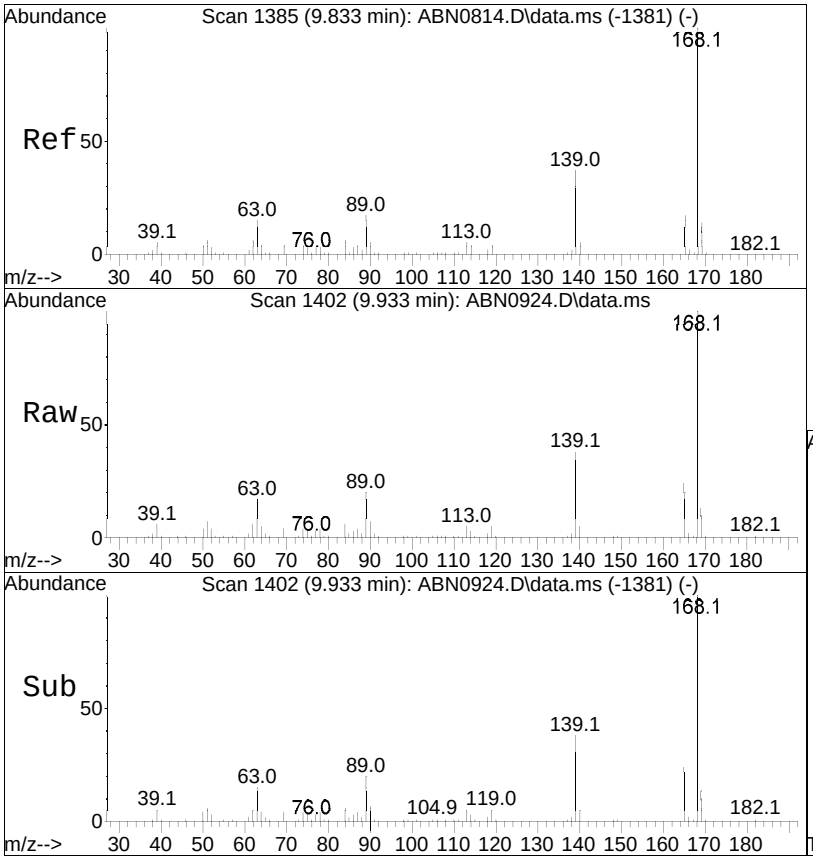


#66
2,4-Dinitrophenol
Concen: 5.18 ug/ml
RT: 9.804 min Scan# 1380
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:184 Resp: 9707

Ion	Ratio	Lower	Upper
184	100		
107	43.9	37.7	56.5
91	45.5	46.3	69.5#

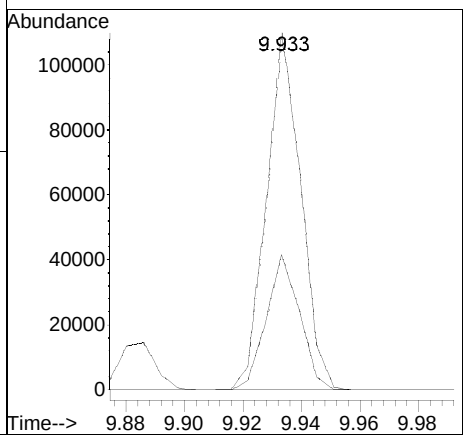


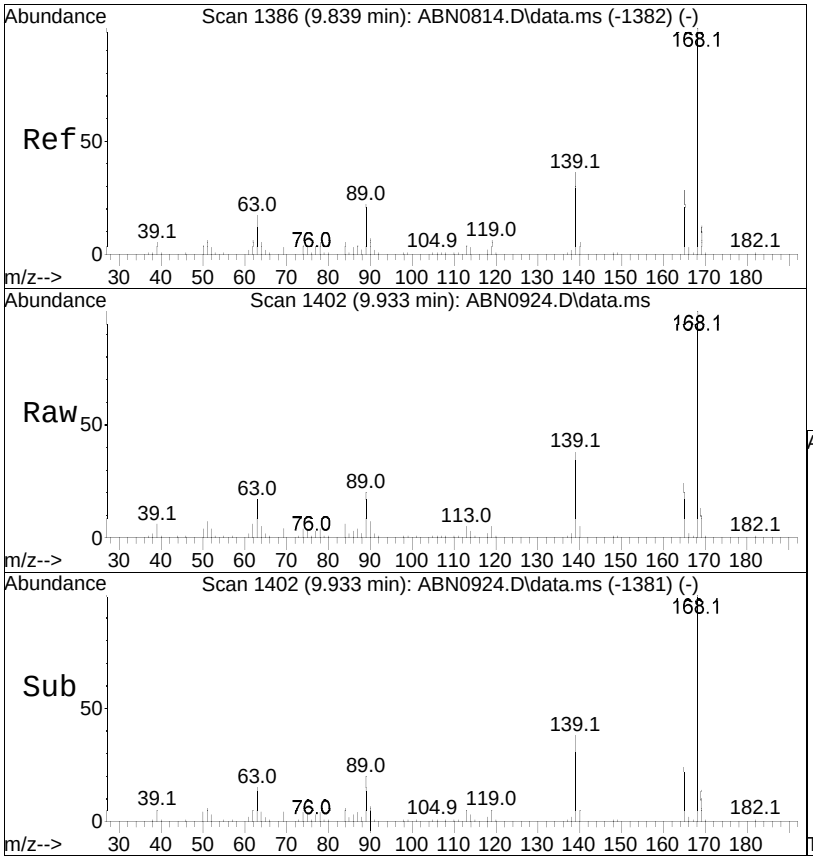


#67
Dibenzofuran
Concen: 4.66 ug/ml
RT: 9.933 min Scan# 1402
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:168 Resp: 88475

Ion	Ratio	Lower	Upper
168	100		
139	37.1	31.4	47.2

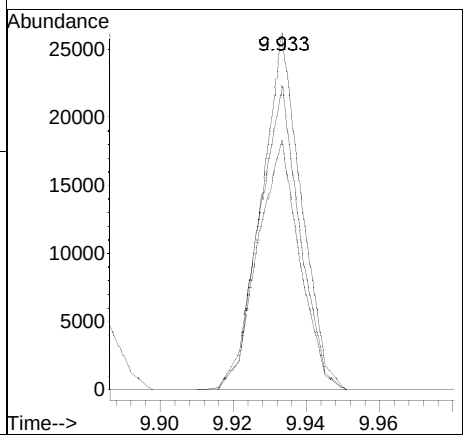


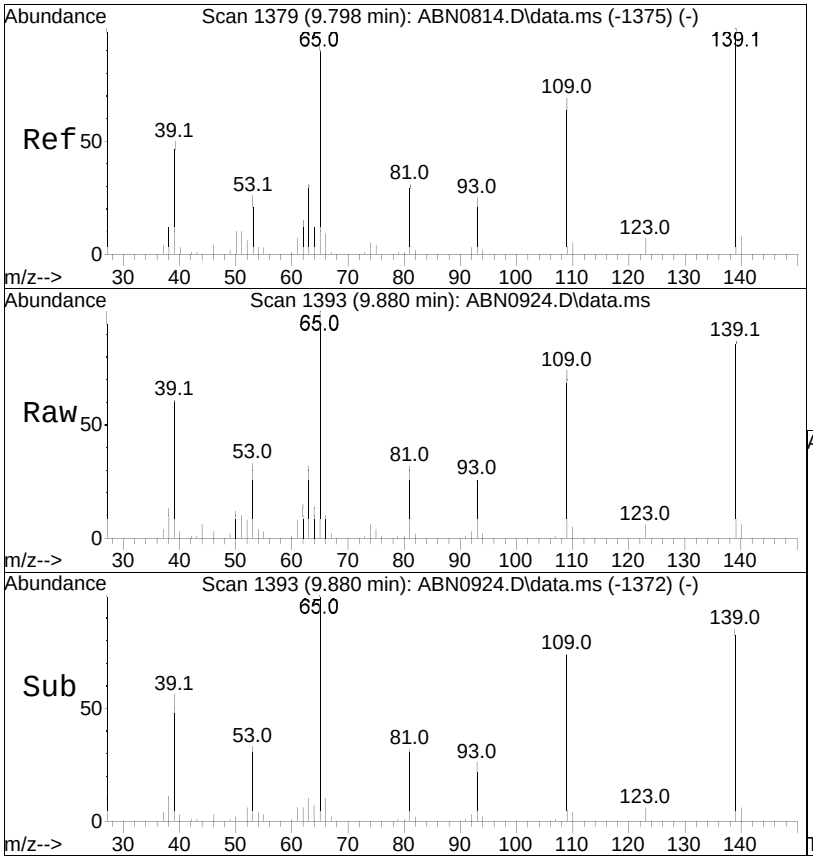


#68
2,4-Dinitrotoluene
Concen: 4.76 ug/ml
RT: 9.933 min Scan# 1402
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:165 Resp: 19651

Ion	Ratio	Lower	Upper
165	100		
89	87.2	72.0	108.0
63	74.0	52.7	79.1

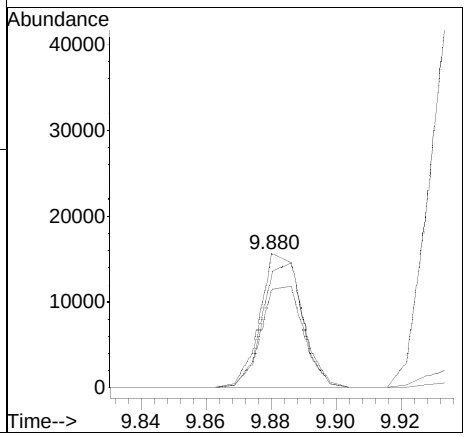


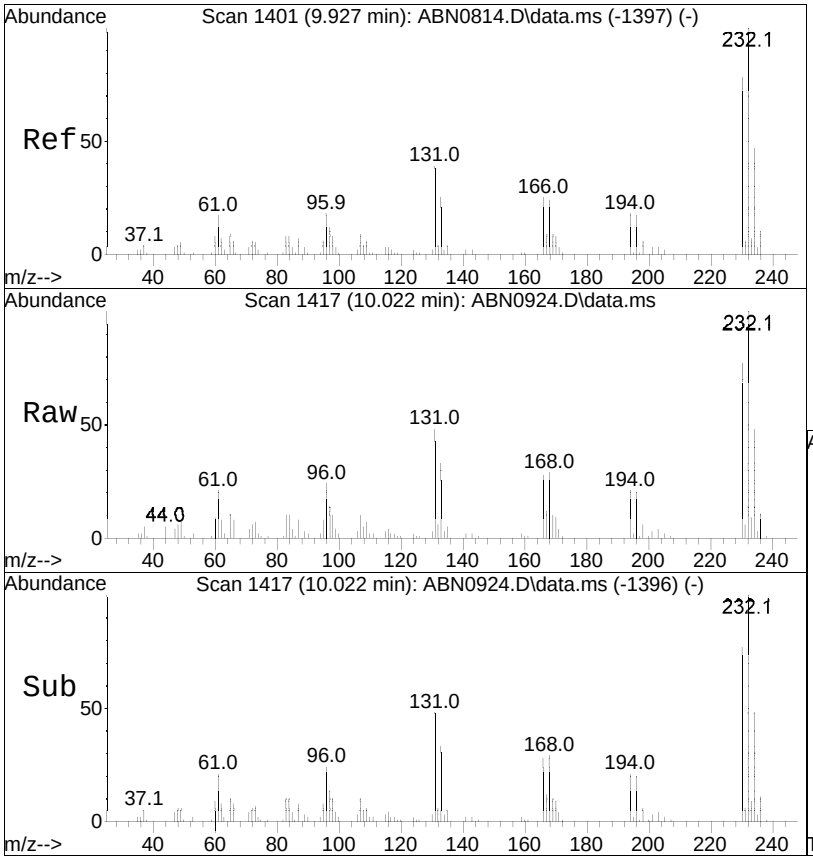


#69
4-Nitrophenol
Concen: 5.39 ug/ml
RT: 9.880 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 65 Resp: 13793

Ion	Ratio	Lower	Upper
65	100		
109	77.9	47.4	71.2#
139	93.0	76.6	115.0

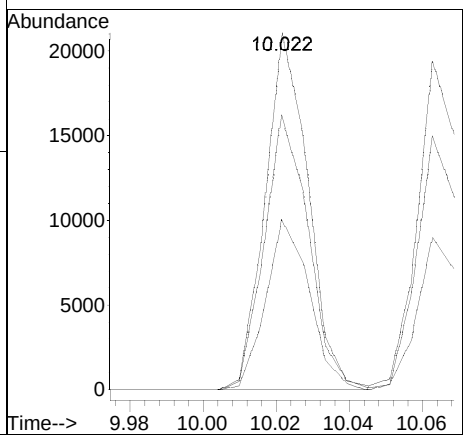


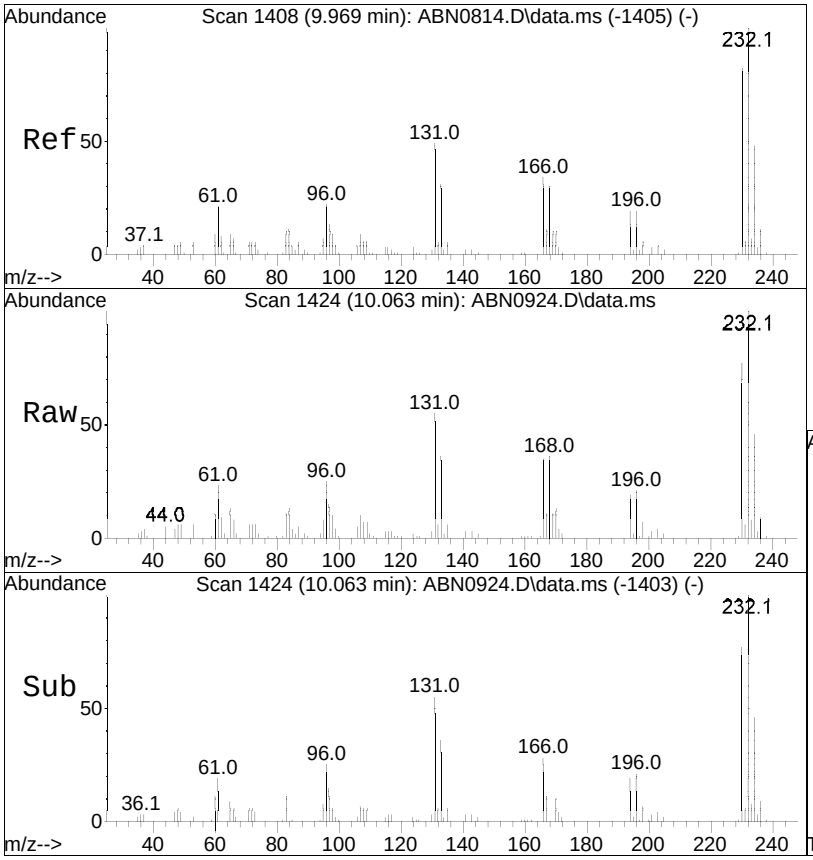


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.01 ug/ml
RT: 10.022 min Scan# 1417
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:232 Resp: 17266

Ion	Ratio	Lower	Upper
232	100		
230	79.2	64.2	96.4
234	48.4	38.1	57.1

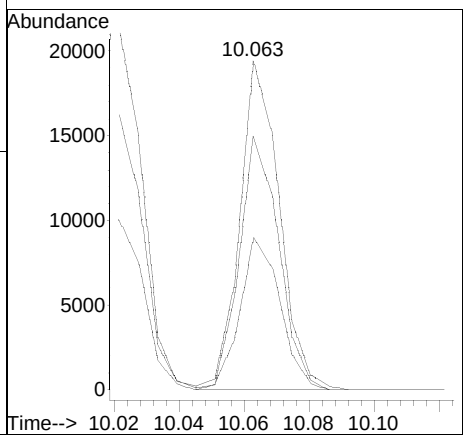


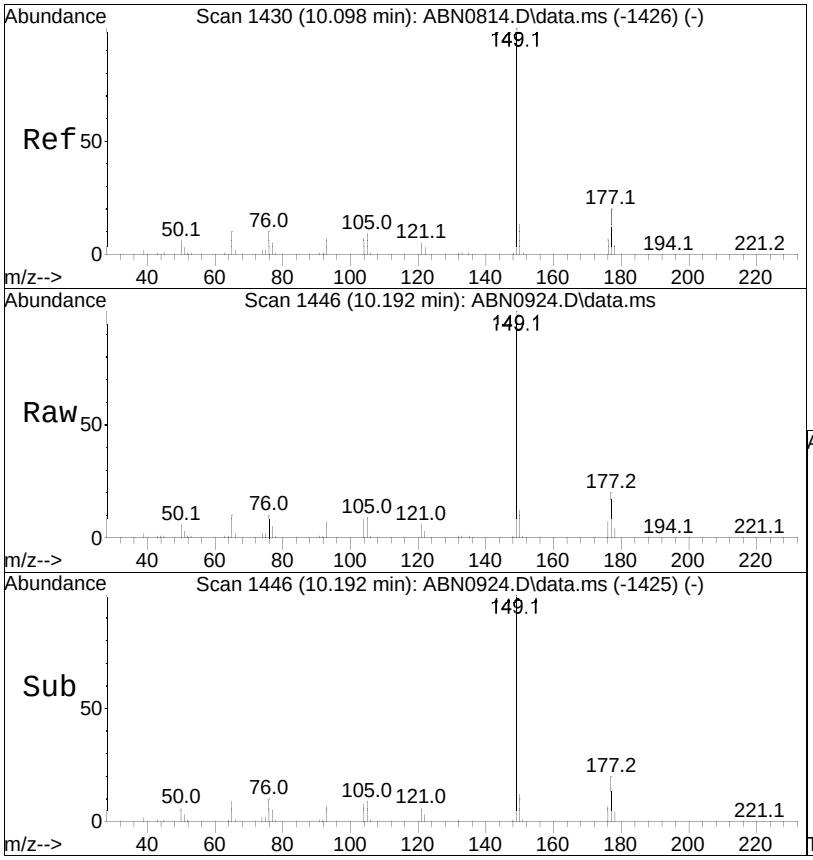


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.00 ug/ml
RT: 10.063 min Scan# 1424
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:232 Resp: 16434

Ion	Ratio	Lower	Upper
232	100		
230	77.1	61.8	92.8
234	47.2	36.2	54.2

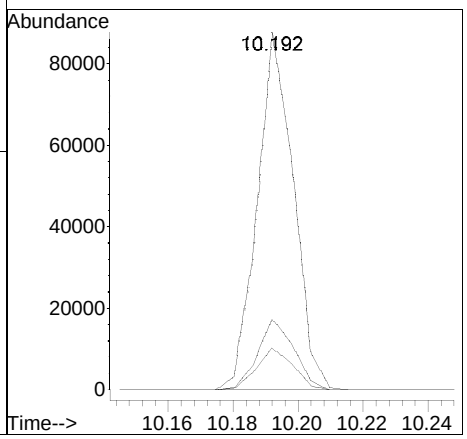


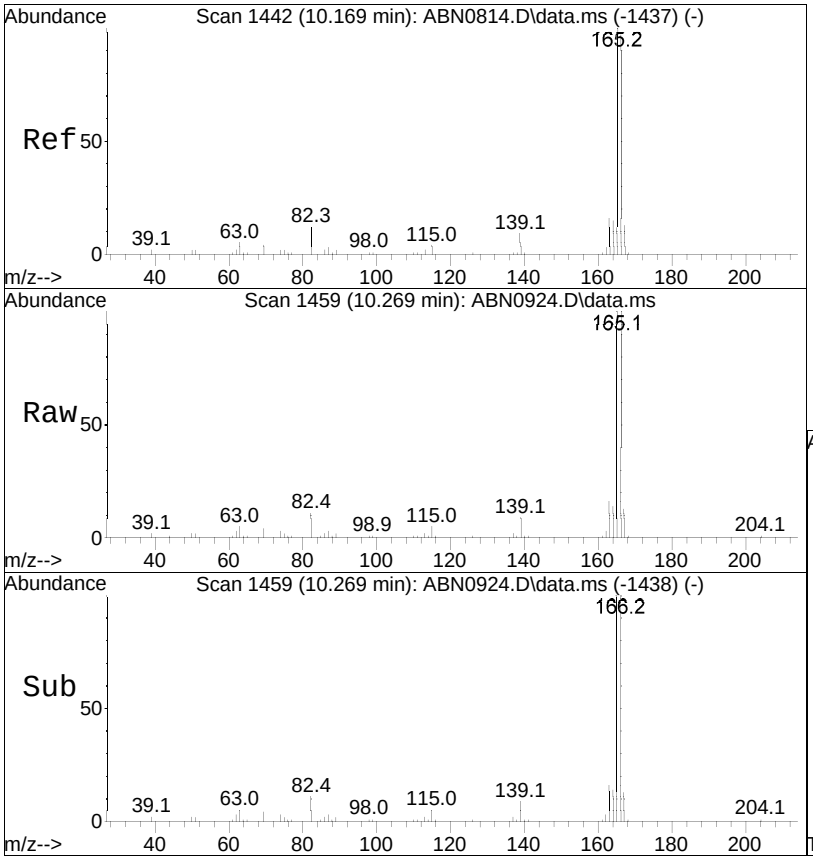


#72
Diethyl phthalate
Concen: 4.99 ug/ml
RT: 10.192 min Scan# 1446
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:149 Resp: 66953

Ion	Ratio	Lower	Upper
149	100		
177	20.0	16.1	24.1
150	12.0	9.4	14.2

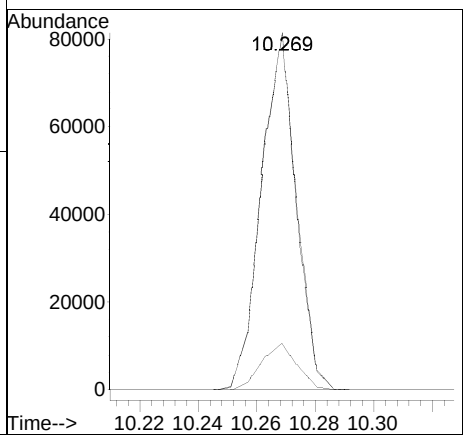


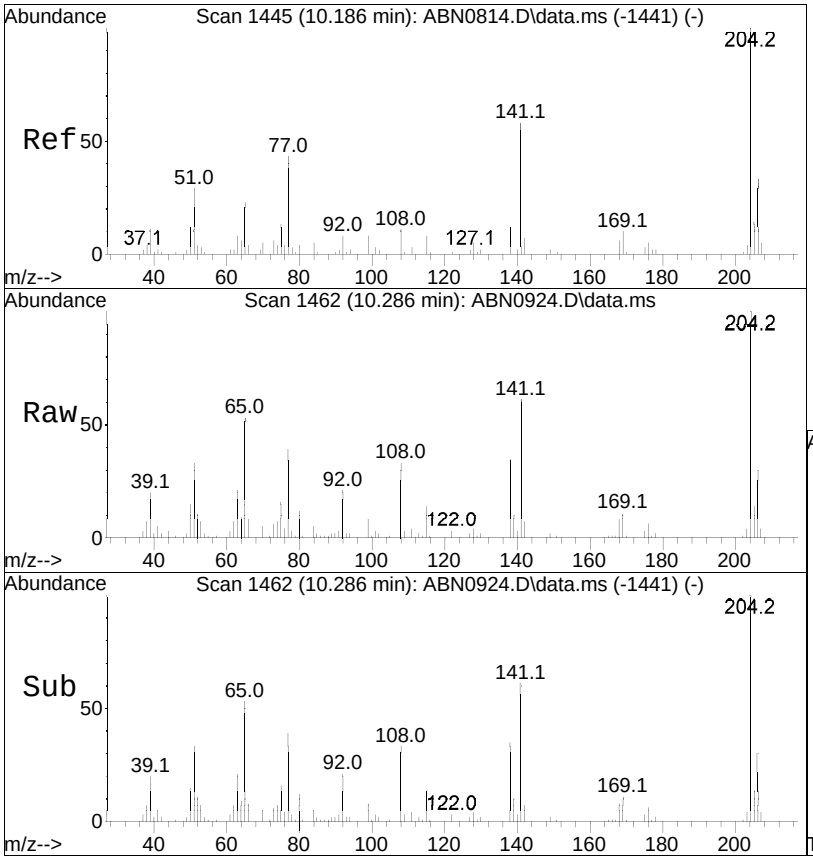


#73
Fluorene
Concen: 4.76 ug/ml
RT: 10.269 min Scan# 1459
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:166 Resp: 67577

Ion	Ratio	Lower	Upper
166	100		
165	98.4	76.2	114.2
167	13.4	10.6	15.8

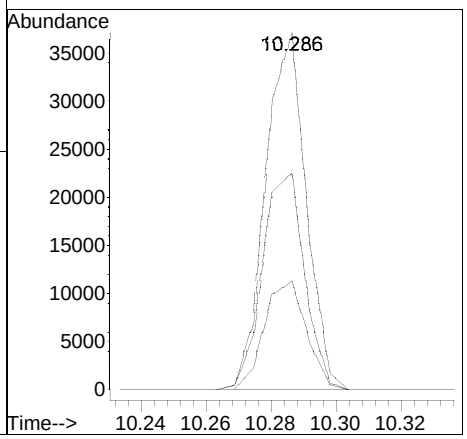


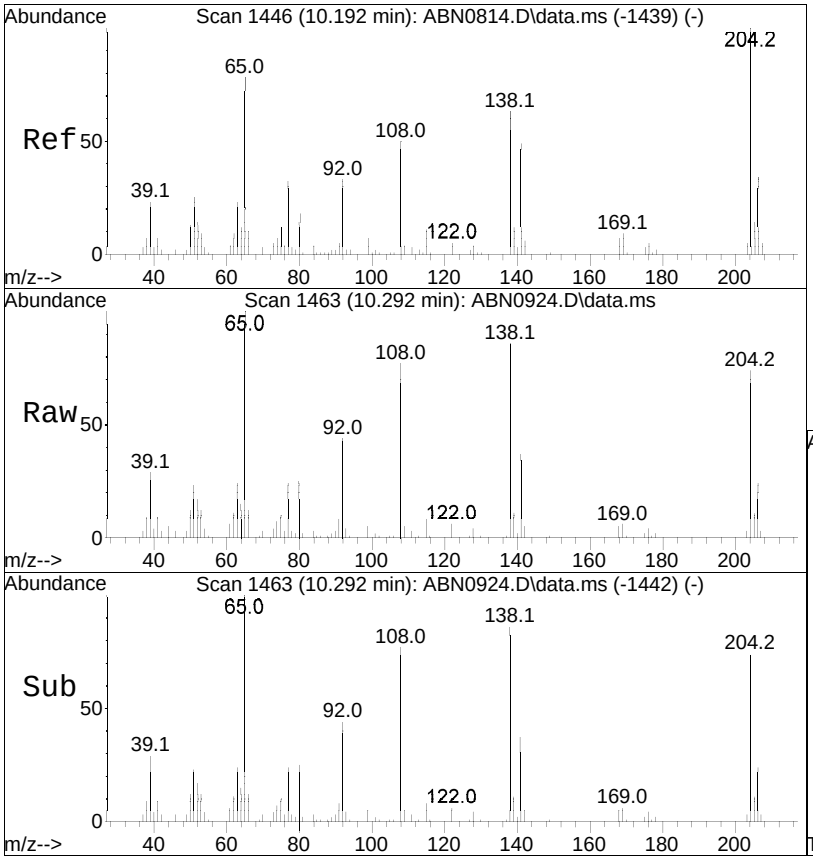


#74
4-Chlorophenyl phenyl ether
Concen: 4.44 ug/ml
RT: 10.286 min Scan# 1462
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:204 Resp: 32014

Ion	Ratio	Lower	Upper
204	100		
206	31.7	25.8	38.6
141	63.0	53.6	80.4

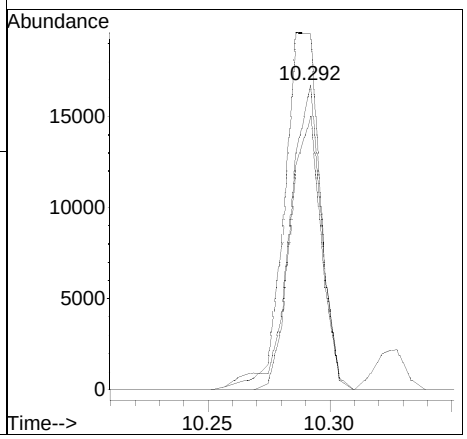


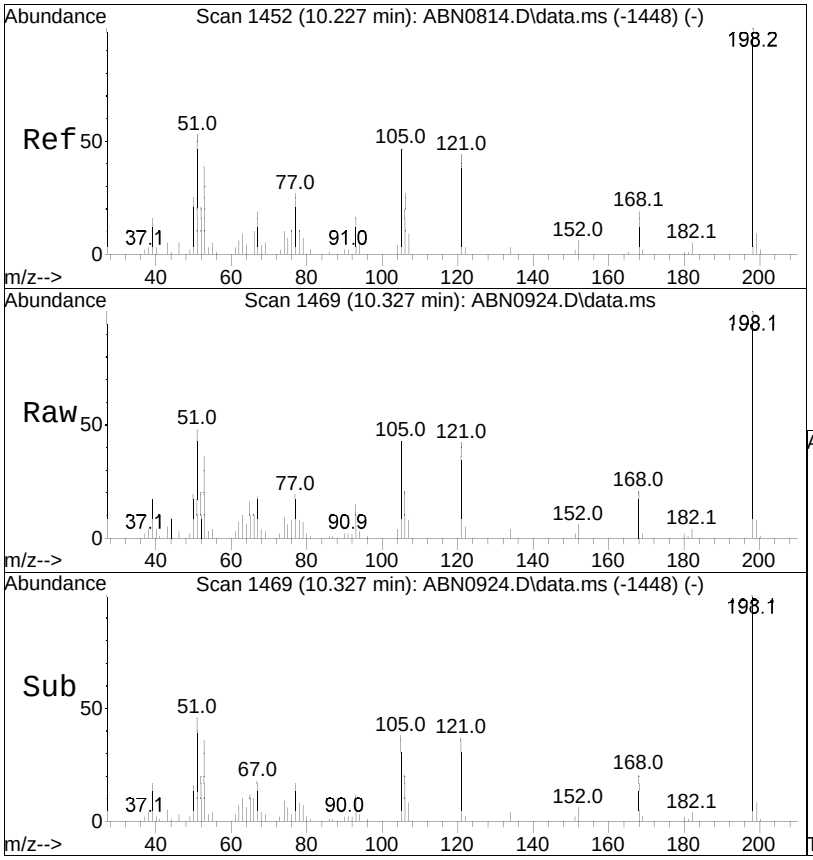


#75
4-Nitroaniline
Concen: 4.74 ug/ml
RT: 10.292 min Scan# 1463
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:138 Resp: 15322

Ion	Ratio	Lower	Upper
138	100		
108	85.9	52.1	78.1#
65	129.6	115.0	172.6

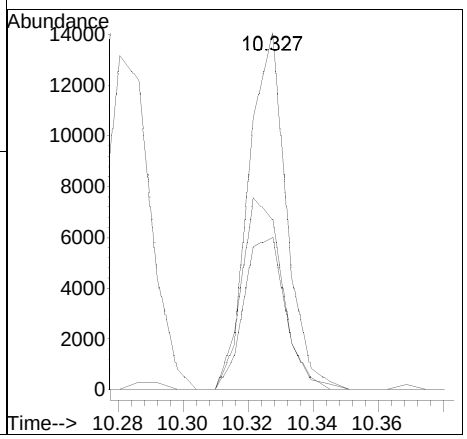


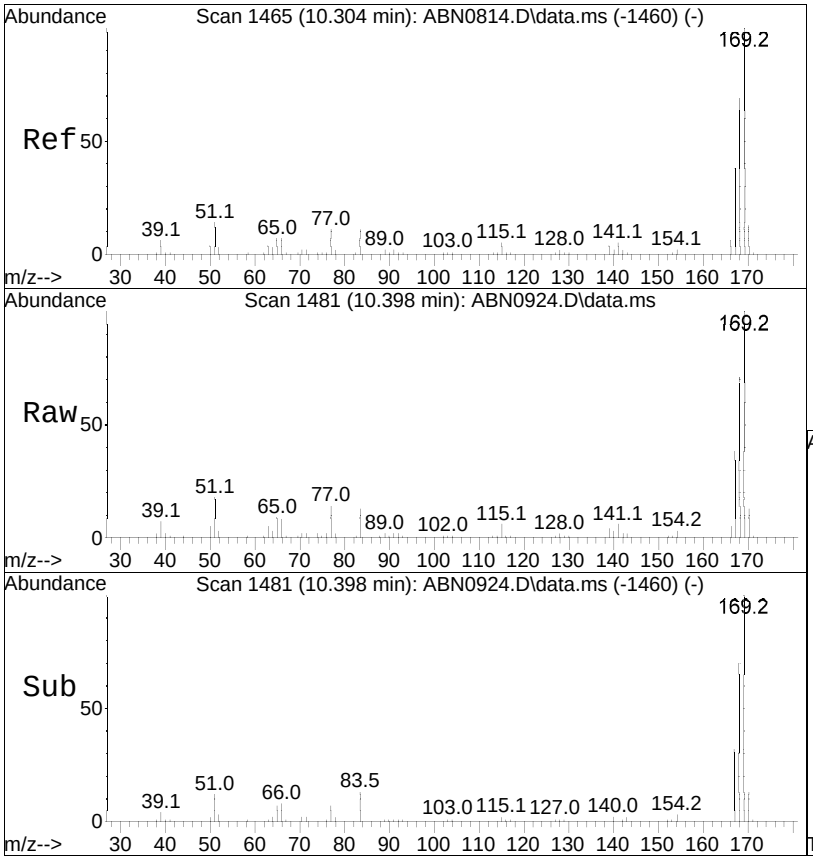


#76
4,6-Dinitro-o-cresol
Concen: 4.54 ug/ml
RT: 10.327 min Scan# 1469
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:198 Resp: 11365

Ion	Ratio	Lower	Upper
198	100		
51	58.5	76.0	114.0#
105	47.5	45.6	68.4

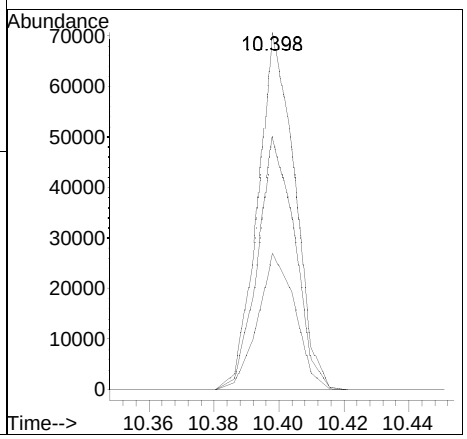


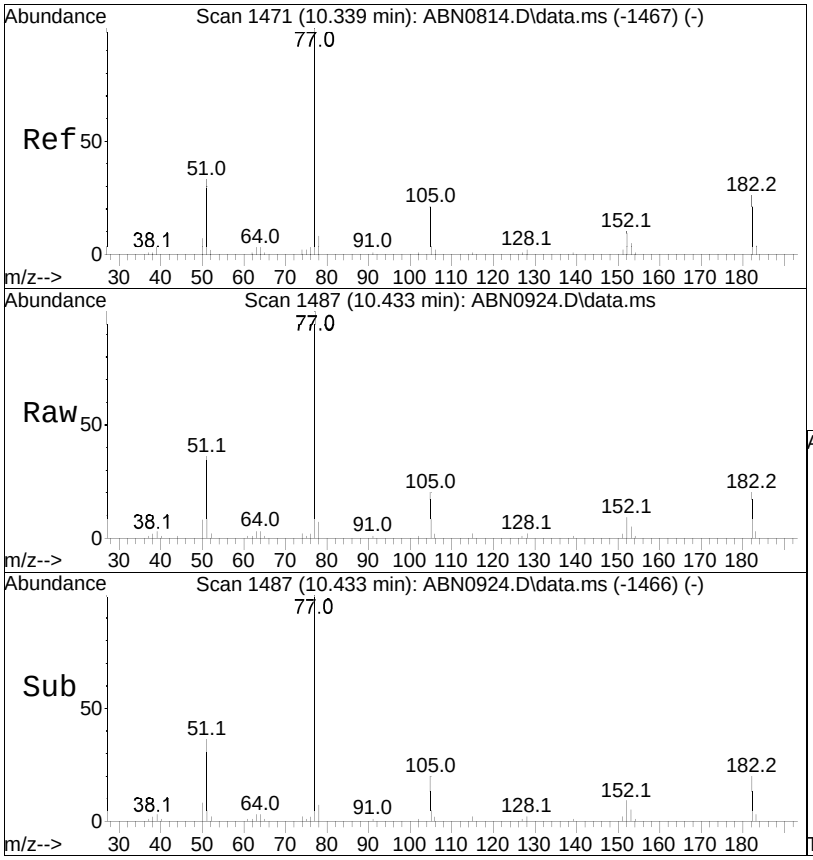


#77
NDPA/DPA
Concen: 4.72 ug/ml
RT: 10.398 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:169 Resp: 55599

Ion	Ratio	Lower	Upper
169	100		
168	71.3	54.0	81.0
167	38.9	28.6	42.8

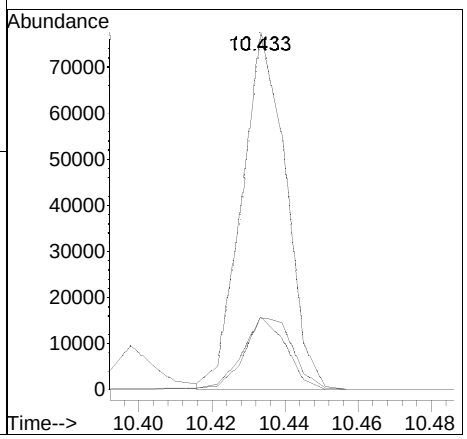


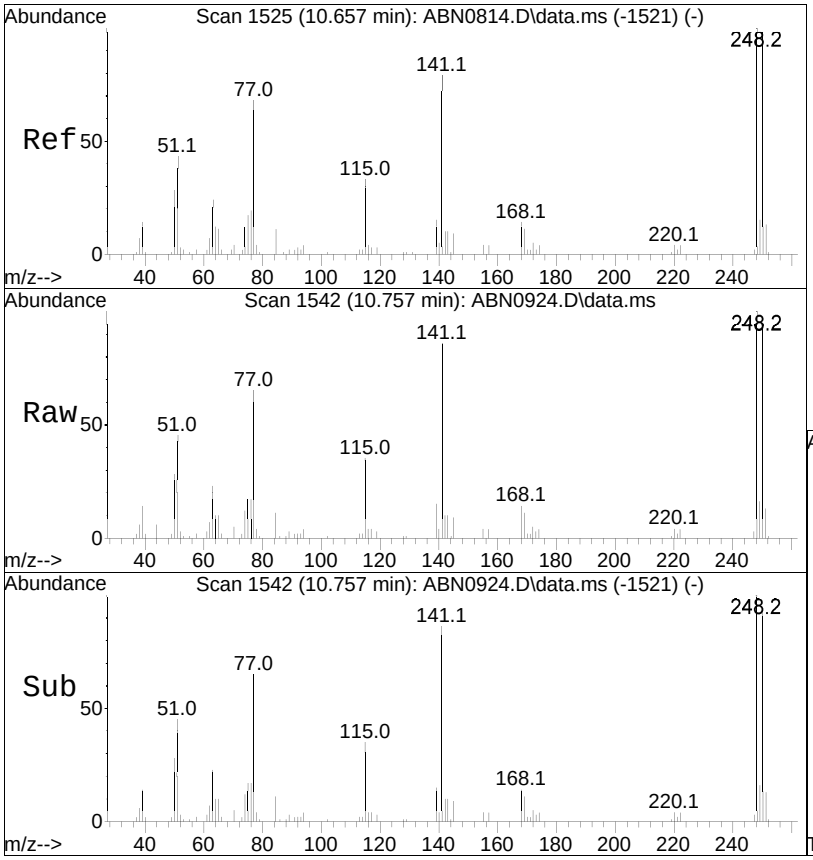


#78
Azobenzene
Concen: 5.21 ug/ml
RT: 10.433 min Scan# 1487
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion: 77 Resp: 64624

Ion	Ratio	Lower	Upper
77	100		
182	22.1	17.4	26.2
105	20.6	15.4	23.2

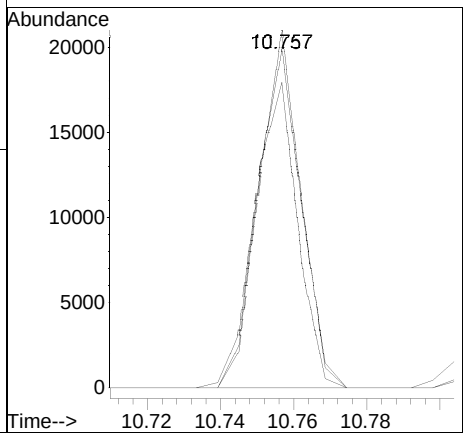


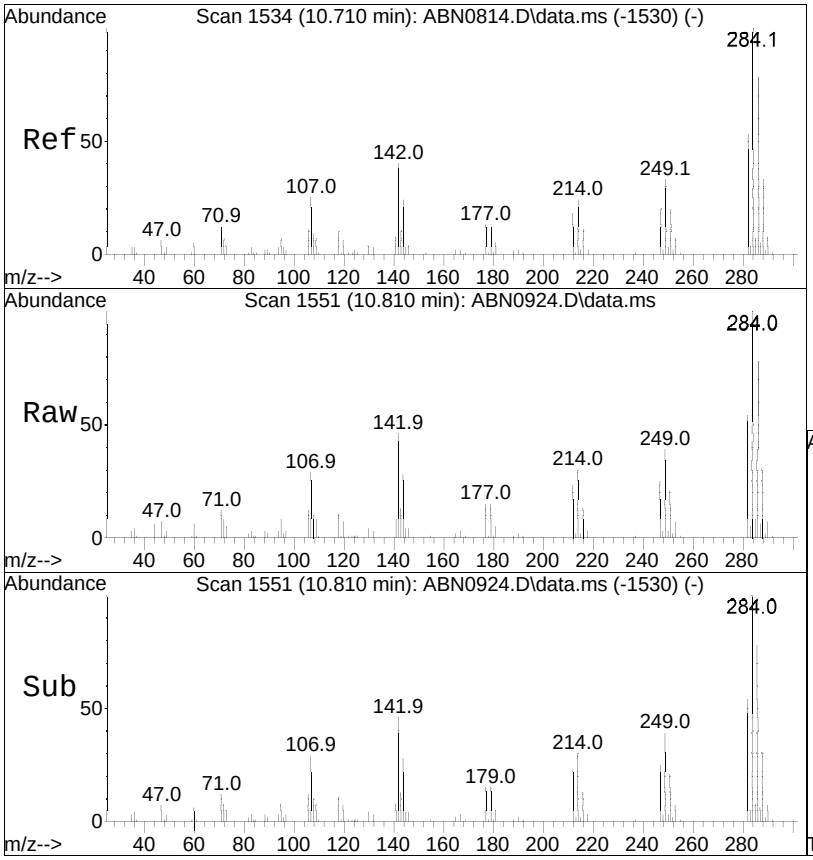


#80
4-Bromophenyl phenyl ether
Concen: 4.24 ug/ml
RT: 10.757 min Scan# 1542
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:248 Resp: 16499

Ion	Ratio	Lower	Upper
248	100		
141	88.8	76.6	114.8
250	99.4	77.3	115.9

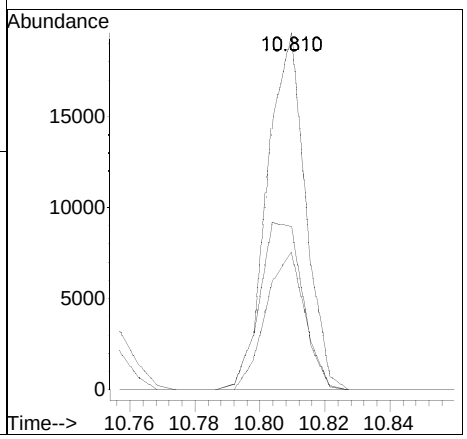


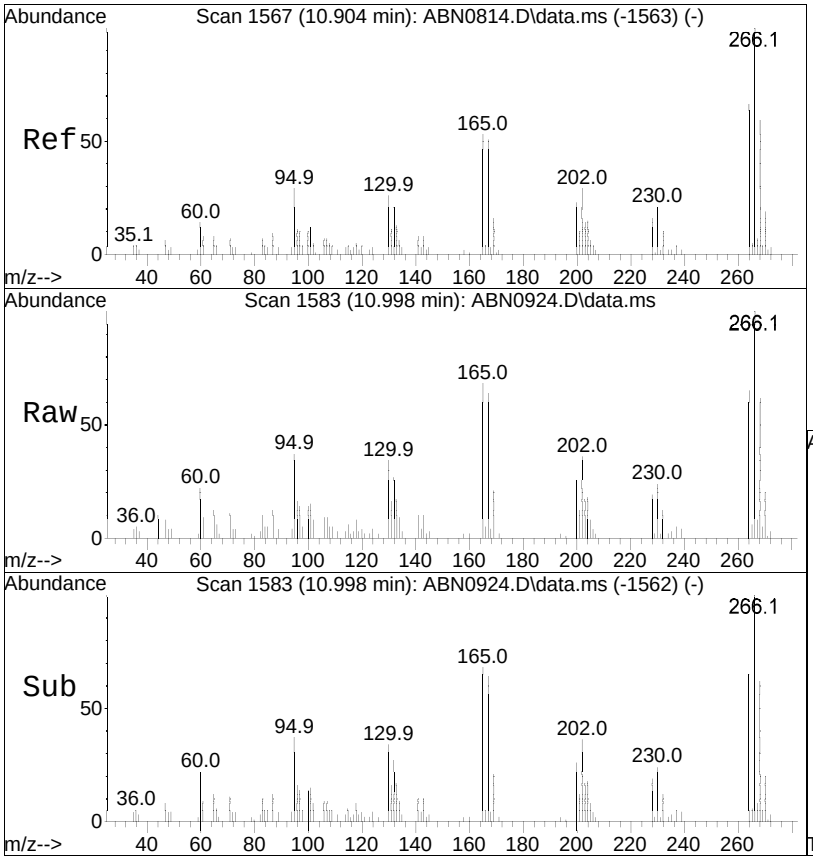


#81
Hexachlorobenzene
Concen: 3.72 ug/ml
RT: 10.810 min Scan# 1551
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:284 Resp: 15983

Ion	Ratio	Lower	Upper
284	100		
142	53.2	41.9	62.9
249	39.7	24.1	36.1#

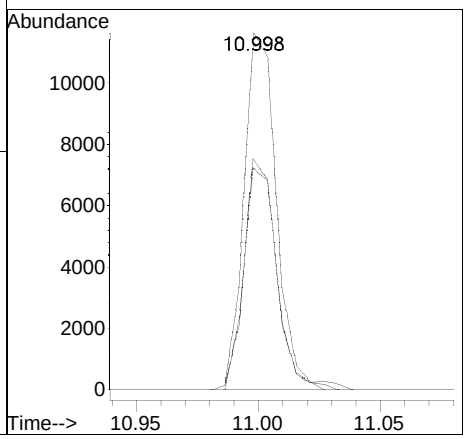


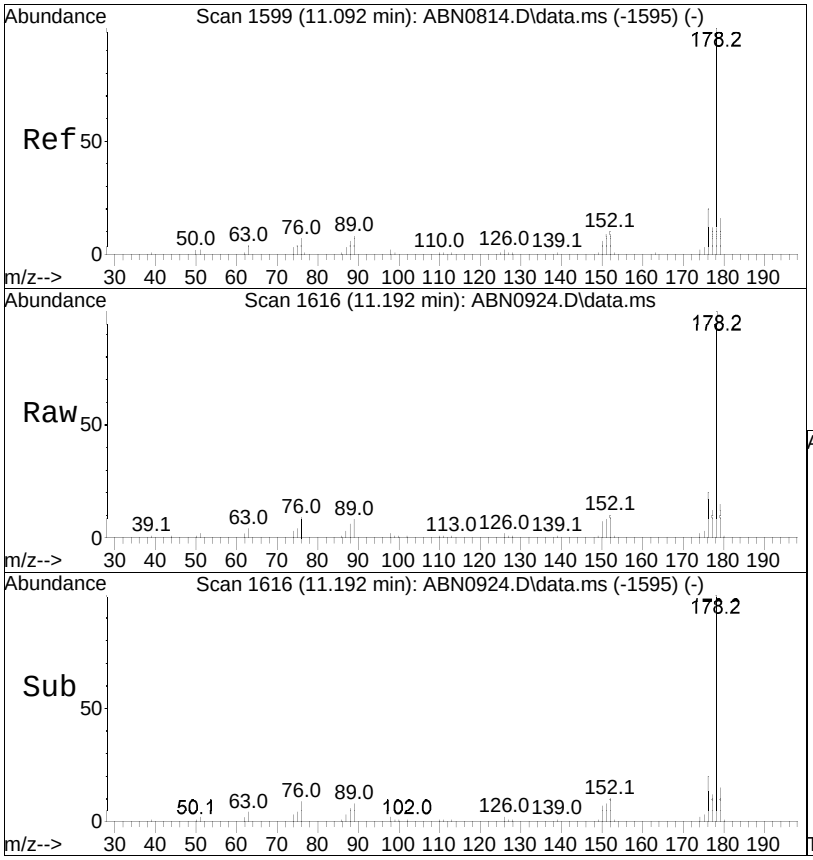


#82
Pentachlorophenol
Concen: 3.83 ug/ml
RT: 10.998 min Scan# 1583
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:266 Resp: 10839

Ion	Ratio	Lower	Upper
266	100		
264	63.5	49.7	74.5
268	63.3	50.5	75.7

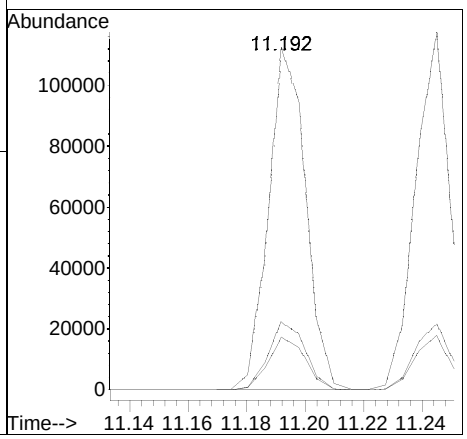


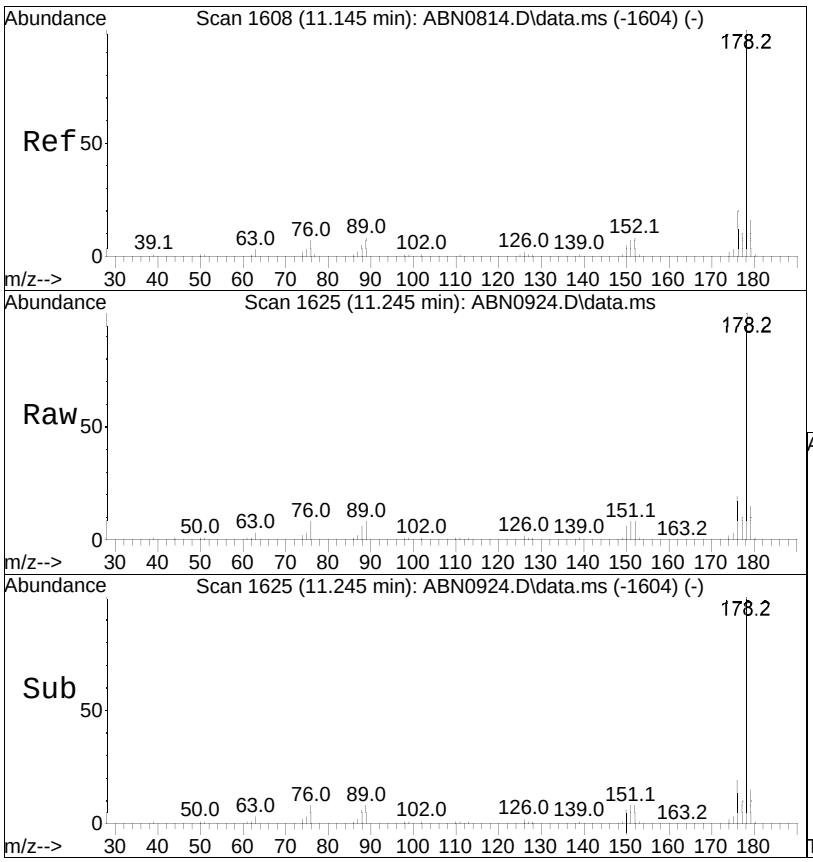


#89
Phenanthrene
Concen: 4.80 ug/ml
RT: 11.192 min Scan# 1616
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:178 Resp: 99061

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	19.7	15.4	23.2

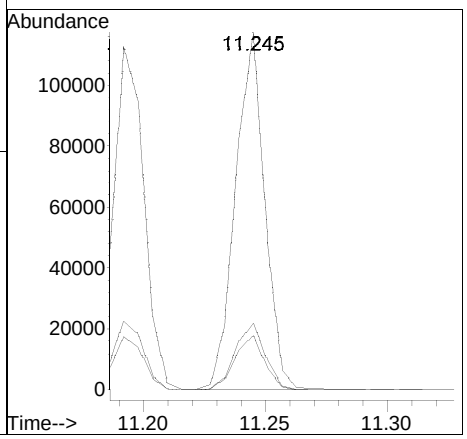


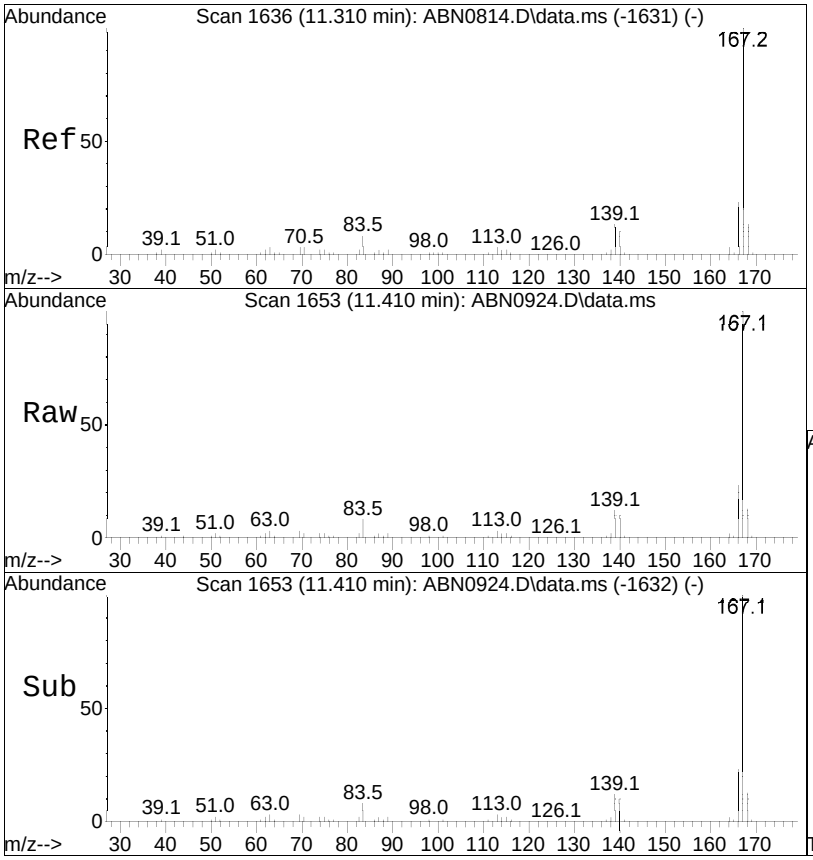


#90
Anthracene
Concen: 5.02 ug/ml
RT: 11.245 min Scan# 1625
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:178 Resp: 98108

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.0	18.0
176	19.0	14.6	22.0

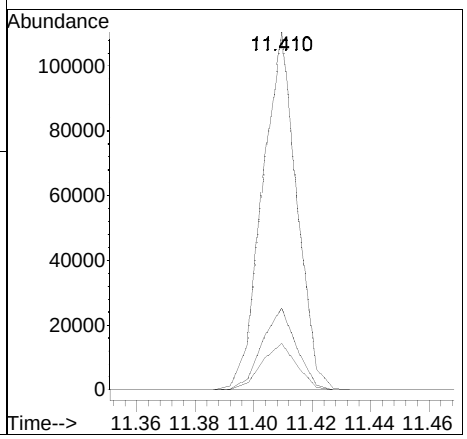


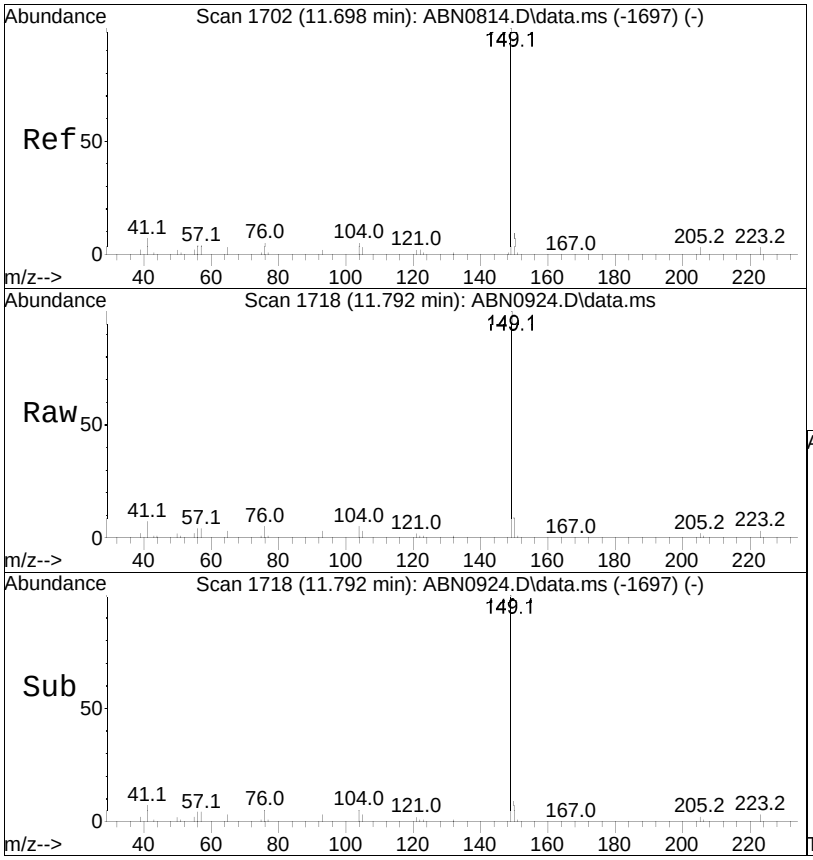


#91
Carbazole
Concen: 5.01 ug/ml
RT: 11.410 min Scan# 1653
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:167 Resp: 89377

Ion	Ratio	Lower	Upper
167	100		
168	13.4	10.6	15.8
166	22.9	17.4	26.0

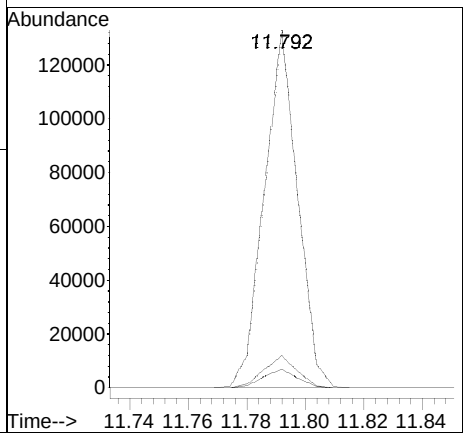


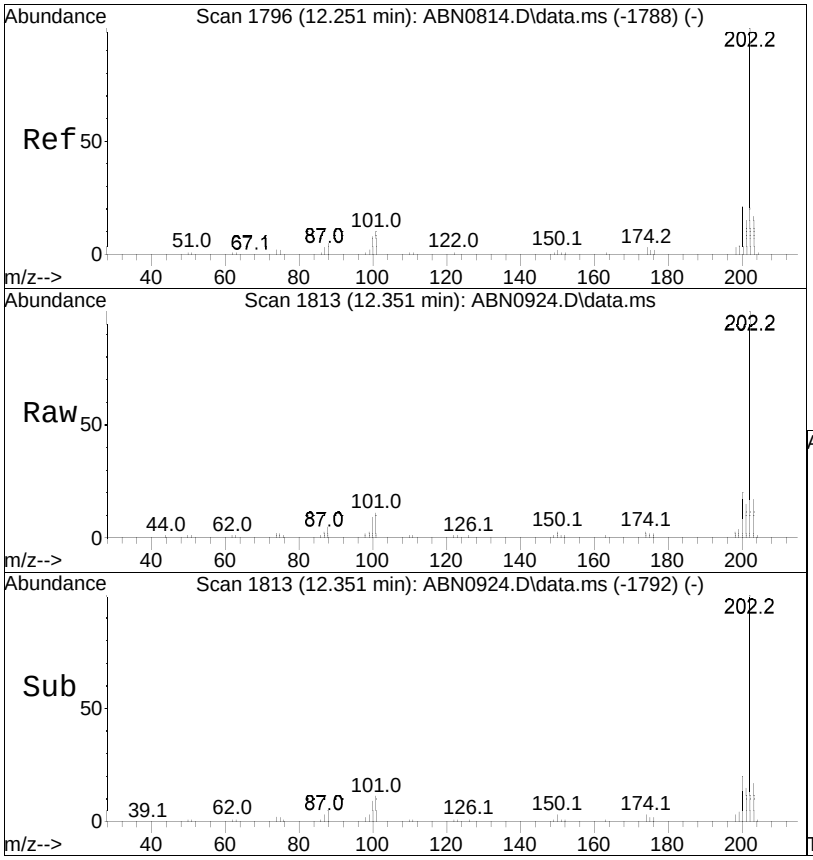


#92
Di-n-butylphthalate
Concen: 5.27 ug/ml
RT: 11.792 min Scan# 1718
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:149 Resp: 103497

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.4	4.5	6.7

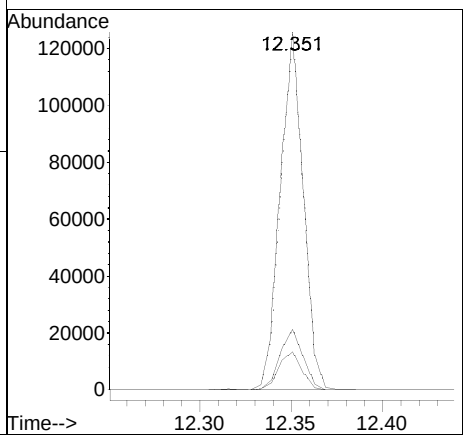


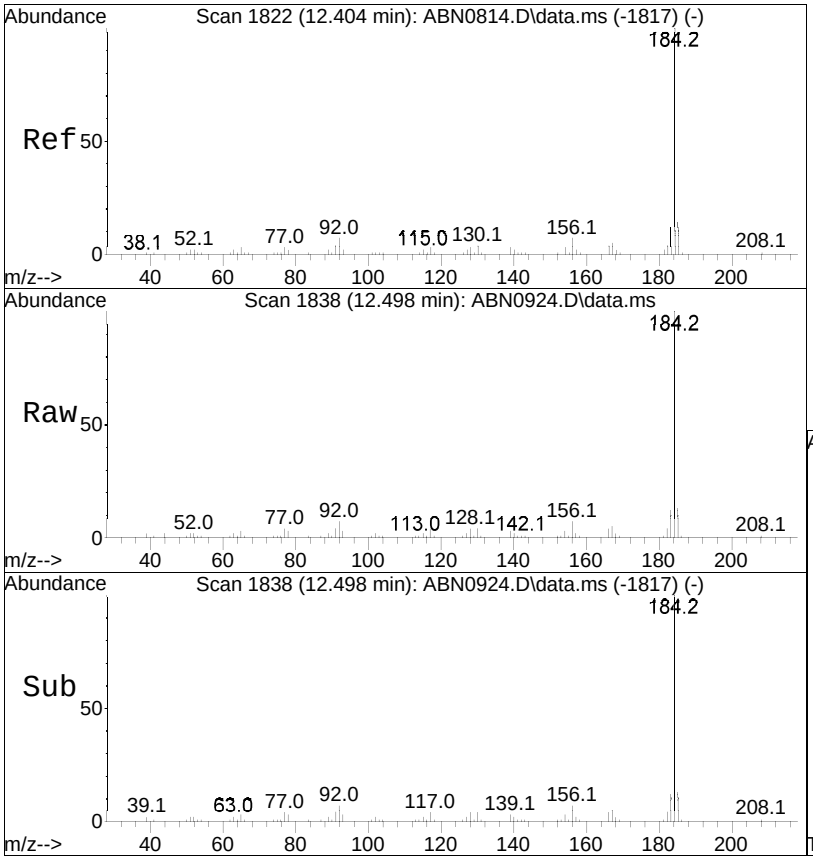


#93
Fluoranthene
Concen: 4.79 ug/ml
RT: 12.351 min Scan# 1813
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:202 Resp: 108324

Ion	Ratio	Lower	Upper
202	100		
101	10.9	13.5	20.3#
203	17.3	13.6	20.4

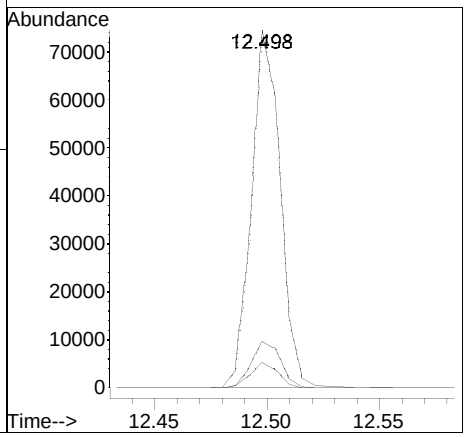


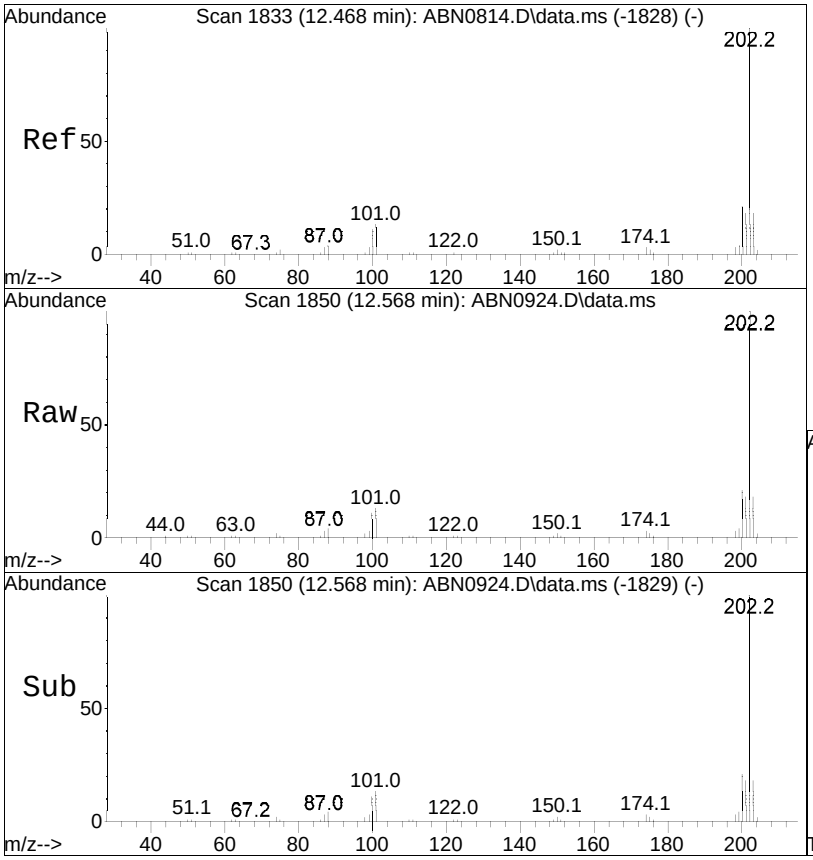


#94
Benzidine
Concen: 4.94 ug/ml
RT: 12.498 min Scan# 1838
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:184 Resp: 65514

Ion	Ratio	Lower	Upper
184	100		
92	7.0	9.1	13.7#
185	13.4	11.1	16.7

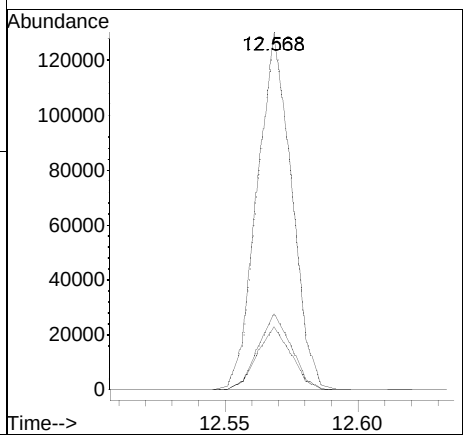


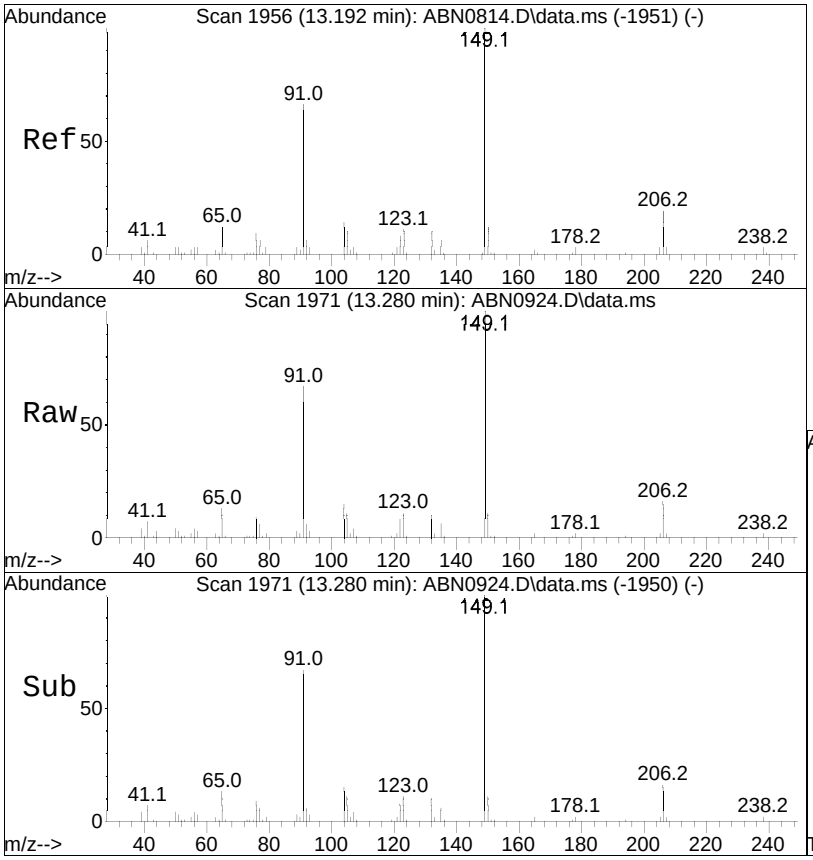


#95
Pyrene
Concen: 4.72 ug/ml
RT: 12.568 min Scan# 1850
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:202 Resp: 116164

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.7	25.1
203	17.6	14.2	21.4

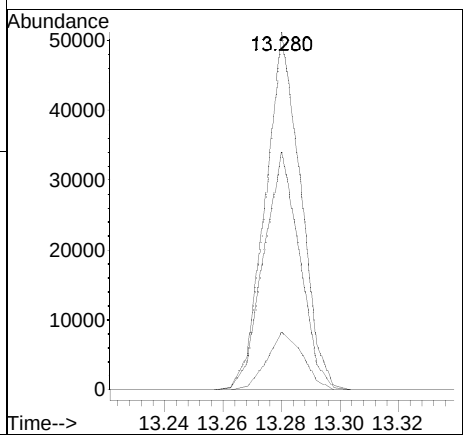


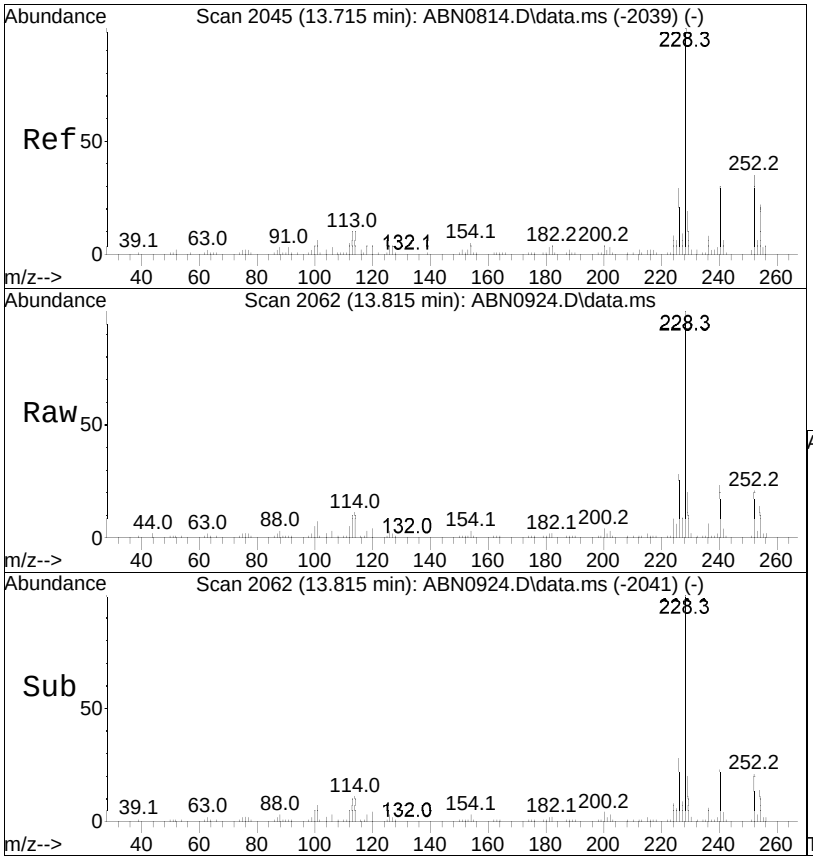


#97
Butyl benzyl phthalate
Concen: 4.24 ug/ml
RT: 13.280 min Scan# 1971
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:149 Resp: 42479

Ion	Ratio	Lower	Upper
149	100		
91	68.2	63.3	94.9
206	16.3	13.9	20.9

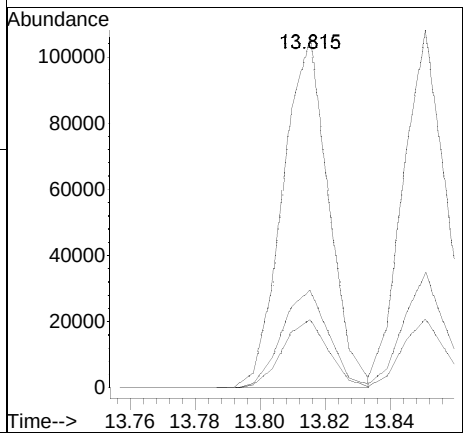


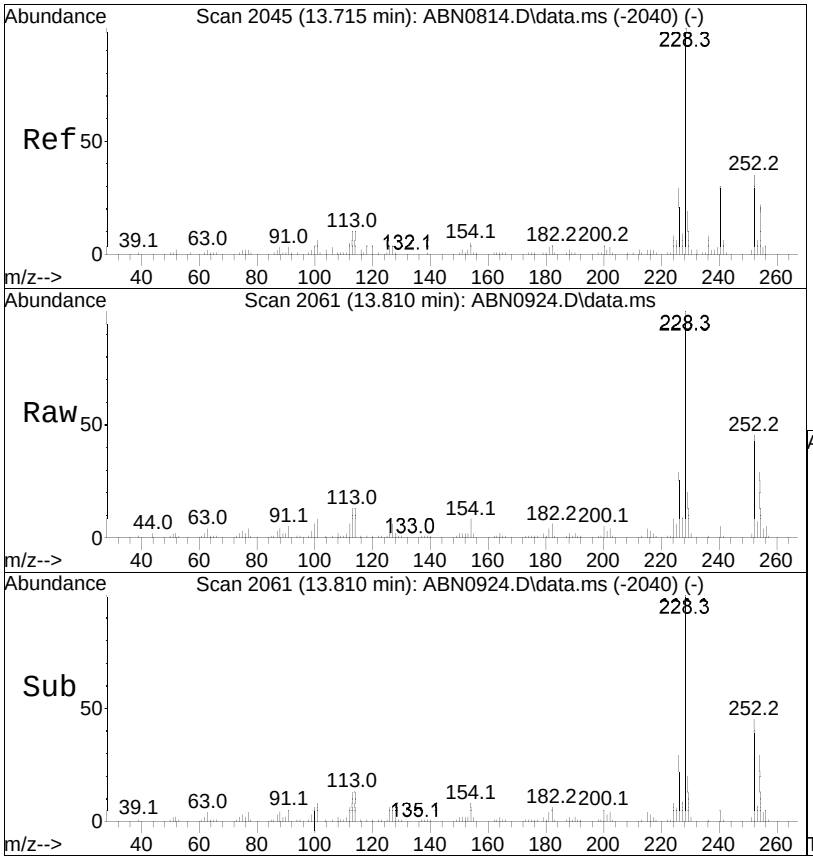


#105
Benzo(a)anthracene
Concen: 4.72 ug/ml
RT: 13.815 min Scan# 2062
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:228 Resp: 103904

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.2	33.4
229	19.6	15.6	23.4

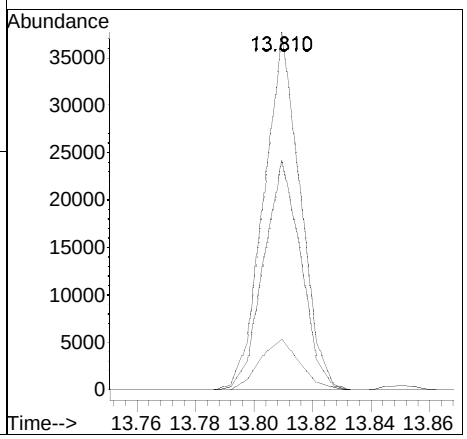


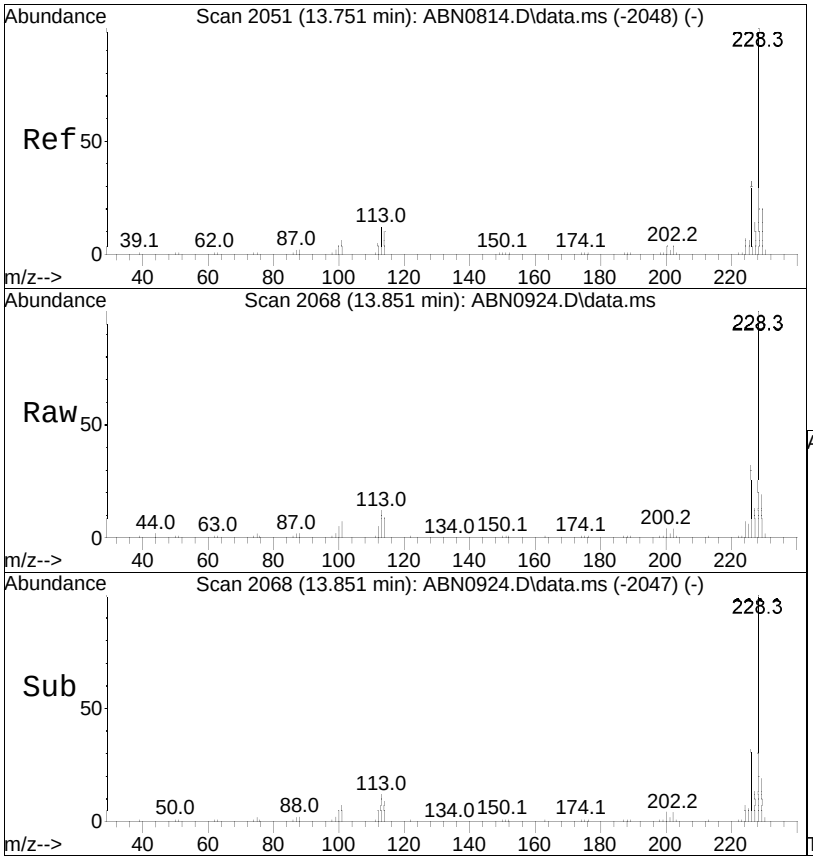


#106
3,3'-Dichlorobenzidine
Concen: 4.11 ug/ml
RT: 13.810 min Scan# 2061
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:252 Resp: 32298

Ion	Ratio	Lower	Upper
252	100		
126	15.6	14.5	21.7
254	65.8	51.2	76.8

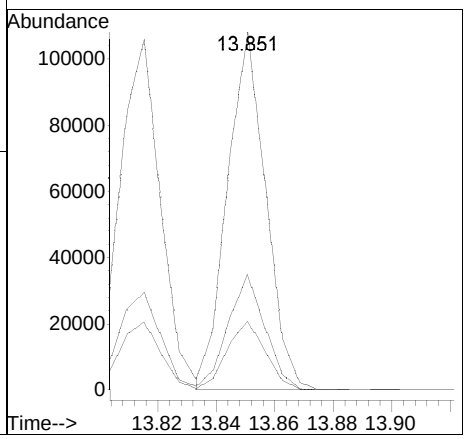


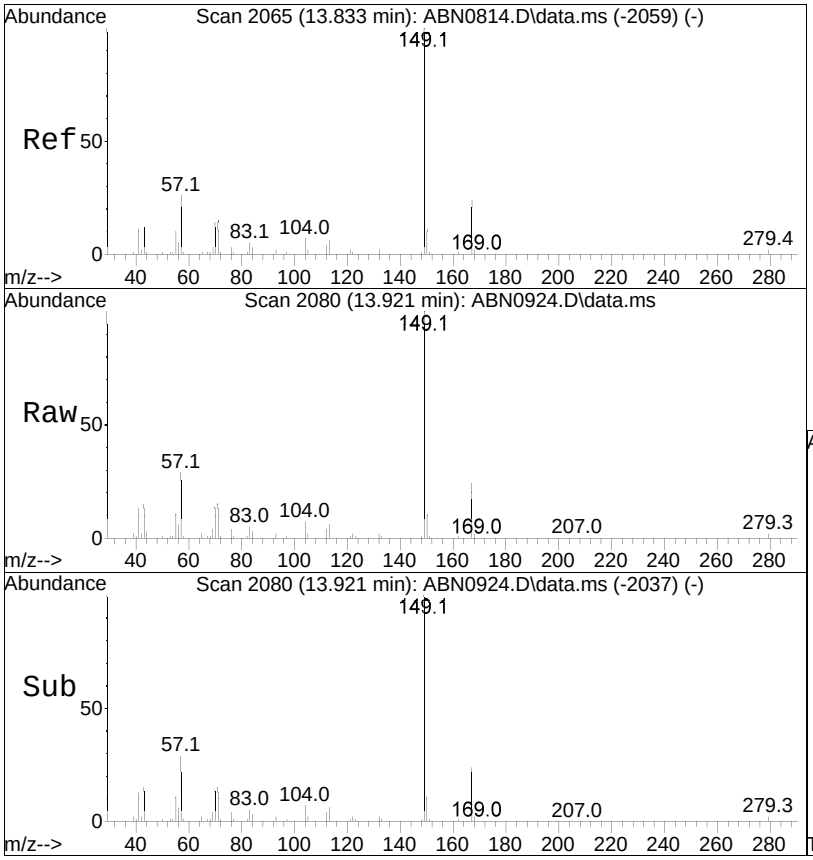


#107
Chrysene
Concen: 4.64 ug/ml
RT: 13.851 min Scan# 2068
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:228 Resp: 98558

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.0	36.0
229	19.2	15.8	23.8

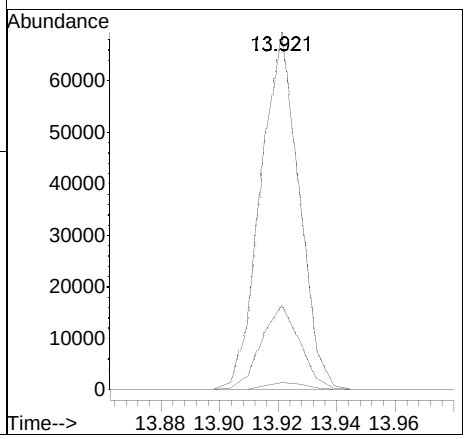


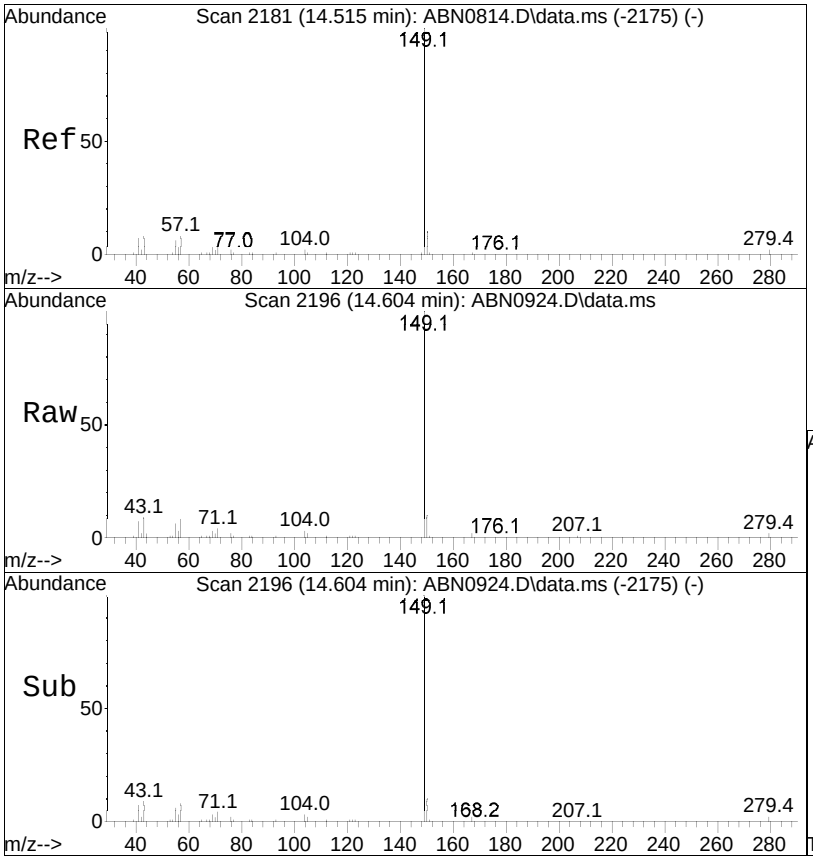


#108
Bis(2-ethylhexyl)phthalate
Concen: 5.27 ug/ml
RT: 13.921 min Scan# 2080
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:149 Resp: 62821

Ion	Ratio	Lower	Upper
149	100		
167	23.8	22.1	33.1
279	1.8	3.0	4.4#

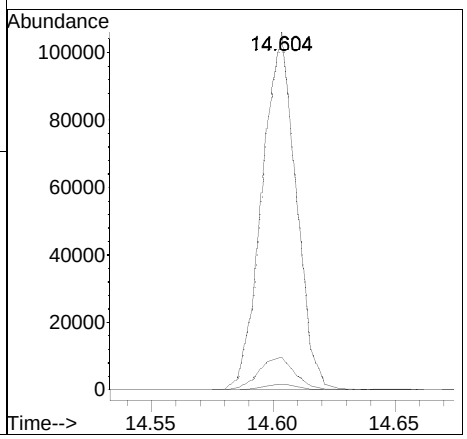


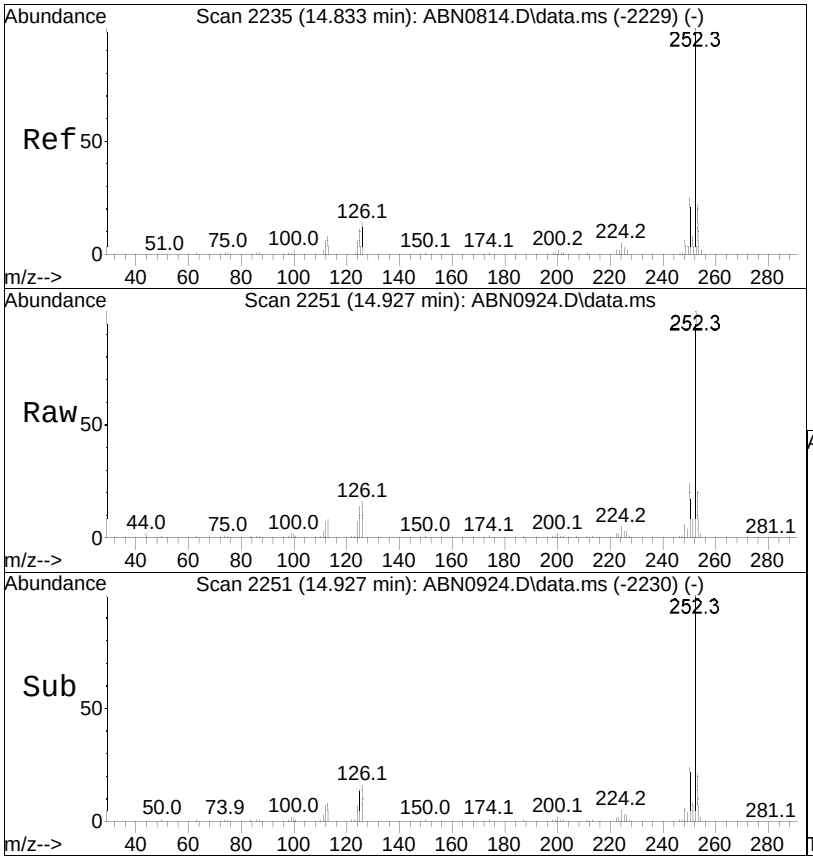


#109
Di-n-octylphthalate
Concen: 4.85 ug/ml
RT: 14.604 min Scan# 2196
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:149 Resp: 101321

Ion	Ratio	Lower	Upper
149	100		
43	9.9	18.8	28.2#
167	1.5	1.3	1.9

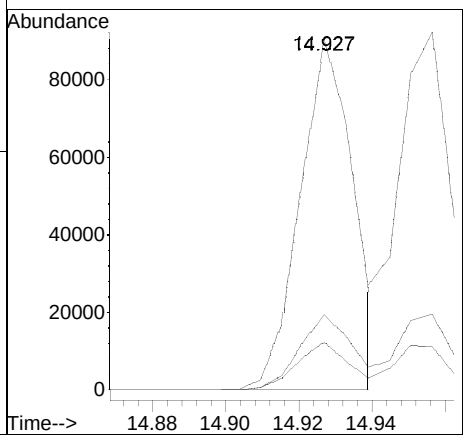


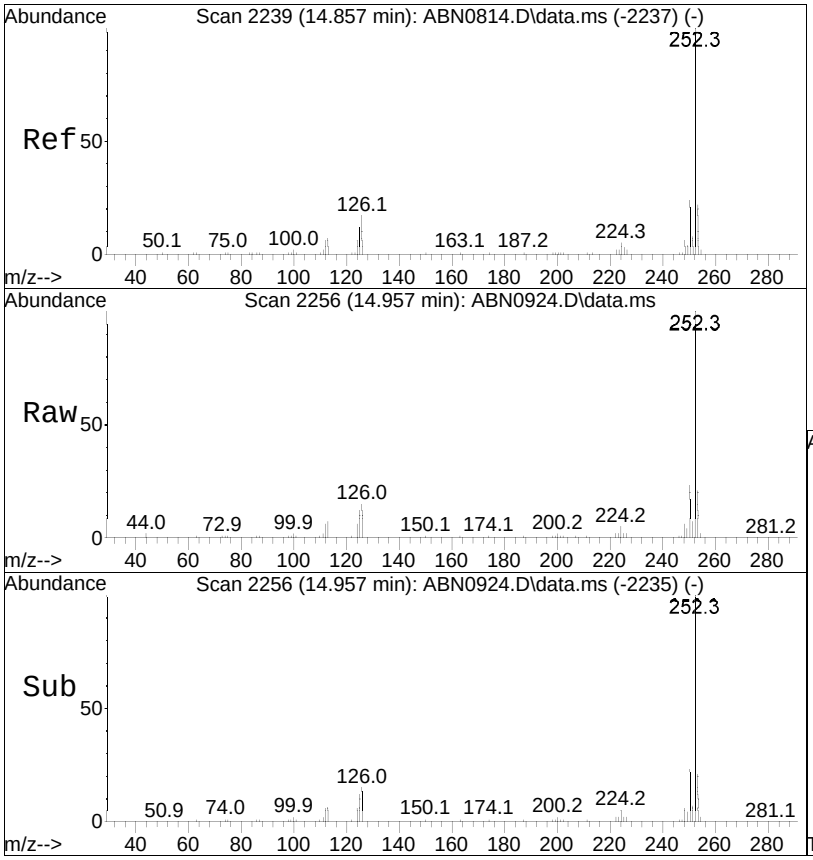


#110
Benzo(b)fluoranthene
Concen: 4.85 ug/ml
RT: 14.927 min Scan# 2251
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:252 Resp: 91835

Ion	Ratio	Lower	Upper
252	100		
125	13.3	13.3	19.9
253	21.4	17.1	25.7

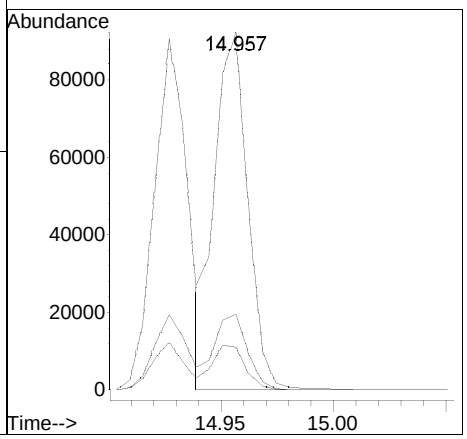


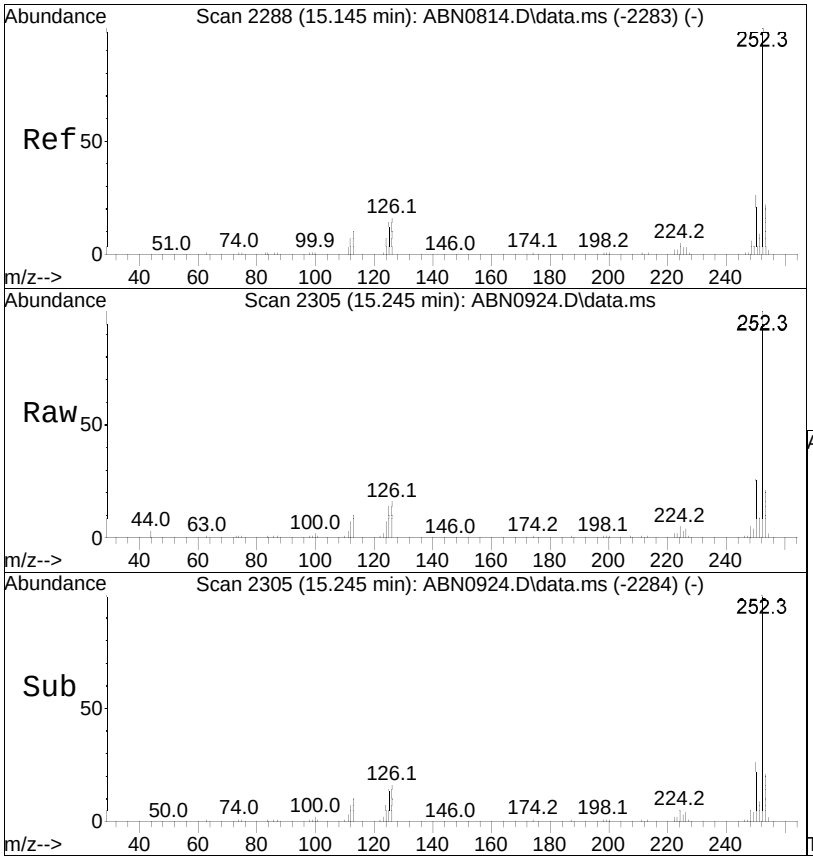


#111
Benzo(k)fluoranthene
Concen: 4.96 ug/ml
RT: 14.957 min Scan# 2256
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:252 Resp: 93990

Ion	Ratio	Lower	Upper
252	100		
125	12.5	13.0	19.6#
253	21.2	16.8	25.2

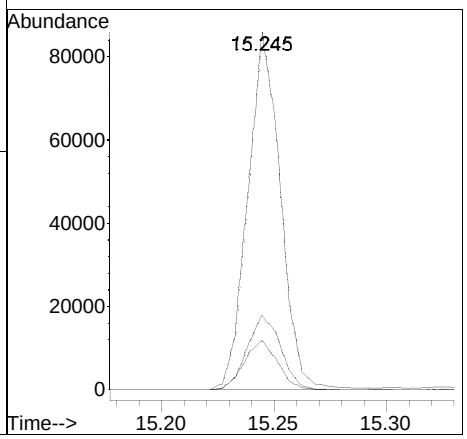


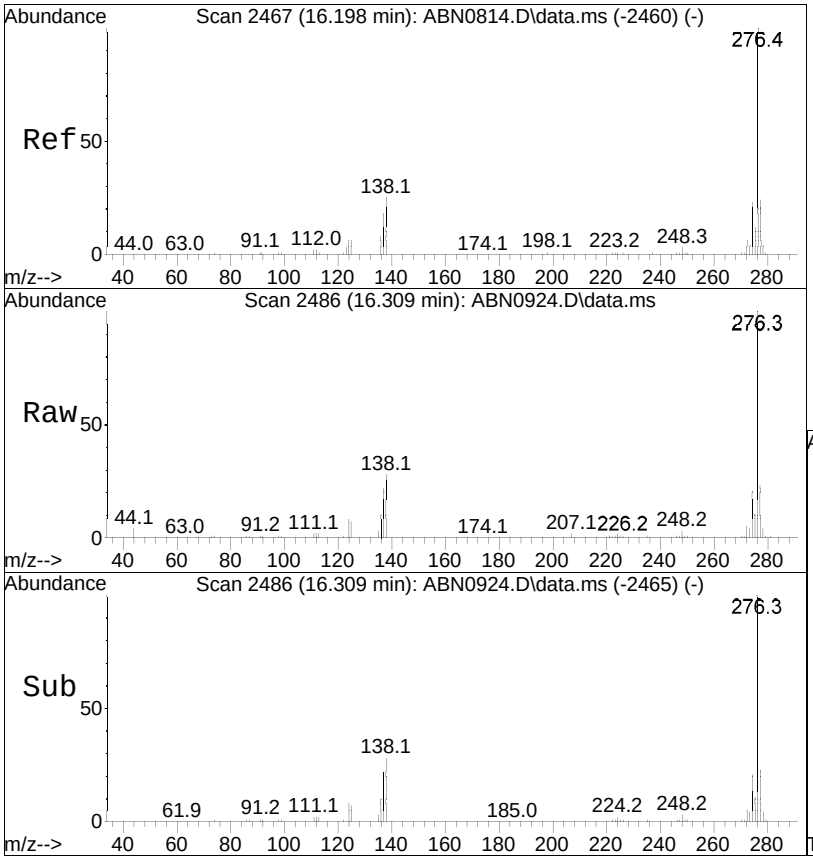


#112
Benzo(a)pyrene
Concen: 5.15 ug/ml
RT: 15.245 min Scan# 2305
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:252 Resp: 85846

Ion	Ratio	Lower	Upper
252	100		
125	14.2	14.2	21.2
253	21.6	16.9	25.3

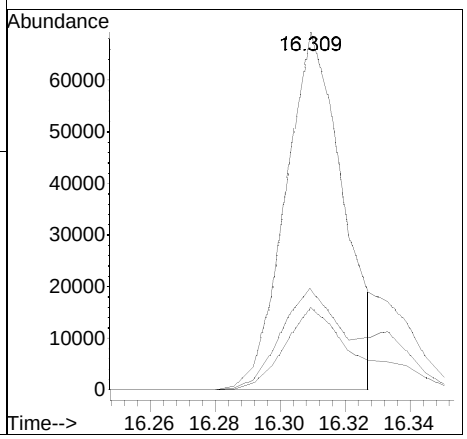


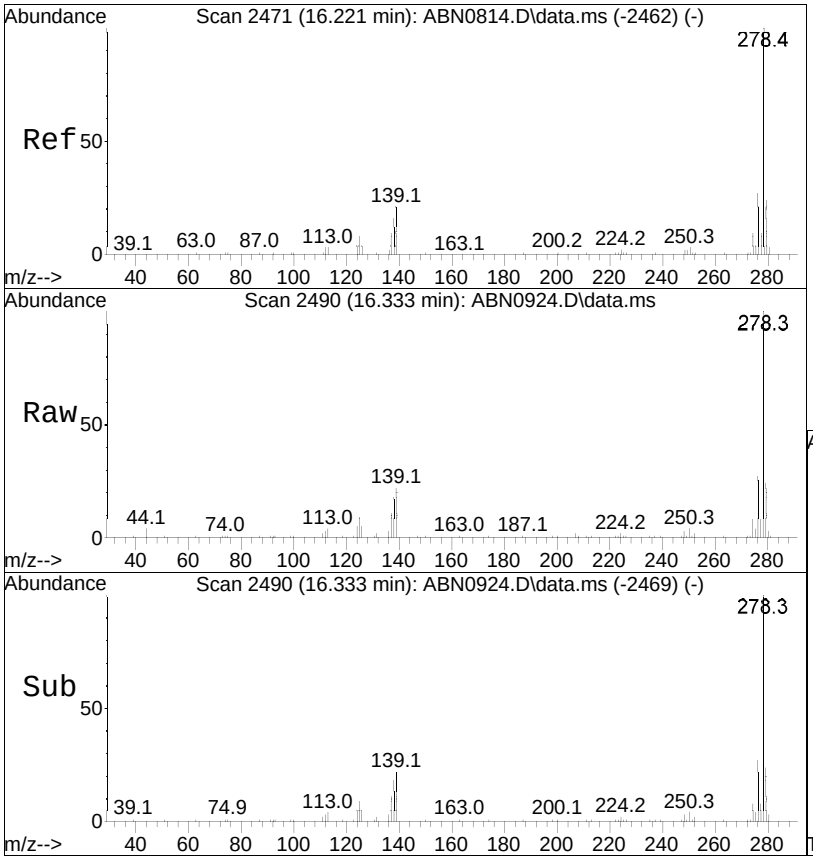


#114
Indeno(1,2,3-cd)pyrene
Concen: 5.16 ug/mL M6
RT: 16.309 min Scan# 2486
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:276 Resp: 86108

Ion	Ratio	Lower	Upper
276	100		
138	42.4	25.1	37.7#
277	29.6	18.6	28.0#

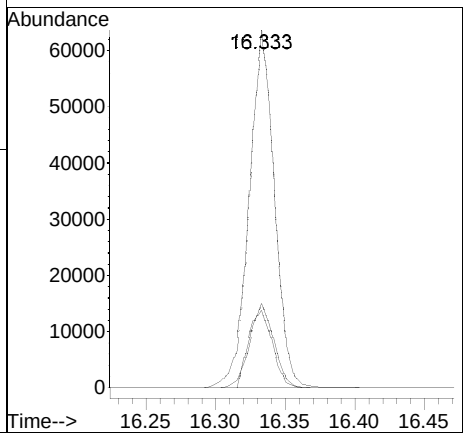


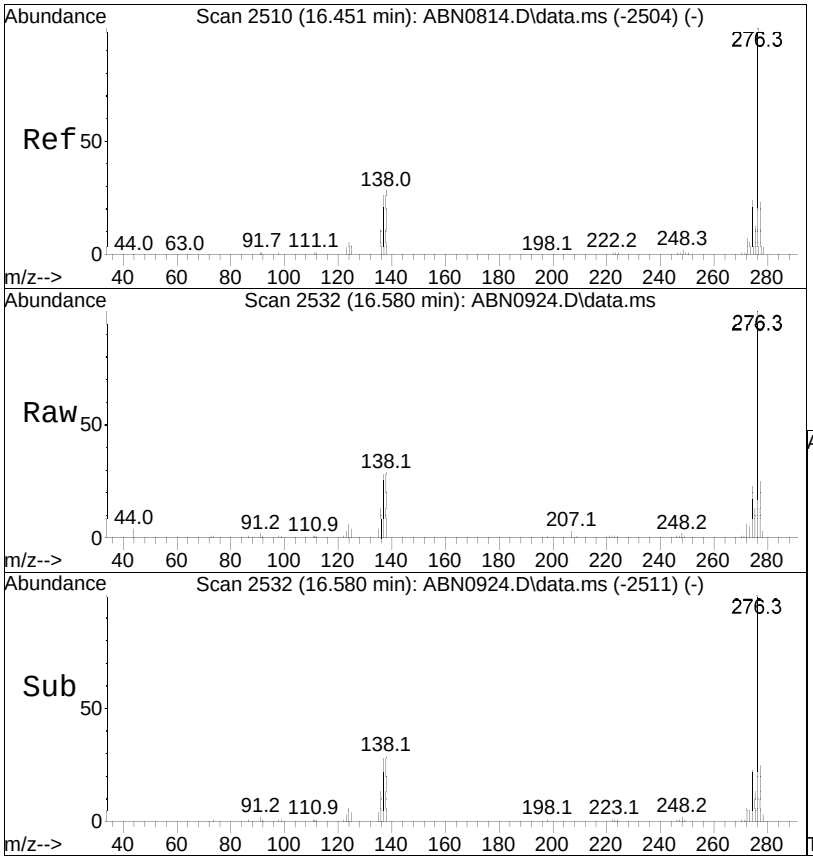


#115
Dibenzo(a,h)anthracene
Concen: 4.99 ug/ml
RT: 16.333 min Scan# 2490
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:278 Resp: 79950

Ion	Ratio	Lower	Upper
278	100		
139	20.7	20.8	31.2#
279	22.8	18.3	27.5

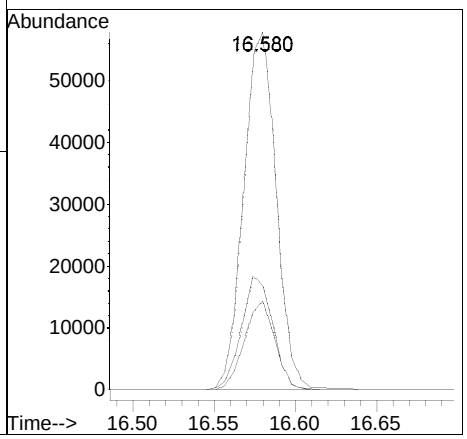




#116
Benzo(ghi)perylene
Concen: 5.38 ug/ml
RT: 16.580 min Scan# 2532
Delta R.T. 0.000 min
Lab File: ABN0924.D
Acq: 24 Sep 2024 10:04 am

Tgt Ion:276 Resp: 79790

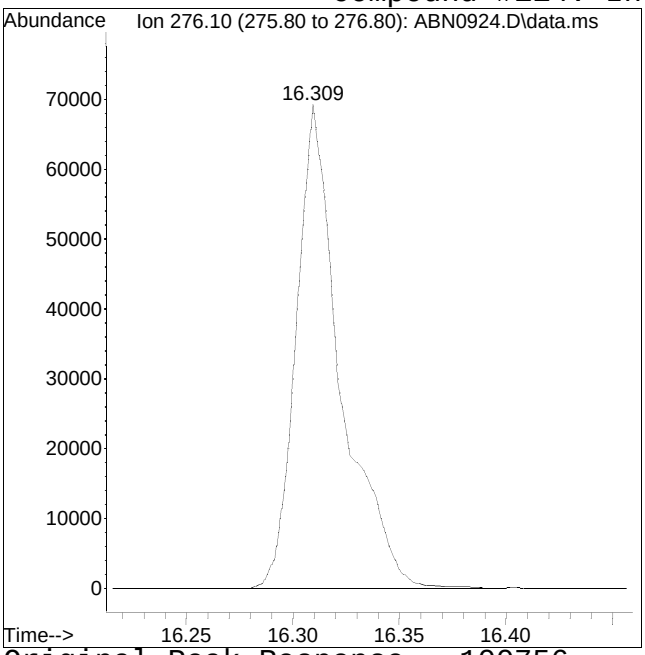
Ion	Ratio	Lower	Upper
276	100		
138	30.8	29.2	43.8
277	23.6	18.8	28.2



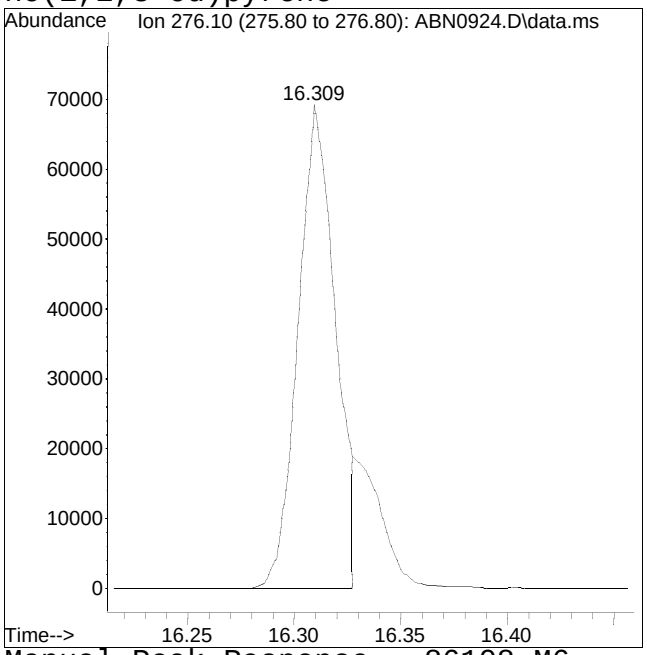
Manual Integration Report

Data Path : I:\8270\SV107\240924RVT\ QMethod : FS240730SV107RVT.m
Data File : ABN0924.D Operator : SV107:smz
Date Inj'd : 9/24/2024 10:04 am Instrument : SV107
Sample : wg1975560-3,32,,ABN 10908 Quant Date : 9/24/2024 11:06 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 100756



Manual Peak Response = 86108 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240924RVT\
Data File : AP90924.D
Acq On : 24 Sep 2024 10:29 am
Operator : SV107:smz
Sample : wg1975560-4,32,,AP9 10909 gmr0914A
Misc : wg1975560,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 24 11:05:47 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:06:44 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	118	0.00
28	T	Benzaldehyde		1.145	1.037	9.4	112	0.00
29	T	Acetophenone		2.032	1.813	10.8	111	0.00
30	T	m-Toluidine		1.860	1.735	6.7	108	0.00
31	T	2-Chloroaniline		1.773	1.502	15.3	101	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	116	0.00
56	T	a-Terpineol		0.297	0.313	-5.4	119	0.00
57	T	3-Chloroaniline		0.163	0.160	1.8	112	0.00
58	T	2,6-Dichlorophenol		0.319	0.285	10.7	100	0.00
59	T	1-chloro-2-nitrobenzene		0.155	0.144	7.1	109	0.00
60	T	Caprolactam	*	5.000	4.813	3.7	125	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.444	0.354	20.3#	97	0.00
62	T	Biphenyl		1.036	0.832	19.7	99	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	109	0.00
84	T	Dichloran	*	5.000	3.593	28.1#	93	0.00
85	T	Pentachloronitrobenzene	*	5.000	3.877	22.5#	96	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	96	0.00
99	T	Diphenamid		0.507	0.450	11.2	89	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : AP90924.D
Acq On : 24 Sep 2024 10:29 am
Operator : SV107:smz
Sample : wg1975560-4,32,,AP9 10909 gmr0914A
Misc : wg1975560,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 24 11:05:47 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:06:44 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.557	152	19336	4.000	ug/ml	0.00
55) IS2_Naphthalene-d8	7.969	136	70002	4.000	ug/ml	0.00
83) IS2_Acenaphthene-d10	9.733	164	38608	4.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	11.169	188	67018	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.998	105	25070	4.531	ug/ml	95
29) Acetophenone	7.045	105	43827	4.463	ug/ml#	83
30) m-Toluidine	7.145	106	41931	4.664	ug/ml	93
31) 2-Chloroaniline	7.545	127	36304	4.237	ug/ml	95
56) a-Terpineol	8.039	59	27378	5.270	ug/ml	90
57) 3-Chloroaniline	8.051	65	13960	4.906	ug/ml	78
58) 2,6-Dichlorophenol	8.081	162	24941	4.461	ug/ml	92
59) 1-chloro-2-nitrobenzene	8.345	111	12635	4.658	ug/ml#	1
60) Caprolactam	8.380	55	14233	4.813	ug/ml#	80
61) 1,2,4,5-Tetrachloroben...	8.880	216	31001	3.988	ug/ml	96
62) Biphenyl	9.180	154	72821	4.017	ug/ml	99
84) Dichloran	10.863	206	6701	3.593	ug/ml#	80
85) Pentachloronitrobenzene	11.016	237	7062	3.877	ug/ml	84
99) Diphenamid	12.074	167	37688	4.441	ug/ml#	83

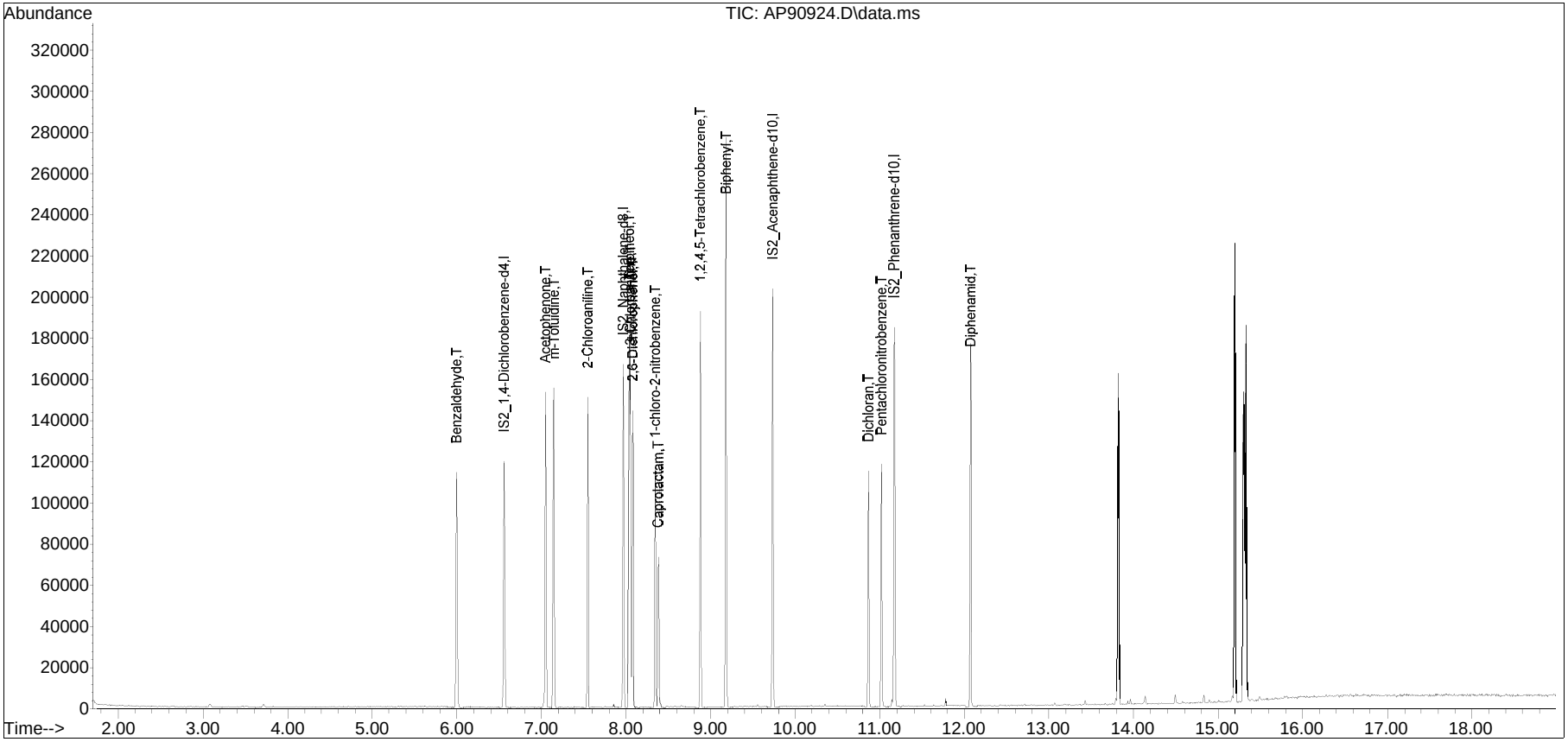
(#) = qualifier out of range (m) = manual integration (+) = signals summed

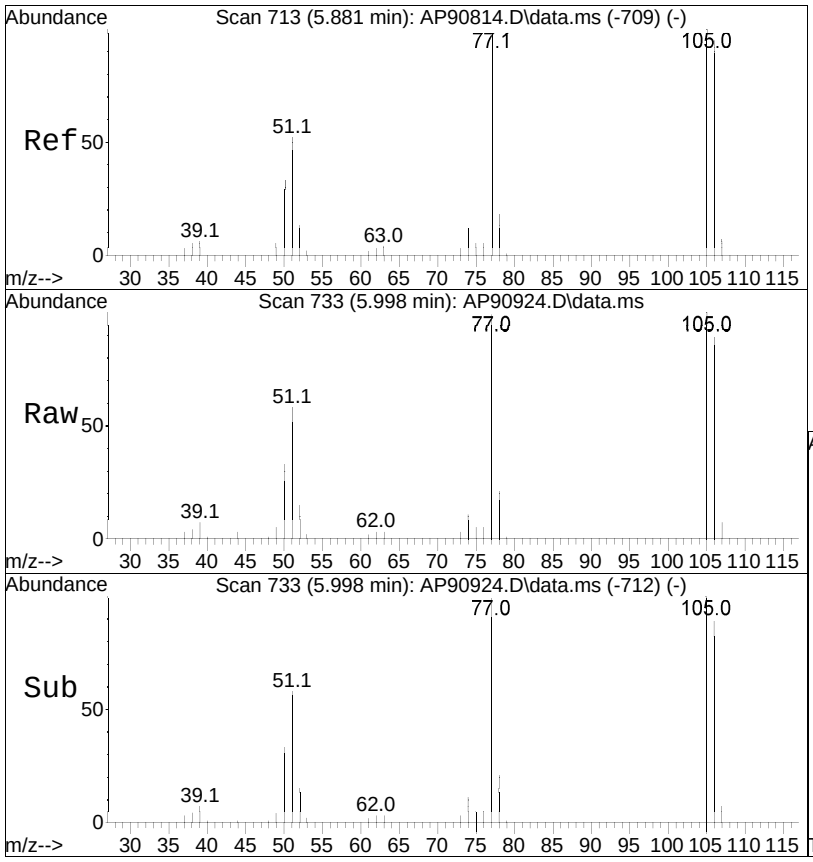
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : AP90924.D
Acq On : 24 Sep 2024 10:29 am
Operator : SV107:smz
Sample : wg1975560-4,32,,AP9 10909 gmr0914A
Misc : wg1975560,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 24 11:05:47 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:06:44 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

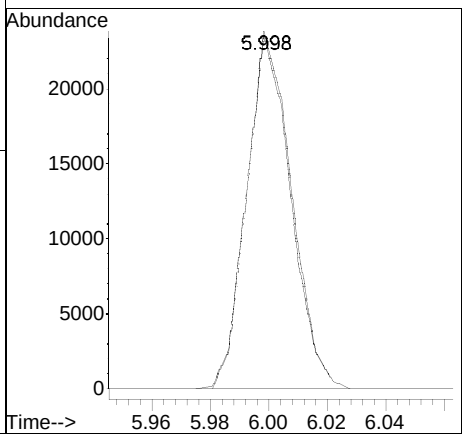


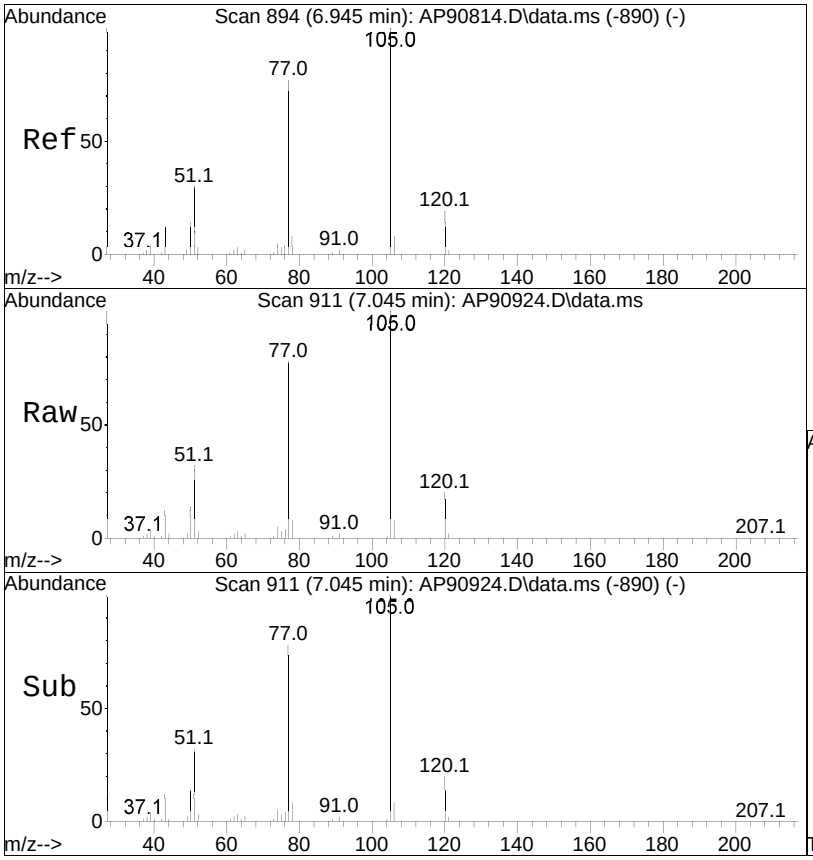


#28
Benzaldehyde
Concen: 4.53 ug/ml
RT: 5.998 min Scan# 733
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:105 Resp: 25070

Ion	Ratio	Lower	Upper
105	100		
77	97.8	82.2	123.4

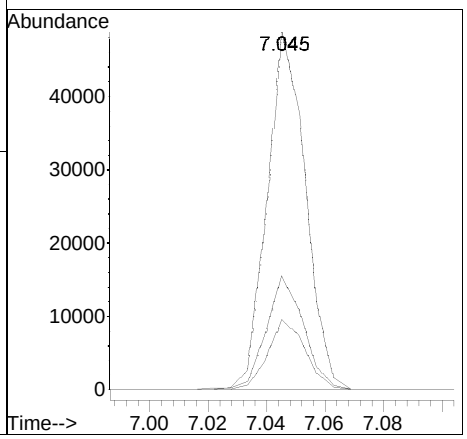


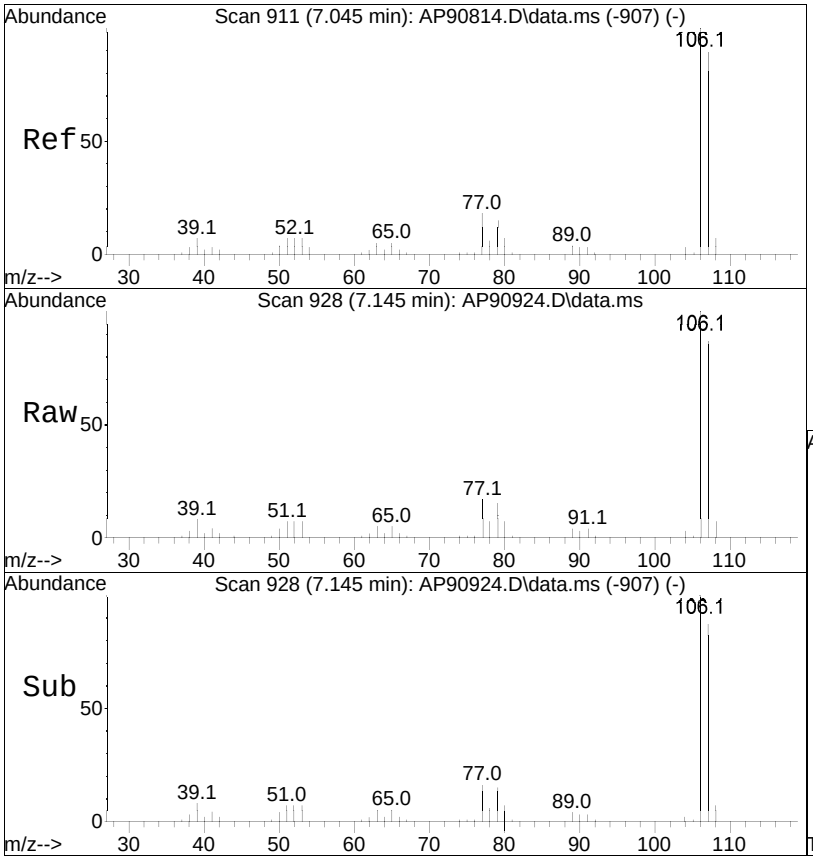


#29
Acetophenone
Concen: 4.46 ug/ml
RT: 7.045 min Scan# 911
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:105 Resp: 43827

Ion	Ratio	Lower	Upper
105	100		
120	19.2	20.5	30.7#
51	31.2	34.9	52.3#

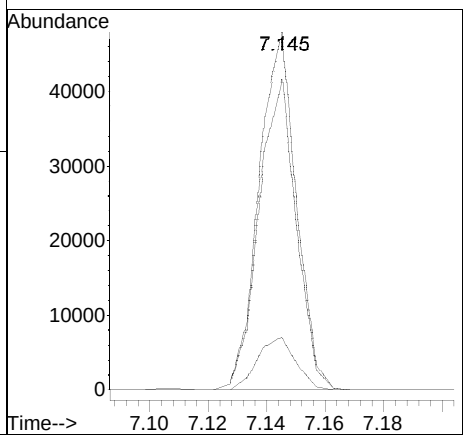


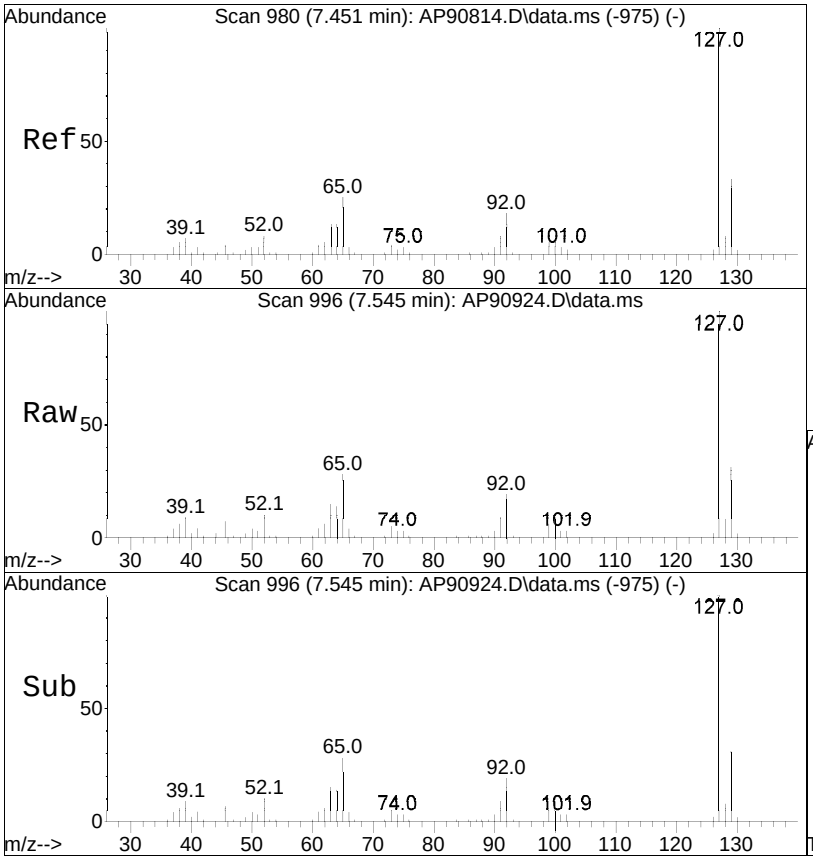


#30
m-Toluidine
Concen: 4.66 ug/ml
RT: 7.145 min Scan# 928
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:106 Resp: 41931

Ion	Ratio	Lower	Upper
106	100		
107	87.2	75.7	113.5
79	15.1	11.8	17.8

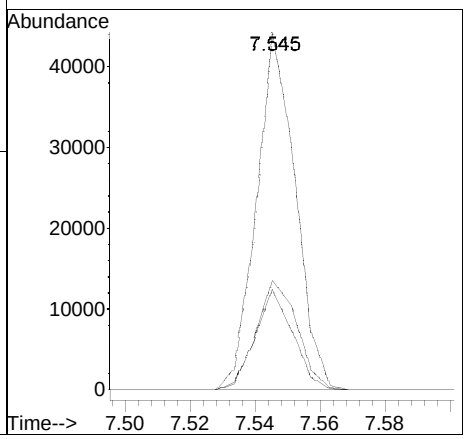


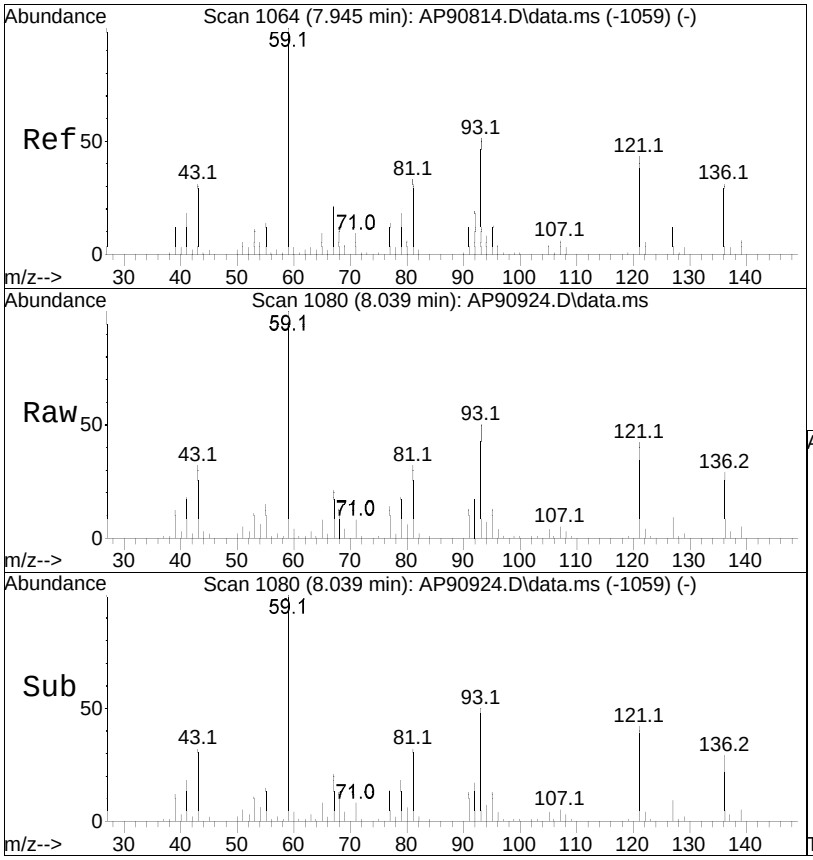


#31
2-Chloroaniline
Concen: 4.24 ug/ml
RT: 7.545 min Scan# 996
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:127 Resp: 36304

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.9	38.9
65	27.7	26.3	39.5

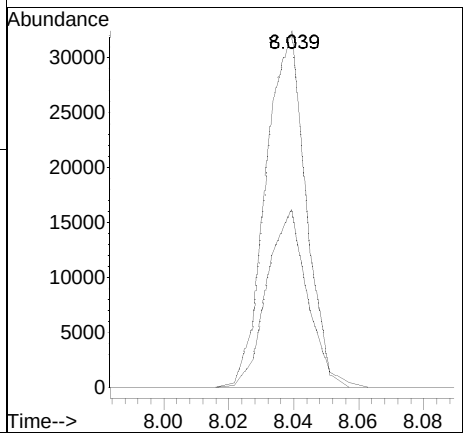


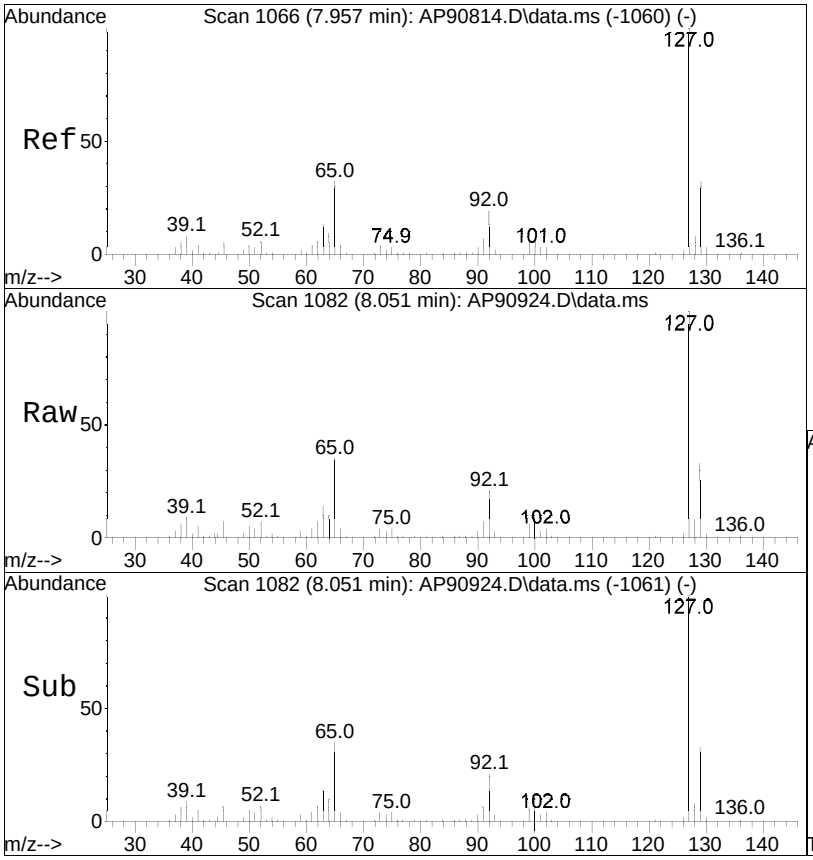


#56
a-Terpineol
Concen: 5.27 ug/ml
RT: 8.039 min Scan# 1080
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion: 59 Resp: 27378

Ion	Ratio	Lower	Upper
59	100		
93	51.0	35.6	53.4

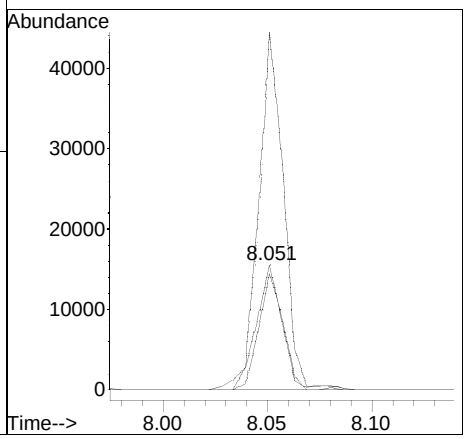


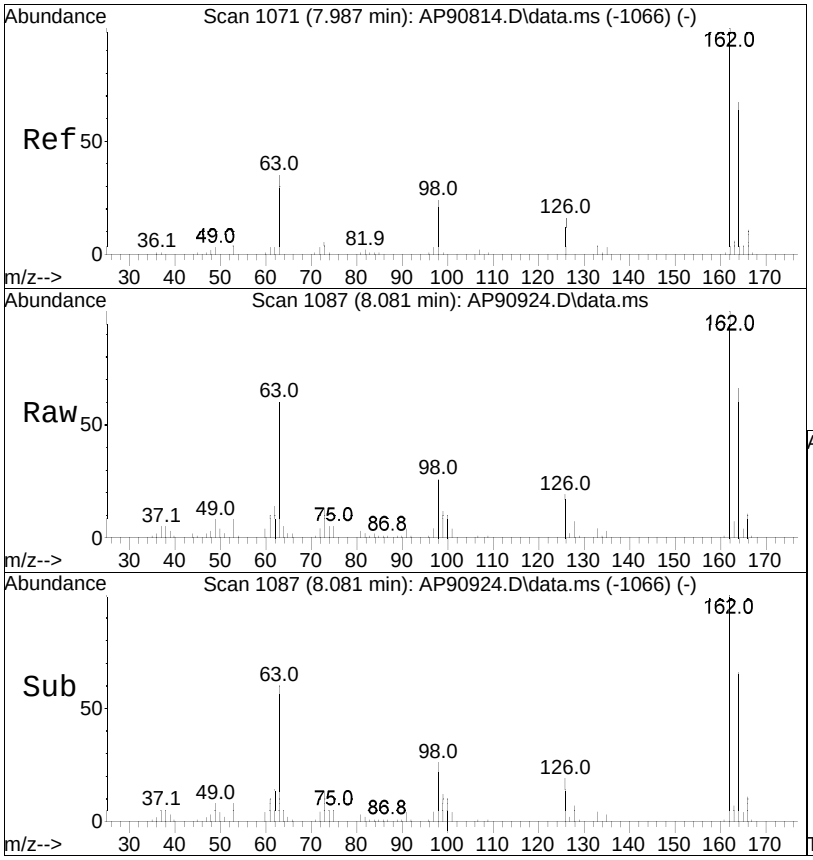


#57
3-Chloroaniline
Concen: 4.91 ug/ml
RT: 8.051 min Scan# 1082
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion: 65 Resp: 13960

Ion	Ratio	Lower	Upper
65	100		
127	257.2	243.2	364.8
129	82.8	78.8	118.2

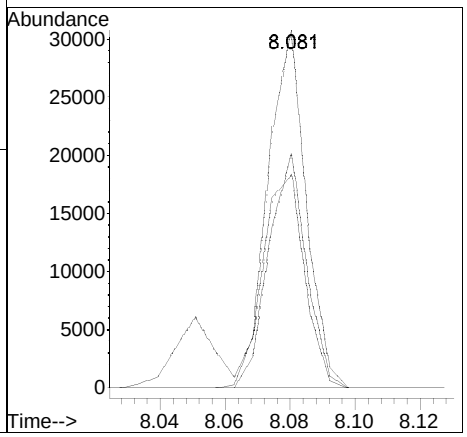


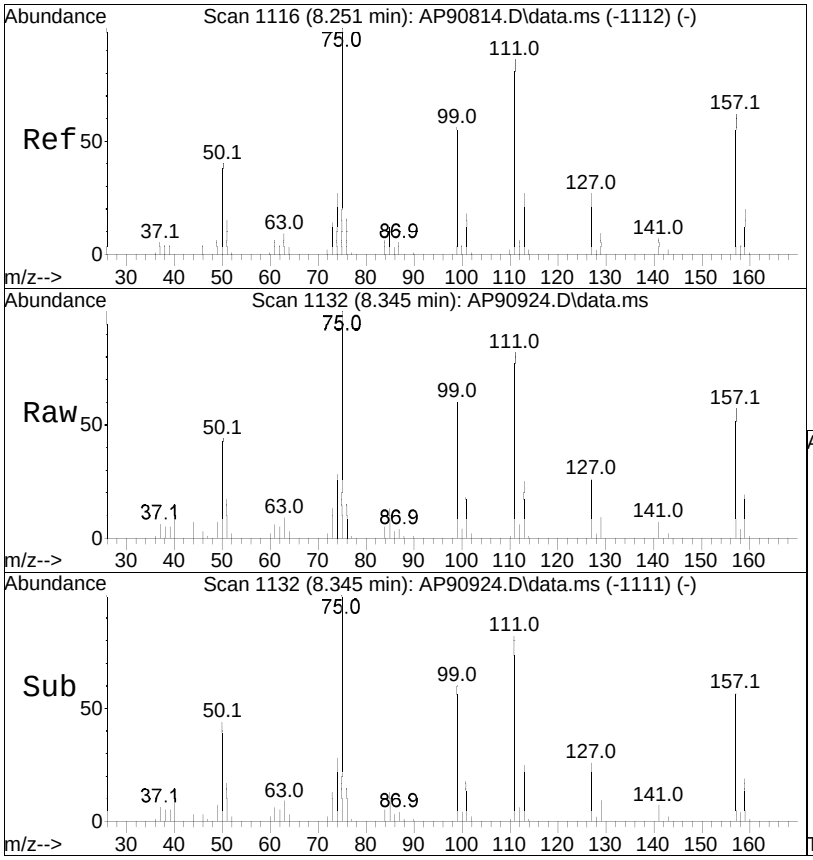


#58
2,6-Dichlorophenol
Concen: 4.46 ug/ml
RT: 8.081 min Scan# 1087
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:162 Resp: 24941

Ion	Ratio	Lower	Upper
162	100		
164	64.7	51.1	76.7
63	64.7	60.8	91.2

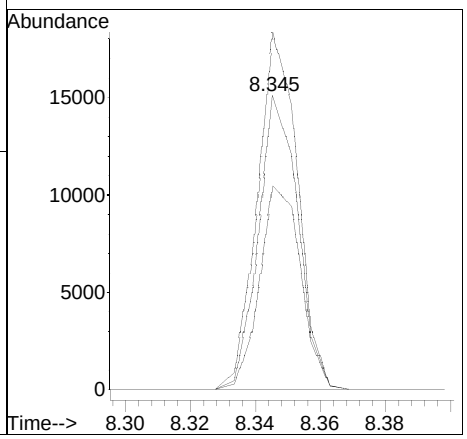


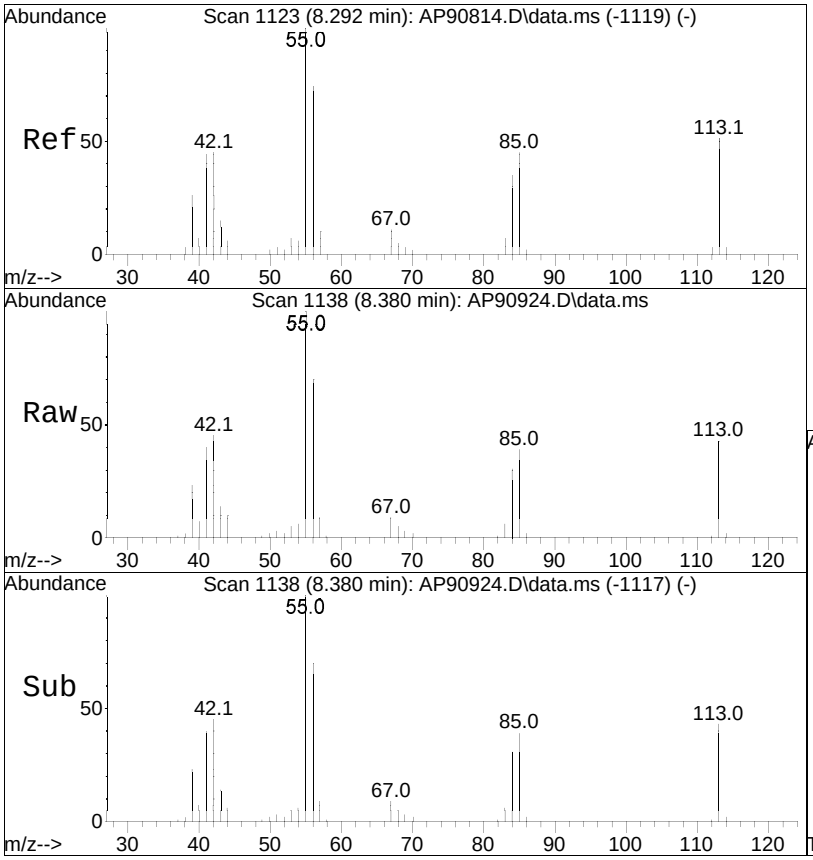


#59
1-chloro-2-nitrobenzene
Concen: 4.66 ug/ml
RT: 8.345 min Scan# 1132
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:111 Resp: 12635

Ion	Ratio	Lower	Upper
111	100		
157	72.4	0.0	0.0#
75	123.8	28.2	42.2#

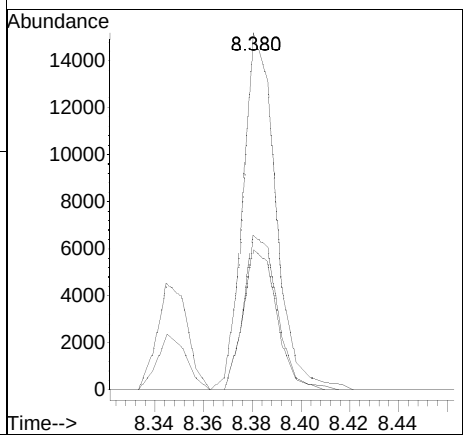


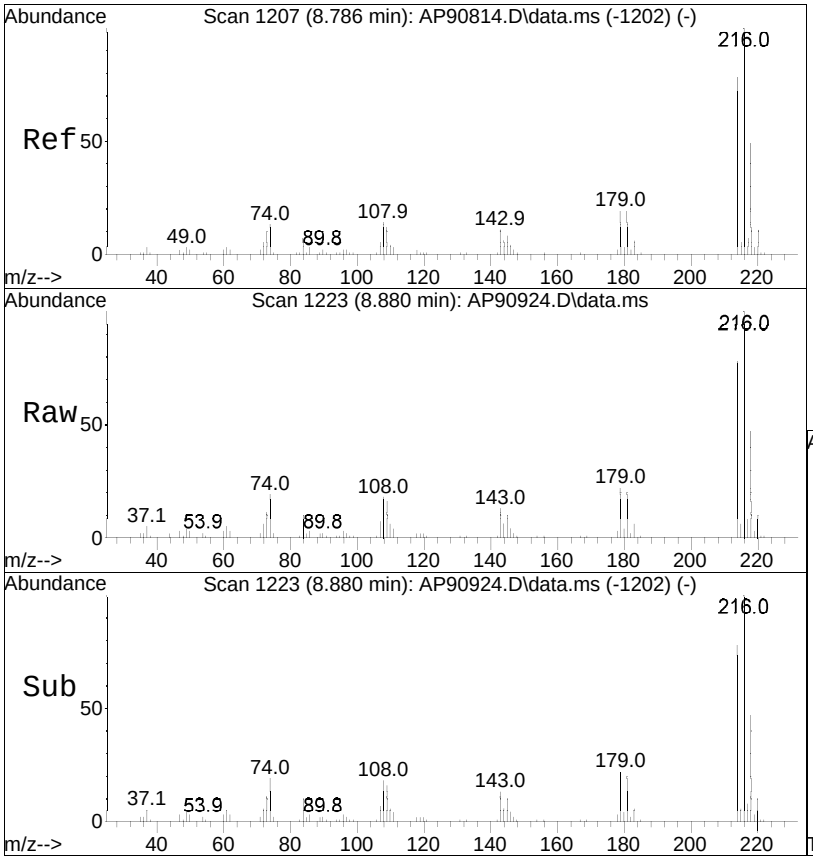


#60
Caprolactam
Concen: 4.81 ug/ml
RT: 8.380 min Scan# 1138
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion: 55 Resp: 14233

Ion	Ratio	Lower	Upper
55	100		
85	40.1	19.8	29.6#
113	44.3	29.6	44.4

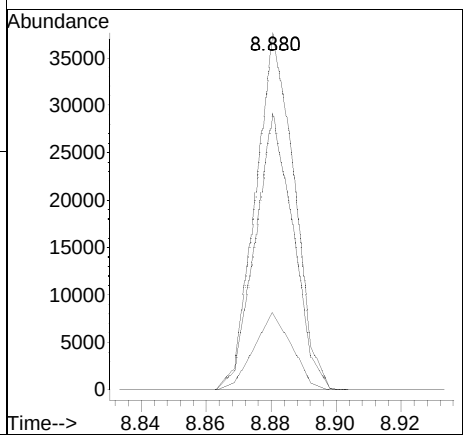


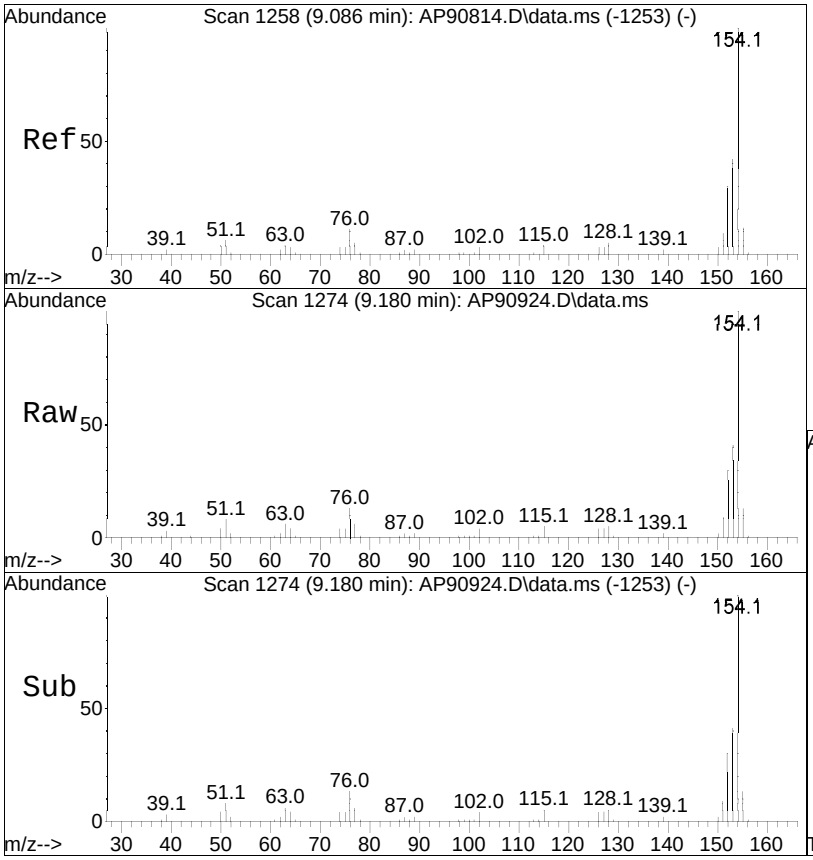


#61
1,2,4,5-Tetrachlorobenzene
Concen: 3.99 ug/ml
RT: 8.880 min Scan# 1223
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:216 Resp: 31001

Ion	Ratio	Lower	Upper
216	100		
214	76.4	63.7	95.5
179	21.3	19.0	28.6

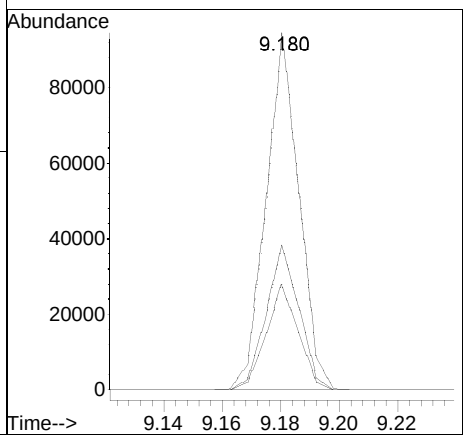


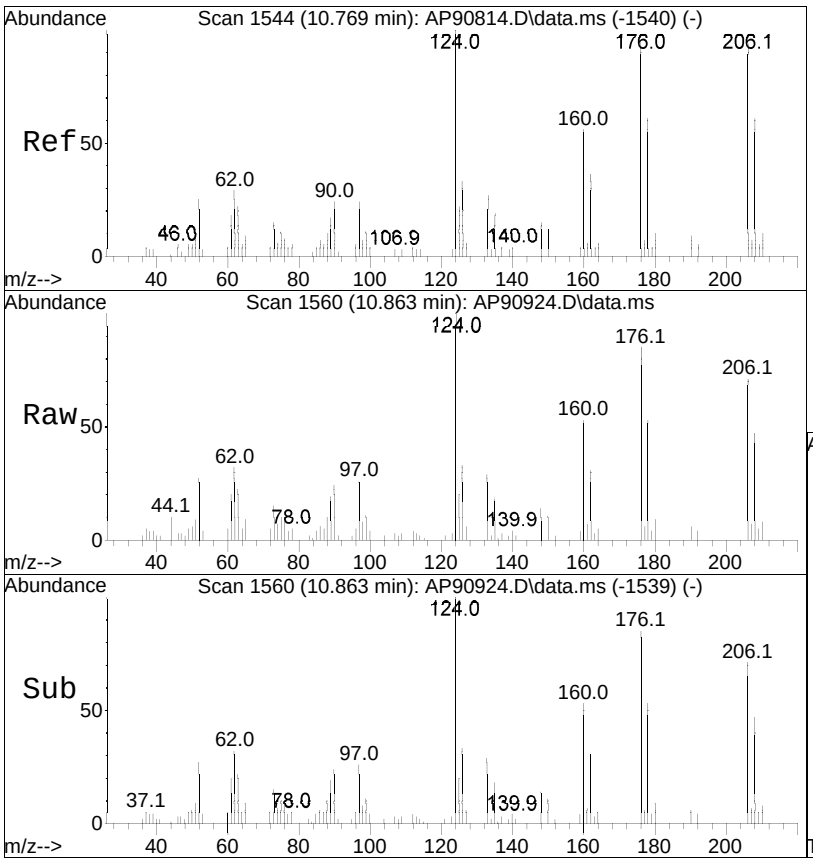


#62
Biphenyl
Concen: 4.02 ug/ml
RT: 9.180 min Scan# 1274
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:154 Resp: 72821

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	29.1	22.5	33.7

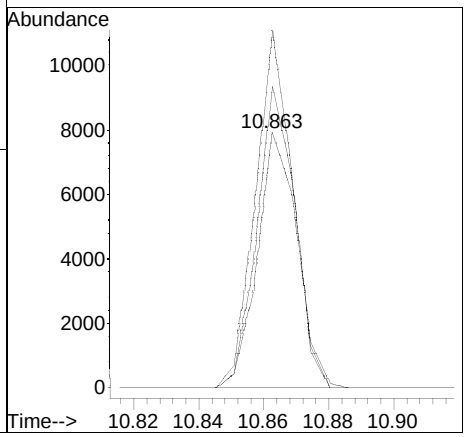


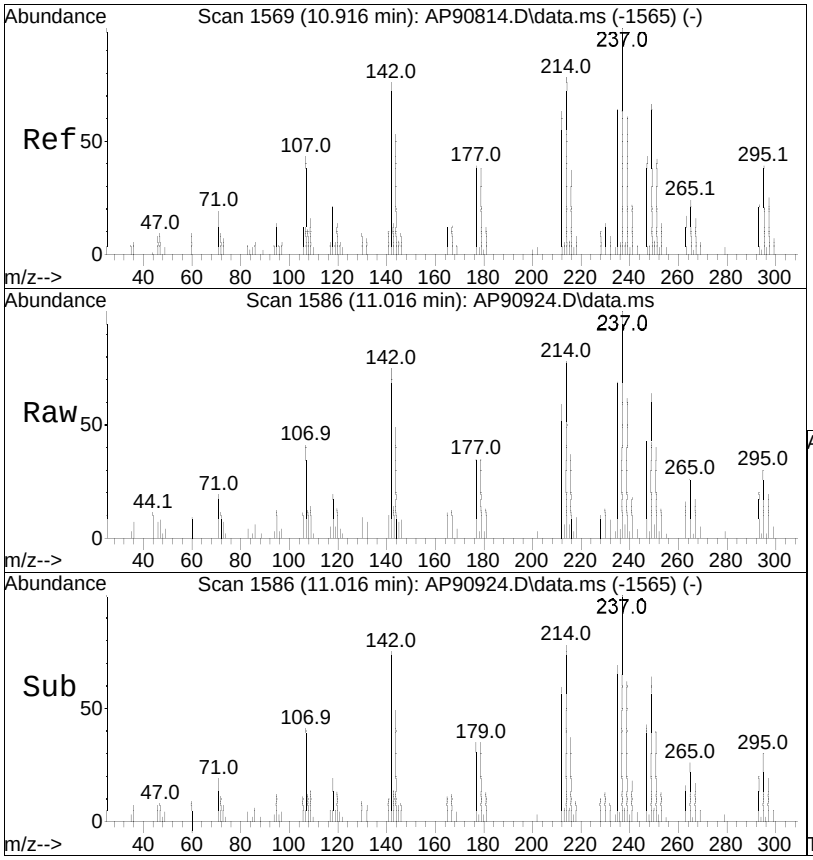


#84
Dichloran
Concen: 3.59 ug/ml
RT: 10.863 min Scan# 1560
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:206 Resp: 6701

Ion	Ratio	Lower	Upper
206	100		
176	113.0	104.6	157.0
124	130.2	130.5	195.7#

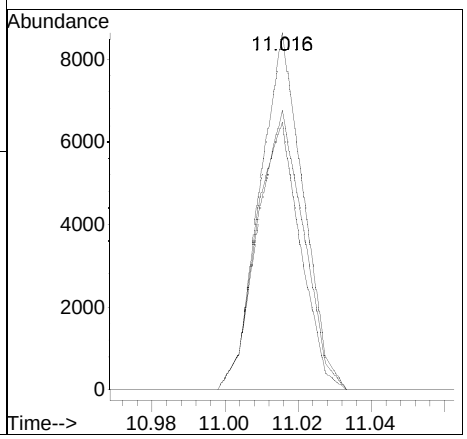


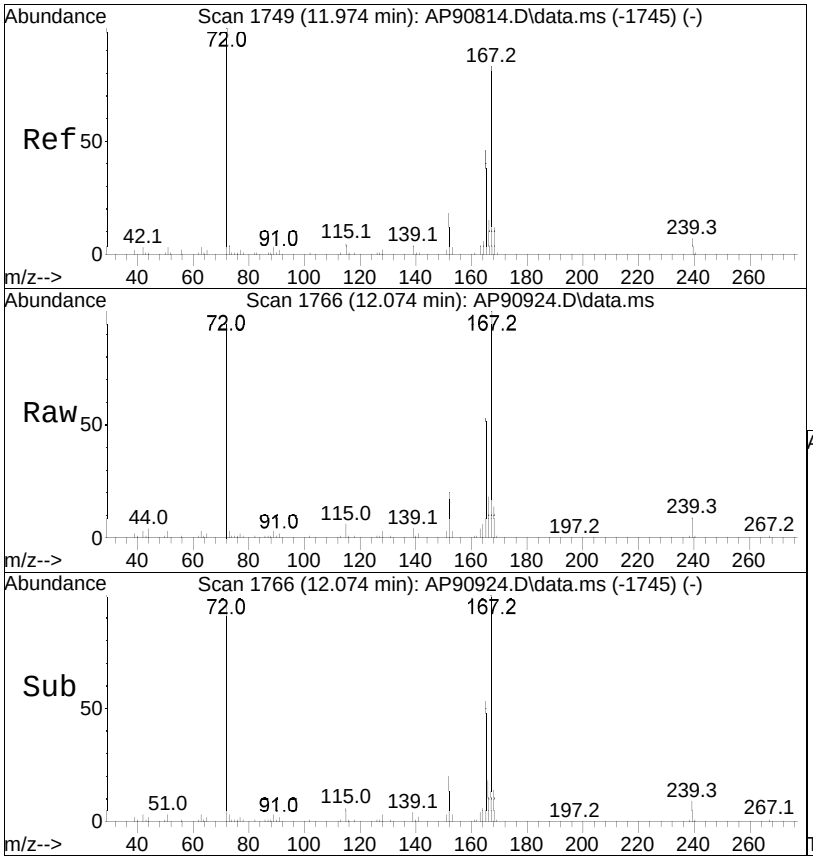


#85
Pentachloronitrobenzene
Concen: 3.88 ug/ml
RT: 11.016 min Scan# 1586
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:237 Resp: 7062

Ion	Ratio	Lower	Upper
237	100		
142	77.1	77.0	115.4
214	82.8	58.2	87.4

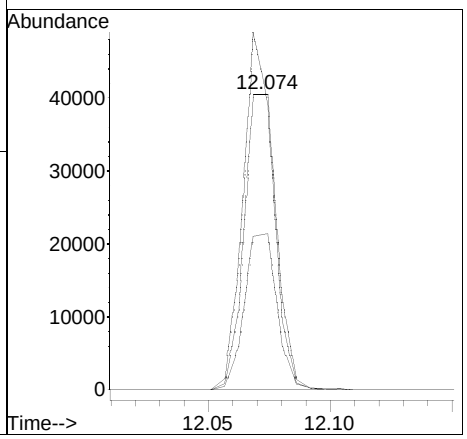




#99
Diphenamid
Concen: 4.44 ug/ml
RT: 12.074 min Scan# 1766
Delta R.T. 0.000 min
Lab File: AP90924.D
Acq: 24 Sep 2024 10:29 am

Tgt Ion:167 Resp: 37688

Ion	Ratio	Lower	Upper
167	100		
72	109.1	109.7	164.5#
165	53.0	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\240924RVT\	QMethod	: FS240730SV107RVT.m
Data File	: AP90924.D	Operator	: SV107:smz
Date Inj'd	: 9/24/2024 10:29 am	Instrument	: SV107
Sample	: wg1975560-4,32,,AP9 10909	Quant Date	: 9/24/2024 11:06 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240924RVT\
Data File : ADP0924.D
Acq On : 24 Sep 2024 10:54 am
Operator : SV107:smz
Sample : wg1975560-5,32,,ADP 10751 HNY0826A
Misc : wg1975560,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 24 11:30:13 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:31:07 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	112	0.00
33		1,4-Dioxane		0.459	0.500	-8.9	140	0.00
34	T	n-Decane		1.388	1.708	-23.1#	152	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	106	0.00
87	T	Atrazine		0.315	0.327	-3.8	110	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	98	0.00
101	T	n-Octadecane		0.381	0.551	-44.6#	144	0.00
102	T	Parathion	*	5.000	5.986	-19.7	142	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	4.588	8.2	117	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : ADP0924.D
Acq On : 24 Sep 2024 10:54 am
Operator : SV107:smz
Sample : wg1975560-5,32,,ADP 10751 HNY0826A
Misc : wg1975560,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 24 11:30:13 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:31:07 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.557	152	20013	4.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	9.733	164	39412	4.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	11.169	188	73403	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	2.016	88	12519	5.447	ug/ml#	68
34) n-Decane	6.445	57	42727	6.151	ug/ml#	46
87) Atrazine	10.933	200	16092	5.191	ug/ml	94
101) n-Octadecane	11.139	57	50524	7.220	ug/ml#	1
102) Parathion	11.951	109	8810	5.986	ug/ml#	94
103) 3,3'-Dimethylbenzidine	13.245	212	59699	4.588	ug/ml	99

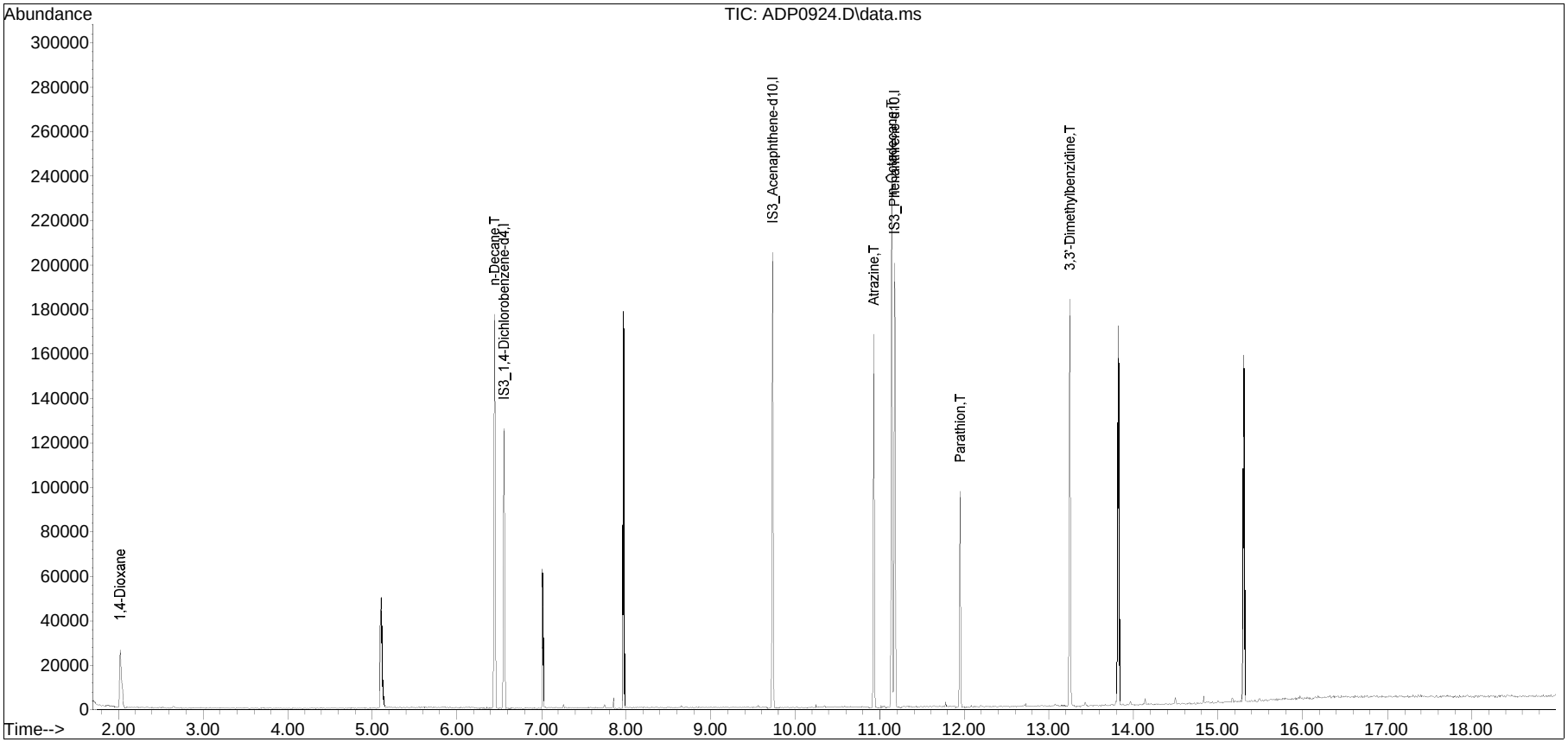
(#) = qualifier out of range (m) = manual integration (+) = signals summed

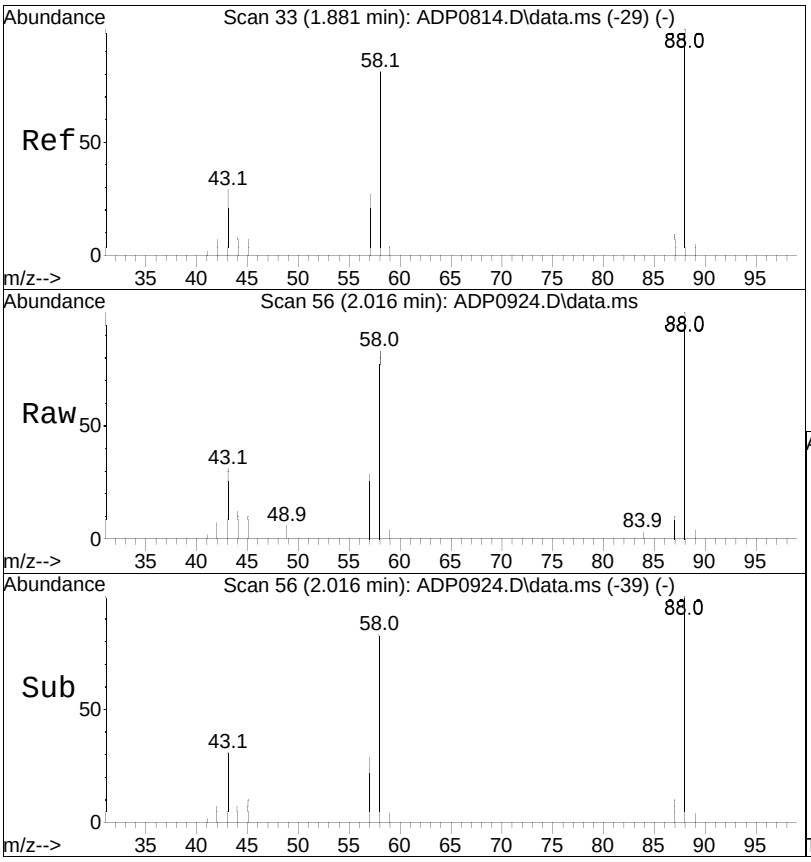
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240924RVT\
Data File : ADP0924.D
Acq On : 24 Sep 2024 10:54 am
Operator : SV107:smz
Sample : wg1975560-5,32,,ADP 10751 HNY0826A
Misc : wg1975560,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 24 11:30:13 2024
Quant Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:31:07 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

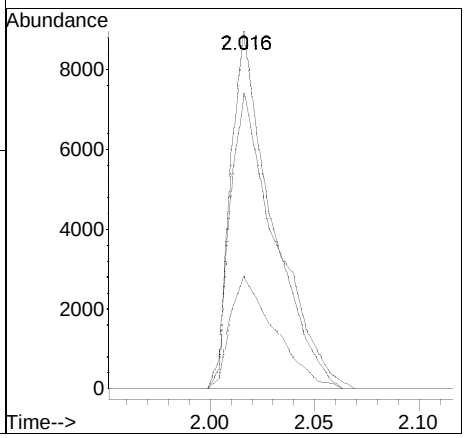


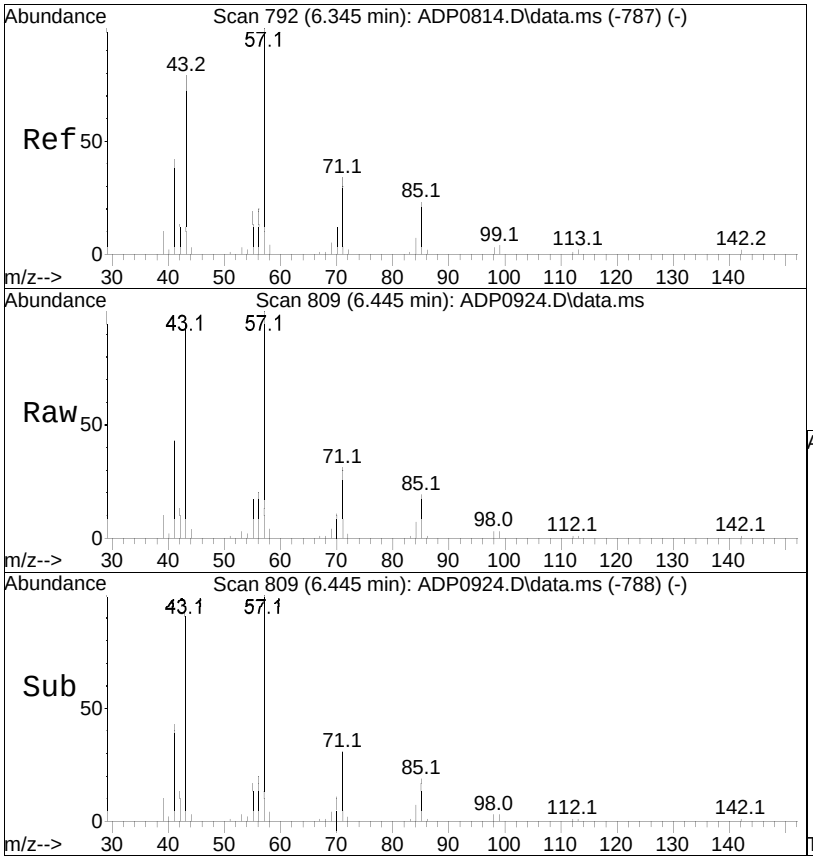


#33
1,4-Dioxane
Concen: 5.45 ug/ml
RT: 2.016 min Scan# 56
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 10:54 am

Tgt Ion: 88 Resp: 12519

Ion	Ratio	Lower	Upper
88	100		
58	87.5	44.8	67.2#
43	33.6	22.4	33.6

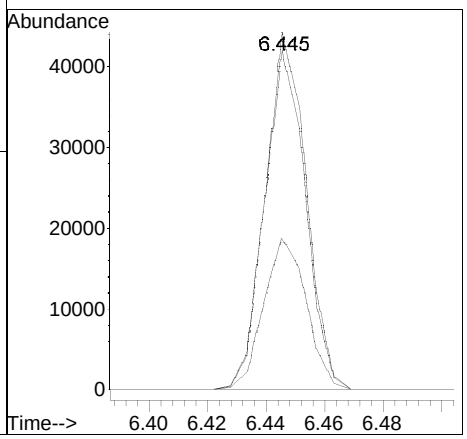


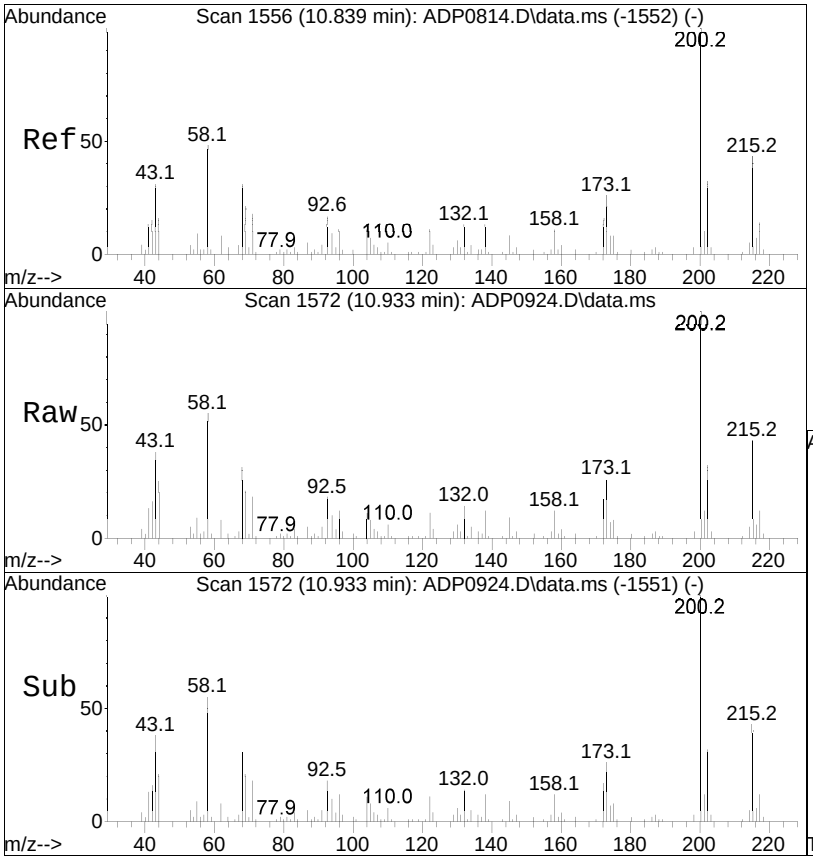


#34
n-Decane
Concen: 6.15 ug/ml
RT: 6.445 min Scan# 809
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 10:54 am

Tgt Ion: 57 Resp: 42727

Ion	Ratio	Lower	Upper
57	100		
43	94.2	0.2	0.2#
41	44.1	0.2	0.2#

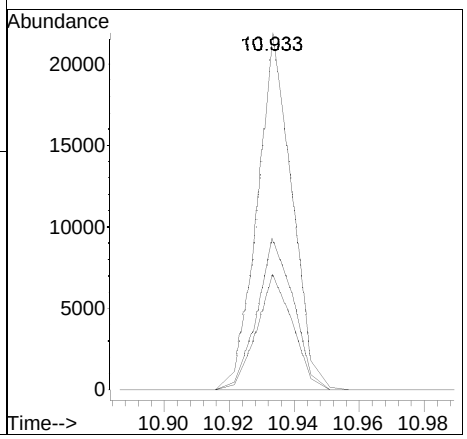


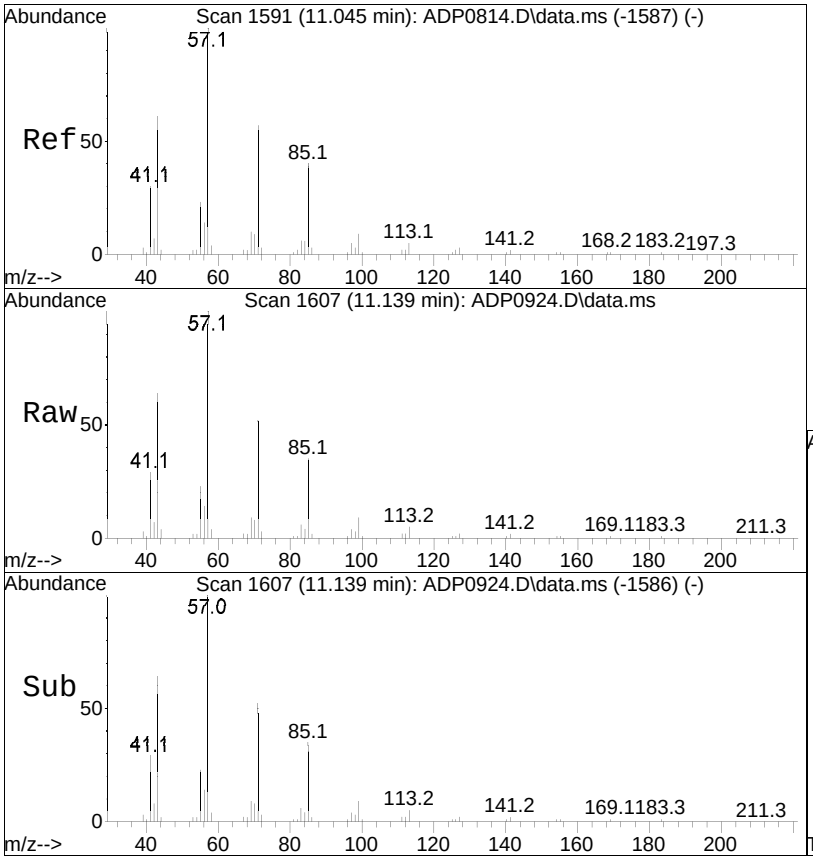


#87
Atrazine
Concen: 5.19 ug/ml
RT: 10.933 min Scan# 1572
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 10:54 am

Tgt Ion:200 Resp: 16092

Ion	Ratio	Lower	Upper
200	100		
202	33.6	25.8	38.6
215	44.6	40.2	60.4

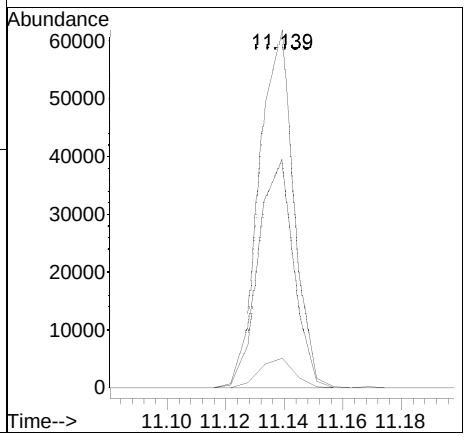


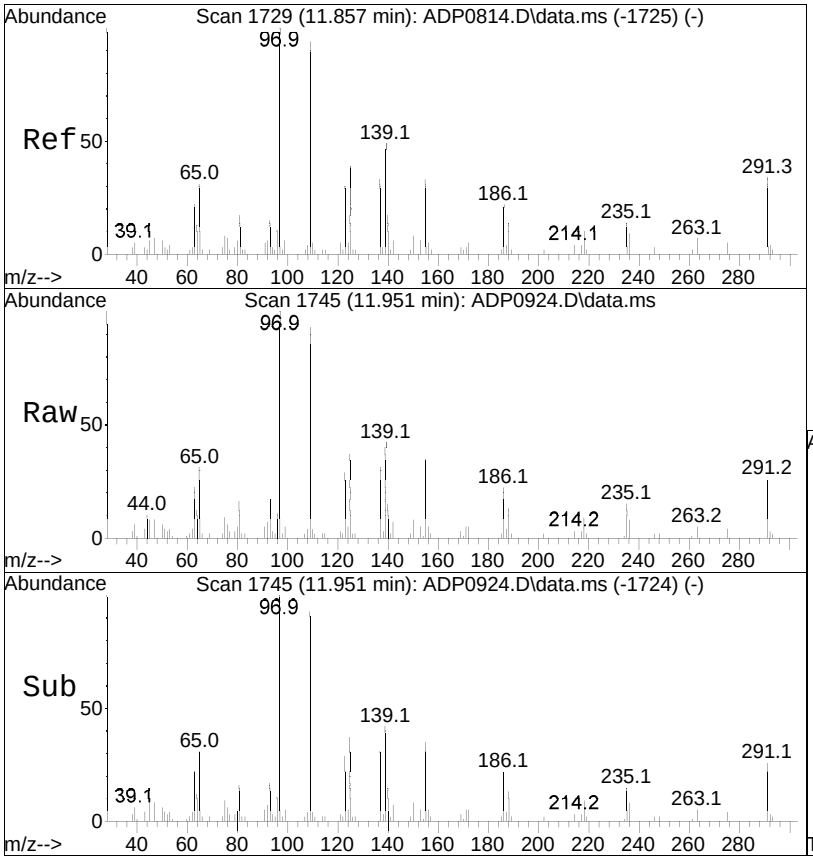


#101
n-Octadecane
Concen: 7.22 ug/ml
RT: 11.139 min Scan# 1607
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 10:54 am

Tgt Ion: 57 Resp: 50524

Ion	Ratio	Lower	Upper
57	100		
43	65.3	9.0	13.6#
70	8.4	0.2	0.2#

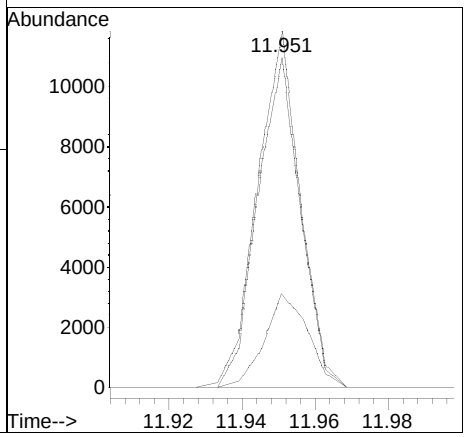


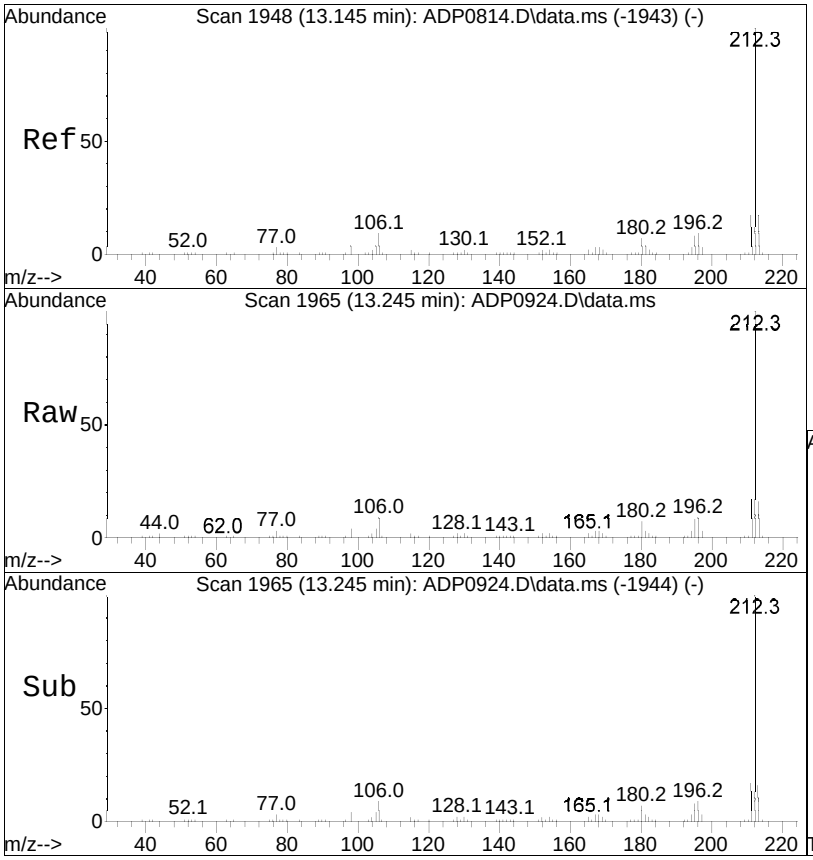


#102
Parathion
Concen: 5.99 ug/ml
RT: 11.951 min Scan# 1745
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 10:54 am

Tgt Ion:109 Resp: 8810

Ion	Ratio	Lower	Upper
109	100		
97	108.7	87.4	131.2
291	29.2	34.2	51.2#

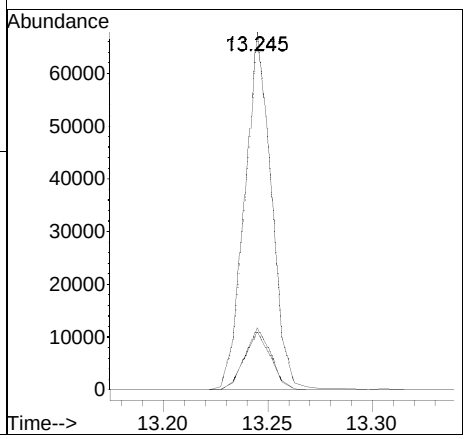




#103
3,3'-Dimethylbenzidine
Concen: 4.59 ug/ml
RT: 13.245 min Scan# 1965
Delta R.T. 0.000 min
Lab File: ADP0924.D
Acq: 24 Sep 2024 10:54 am

Tgt Ion:212 Resp: 59699

Ion	Ratio	Lower	Upper
212	100		
211	17.0	12.9	19.3
213	16.2	13.2	19.8



Manual Integration Report

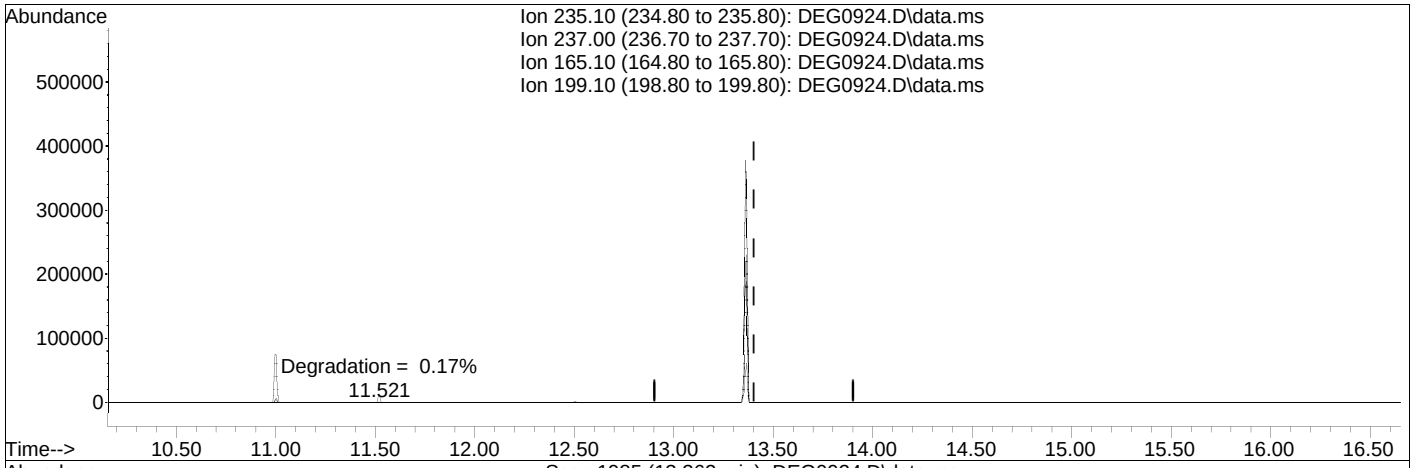
Data Path	: I:\8270\SV107\240924RVT\	QMethod	: FS240730SV107RVT.m
Data File	: ADP0924.D	Operator	: SV107:smz
Date Inj'd	: 9/24/2024 10:54 am	Instrument	: SV107
Sample	: wg1975560-5,32,,ADP 10751	Quant Date	: 9/24/2024 11:31 am

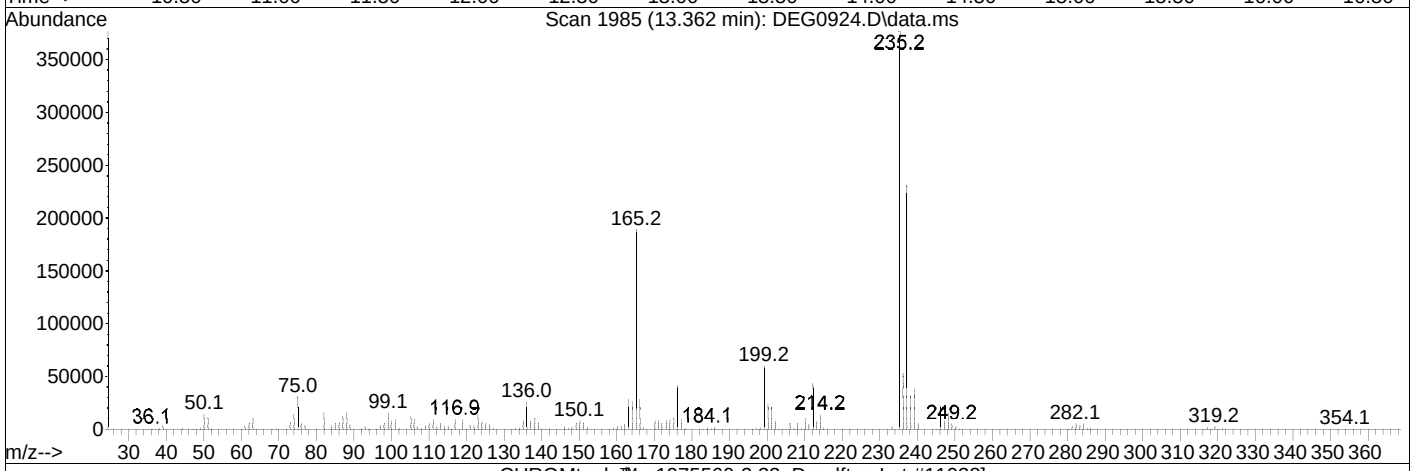
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 9:39 am
Operator : SV107:smz
Sample : wg1975560-2,32,,Degdftpp Lot #11038
Misc : wg1975560,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 24 09:58:01 2024
Quant Method : I:\8270\SV107\240924RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Sep 22 11:30:20 2024
Response via : Initial Calibration





CHROMtools™ [wg1975560-2,32,,Degdftpp Lot #11038]

(6) DDT (T)

13.362min (-0.042) 53.21

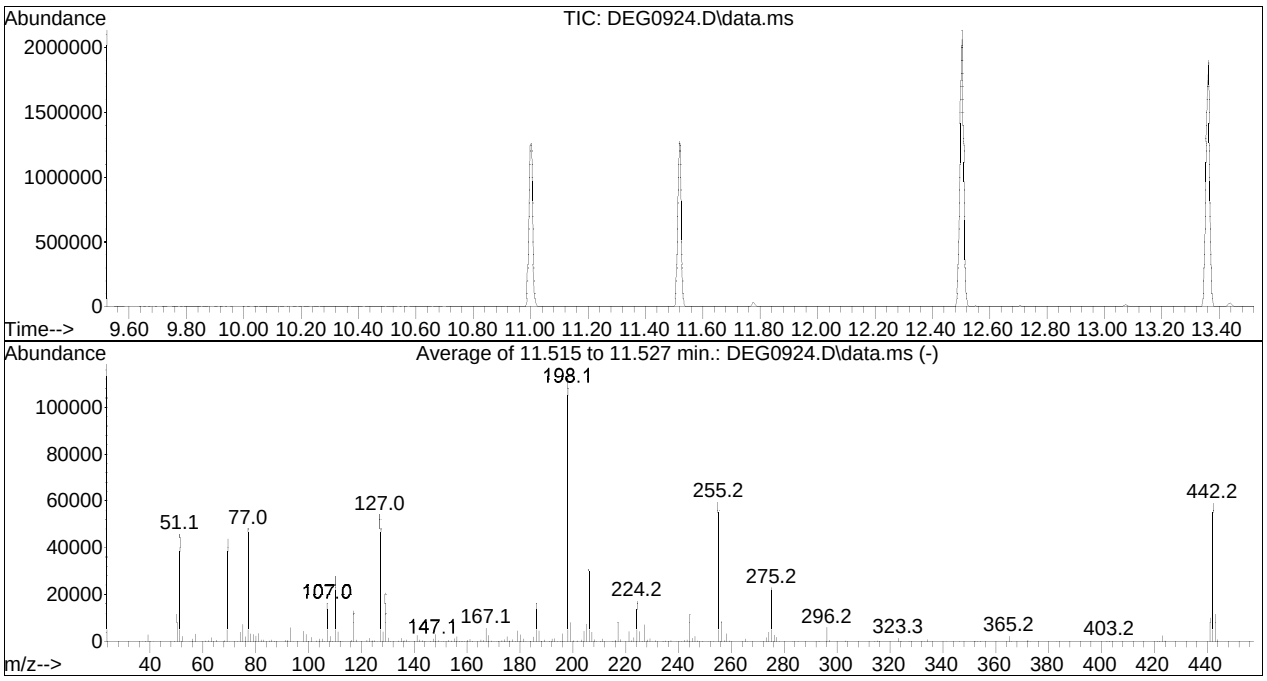
response 324380

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	62.68
165.10	55.40	53.84
199.10	16.20	16.34

Data Path : I:\8270\SV107\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 9:39 am
Operator : SV107:gmr
Sample : WG1975560-1,32,,Degdftpp Lot #11038
Misc : WG1975560,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240924RVT\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 24 11:06:43 2024



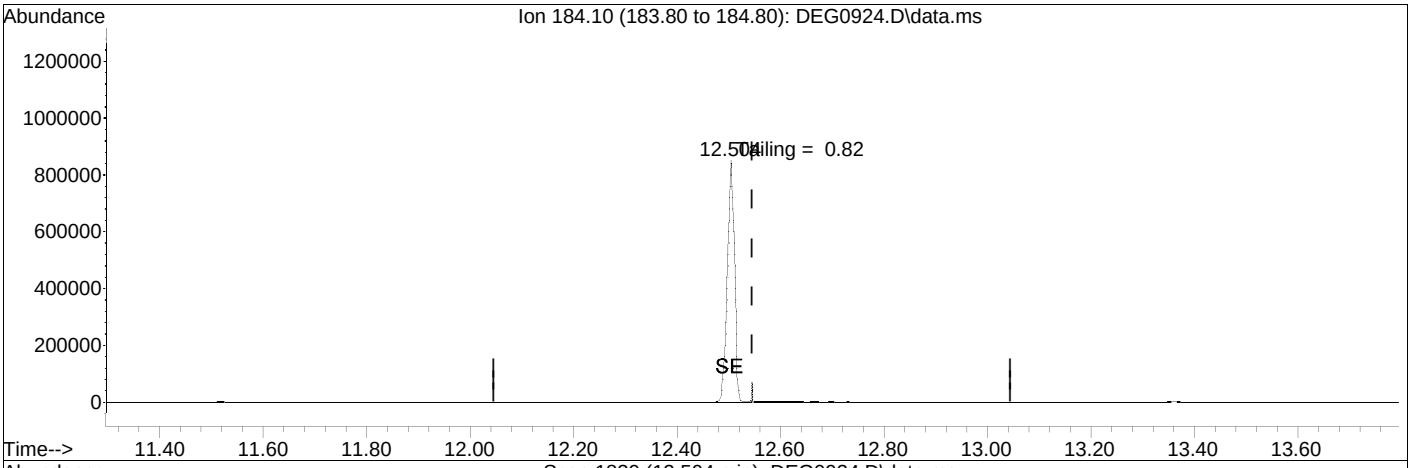
Spectrum Information: Average of 11.515 to 11.527 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.6	45709	PASS
68	69	0.00	2	1.5	655	PASS
69	69	100	100	100.0	43417	PASS
70	69	0.00	2	0.5	227	PASS
127	198	10	80	48.1	54139	PASS
197	198	0.00	2	0.1	111	PASS
198	198	100	100	100.0	112653	PASS
199	198	5	9	7.0	7923	PASS
275	198	10	60	20.2	22701	PASS
365	198	1	100	2.1	2382	PASS
441	442	0.01	24	17.0	10020	PASS
442	198	50	100	52.4	58981	PASS
443	442	15	24	19.5	11478	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 9:39 am
Operator : SV107:smz
Sample : wg1975560-6,32,,Degdftpp Lot #11038
Misc : wg1975560,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 24 09:58:01 2024
Quant Method : I:\8270\SV107\240924RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Sep 22 11:30:20 2024
Response via : Initial Calibration



CHROMtools™ [wg1975560-6,32,,Degdftpp Lot #11038]

(3) Benzidine (T)

12.504min (-0.041) 76.36

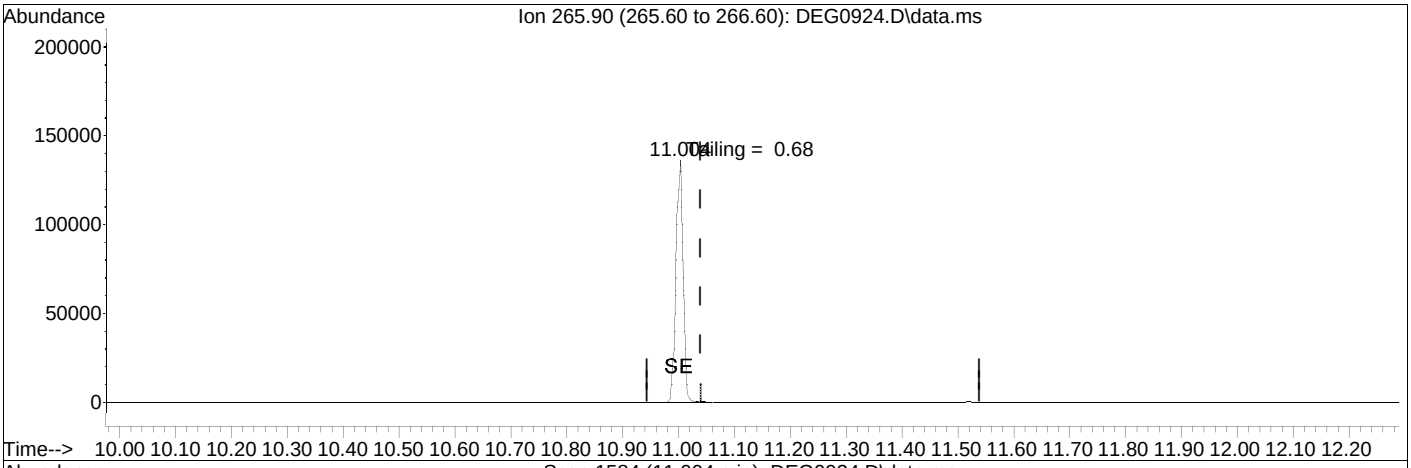
response 777373

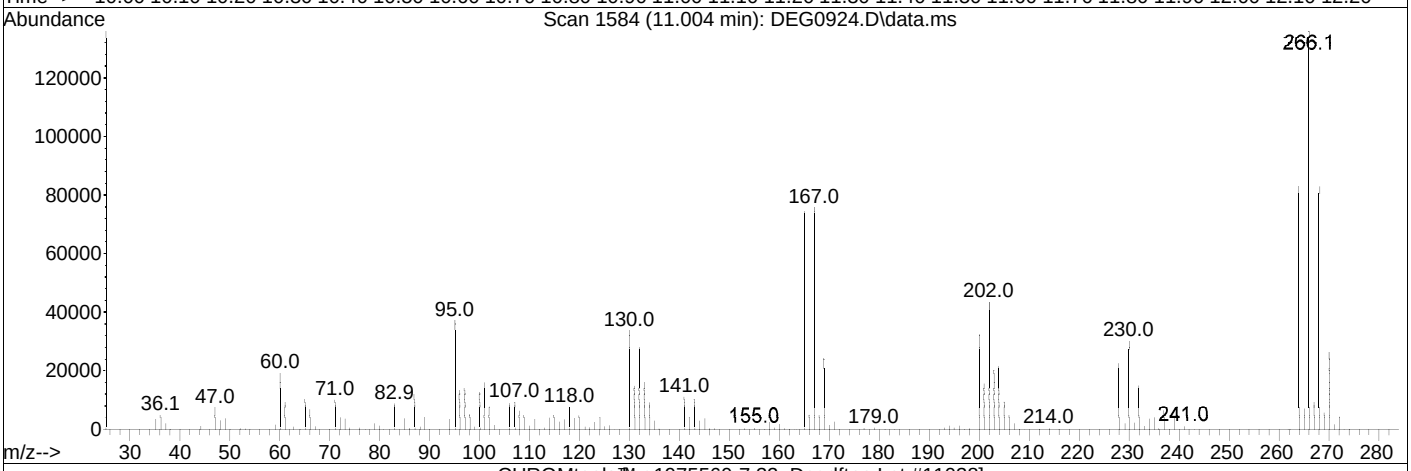
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240924RVT\
Data File : DEG0924.D
Acq On : 24 Sep 2024 9:39 am
Operator : SV107:smz
Sample : wg1975560-7,32,,Degdftpp Lot #11038
Misc : wg1975560,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 24 09:58:01 2024
Quant Method : I:\8270\SV107\240924RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Sep 22 11:30:20 2024
Response via : Initial Calibration





CHROMtools™ [wg1975560-7,32,,Degdftpp Lot #11038]

(1) Pentachlorophenol (T)

11.004min (-0.035) 54.79

response 115088

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Duplicate Retention Times

(2) DFTPP 198.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:21		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-3	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	70	0
n-Nitrosodimethylamine	0.851	0.764	-	10.2	20	69	0
Pyridine	1.392	1.226	-	11.9	20	67	0
2-Fluorophenol	1.156	1.158	-	-0.2	20	75	0
Aniline	2.049	1.864	-	9	20	70	0
2-Chlorophenol	1.288	1.149	-	10.8	20	70	0
Phenol-d6	1.583	1.443	-	8.8	20	72	0
Phenol	1.642	1.573	-	4.2	20	74	0
Bis(2-chloroethyl)ether	1.348	1.095	-	18.8	20	63	0
1,3-Dichlorobenzene	1.546	1.389	-	10.2	20	70	0
1,4-Dichlorobenzene	1.565	1.386	-	11.4	20	70	0
1,2-Dichlorobenzene	1.522	1.354	-	11	20	70	0
Benzyl alcohol	1.267	1.182	-	6.7	20	72	0
Bis(2-chloroisopropyl)ethe	2.166	0.635	-	70.7*	20	23	0
2-Methylphenol	1.183	1.123	-	5.1	20	73	0
Hexachloroethane	0.623	0.517	-	17	20	67	0
n-Nitrosodi-n-propylamine	1.057	0.919	-	13.1	20	65	0
3-Methylphenol/4-Methylphe	1.279	1.262	-	1.3	20	77	0
Nitrobenzene-d5	1.619	1.435	-	11.4	20	69	0
Nitrobenzene	1.643	1.421	-	13.5	20	68	0
Isophorone	2.76	2.435	-	11.8	20	66	0
2-Nitrophenol	0.692	0.681	-	1.6	20	74	0
2,4-Dimethylphenol	1.301	1.187	-	8.8	20	70	0
Bis(2-chloroethoxy)methane	1.778	1.416	-	20.4*	20	62	0
2,4-Dichlorophenol	1.233	1.147	-	7	20	70	0
1,2,4-Trichlorobenzene	1.51	1.345	-	10.9	20	72	0
IS1_Naphthalene-d8	1	1	-	0	20	68	0
Naphthalene	1.147	1	-	12.8	20	68	0
Benzoic Acid	5	3.806	-	23.9*	20	54	0
4-Chloroaniline	0.169	0.135	-	20.1*	20	58	0
Hexachlorobutadiene	0.303	0.292	-	3.6	20	76	0
p-Chloro-m-cresol	0.343	0.339	-	1.2	20	72	0
2-Methylnaphthalene	0.764	0.708	-	7.3	20	70	0
1-Methylnaphthalene	0.29	0.28	-	3.4	20	72	0
Hexachlorocyclopentadiene	0.336	0.343	-	-2.1	20	75	0
2,4,6-Trichlorophenol	0.301	0.307	-	-2	20	74	0
2,4,5-Trichlorophenol	0.322	0.32	-	0.6	20	70	0
2-Fluorobiphenyl	1.027	0.894	-	13	20	66	0
2-Chloronaphthalene	0.813	0.765	-	5.9	20	71	0
2-Nitroaniline	0.245	0.242	-	1.2	20	71	0
1,4-Dinitrobenzene	0.129	0.137	-	-6.2	20	76	0
1,3-Dinitrobenzene	0.147	0.145	-	1.4	20	69	0
Dimethyl phthalate	0.989	0.937	-	5.3	20	69	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:21		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-3	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.244	1.15	-	7.6	20	67	0
2,6-Dinitrotoluene	0.213	0.221	-	-3.8	20	73	0
1,2-Dinitrobenzene	0.091	0.095	-	-4.4	20	73	0
IS1_Acenaphthene-d10	1	1	-	0	20	72	0
3-Nitroaniline	0.319	0.341	-	-6.9	20	77	0
Acenaphthene	1.153	1.006	-	12.7	20	69	0
2,4-Dinitrophenol	0.213	0.225	-	-5.6	20	75	0
Dibenzofuran	1.936	1.647	-	14.9	20	68	0
2,4-Dinitrotoluene	0.475	0.45	-	5.3	20	70	0
4-Nitrophenol	0.323	0.284	-	12.1	20	67	0
2,3,5,6-Tetrachlorophenol	0.452	0.464	-	-2.7	20	76	0
2,3,4,6-Tetrachlorophenol	0.435	0.438	-	-0.7	20	73	0
Diethyl phthalate	1.529	1.322	-	13.5	20	68	0
Fluorene	1.523	1.337	-	12.2	20	68	0
4-Chlorophenyl phenyl ethe	0.801	0.722	-	9.9	20	74	0
4-Nitroaniline	0.333	0.312	-	6.3	20	72	0
4,6-Dinitro-o-cresol	0.266	0.305	-	-14.7	20	78	0
NDPA/DPA	1.263	1.158	-	8.3	20	70	0
Azobenzene	1.446	1.241	-	14.2	20	66	0
2,4,6-Tribromophenol	0.249	0.268	-	-7.6	20	79	0
4-Bromophenyl phenyl ether	0.5	0.48	-	4	20	76	0
Hexachlorobenzene	0.569	0.559	-	1.8	20	79	0
Pentachlorophenol	0.361	0.377	-	-4.4	20	73	0
IS1_Phenanthrene-d10	1	1	-	0	20	73	0
Phenanthrene	1.117	0.957	-	14.3	20	71	0
Anthracene	1.111	0.957	-	13.9	20	69	0
Carbazole	1.018	0.887	-	12.9	20	70	0
Di-n-butylphthalate	1.195	1.027	-	14.1	20	67	0
Fluoranthene	1.366	1.217	-	10.9	20	72	0
Benzidine	0.741	0.774	-	-4.5	20	77	0
Pyrene	1.44	1.279	-	11.2	20	72	0
4-Terphenyl-d14	1.076	0.997	-	7.3	20	76	0
Butyl benzyl phthalate	0.55	0.5	-	9.1	20	73	0
IS1_Chrysene-d12	1	1	-	0	20	84	0
Benzo(a)anthracene	1.478	1.311	-	11.3	20	84	0
3,3'-Dichlorobenzidine	0.489	0.528	-	-8	20	90	0
Chrysene	1.429	1.228	-	14.1	20	82	0
Bis(2-ethylhexyl)phthalate	0.817	0.648	-	20.7*	20	68	0
Di-n-octylphthalate	1.352	1.178	-	12.9	20	76	0
Benzo(b)fluoranthene	1.43	1.45	-	-1.4	20	98	0
Benzo(k)fluoranthene	1.356	1.243	-	8.3	20	82	0
Benzo(a)pyrene	1.242	1.256	-	-1.1	20	91	0
IS1_Perylene-d12	1	1	-	0	20	88	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:21		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-3	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.082	1.092	-	-0.9	20	92	0
Dibenzo(a,h)anthracene	1.042	1.074	-	-3.1	20	94	0
Benzo(ghi)perylene	0.964	1.036	-	-7.5	20	97	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 07:45		
Lab File ID	: AP90924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-4	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	114	0
Benzaldehyde	1.187	1.105	-	6.9	20	107	0
Acetophenone	2.158	1.974	-	8.5	20	105	0
m-Toluidine	1.957	1.737	-	11.2	20	102	0
2-Chloroaniline	1.709	1.556	-	9	20	105	0
IS2_Naphthalene-d8	1	1	-	0	20	114	0
a-Terpineol	0.4	0.219	-	45.3*	20	63	0
3-Chloroaniline	0.201	0.158	-	21.4*	20	91	0
2,6-Dichlorophenol	0.362	0.334	-	7.7	20	102	0
1-chloro-2-nitrobenzene	0.18	0.163	-	9.4	20	100	0
Caprolactam	0.21	0.103	-	51*	20	52	0
1,2,4,5-Tetrachlorobenzene	0.548	0.501	-	8.6	20	108	0
Biphenyl	1.084	0.937	-	13.6	20	101	0
IS2_Acenaphthene-d10	1	1	-	0	20	126	0
Dichloran	0.247	0.233	-	5.7	20	112	0
Pentachloronitrobenzene	0.27	0.281	-	-4.1	20	122	0
IS2_Phenanthrene-d10	1	1	-	0	20	112	0
Diphenamid	0.561	0.52	-	7.3	20	102	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV106	**Calibration Date**	: 09/24/24 08:09		
Lab File ID	: ADP0924	**Init. Calib. Date(s)**	: 06/24/24	06/25/24	
Sample No	: WG1975455-5	**Init. Calib. Times**	: 16:56	04:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	76	0
1,4-Dioxane	0.584	0.518	-	11.3	20	80	0
n-Decane	1.662	0.929	-	44.1*	20	46	0
IS3_Acenaphthene-d10	1	1	-	0	20	80	0
Atrazine	0.509	0.503	-	1.2	20	87	0
IS3_Phenanthrene-d10	1	1	-	0	20	74	0
n-Octadecane	0.498	0.259	-	48*	20	41	0
Parathion	0.124	0.13	-	-4.8	20	84	0
3,3'-Dimethylbenzidine	0.791	1.018	-	-28.7*	20	94	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:04		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	137	0
n-Nitrosodimethylamine	0.71	0.741	-	-4.4	20	143	0
Pyridine	1.086	1.257	-	-15.7	20	145	0
2-Fluorophenol	1.08	1.203	-	-11.4	20	152	0
Aniline	1.765	1.782	-	-1	20	149	0
2-Chlorophenol	1.294	1.255	-	3	20	140	0
Phenol-d6	1.413	1.389	-	1.7	20	143	0
Phenol	1.566	1.509	-	3.6	20	143	0
Bis(2-chloroethyl)ether	1.247	1.194	-	4.3	20	147	0
1,3-Dichlorobenzene	1.587	1.459	-	8.1	20	136	0
1,4-Dichlorobenzene	1.599	1.502	-	6.1	20	139	0
1,2-Dichlorobenzene	1.562	1.409	-	9.8	20	135	0
Benzyl alcohol	1.01	1.025	-	-1.5	20	153	0
Bis(2-chloroisopropyl)ethe	1.617	2.095	-	-29.6*	20	197	0
2-Methylphenol	1.126	1.101	-	2.2	20	151	0
Hexachloroethane	0.563	0.575	-	-2.1	20	145	0
n-Nitrosodi-n-propylamine	0.862	0.859	-	0.3	20	152	0
3-Methylphenol/4-Methylphe	1.241	1.197	-	3.5	20	151	0
Nitrobenzene-d5	1.368	1.342	-	1.9	20	148	0
Nitrobenzene	1.312	1.345	-	-2.5	20	153	0
Isophorone	2.344	2.291	-	2.3	20	148	0
2-Nitrophenol	0.667	0.631	-	5.4	20	146	0
2,4-Dimethylphenol	1.081	1.209	-	-11.8	20	250	0
Bis(2-chloroethoxy)methane	1.585	1.506	-	5	20	150	0
2,4-Dichlorophenol	1.18	1.122	-	4.9	20	143	0
1,2,4-Trichlorobenzene	1.405	1.226	-	12.7	20	135	0
IS1_Naphthalene-d8	1	1	-	0	20	133	0
Naphthalene	1.132	1.055	-	6.8	20	141	0
Benzoic Acid	5	4.769	-	4.6	20	141	0
4-Chloroaniline	0.126	0.139	-	-10.3	20	152	0
Hexachlorobutadiene	0.224	0.21	-	6.3	20	136	0
p-Chloro-m-cresol	0.283	0.315	-	-11.3	20	163	0
2-Methylnaphthalene	0.737	0.711	-	3.5	20	144	0
1-Methylnaphthalene	0.238	0.246	-	-3.4	20	150	0
Hexachlorocyclopentadiene	0.212	0.237	-	-11.8	20	159	0
2,4,6-Trichlorophenol	0.234	0.23	-	1.7	20	139	0
2,4,5-Trichlorophenol	0.249	0.245	-	1.6	20	138	0
2-Fluorobiphenyl	0.9	0.786	-	12.7	20	136	0
2-Chloronaphthalene	0.763	0.7	-	8.3	20	143	0
2-Nitroaniline	0.204	0.2	-	2	20	147	0
1,4-Dinitrobenzene	0.11	0.098	-	10.9	20	146	0
1,3-Dinitrobenzene	0.129	0.114	-	11.6	20	144	0
Dimethyl phthalate	0.863	0.765	-	11.4	20	138	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:04		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.031	-	8.9	20	139	0
2,6-Dinitrotoluene	0.169	0.164	-	3	20	142	0
1,2-Dinitrobenzene	0.077	0.072	-	6.5	20	141	0
IS1_Acenaphthene-d10	1	1	-	0	20	134	0
3-Nitroaniline	0.32	0.316	-	1.3	20	137	0
Acenaphthene	1.138	1.076	-	5.4	20	142	0
2,4-Dinitrophenol	5	5.182	-	-3.6	20	193	0
Dibenzofuran	1.879	1.751	-	6.8	20	143	0
2,4-Dinitrotoluene	0.408	0.389	-	4.7	20	140	0
4-Nitrophenol	0.253	0.273	-	-7.9	20	153	0
2,3,5,6-Tetrachlorophenol	0.341	0.342	-	-0.3	20	136	0
2,3,4,6-Tetrachlorophenol	0.325	0.325	-	0	20	131	0
Diethyl phthalate	1.327	1.325	-	0.2	20	154	0
Fluorene	1.404	1.337	-	4.8	20	143	0
4-Chlorophenyl phenyl ethe	0.713	0.634	-	11.1	20	135	0
4-Nitroaniline	0.32	0.303	-	5.3	20	135	0
4,6-Dinitro-o-cresol	5	4.537	-	9.3	20	164	0
NDPA/DPA	1.166	1.1	-	5.7	20	140	0
Azobenzene	1.226	1.279	-	-4.3	20	152	0
2,4,6-Tribromophenol	0.187	0.129	-	31*	20	102	0
4-Bromophenyl phenyl ether	0.385	0.327	-	15.1	20	129	0
Hexachlorobenzene	0.425	0.316	-	25.6*	20	112	0
Pentachlorophenol	5	3.831	-	23.4*	20	123	0
IS1_Phenanthrene-d10	1	1	-	0	20	130	0
Phenanthrene	1.151	1.104	-	4.1	20	141	0
Anthracene	1.089	1.094	-	-0.5	20	143	0
Carbazole	0.994	0.996	-	-0.2	20	141	0
Di-n-butylphthalate	1.094	1.154	-	-5.5	20	158	0
Fluoranthene	1.261	1.208	-	4.2	20	138	0
Benzidine	5	4.939	-	1.2	20	178	0
Pyrene	1.372	1.295	-	5.6	20	137	0
4-Terphenyl-d14	0.946	0.785	-	17	20	123	0
Butyl benzyl phthalate	5	4.239	-	15.2	20	160	0
IS1_Chrysene-d12	1	1	-	0	20	124	0
Benzo(a)anthracene	1.453	1.373	-	5.5	20	127	0
3,3'-Dichlorobenzidine	5	4.109	-	17.8	20	125	0
Chrysene	1.403	1.302	-	7.2	20	125	0
Bis(2-ethylhexyl)phthalate	5	5.273	-	-5.5	20	154	0
Di-n-octylphthalate	5	4.848	-	3	20	164	0
Benzo(b)fluoranthene	1.251	1.213	-	3	20	125	0
Benzo(k)fluoranthene	1.251	1.242	-	0.7	20	120	0
Benzo(a)pyrene	1.101	1.134	-	-3	20	126	0
IS1_Perylene-d12	1	1	-	0	20	114	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:04		
Lab File ID	: ABN0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	1.134	-	-3.3	20	121	0
Dibenzo(a,h)anthracene	1.056	1.053	-	0.3	20	115	0
Benzo(ghi)perylene	0.977	1.051	-	-7.6	20	117	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:29		
Lab File ID	: AP90924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	118	0
Benzaldehyde	1.145	1.037	-	9.4	20	112	0
Acetophenone	2.032	1.813	-	10.8	20	111	0
m-Toluidine	1.86	1.735	-	6.7	20	108	0
2-Chloroaniline	1.773	1.502	-	15.3	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	116	0
a-Terpineol	0.297	0.313	-	-5.4	20	119	0
3-Chloroaniline	0.163	0.16	-	1.8	20	112	0
2,6-Dichlorophenol	0.319	0.285	-	10.7	20	100	0
1-chloro-2-nitrobenzene	0.155	0.144	-	7.1	20	109	0
Caprolactam	5	4.813	-	3.7	20	125	0
1,2,4,5-Tetrachlorobenzene	0.444	0.354	-	20.3*	20	97	0
Biphenyl	1.036	0.832	-	19.7	20	99	0
IS2_Acenaphthene-d10	1	1	-	0	20	109	0
Dichloran	5	3.593	-	28.1*	20	93	0
Pentachloronitrobenzene	5	3.877	-	22.5*	20	96	0
IS2_Phenanthrene-d10	1	1	-	0	20	96	0
Diphenamid	0.507	0.45	-	11.2	20	89	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/24/24 10:54		
Lab File ID	: ADP0924	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1975560-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	112	0
1,4-Dioxane	0.459	0.5	-	-8.9	20	140	0
n-Decane	1.388	1.708	-	-23.1*	20	152	0
IS3_Acenaphthene-d10	1	1	-	0	20	106	0
Atrazine	0.315	0.327	-	-3.8	20	110	0
IS3_Phenanthrene-d10	1	1	-	0	20	98	0
n-Octadecane	0.381	0.551	-	-44.6*	20	144	0
Parathion	5	5.986	-	-19.7	20	142	0
3,3'-Dimethylbenzidine	5	4.588	-	8.2	20	117	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 08:59		
Lab File ID	: ABN0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	149	0
n-Nitrosodimethylamine	0.71	0.731	-	-3	20	153	0
Pyridine	1.086	1.216	-	-12	20	152	0
2-Fluorophenol	1.08	1.175	-	-8.8	20	162	0
Aniline	1.765	1.767	-	-0.1	20	161	0
2-Chlorophenol	1.294	1.25	-	3.4	20	151	0
Phenol-d6	1.413	1.408	-	0.4	20	158	0
Phenol	1.566	1.524	-	2.7	20	157	0
Bis(2-chloroethyl)ether	1.247	1.198	-	3.9	20	160	0
1,3-Dichlorobenzene	1.587	1.464	-	7.8	20	148	0
1,4-Dichlorobenzene	1.599	1.478	-	7.6	20	149	0
1,2-Dichlorobenzene	1.562	1.41	-	9.7	20	148	0
Benzyl alcohol	1.01	1.046	-	-3.6	20	170	0
Bis(2-chloroisopropyl)ethe	1.617	2.057	-	-27.2*	20	211	0
2-Methylphenol	1.126	1.114	-	1.1	20	166	0
Hexachloroethane	0.563	0.592	-	-5.2	20	163	0
n-Nitrosodi-n-propylamine	0.862	0.855	-	0.8	20	165	0
3-Methylphenol/4-Methylphe	1.241	1.225	-	1.3	20	168	0
Nitrobenzene-d5	1.368	1.327	-	3	20	160	0
Nitrobenzene	1.312	1.36	-	-3.7	20	169	0
Isophorone	2.344	2.329	-	0.6	20	164	0
2-Nitrophenol	0.667	0.652	-	2.2	20	164	0
2,4-Dimethylphenol	1.081	1.217	-	-12.6	20	274	0
Bis(2-chloroethoxy)methane	1.585	1.514	-	4.5	20	165	0
2,4-Dichlorophenol	1.18	1.133	-	4	20	158	0
1,2,4-Trichlorobenzene	1.405	1.259	-	10.4	20	151	0
IS1_Naphthalene-d8	1	1	-	0	20	146	0
Naphthalene	1.132	1.025	-	9.5	20	150	0
Benzoic Acid	5	5.241	-	-4.8	20	177	0
4-Chloroaniline	0.126	0.143	-	-13.5	20	171	0
Hexachlorobutadiene	0.224	0.222	-	0.9	20	158	0
p-Chloro-m-cresol	0.283	0.314	-	-11	20	178	0
2-Methylnaphthalene	0.737	0.694	-	5.8	20	154	0
1-Methylnaphthalene	0.238	0.245	-	-2.9	20	165	0
Hexachlorocyclopentadiene	0.212	0.233	-	-9.9	20	172	0
2,4,6-Trichlorophenol	0.234	0.238	-	-1.7	20	159	0
2,4,5-Trichlorophenol	0.249	0.238	-	4.4	20	147	0
2-Fluorobiphenyl	0.9	0.786	-	12.7	20	150	0
2-Chloronaphthalene	0.763	0.691	-	9.4	20	155	0
2-Nitroaniline	0.204	0.207	-	-1.5	20	167	0
1,4-Dinitrobenzene	0.11	0.106	-	3.6	20	174	0
1,3-Dinitrobenzene	0.129	0.12	-	7	20	167	0
Dimethyl phthalate	0.863	0.813	-	5.8	20	161	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 08:59		
Lab File ID	: ABN0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.132	1.079	-	4.7	20	160	0
2,6-Dinitrotoluene	0.169	0.171	-	-1.2	20	163	0
1,2-Dinitrobenzene	0.077	0.078	-	-1.3	20	167	0
IS1_Acenaphthene-d10	1	1	-	0	20	152	0
3-Nitroaniline	0.32	0.333	-	-4.1	20	162	0
Acenaphthene	1.138	1.082	-	4.9	20	161	0
2,4-Dinitrophenol	5	5.309	-	-6.2	20	224	0
Dibenzofuran	1.879	1.733	-	7.8	20	160	0
2,4-Dinitrotoluene	0.408	0.41	-	-0.5	20	167	0
4-Nitrophenol	0.253	0.283	-	-11.9	20	179	0
2,3,5,6-Tetrachlorophenol	0.341	0.363	-	-6.5	20	163	0
2,3,4,6-Tetrachlorophenol	0.325	0.343	-	-5.5	20	156	0
Diethyl phthalate	1.327	1.388	-	-4.6	20	182	0
Fluorene	1.404	1.386	-	1.3	20	167	0
4-Chlorophenyl phenyl ethe	0.713	0.659	-	7.6	20	159	0
4-Nitroaniline	0.32	0.317	-	0.9	20	160	0
4,6-Dinitro-o-cresol	5	5.057	-	-1.1	20	208	0
NDPA/DPA	1.166	1.132	-	2.9	20	162	0
Azobenzene	1.226	1.354	-	-10.4	20	182	0
2,4,6-Tribromophenol	0.187	0.138	-	26.2*	20	123	0
4-Bromophenyl phenyl ether	0.385	0.339	-	11.9	20	151	0
Hexachlorobenzene	0.425	0.337	-	20.7*	20	134	0
Pentachlorophenol	5	4.226	-	15.5	20	157	0
IS1_Phenanthrene-d10	1	1	-	0	20	153	0
Phenanthrene	1.151	1.102	-	4.3	20	165	0
Anthracene	1.089	1.122	-	-3	20	173	0
Carbazole	0.994	1.033	-	-3.9	20	171	0
Di-n-butylphthalate	1.094	1.254	-	-14.6	20	203	0
Fluoranthene	1.261	1.307	-	-3.6	20	175	0
Benzidine	5	5.337	-	-6.7	20	229	0
Pyrene	1.372	1.381	-	-0.7	20	171	0
4-Terphenyl-d14	0.946	0.853	-	9.8	20	158	0
Butyl benzyl phthalate	5	5.035	-	-0.7	20	228	0
IS1_Chrysene-d12	1	1	-	0	20	169	0
Benzo(a)anthracene	1.453	1.365	-	6.1	20	173	0
3,3'-Dichlorobenzidine	5	4.274	-	14.5	20	178	0
Chrysene	1.403	1.272	-	9.3	20	167	0
Bis(2-ethylhexyl)phthalate	5	5.537	-	-10.7	20	221	0
Di-n-octylphthalate	5	5.306	-	-6.1	20	248	0
Benzo(b)fluoranthene	1.251	1.303	-	-4.2	20	184	0
Benzo(k)fluoranthene	1.251	1.107	-	11.5	20	147	0
Benzo(a)pyrene	1.101	1.106	-	-0.5	20	168	0
IS1_Perylene-d12	1	1	-	0	20	156	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 08:59		
Lab File ID	: ABN0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-3	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.098	1.072	-	2.4	20	157	0
Dibenzo(a,h)anthracene	1.056	1.025	-	2.9	20	154	0
Benzo(ghi)perylene	0.977	1.009	-	-3.3	20	154	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 09:24		
Lab File ID	: AP90925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-4	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	136	0
Benzaldehyde	1.145	1.006	-	12.1	20	124	0
Acetophenone	2.032	1.727	-	15	20	121	0
m-Toluidine	1.86	1.664	-	10.5	20	119	0
2-Chloroaniline	1.773	1.489	-	16	20	115	0
IS2_Naphthalene-d8	1	1	-	0	20	133	0
a-Terpineol	0.297	0.301	-	-1.3	20	131	0
3-Chloroaniline	0.163	0.156	-	4.3	20	126	0
2,6-Dichlorophenol	0.319	0.286	-	10.3	20	114	0
1-chloro-2-nitrobenzene	0.155	0.14	-	9.7	20	121	0
Caprolactam	5	4.638	-	7.2	20	137	0
1,2,4,5-Tetrachlorobenzene	0.444	0.349	-	21.4*	20	109	0
Biphenyl	1.036	0.808	-	22*	20	110	0
IS2_Acenaphthene-d10	1	1	-	0	20	128	0
Dichloran	5	3.615	-	27.7*	20	109	0
Pentachloronitrobenzene	5	4.144	-	17.1	20	122	0
IS2_Phenanthrene-d10	1	1	-	0	20	119	0
Diphenamid	0.507	0.443	-	12.6	20	109	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV107	**Calibration Date**	: 09/25/24 09:49		
Lab File ID	: ADP0925	**Init. Calib. Date(s)**	: 07/30/24	07/31/24	
Sample No	: WG1976103-5	**Init. Calib. Times**	: 19:25	07:43	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	120	0
1,4-Dioxane	0.459	0.487	-	-6.1	20	146	0
n-Decane	1.388	1.674	-	-20.6*	20	159	0
IS3_Acenaphthene-d10	1	1	-	0	20	120	0
Atrazine	0.315	0.356	-	-13	20	136	0
IS3_Phenanthrene-d10	1	1	-	0	20	113	0
n-Octadecane	0.381	0.545	-	-43*	20	165	0
Parathion	5	6.56	-	-31.2*	20	183	0
3,3'-Dimethylbenzidine	5	4.999	-	0	20	152	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240925RVT\
Data File : ABN0925.D
Acq On : 25 Sep 2024 8:59 am
Operator : SV107:jg
Sample : WG1976103-3,32,,ABN 10908 HNY0924A
Misc : WG1976103,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 25 10:17:53 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:18:29 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	149	0.00
2	t	n-Nitrosodimethylamine		0.710	0.731	-3.0	153	0.00
3	t	Pyridine		1.086	1.216	-12.0	152	0.00
4	S	2-Fluorophenol		1.080	1.175	-8.8	162	0.00
5	T	Aniline		1.765	1.767	-0.1	161	0.00
6	t	2-Chlorophenol		1.294	1.250	3.4	151	0.00
7	S	Phenol-d6		1.413	1.408	0.4	158	0.00
8	T	Phenol		1.566	1.524	2.7	157	0.00
9	T	Bis(2-chloroethyl)ether		1.247	1.198	3.9	160	0.00
10	T	1,3-Dichlorobenzene		1.587	1.464	7.8	148	0.00
11	T	1,4-Dichlorobenzene		1.599	1.478	7.6	149	0.00
12	T	1,2-Dichlorobenzene		1.562	1.410	9.7	148	0.00
13	t	Benzyl alcohol		1.010	1.046	-3.6	170	0.00
14	T	Bis(2-chloroisopropyl)ether		1.617	2.057	-27.2#	211#	0.00
15	T	2-Methylphenol		1.126	1.114	1.1	166	0.00
16	T	Hexachloroethane		0.563	0.592	-5.2	163	0.00
17	T	n-Nitrosodi-n-propylamine		0.862	0.855	0.8	165	0.00
18	T	3-Methylphenol/4-Methylphen		1.241	1.225	1.3	168	0.00
19	S	Nitrobenzene-d5		1.368	1.327	3.0	160	0.00
20	T	Nitrobenzene		1.312	1.360	-3.7	169	0.00
21	T	Isophorone		2.344	2.329	0.6	164	0.00
22	T	2-Nitrophenol		0.667	0.652	2.2	164	0.00
23	T	2,4-Dimethylphenol		1.081	1.217	-12.6	274#	0.00
24	T	Bis(2-chloroethoxy)methane		1.585	1.514	4.5	165	0.00
25	T	2,4-Dichlorophenol		1.180	1.133	4.0	158	0.00
26	T	1,2,4-Trichlorobenzene		1.405	1.259	10.4	151	0.00
35	I	IS1_Naphthalene-d8		1.000	1.000	0.0	146	0.00
36	T	Naphthalene		1.132	1.025	9.5	150	0.00
37	T	Benzoic Acid	*	5.000	5.241	-4.8	177	0.00
38	T	4-Chloroaniline		0.126	0.143	-13.5	171	0.00
39	T	Hexachlorobutadiene		0.224	0.222	0.9	158	0.00
40	T	p-Chloro-m-cresol		0.283	0.314	-11.0	178	0.00
41	T	2-Methylnaphthalene		0.737	0.694	5.8	154	0.00
42	T	1-Methylnaphthalene		0.238	0.245	-2.9	165	0.00
43	T	Hexachlorocyclopentadiene		0.212	0.233	-9.9	172	0.00
44	T	2,4,6-Trichlorophenol		0.234	0.238	-1.7	159	0.00
45	T	2,4,5-Trichlorophenol		0.249	0.238	4.4	147	0.00
46	S	2-Fluorobiphenyl		0.900	0.786	12.7	150	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240925RVT\
Data File : ABN0925.D
Acq On : 25 Sep 2024 8:59 am
Operator : SV107:jg
Sample : WG1976103-3,32,,ABN 10908 HNY0924A
Misc : WG1976103,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 25 10:17:53 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:18:29 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
47	T	2-Chloronaphthalene		0.763	0.691	9.4	155	0.00
48	T	2-Nitroaniline		0.204	0.207	-1.5	167	0.00
49	T	1,4-Dinitrobenzene		0.110	0.106	3.6	174	0.00
50	T	1,3-Dinitrobenzene		0.129	0.120	7.0	167	0.00
51	T	Dimethyl phthalate		0.863	0.813	5.8	161	0.00
52	T	Acenaphthylene		1.132	1.079	4.7	160	0.00
53	T	2,6-Dinitrotoluene		0.169	0.171	-1.2	163	0.00
54	T	1,2-Dinitrobenzene		0.077	0.078	-1.3	167	0.00
63	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	152	0.00
64	T	3-Nitroaniline		0.320	0.333	-4.1	162	0.00
65	T	Acenaphthene		1.138	1.082	4.9	161	0.00
66	T	2,4-Dinitrophenol	*	5.000	5.309	-6.2	224	0.00
67	T	Dibenzofuran		1.879	1.733	7.8	160	0.00
68	T	2,4-Dinitrotoluene		0.408	0.410	-0.5	167	0.00
69	T	4-Nitrophenol		0.253	0.283	-11.9	179	0.00
70	T	2,3,5,6-Tetrachlorophenol		0.341	0.363	-6.5	163	0.00
71	T	2,3,4,6-Tetrachlorophenol		0.325	0.343	-5.5	156	0.00
72	T	Diethyl phthalate		1.327	1.388	-4.6	182	0.00
73	T	Fluorene		1.404	1.386	1.3	167	0.00
74	T	4-Chlorophenyl phenyl ether		0.713	0.659	7.6	159	0.00
75	T	4-Nitroaniline		0.320	0.317	0.9	160	0.00
76	T	4,6-Dinitro-o-cresol	*	5.000	5.057	-1.1	208	0.00
77	T	NDPA/DPA		1.166	1.132	2.9	162	0.00
78	T	Azobenzene		1.226	1.354	-10.4	182	0.00
79	S	2,4,6-Tribromophenol		0.187	0.138	26.2#	123	0.00
80	T	4-Bromophenyl phenyl ether		0.385	0.339	11.9	151	0.00
81	T	Hexachlorobenzene		0.425	0.337	20.7#	134	0.00
82	T	Pentachlorophenol	*	5.000	4.226	15.5	157	0.00
88	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	153	0.00
89	T	Phenanthrene		1.151	1.102	4.3	165	0.00
90	T	Anthracene		1.089	1.122	-3.0	173	0.00
91	T	Carbazole		0.994	1.033	-3.9	171	0.00
92	T	Di-n-butylphthalate		1.094	1.254	-14.6	203#	0.00
93	T	Fluoranthene		1.261	1.307	-3.6	175	0.00
94	T	Benzidine	*	5.000	5.337	-6.7	229	0.00
95	T	Pyrene		1.372	1.381	-0.7	171	0.00
96	S	4-Terphenyl-d14		0.946	0.853	9.8	158	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240925RVT\
Data File : ABN0925.D
Acq On : 25 Sep 2024 8:59 am
Operator : SV107:jg
Sample : WG1976103-3,32,,ABN 10908 HNY0924A
Misc : WG1976103,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 25 10:17:53 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:18:29 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
97	T	Butyl benzyl phthalate	*	5.000	5.035	-0.7	228	0.00
104	I	IS1_Chrysene-d12		1.000	1.000	0.0	169	0.00
105	T	Benzo(a)anthracene		1.453	1.365	6.1	173	0.00
106	T	3,3'-Dichlorobenzidine	*	5.000	4.274	14.5	178	0.00
107	T	Chrysene		1.403	1.272	9.3	167	0.00
108	T	Bis(2-ethylhexyl)phthalate	*	5.000	5.537	-10.7	221	0.00
109	T	Di-n-octylphthalate	*	5.000	5.306	-6.1	248	0.00
110	T	Benzo(b)fluoranthene		1.251	1.303	-4.2	184	0.00
111	T	Benzo(k)fluoranthene		1.251	1.107	11.5	147	0.00
112	T	Benzo(a)pyrene		1.101	1.106	-0.5	168	0.00
113	I	IS1_Perylene-d12		1.000	1.000	0.0	156	0.00
114	T	Indeno(1,2,3-cd)pyrene		1.098	1.072	2.4	157	0.00
115	T	Dibenzo(a,h)anthracene		1.056	1.025	2.9	154	0.00
116	T	Benzo(ghi)perylene		0.977	1.009	-3.3	154	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : ABN0925.D
Acq On : 25 Sep 2024 8:59 am
Operator : SV107:jg
Sample : WG1976103-3,32,,ABN 10908 HNY0924A
Misc : WG1976103,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 25 10:17:53 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:18:29 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.539	152	21684	4.000	ug/ml	0.00
35) IS1_Naphthalene-d8	7.957	136	77844	4.000	ug/ml	0.00
63) IS1_Acenaphthene-d10	9.716	164	45627	4.000	ug/ml	0.00
88) IS1_Phenanthrene-d10	11.157	188	84370	4.000	ug/ml	0.00
104) IS1_Chrysene-d12	13.804	240	82807	4.000	ug/ml	0.00
113) IS1_Perylene-d12	15.280	264	83291	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.716	112	31845	5.440	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 272.00%#			
7) Phenol-d6	6.169	99	38155	4.981	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 249.05%#			
19) Nitrobenzene-d5	7.186	82	35969	4.852	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 485.20%#			
46) 2-Fluorobiphenyl	9.074	172	76529	4.370	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 437.00%#			
79) 2,4,6-Tribromophenol	10.486	330	7892	3.694	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 184.70%#			
96) 4-Terphenyl-d14	12.739	244	89920	4.508	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 450.80%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.281	74	19806	5.144	ug/ml#	67
3) Pyridine	2.316	79	32957	5.596	ug/ml#	72
5) Aniline	6.139	93	47895	5.006	ug/ml	99
6) 2-Chlorophenol	6.281	128	33879	4.829	ug/ml	97
8) Phenol	6.186	94	41311	4.865	ug/ml	97
9) Bis(2-chloroethyl)ether	6.263	93	32482	4.804	ug/ml#	78
10) 1,3-Dichlorobenzene	6.469	146	39684	4.611	ug/ml	99
11) 1,4-Dichlorobenzene	6.563	146	40073	4.622	ug/ml	99
12) 1,2-Dichlorobenzene	6.739	146	38229	4.516	ug/ml	99
13) Benzyl alcohol	6.739	79	28356	5.181	ug/ml	99
14) Bis(2-chloroisopropyl)...	6.916	45	55761	6.360	ug/ml#	62
15) 2-Methylphenol	6.910	108	30185	4.943	ug/ml	100
16) Hexachloroethane	7.128	117	16051	5.261	ug/ml#	77
17) n-Nitrosodi-n-propylamine	7.063	70	23167	4.958	ug/ml	94
18) 3-Methylphenol/4-Methy...	7.092	108	33213	4.937	ug/ml	100
20) Nitrobenzene	7.210	77	36866	5.184	ug/ml	98
21) Isophorone	7.486	82	63139	4.969	ug/ml	96
22) 2-Nitrophenol	7.563	139	17672	4.891	ug/ml#	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : ABN0925.D
Acq On : 25 Sep 2024 8:59 am
Operator : SV107:jg
Sample : WG1976103-3,32,,ABN 10908 HNY0924A
Misc : WG1976103,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 25 10:17:53 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:18:29 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.657	107	32987	5.627	ug/ml	94
24) Bis(2-chloroethoxy)met...	7.751	93	41037	4.776	ug/ml	99
25) 2,4-Dichlorophenol	7.827	162	30707	4.798	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.910	180	34117	4.479	ug/ml	98
36) Naphthalene	7.975	128	99702	4.526	ug/ml	99
37) Benzoic Acid	7.739	105	19940	5.241	ug/ml	99
38) 4-Chloroaniline	8.057	65	13880	5.643	ug/ml	96
39) Hexachlorobutadiene	8.139	225	21637	4.968	ug/ml	98
40) p-Chloro-m-cresol	8.575	107	30600	5.559	ug/ml	96
41) 2-Methylnaphthalene	8.692	142	67556	4.709	ug/ml	93
42) 1-Methylnaphthalene	8.786	115	23854	5.146	ug/ml	92
43) Hexachlorocyclopentadiene	8.869	237	22709	5.513	ug/ml	99
44) 2,4,6-Trichlorophenol	8.986	196	23184	5.090	ug/ml	99
45) 2,4,5-Trichlorophenol	9.016	196	23143	4.782	ug/ml	99
47) 2-Chloronaphthalene	9.169	162	67260	4.530	ug/ml	99
48) 2-Nitroaniline	9.280	138	20151	5.073	ug/ml	93
49) 1,4-Dinitrobenzene	9.416	168	10352	4.842	ug/ml	83
50) 1,3-Dinitrobenzene	9.492	168	11665	4.646	ug/ml#	1
51) Dimethyl phthalate	9.486	163	79068	4.710	ug/ml#	98
52) Acenaphthylene	9.574	152	105003	4.764	ug/ml	99
53) 2,6-Dinitrotoluene	9.527	165	16678	5.076	ug/ml#	85
54) 1,2-Dinitrobenzene	9.569	168	7579	5.077	ug/ml#	1
64) 3-Nitroaniline	9.686	138	18990	5.202	ug/ml	98
65) Acenaphthene	9.745	154	61733	4.756	ug/ml	90
66) 2,4-Dinitrophenol	9.786	184	11286	5.309	ug/ml	92
67) Dibenzofuran	9.916	168	98813	4.610	ug/ml	97
68) 2,4-Dinitrotoluene	9.916	165	23379	5.019	ug/ml	95
69) 4-Nitrophenol	9.869	65	16118	5.584	ug/ml#	86
70) 2,3,5,6-Tetrachlorophenol	10.010	232	20708	5.323	ug/ml	97
71) 2,3,4,6-Tetrachlorophenol	10.051	232	19589	5.279	ug/ml	98
72) Diethyl phthalate	10.180	149	79178	5.231	ug/ml	99
73) Fluorene	10.251	166	79042	4.935	ug/ml	98
74) 4-Chlorophenyl phenyl ...	10.269	204	37600	4.624	ug/ml	97
75) 4-Nitroaniline	10.274	138	18059	4.945	ug/ml#	86
76) 4,6-Dinitro-o-cresol	10.310	198	14482	5.057	ug/ml#	67
77) NDPA/DPA	10.386	169	64554	4.855	ug/ml	96
78) Azobenzene	10.421	77	77236	5.521	ug/ml	97
80) 4-Bromophenyl phenyl e...	10.739	248	19335	4.404	ug/ml	98
81) Hexachlorobenzene	10.792	284	19244	3.972	ug/ml#	94
82) Pentachlorophenol	10.986	266	13766	4.226	ug/ml	97
89) Phenanthrene	11.174	178	116213	4.786	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : ABN0925.D
Acq On : 25 Sep 2024 8:59 am
Operator : SV107:jg
Sample : WG1976103-3,32,,ABN 10908 HNY0924A
Misc : WG1976103,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 25 10:17:53 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:18:29 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90)	Anthracene	11.227	178	118334	5.152	ug/ml	98
91)	Carbazole	11.392	167	108903	5.196	ug/ml	98
92)	Di-n-butylphthalate	11.774	149	132256	5.731	ug/ml	99
93)	Fluoranthene	12.333	202	137804	5.181	ug/ml#	93
94)	Benzidine	12.480	184	84221	5.337	ug/ml#	95
95)	Pyrene	12.551	202	145640	5.033	ug/ml	99
97)	Butyl benzyl phthalate	13.262	149	60516	5.035	ug/ml	87
105)	Benzo(a)anthracene	13.792	228	141332	4.697	ug/ml	99
106)	3,3'-Dichlorobenzidine	13.792	252	46012	4.274	ug/ml	98
107)	Chrysene	13.833	228	131660	4.532	ug/ml	98
108)	Bis(2-ethylhexyl)phtha...	13.904	149	90387	5.537	ug/ml#	94
109)	Di-n-octylphthalate	14.580	149	153028	5.306	ug/ml#	73
110)	Benzo(b)fluoranthene	14.903	252	134884	5.206	ug/ml#	95
111)	Benzo(k)fluoranthene	14.933	252	114628	4.425	ug/ml	97
112)	Benzo(a)pyrene	15.221	252	114456	5.023	ug/ml	95
114)	Indeno(1,2,3-cd)pyrene	16.280	276	111608M6	4.882	ug/mL	
115)	Dibenzo(a,h)anthracene	16.309	278	106709	4.855	ug/ml	96
116)	Benzo(ghi)perylene	16.550	276	105002	5.159	ug/ml	94

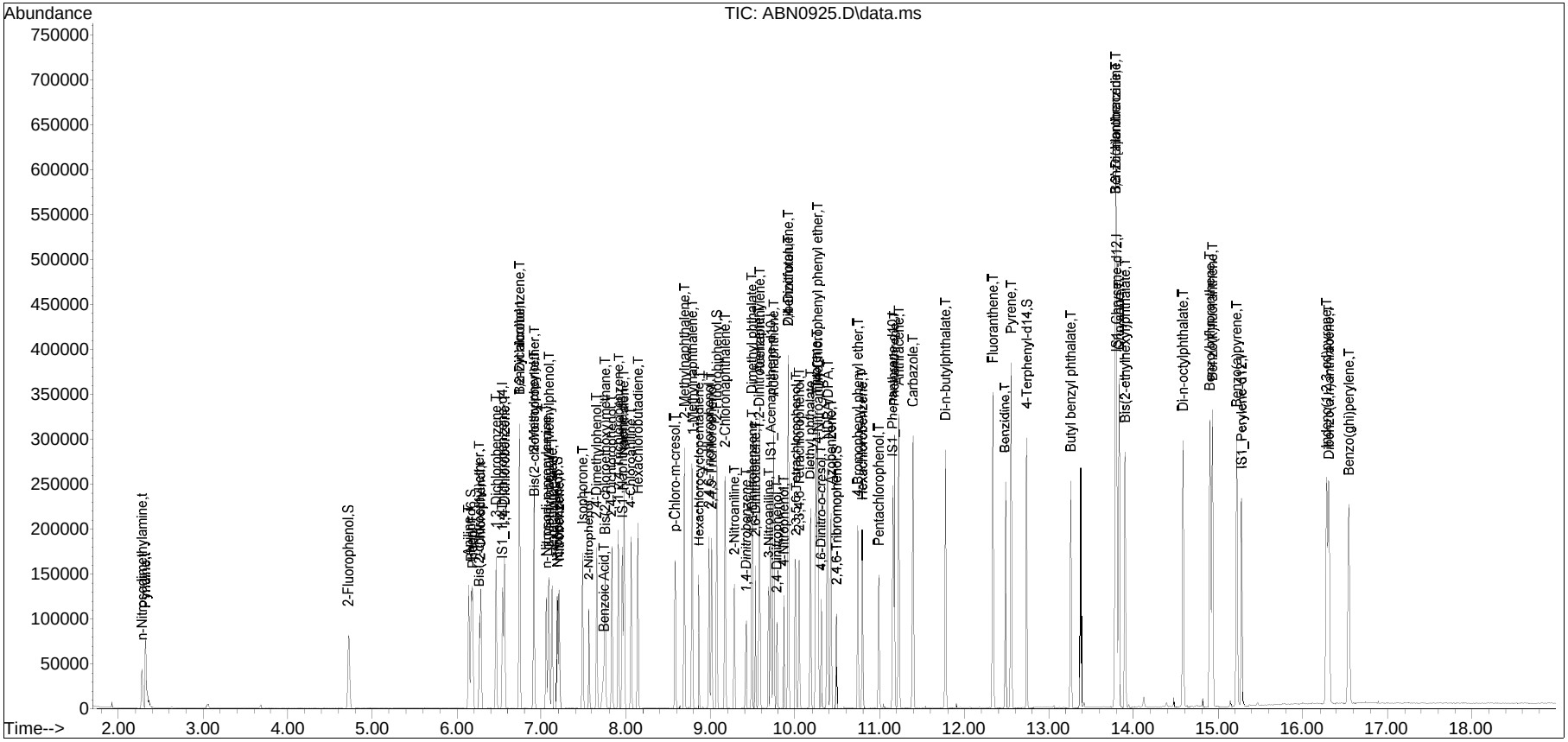
(#) = qualifier out of range (m) = manual integration (+) = signals summed

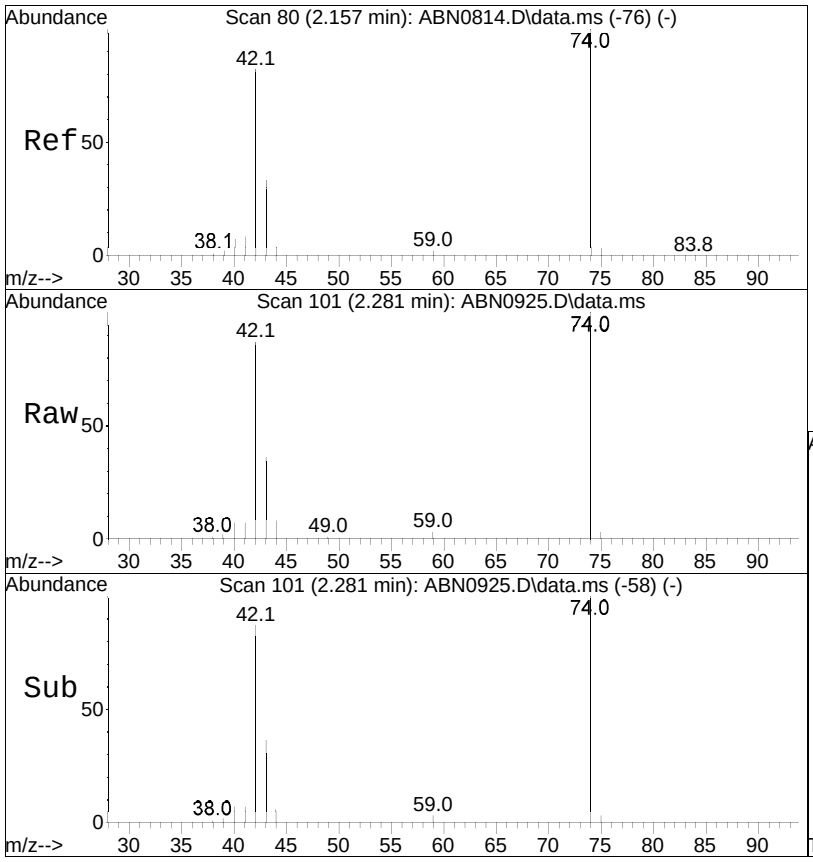
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : ABN0925.D
Acq On : 25 Sep 2024 8:59 am
Operator : SV107:jg
Sample : WG1976103-3,32,,ABN 10908 HNY0924A
Misc : WG1976103,,ical21360
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Sep 25 10:17:53 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:18:29 2024
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

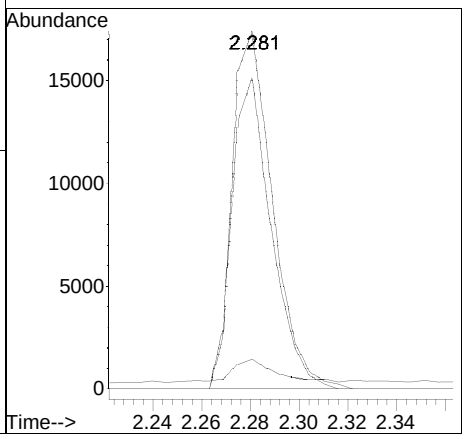


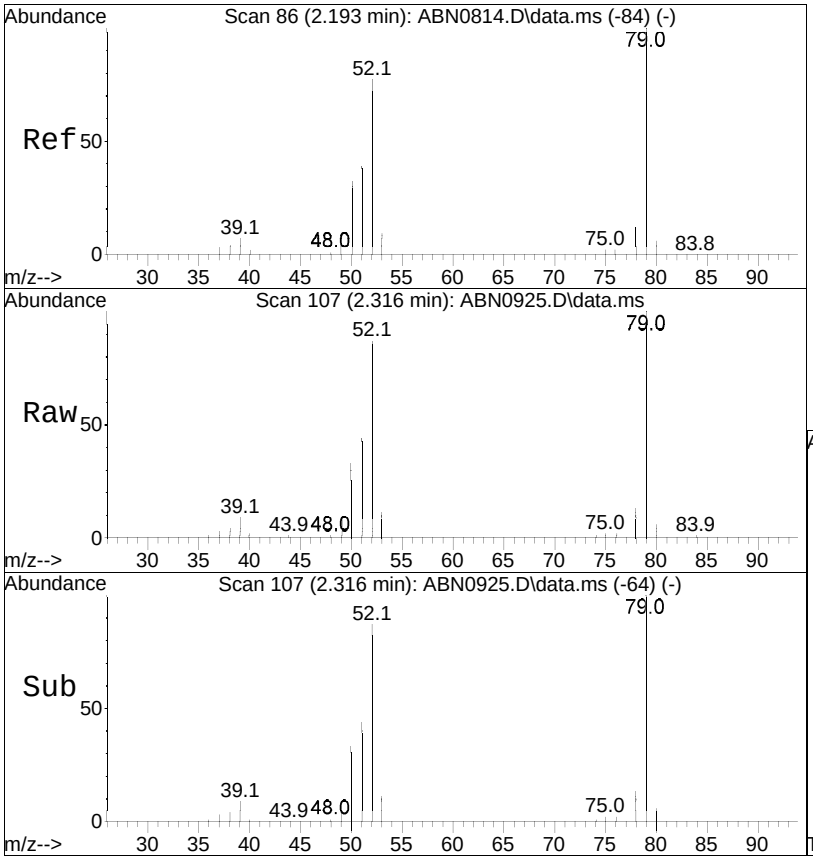


#2
n-Nitrosodimethylamine
Concen: 5.14 ug/ml
RT: 2.281 min Scan# 101
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 74 Resp: 19806

Ion	Ratio	Lower	Upper
74	100		
42	85.4	100.0	150.0#
44	8.4	6.7	10.1

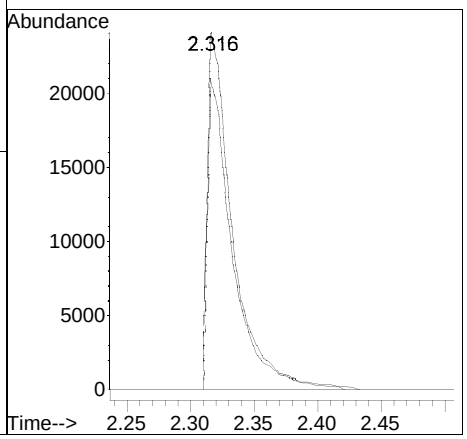


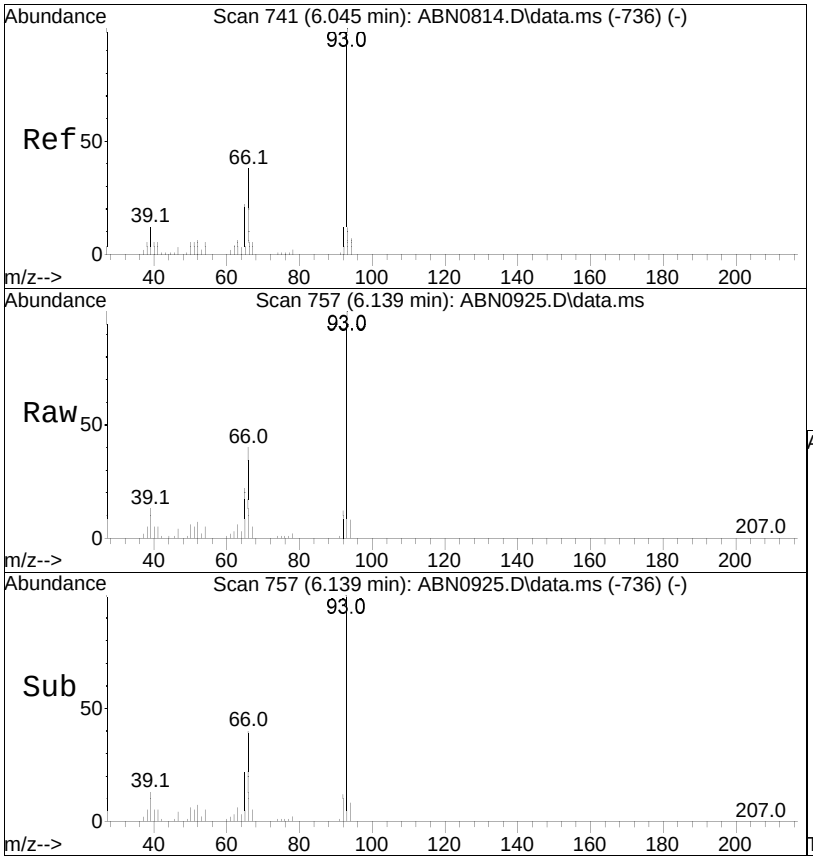


#3
Pyridine
Concen: 5.60 ug/ml
RT: 2.316 min Scan# 107
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 79 Resp: 32957

Ion	Ratio	Lower	Upper
79	100		
52	86.3	93.1	139.7#

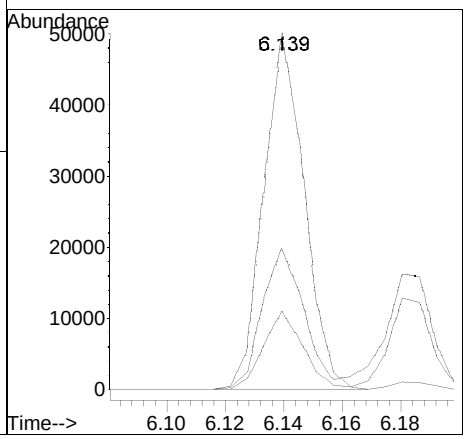


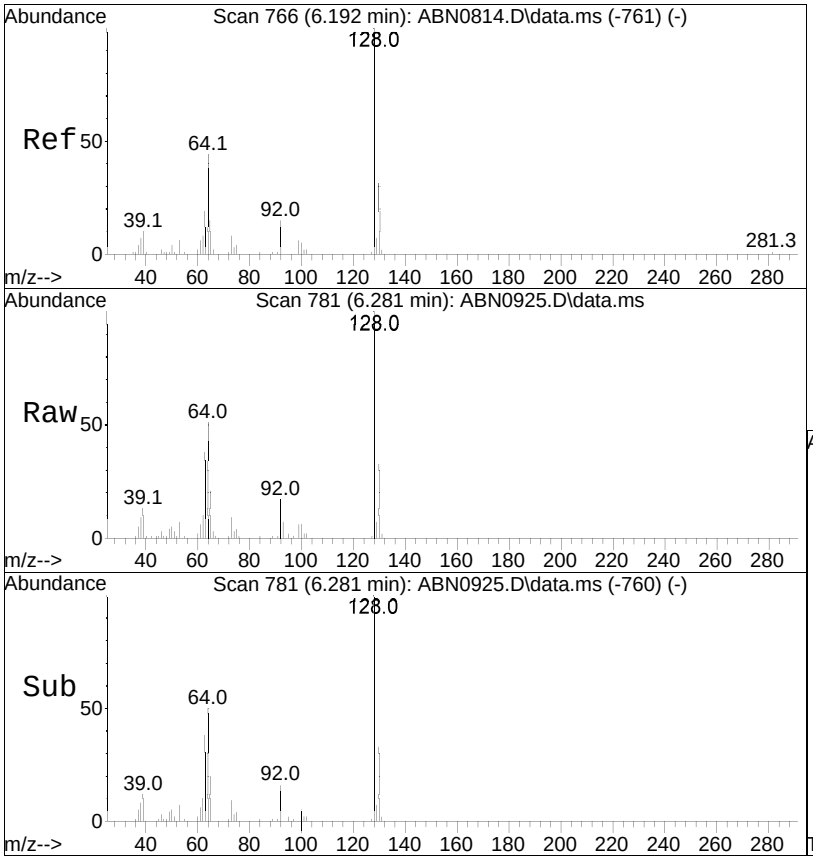


#5
Aniline
Concen: 5.01 ug/ml
RT: 6.139 min Scan# 757
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 93 Resp: 47895

Ion	Ratio	Lower	Upper
93	100		
66	41.2	32.6	49.0
65	21.9	17.6	26.4

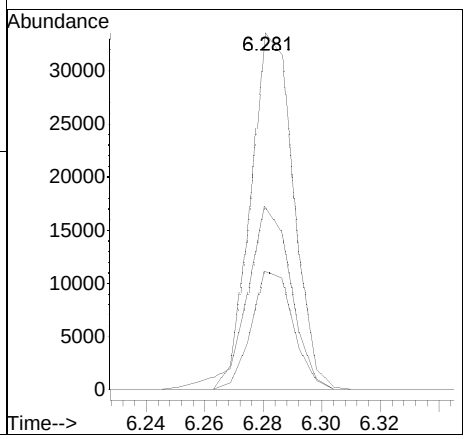


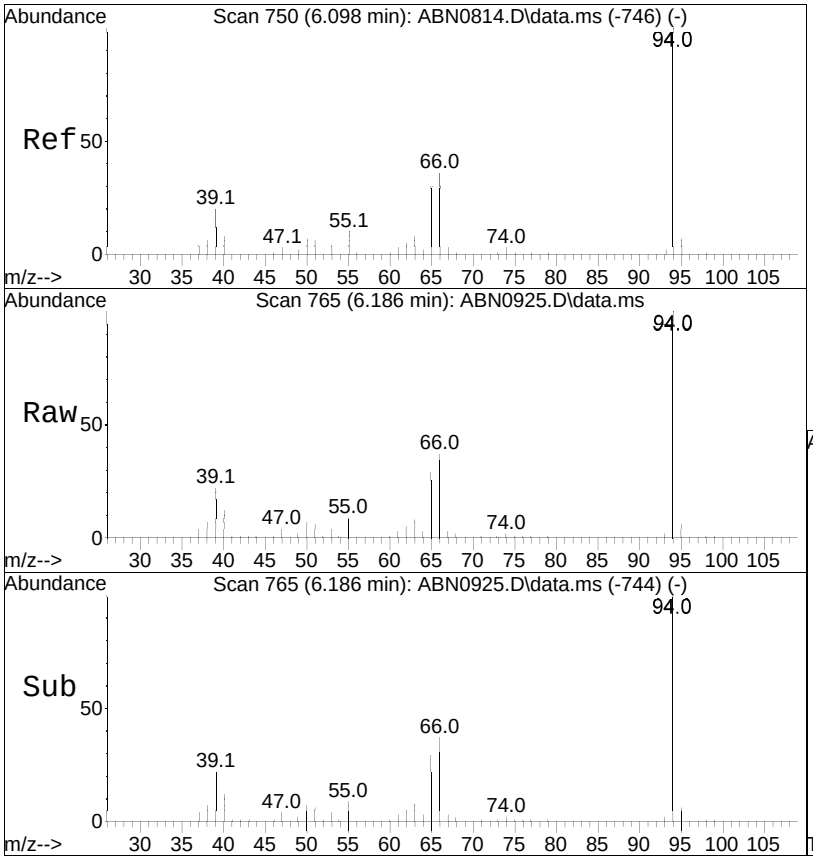


#6
2-Chlorophenol
Concen: 4.83 ug/ml
RT: 6.281 min Scan# 781
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:128 Resp: 33879

Ion	Ratio	Lower	Upper
128	100		
64	53.3	45.1	67.7
130	32.7	26.2	39.4

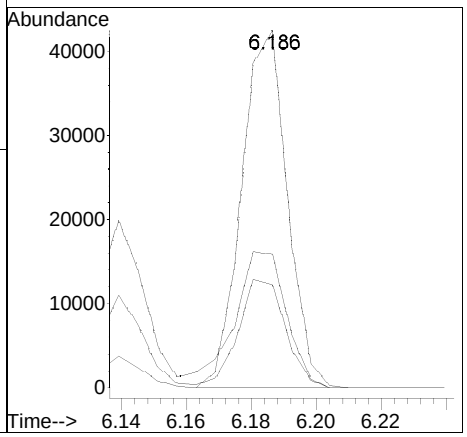


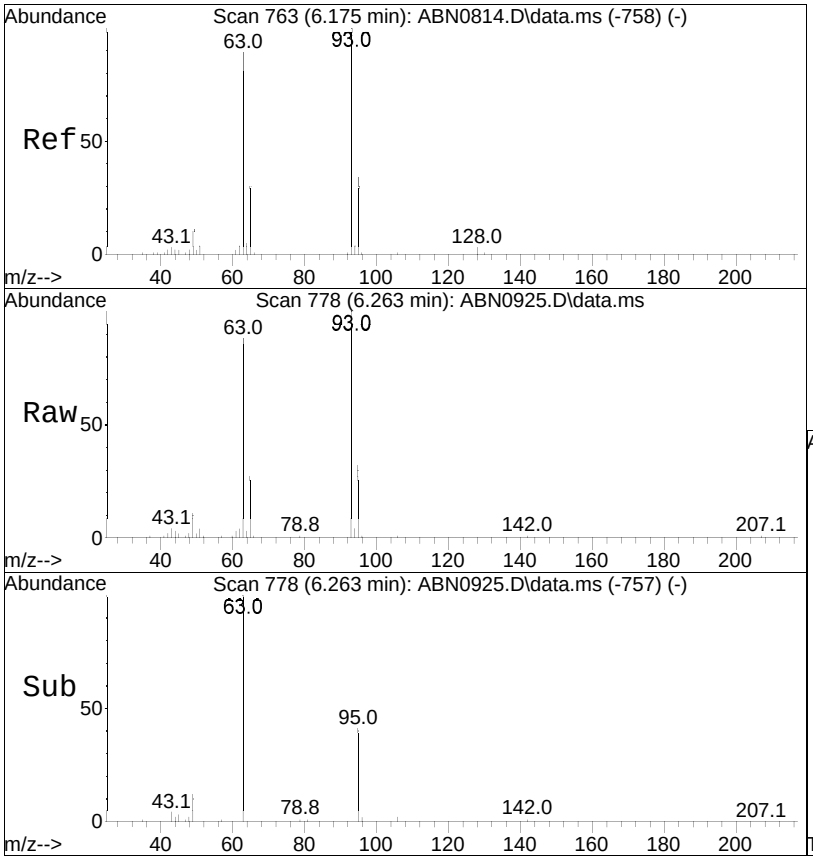


#8
Phenol
Concen: 4.87 ug/ml
RT: 6.186 min Scan# 765
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 94 Resp: 41311

Ion	Ratio	Lower	Upper
94	100		
65	31.6	26.0	39.0
66	44.4	33.8	50.8

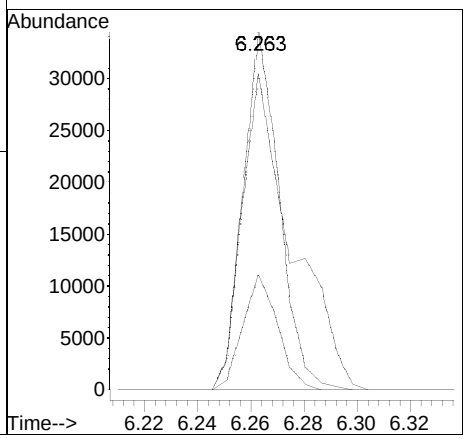


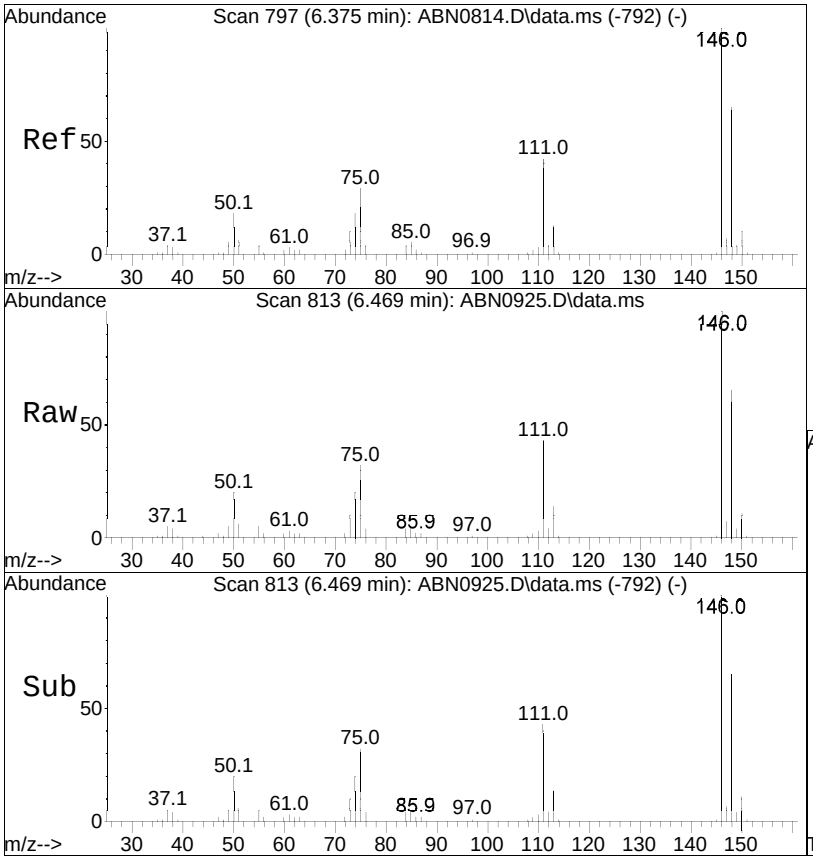


#9
Bis(2-chloroethyl)ether
Concen: 4.80 ug/ml
RT: 6.263 min Scan# 778
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 93 Resp: 32482

Ion	Ratio	Lower	Upper
93	100		
63	121.0	74.6	111.8#
95	30.9	25.9	38.9

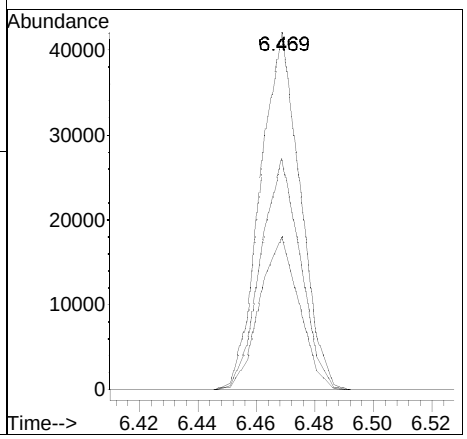


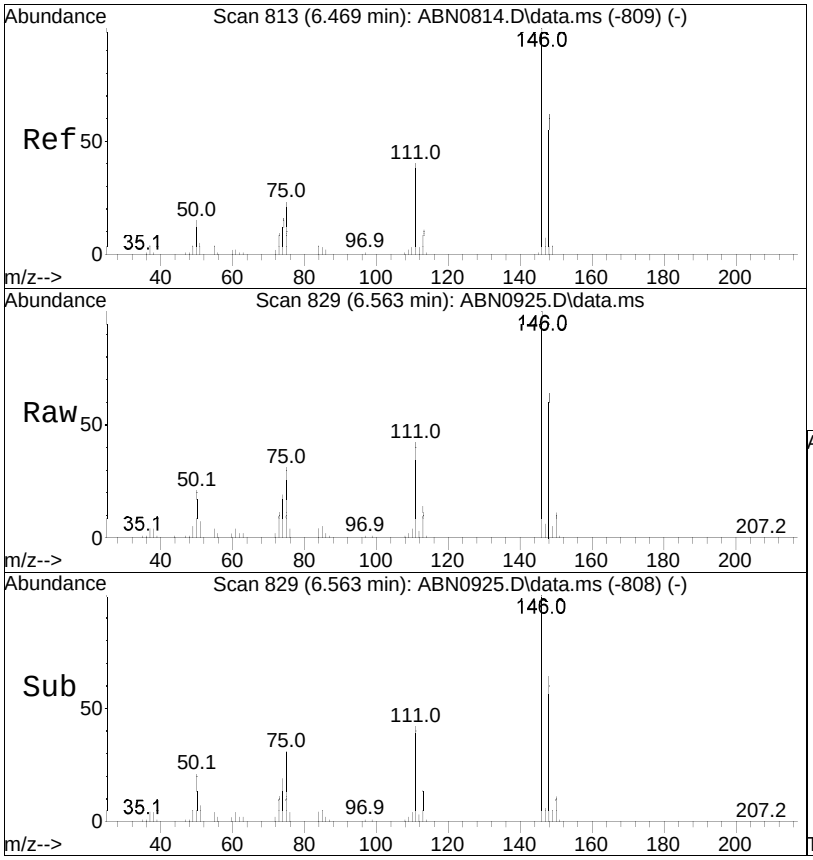


#10
1,3-Dichlorobenzene
Concen: 4.61 ug/ml
RT: 6.469 min Scan# 813
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:146 Resp: 39684

Ion	Ratio	Lower	Upper
146	100		
111	42.6	34.3	51.5
148	64.3	50.8	76.2

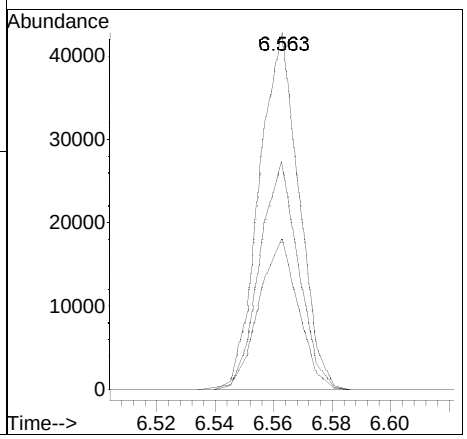


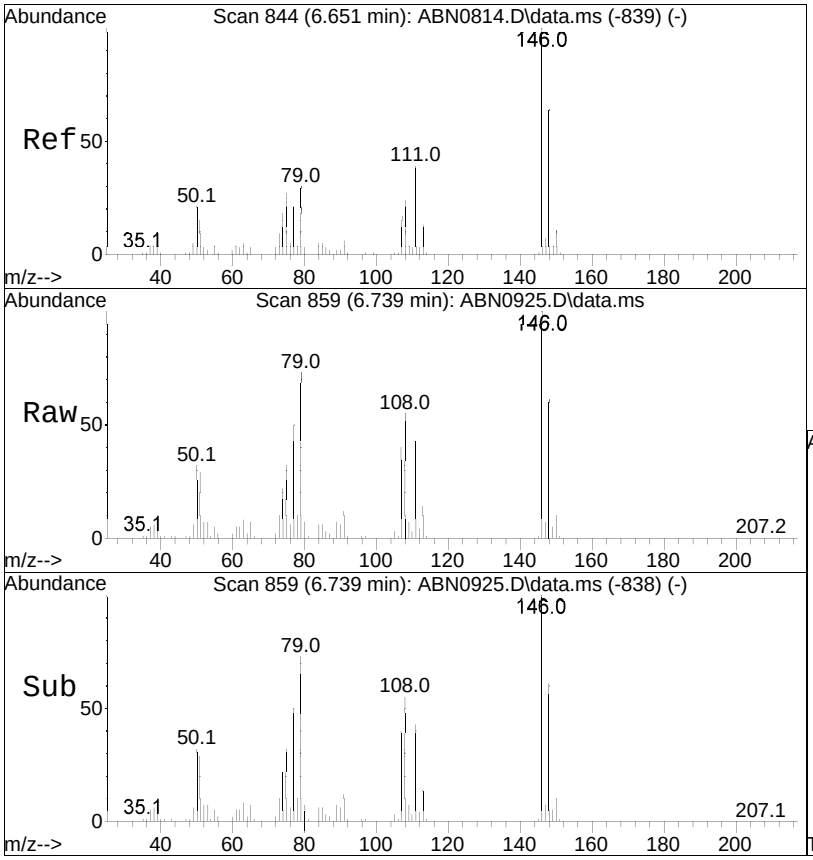


#11
1,4-Dichlorobenzene
Concen: 4.62 ug/ml
RT: 6.563 min Scan# 829
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:146 Resp: 40073

Ion	Ratio	Lower	Upper
146	100		
148	62.3	50.7	76.1
111	42.5	33.4	50.0

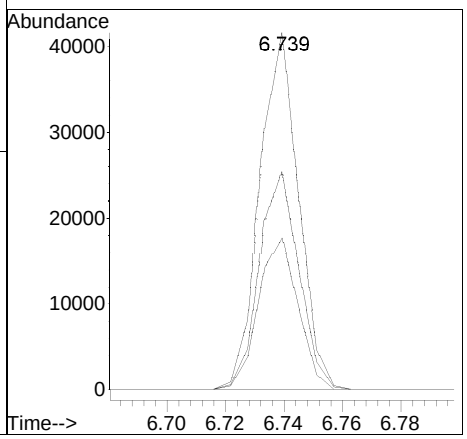


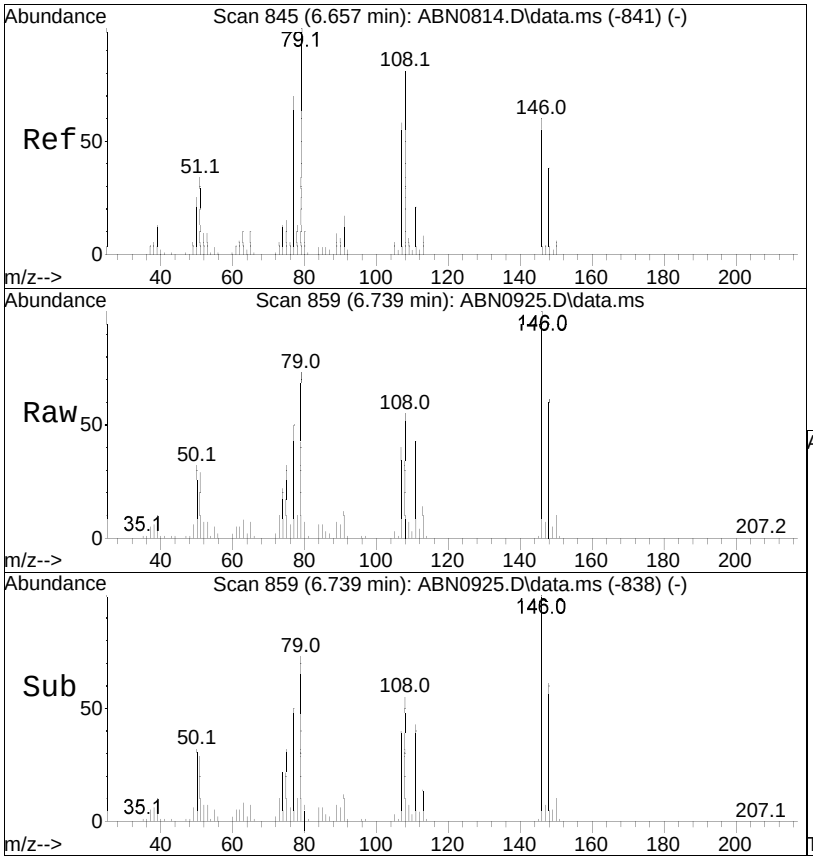


#12
1,2-Dichlorobenzene
Concen: 4.52 ug/ml
RT: 6.739 min Scan# 859
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:146 Resp: 38229

Ion	Ratio	Lower	Upper
146	100		
111	43.6	34.6	52.0
148	62.4	50.2	75.4

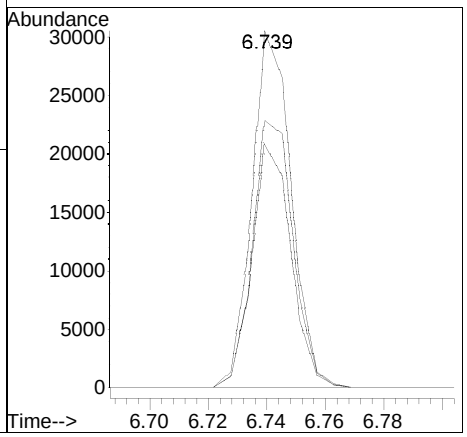


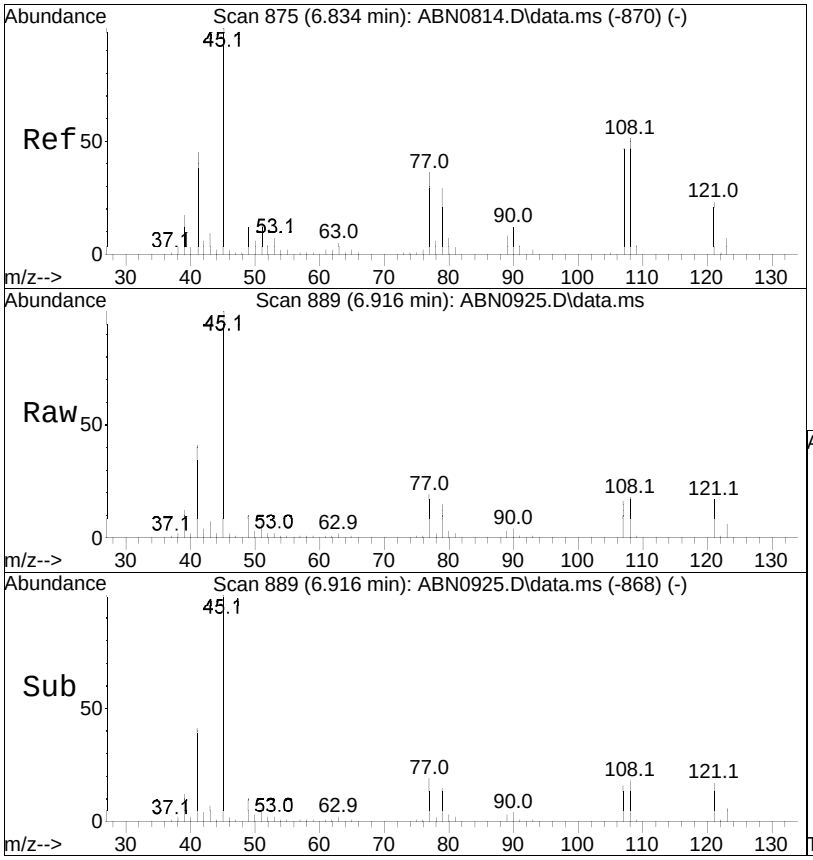


#13
Benzyl alcohol
Concen: 5.18 ug/ml
RT: 6.739 min Scan# 859
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 79 Resp: 28356

Ion	Ratio	Lower	Upper
79	100		
77	68.2	54.9	82.3
108	77.8	63.1	94.7

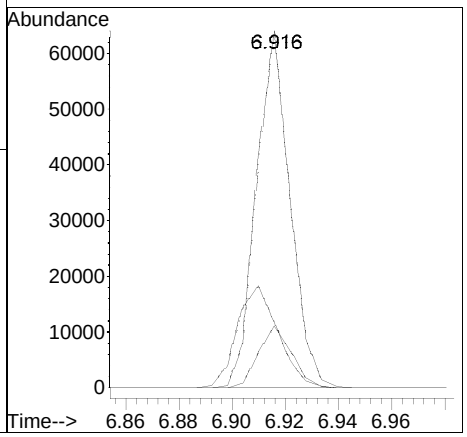


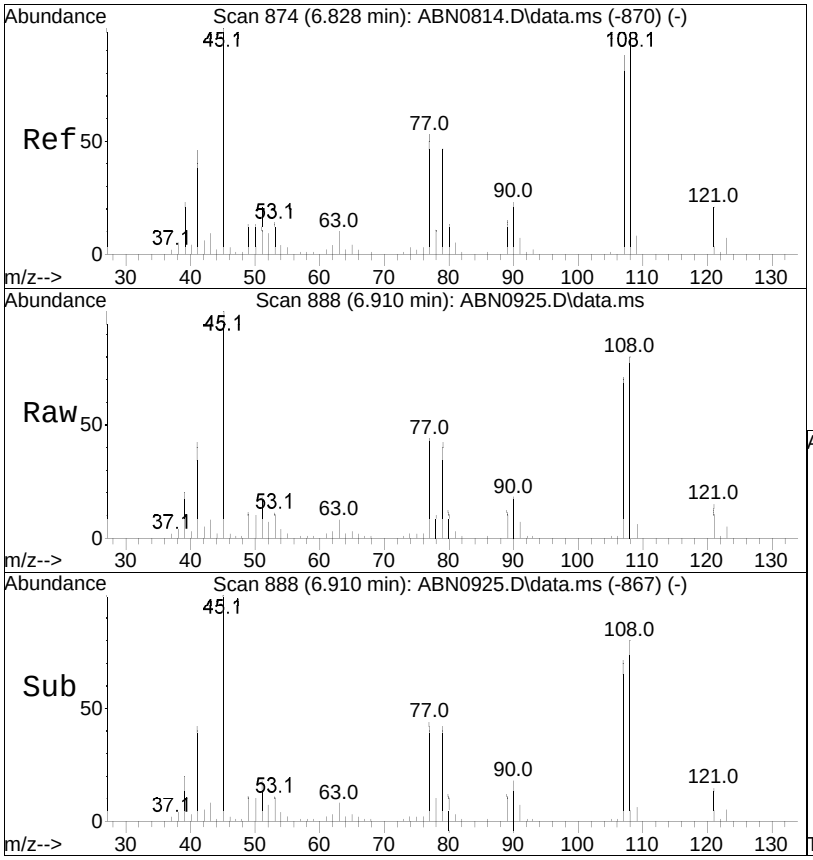


#14
Bis(2-chloroisopropyl)ether
Concen: 6.36 ug/ml
RT: 6.916 min Scan# 889
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 45 Resp: 55761

Ion	Ratio	Lower	Upper
45	100		
121	17.2	9.8	14.6#
77	35.2	6.1	9.1#

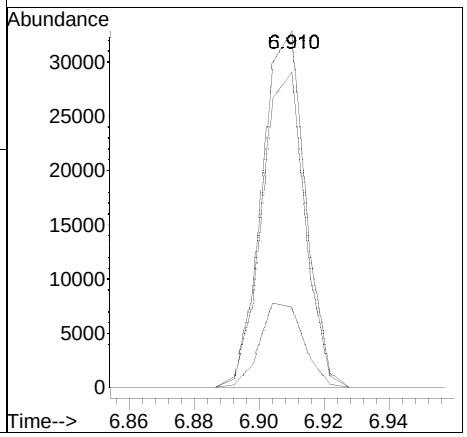


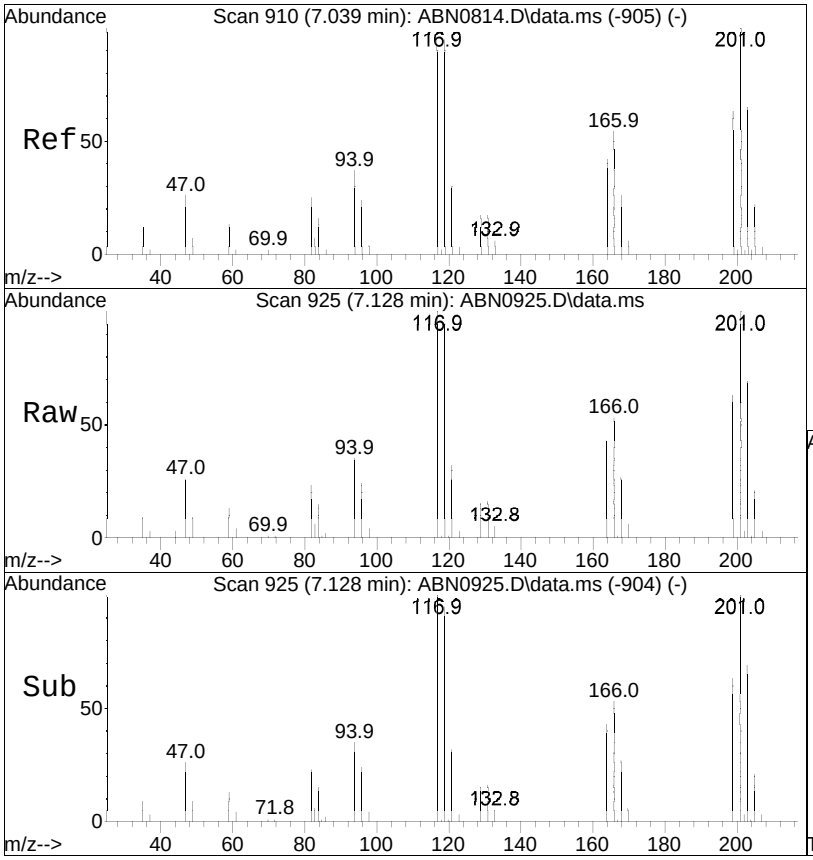


#15
2-Methylphenol
Concen: 4.94 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:108 Resp: 30185

Ion	Ratio	Lower	Upper
108	100		
107	88.3	70.7	106.1
90	24.1	18.7	28.1

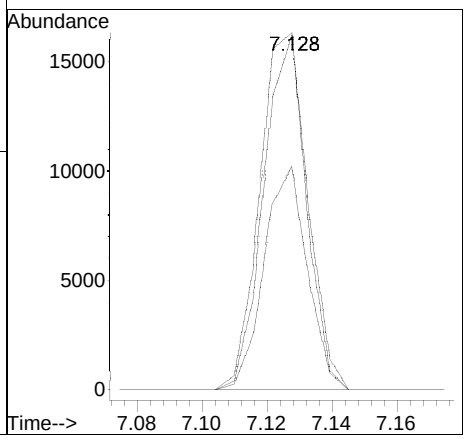


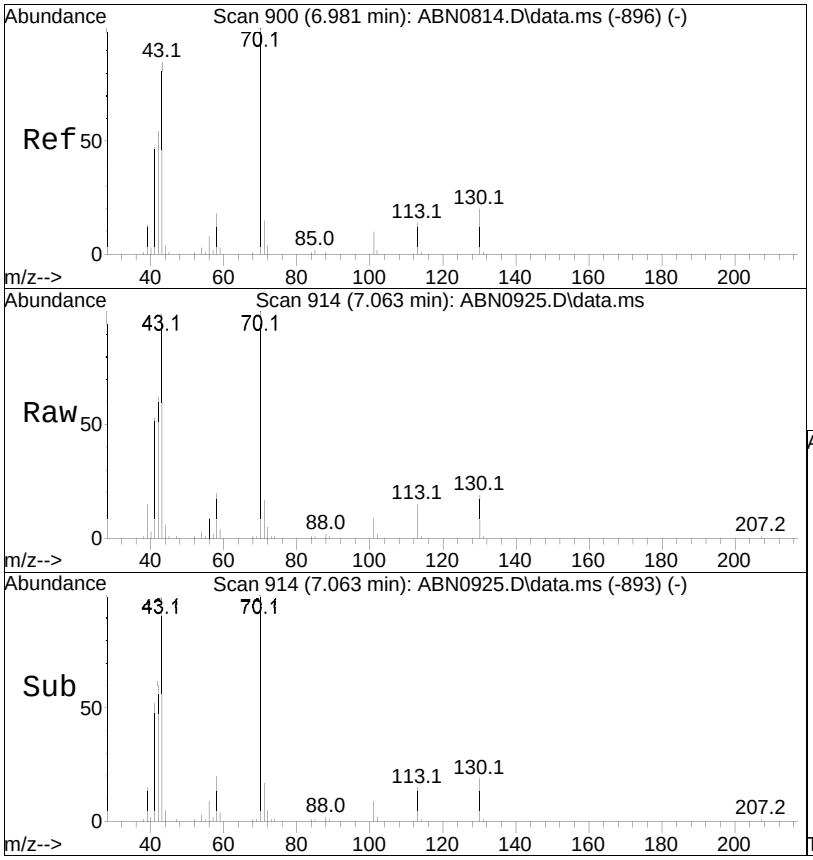


#16
Hexachloroethane
Concen: 5.26 ug/ml
RT: 7.128 min Scan# 925
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:117 Resp: 16051

Ion	Ratio	Lower	Upper
117	100		
201	94.7	58.6	87.8#
199	58.8	36.9	55.3#

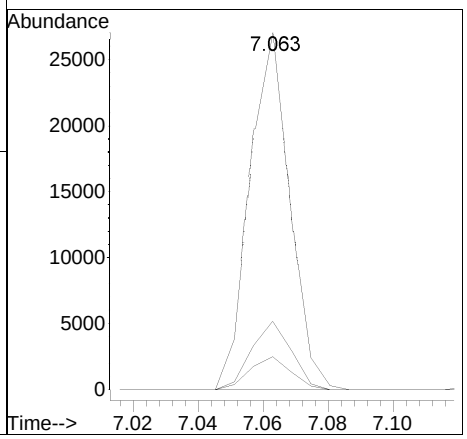


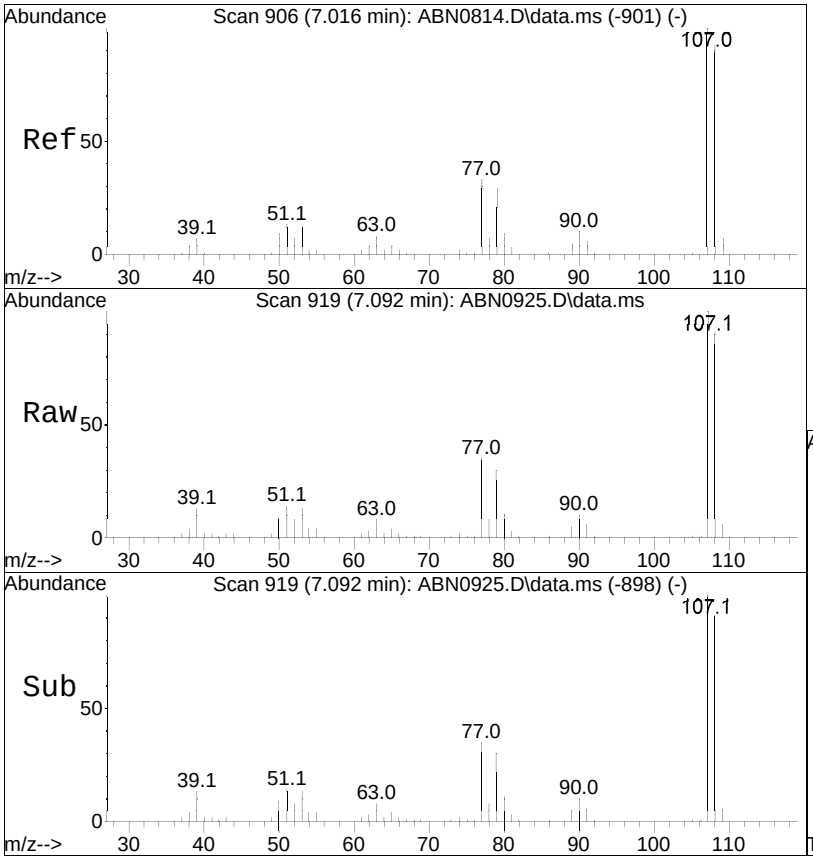


#17
n-Nitrosodi-n-propylamine
Concen: 4.96 ug/ml
RT: 7.063 min Scan# 914
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 70 Resp: 23167

Ion	Ratio	Lower	Upper
70	100		
130	19.0	18.2	27.4
101	9.5	7.8	11.8

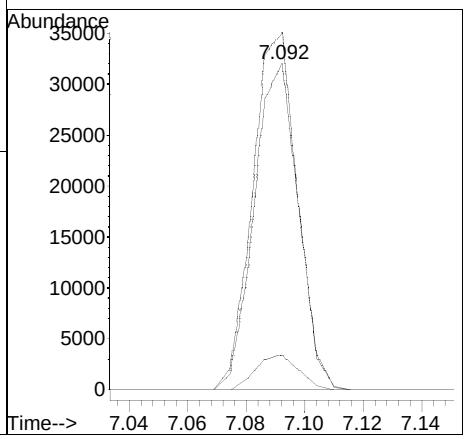


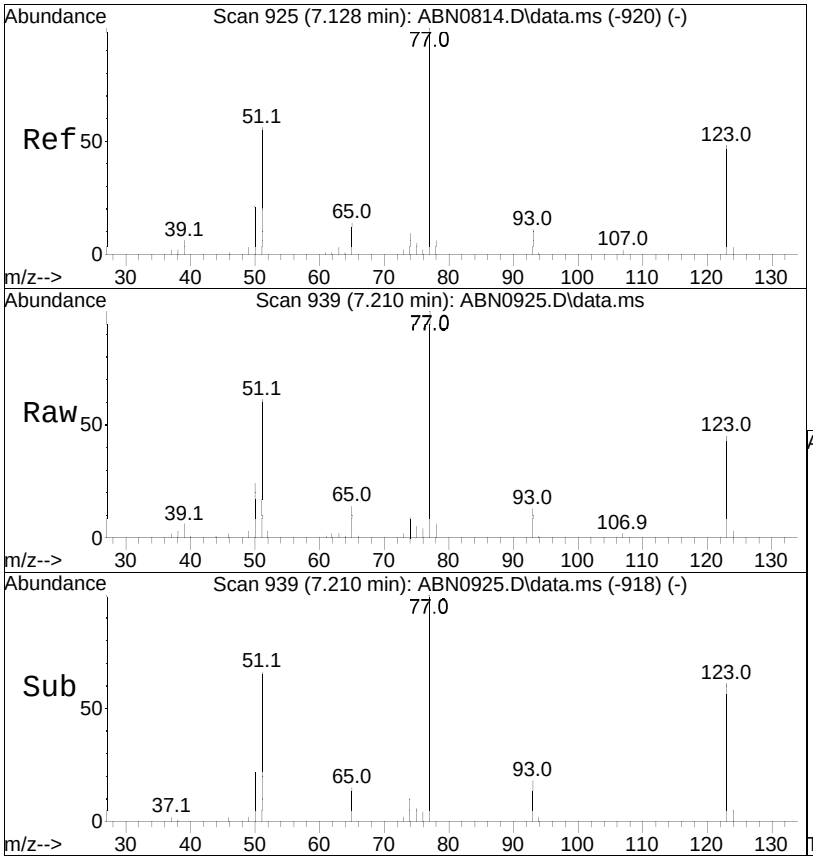


#18
3-Methylphenol/4-Methylphenol
Concen: 4.94 ug/ml
RT: 7.092 min Scan# 919
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:108 Resp: 33213

Ion	Ratio	Lower	Upper
108	100		
107	110.9	88.6	132.8
90	10.5	8.8	13.2

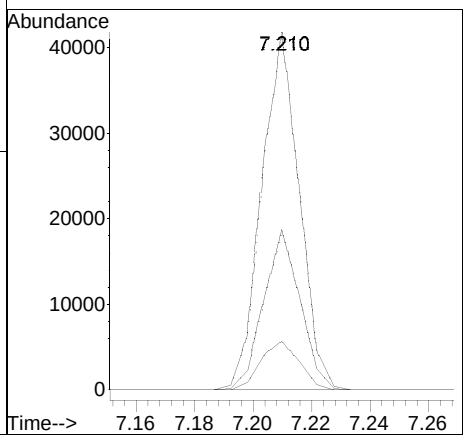


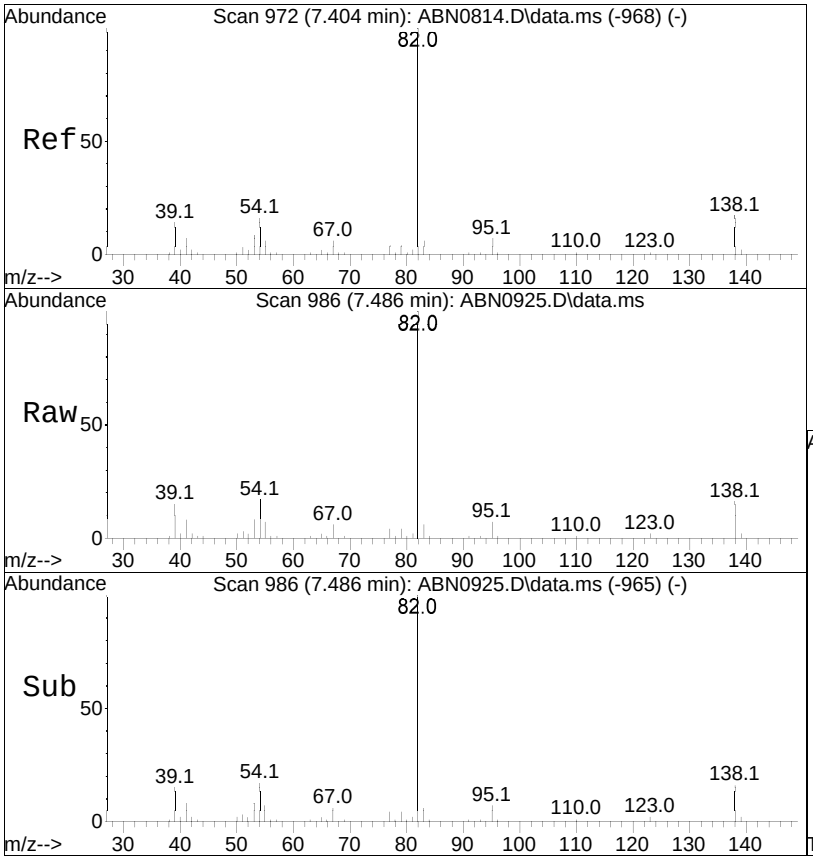


#20
Nitrobenzene
Concen: 5.18 ug/ml
RT: 7.210 min Scan# 939
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 77 Resp: 36866

Ion	Ratio	Lower	Upper
77	100		
123	43.7	36.3	54.5
65	14.1	11.6	17.4

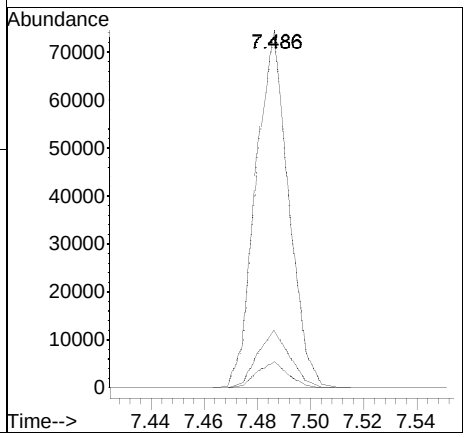


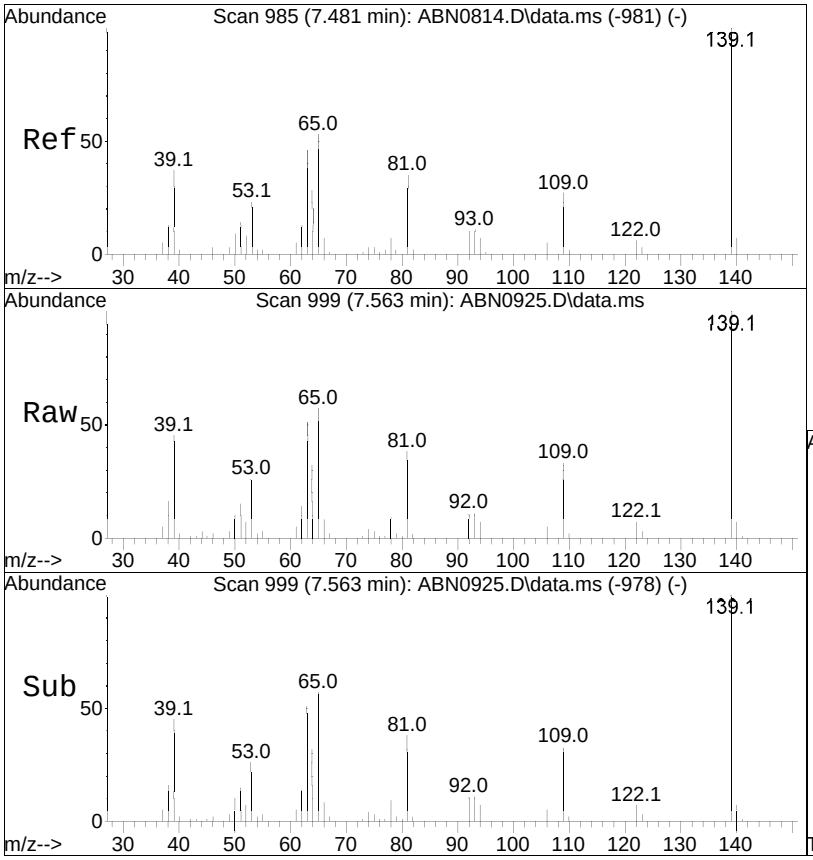


#21
Isophorone
Concen: 4.97 ug/ml
RT: 7.486 min Scan# 986
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 82 Resp: 63139

Ion	Ratio	Lower	Upper
82	100		
138	15.9	14.7	22.1
95	7.0	5.2	7.8

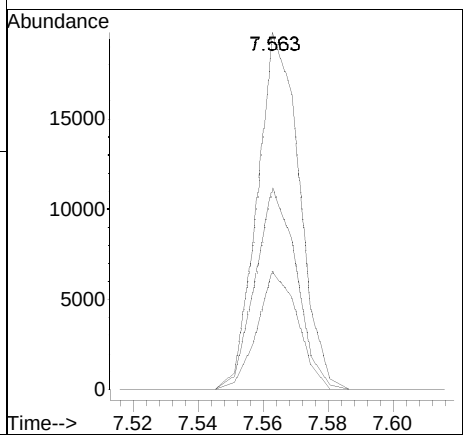


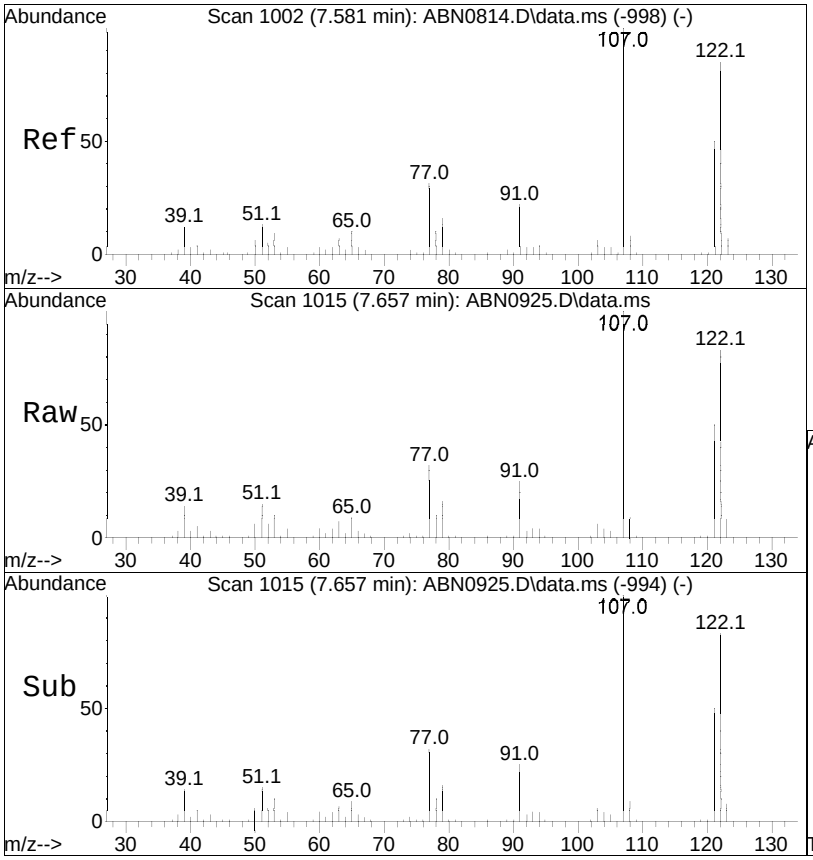


#22
2-Nitrophenol
Concen: 4.89 ug/ml
RT: 7.563 min Scan# 999
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:139 Resp: 17672

Ion	Ratio	Lower	Upper
139	100		
109	32.2	19.4	29.0#
65	55.6	46.1	69.1

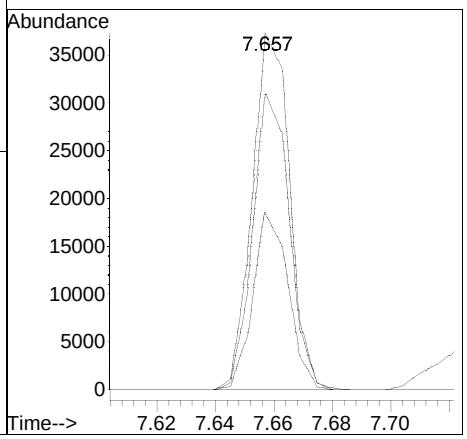


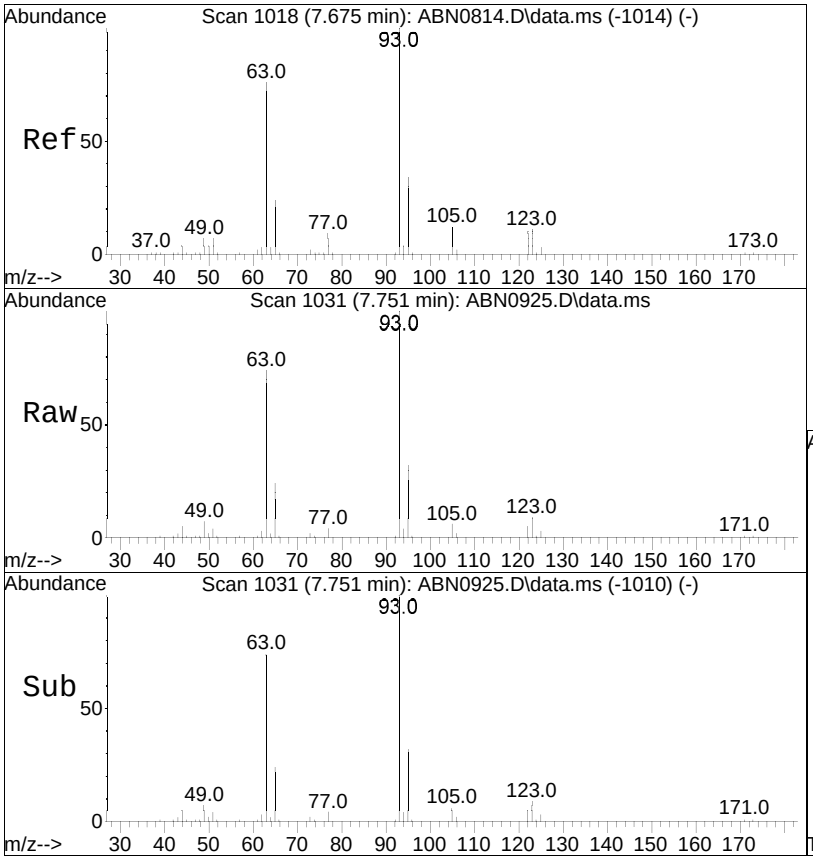


#23
2,4-Dimethylphenol
Concen: 5.63 ug/ml
RT: 7.657 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:107 Resp: 32987

Ion	Ratio	Lower	Upper
107	100		
121	47.2	40.0	60.0
122	81.3	70.2	105.4

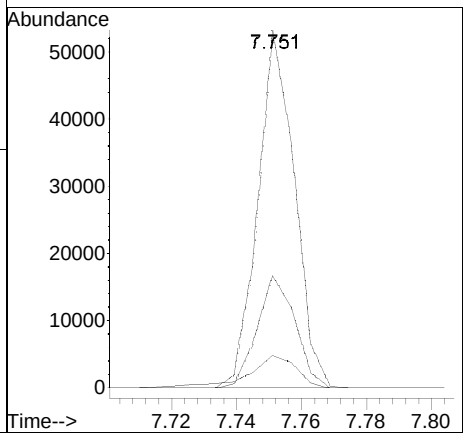


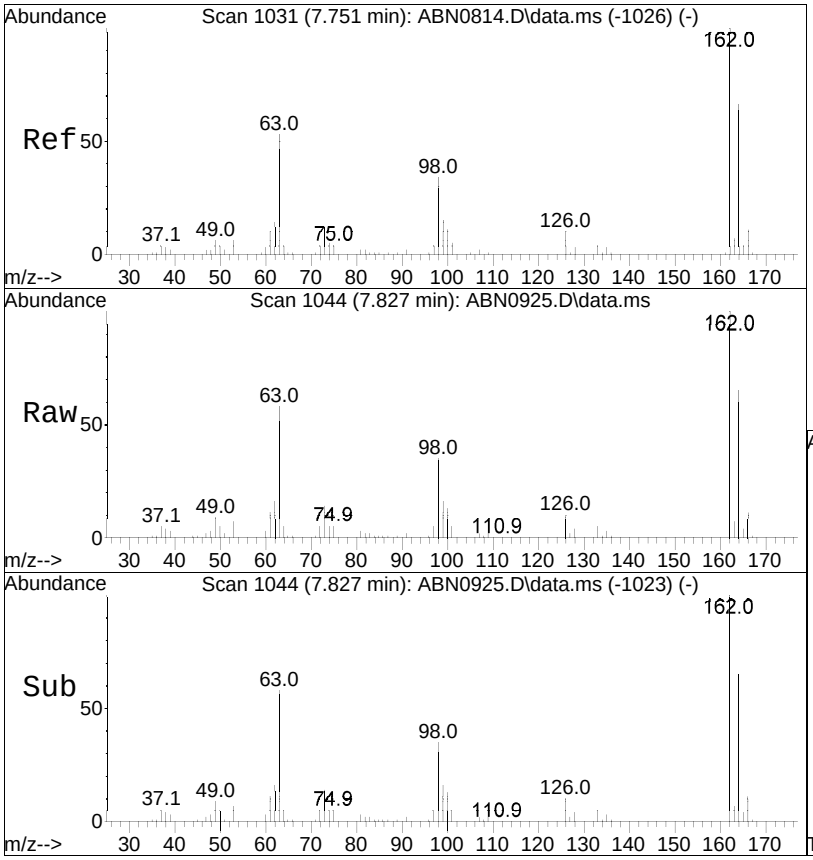


#24
Bis(2-chloroethoxy)methane
Concen: 4.78 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 93 Resp: 41037

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.8	38.8
123	12.2	10.1	15.1

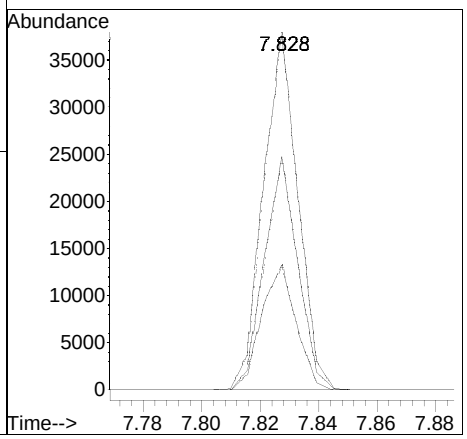


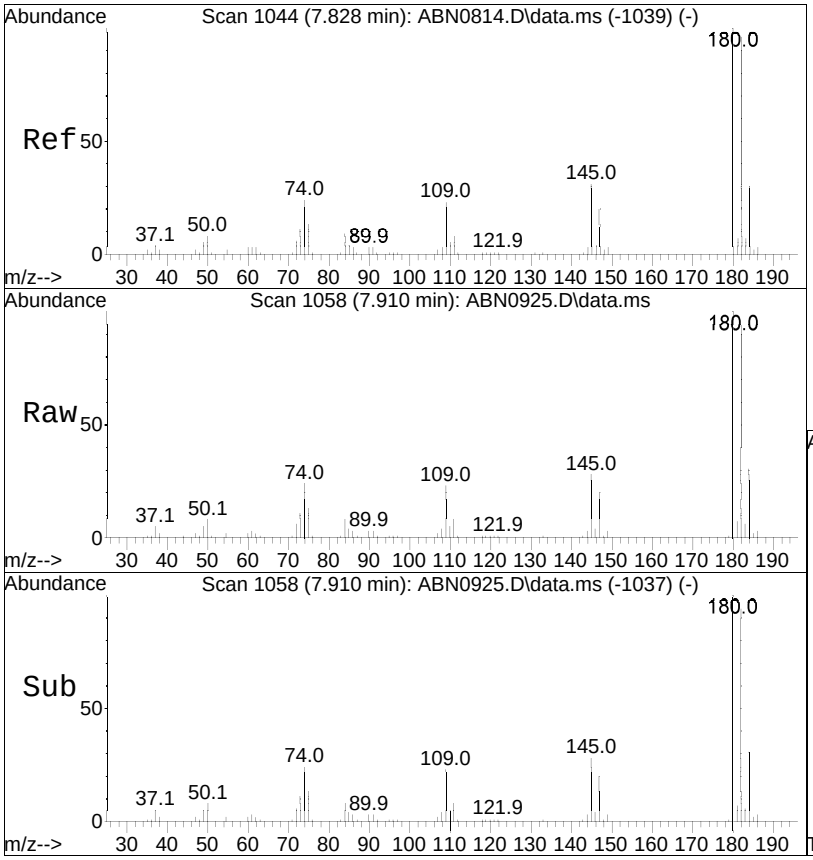


#25
2,4-Dichlorophenol
Concen: 4.80 ug/ml
RT: 7.827 min Scan# 1044
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:162 Resp: 30707

Ion	Ratio	Lower	Upper
162	100		
164	63.3	51.0	76.4
98	35.4	32.2	48.2

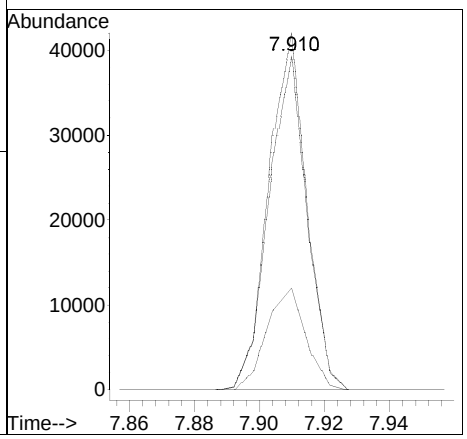


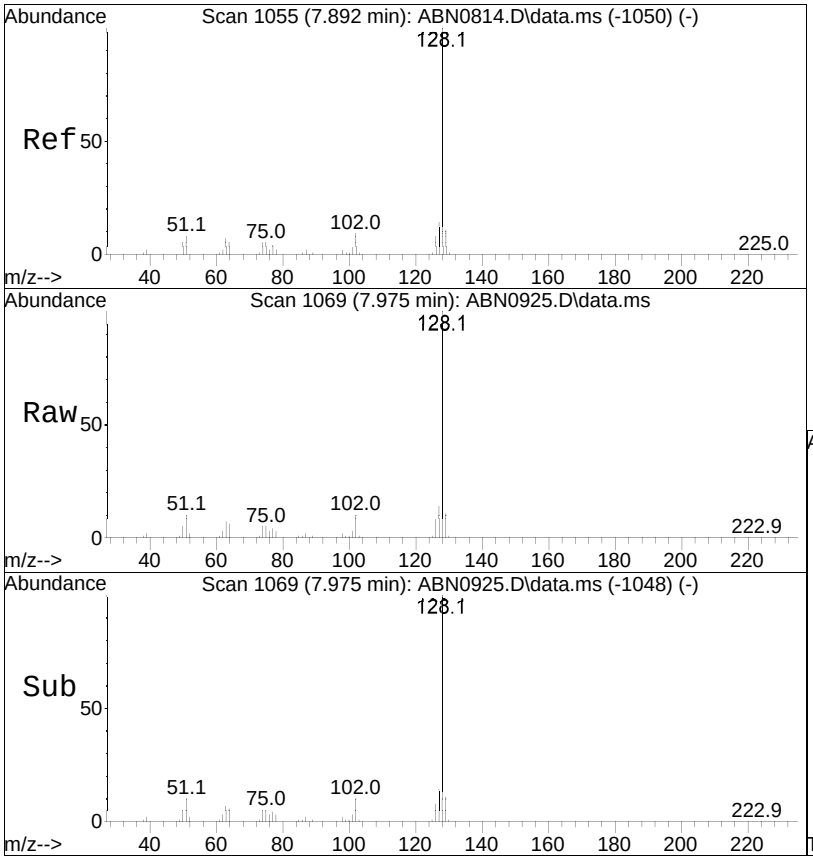


#26
1,2,4-Trichlorobenzene
Concen: 4.48 ug/ml
RT: 7.910 min Scan# 1058
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:180 Resp: 34117

Ion	Ratio	Lower	Upper
180	100		
182	93.5	76.0	114.0
145	29.4	25.7	38.5

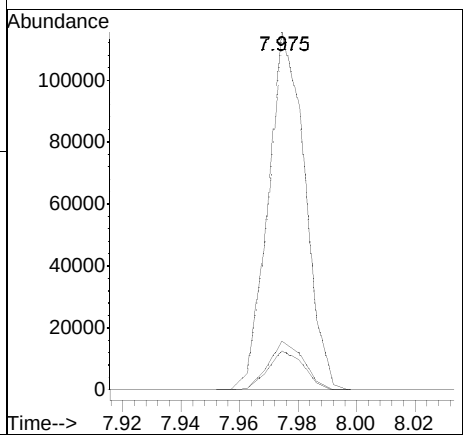


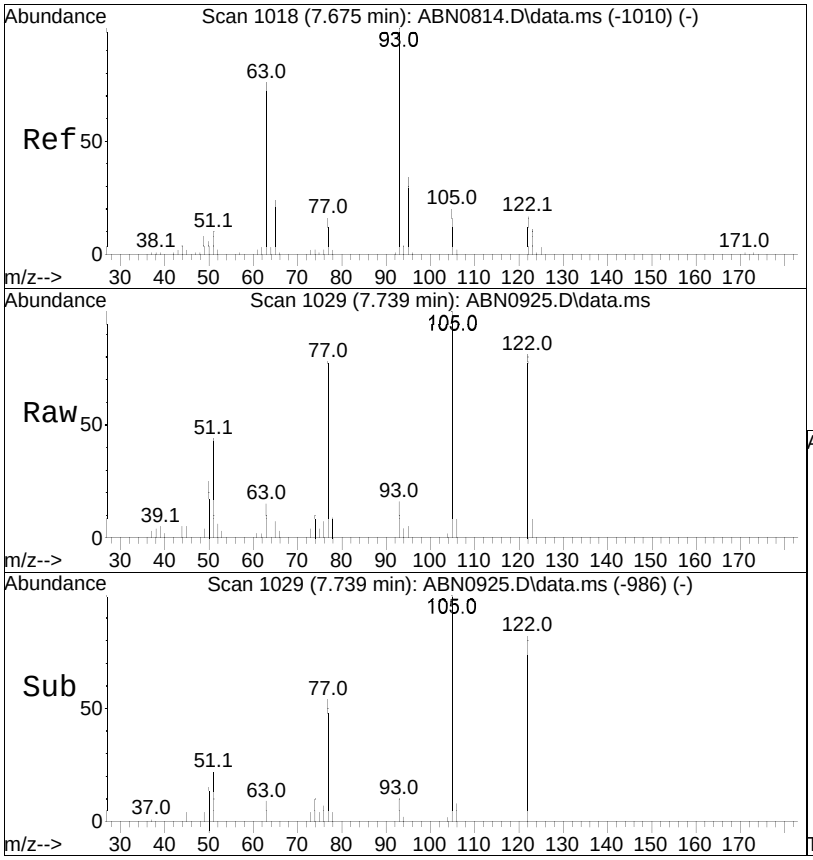


#36
Naphthalene
Concen: 4.53 ug/ml
RT: 7.975 min Scan# 1069
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:128 Resp: 99702

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.7	13.1
127	13.3	10.3	15.5

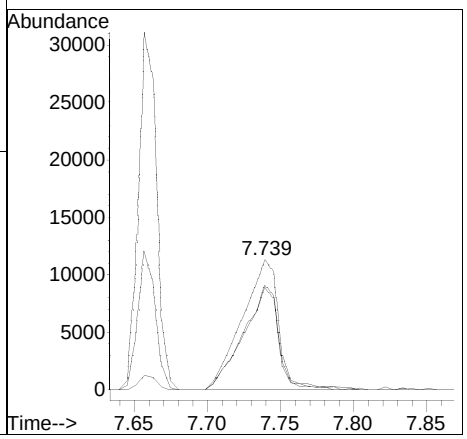


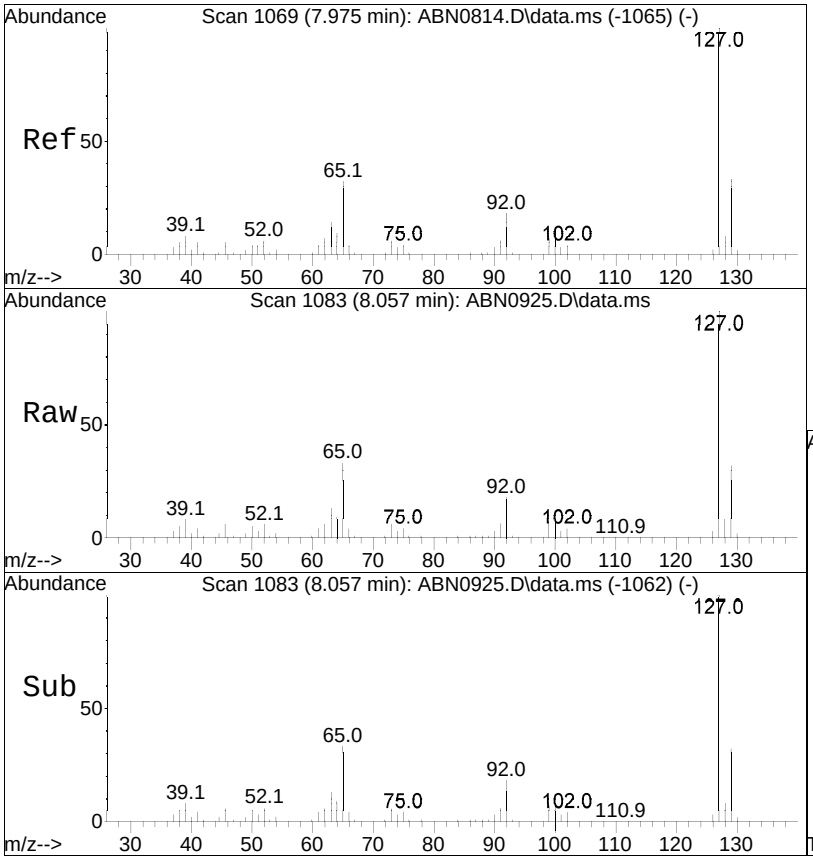


#37
Benzoic Acid
Concen: 5.24 ug/ml
RT: 7.739 min Scan# 1029
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:105 Resp: 19940

Ion	Ratio	Lower	Upper
105	100		
122	75.6	59.9	89.9
77	75.4	60.1	90.1

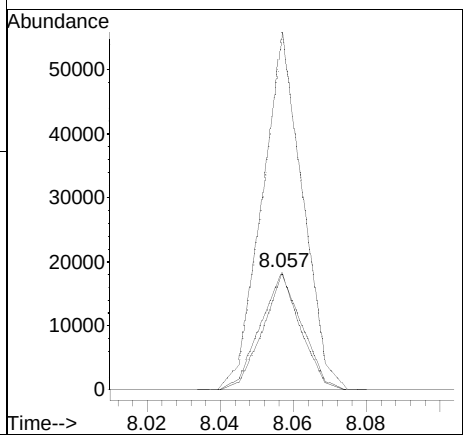


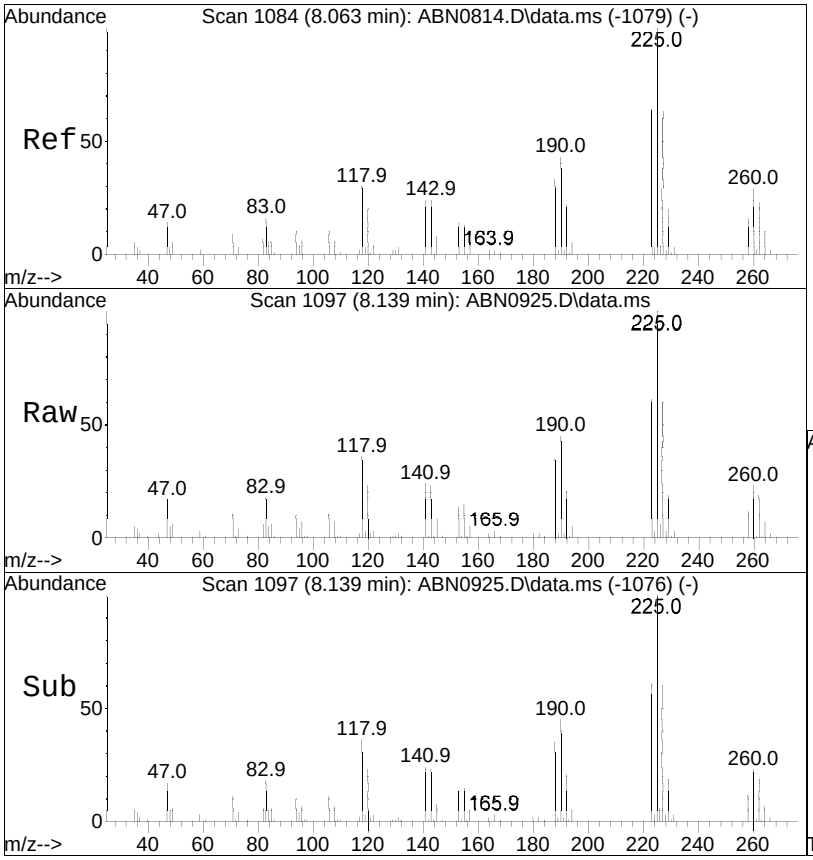


#38
4-Chloroaniline
Concen: 5.64 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 65 Resp: 13880

Ion	Ratio	Lower	Upper
65	100		
127	306.6	237.6	356.4
129	97.5	76.3	114.5

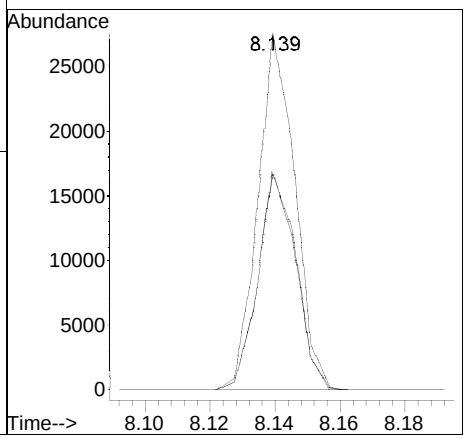


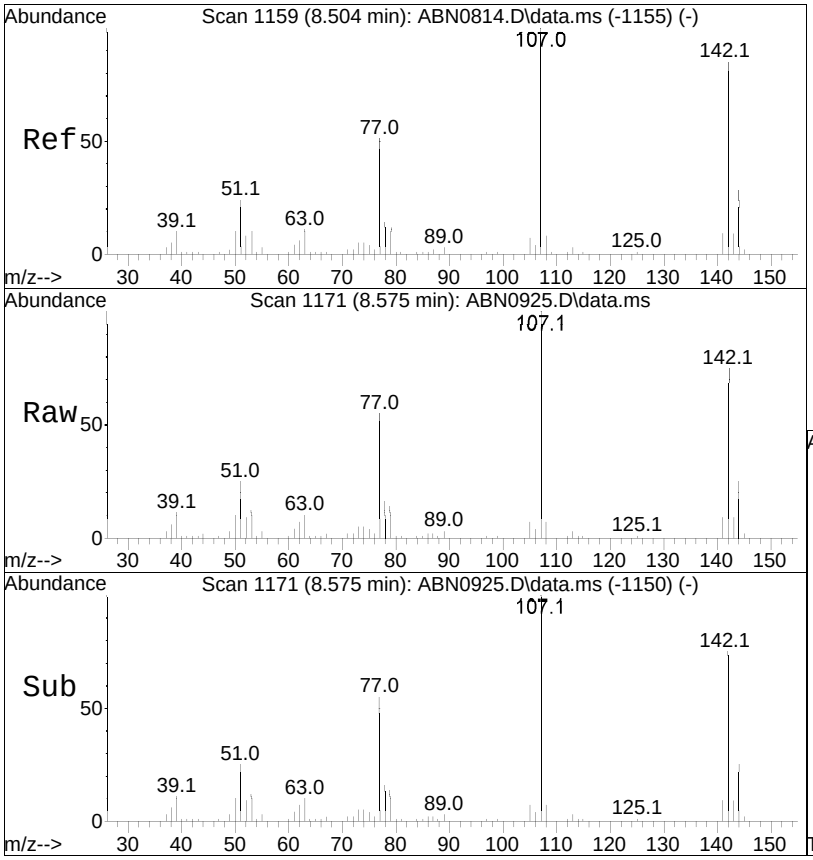


#39
Hexachlorobutadiene
Concen: 4.97 ug/ml
RT: 8.139 min Scan# 1097
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:225 Resp: 21637

Ion	Ratio	Lower	Upper
225	100		
223	62.0	50.3	75.5
227	62.9	52.2	78.2

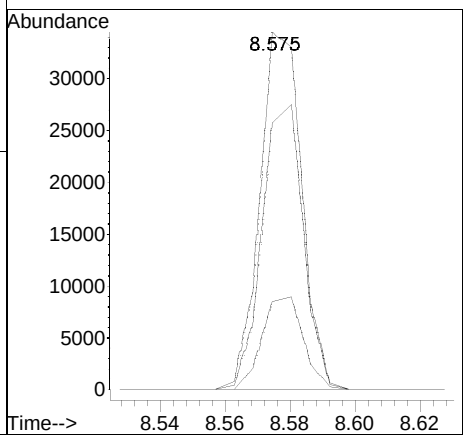


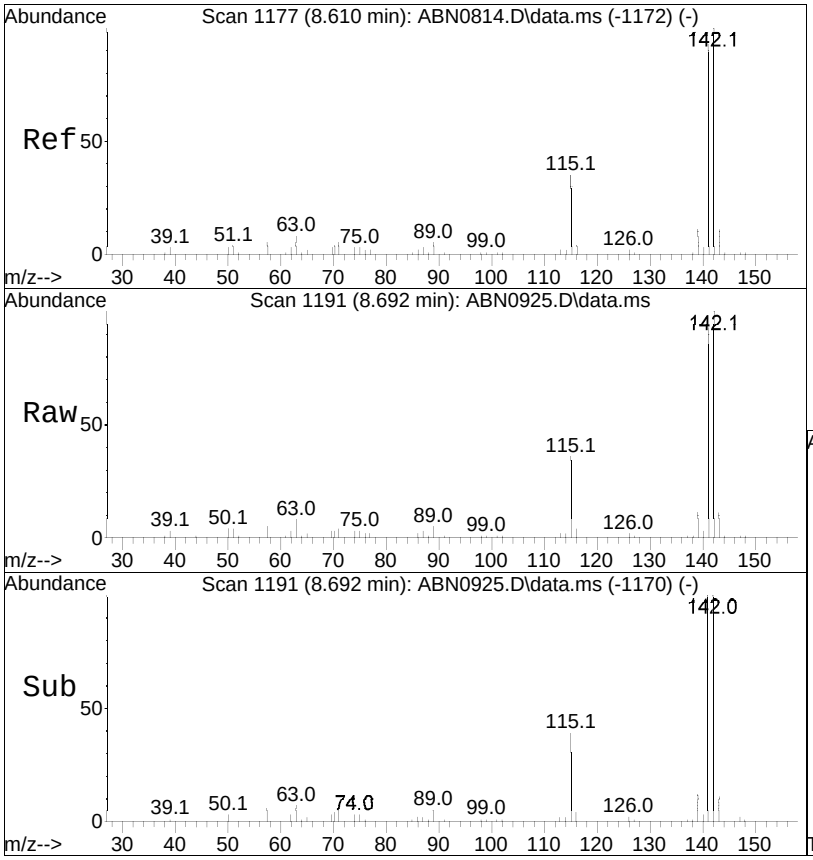


#40
p-Chloro-m-cresol
Concen: 5.56 ug/ml
RT: 8.575 min Scan# 1171
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:107 Resp: 30600

Ion	Ratio	Lower	Upper
107	100		
144	25.6	20.9	31.3
142	78.6	66.1	99.1

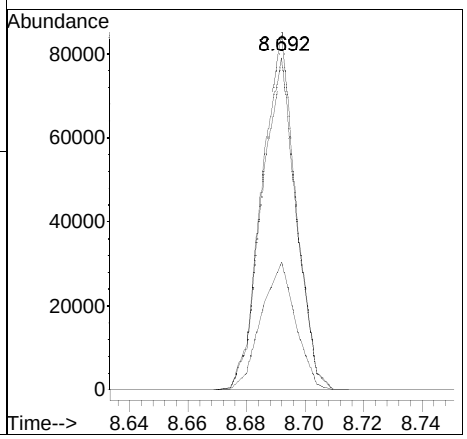


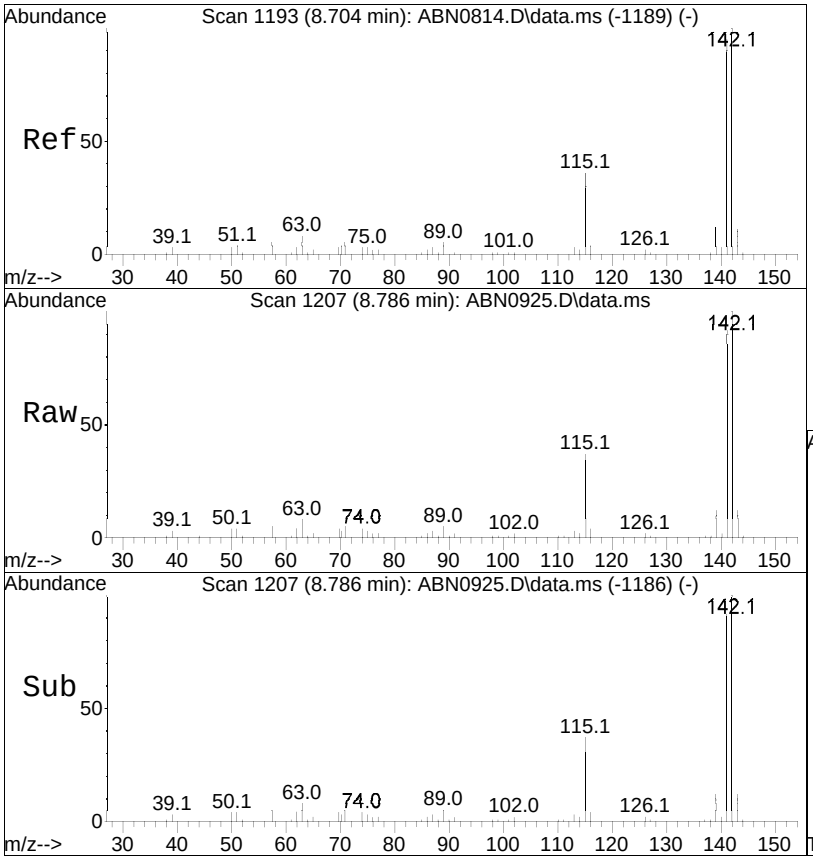


#41
2-Methylnaphthalene
Concen: 4.71 ug/ml
RT: 8.692 min Scan# 1191
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:142 Resp: 67556

Ion	Ratio	Lower	Upper
142	100		
141	94.0	69.6	104.4
115	36.5	26.6	40.0

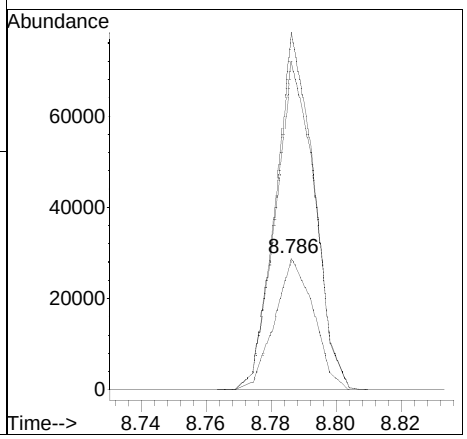


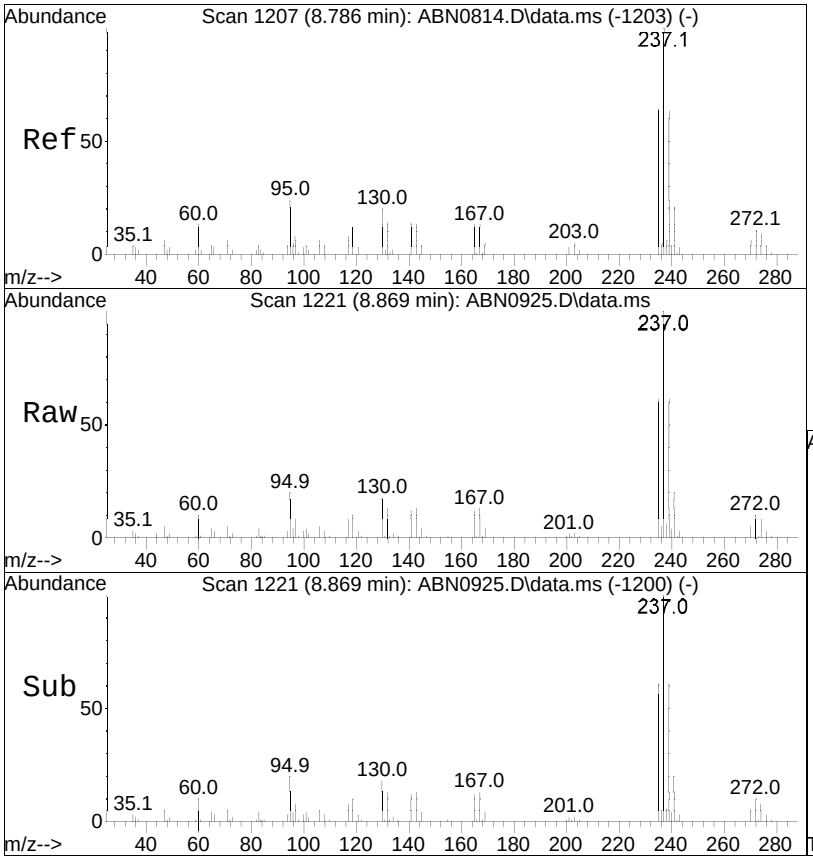


#42
1-Methylnaphthalene
Concen: 5.15 ug/ml
RT: 8.786 min Scan# 1207
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:115 Resp: 23854

Ion	Ratio	Lower	Upper
115	100		
141	250.6	207.8	311.6
142	263.8	226.8	340.2

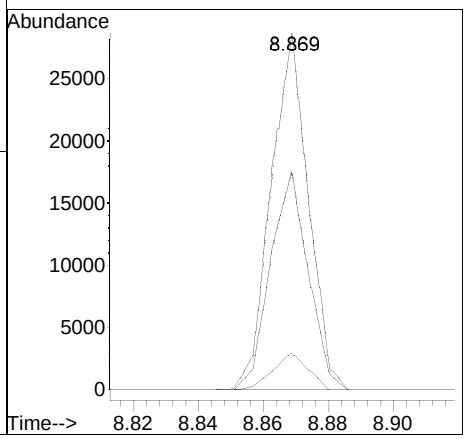


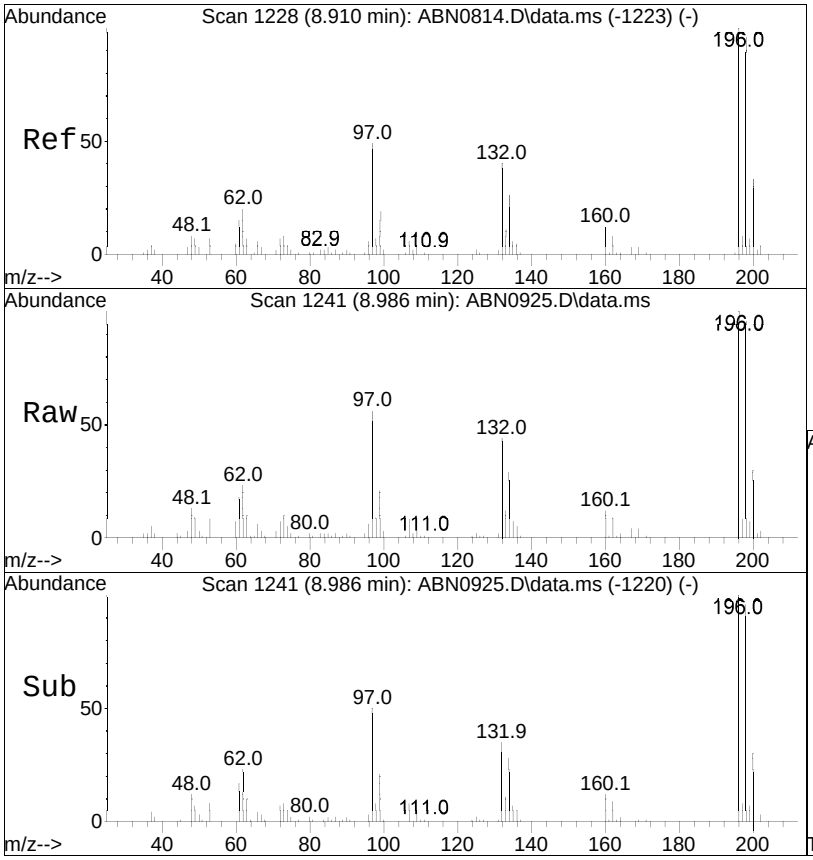


#43
Hexachlorocyclopentadiene
Concen: 5.51 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:237 Resp: 22709

Ion	Ratio	Lower	Upper
237	100		
235	62.2	49.7	74.5
272	9.8	9.8	14.6

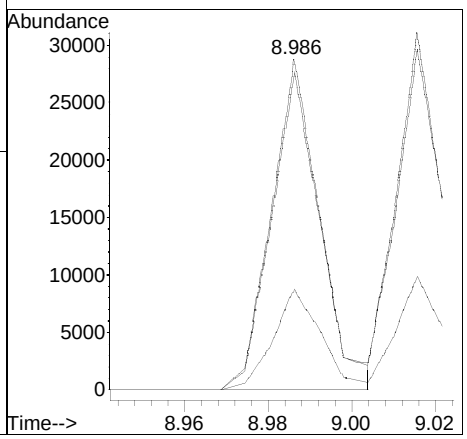


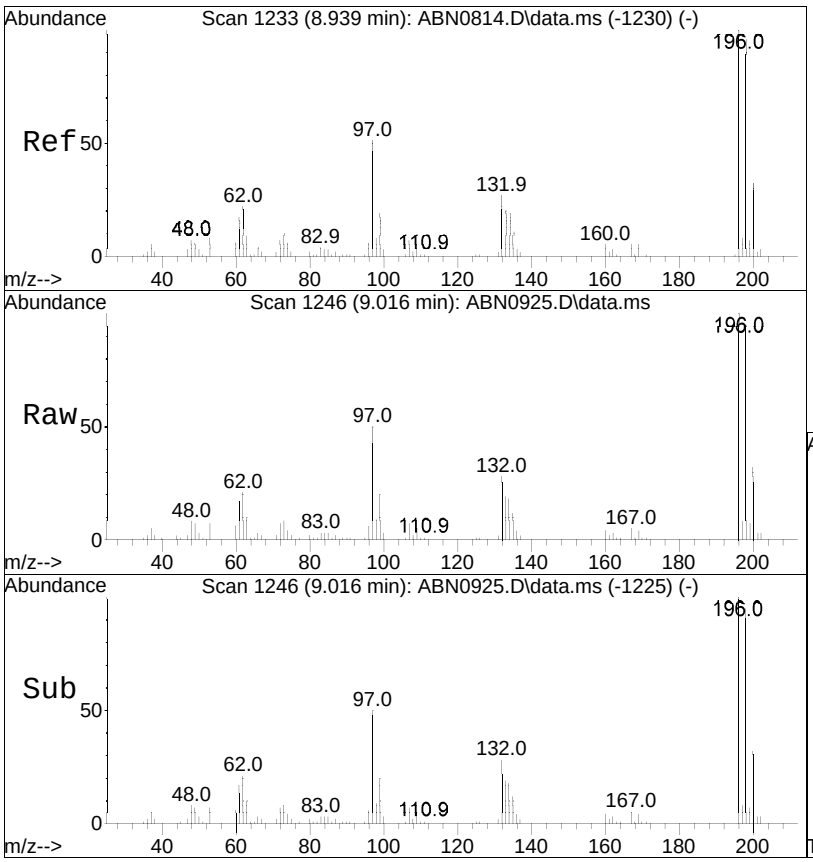


#44
2,4,6-Trichlorophenol
Concen: 5.09 ug/ml
RT: 8.986 min Scan# 1241
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:196 Resp: 23184

Ion	Ratio	Lower	Upper
196	100		
198	96.6	77.5	116.3
200	30.5	23.8	35.6

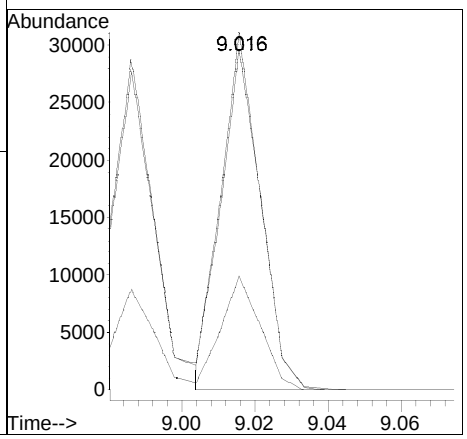


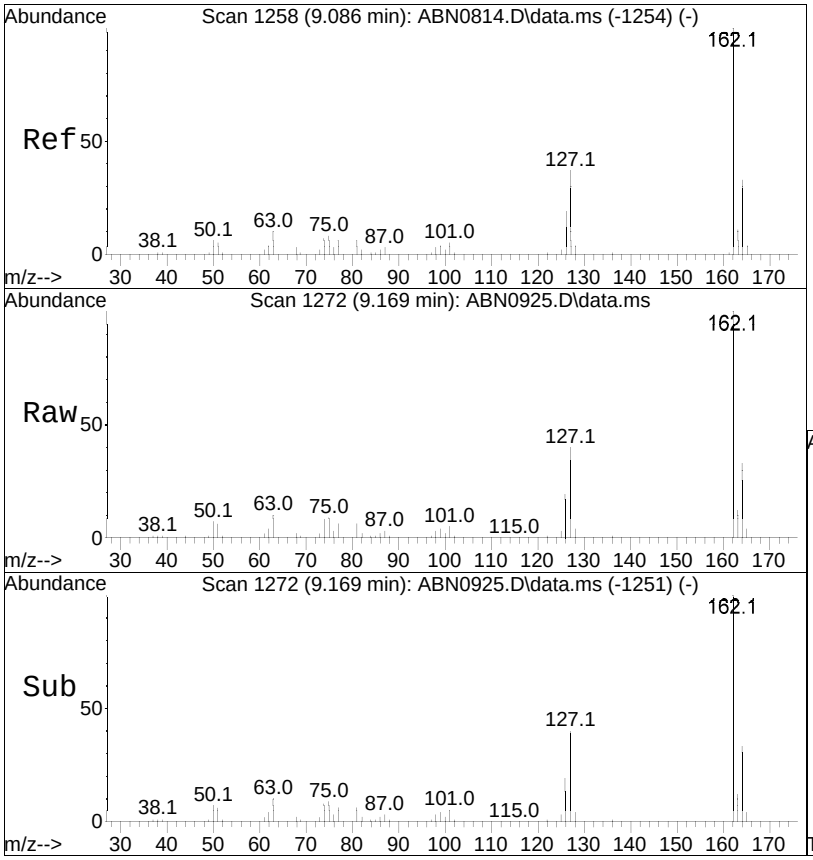


#45
2,4,5-Trichlorophenol
Concen: 4.78 ug/ml
RT: 9.016 min Scan# 1246
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:196 Resp: 23143

Ion	Ratio	Lower	Upper
196	100		
200	31.8	25.4	38.0
198	96.5	78.0	117.0

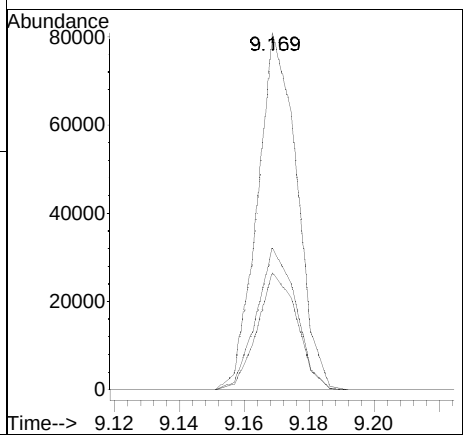


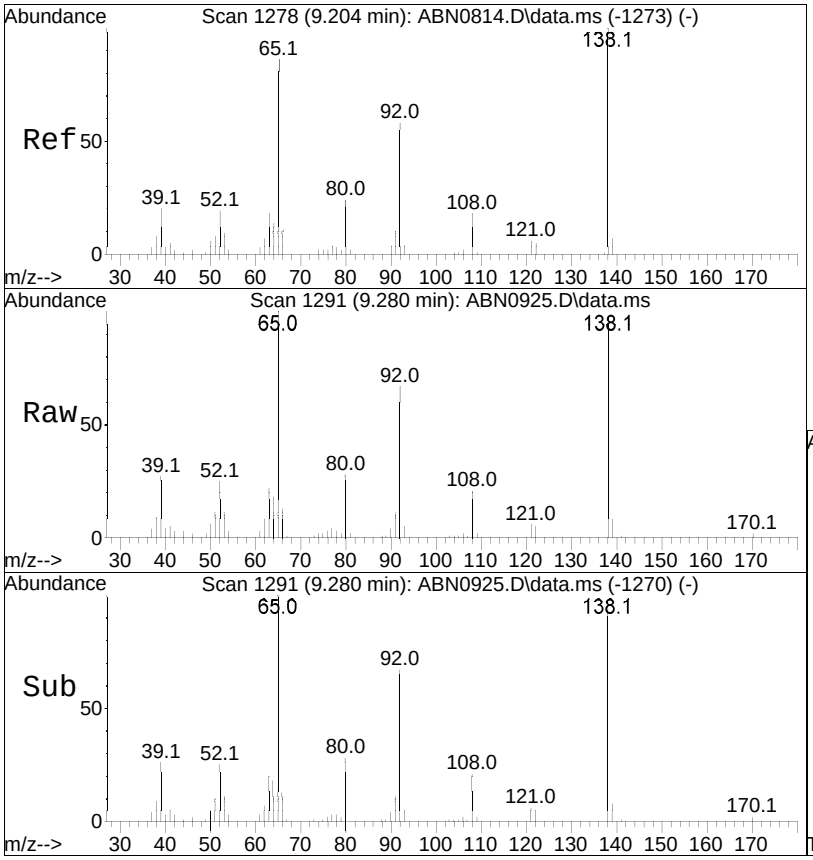


#47
2-Chloronaphthalene
Concen: 4.53 ug/ml
RT: 9.169 min Scan# 1272
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:162 Resp: 67260

Ion	Ratio	Lower	Upper
162	100		
127	39.9	32.2	48.4
164	33.2	25.7	38.5

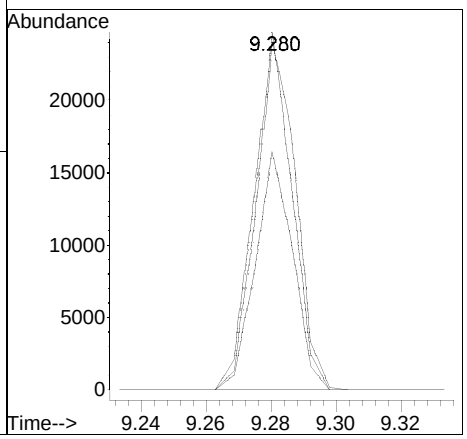


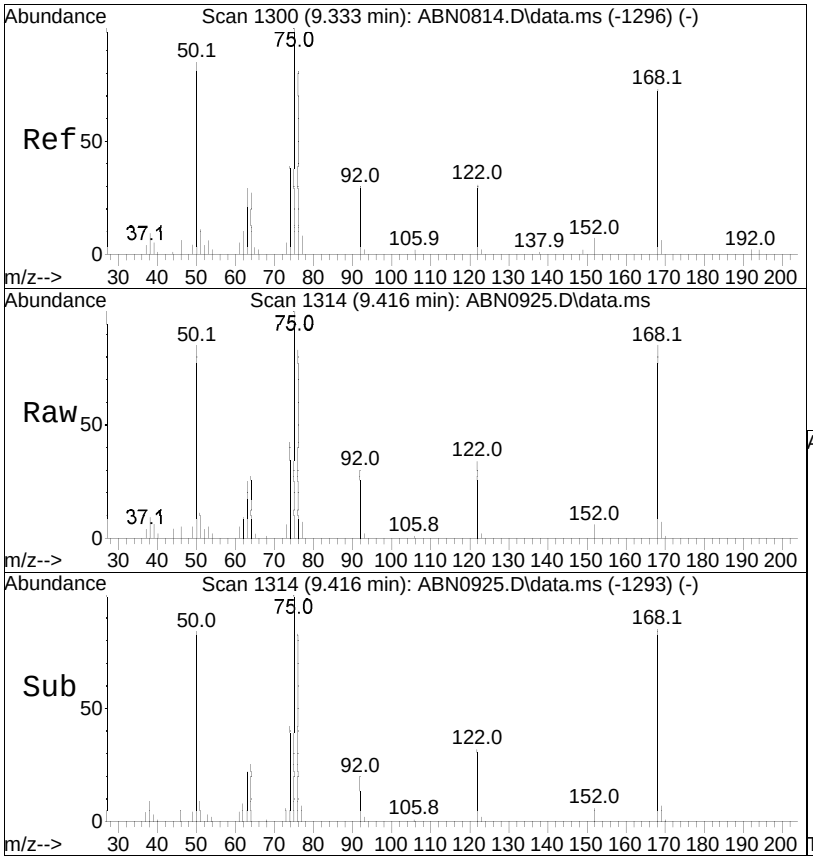


#48
2-Nitroaniline
Concen: 5.07 ug/ml
RT: 9.280 min Scan# 1291
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:138 Resp: 20151

Ion	Ratio	Lower	Upper
138	100		
92	64.4	53.5	80.3
65	97.8	86.3	129.5

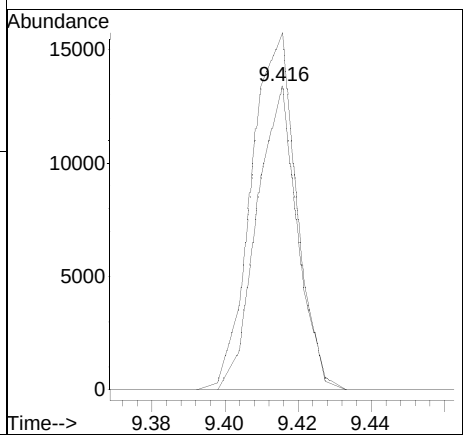


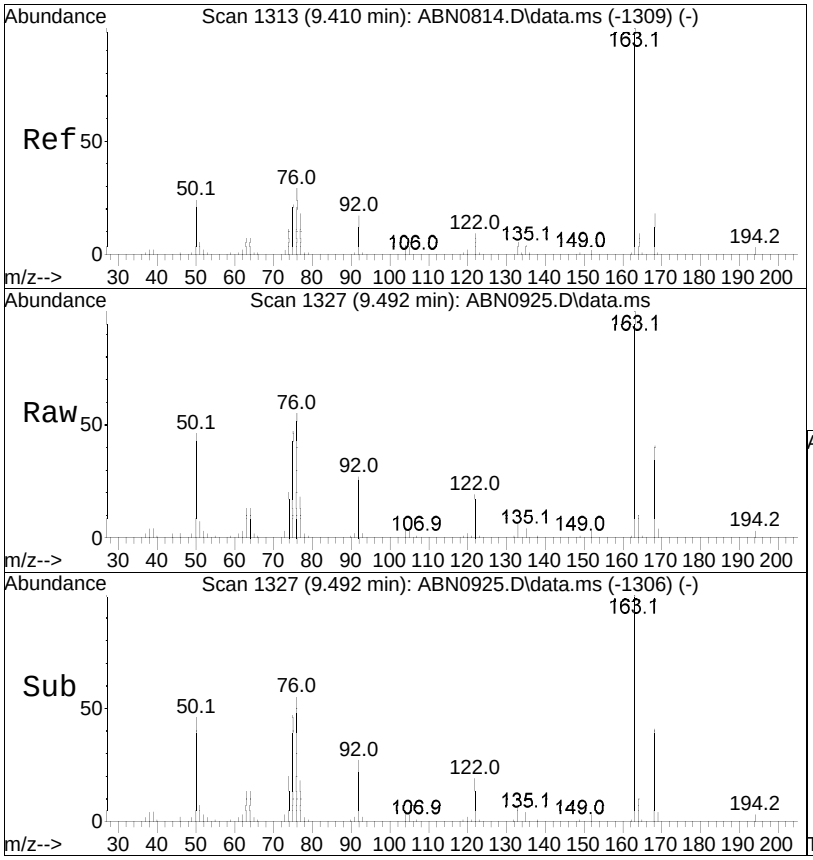


#49
1,4-Dinitrobenzene
Concen: 4.84 ug/ml
RT: 9.416 min Scan# 1314
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:168 Resp: 10352

Ion	Ratio	Lower	Upper
168	100		
75	130.2	121.8	182.8

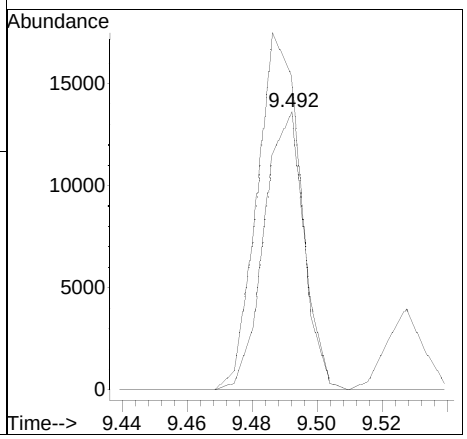


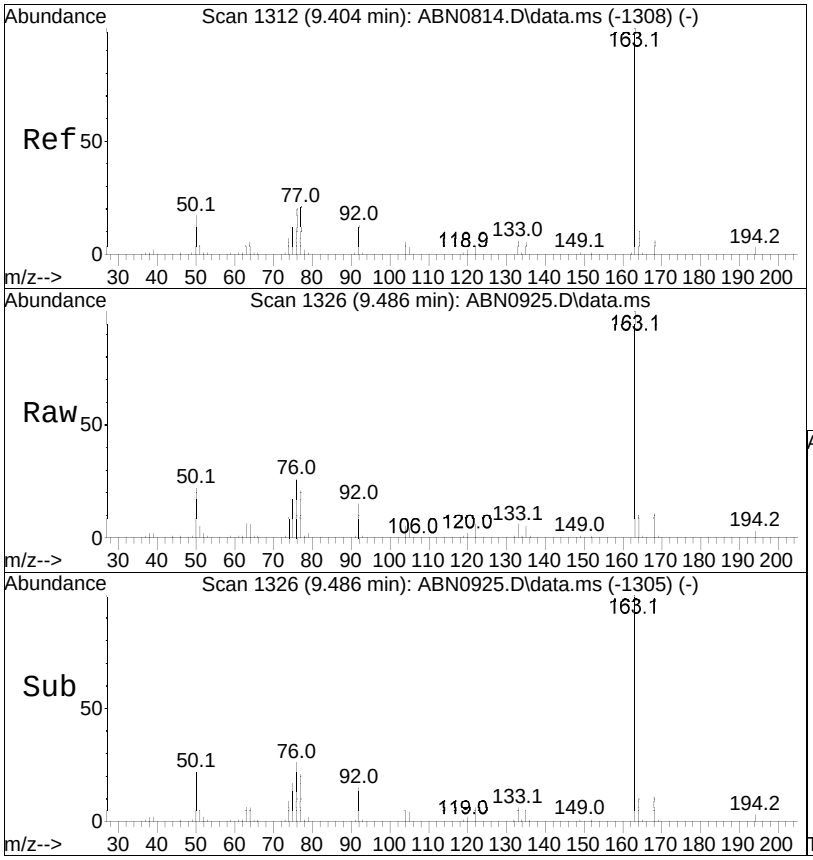


#50
1,3-Dinitrobenzene
Concen: 4.65 ug/ml
RT: 9.492 min Scan# 1327
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:168 Resp: 11665

Ion	Ratio	Lower	Upper
168	100		
75	136.4	22.7	34.1#

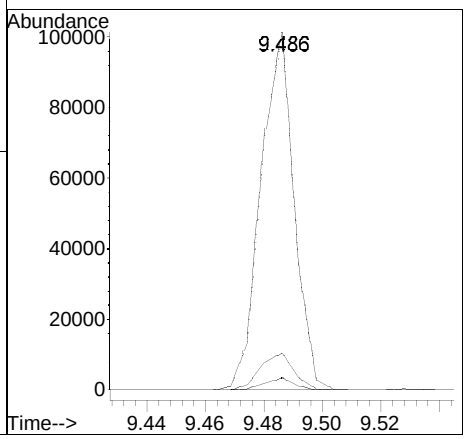


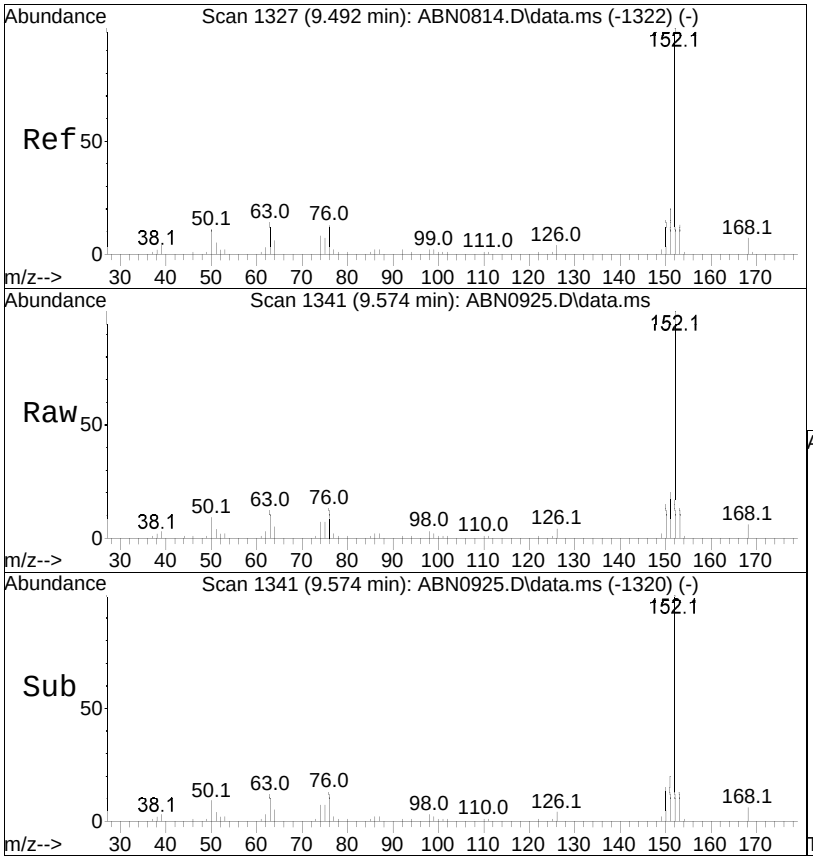


#51
Dimethyl phthalate
Concen: 4.71 ug/ml
RT: 9.486 min Scan# 1326
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:163 Resp: 79068

Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	10.5	7.9	11.9

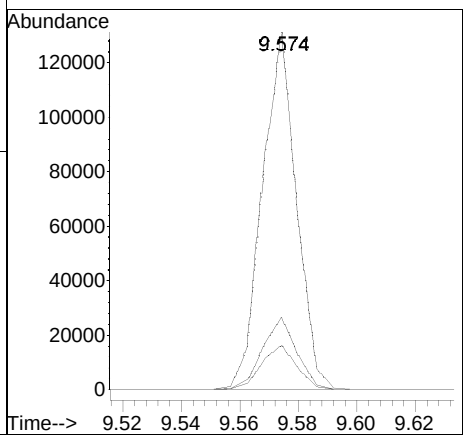


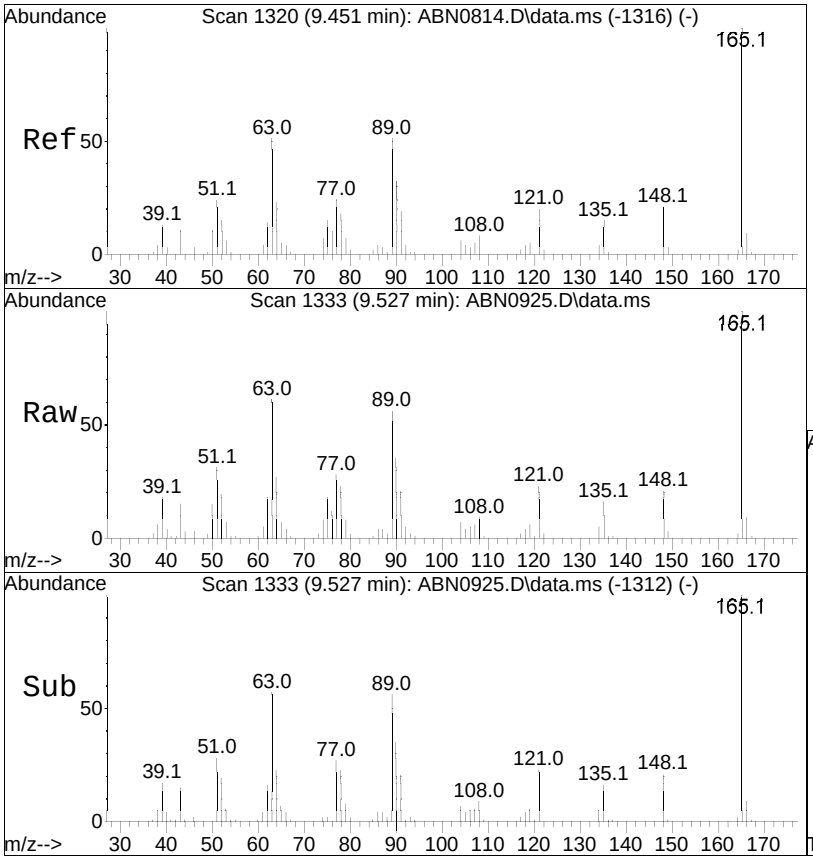


#52
Acenaphthylene
Concen: 4.76 ug/ml
RT: 9.574 min Scan# 1341
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:152 Resp: 105003

Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.8	23.6
153	13.0	10.5	15.7

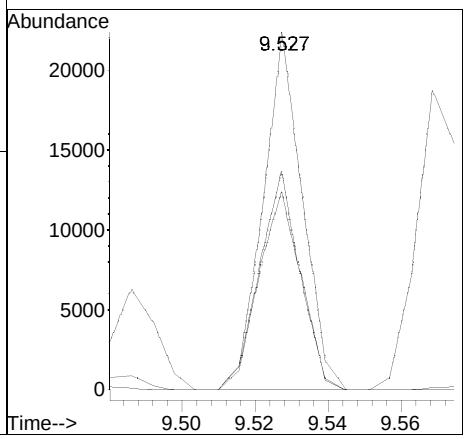


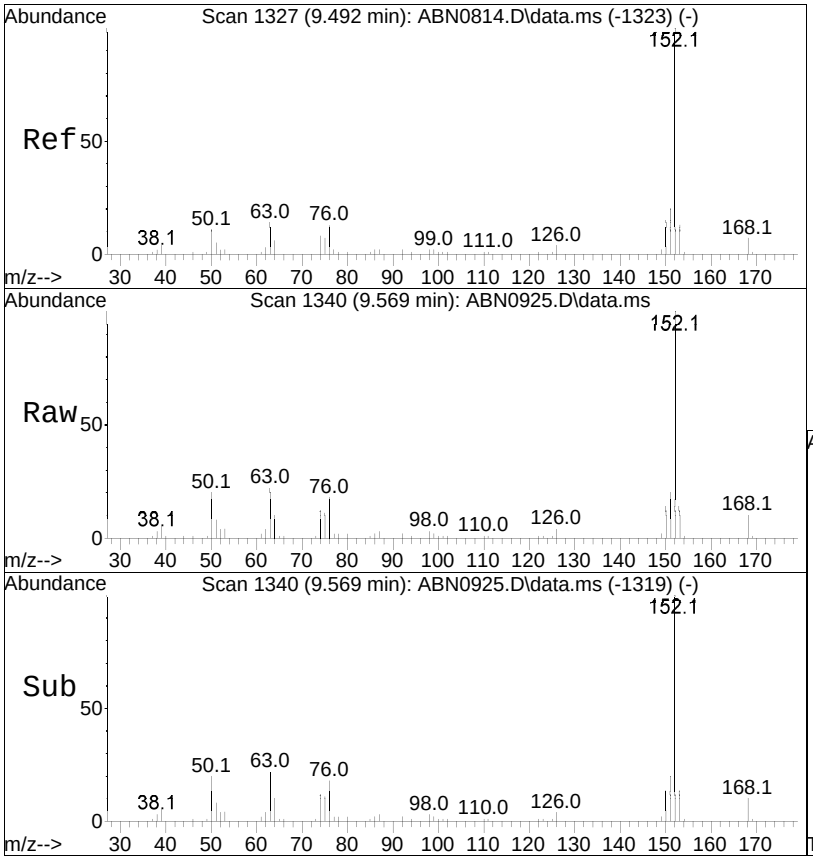


#53
2,6-Dinitrotoluene
Concen: 5.08 ug/ml
RT: 9.527 min Scan# 1333
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:165 Resp: 16678

Ion	Ratio	Lower	Upper
165	100		
89	59.9	54.2	81.2
63	63.1	64.2	96.2#

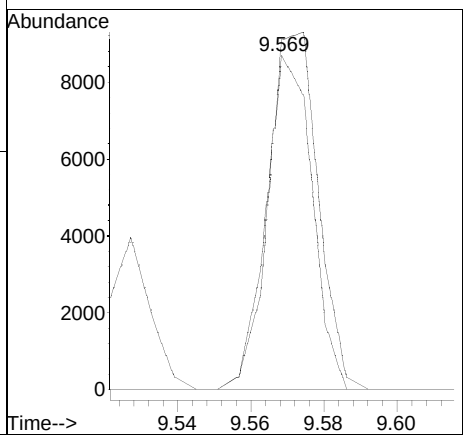


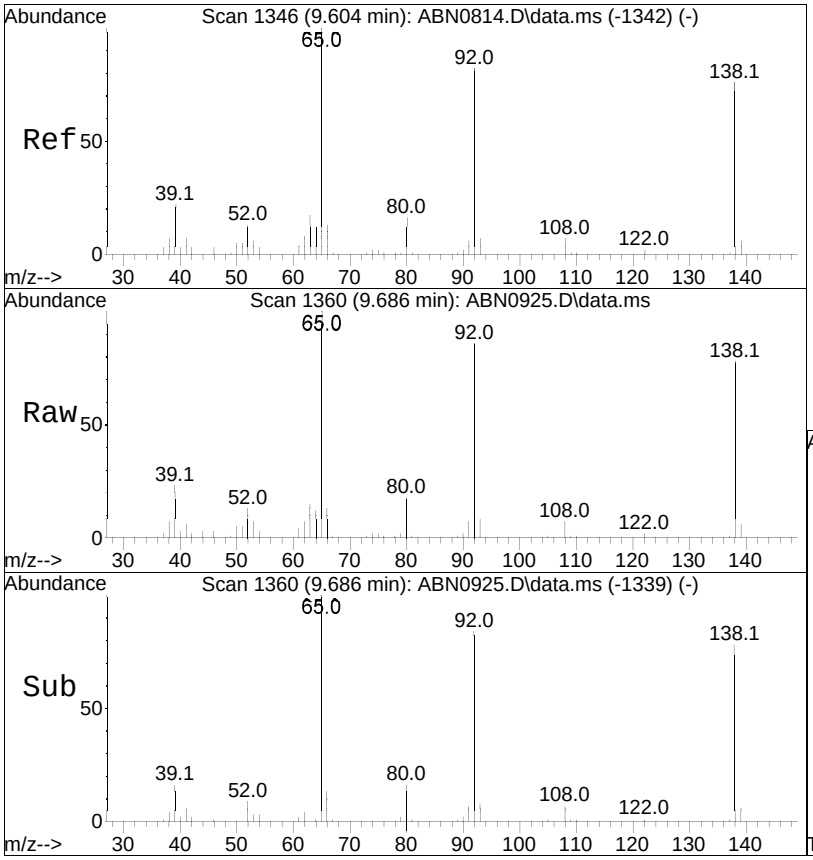


#54
1,2-Dinitrobenzene
Concen: 5.08 ug/ml
RT: 9.569 min Scan# 1340
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:168 Resp: 7579

Ion	Ratio	Lower	Upper
168	100		
75	115.1	30.9	46.3#

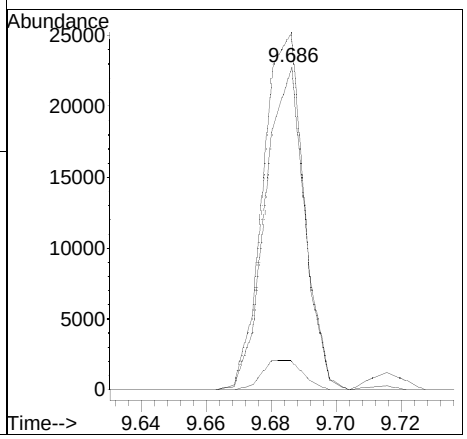


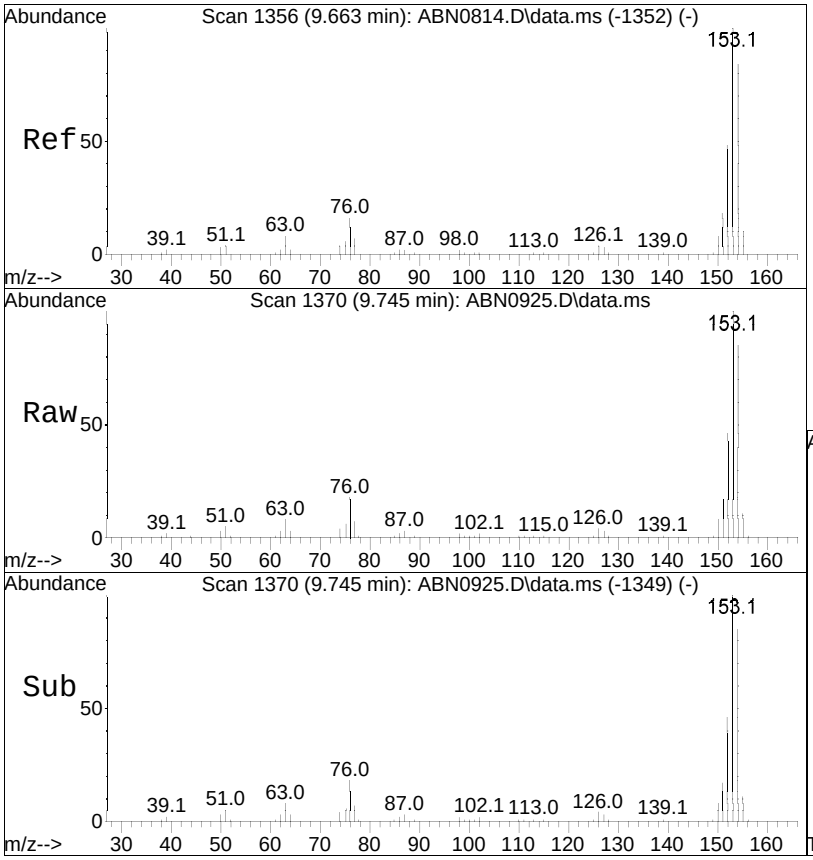


#64
3-Nitroaniline
Concen: 5.20 ug/ml
RT: 9.686 min Scan# 1360
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:138 Resp: 18990

Ion	Ratio	Lower	Upper
138	100		
92	115.1	93.4	140.2
108	9.6	9.5	14.3

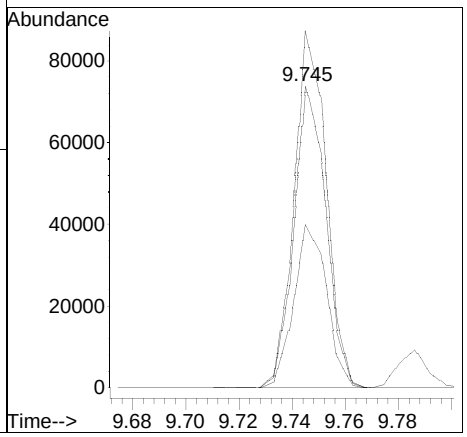


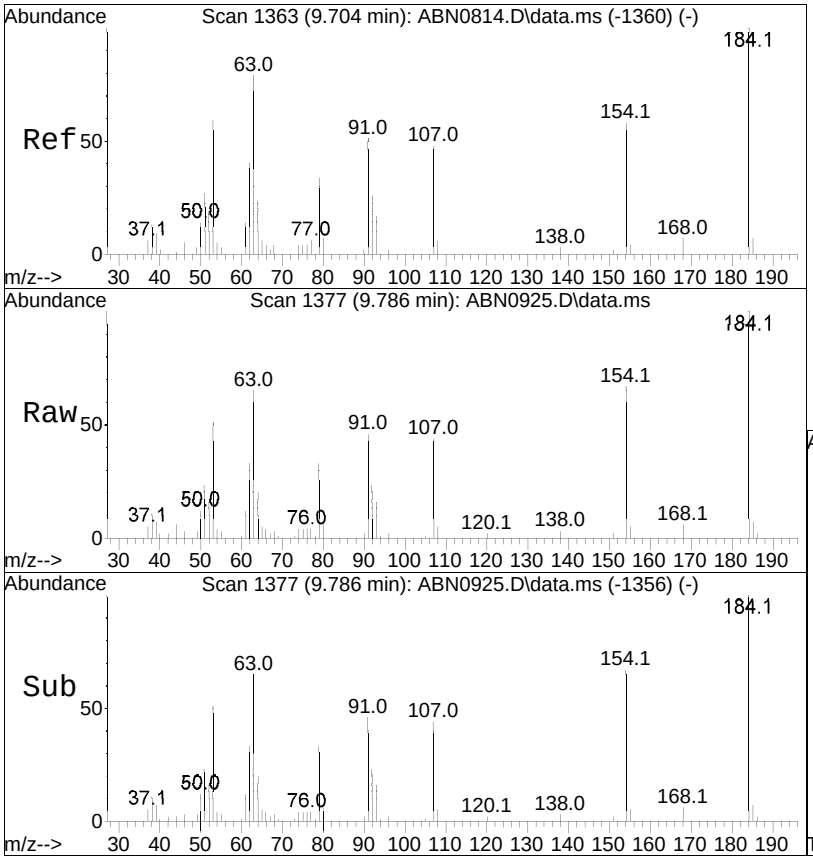


#65
Acenaphthene
Concen: 4.76 ug/ml
RT: 9.745 min Scan# 1370
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:154 Resp: 61733

Ion	Ratio	Lower	Upper
154	100		
153	119.0	85.3	127.9
152	55.8	41.4	62.0

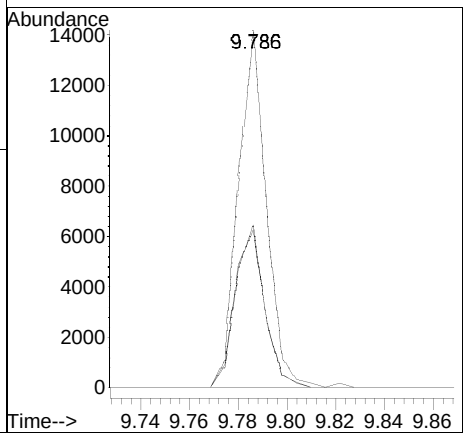


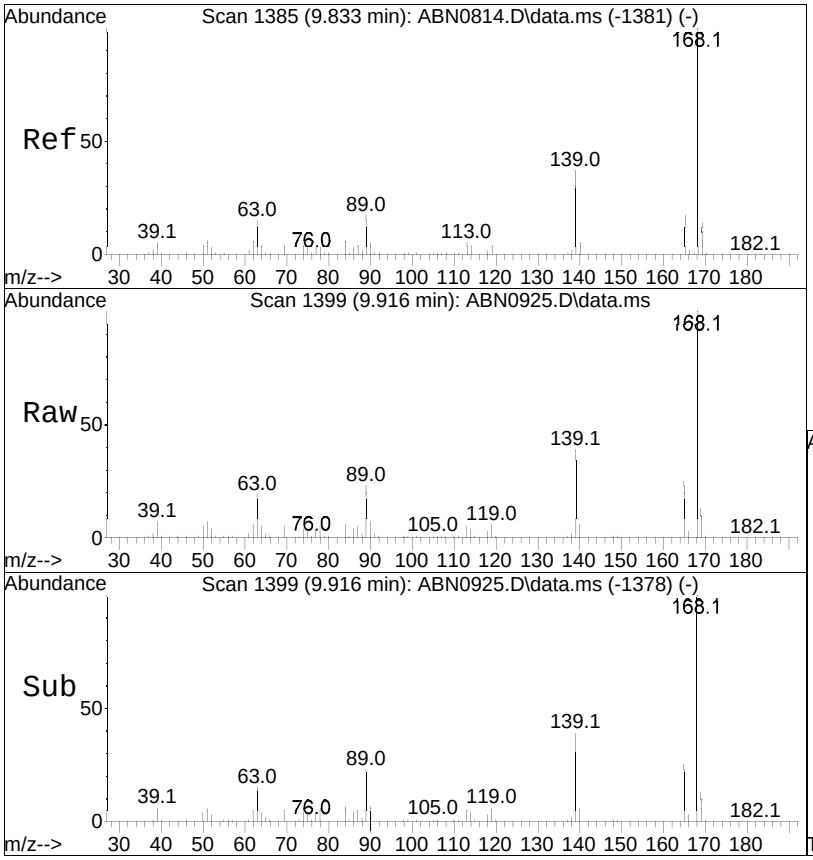


#66
2,4-Dinitrophenol
Concen: 5.31 ug/ml
RT: 9.786 min Scan# 1377
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:184 Resp: 11286

Ion	Ratio	Lower	Upper
184	100		
107	47.5	37.7	56.5
91	47.1	46.3	69.5

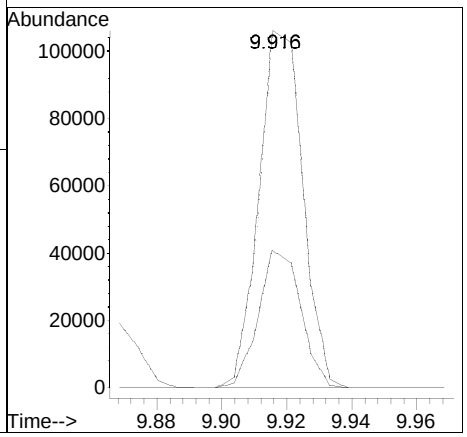


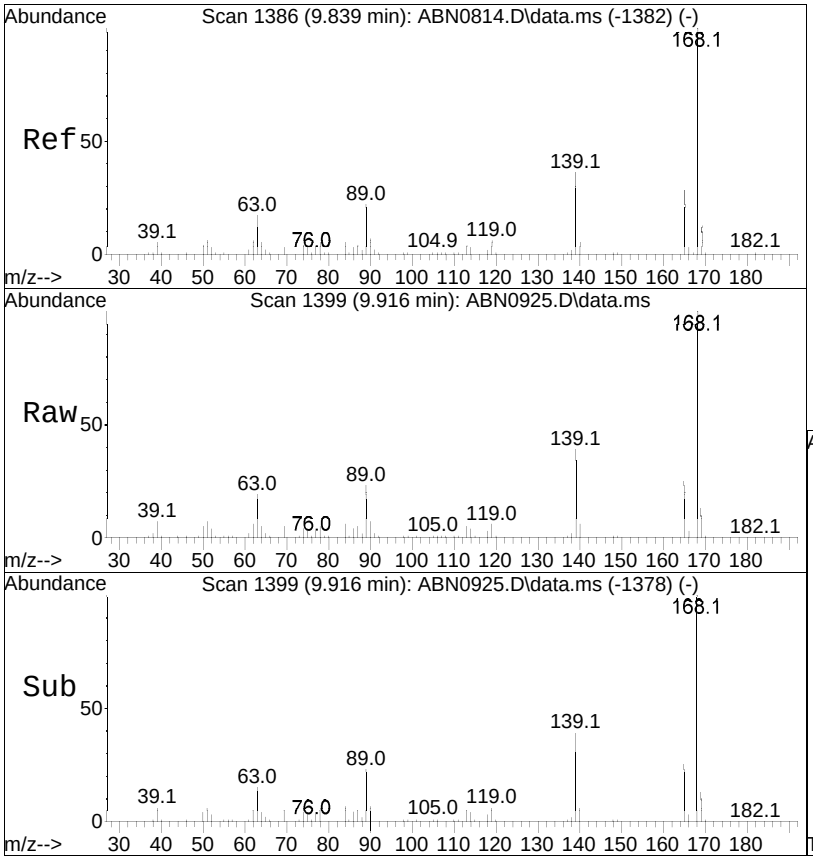


#67
Dibenzofuran
Concen: 4.61 ug/ml
RT: 9.916 min Scan# 1399
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:168 Resp: 98813

Ion	Ratio	Lower	Upper
168	100		
139	37.5	31.4	47.2

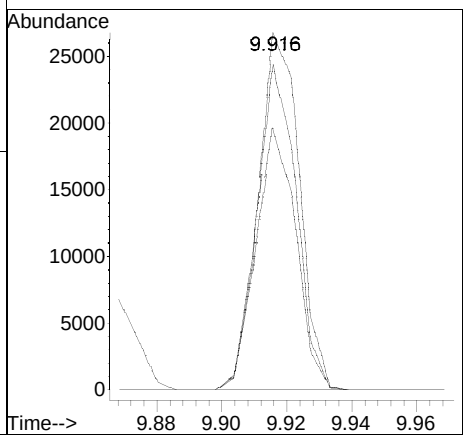


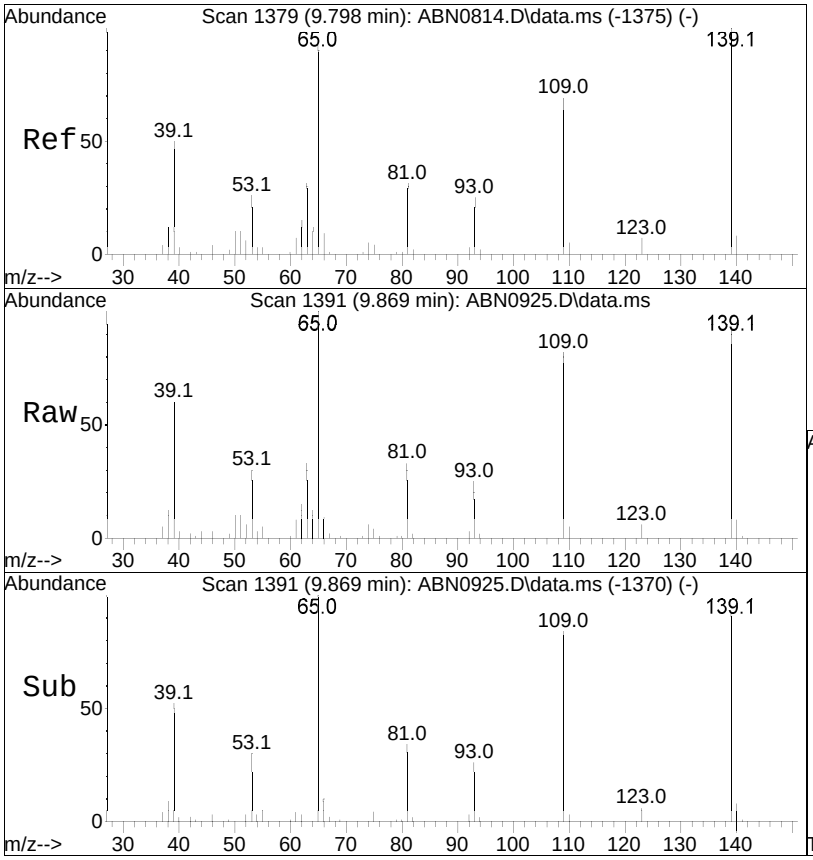


#68
2,4-Dinitrotoluene
Concen: 5.02 ug/ml
RT: 9.916 min Scan# 1399
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:165 Resp: 23379

Ion	Ratio	Lower	Upper
165	100		
89	86.9	72.0	108.0
63	71.5	52.7	79.1

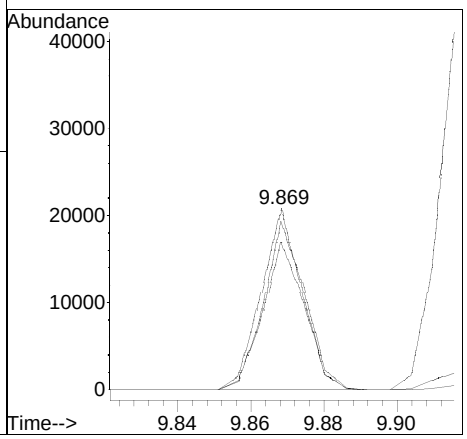


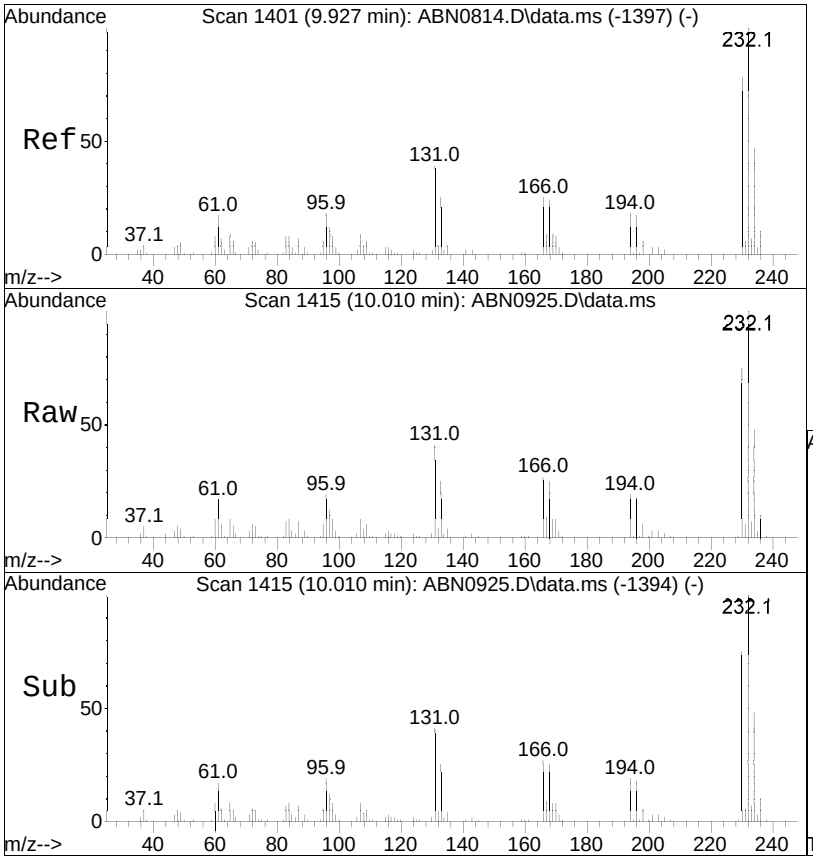


#69
4-Nitrophenol
Concen: 5.58 ug/ml
RT: 9.869 min Scan# 1391
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 65 Resp: 16118

Ion	Ratio	Lower	Upper
65	100		
109	83.2	47.4	71.2#
139	93.7	76.6	115.0

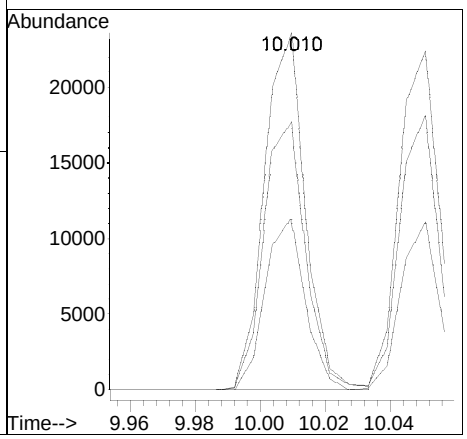


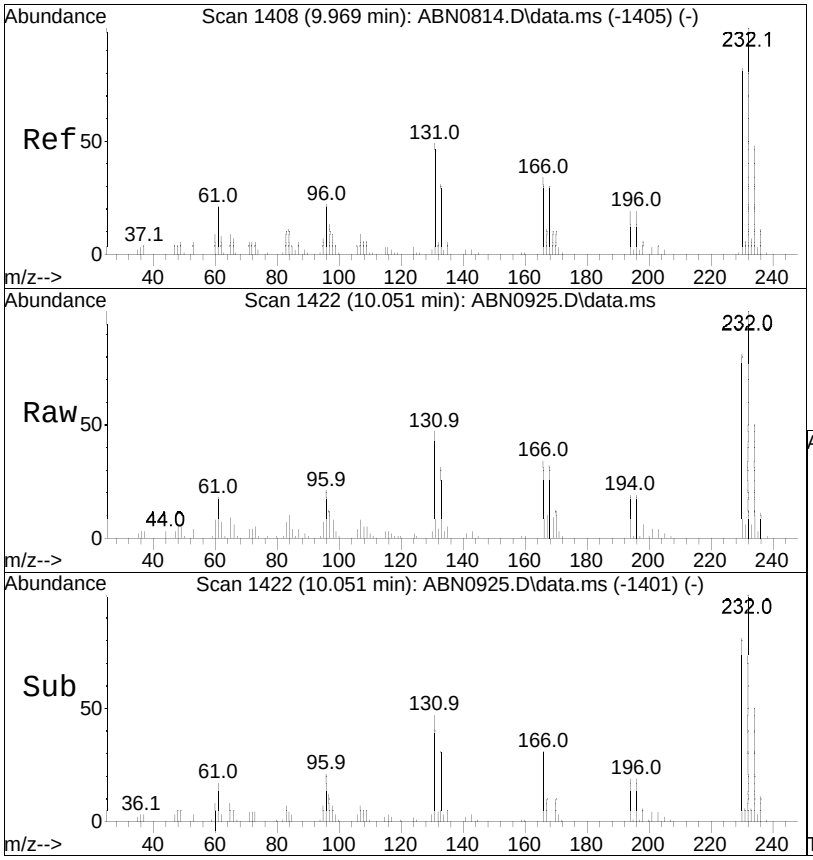


#70
2,3,5,6-Tetrachlorophenol
Concen: 5.32 ug/ml
RT: 10.010 min Scan# 1415
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:232 Resp: 20708

Ion	Ratio	Lower	Upper
232	100		
230	77.2	64.2	96.4
234	46.9	38.1	57.1

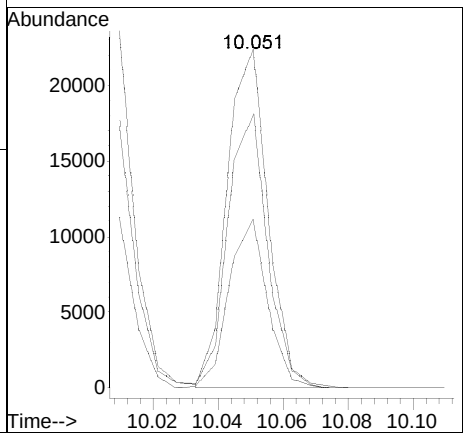


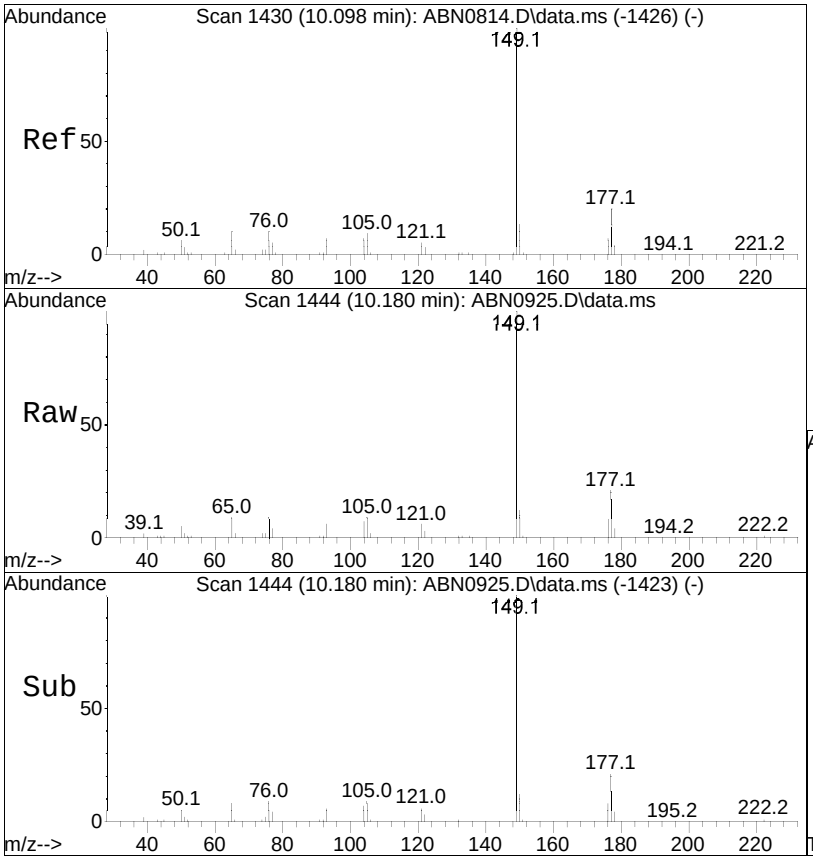


#71
2,3,4,6-Tetrachlorophenol
Concen: 5.28 ug/ml
RT: 10.051 min Scan# 1422
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:232 Resp: 19589

Ion	Ratio	Lower	Upper
232	100		
230	78.5	61.8	92.8
234	47.2	36.2	54.2

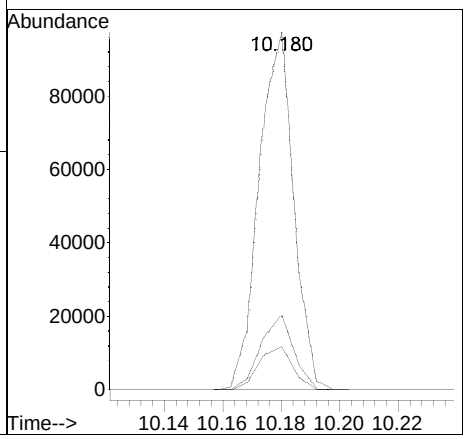


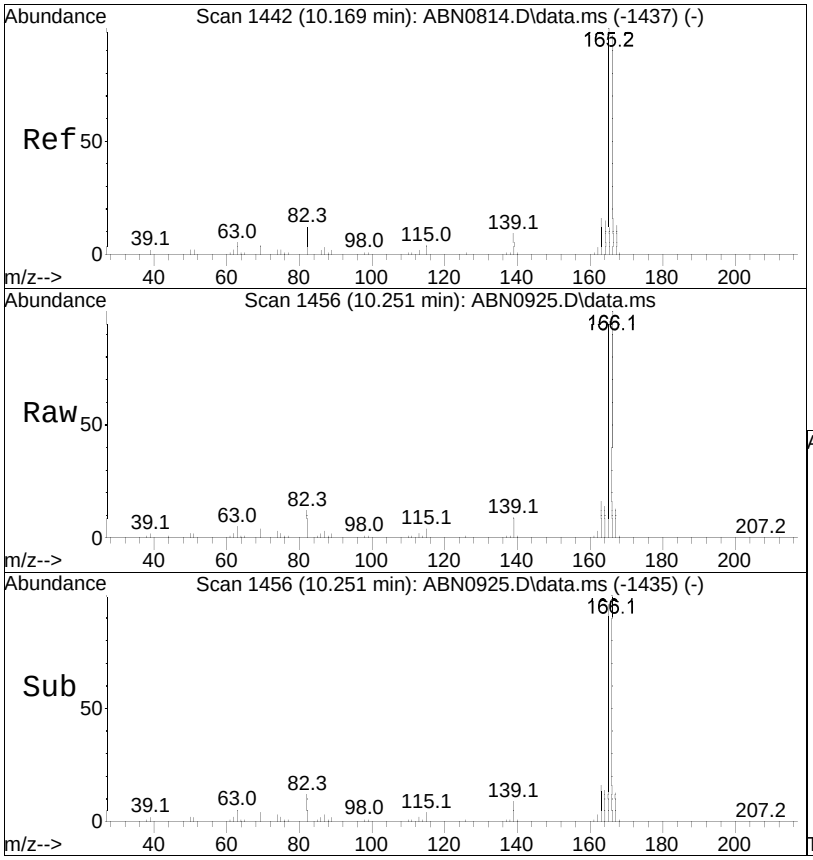


#72
Diethyl phthalate
Concen: 5.23 ug/ml
RT: 10.180 min Scan# 1444
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:149 Resp: 79178

Ion	Ratio	Lower	Upper
149	100		
177	20.2	16.1	24.1
150	12.2	9.4	14.2

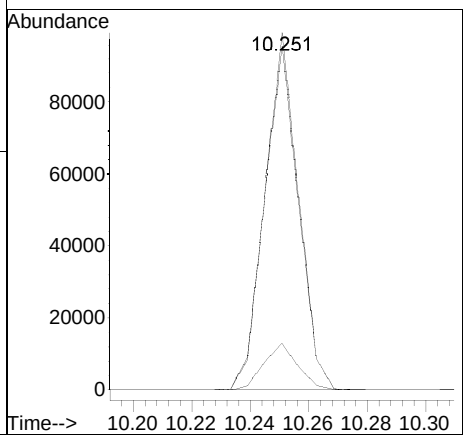


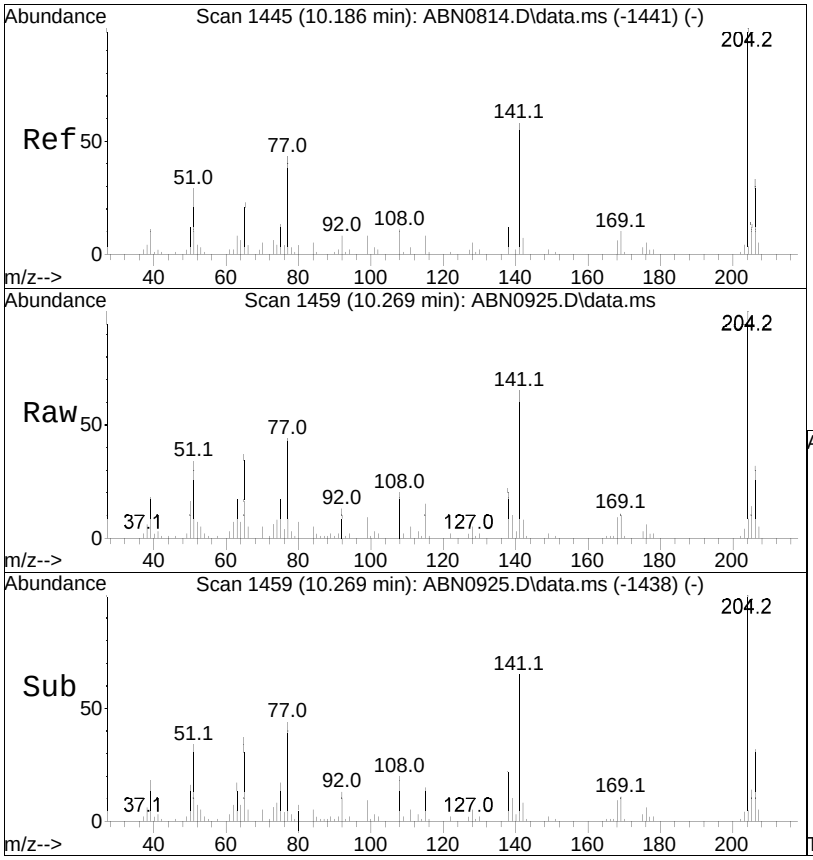


#73
Fluorene
Concen: 4.93 ug/ml
RT: 10.251 min Scan# 1456
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:166 Resp: 79042

Ion	Ratio	Lower	Upper
166	100		
165	97.0	76.2	114.2
167	13.5	10.6	15.8

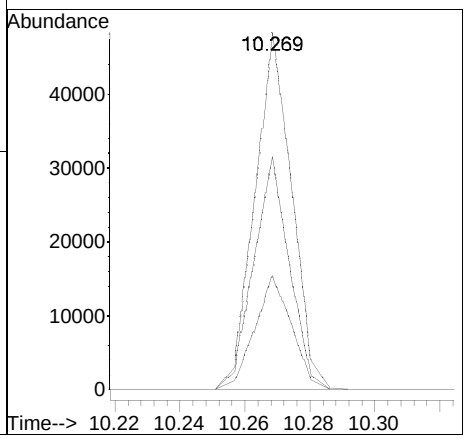


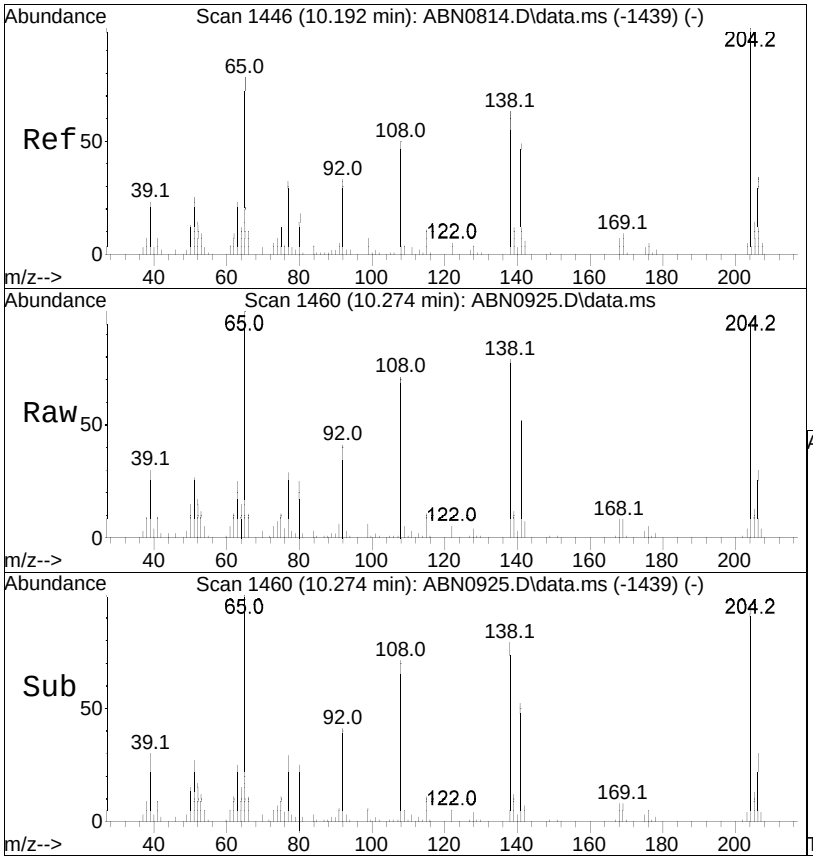


#74
4-Chlorophenyl phenyl ether
Concen: 4.62 ug/ml
RT: 10.269 min Scan# 1459
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:204 Resp: 37600

Ion	Ratio	Lower	Upper
204	100		
206	32.1	25.8	38.6
141	63.3	53.6	80.4

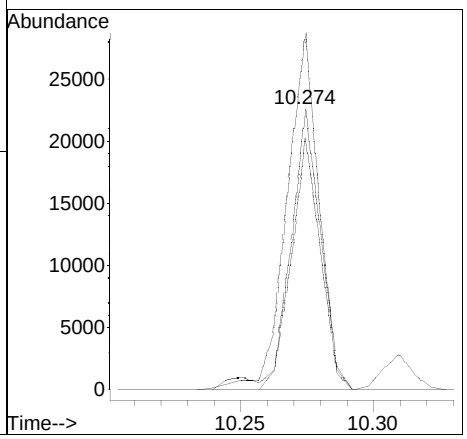


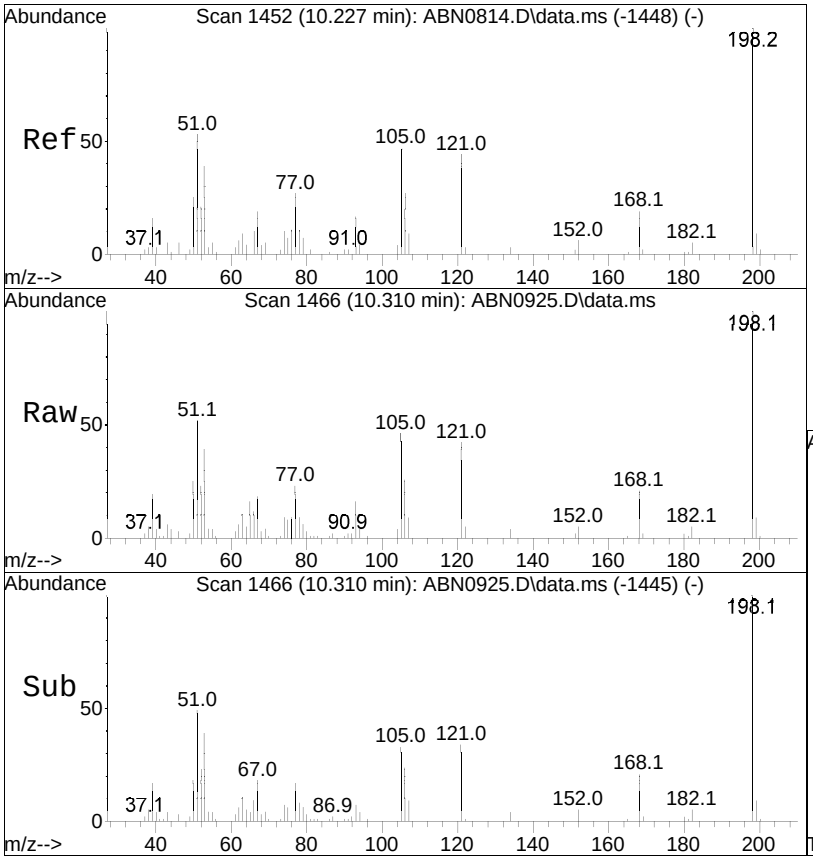


#75
4-Nitroaniline
Concen: 4.94 ug/ml
RT: 10.274 min Scan# 1460
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:138 Resp: 18059

Ion	Ratio	Lower	Upper
138	100		
108	84.6	52.1	78.1#
65	133.2	115.0	172.6

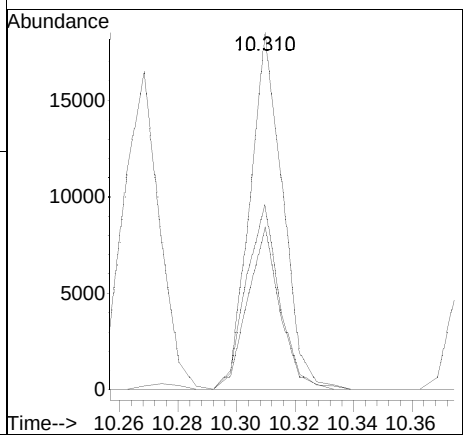


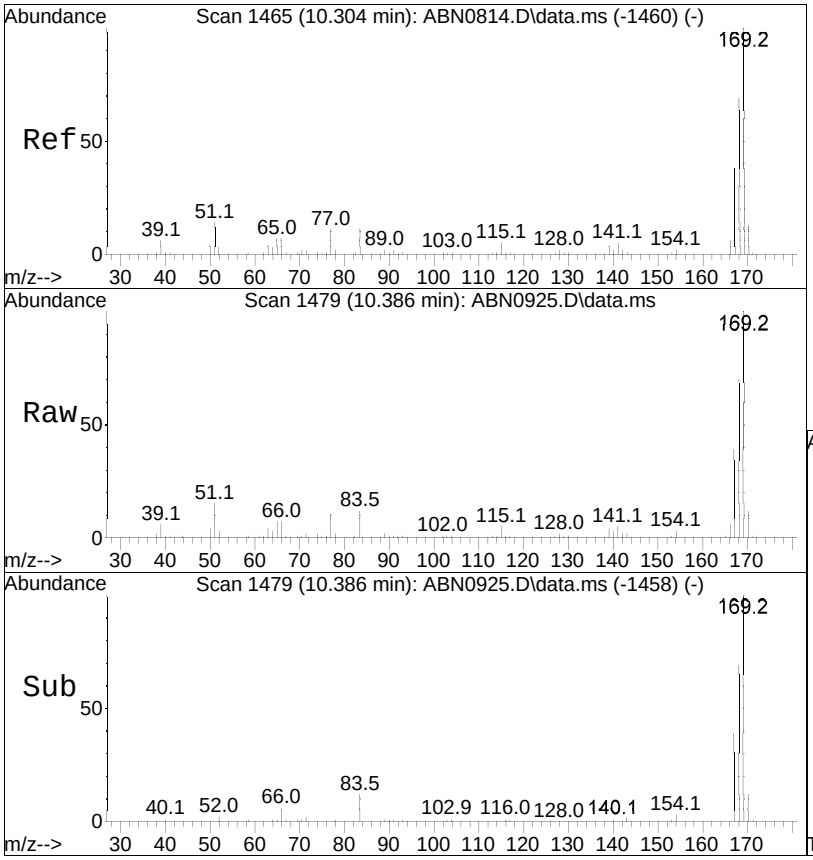


#76
4,6-Dinitro-o-cresol
Concen: 5.06 ug/ml
RT: 10.310 min Scan# 1466
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:198 Resp: 14482

Ion	Ratio	Lower	Upper
198	100		
51	53.1	76.0	114.0#
105	44.7	45.6	68.4#

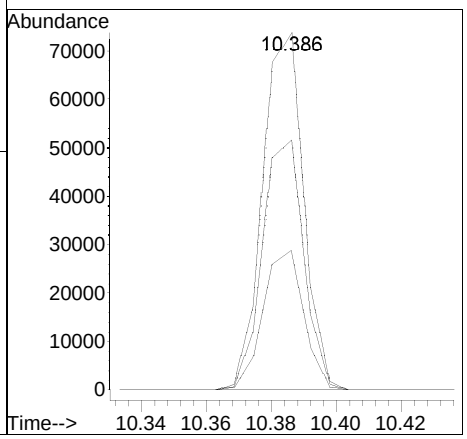


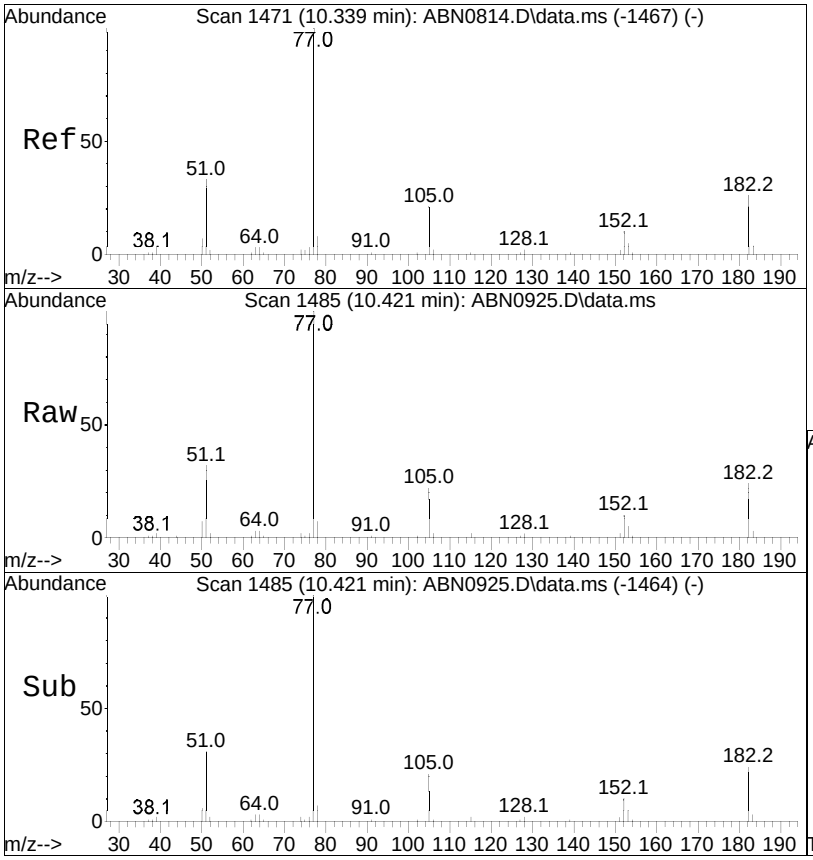


#77
NDPA/DPA
Concen: 4.85 ug/ml
RT: 10.386 min Scan# 1479
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:169 Resp: 64554

Ion	Ratio	Lower	Upper
169	100		
168	70.6	54.0	81.0
167	39.0	28.6	42.8

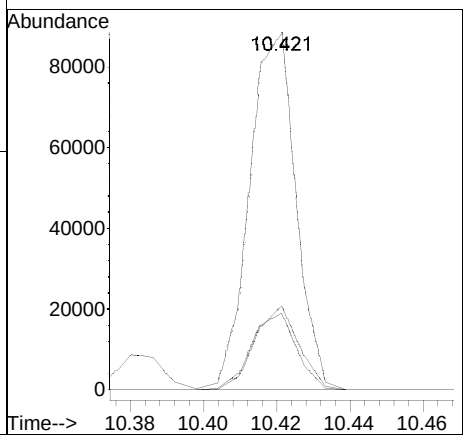


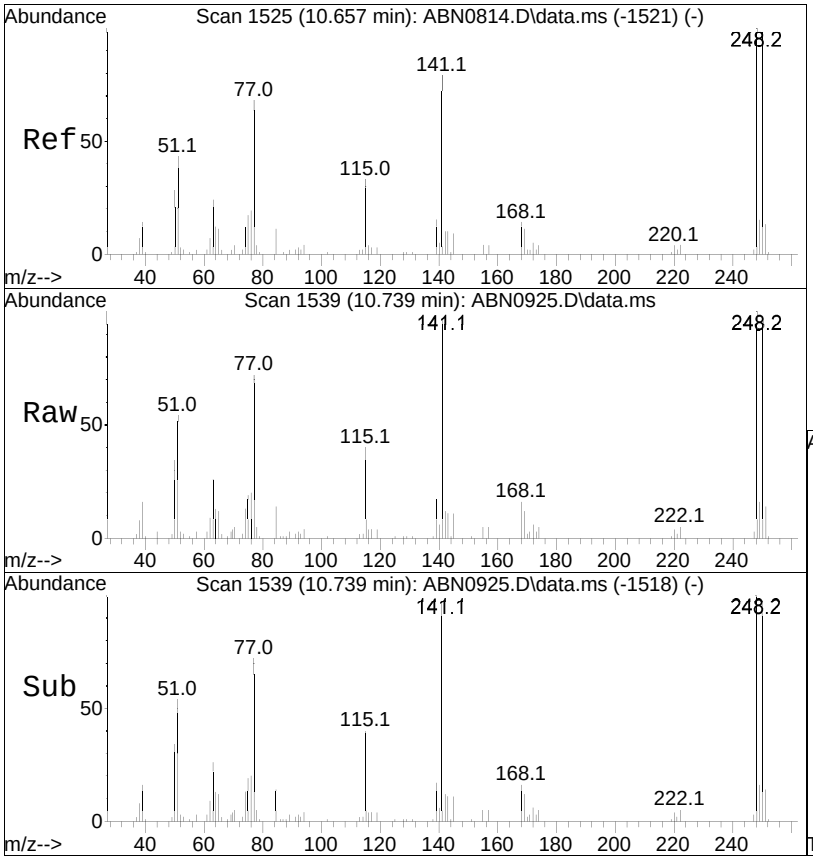


#78
Azobenzene
Concen: 5.52 ug/ml
RT: 10.421 min Scan# 1485
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion: 77 Resp: 77236

Ion	Ratio	Lower	Upper
77	100		
182	22.5	17.4	26.2
105	21.1	15.4	23.2

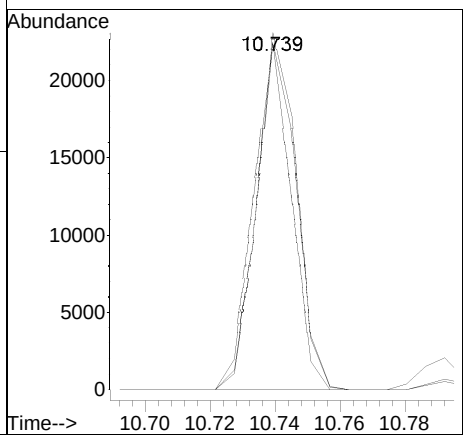


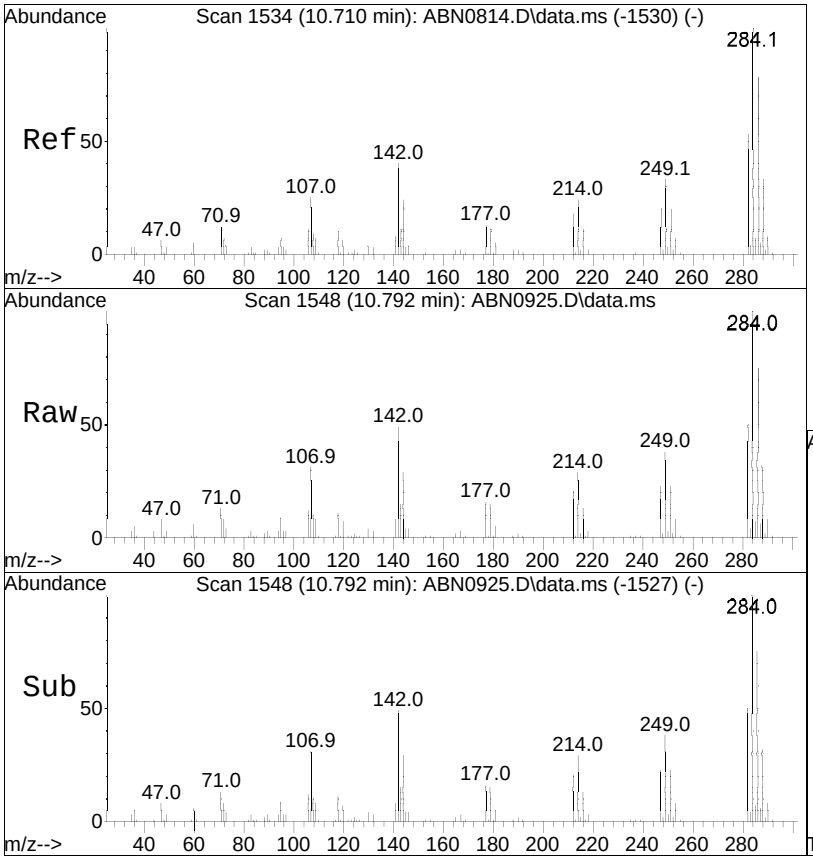


#80
4-Bromophenyl phenyl ether
Concen: 4.40 ug/ml
RT: 10.739 min Scan# 1539
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:248 Resp: 19335

Ion	Ratio	Lower	Upper
248	100		
141	92.9	76.6	114.8
250	97.9	77.3	115.9

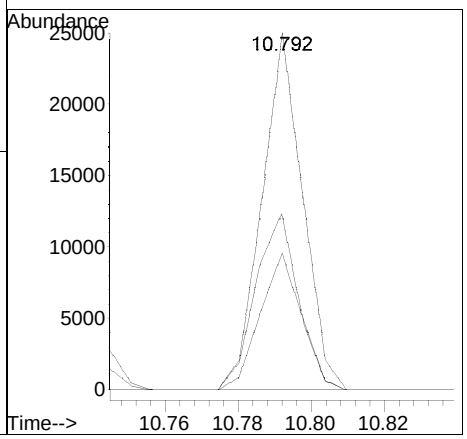


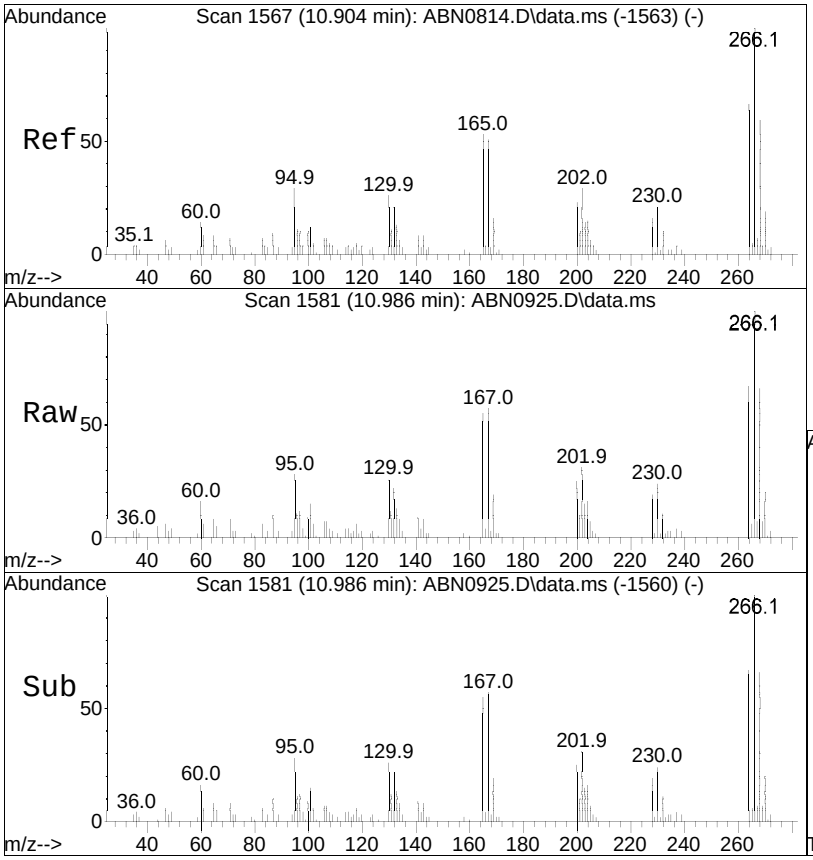


#81
Hexachlorobenzene
Concen: 3.97 ug/ml
RT: 10.792 min Scan# 1548
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:284 Resp: 19244

Ion	Ratio	Lower	Upper
284	100		
142	52.0	41.9	62.9
249	39.2	24.1	36.1#

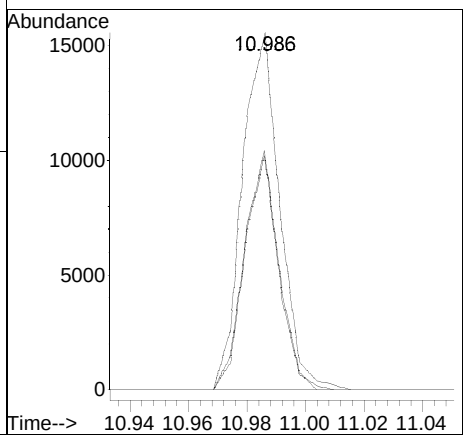


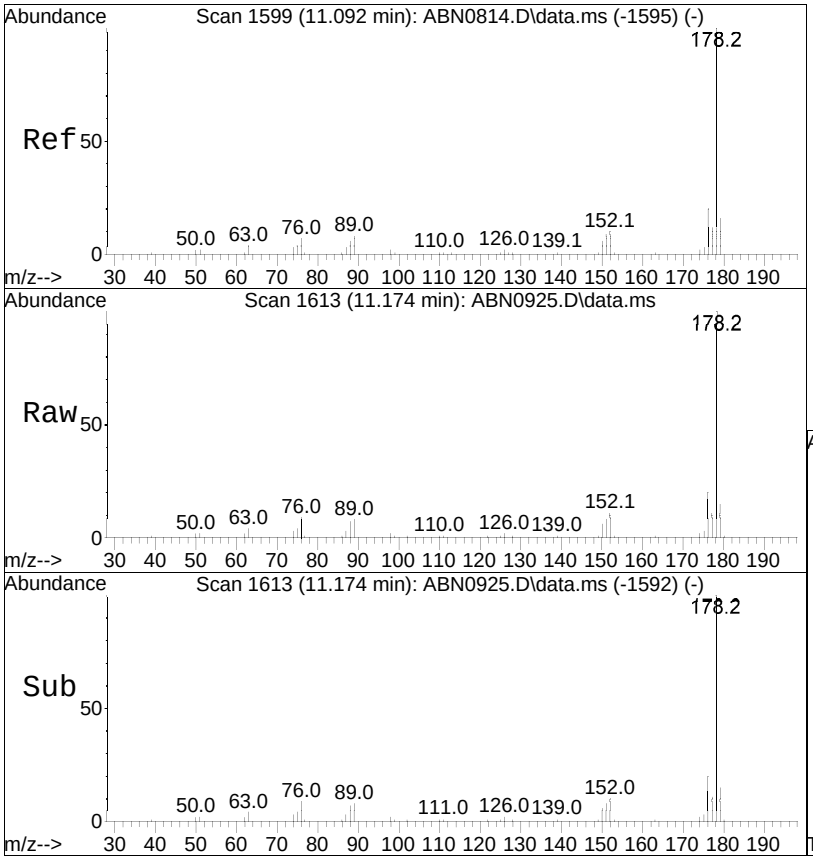


#82
Pentachlorophenol
Concen: 4.23 ug/ml
RT: 10.986 min Scan# 1581
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:266 Resp: 13766

Ion	Ratio	Lower	Upper
266	100		
264	61.7	49.7	74.5
268	59.3	50.5	75.7

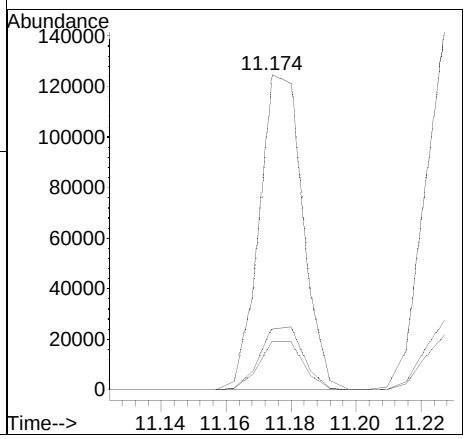


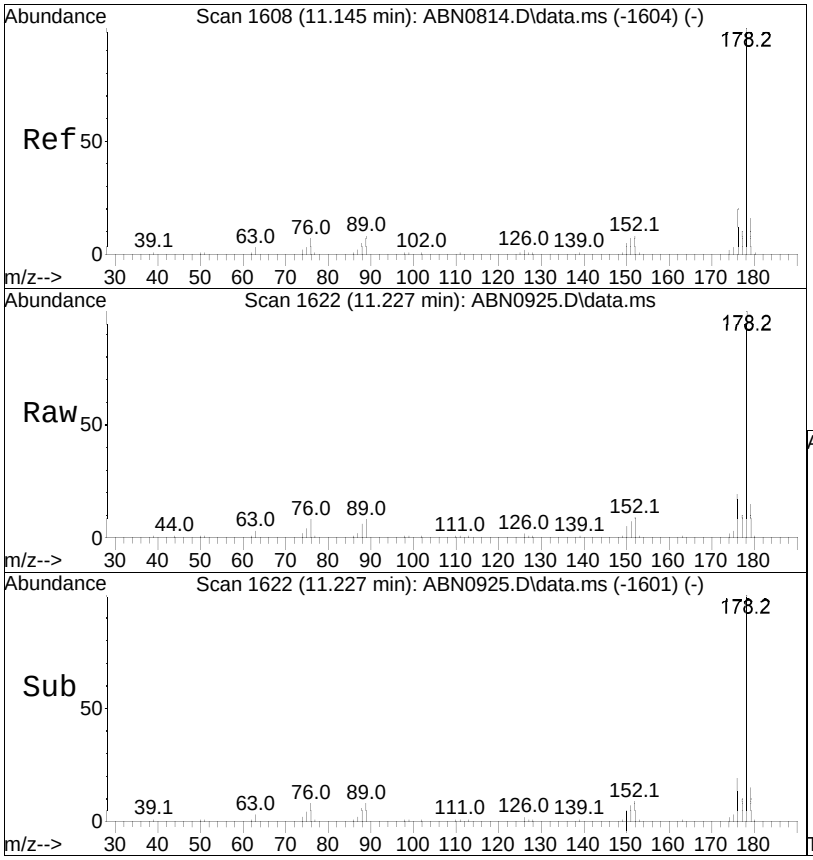


#89
Phenanthrene
Concen: 4.79 ug/ml
RT: 11.174 min Scan# 1613
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:178 Resp: 116213

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.2
176	20.1	15.4	23.2

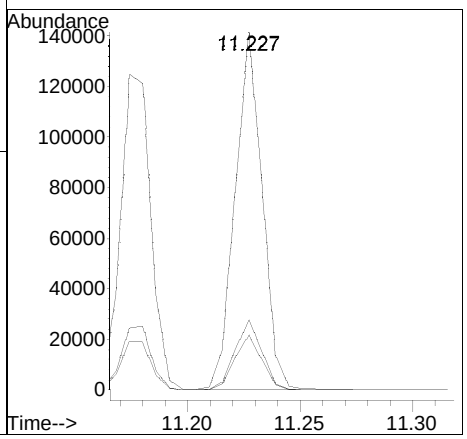


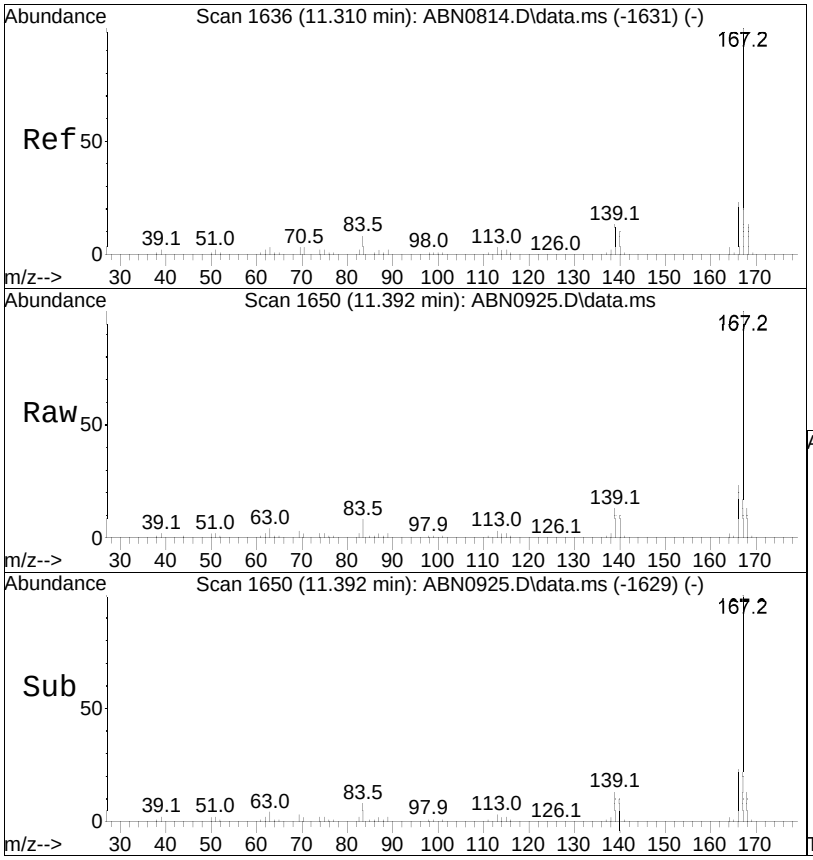


#90
Anthracene
Concen: 5.15 ug/ml
RT: 11.227 min Scan# 1622
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:178 Resp: 118334

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	19.4	14.6	22.0

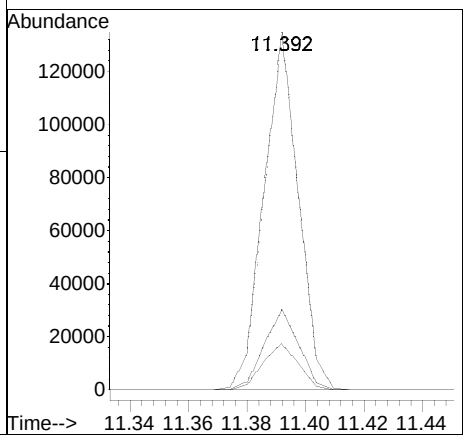


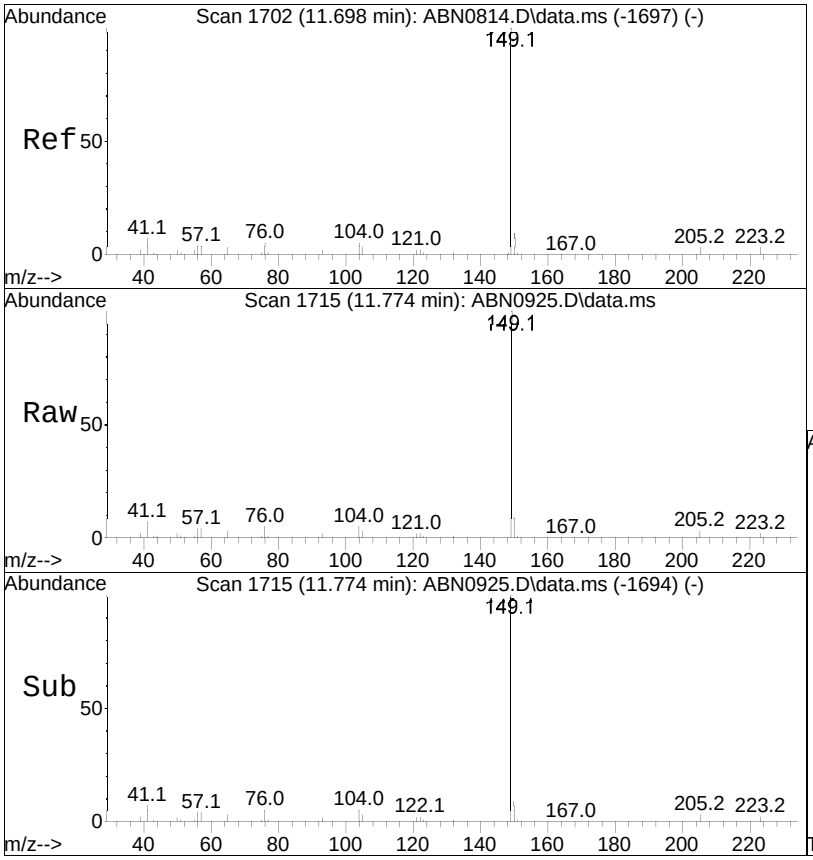


#91
Carbazole
Concen: 5.20 ug/ml
RT: 11.392 min Scan# 1650
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:167 Resp: 108903

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	22.9	17.4	26.0

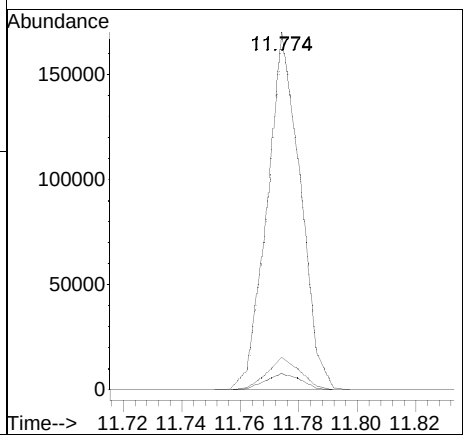


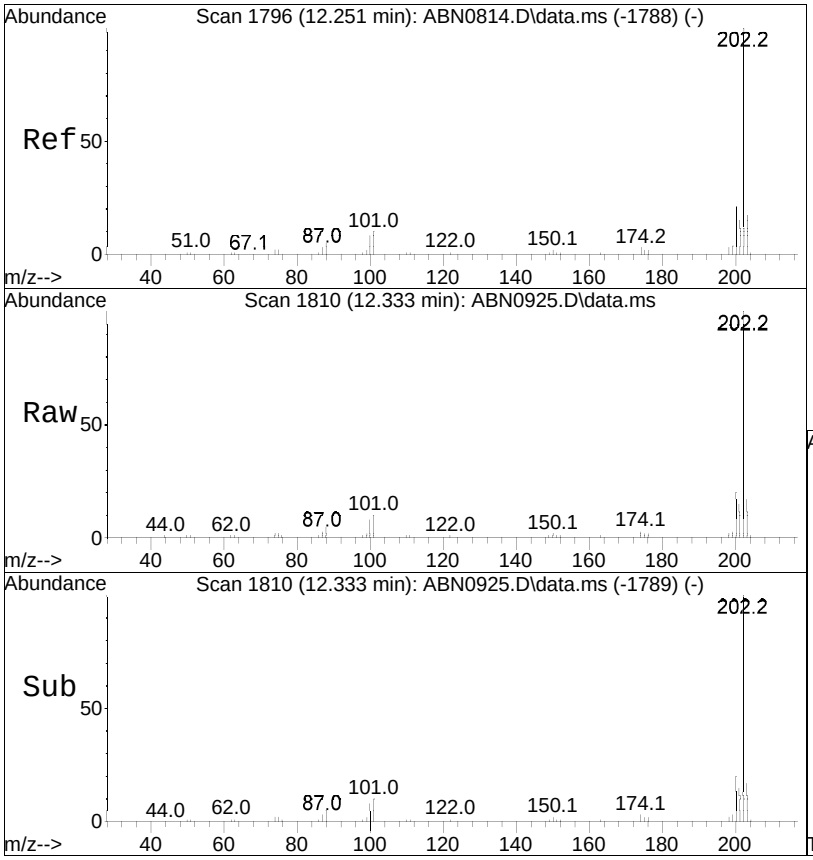


#92
Di-n-butylphthalate
Concen: 5.73 ug/ml
RT: 11.774 min Scan# 1715
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:149 Resp: 132256

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	5.0	4.5	6.7

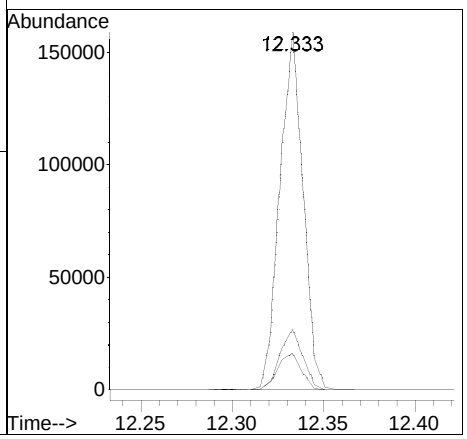


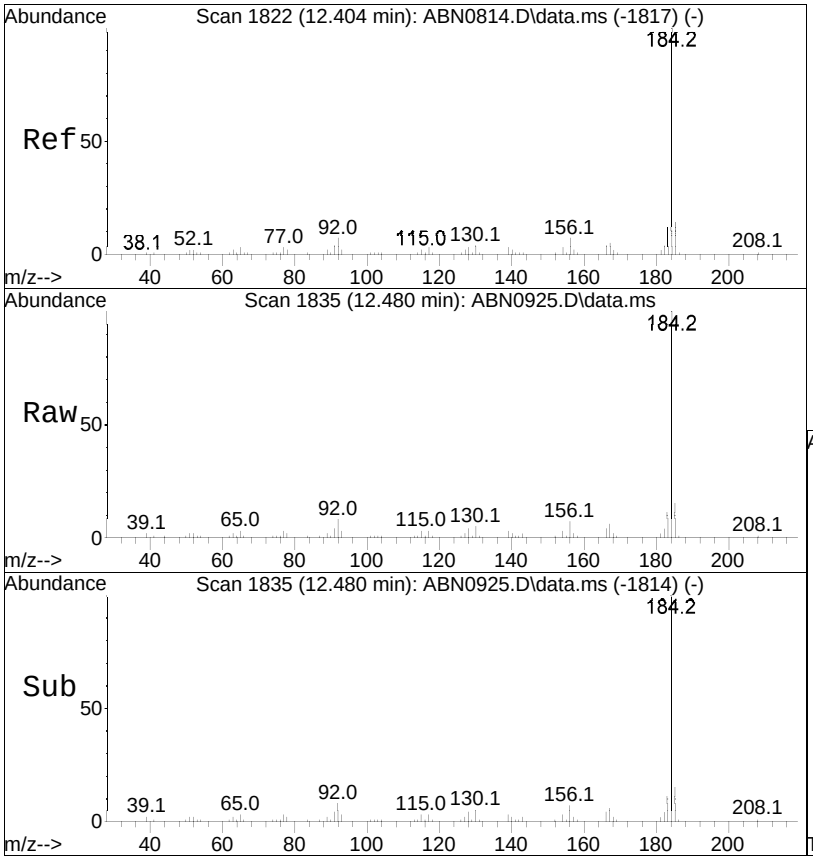


#93
Fluoranthene
Concen: 5.18 ug/ml
RT: 12.333 min Scan# 1810
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:202 Resp: 137804

Ion	Ratio	Lower	Upper
202	100		
101	10.6	13.5	20.3#
203	17.0	13.6	20.4

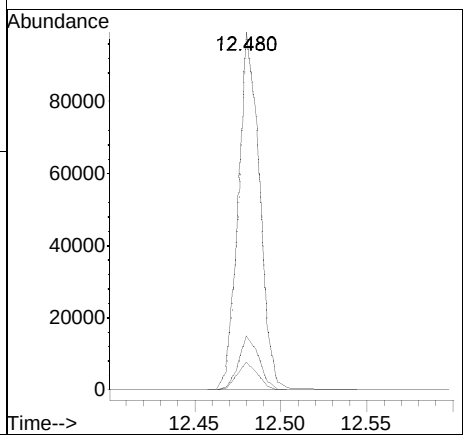


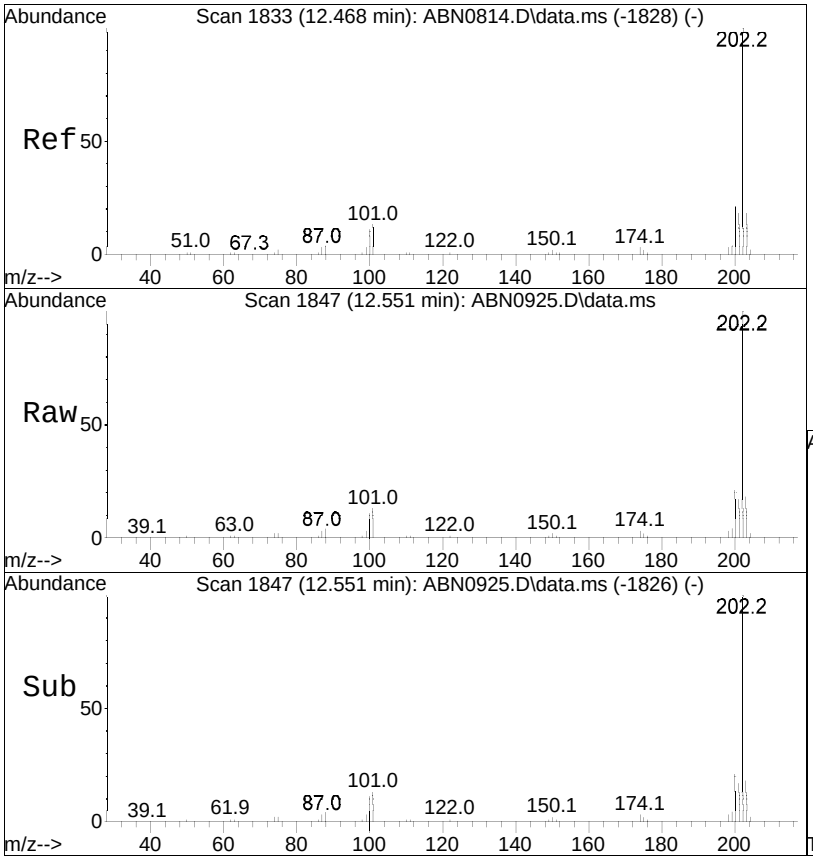


#94
Benzidine
Concen: 5.34 ug/ml
RT: 12.480 min Scan# 1835
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:184 Resp: 84221

Ion	Ratio	Lower	Upper
184	100		
92	7.6	9.1	13.7#
185	14.6	11.1	16.7

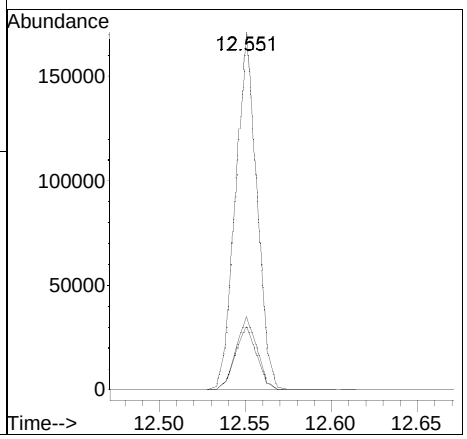


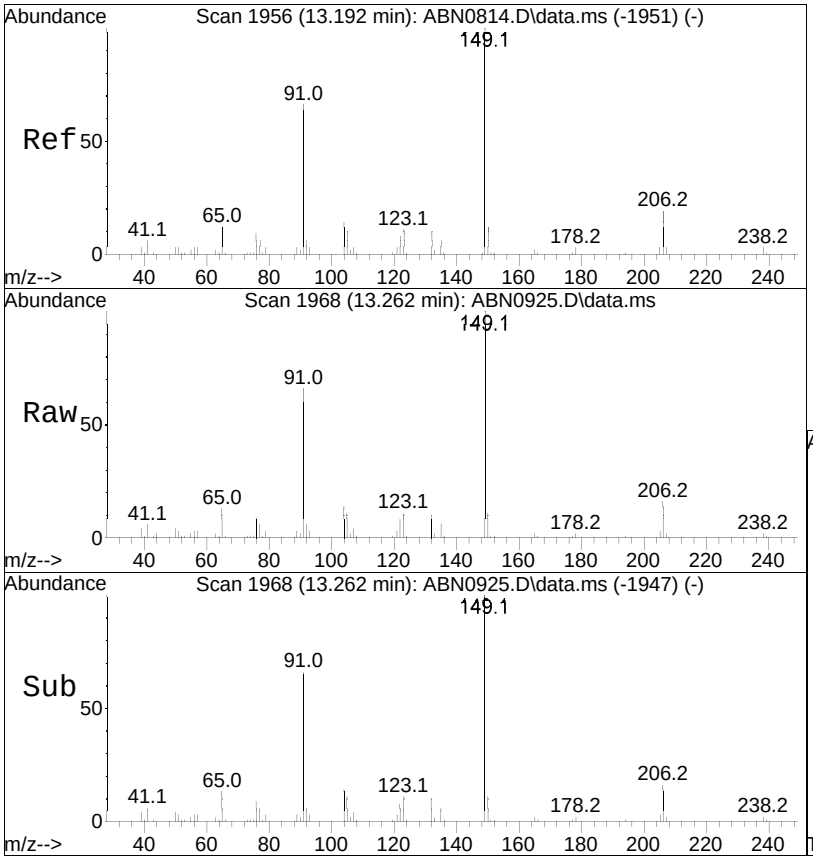


#95
Pyrene
Concen: 5.03 ug/ml
RT: 12.551 min Scan# 1847
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:202 Resp: 145640

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.7	25.1
203	17.9	14.2	21.4

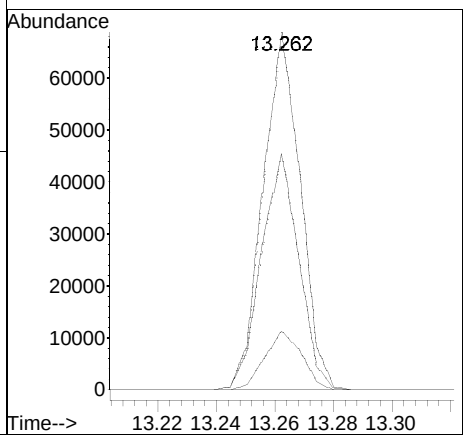


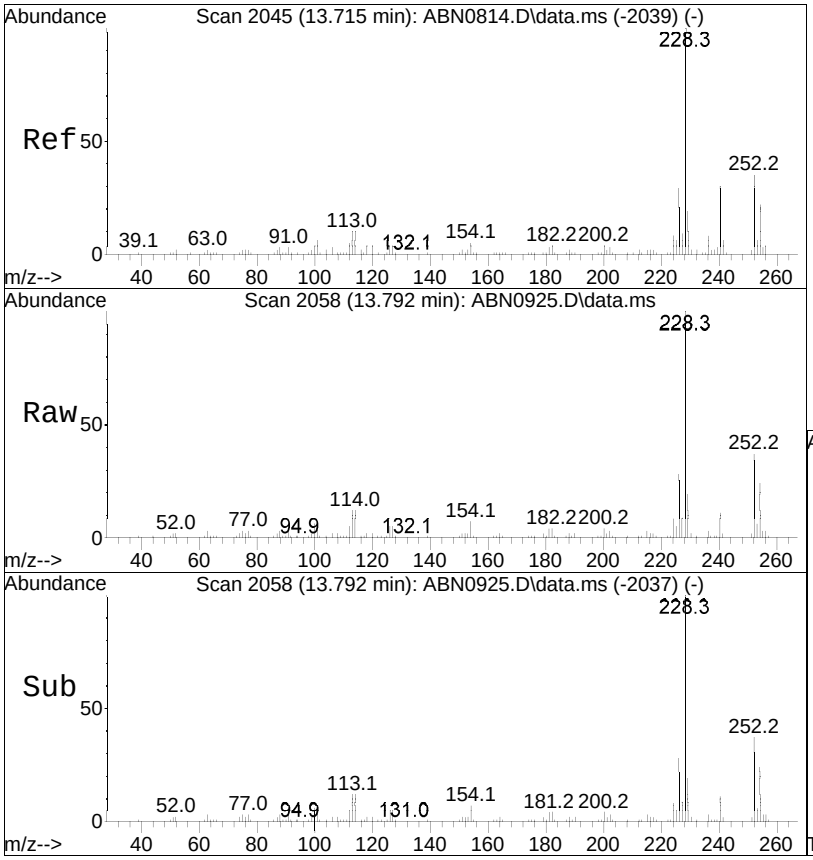


#97
Butyl benzyl phthalate
Concen: 5.04 ug/ml
RT: 13.262 min Scan# 1968
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:149 Resp: 60516

Ion	Ratio	Lower	Upper
149	100		
91	66.1	63.3	94.9
206	16.4	13.9	20.9

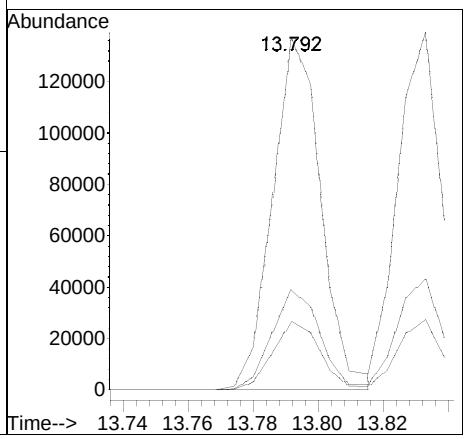


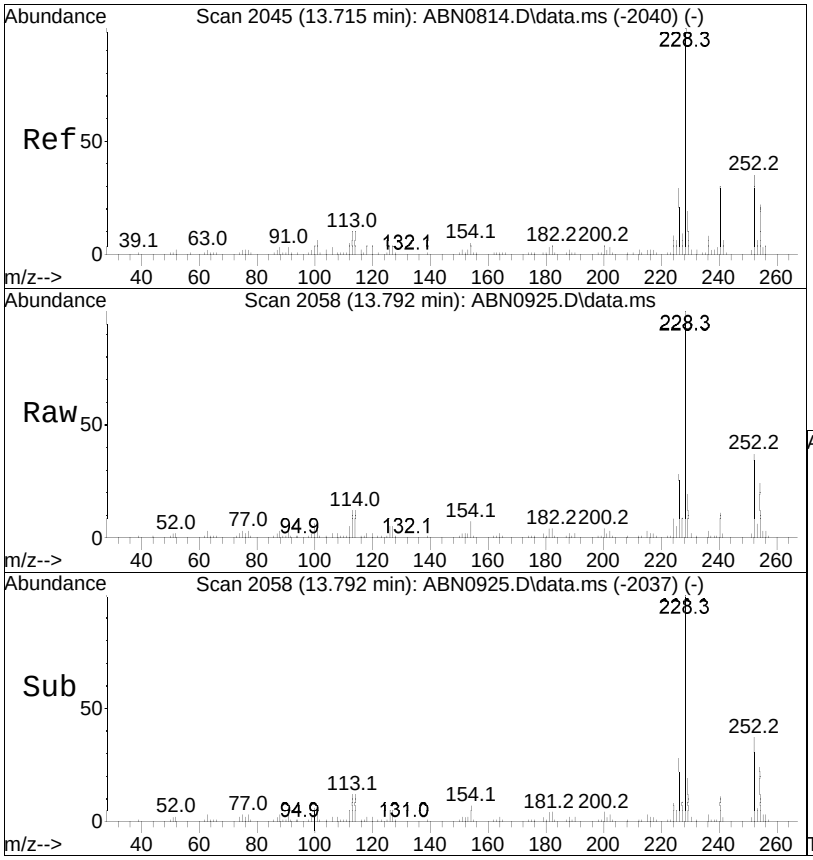


#105
Benzo(a)anthracene
Concen: 4.70 ug/ml
RT: 13.792 min Scan# 2058
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:228 Resp: 141332

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.2	33.4
229	19.4	15.6	23.4

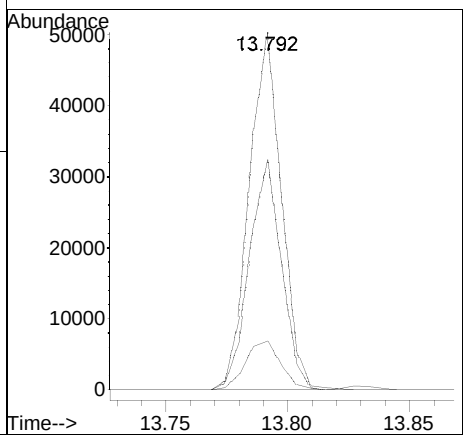


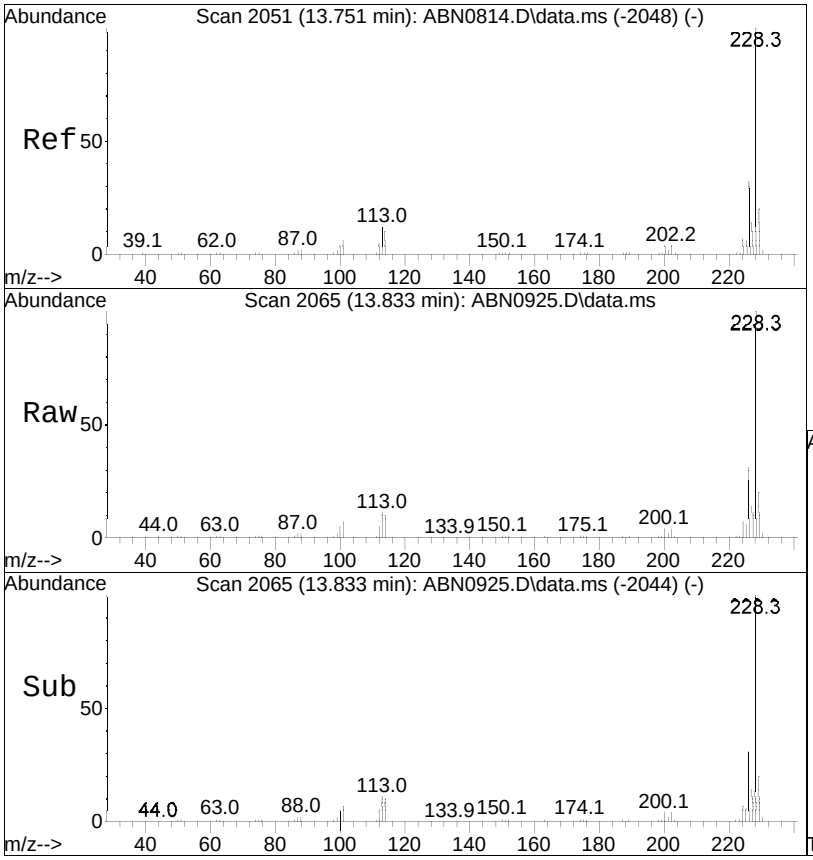


#106
3,3'-Dichlorobenzidine
Concen: 4.27 ug/ml
RT: 13.792 min Scan# 2058
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:252 Resp: 46012

Ion	Ratio	Lower	Upper
252	100		
126	15.2	14.5	21.7
254	64.2	51.2	76.8

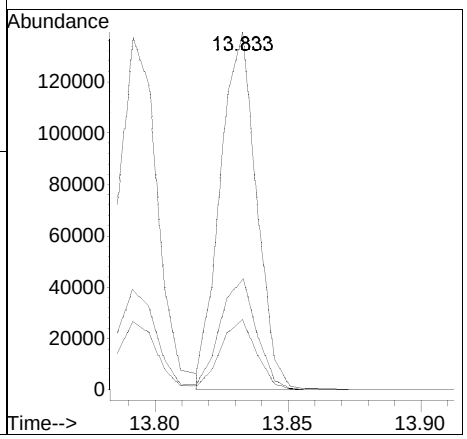


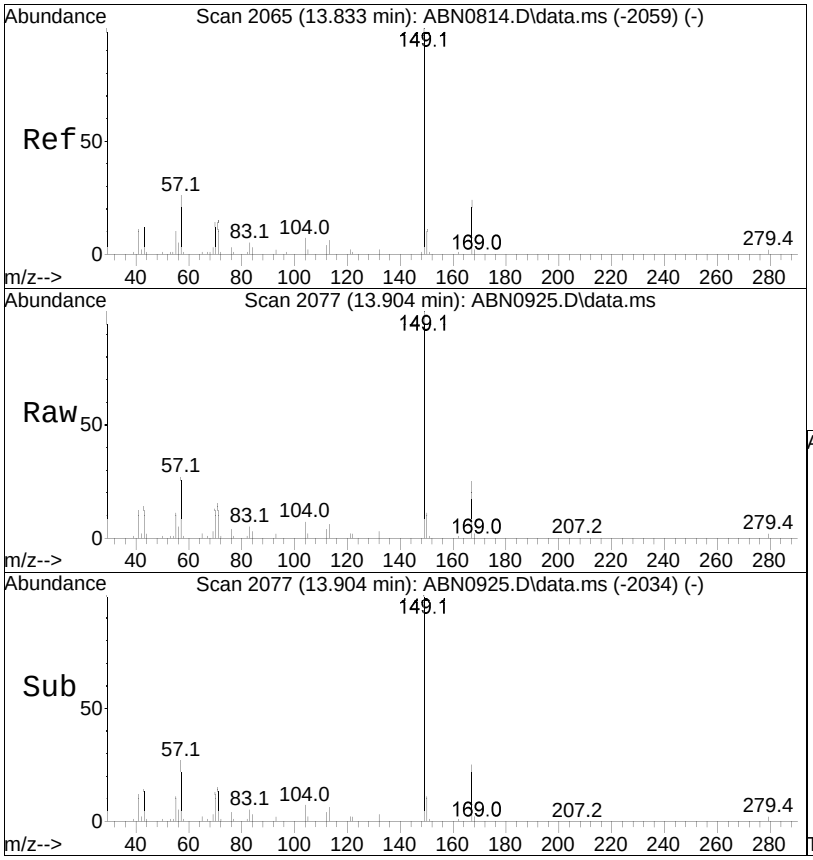


#107
Chrysene
Concen: 4.53 ug/ml
RT: 13.833 min Scan# 2065
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:228 Resp: 131660

Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.0	36.0
229	19.4	15.8	23.8

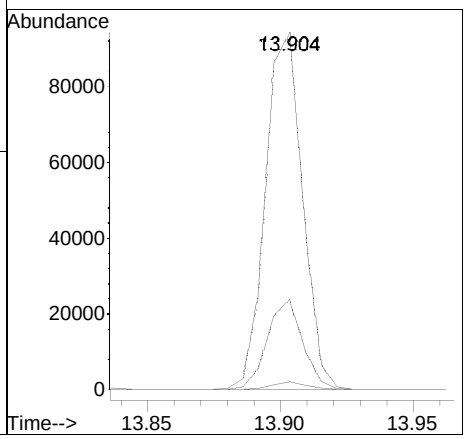


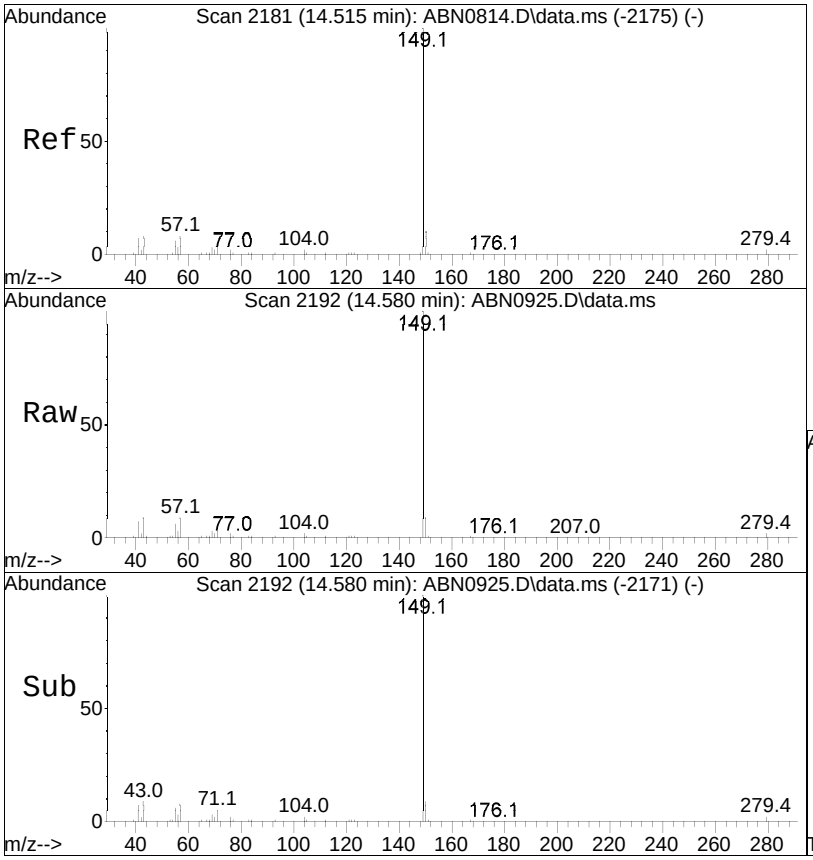


#108
Bis(2-ethylhexyl)phthalate
Concen: 5.54 ug/ml
RT: 13.904 min Scan# 2077
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:149 Resp: 90387

Ion	Ratio	Lower	Upper
149	100		
167	24.2	22.1	33.1
279	1.8	3.0	4.4#

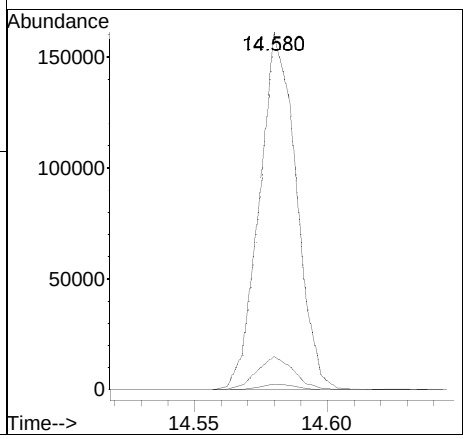


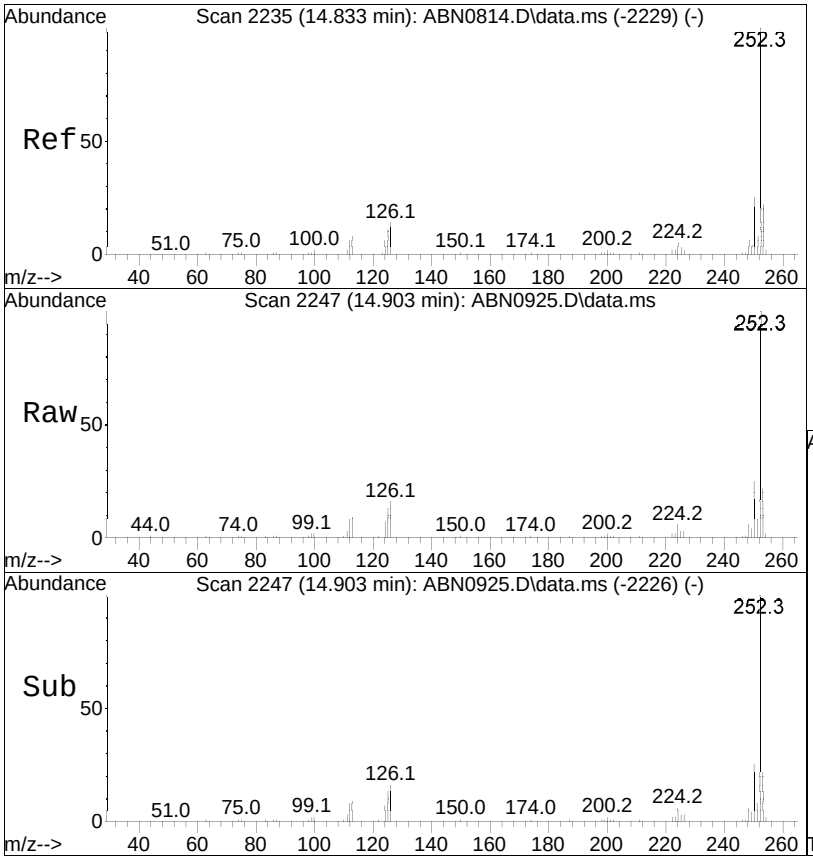


#109
Di-n-octylphthalate
Concen: 5.31 ug/ml
RT: 14.580 min Scan# 2192
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:149 Resp: 153028

Ion	Ratio	Lower	Upper
149	100		
43	9.5	18.8	28.2#
167	1.4	1.3	1.9

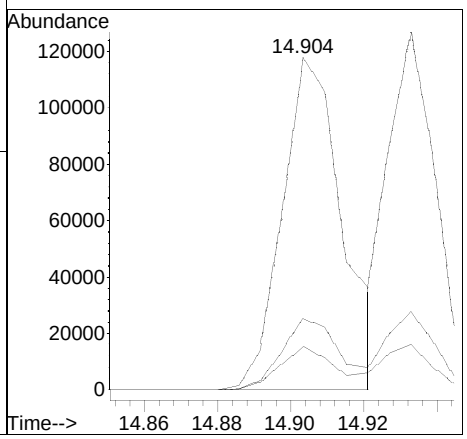


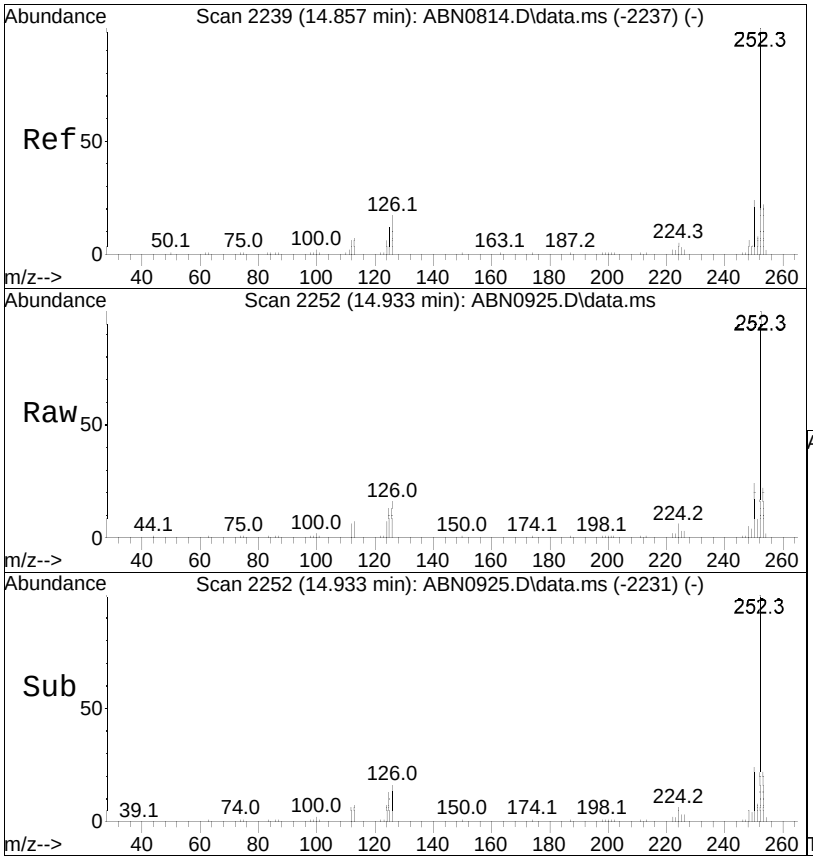


#110
Benzo(b)fluoranthene
Concen: 5.21 ug/ml
RT: 14.903 min Scan# 2247
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:252 Resp: 134884

Ion	Ratio	Lower	Upper
252	100		
125	11.5	13.3	19.9#
253	21.5	17.1	25.7

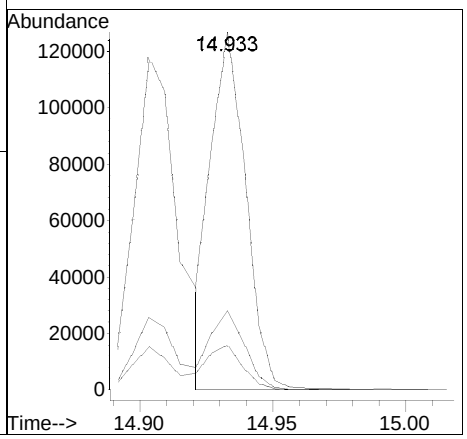


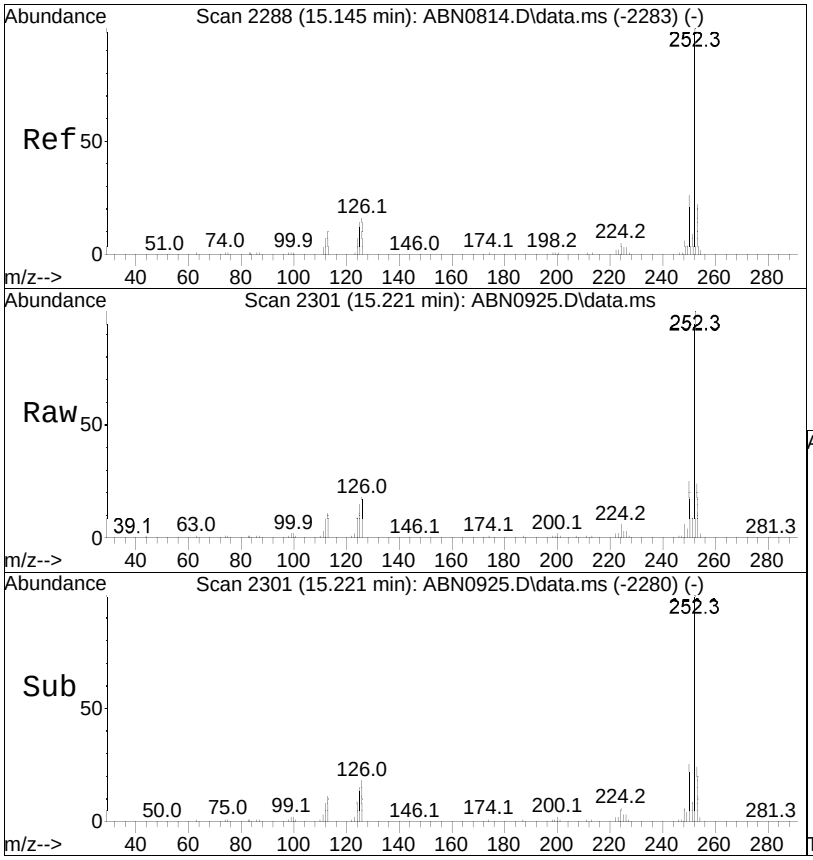


#111
Benzo(k)fluoranthene
Concen: 4.42 ug/ml
RT: 14.933 min Scan# 2252
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:252 Resp: 114628

Ion	Ratio	Lower	Upper
252	100		
125	14.1	13.0	19.6
253	21.9	16.8	25.2

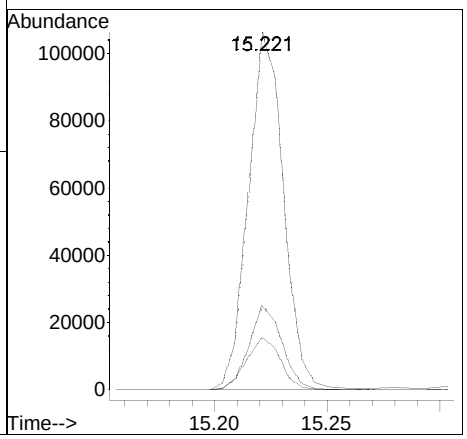


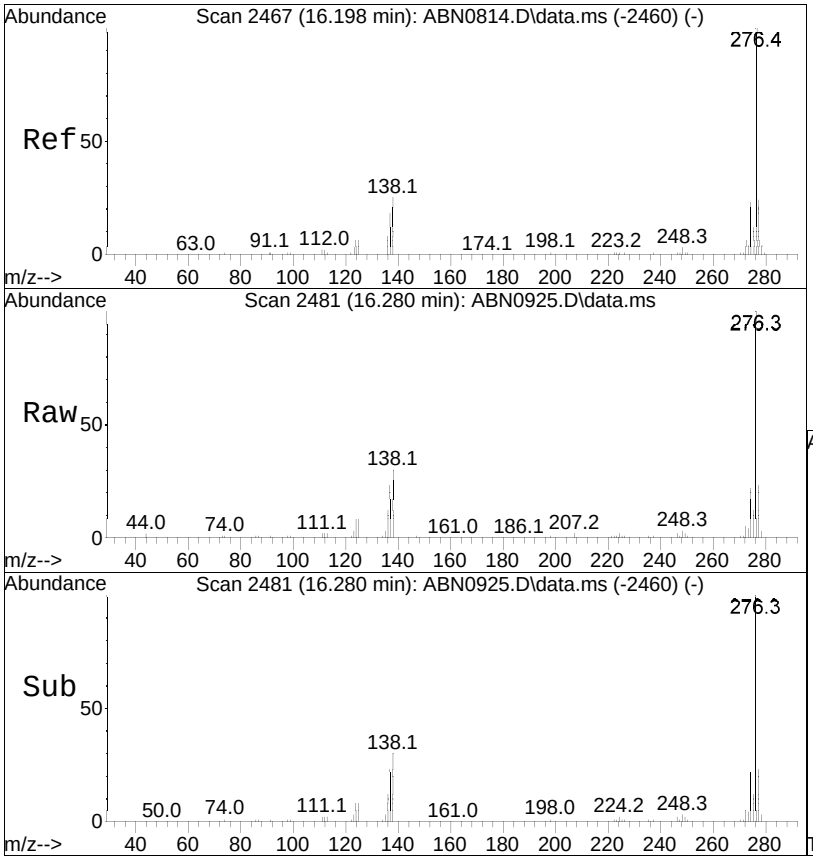


#112
Benzo(a)pyrene
Concen: 5.02 ug/ml
RT: 15.221 min Scan# 2301
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:252 Resp: 114456

Ion	Ratio	Lower	Upper
252	100		
125	14.4	14.2	21.2
253	22.5	16.9	25.3

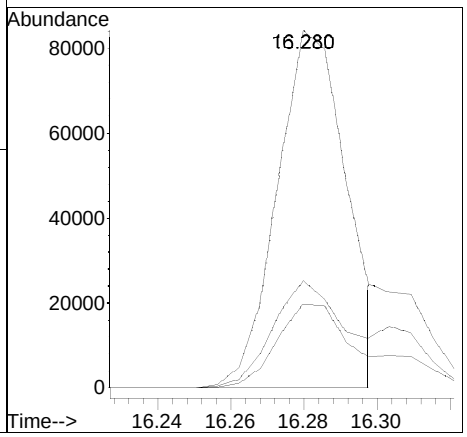


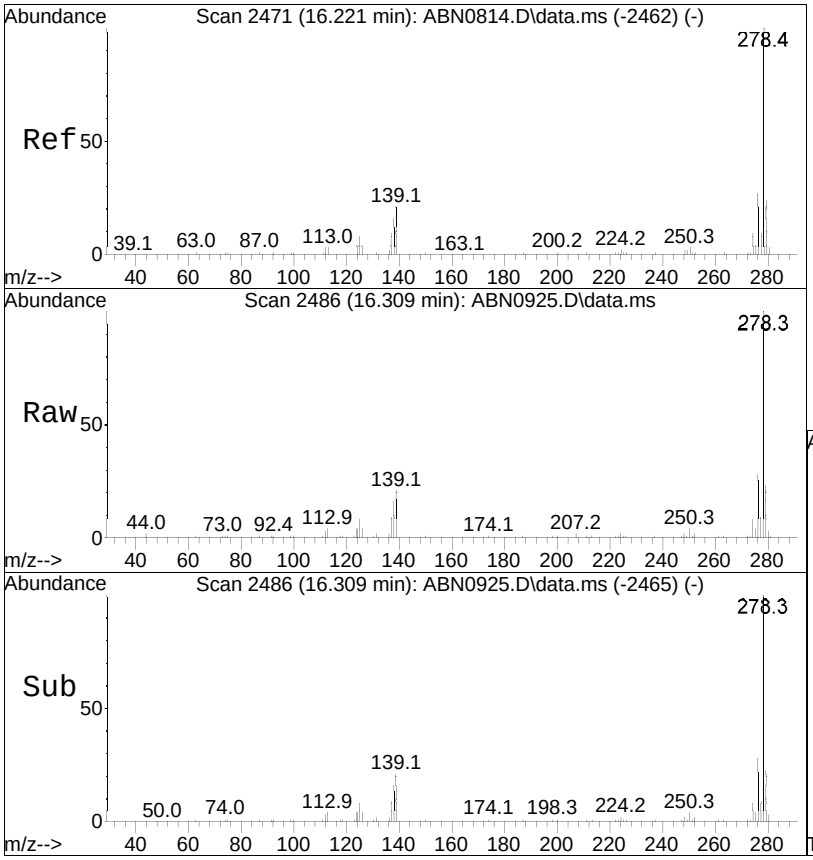


#114
Indeno(1,2,3-cd)pyrene
Concen: 4.88 ug/mL M6
RT: 16.280 min Scan# 2481
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:276 Resp: 111608

Ion	Ratio	Lower	Upper
276	100		
138	43.2	25.1	37.7#
277	30.9	18.6	28.0#

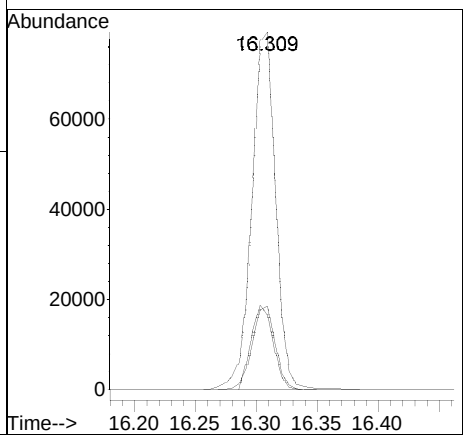


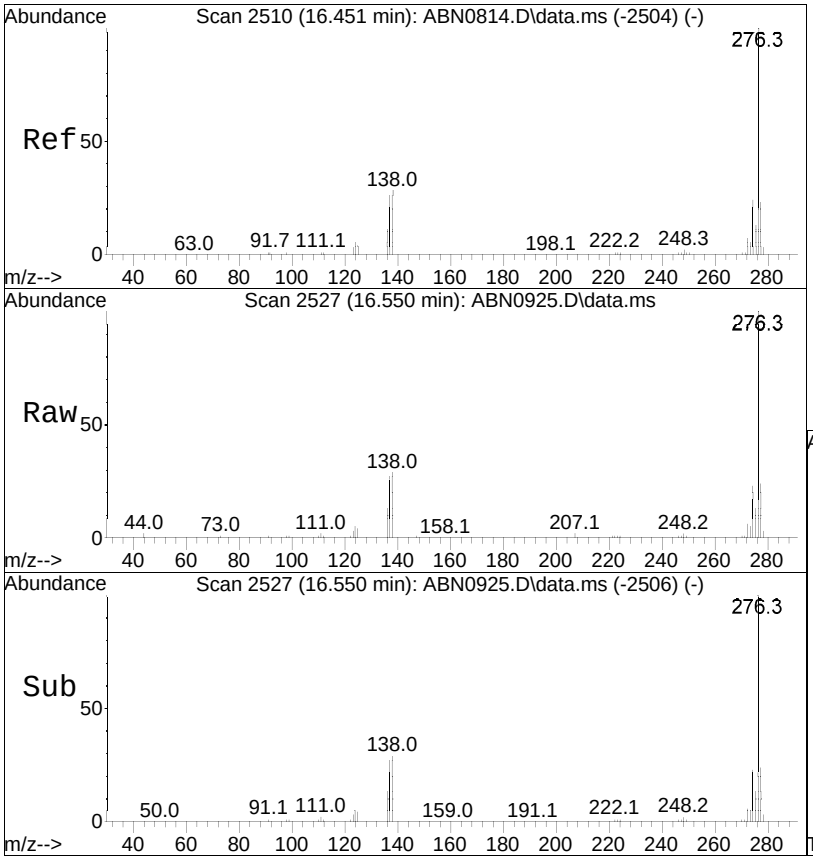


#115
Dibenzo(a,h)anthracene
Concen: 4.85 ug/ml
RT: 16.309 min Scan# 2486
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:278 Resp: 106709

Ion	Ratio	Lower	Upper
278	100		
139	22.1	20.8	31.2
279	23.0	18.3	27.5

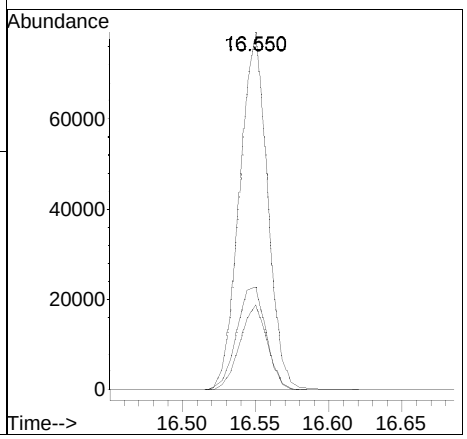




#116
Benzo(ghi)perylene
Concen: 5.16 ug/ml
RT: 16.550 min Scan# 2527
Delta R.T. 0.000 min
Lab File: ABN0925.D
Acq: 25 Sep 2024 8:59 am

Tgt Ion:276 Resp: 105002

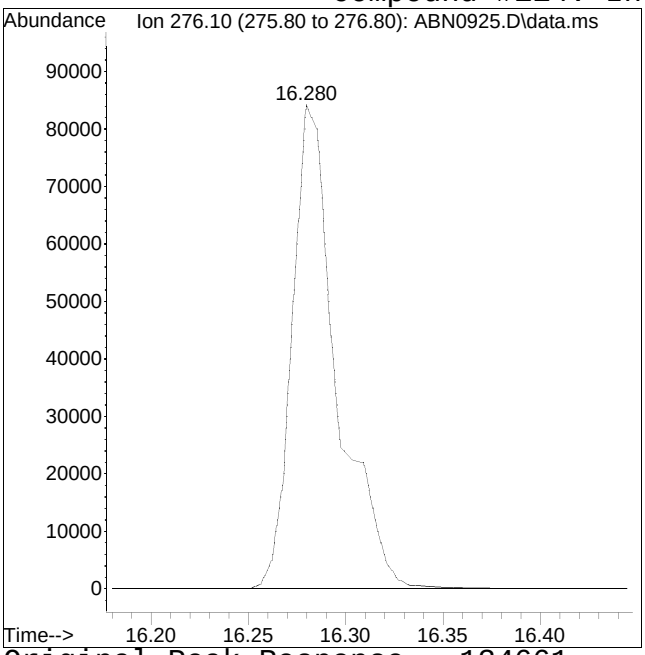
Ion	Ratio	Lower	Upper
276	100		
138	30.3	29.2	43.8
277	23.5	18.8	28.2



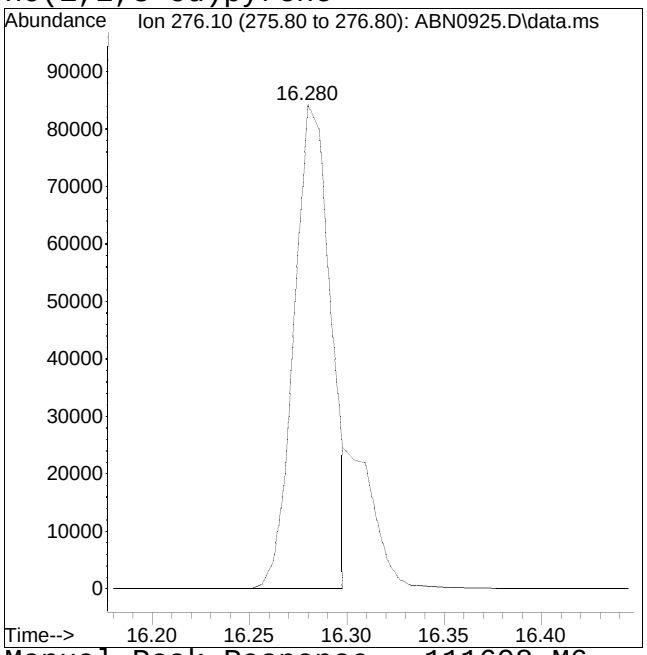
Manual Integration Report

Data Path : I:\8270\SV107\240925RVT\ QMethod : FS240730SV107RVT.m
Data File : ABN0925.D Operator : SV107:jg
Date Inj'd : 9/25/2024 8:59 am Instrument : SV107
Sample : WG1976103-3,32,,ABN 10908 Quant Date : 9/25/2024 10:18 am

Compound #114: Indeno(1,2,3-cd)pyrene



Original Peak Response = 134661



Manual Peak Response = 111608 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240925RVT\
Data File : AP90925.D
Acq On : 25 Sep 2024 9:24 am
Operator : SV107:jg
Sample : WG1976103-4,32,,AP9 10909 gmr0914A
Misc : WG1976103,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 25 10:19:22 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:20:12 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	136	0.00
28	T	Benzaldehyde		1.145	1.006	12.1	124	0.00
29	T	Acetophenone		2.032	1.727	15.0	121	0.00
30	T	m-Toluidine		1.860	1.664	10.5	119	0.00
31	T	2-Chloroaniline		1.773	1.489	16.0	115	0.00
55	I	IS2_Naphthalene-d8		1.000	1.000	0.0	133	0.00
56	T	a-Terpineol		0.297	0.301	-1.3	131	0.00
57	T	3-Chloroaniline		0.163	0.156	4.3	126	0.00
58	T	2,6-Dichlorophenol		0.319	0.286	10.3	114	0.00
59	T	1-chloro-2-nitrobenzene		0.155	0.140	9.7	121	0.00
60	T	Caprolactam	*	5.000	4.638	7.2	137	0.00
61	T	1,2,4,5-Tetrachlorobenzene		0.444	0.349	21.4#	109	0.00
62	T	Biphenyl		1.036	0.808	22.0#	110	0.00
83	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	128	0.00
84	T	Dichloran	*	5.000	3.615	27.7#	109	0.00
85	T	Pentachloronitrobenzene	*	5.000	4.144	17.1	122	0.00
98	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	119	0.00
99	T	Diphenamid		0.507	0.443	12.6	109	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : AP90925.D
Acq On : 25 Sep 2024 9:24 am
Operator : SV107:jg
Sample : WG1976103-4,32,,AP9 10909 gmr0914A
Misc : WG1976103,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 25 10:19:22 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:20:12 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.539	152	22207	4.000	ug/ml	0.00
55) IS2_Naphthalene-d8	7.957	136	80138	4.000	ug/ml	0.00
83) IS2_Acenaphthene-d10	9.716	164	45139	4.000	ug/ml	0.00
98) IS2_Phenanthrene-d10	11.157	188	82977	4.000	ug/ml	# 0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.981	105	27932	4.396	ug/ml	95
29) Acetophenone	7.028	105	47939	4.250	ug/ml#	84
30) m-Toluidine	7.128	106	46201	4.475	ug/ml	94
31) 2-Chloroaniline	7.533	127	41336	4.200	ug/ml	94
56) a-Terpineol	8.022	59	30140	5.068	ug/ml	89
57) 3-Chloroaniline	8.033	65	15597	4.788	ug/ml	80
58) 2,6-Dichlorophenol	8.063	162	28612	4.470	ug/ml	91
59) 1-chloro-2-nitrobenzene	8.333	111	13977	4.501	ug/ml#	1
60) Caprolactam	8.369	55	15620	4.638	ug/ml#	80
61) 1,2,4,5-Tetrachloroben...	8.863	216	34984	3.931	ug/ml	97
62) Biphenyl	9.163	154	80981	3.903	ug/ml	98
84) Dichloran	10.851	206	7898	3.615	ug/ml#	75
85) Pentachloronitrobenzene	10.998	237	8932	4.144	ug/ml#	85
99) Diphenamid	12.057	167	45971	4.375	ug/ml#	83

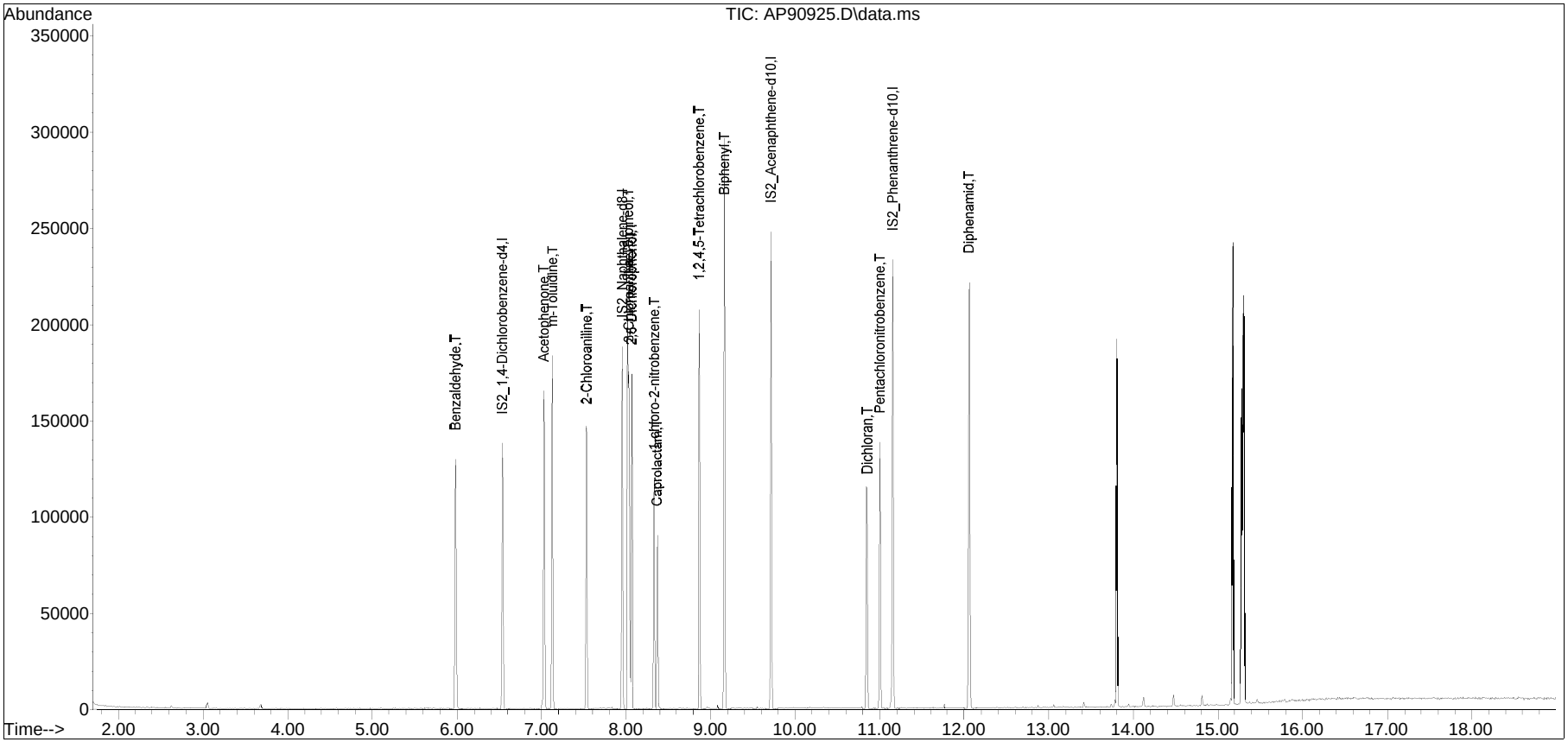
(#) = qualifier out of range (m) = manual integration (+) = signals summed

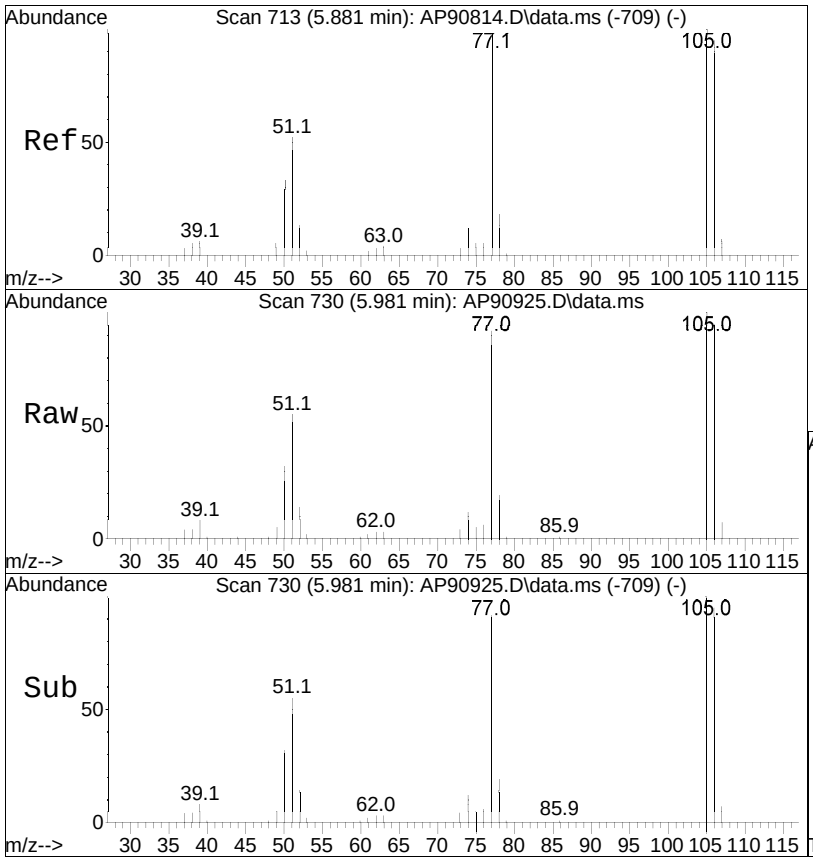
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : AP90925.D
Acq On : 25 Sep 2024 9:24 am
Operator : SV107:jg
Sample : WG1976103-4,32,,AP9 10909 gmr0914A
Misc : WG1976103,,ical21360
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Sep 25 10:19:22 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:20:12 2024
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

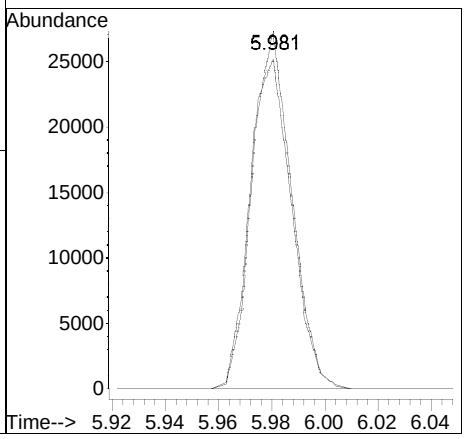


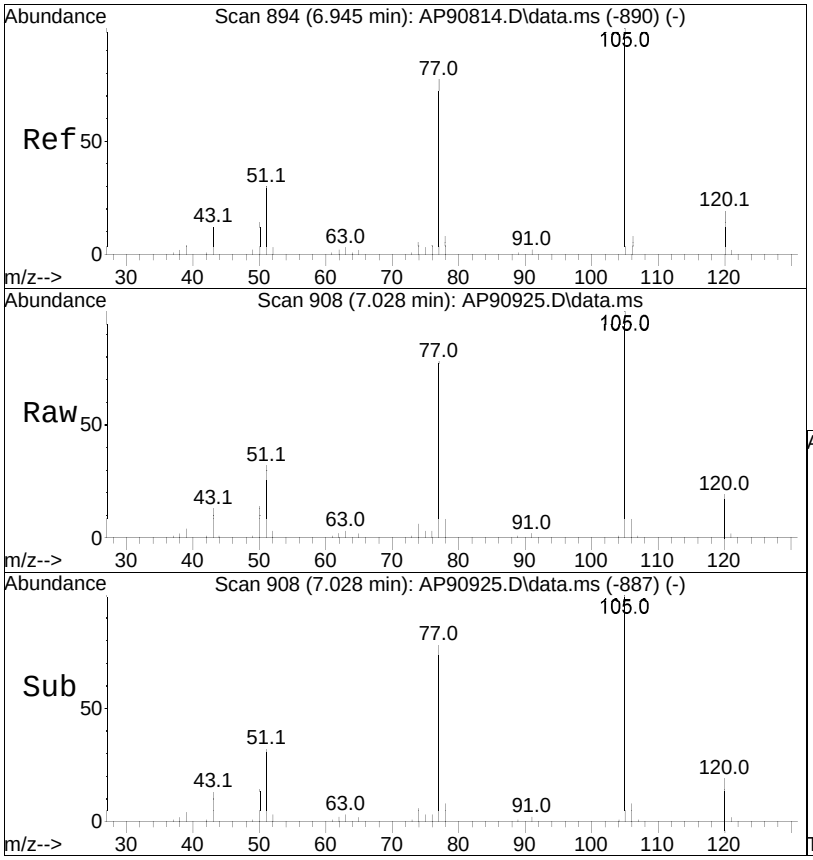


#28
Benzaldehyde
Concen: 4.40 ug/ml
RT: 5.981 min Scan# 730
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:105 Resp: 27932

Ion	Ratio	Lower	Upper
105	100		
77	97.7	82.2	123.4

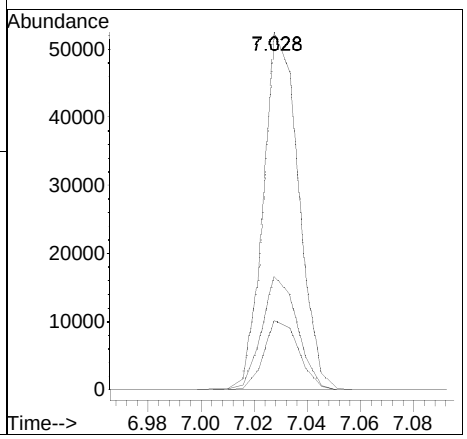


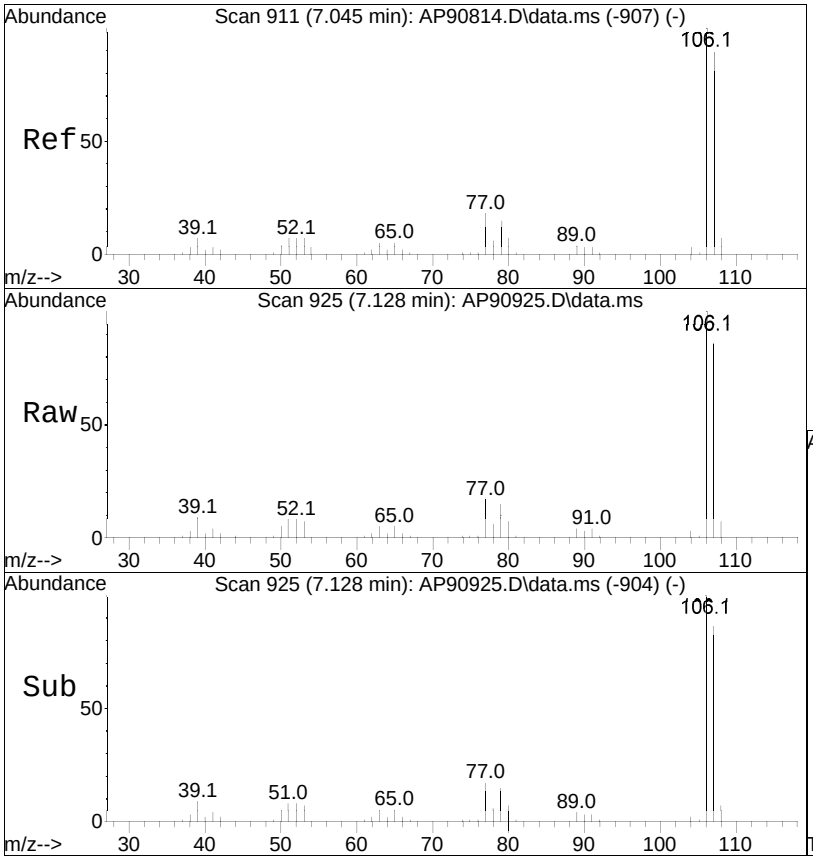


#29
Acetophenone
Concen: 4.25 ug/ml
RT: 7.028 min Scan# 908
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:105 Resp: 47939

Ion	Ratio	Lower	Upper
105	100		
120	19.4	20.5	30.7#
51	32.3	34.9	52.3#

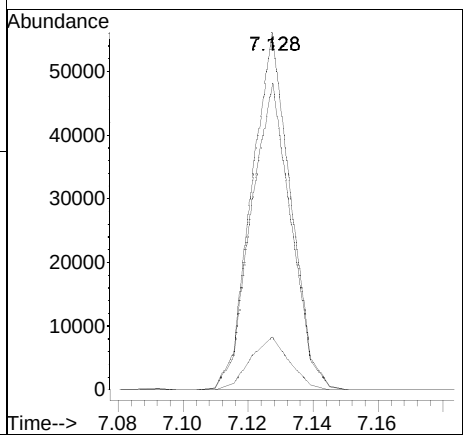


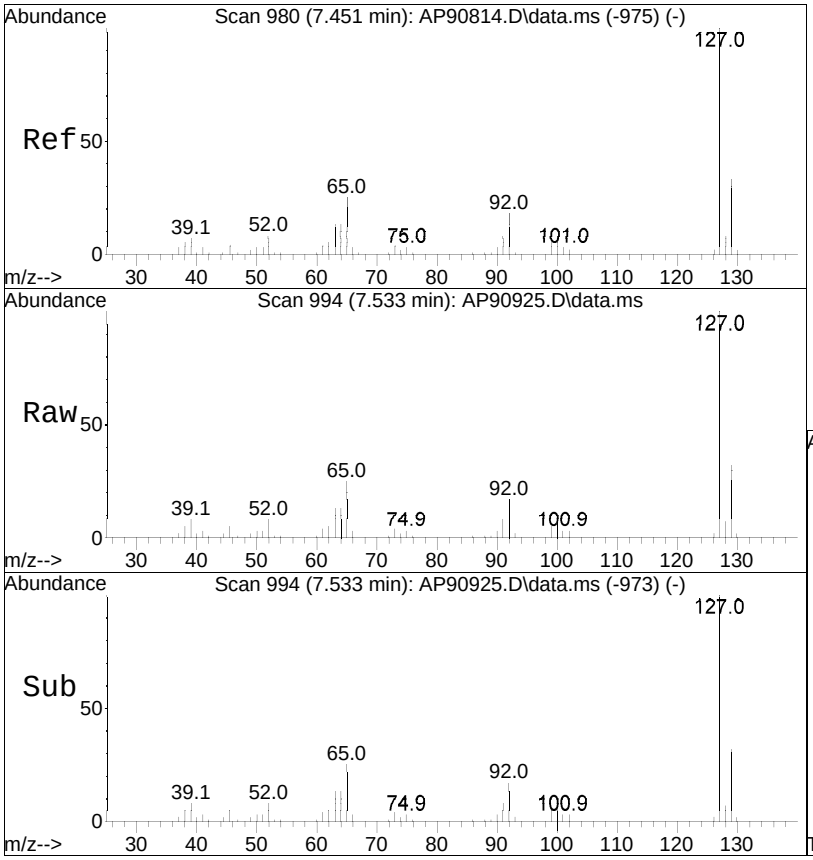


#30
m-Toluidine
Concen: 4.47 ug/ml
RT: 7.128 min Scan# 925
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:106 Resp: 46201

Ion	Ratio	Lower	Upper
106	100		
107	88.2	75.7	113.5
79	15.0	11.8	17.8

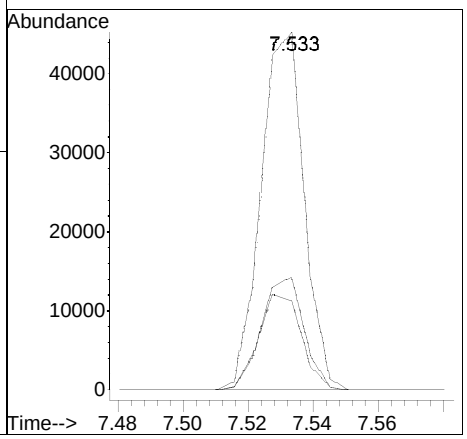


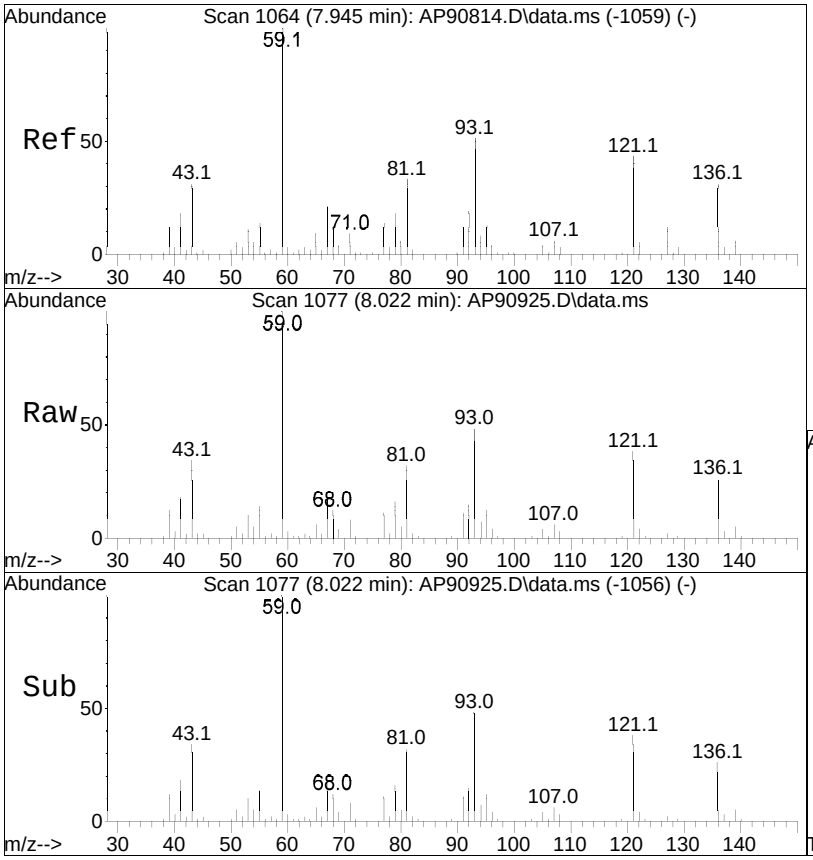


#31
2-Chloroaniline
Concen: 4.20 ug/ml
RT: 7.533 min Scan# 994
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:127 Resp: 41336

Ion	Ratio	Lower	Upper
127	100		
129	31.2	25.9	38.9
65	27.0	26.3	39.5

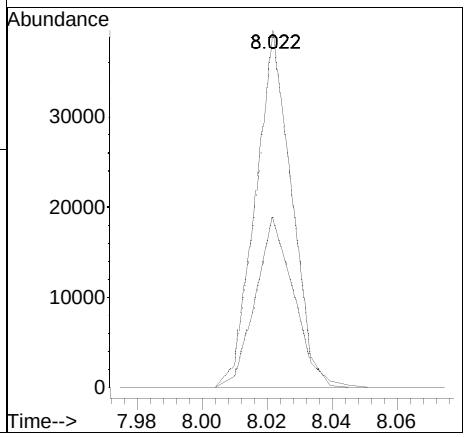


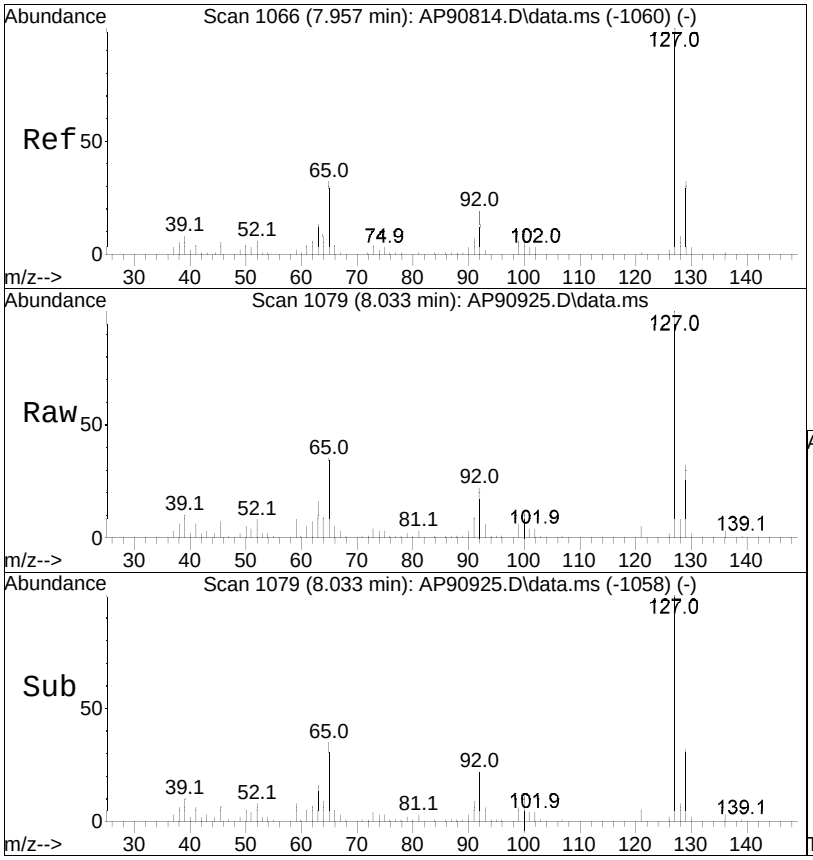


#56
a-Terpineol
Concen: 5.07 ug/ml
RT: 8.022 min Scan# 1077
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion: 59 Resp: 30140

Ion	Ratio	Lower	Upper
59	100		
93	51.4	35.6	53.4

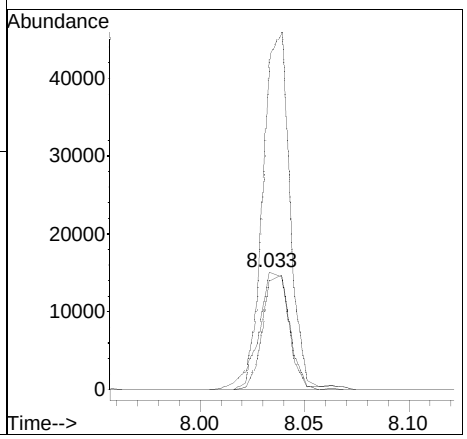


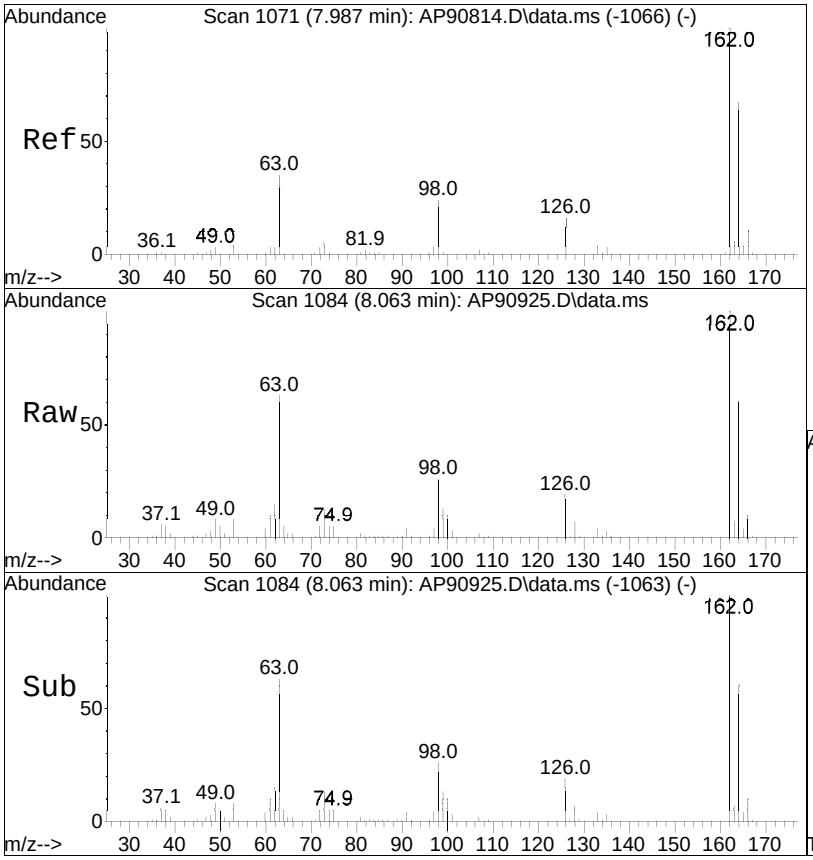


#57
3-Chloroaniline
Concen: 4.79 ug/ml
RT: 8.033 min Scan# 1079
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion: 65 Resp: 15597

Ion	Ratio	Lower	Upper
65	100		
127	260.5	243.2	364.8
129	85.1	78.8	118.2

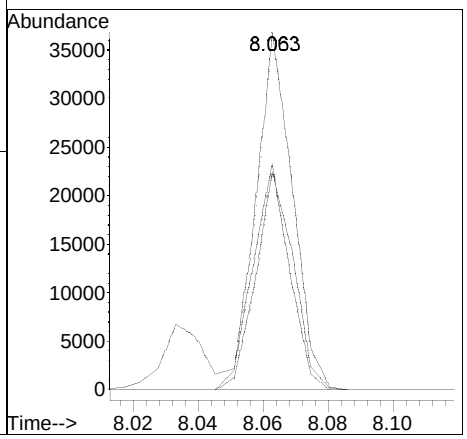


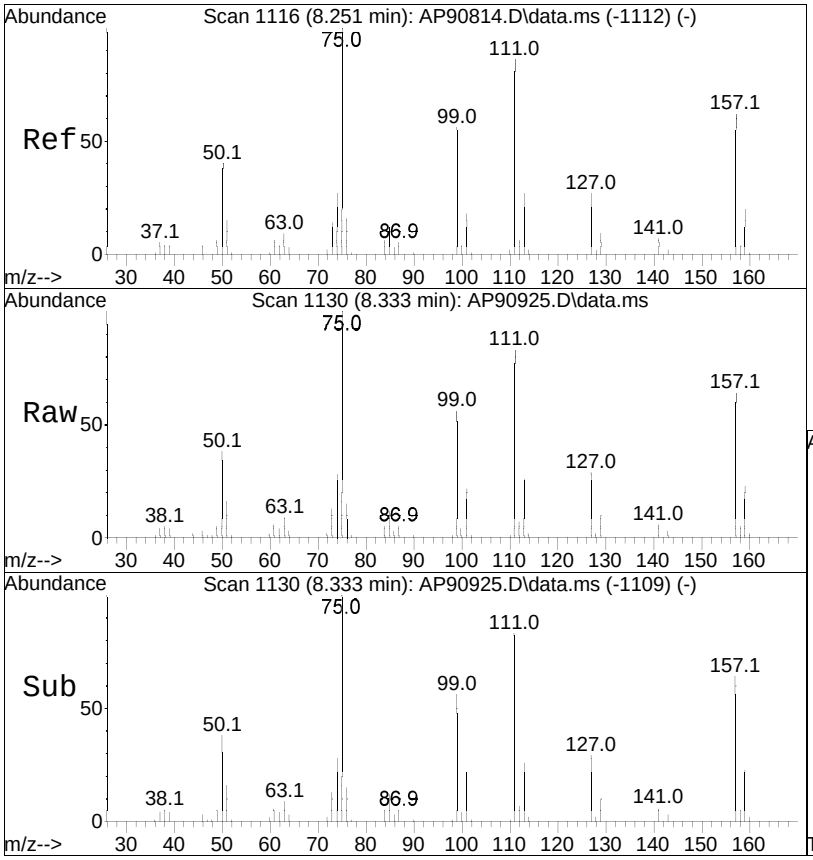


#58
2,6-Dichlorophenol
Concen: 4.47 ug/ml
RT: 8.063 min Scan# 1084
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:162 Resp: 28612

Ion	Ratio	Lower	Upper
162	100		
164	62.4	51.1	76.7
63	62.9	60.8	91.2

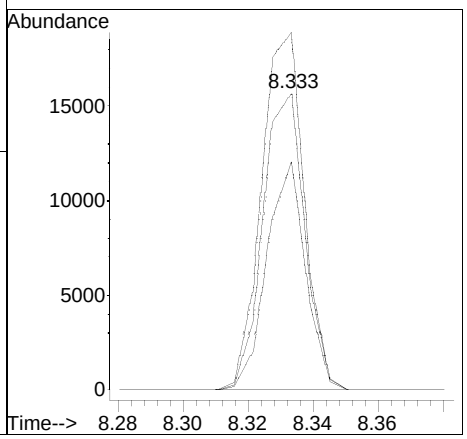


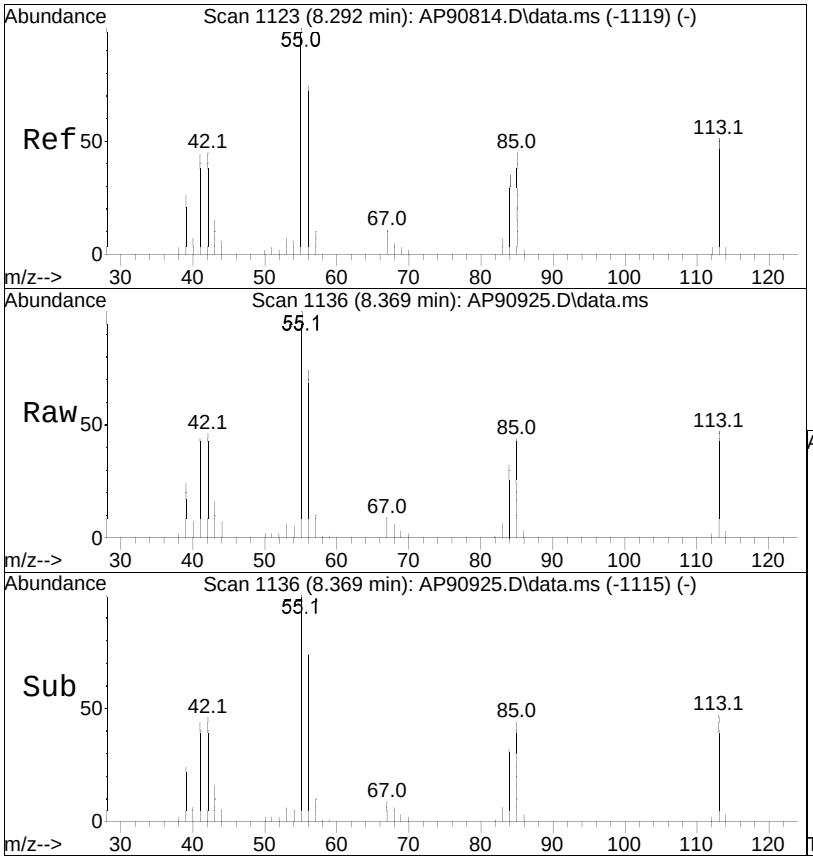


#59
1-chloro-2-nitrobenzene
Concen: 4.50 ug/ml
RT: 8.333 min Scan# 1130
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:111 Resp: 13977

Ion	Ratio	Lower	Upper
111	100		
157	71.1	0.0	0.0#
75	122.5	28.2	42.2#

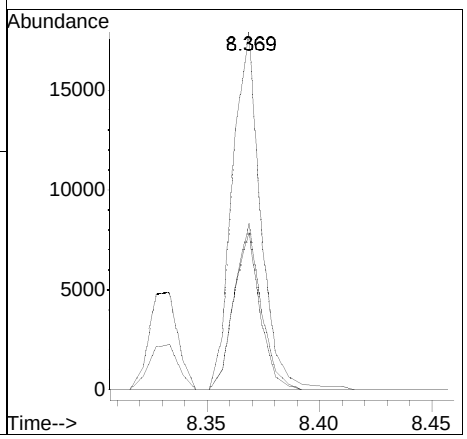


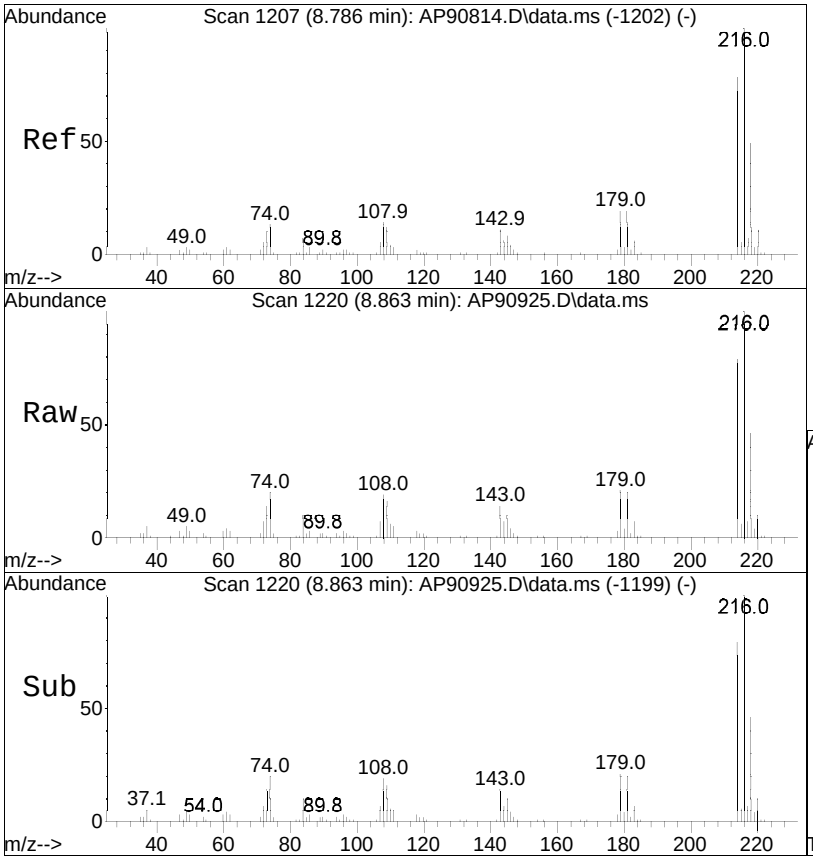


#60
Caprolactam
Concen: 4.64 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion: 55 Resp: 15620

Ion	Ratio	Lower	Upper
55	100		
85	40.9	19.8	29.6#
113	44.1	29.6	44.4

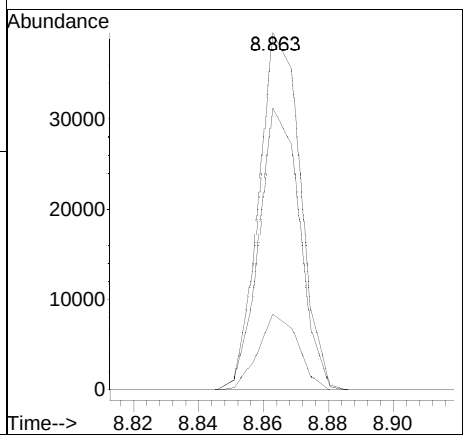


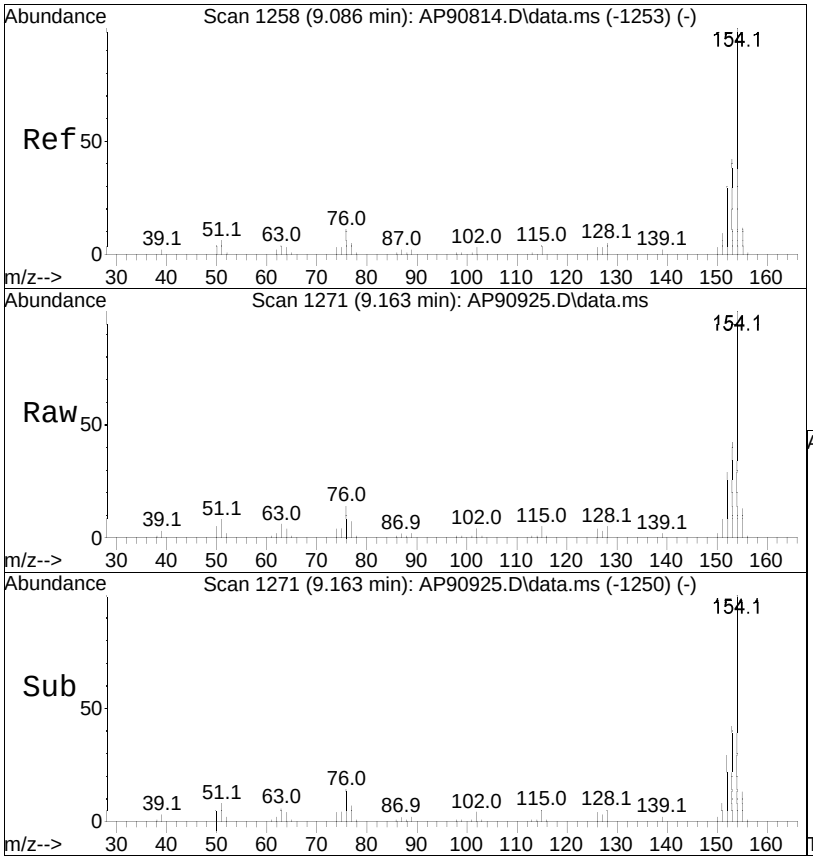


#61
1,2,4,5-Tetrachlorobenzene
Concen: 3.93 ug/ml
RT: 8.863 min Scan# 1220
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:216 Resp: 34984

Ion	Ratio	Lower	Upper
216	100		
214	77.4	63.7	95.5
179	20.4	19.0	28.6

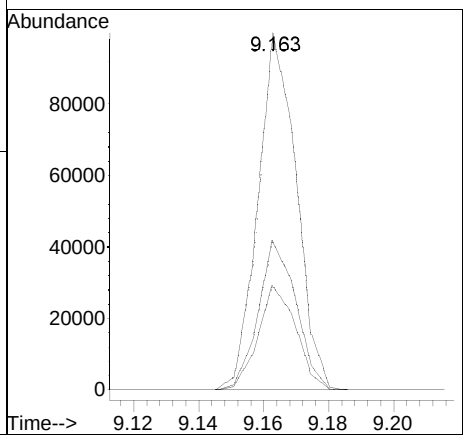


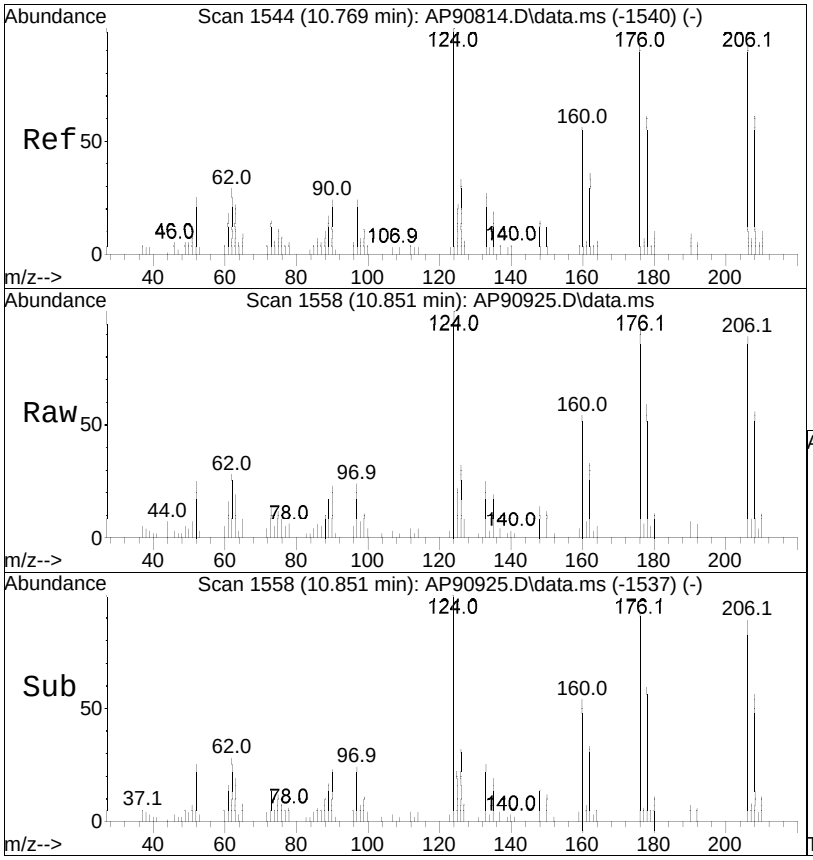


#62
Biphenyl
Concen: 3.90 ug/ml
RT: 9.163 min Scan# 1271
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:154 Resp: 80981

Ion	Ratio	Lower	Upper
154	100		
153	41.5	32.3	48.5
152	29.2	22.5	33.7

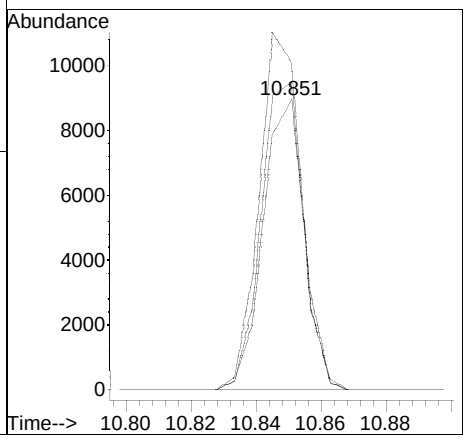


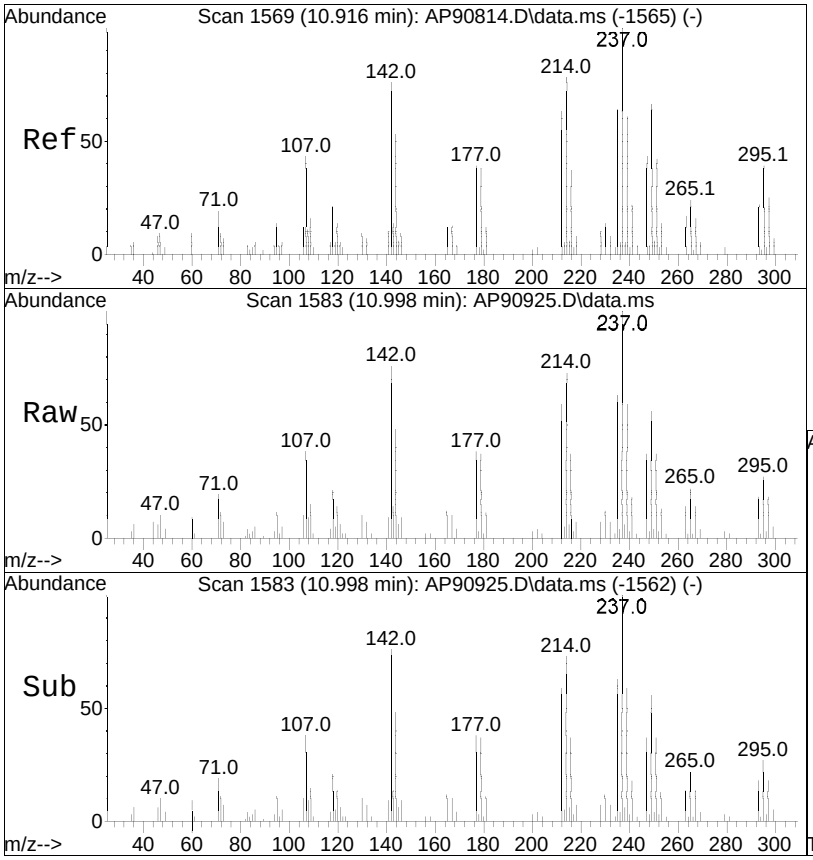


#84
Dichloran
Concen: 3.62 ug/ml
RT: 10.851 min Scan# 1558
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:206 Resp: 7898

Ion	Ratio	Lower	Upper
206	100		
176	108.2	104.6	157.0
124	124.4	130.5	195.7#

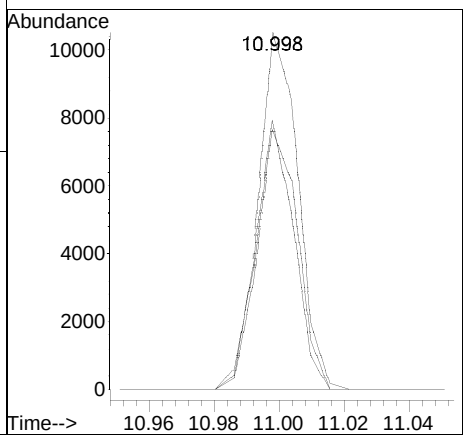


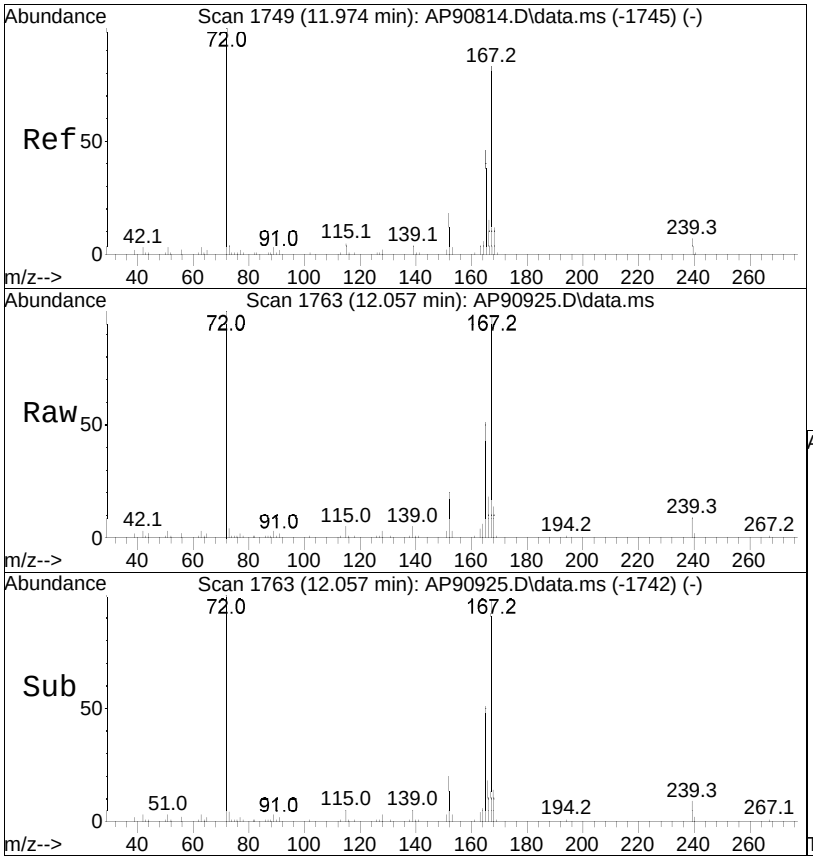


#85
Pentachloronitrobenzene
Concen: 4.14 ug/ml
RT: 10.998 min Scan# 1583
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:237 Resp: 8932

Ion	Ratio	Lower	Upper
237	100		
142	72.2	77.0	115.4#
214	74.2	58.2	87.4

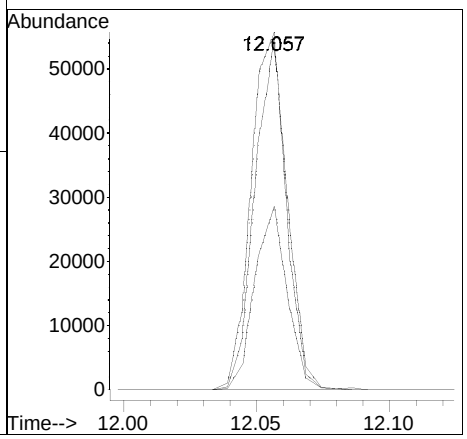




#99
Diphenamid
Concen: 4.38 ug/ml
RT: 12.057 min Scan# 1763
Delta R.T. 0.000 min
Lab File: AP90925.D
Acq: 25 Sep 2024 9:24 am

Tgt Ion:167 Resp: 45971

Ion	Ratio	Lower	Upper
167	100		
72	109.0	109.7	164.5#
165	52.6	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\240925RVT\	QMethod	: FS240730SV107RVT.m
Data File	: AP90925.D	Operator	: SV107:jg
Date Inj'd	: 9/25/2024 9:24 am	Instrument	: SV107
Sample	: WG1976103-4,32,,AP9 10909	Quant Date	: 9/25/2024 10:20 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\240925RVT\
Data File : ADP0925.D
Acq On : 25 Sep 2024 9:49 am
Operator : SV107:jg
Sample : WG1976103-5,32,,ADP 10751 HNY0826A
Misc : WG1976103,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 25 10:20:21 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:10 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	120	0.00
33		1,4-Dioxane		0.459	0.487	-6.1	146	0.00
34	T	n-Decane		1.388	1.674	-20.6#	159	0.00
86	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	120	0.00
87	T	Atrazine		0.315	0.356	-13.0	136	0.00
100	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	113	0.00
101	T	n-Octadecane		0.381	0.545	-43.0#	165	0.00
102	T	Parathion	*	5.000	6.560	-31.2#	183	0.00
103	T	3,3'-Dimethylbenzidine	*	5.000	4.999	0.0	152	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : ADP0925.D
Acq On : 25 Sep 2024 9:49 am
Operator : SV107:jg
Sample : WG1976103-5,32,,ADP 10751 HNY0826A
Misc : WG1976103,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 25 10:20:21 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:10 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.539	152	21399	4.000	ug/ml	0.00
86) IS3_Acenaphthene-d10	9.716	164	44867	4.000	ug/ml	0.00
100) IS3_Phenanthrene-d10	11.157	188	85159	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) 1,4-Dioxane	1.993	88	13028	5.301	ug/ml#	71
34) n-Decane	6.434	57	44787	6.030	ug/ml#	48
87) Atrazine	10.921	200	19953	5.654	ug/ml	95
101) n-Octadecane	11.121	57	57982	7.142	ug/ml#	1
102) Parathion	11.933	109	11343	6.560	ug/ml#	93
103) 3,3'-Dimethylbenzidine	13.227	212	77028	4.999	ug/ml	98

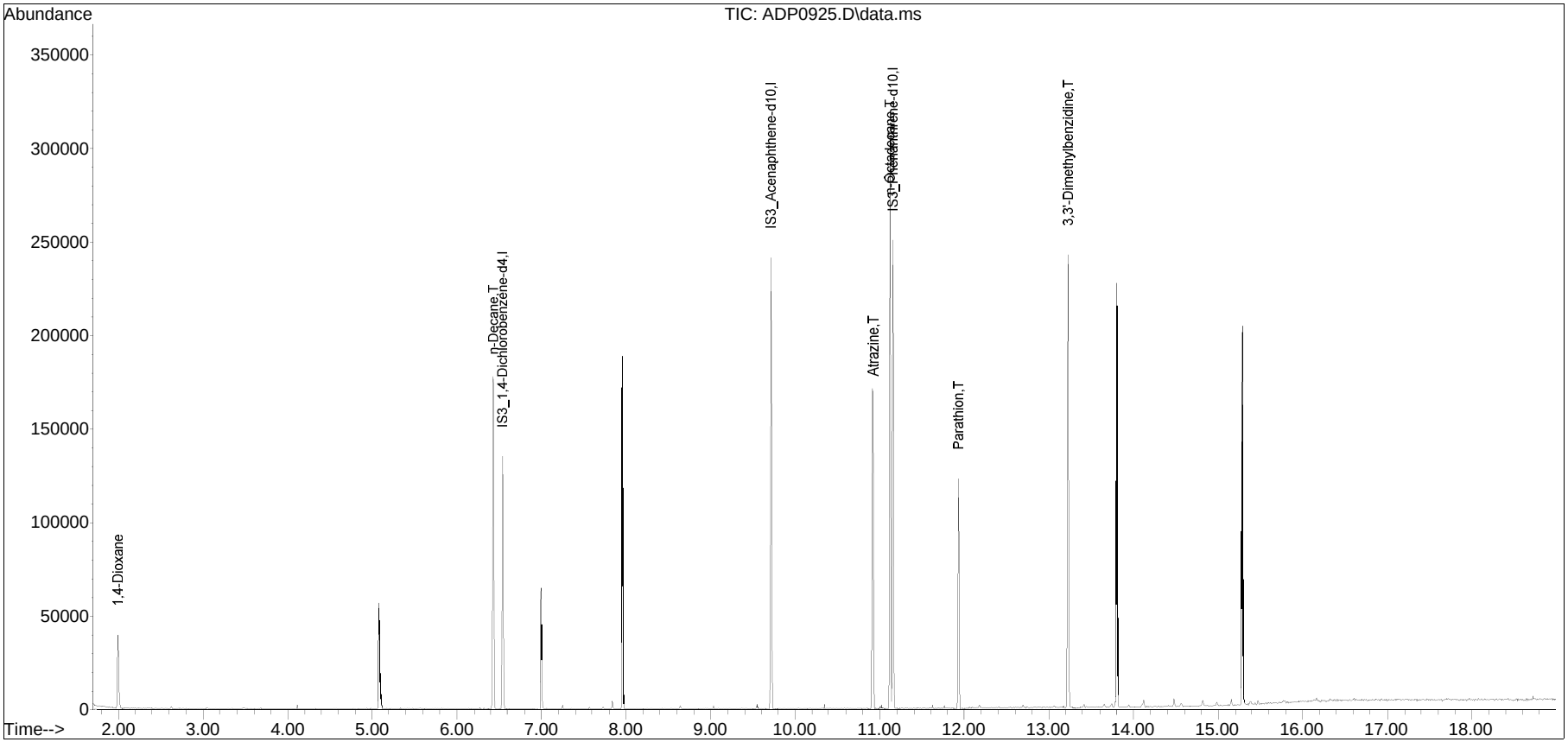
(#) = qualifier out of range (m) = manual integration (+) = signals summed

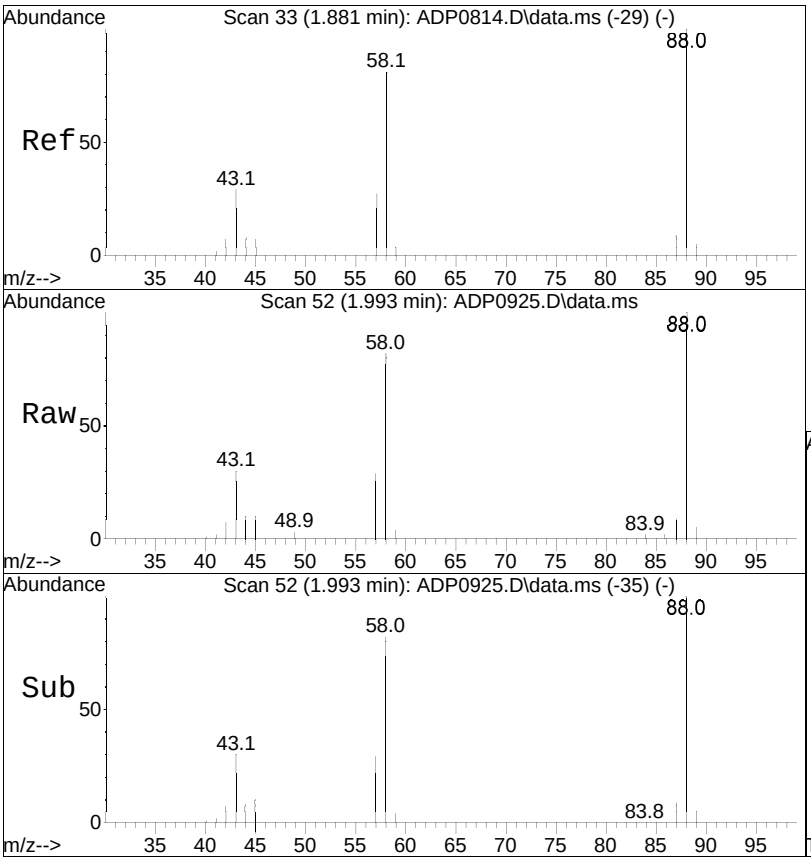
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : ADP0925.D
Acq On : 25 Sep 2024 9:49 am
Operator : SV107:jg
Sample : WG1976103-5,32,,ADP 10751 HNY0826A
Misc : WG1976103,,ical21360
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Sep 25 10:20:21 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:10 2024
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

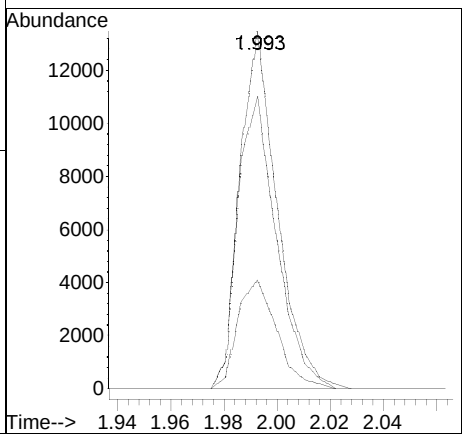


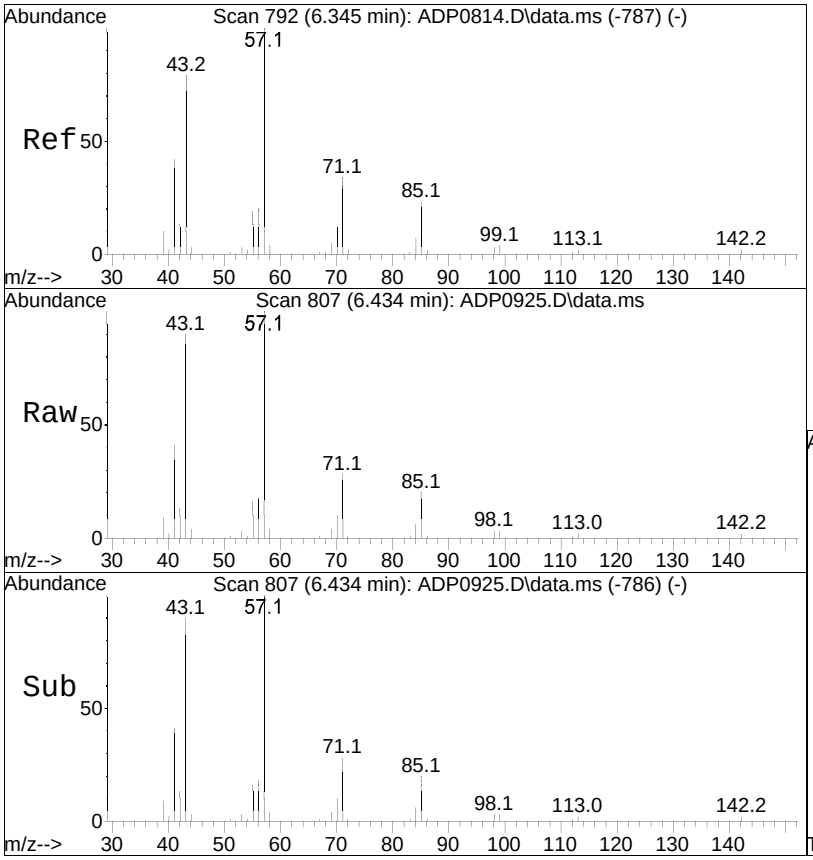


#33
1,4-Dioxane
Concen: 5.30 ug/ml
RT: 1.993 min Scan# 52
Delta R.T. 0.000 min
Lab File: ADP0925.D
Acq: 25 Sep 2024 9:49 am

Tgt Ion: 88 Resp: 13028

Ion	Ratio	Lower	Upper
88	100		
58	84.7	44.8	67.2#
43	32.1	22.4	33.6

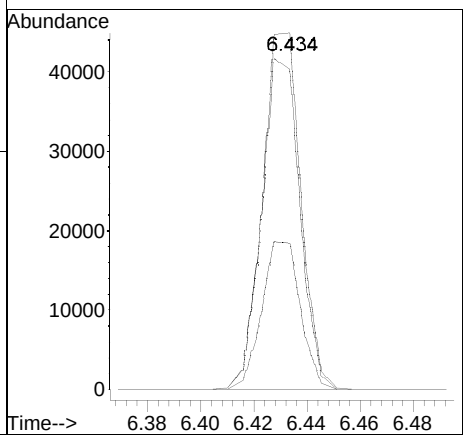


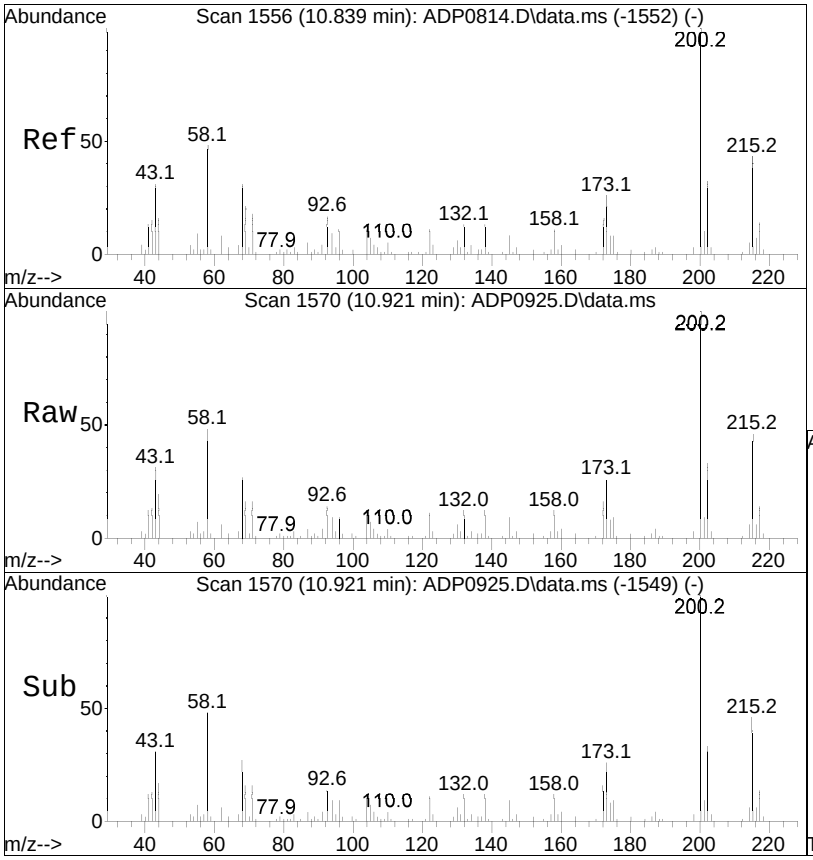


#34
n-Decane
Concen: 6.03 ug/ml
RT: 6.434 min Scan# 807
Delta R.T. 0.000 min
Lab File: ADP0925.D
Acq: 25 Sep 2024 9:49 am

Tgt Ion: 57 Resp: 44787

Ion	Ratio	Lower	Upper
57	100		
43	92.2	0.2	0.2#
41	41.7	0.2	0.2#

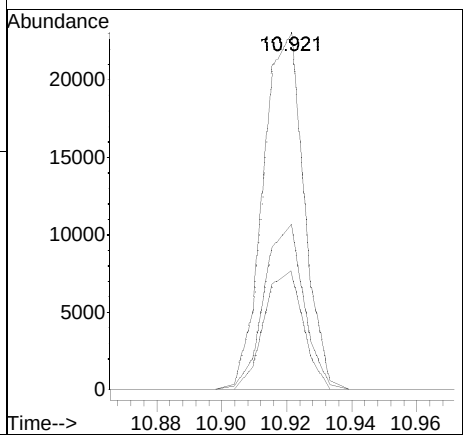


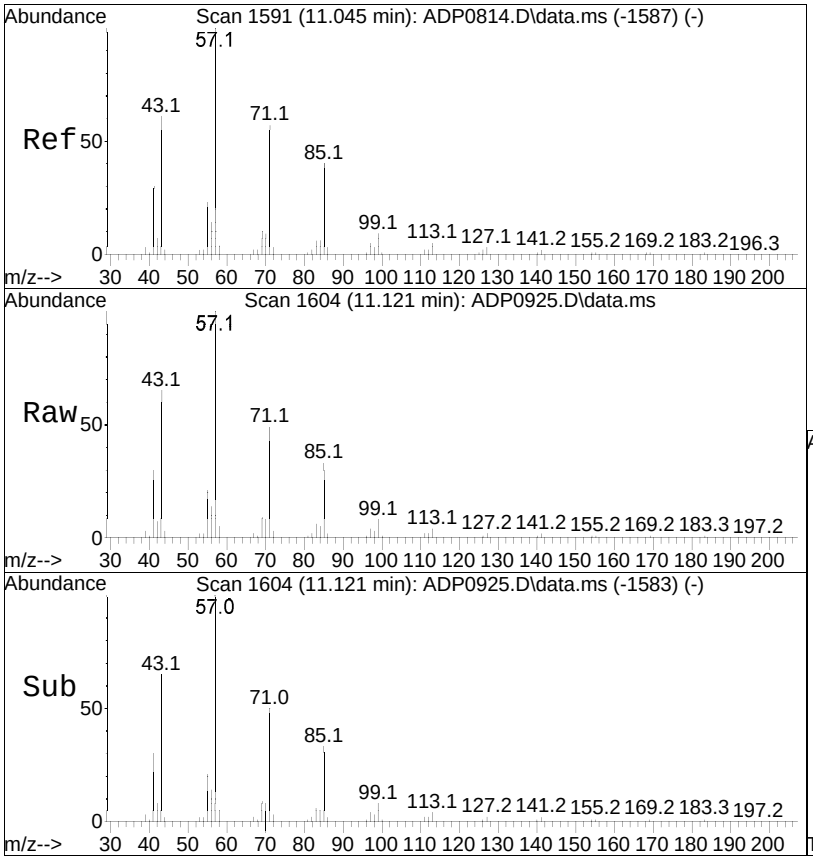


#87
Atrazine
Concen: 5.65 ug/ml
RT: 10.921 min Scan# 1570
Delta R.T. 0.000 min
Lab File: ADP0925.D
Acq: 25 Sep 2024 9:49 am

Tgt Ion:200 Resp: 19953

Ion	Ratio	Lower	Upper
200	100		
202	32.1	25.8	38.6
215	45.1	40.2	60.4

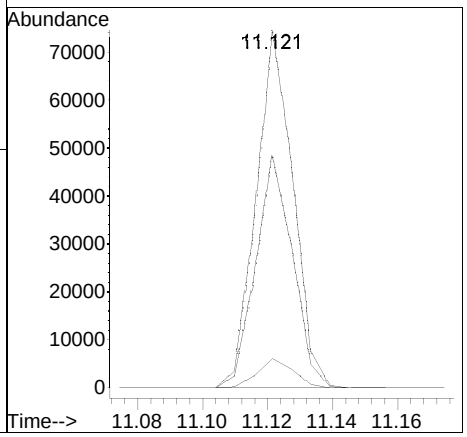


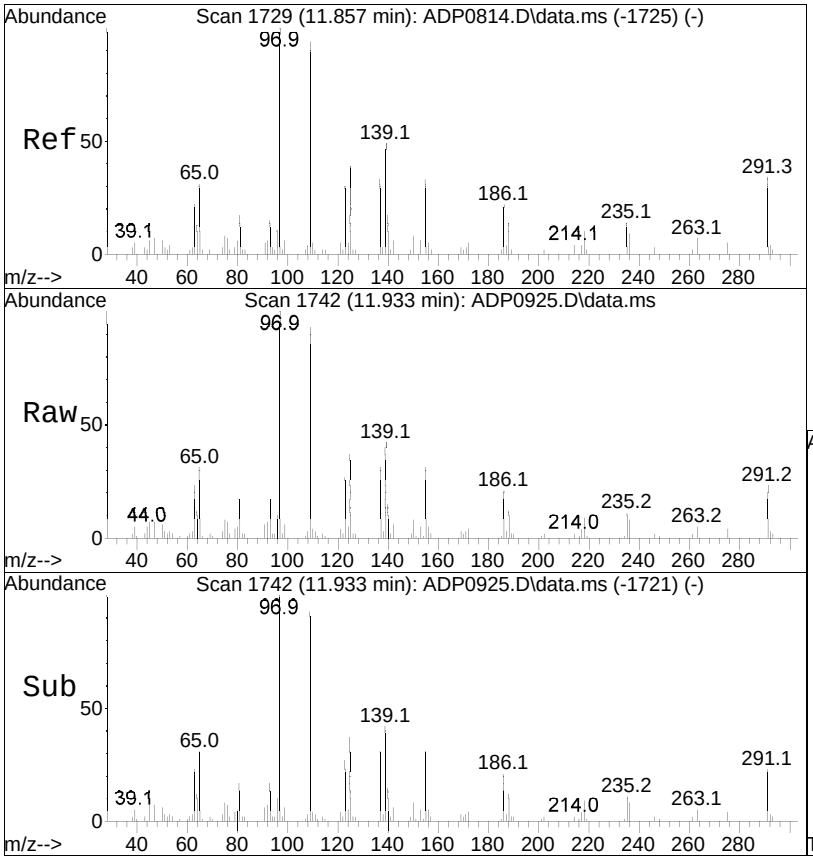


#101
n-Octadecane
Concen: 7.14 ug/ml
RT: 11.121 min Scan# 1604
Delta R.T. 0.000 min
Lab File: ADP0925.D
Acq: 25 Sep 2024 9:49 am

Tgt Ion: 57 Resp: 57982

Ion	Ratio	Lower	Upper
57	100		
43	65.3	9.0	13.6#
70	8.0	0.2	0.2#

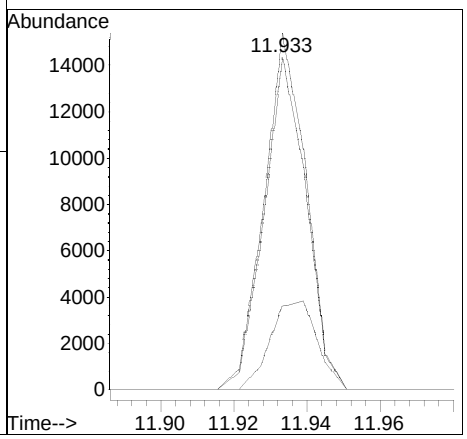


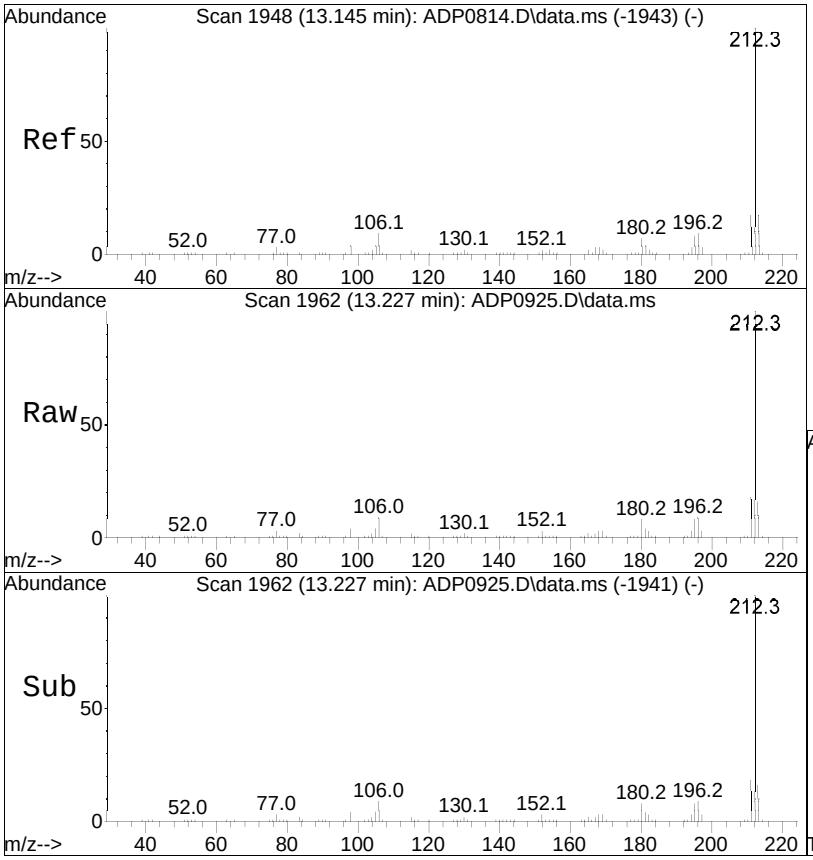


#102
Parathion
Concen: 6.56 ug/ml
RT: 11.933 min Scan# 1742
Delta R.T. 0.000 min
Lab File: ADP0925.D
Acq: 25 Sep 2024 9:49 am

Tgt Ion:109 Resp: 11343

Ion	Ratio	Lower	Upper
109	100		
97	108.0	87.4	131.2
291	30.0	34.2	51.2#

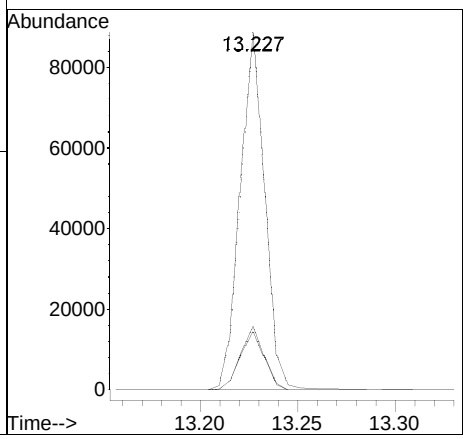




#103
3,3'-Dimethylbenzidine
Concen: 5.00 ug/ml
RT: 13.227 min Scan# 1962
Delta R.T. 0.000 min
Lab File: ADP0925.D
Acq: 25 Sep 2024 9:49 am

Tgt Ion:212 Resp: 77028

Ion	Ratio	Lower	Upper
212	100		
211	17.2	12.9	19.3
213	16.1	13.2	19.8



Manual Integration Report

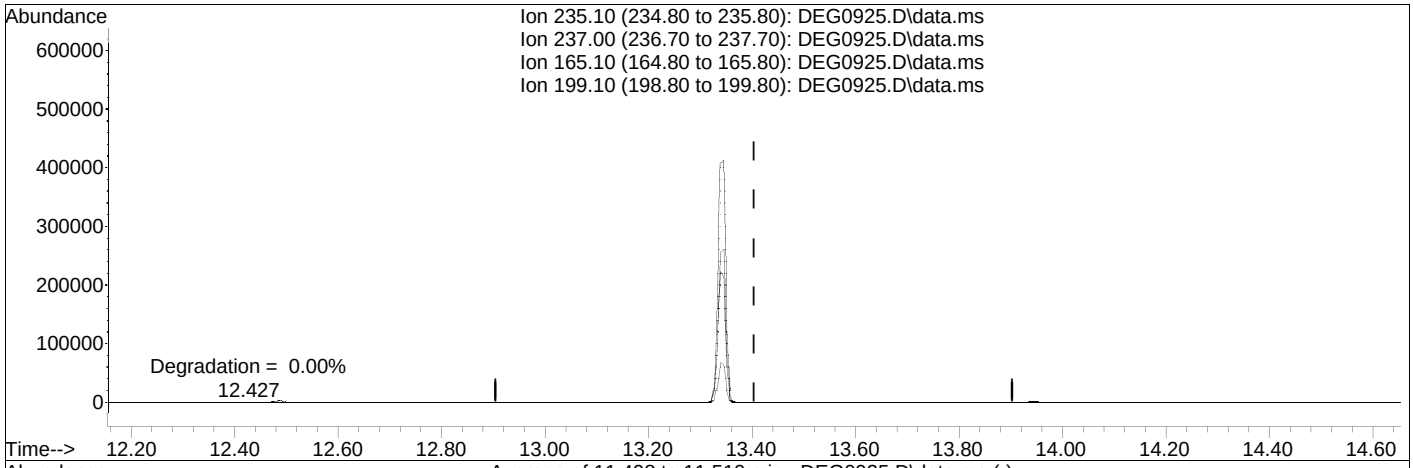
Data Path	: I:\8270\SV107\240925RVT\	QMethod	: FS240730SV107RVT.m
Data File	: ADP0925.D	Operator	: SV107:jg
Date Inj'd	: 9/25/2024 9:49 am	Instrument	: SV107
Sample	: WG1976103-5,32,,ADP 10751	Quant Date	: 9/25/2024 10:21 am

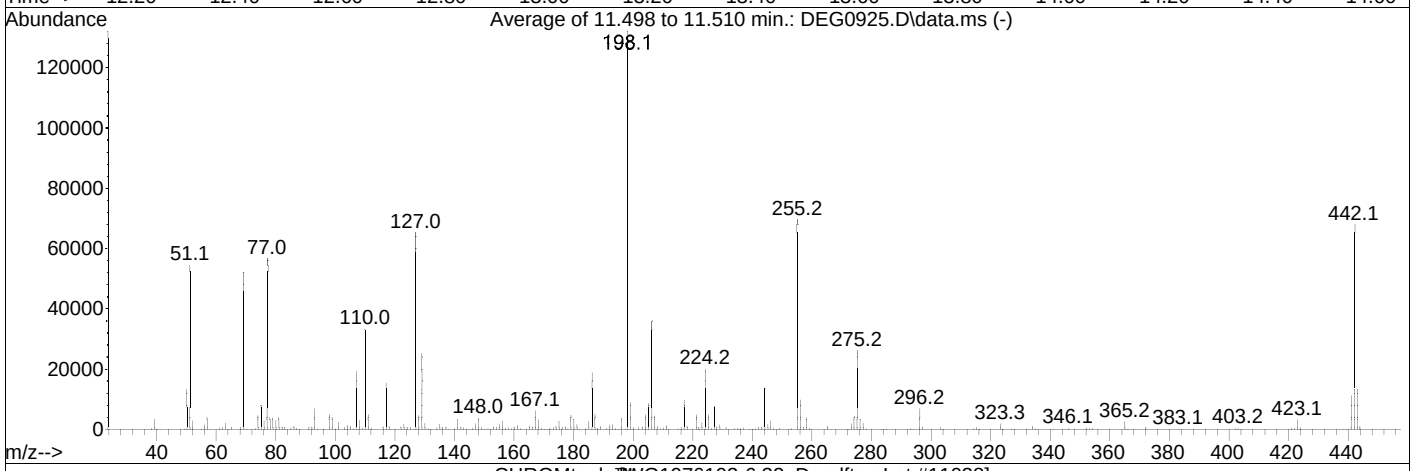
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240925RVT\
Data File : DEG0925.D
Acq On : 25 Sep 2024 8:33 am
Operator : SV107:jg
Sample : WG1976103-2,32,,Degdftpp Lot #11038
Misc : WG1976103,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 25 09:05:57 2024
Quant Method : I:\8270\SV107\240925RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Sep 22 11:30:20 2024
Response via : Initial Calibration





CHROMtools [WG1976103-6,32,,Degdftpp Lot #11038]

(6) DDT (T)

13.345min (-0.059) 66.27

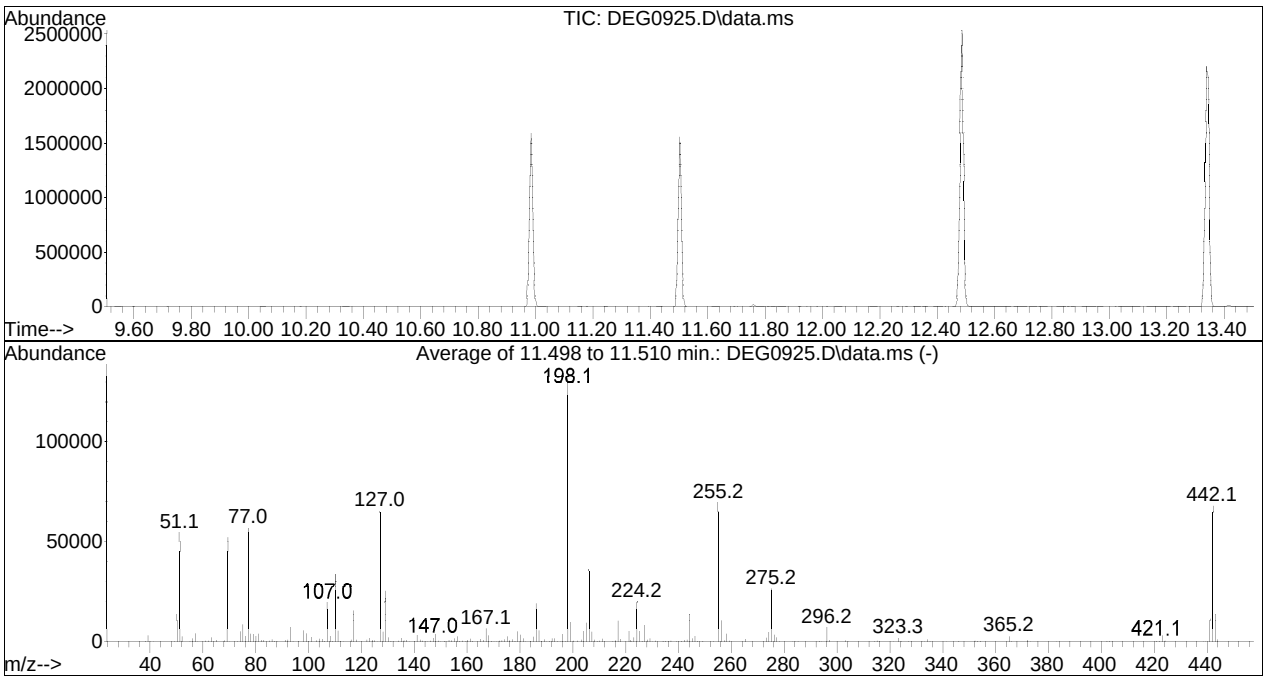
response 403954

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	64.30	62.96
165.10	55.40	53.49
199.10	16.20	16.06

Data Path : I:\8270\SV107\240925RVT\
Data File : DEG0925.D
Acq On : 25 Sep 2024 8:33 am
Operator : SV107:HNY
Sample : WG1976103-1,32,,Degdftpp Lot #11038
Misc : WG1976103,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Sep 25 10:21:08 2024



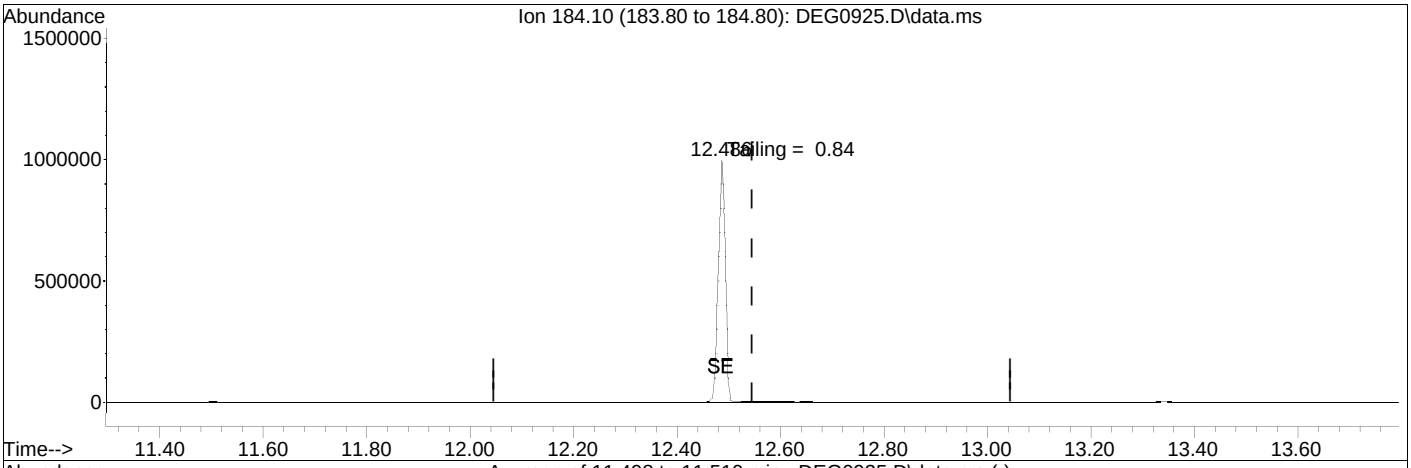
Spectrum Information: Average of 11.498 to 11.510 min.

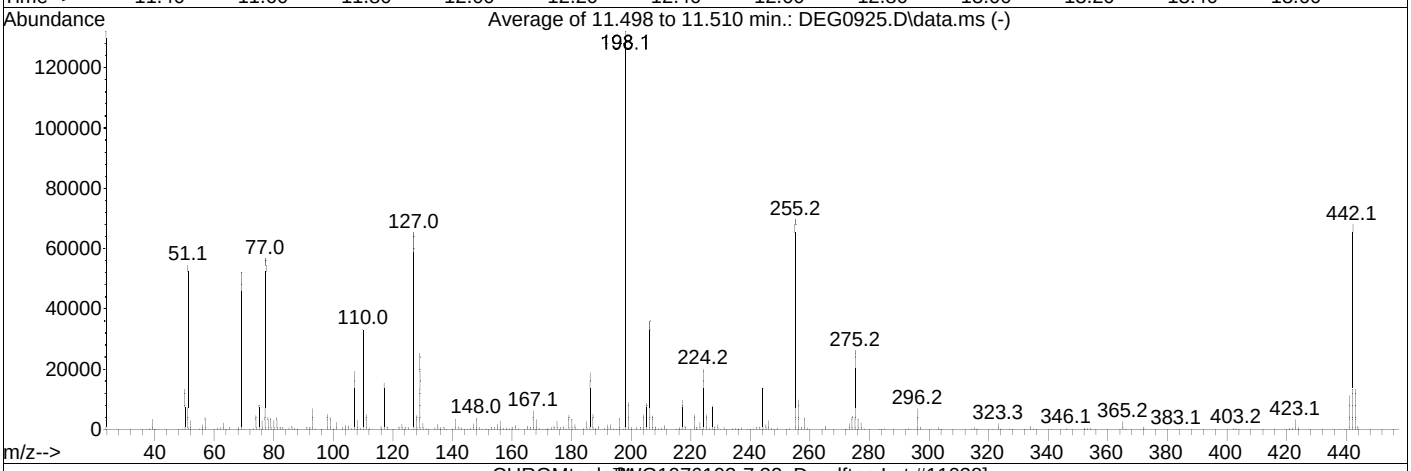
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.3	54536	PASS
68	69	0.00	2	1.6	834	PASS
69	69	100	100	100.0	52189	PASS
70	69	0.00	2	0.5	244	PASS
127	198	10	80	49.3	65200	PASS
197	198	0.00	2	0.2	318	PASS
198	198	100	100	100.0	132139	PASS
199	198	5	9	6.9	9118	PASS
275	198	10	60	19.8	26147	PASS
365	198	1	100	2.0	2608	PASS
441	442	0.01	24	16.5	11228	PASS
442	198	50	100	51.4	67880	PASS
443	442	15	24	19.9	13499	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240925RVT\
Data File : DEG0925.D
Acq On : 25 Sep 2024 8:33 am
Operator : SV107:jg
Sample : WG1976103-6,32,,Degdftpp Lot #11038
Misc : WG1976103,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 25 09:05:57 2024
Quant Method : I:\8270\SV107\240925RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Sep 22 11:30:20 2024
Response via : Initial Calibration





CHROMtools TM [WG1976103-7,32,,Degdftpp Lot #11038]

(3) Benzidine (T)

12.486min (-0.059) 85.18

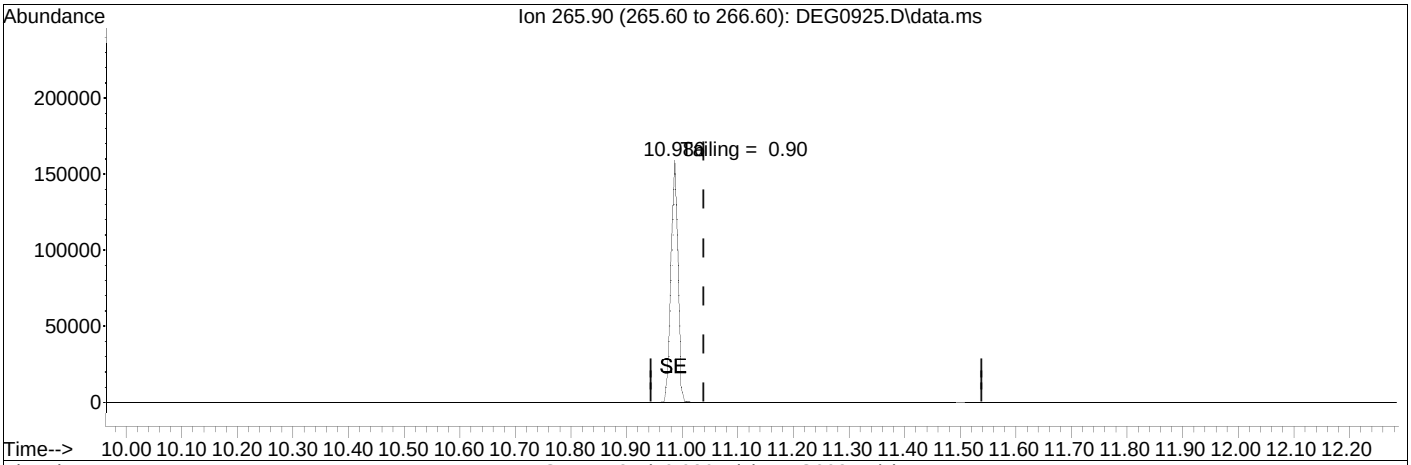
response 867179

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\240925RVT\
Data File : DEG0925.D
Acq On : 25 Sep 2024 8:33 am
Operator : SV107:jg
Sample : WG1976103-7,32,,Degdftpp Lot #11038
Misc : WG1976103,,ical21360
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 25 09:05:57 2024
Quant Method : I:\8270\SV107\240925RVT\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Sep 22 11:30:20 2024
Response via : Initial Calibration



CHROMtools [WG1976103-7,32,,Degdftpp Lot #11038]

(1) Pentachlorophenol (T)

10.986min (-0.053) 61.47

response 129111

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Duplicate Retention Times

(2) DFTPP 198.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 16:05:49 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.287	152	23832	4.000	ug/ml		0.00
Standard Area 1 = 24148			Recovery = 98.69%				
27) IS2_1,4-Dichlorobenzen...	6.287	152	23832	4.000	ug/ml		0.00
Standard Area 3 = 36467			Recovery = 65.35%				
32) IS3_1,4-Dichlorobenzen...	6.287	152	23832	4.000	ug/ml		0.00
Standard Area 2 = 24852			Recovery = 95.90%				
35) IS1_Naphthalene-d8	7.728	136	87033	4.000	ug/ml	#	0.00
Standard Area 1 = 82755			Recovery = 105.17%				
55) IS2_Naphthalene-d8	7.728	136	87033	4.000	ug/ml	#	0.00
Standard Area 3 = 130613			Recovery = 66.63%				
63) IS1_Acenaphthene-d10	9.498	164	63193	4.000	ug/ml		0.00
Standard Area 1 = 56844			Recovery = 111.17%				
83) IS2_Acenaphthene-d10	9.498	164	63193	4.000	ug/ml		0.00
Standard Area 3 = 92349			Recovery = 68.43%				
86) IS3_Acenaphthene-d10	9.498	164	63193	4.000	ug/ml		0.00
Standard Area 2 = 61204			Recovery = 103.25%				
88) IS1_Phenanthrene-d10	10.939	188	147889	4.000	ug/ml		0.00
Standard Area 1 = 128731			Recovery = 114.88%				
100) IS3_Phenanthrene-d10	10.939	188	147889	4.000	ug/ml		0.00
Standard Area 2 = 132912			Recovery = 111.27%				
104) IS1_Chrysene-d12	13.568	240	174749	4.000	ug/ml	#	0.00
Standard Area 1 = 146328			Recovery = 119.42%				
113) IS1_Perylene-d12	15.027	264	181997	4.000	ug/ml		0.00
Standard Area 1 = 171391			Recovery = 106.19%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.216	112	7030	1.021	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 51.05%				
7) Phenol-d6	5.904	99	6350	0.673	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 33.65%				
19) Nitrobenzene-d5	6.957	82	6992	0.725	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 72.50%				
46) 2-Fluorobiphenyl	8.863	172	14716	0.658	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 65.80%				
79) 2,4,6-Tribromophenol	10.269	330	6314	1.603	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 80.15%				

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 16:05:49 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.527	244	31178	0.784	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 78.40%

Target Compounds				Qvalue
6) 2-Chlorophenol	0.000	0	N.D.	
8) Phenol	0.000	0	N.D.	
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.	
15) 2-Methylphenol	0.000	0	N.D.	
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.	d
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.	
20) Nitrobenzene	0.000	0	N.D.	
21) Isophorone	0.000	0	N.D.	
22) 2-Nitrophenol	0.000	0	N.D.	
23) 2,4-Dimethylphenol	0.000	0	N.D.	
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.	
25) 2,4-Dichlorophenol	0.000	0	N.D.	
28) Benzaldehyde	0.000	0	N.D.	
29) Acetophenone	0.000	0	N.D.	
38) 4-Chloroaniline	0.000	0	N.D.	
40) p-Chloro-m-cresol	0.000	0	N.D.	
43) Hexachlorocyclopentadiene	0.000	0	N.D.	
44) 2,4,6-Trichlorophenol	0.000	0	N.D.	
45) 2,4,5-Trichlorophenol	0.000	0	N.D.	
48) 2-Nitroaniline	0.000	0	N.D.	
51) Dimethyl phthalate	0.000	0	N.D.	d
53) 2,6-Dinitrotoluene	0.000	0	N.D.	d
60) Caprolactam	0.000	0	N.D.	
61) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.	
62) Biphenyl	0.000	0	N.D.	
64) 3-Nitroaniline	0.000	0	N.D.	
66) 2,4-Dinitrophenol	0.000	0	N.D.	
67) Dibenzofuran	0.000	0	N.D.	
68) 2,4-Dinitrotoluene	0.000	0	N.D.	d
69) 4-Nitrophenol	0.000	0	N.D.	
72) Diethyl phthalate	0.000	0	N.D.	
74) 4-Chlorophenyl phenyl ...	0.000	0	N.D.	
75) 4-Nitroaniline	0.000	0	N.D.	

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 16:05:49 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
77) NDPA/DPA	0.000		0	N.D.		
80) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
87) Atrazine	0.000		0	N.D.		
91) Carbazole	0.000		0	N.D.		
92) Di-n-butylphthalate	0.000		0	N.D.		
97) Butyl benzyl phthalate	0.000		0	N.D.		
106) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
108) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
109) Di-n-octylphthalate	0.000		0	N.D.	d	

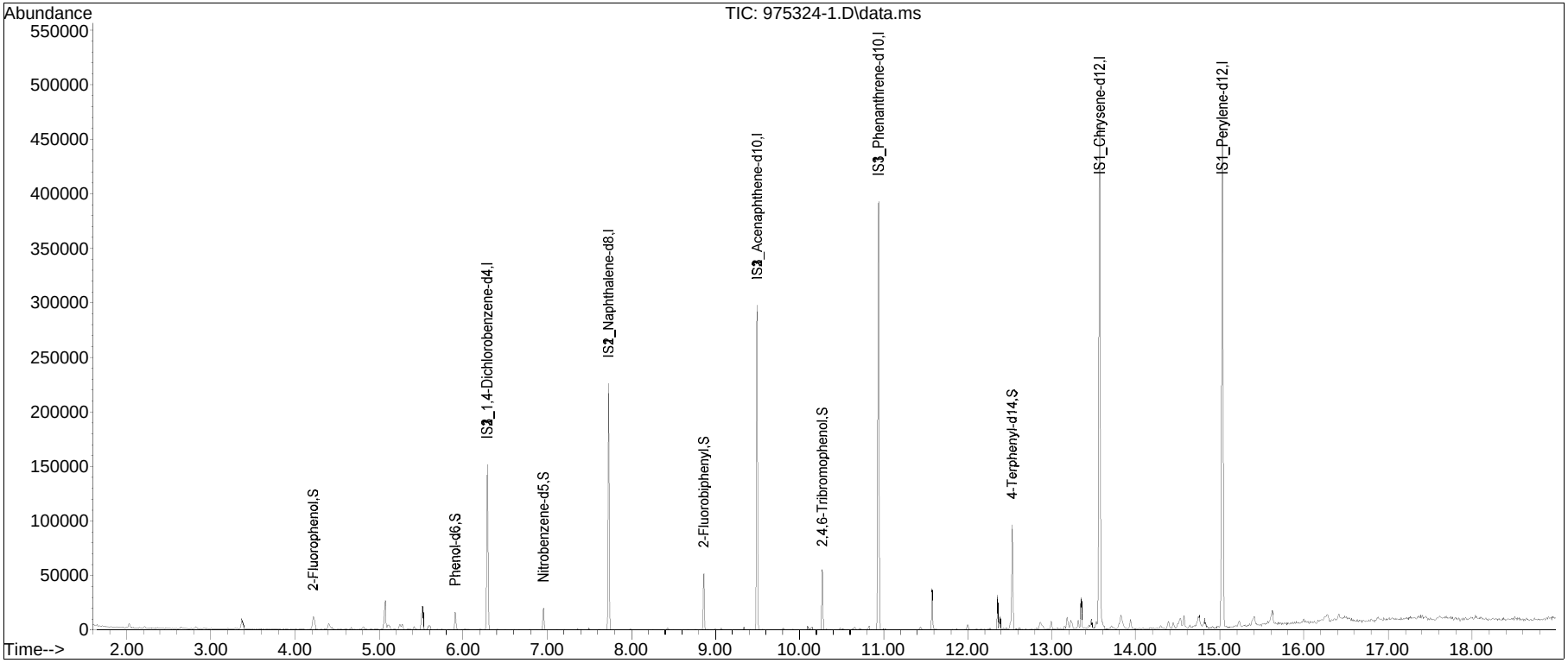
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 16:05:49 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90924.D•



Manual Integration Report

Data Path	: I:\8270\SV106\240924RVT\	QMethod	: FS240624SV106.m
Data File	: 975324-1.D	Operator	: SV106:smz
Date Inj'd	: 9/24/2024 3:38 pm	Instrument	: SV 106
Sample	: WG1975324-1,32,,HNY	Quant Date	: 9/24/2024 3:57 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 975324-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.363	296	302	310	rBV4	9575	17052	3.63%	0.650%
2	4.216	442	447	453	rBV2	11808	20596	4.38%	0.785%
3	4.404	474	479	485	rBV3	4953	9137	1.94%	0.348%
4	5.069	587	592	596	rBV	25598	35511	7.56%	1.353%
5	5.116	596	600	608	rVB4	4369	8351	1.78%	0.318%
6	5.245	617	622	624	rBV3	5022	7016	1.49%	0.267%
7	5.269	624	626	632	rVB3	4980	5961	1.27%	0.227%
8	5.504	661	666	674	rVB3	21349	41616	8.85%	1.585%
9	5.904	731	734	742	rVB	16521	17415	3.71%	0.663%
10	6.287	795	799	803	rBV	151753	142802	30.38%	5.440%
11	6.957	908	913	917	rBB	20022	18865	4.01%	0.719%
12	7.728	1041	1044	1048	rBV	226008	183116	38.96%	6.975%
13	8.863	1233	1237	1240	rBV	51661	44117	9.39%	1.681%
14	9.498	1341	1345	1348	rVB	297769	264267	56.23%	10.067%
15	10.263	1472	1475	1479	rVB	55339	49983	10.63%	1.904%
16	10.939	1586	1590	1593	rBV	392883	357464	76.06%	13.617%
17	11.574	1695	1698	1705	rVB	36945	35546	7.56%	1.354%
18	12.351	1827	1830	1833	rBV	31590	26838	5.71%	1.022%
19	12.386	1833	1836	1841	rVB	11909	10932	2.33%	0.416%
20	12.527	1857	1860	1864	rVB	95864	86395	18.38%	3.291%
21	12.863	1913	1917	1927	rVB6	6763	15621	3.32%	0.595%
22	12.992	1936	1939	1942	rVB2	7418	7266	1.55%	0.277%
23	13.180	1968	1971	1975	rBV5	10249	13582	2.89%	0.517%
24	13.221	1975	1978	1984	rVB4	7637	12454	2.65%	0.474%
25	13.310	1990	1993	1996	rBV	7479	7141	1.52%	0.272%
26	13.351	1996	2000	2006	rVB2	27863	30455	6.48%	1.160%
27	13.468	2017	2020	2023	rVB2	8032	7807	1.66%	0.297%
28	13.533	2028	2031	2032	rBV	6245	5774	1.23%	0.220%

LSC Area Percent Report

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Title : Semivolatiles by GC/MS by modified 8270

29	13.568	2032	2037	2044	rVB	460847	469326	99.86%	17.878%
30	13.710	2054	2061	2065	rBV4	3042	5371	1.14%	0.205%
31	13.821	2070	2080	2091	rBV2	12645	32365	6.89%	1.233%
32	13.933	2094	2099	2103	rBV4	8564	10449	2.22%	0.398%
33	14.386	2171	2176	2180	rBV4	6724	9782	2.08%	0.373%
34	14.439	2183	2185	2189	rVV3	5380	6294	1.34%	0.240%
35	14.521	2191	2199	2202	rVV5	9016	20018	4.26%	0.763%
36	14.562	2203	2206	2214	rVB4	11787	14356	3.05%	0.547%
37	14.633	2214	2218	2224	rBV7	3124	6635	1.41%	0.253%
38	14.751	2231	2238	2244	rVB6	10670	24625	5.24%	0.938%
39	14.809	2244	2248	2253	rVB5	7476	9823	2.09%	0.374%
40	15.027	2280	2285	2289	rBV	456635	469995	100.00%	17.903%
41	15.227	2314	2319	2324	rVB5	5356	8482	1.80%	0.323%
42	15.404	2342	2349	2355	rBV7	8220	18038	3.84%	0.687%
43	15.615	2377	2385	2392	rVB9	11836	25342	5.39%	0.965%
44	16.415	2517	2521	2525	rBV7	4830	6035	1.28%	0.230%
45	16.880	2596	2600	2604	rBV5	3322	5142	1.09%	0.196%

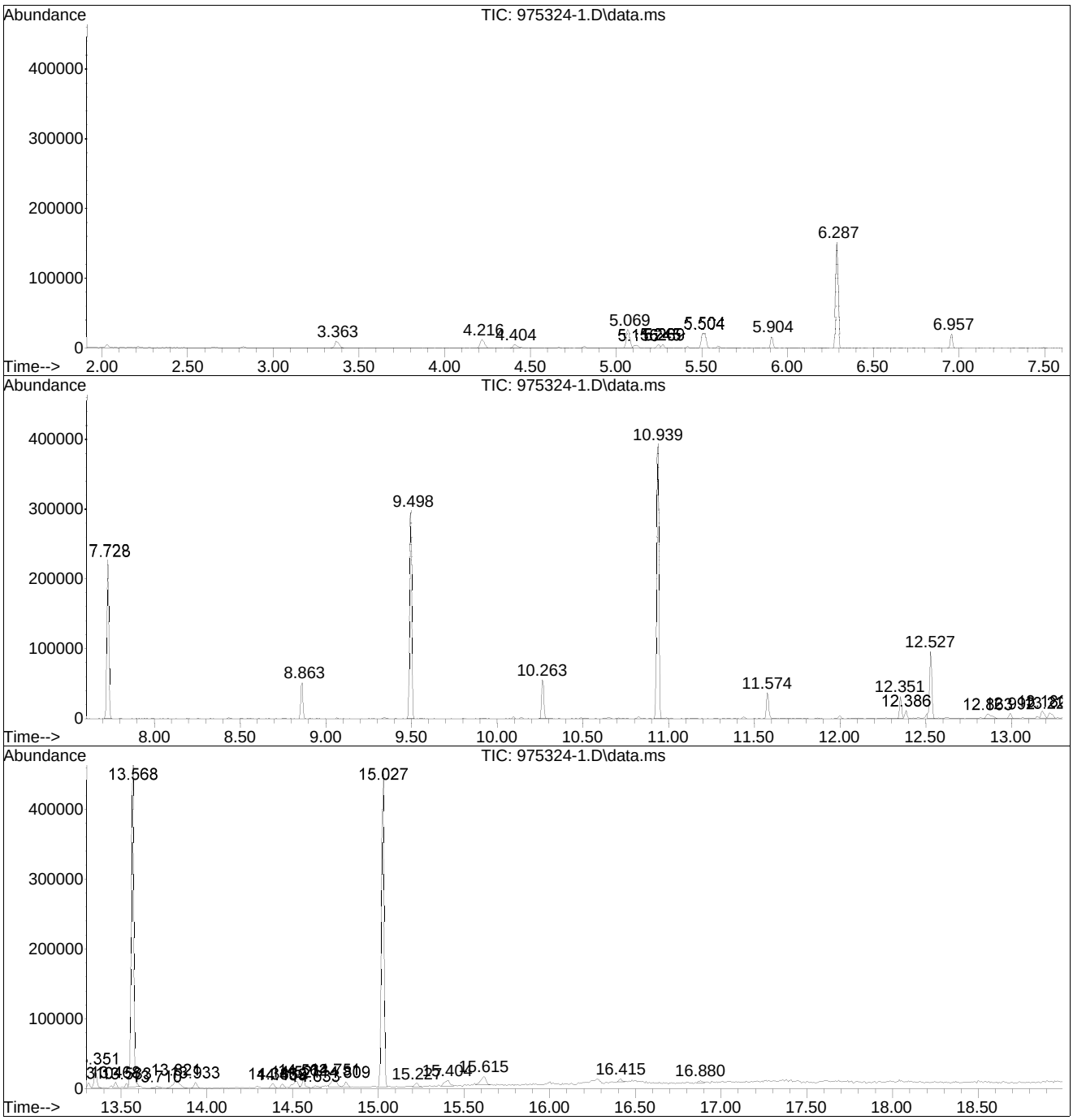
Sum of corrected areas: 2625158

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

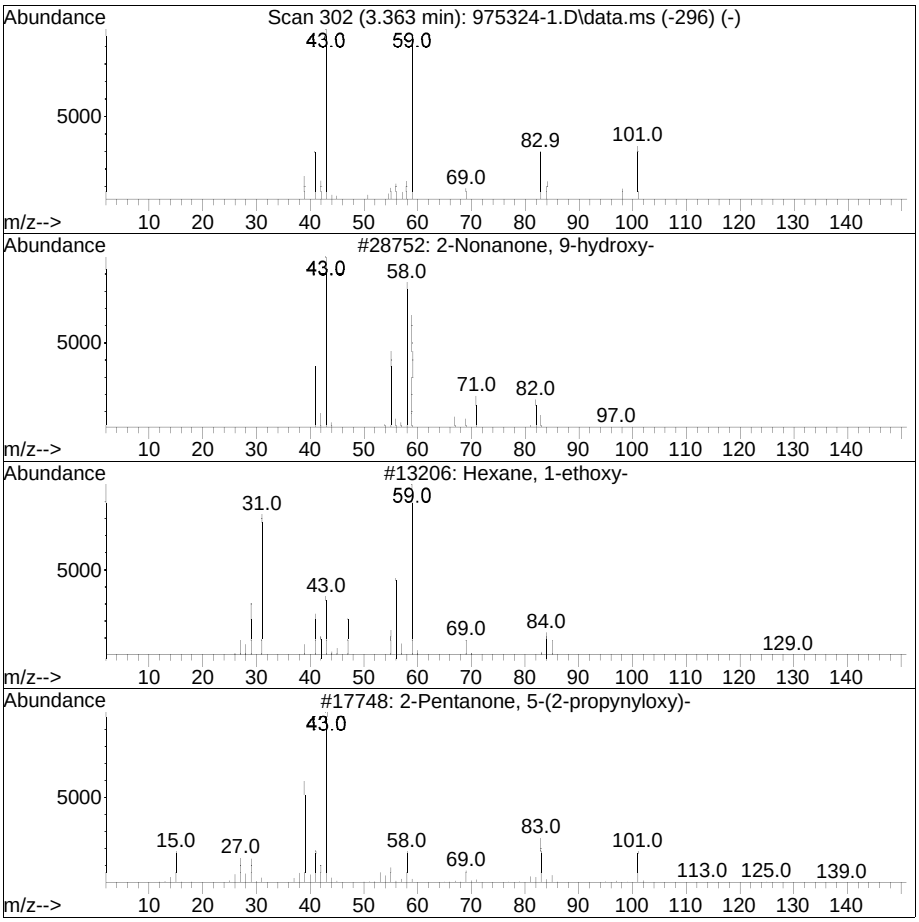
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

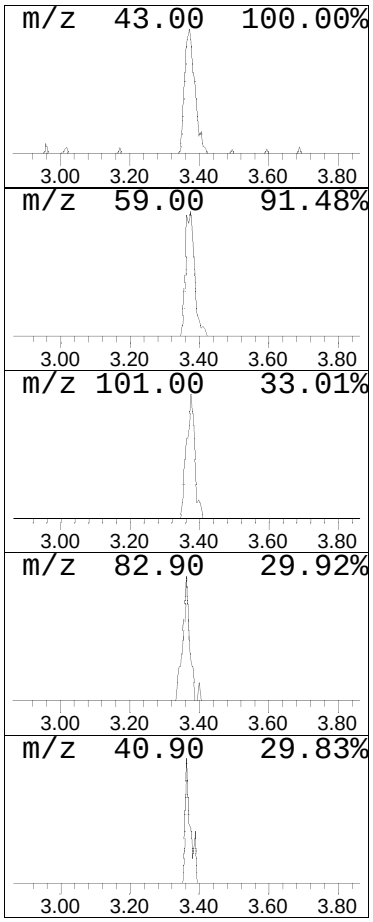
****

Peak Number 1 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.363	0.48 ug/ml	17052	IS2_1,4-Dichlorobenzene-d4	6.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Nonanone, 9-hydroxy-	158	C9H18O2	025368-56-3	40
2	Hexane, 1-ethoxy-	130	C8H18O	005756-43-4	25
3	2-Pentanone, 5-(2-propynyloxy)-	140	C8H12O2	055702-70-0	10
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9





Library Search Compound Report

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

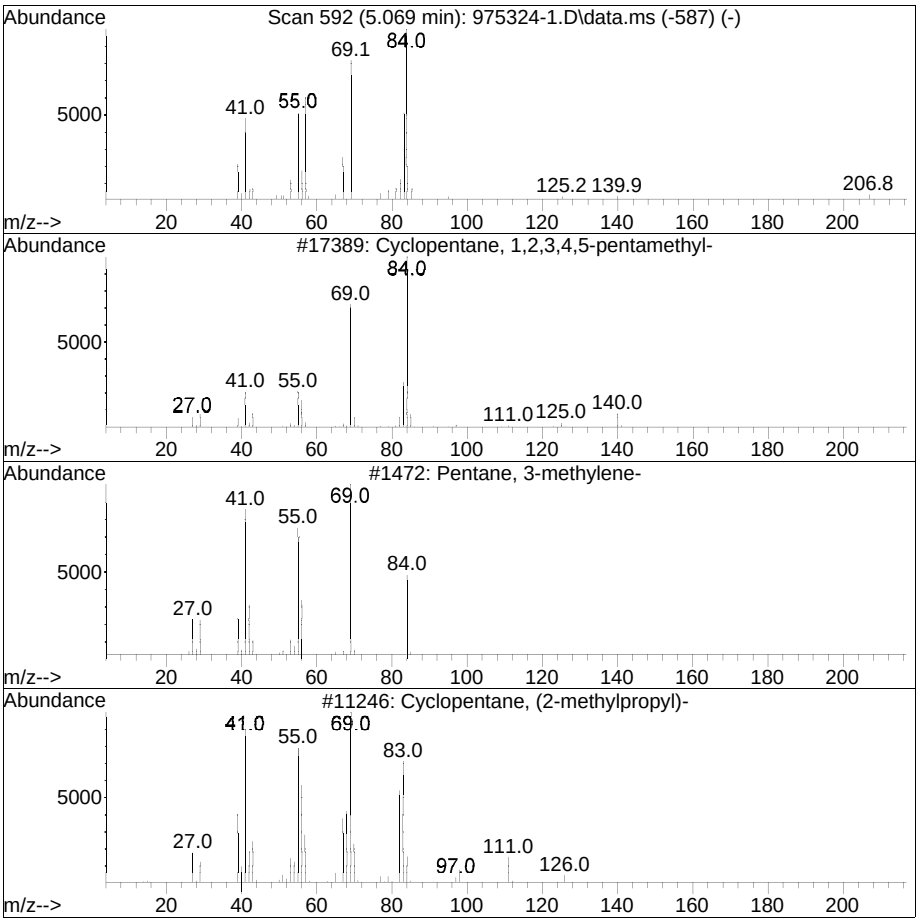
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

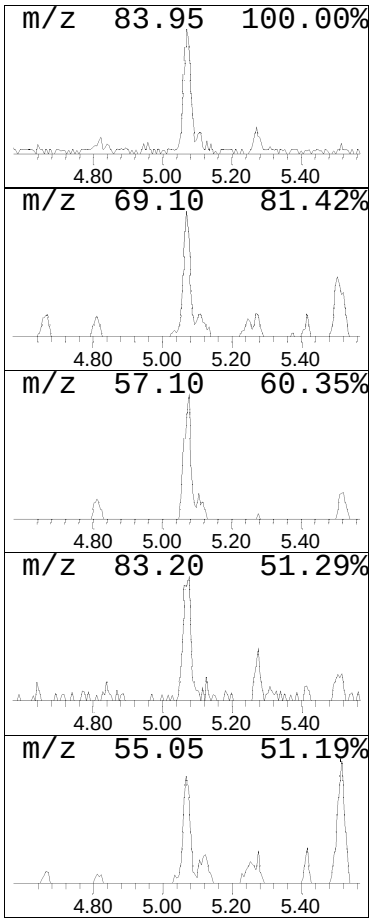
****

Peak Number 2 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.069	0.99 ug/ml	35511	IS2_1,4-Dichlorobenzene-d4	6.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3,4,5-pentamet...	140	C10H20	1000152-79-7	59
2	Pentane, 3-methylene-	84	C6H12	000760-21-4	53
3	Cyclopentane, (2-methylpropyl)-	126	C9H18	003788-32-7	47
4	Furan, 2,3-dihydro-4-methyl-	84	C5H8O	034314-83-5	47
5	Cyclohexane, 1,1,3,5-tetramethyl...	140	C10H20	050876-32-9	47





Library Search Compound Report

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

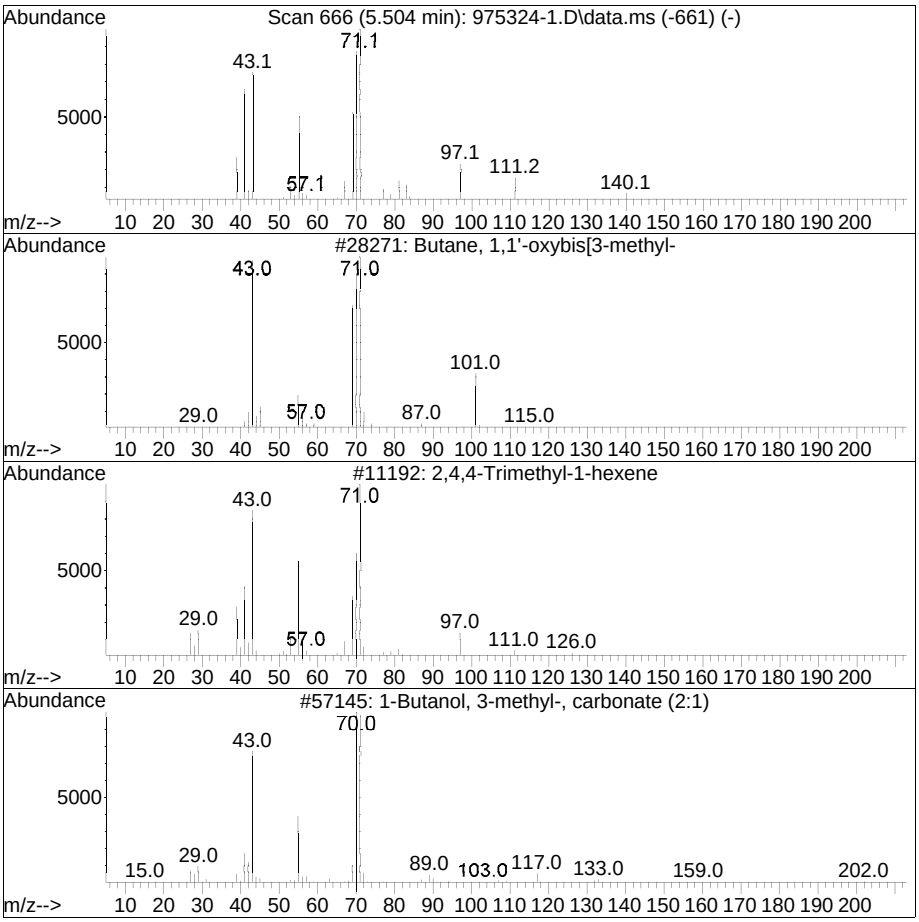
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

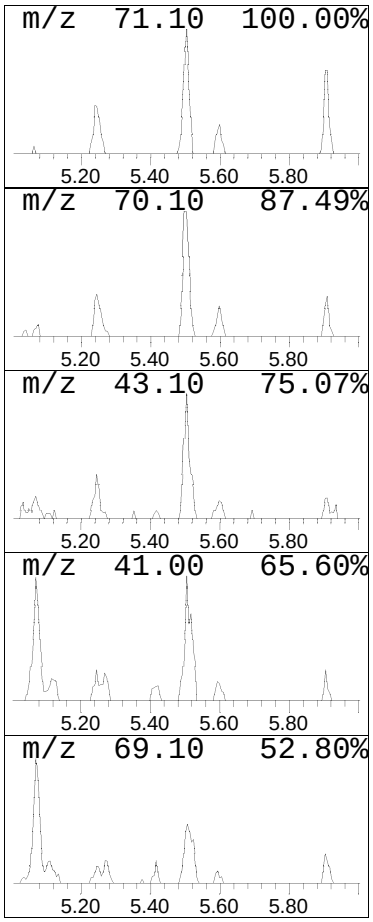
****

Peak Number 3 Unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.504	1.17 ug/ml	41616	IS2_1,4-Dichlorobenzene-d4	6.287

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 1,1'-oxybis[3-methyl-	158	C10H22O	000544-01-4	53
2	2,4,4-Trimethyl-1-hexene	126	C9H18	051174-12-0	50
3	1-Butanol, 3-methyl-, carbonate ...	202	C11H22O3	002050-95-5	42
4	Cyclopentane, 1,1,3,3-tetramethyl-	126	C9H18	050876-33-0	37
5	4-Methyl-cyclohex-2-en-1-ol	112	C7H12O	1000144-17-5	37





Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-1.D
Acq On : 24 Sep 2024 3:38 pm
Operator : SV106:smz
Sample : WG1975324-1,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	3.363	0.5	ug/ml	17052	1	6.287	142802	4.0
Unknown	5.069	1.0	ug/ml	35511	1	6.287	142802	4.0
Unknown	5.504	1.2	ug/ml	41616	1	6.287	142802	4.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-2.D
Acq On : 24 Sep 2024 2:51 pm
Operator : SV106:smz
Sample : WG1975324-2,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 15:34:59 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.286	152	21497	4.000	ug/ml		0.00
Standard Area 1 = 24148			Recovery = 89.02%				
27) IS2_1,4-Dichlorobenzen...	6.286	152	21497	4.000	ug/ml		0.00
Standard Area 3 = 36467			Recovery = 58.95%				
32) IS3_1,4-Dichlorobenzen...	6.286	152	21497	4.000	ug/ml		0.00
Standard Area 2 = 24852			Recovery = 86.50%				
35) IS1_Naphthalene-d8	7.728	136	78441	4.000	ug/ml		0.00
Standard Area 1 = 82755			Recovery = 94.79%				
55) IS2_Naphthalene-d8	7.728	136	78441	4.000	ug/ml		0.00
Standard Area 3 = 130613			Recovery = 60.06%				
63) IS1_Acenaphthene-d10	9.492	164	56529	4.000	ug/ml		0.00
Standard Area 1 = 56844			Recovery = 99.45%				
83) IS2_Acenaphthene-d10	9.492	164	56529	4.000	ug/ml		0.00
Standard Area 3 = 92349			Recovery = 61.21%				
86) IS3_Acenaphthene-d10	9.492	164	56529	4.000	ug/ml		0.00
Standard Area 2 = 61204			Recovery = 92.36%				
88) IS1_Phenanthrene-d10	10.939	188	121527	4.000	ug/ml		0.00
Standard Area 1 = 128731			Recovery = 94.40%				
100) IS3_Phenanthrene-d10	10.939	188	121527	4.000	ug/ml		0.00
Standard Area 2 = 132912			Recovery = 91.43%				
104) IS1_Chrysene-d12	13.568	240	152406	4.000	ug/ml	#	0.00
Standard Area 1 = 146328			Recovery = 104.15%				
113) IS1_Perylene-d12	15.027	264	165983	4.000	ug/ml		0.00
Standard Area 1 = 171391			Recovery = 96.84%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.216	112	5132	0.826	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 41.30%				
7) Phenol-d6	5.910	99	5438	0.639	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 31.95%				
19) Nitrobenzene-d5	6.957	82	5130	0.590	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 59.00%				
46) 2-Fluorobiphenyl	8.863	172	12186	0.605	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 60.50%				
79) 2,4,6-Tribromophenol	10.269	330	5272	1.496	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 74.80%				

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-2.D
Acq On : 24 Sep 2024 2:51 pm
Operator : SV106:smz
Sample : WG1975324-2,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 15:34:59 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.527	244	24267	0.743	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 74.30%

Target Compounds						Qvalue
6) 2-Chlorophenol	6.010	128	7561	1.092	ug/ml#	84
8) Phenol	5.922	94	5774	0.654	ug/ml	94
14) Bis(2-chloroisopropyl)...	6.686	45	4816	0.414	ug/ml#	1
15) 2-Methylphenol	6.675	108	7730	1.216	ug/ml	96
17) n-Nitrosodi-n-propylamine	6.833	70	6948	1.223	ug/ml#	88
18) 3-Methylphenol/4-Methy...	6.869	108	7844	1.141	ug/ml	99
20) Nitrobenzene	6.975	77	10298	1.166	ug/ml	93
21) Isophorone	7.263	82	18268	1.232	ug/ml#	93
22) 2-Nitrophenol	7.333	139	4470	1.202	ug/ml#	83
23) 2,4-Dimethylphenol	7.445	107	7171	1.025	ug/ml	92
24) Bis(2-chloroethoxy)met...	7.545	93	11105	1.162	ug/ml	98
25) 2,4-Dichlorophenol	7.604	162	7852	1.185	ug/ml	94
28) Benzaldehyde	5.698	105	6768	1.061	ug/ml	95
29) Acetophenone	6.798	105	13969	1.204	ug/ml#	73
38) 4-Chloroaniline	7.839	65	3497M3	1.055	ug/ml	
40) p-Chloro-m-cresol	8.369	107	8787	1.308	ug/ml	98
43) Hexachlorocyclopentadiene	8.639	237	4764	0.724	ug/ml	89
44) 2,4,6-Trichlorophenol	8.769	196	7056	1.197	ug/ml	96
45) 2,4,5-Trichlorophenol	8.798	196	7892	1.250	ug/ml	94
48) 2-Nitroaniline	9.069	138	6764	1.409	ug/ml	86
51) Dimethyl phthalate	9.280	163	24241	1.250	ug/ml	99
53) 2,6-Dinitrotoluene	9.322	165	5682	1.361	ug/ml#	87
60) Caprolactam	8.151	55	949	0.230	ug/ml#	17
61) 1,2,4,5-Tetrachloroben...	8.645	216	12763	1.187	ug/ml	97
62) Biphenyl	8.951	154	24816	1.167	ug/ml	98
64) 3-Nitroaniline	9.475	138	6339	1.404	ug/ml	98
66) 2,4-Dinitrophenol	9.580	184	503	0.167	ug/ml#	25
67) Dibenzofuran	9.698	168	30922	1.130	ug/ml	91
68) 2,4-Dinitrotoluene	9.710	165	8307	1.238	ug/ml	95
69) 4-Nitrophenol	9.663	65	2711	0.593	ug/ml#	78
72) Diethyl phthalate	9.980	149	25996	1.203	ug/ml	96
74) 4-Chlorophenyl phenyl ...	10.063	204	15096	1.333	ug/ml#	84
75) 4-Nitroaniline	10.063	138	6087	1.295	ug/ml#	71

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-2.D
Acq On : 24 Sep 2024 2:51 pm
Operator : SV106:smz
Sample : WG1975324-2,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 15:34:59 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) 4,6-Dinitro-o-cresol	10.098	198	1682	0.447 ug/ml#	49
77) NDPA/DPA	10.174	169	22684	1.271 ug/ml	99
80) 4-Bromophenyl phenyl e...	10.533	248	9210	1.303 ug/ml#	79
87) Atrazine	10.721	200	8464	1.177 ug/ml	98
91) Carbazole	11.180	167	40378	1.306 ug/ml	100
92) Di-n-butylphthalate	11.586	149	44495	1.225 ug/ml	98
97) Butyl benzyl phthalate	13.063	149	23294	1.394 ug/ml#	96
106) 3,3'-Dichlorobenzidine	13.562	252	26186	1.405 ug/ml#	96
108) Bis(2-ethylhexyl)phtha...	13.710	149	33862	1.088 ug/ml	97
109) Di-n-octylphthalate	14.392	149	58394	1.133 ug/ml#	67

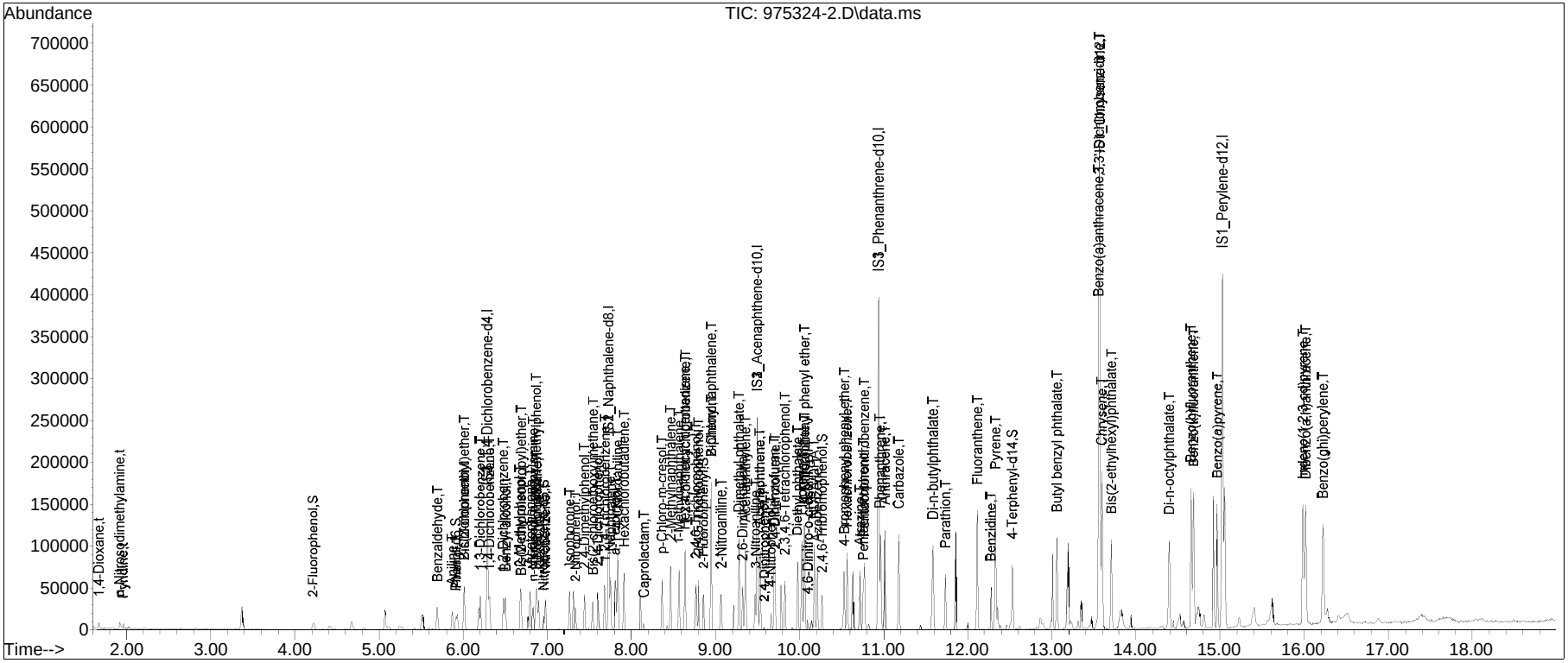
(#) = qualifier out of range (m) = manual integration (+) = signals summed

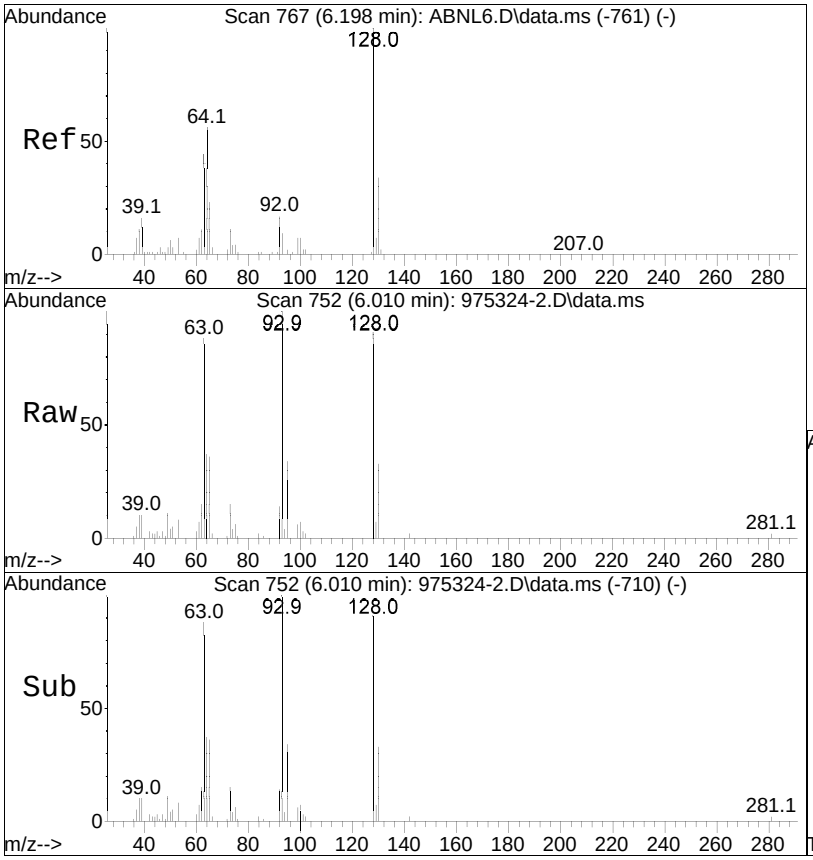
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-2.D
Acq On : 24 Sep 2024 2:51 pm
Operator : SV106:smz
Sample : WG1975324-2,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 24 15:34:59 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90924.D•

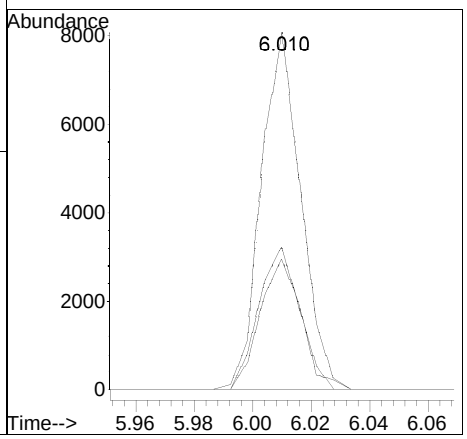


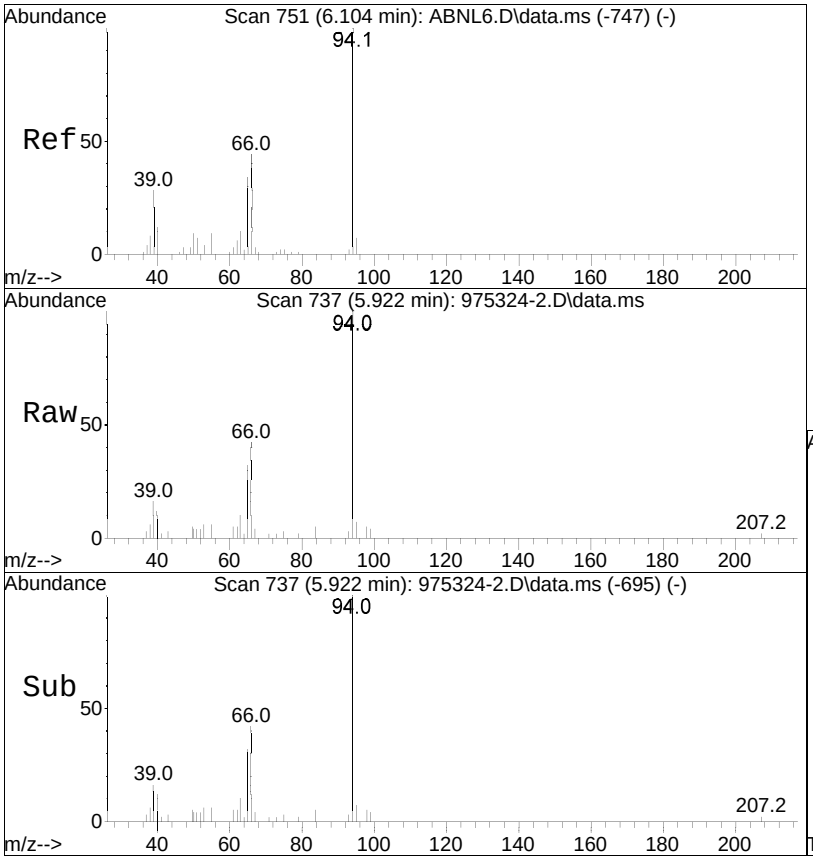


#6
2-Chlorophenol
Concen: 1.09 ug/ml
RT: 6.010 min Scan# 752
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:128 Resp: 7561

Ion	Ratio	Lower	Upper
128	100		
64	41.6	45.1	67.7#
130	38.2	26.2	39.4

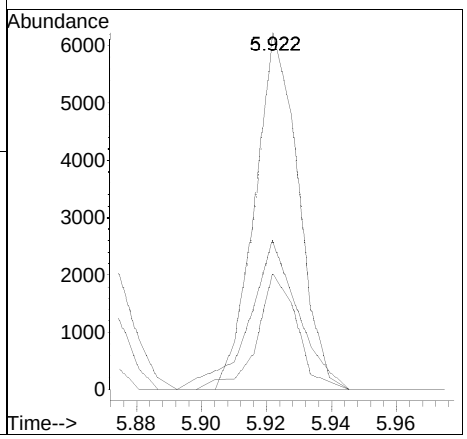


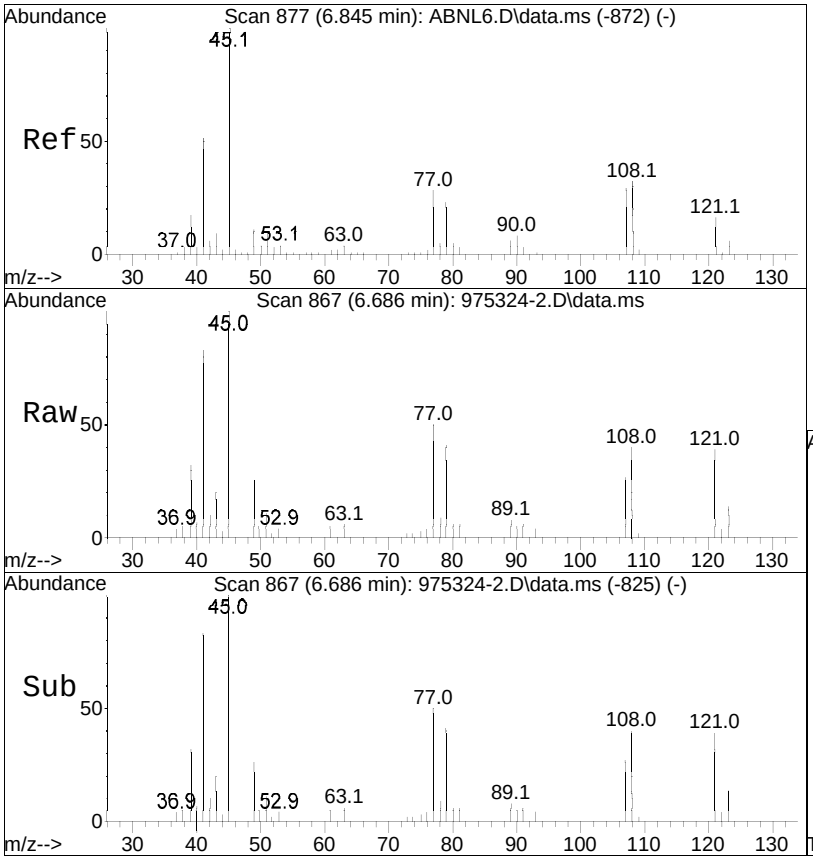


#8
Phenol
Concen: 0.65 ug/ml
RT: 5.922 min Scan# 737
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion: 94 Resp: 5774

Ion	Ratio	Lower	Upper
94	100		
65	30.0	26.0	39.0
66	47.4	33.8	50.8

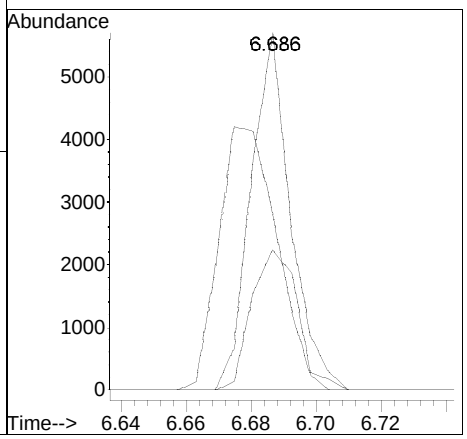


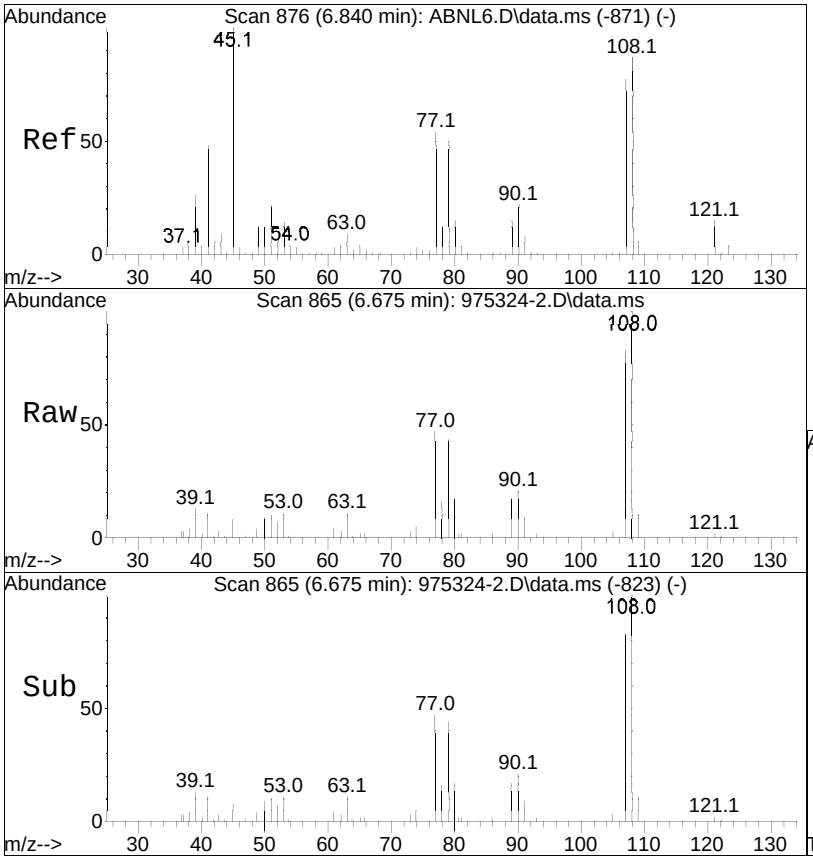


#14
Bis(2-chloroisopropyl)ether
Concen: 0.41 ug/ml
RT: 6.686 min Scan# 867
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion: 45 Resp: 4816

Ion	Ratio	Lower	Upper
45	100		
121	45.6	9.8	14.6#
77	107.4	6.1	9.1#

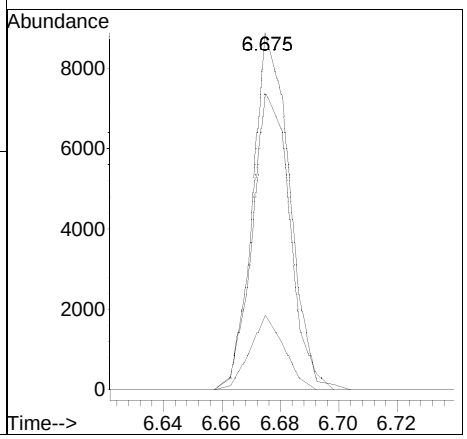


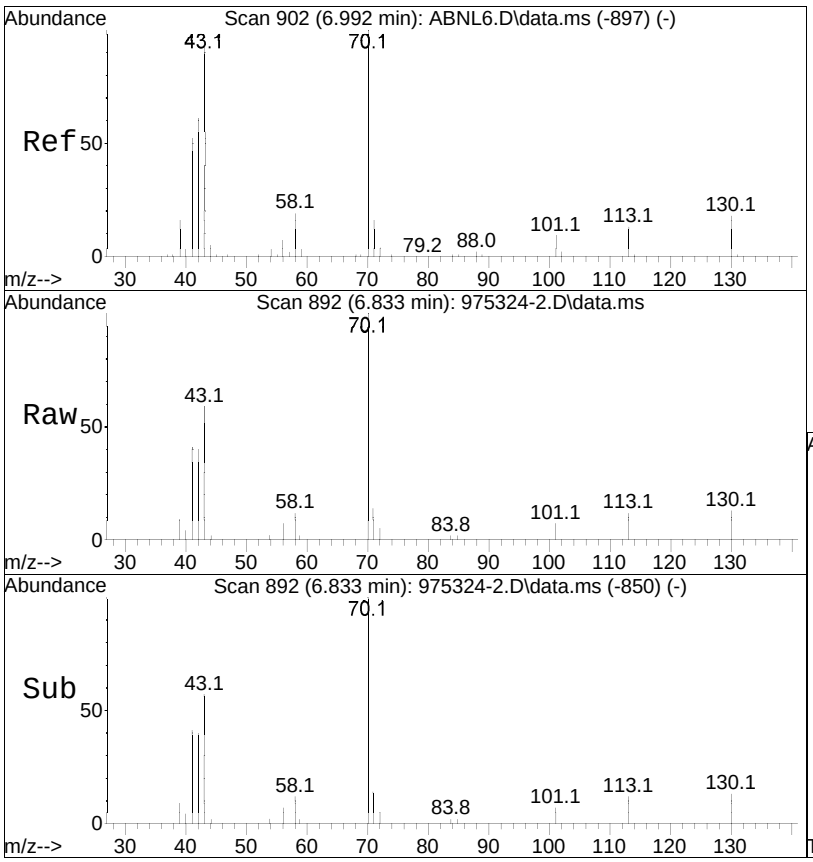


#15
2-Methylphenol
Concen: 1.22 ug/ml
RT: 6.675 min Scan# 865
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:108 Resp: 7730

Ion	Ratio	Lower	Upper
108	100		
107	85.1	70.7	106.1
90	19.5	18.7	28.1

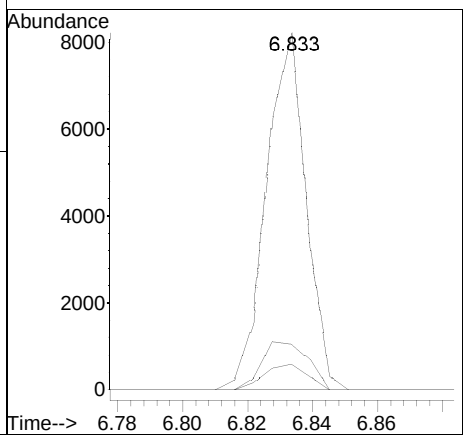


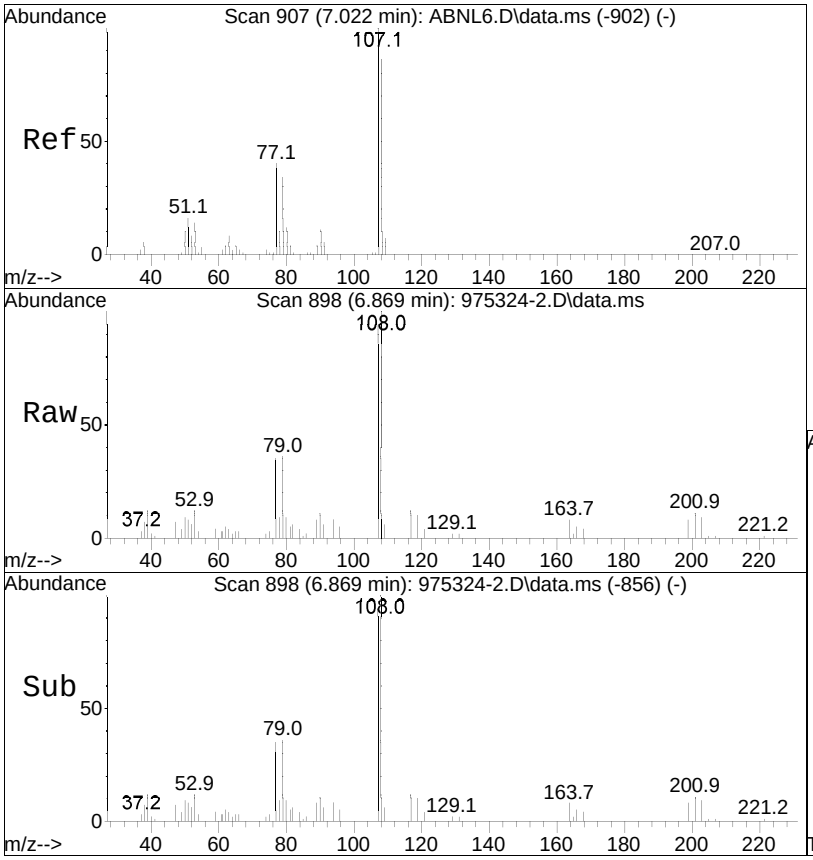


#17
n-Nitrosodi-n-propylamine
Concen: 1.22 ug/ml
RT: 6.833 min Scan# 892
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion: 70 Resp: 6948

Ion	Ratio	Lower	Upper
70	100		
130	15.8	18.2	27.4#
101	7.8	7.8	11.8#

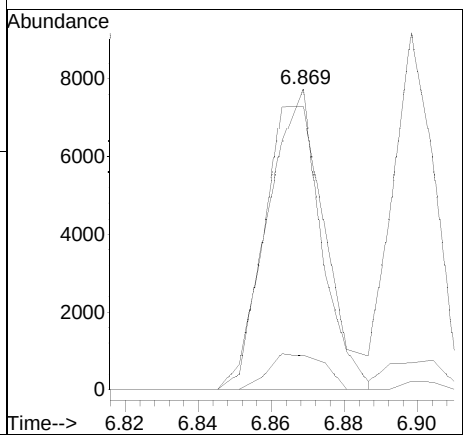


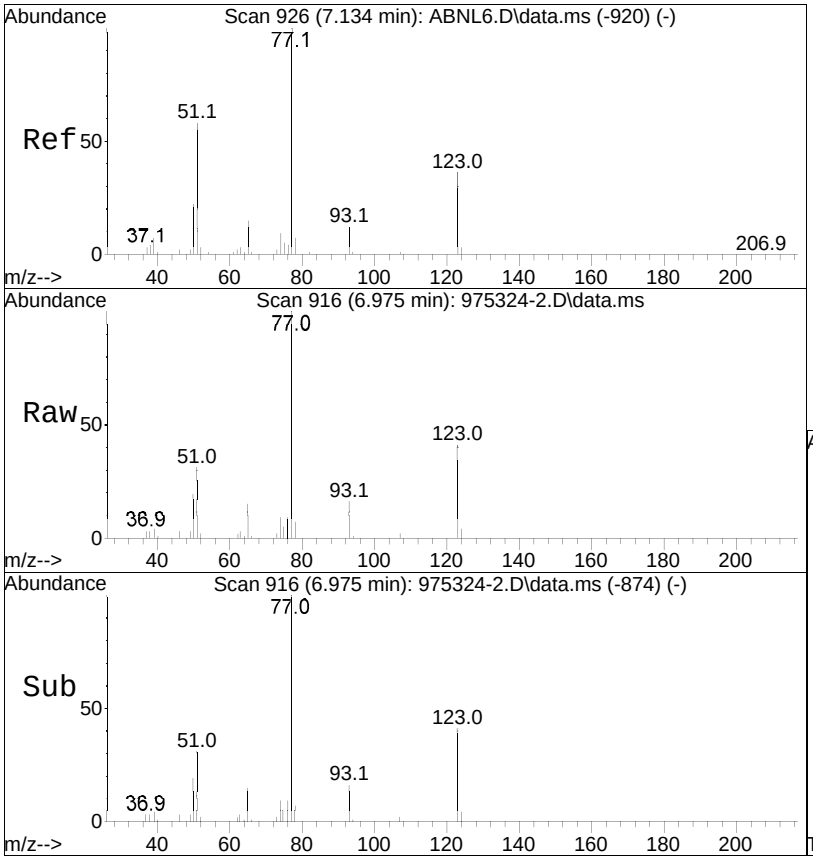


#18
3-Methylphenol/4-Methylphenol
Concen: 1.14 ug/ml
RT: 6.869 min Scan# 898
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:108 Resp: 7844

Ion	Ratio	Lower	Upper
108	100		
107	111.2	88.6	132.8
90	12.6	8.8	13.2

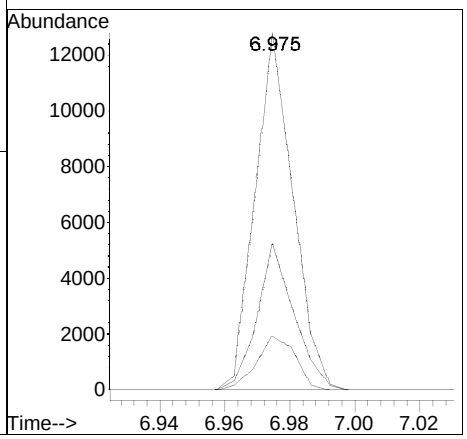


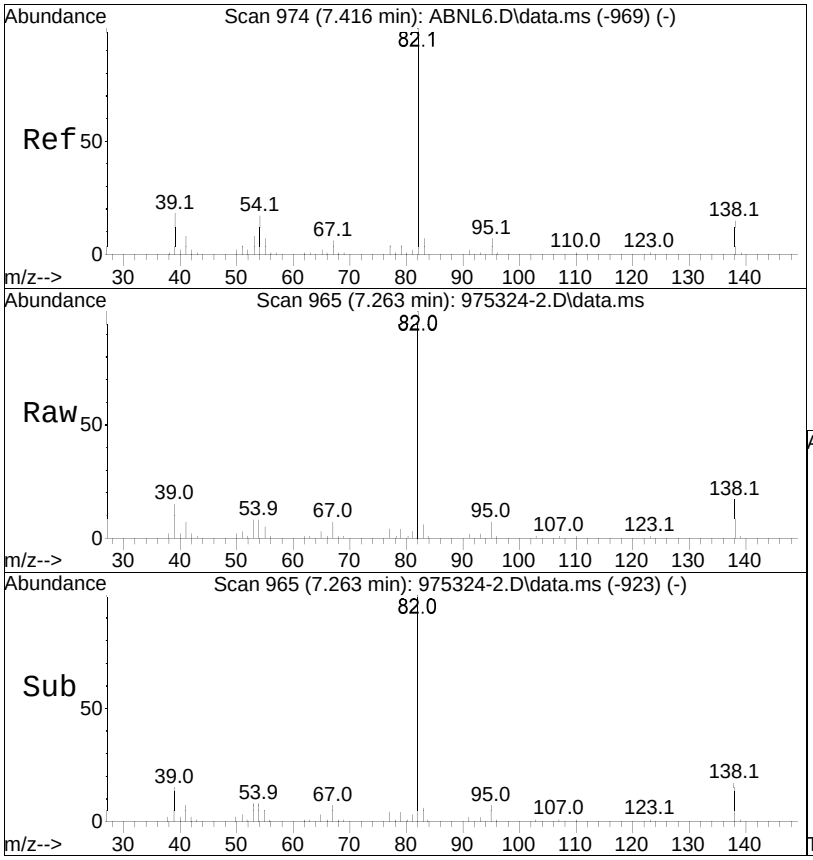


#20
Nitrobenzene
Concen: 1.17 ug/ml
RT: 6.975 min Scan# 916
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion: 77 Resp: 10298

Ion	Ratio	Lower	Upper
77	100		
123	40.1	36.3	54.5
65	15.6	11.6	17.4

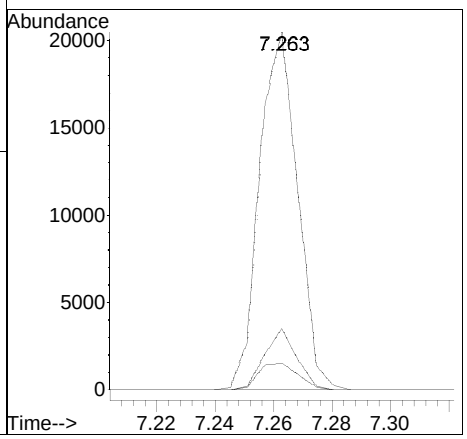


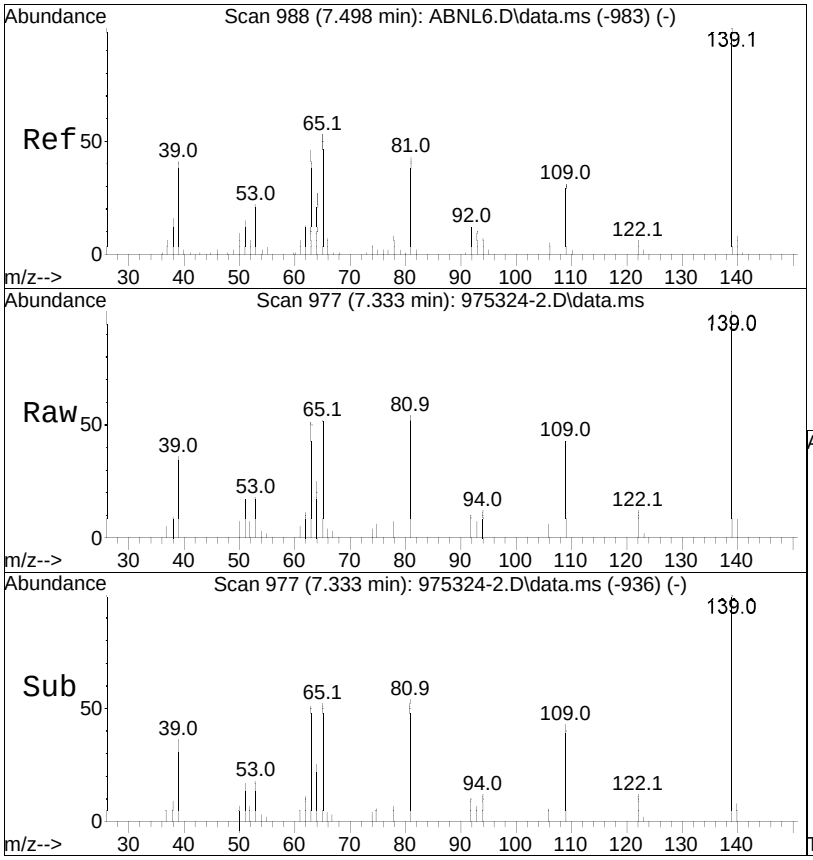


#21
Isophorone
Concen: 1.23 ug/ml
RT: 7.263 min Scan# 965
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion: 82 Resp: 18268

Ion	Ratio	Lower	Upper
82	100		
138	14.5	14.7	22.1#
95	7.9	5.2	7.8#

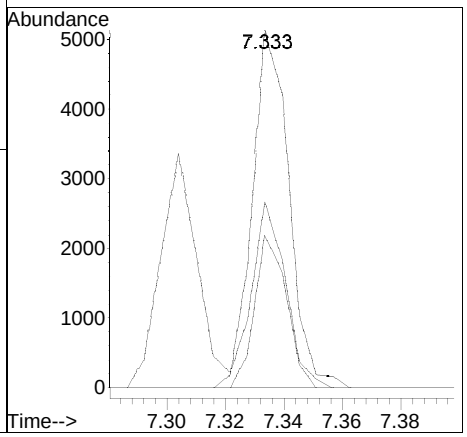


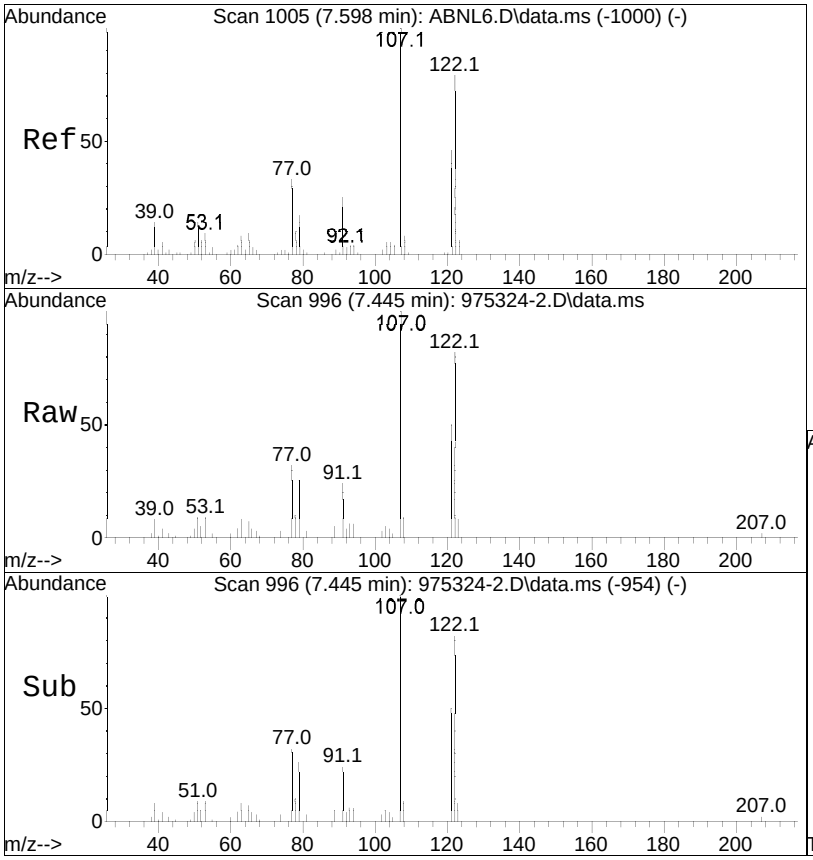


#22
2-Nitrophenol
Concen: 1.20 ug/ml
RT: 7.333 min Scan# 977
Delta R.T. -0.006 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:139 Resp: 4470

Ion	Ratio	Lower	Upper
139	100		
109	37.0	19.4	29.0#
65	47.3	46.1	69.1

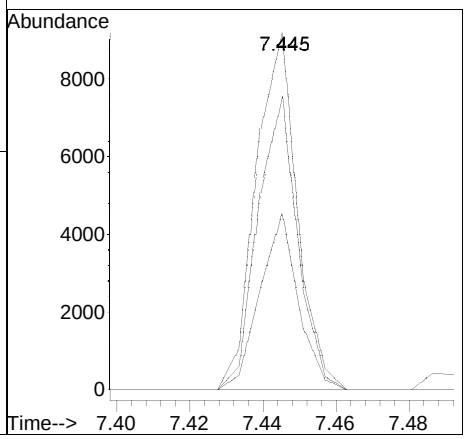


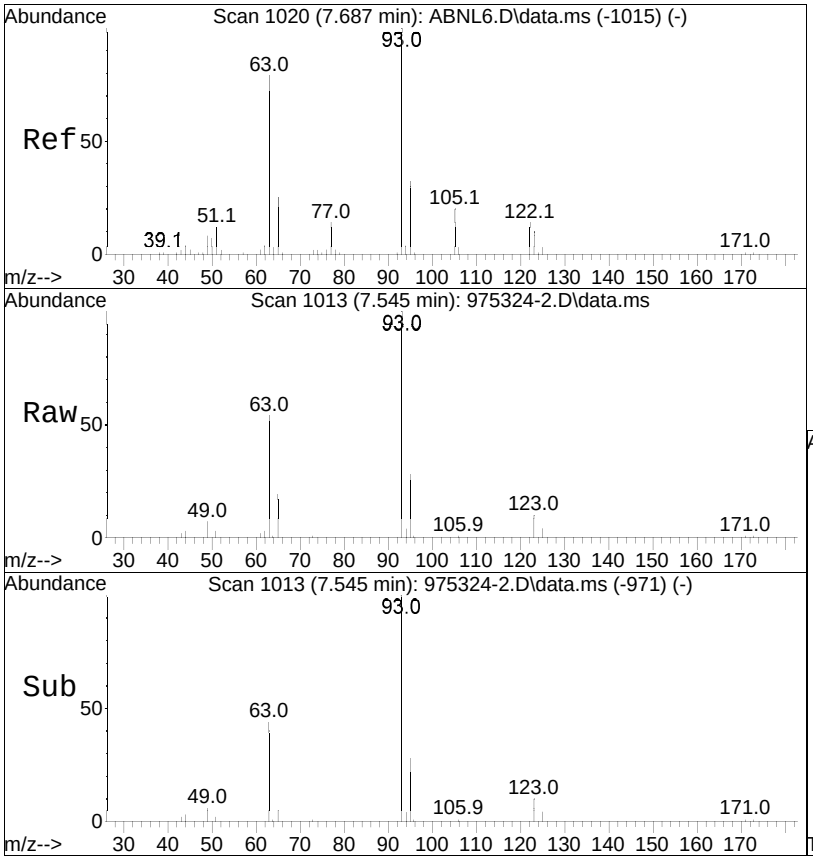


#23
2,4-Dimethylphenol
Concen: 1.03 ug/ml
RT: 7.445 min Scan# 996
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:107 Resp: 7171

Ion	Ratio	Lower	Upper
107	100		
121	46.0	40.0	60.0
122	79.1	70.2	105.4

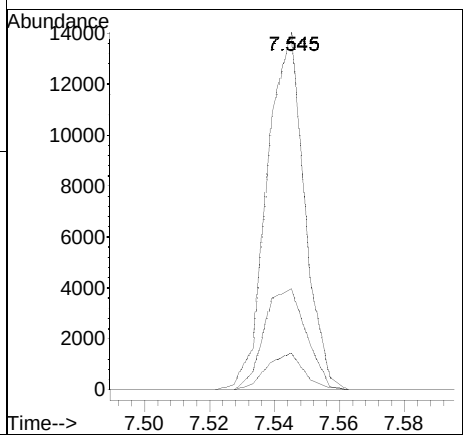


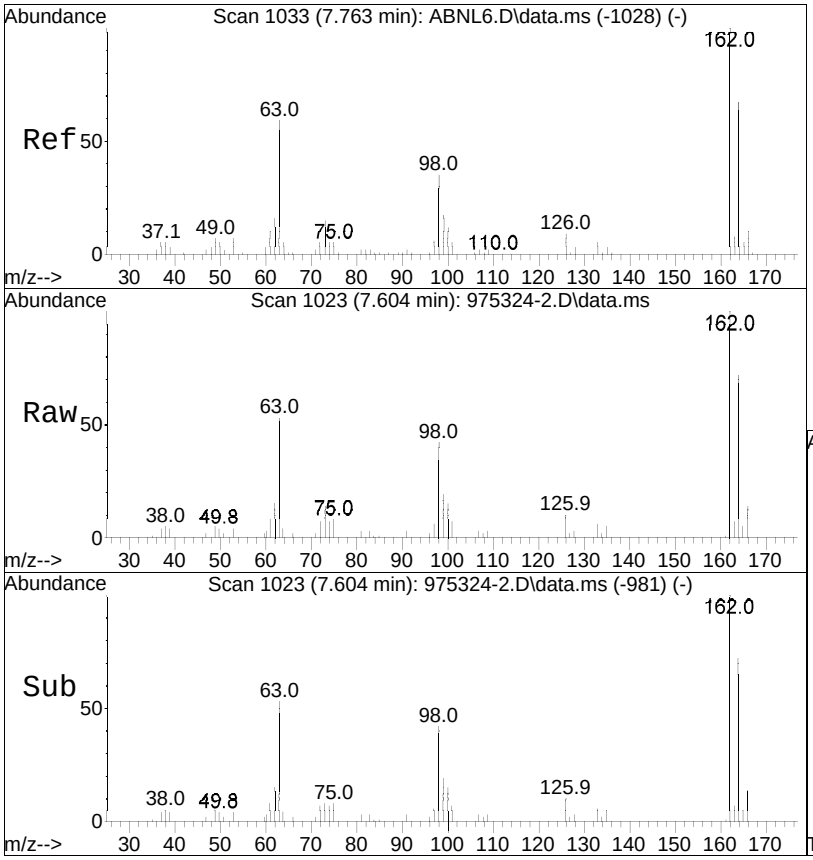


#24
Bis(2-chloroethoxy)methane
Concen: 1.16 ug/ml
RT: 7.545 min Scan# 1013
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion: 93 Resp: 11105

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.8	38.8
123	10.5	10.1	15.1

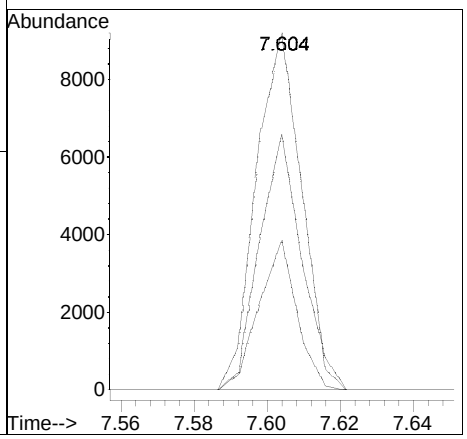


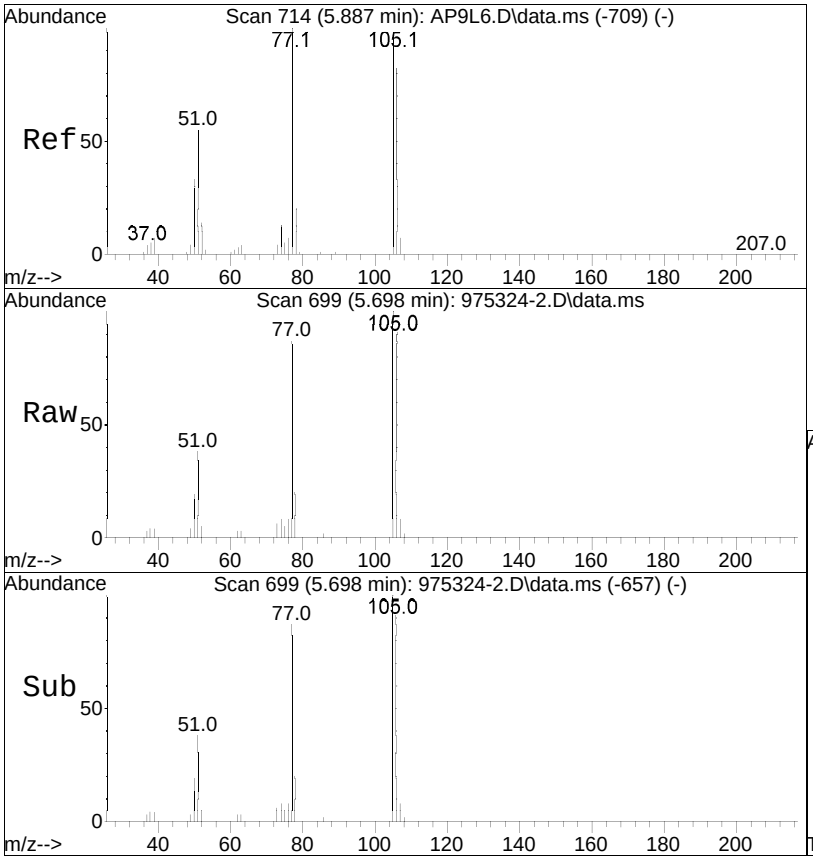


#25
2,4-Dichlorophenol
Concen: 1.18 ug/ml
RT: 7.604 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:162 Resp: 7852

Ion	Ratio	Lower	Upper
162	100		
164	67.2	51.0	76.4
98	35.3	32.2	48.2

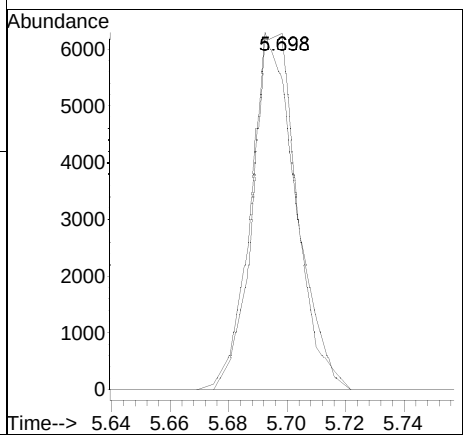


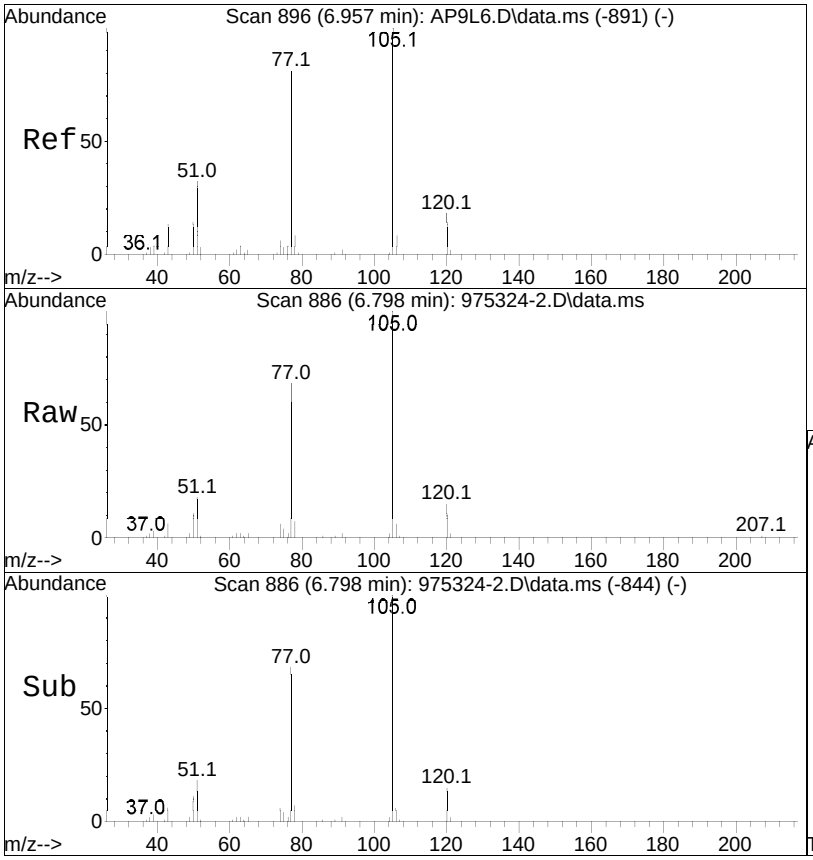


#28
Benzaldehyde
Concen: 1.06 ug/ml
RT: 5.698 min Scan# 699
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:105 Resp: 6768

Ion	Ratio	Lower	Upper
105	100		
77	98.2	82.2	123.4

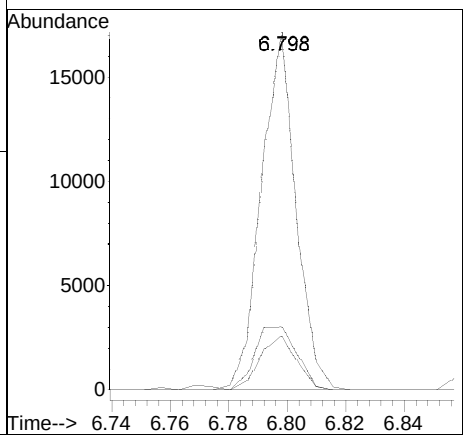


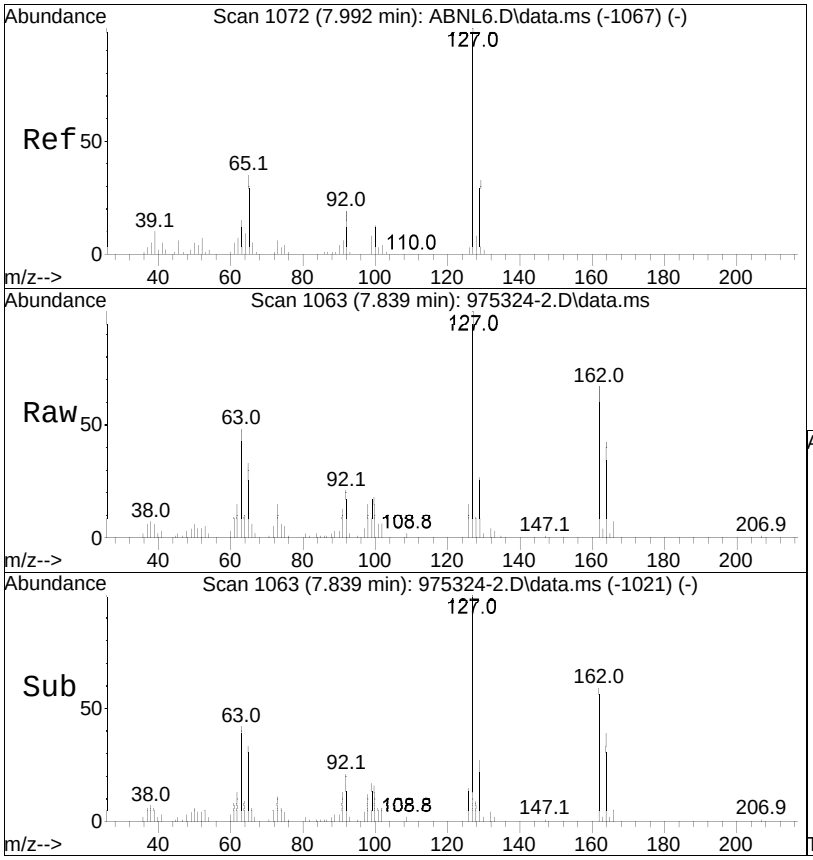


#29
Acetophenone
Concen: 1.20 ug/ml
RT: 6.798 min Scan# 886
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:105 Resp: 13969

Ion	Ratio	Lower	Upper
105	100		
120	16.0	20.5	30.7#
51	22.9	34.9	52.3#

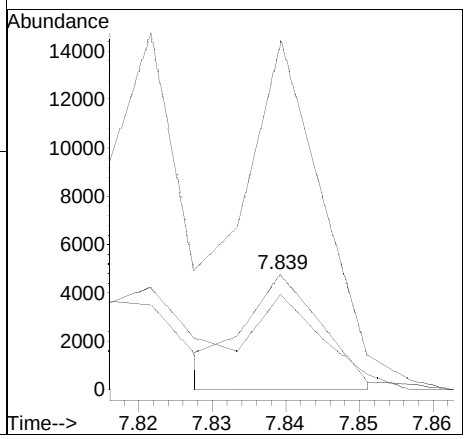


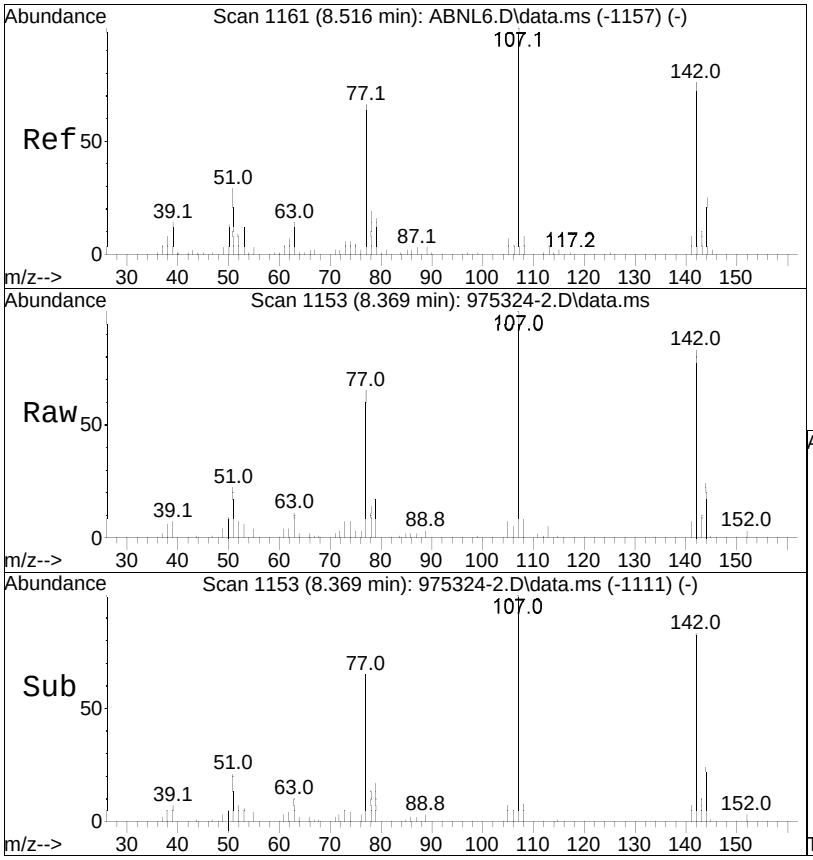


#38
4-Chloroaniline
Concen: 1.05 ug/ml M3
RT: 7.839 min Scan# 1063
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion: 65 Resp: 3497

Ion	Ratio	Lower	Upper
65	100		
127	305.3	237.6	356.4
129	120.3	76.3	114.5#

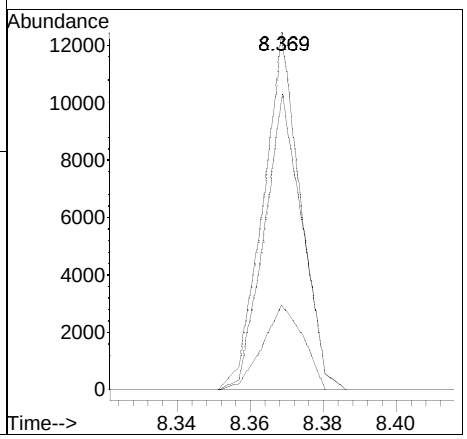


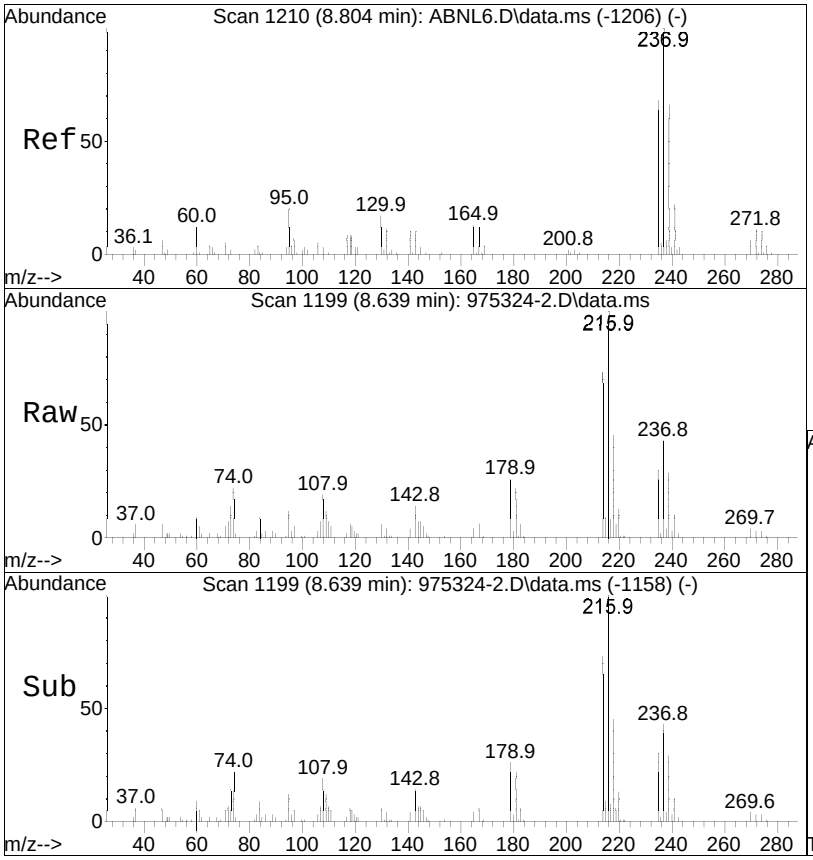


#40
p-Chloro-m-cresol
Concen: 1.31 ug/ml
RT: 8.369 min Scan# 1153
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:107 Resp: 8787

Ion	Ratio	Lower	Upper
107	100		
144	25.9	20.9	31.3
142	84.5	66.1	99.1

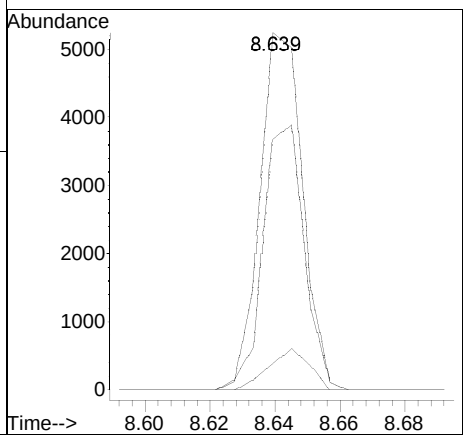


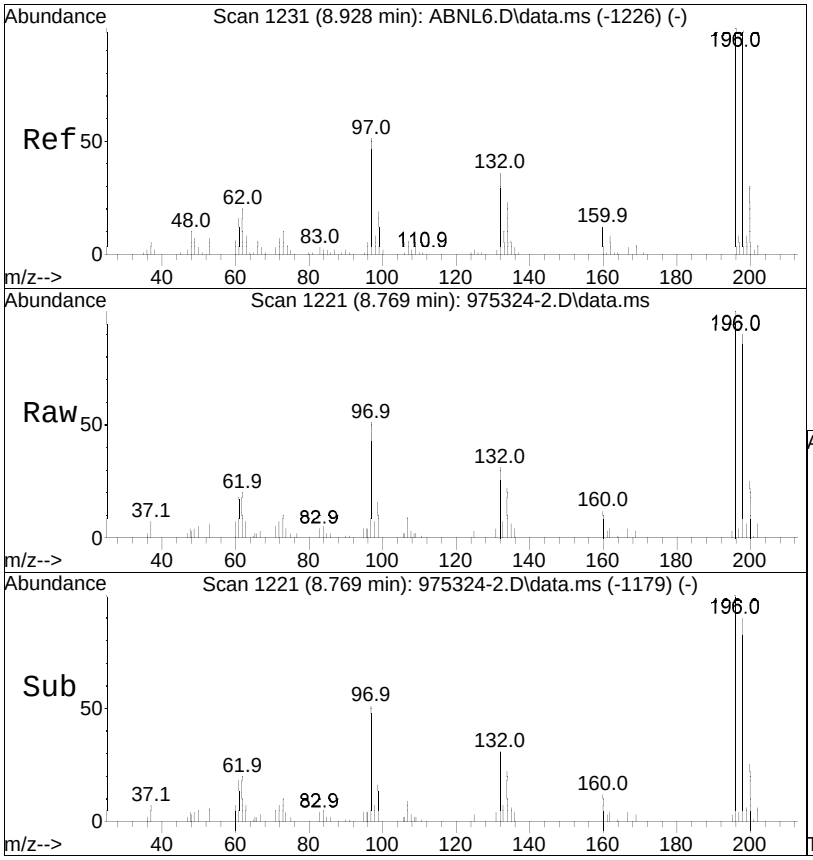


#43
Hexachlorocyclopentadiene
Concen: 0.72 ug/ml
RT: 8.639 min Scan# 1199
Delta R.T. -0.006 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:237 Resp: 4764

Ion	Ratio	Lower	Upper
237	100		
235	71.5	49.7	74.5
272	11.0	9.8	14.6

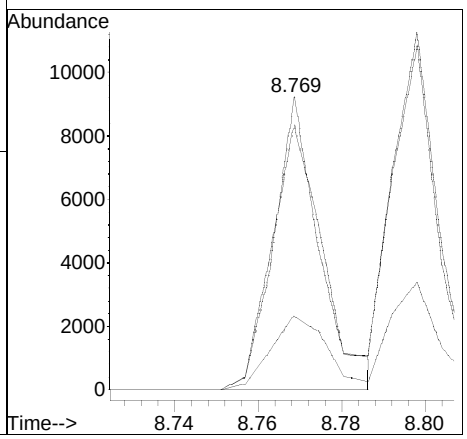


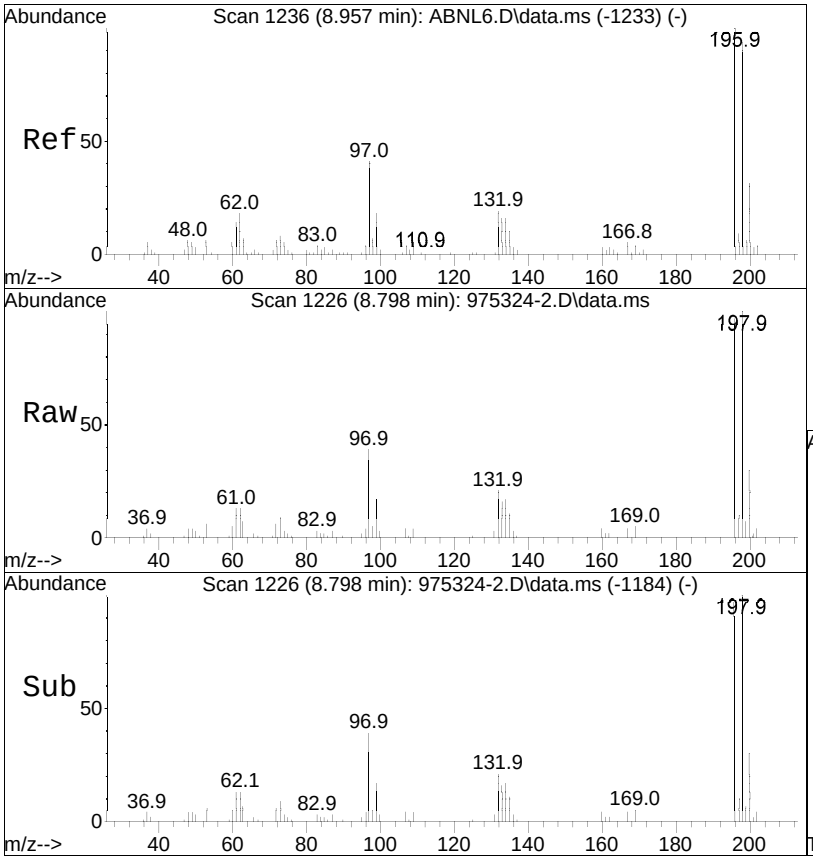


#44
2,4,6-Trichlorophenol
Concen: 1.20 ug/ml
RT: 8.769 min Scan# 1221
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:196 Resp: 7056

Ion	Ratio	Lower	Upper
196	100		
198	101.5	77.5	116.3
200	31.3	23.8	35.6

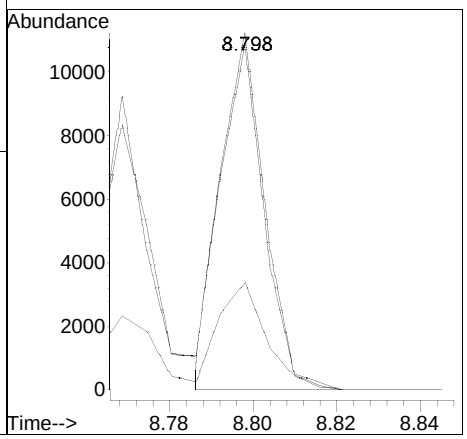


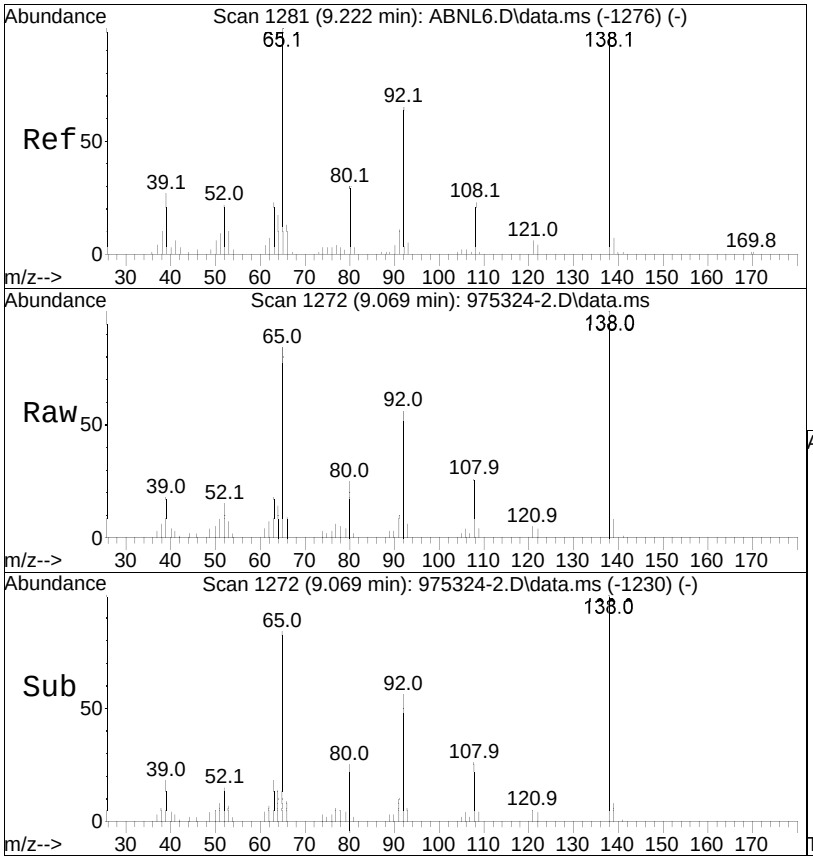


#45
2,4,5-Trichlorophenol
Concen: 1.25 ug/ml
RT: 8.798 min Scan# 1226
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:196 Resp: 7892

Ion	Ratio	Lower	Upper
196	100		
200	34.4	25.4	38.0
198	104.3	78.0	117.0

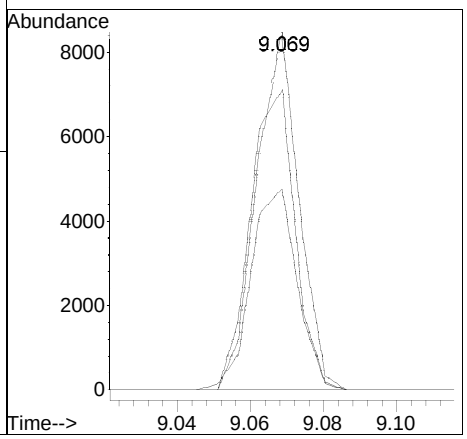


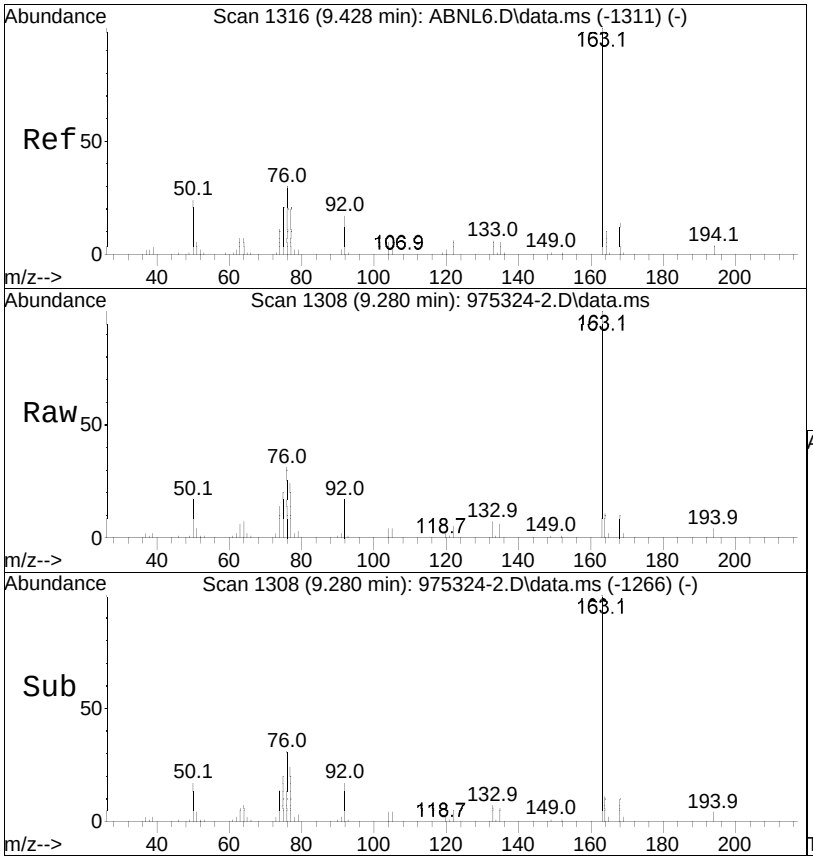


#48
2-Nitroaniline
Concen: 1.41 ug/ml
RT: 9.069 min Scan# 1272
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:138 Resp: 6764

Ion	Ratio	Lower	Upper
138	100		
92	61.4	53.5	80.3
65	88.7	86.3	129.5

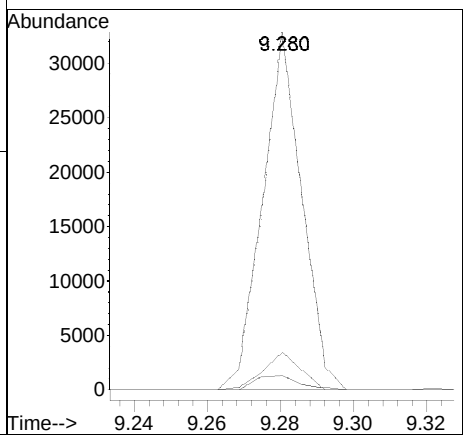


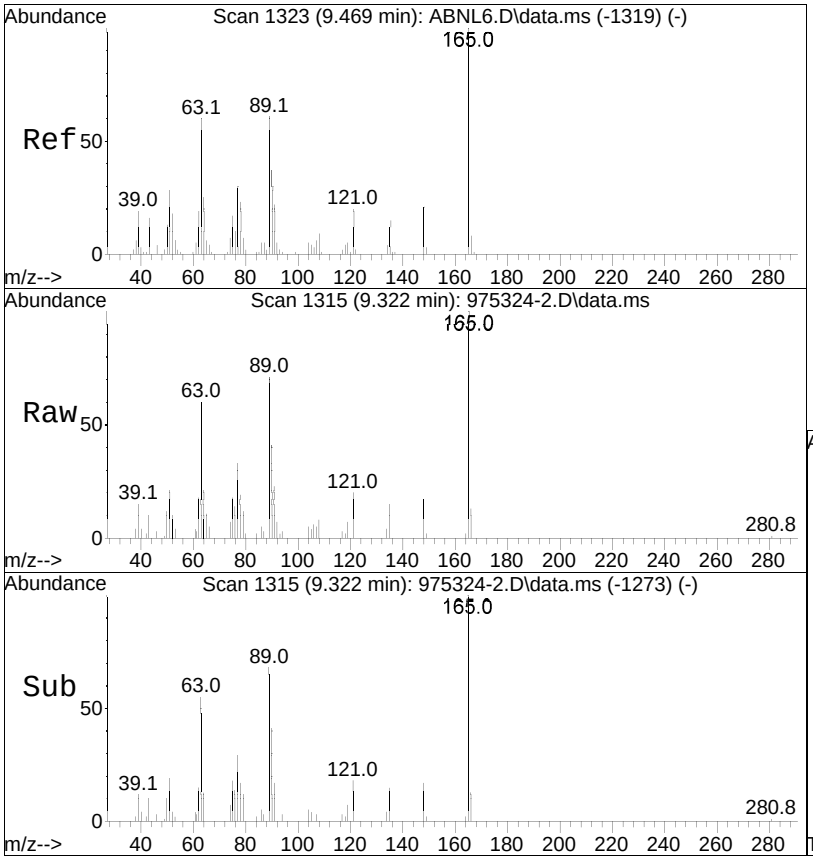


#51
Dimethyl phthalate
Concen: 1.25 ug/ml
RT: 9.280 min Scan# 1308
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:163 Resp: 24241

Ion	Ratio	Lower	Upper
163	100		
194	4.6	3.5	5.3
164	10.2	7.9	11.9

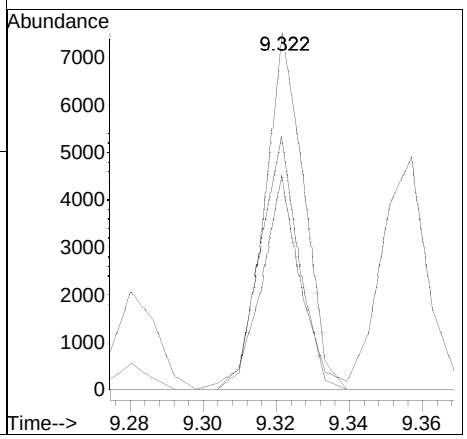


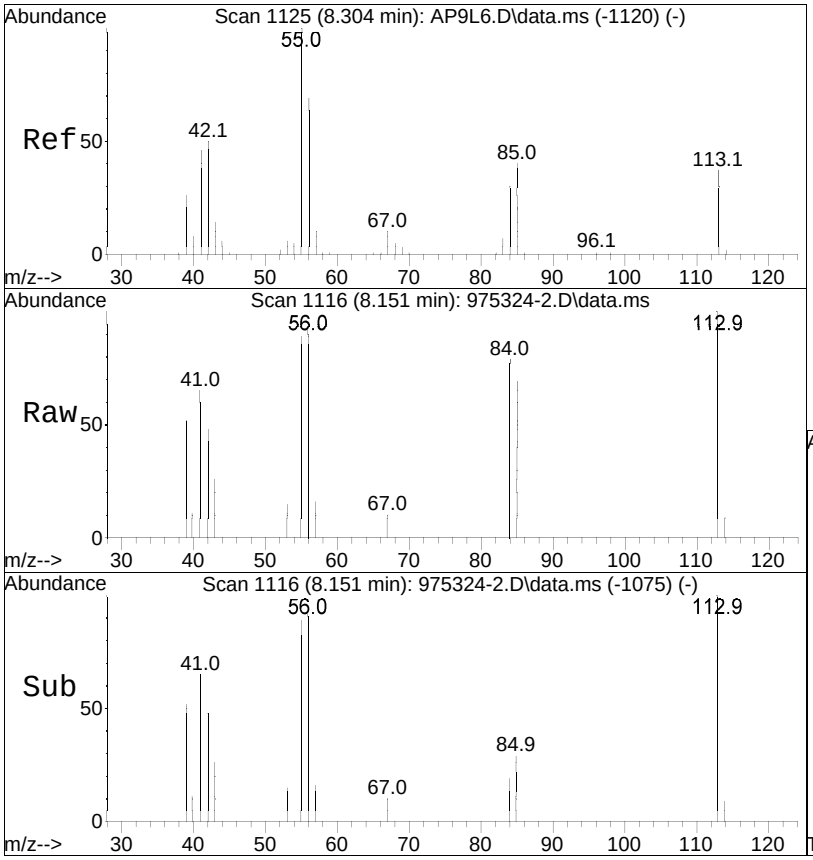


#53
2,6-Dinitrotoluene
Concen: 1.36 ug/ml
RT: 9.322 min Scan# 1315
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:165 Resp: 5682

Ion	Ratio	Lower	Upper
165	100		
89	68.3	54.2	81.2
63	59.0	64.2	96.2#

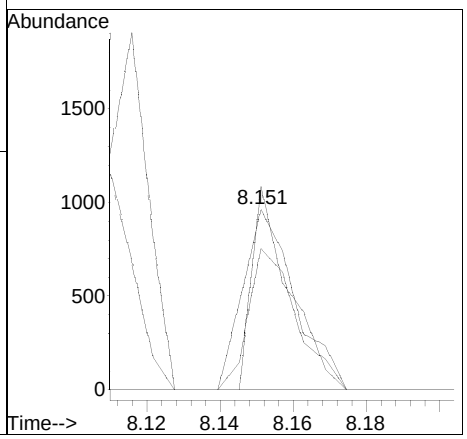


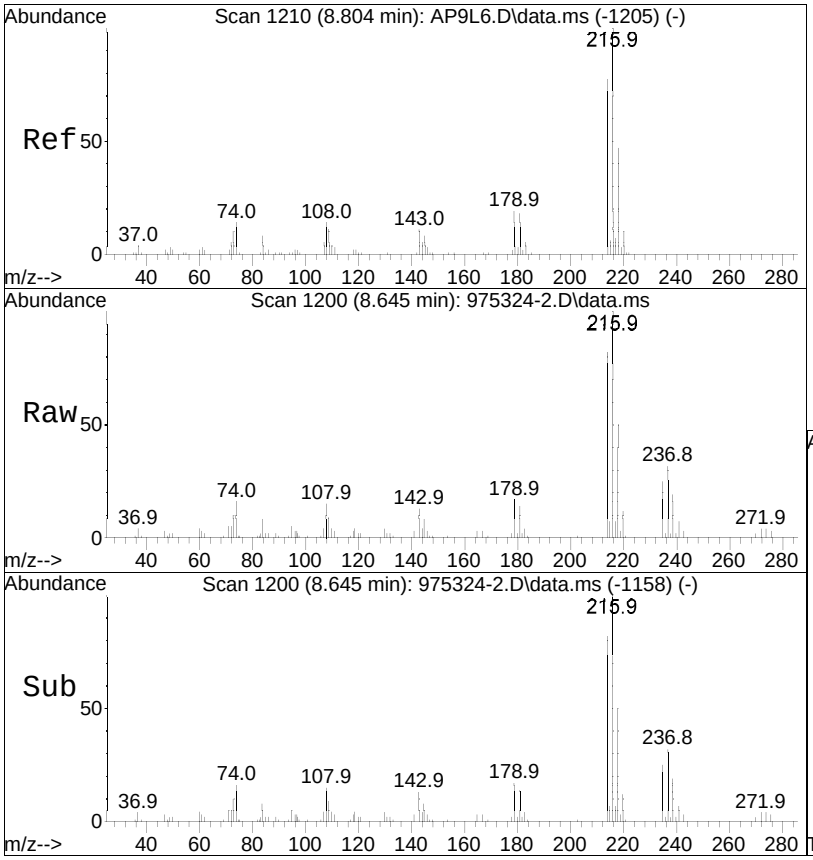


#60
Caprolactam
Concen: 0.23 ug/ml
RT: 8.151 min Scan# 1116
Delta R.T. -0.006 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion: 55 Resp: 949

Ion	Ratio	Lower	Upper
55	100		
85	72.2	19.8	29.6#
113	81.1	29.6	44.4#

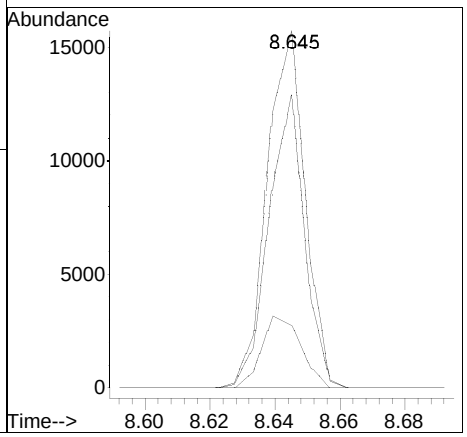


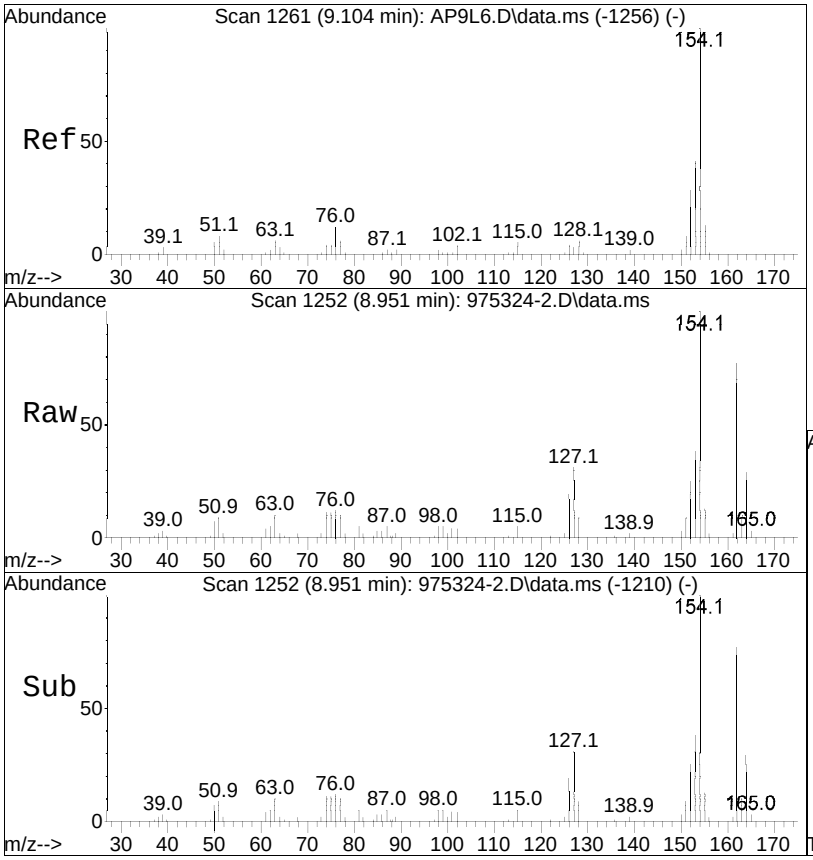


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.19 ug/ml
RT: 8.645 min Scan# 1200
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:216 Resp: 12763

Ion	Ratio	Lower	Upper
216	100		
214	77.2	63.7	95.5
179	20.8	19.0	28.6

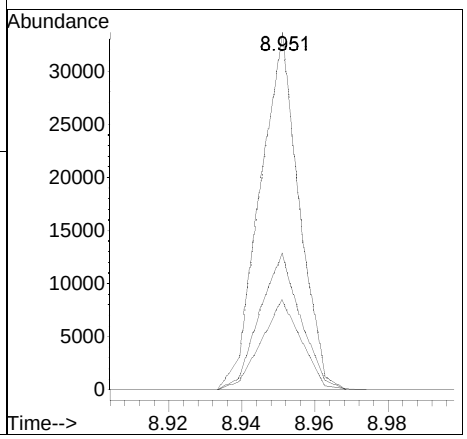


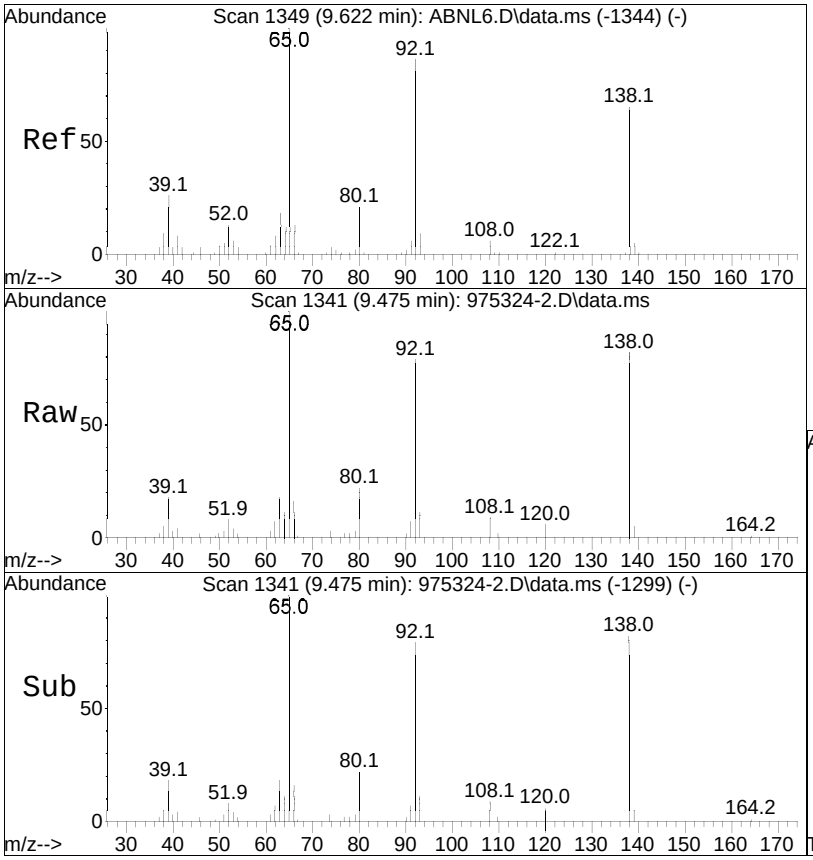


#62
Biphenyl
Concen: 1.17 ug/ml
RT: 8.951 min Scan# 1252
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:154 Resp: 24816

Ion	Ratio	Lower	Upper
154	100		
153	40.1	32.3	48.5
152	26.2	22.5	33.7

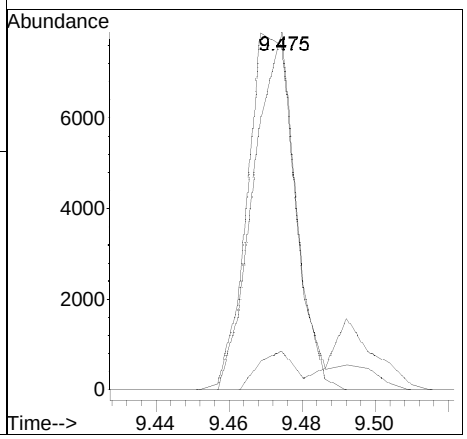


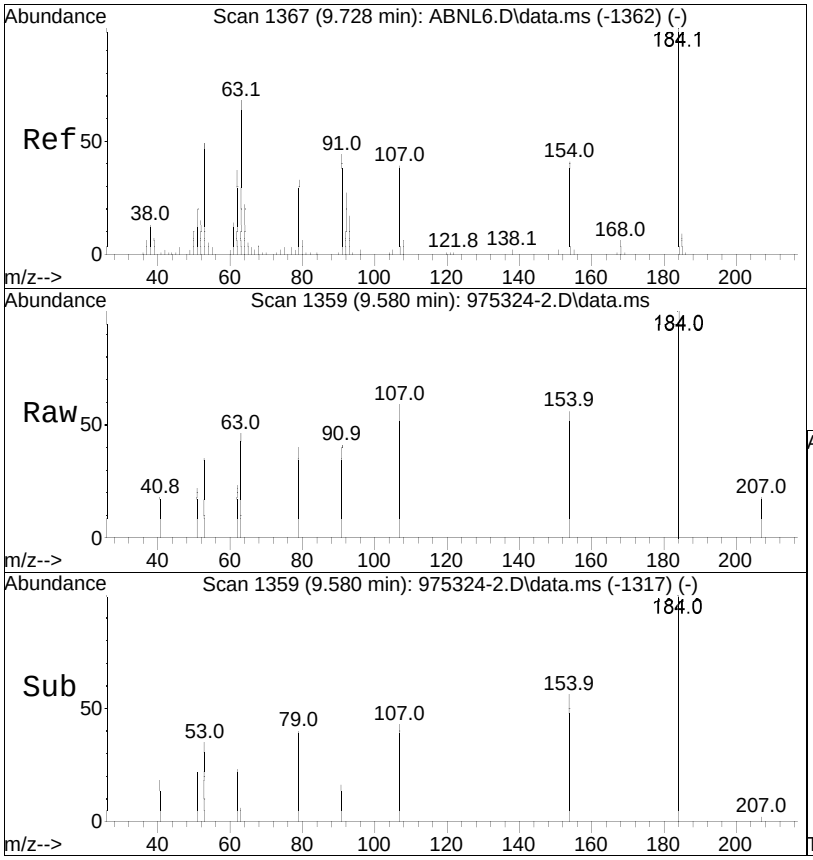


#64
3-Nitroaniline
Concen: 1.40 ug/ml
RT: 9.475 min Scan# 1341
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:138 Resp: 6339

Ion	Ratio	Lower	Upper
138	100		
92	118.2	93.4	140.2
108	9.6	9.5	14.3

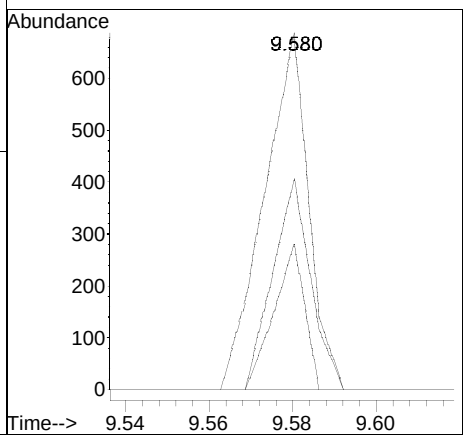


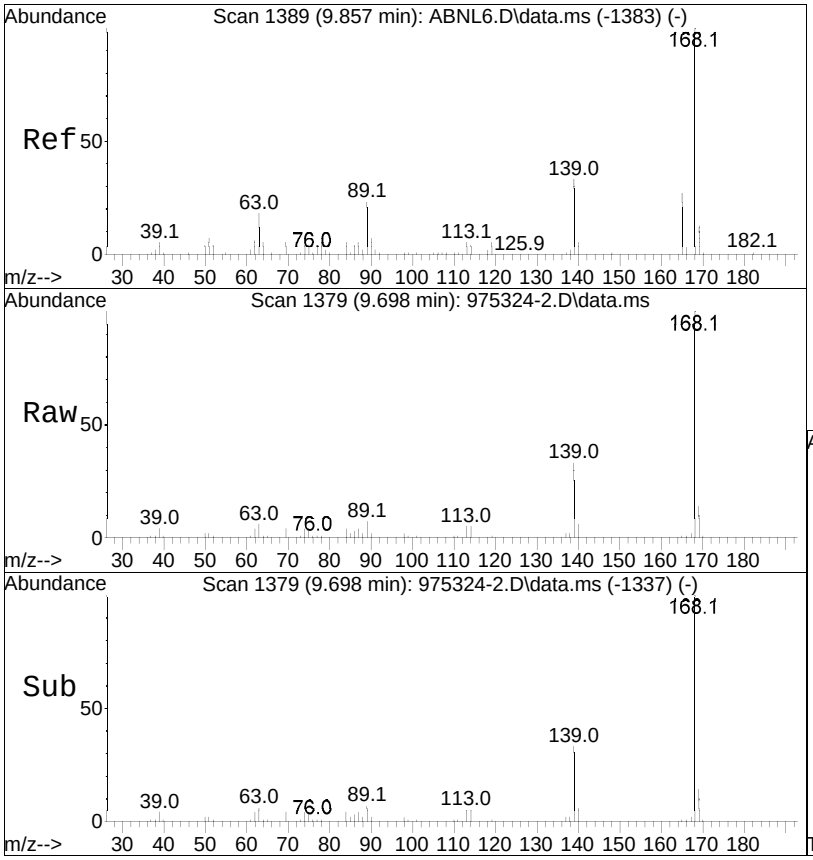


#66
2,4-Dinitrophenol
Concen: 0.17 ug/ml
RT: 9.580 min Scan# 1359
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:184 Resp: 503

Ion	Ratio	Lower	Upper
184	100		
107	0.0	37.7	56.5#
91	0.0	46.3	69.5#

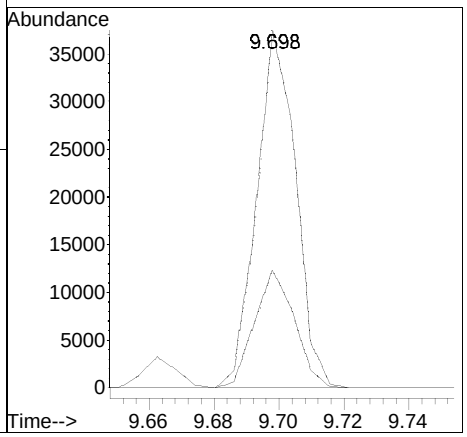


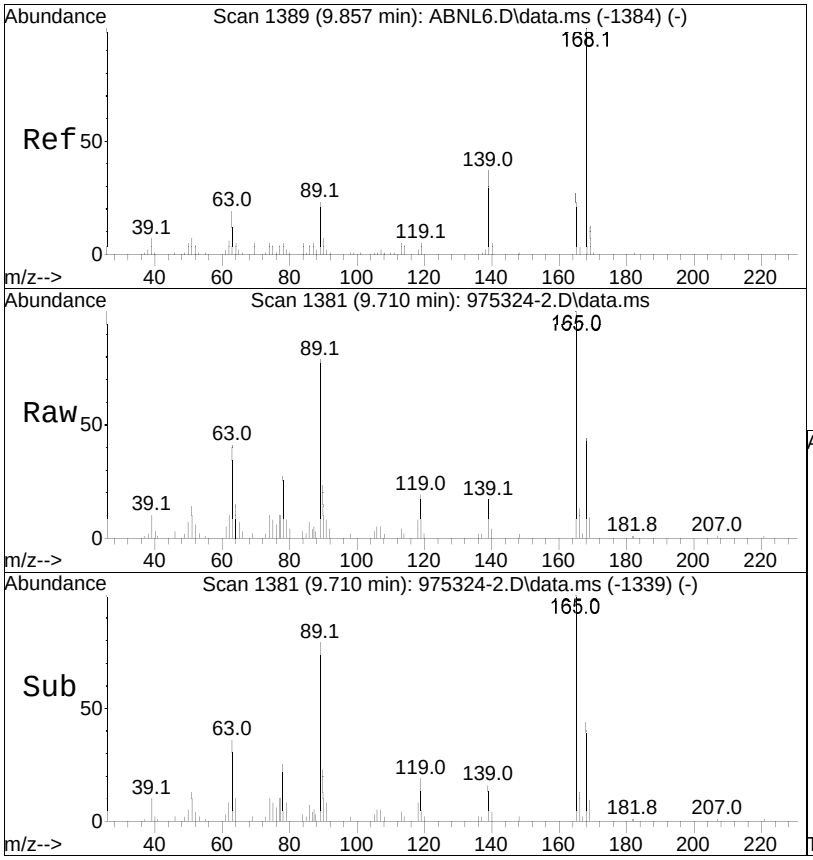


#67
Dibenzofuran
Concen: 1.13 ug/ml
RT: 9.698 min Scan# 1379
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:168 Resp: 30922

Ion	Ratio	Lower	Upper
168	100		
139	33.9	31.4	47.2

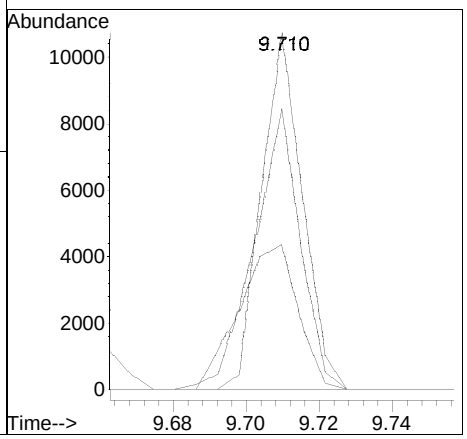


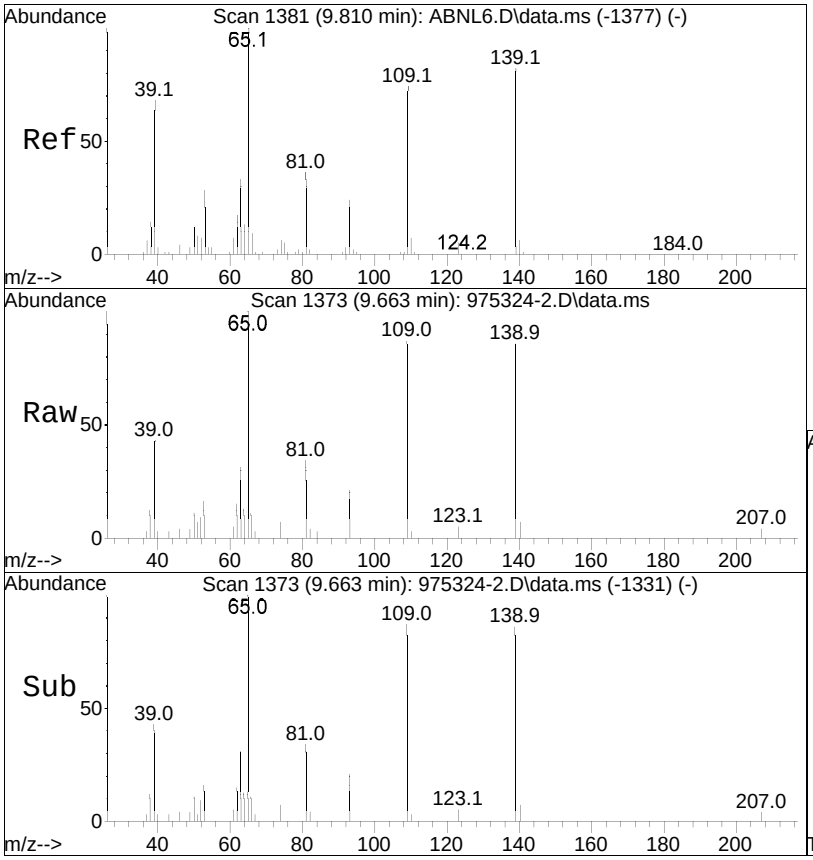


#68
2,4-Dinitrotoluene
Concen: 1.24 ug/ml
RT: 9.710 min Scan# 1381
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:165 Resp: 8307

Ion	Ratio	Lower	Upper
165	100		
89	88.8	72.0	108.0
63	58.7	52.7	79.1

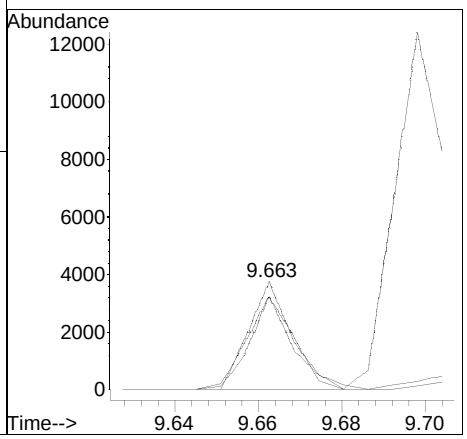


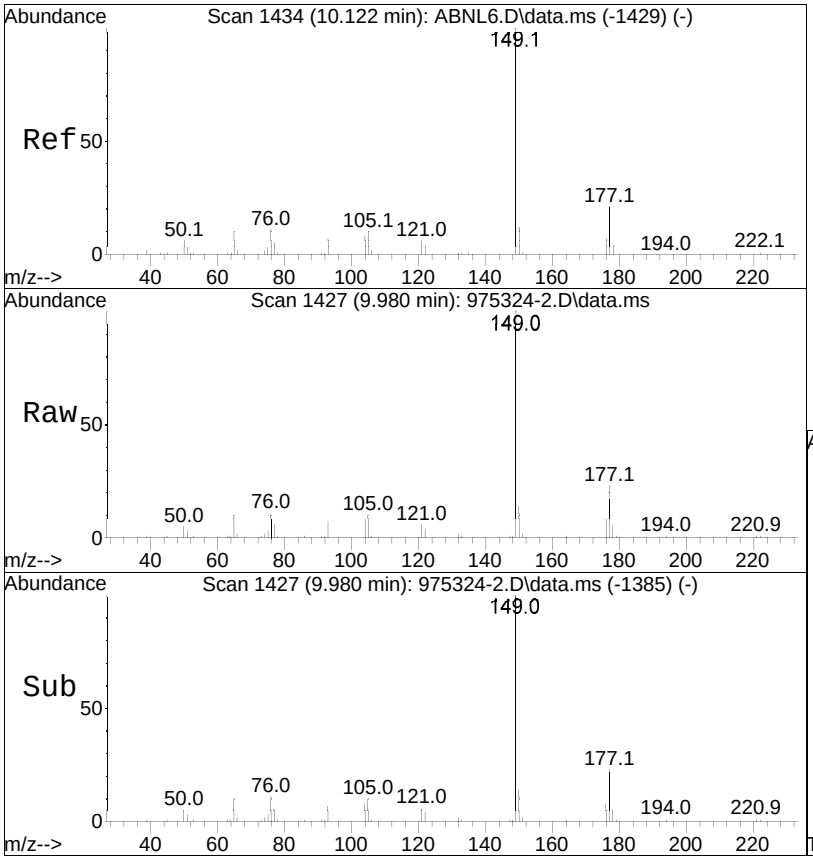


#69
4-Nitrophenol
Concen: 0.59 ug/ml
RT: 9.663 min Scan# 1373
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion: 65 Resp: 2711

Ion	Ratio	Lower	Upper
65	100		
109	92.2	47.4	71.2#
139	86.9	76.6	115.0

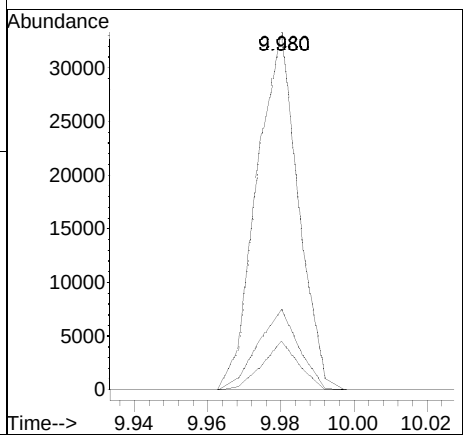


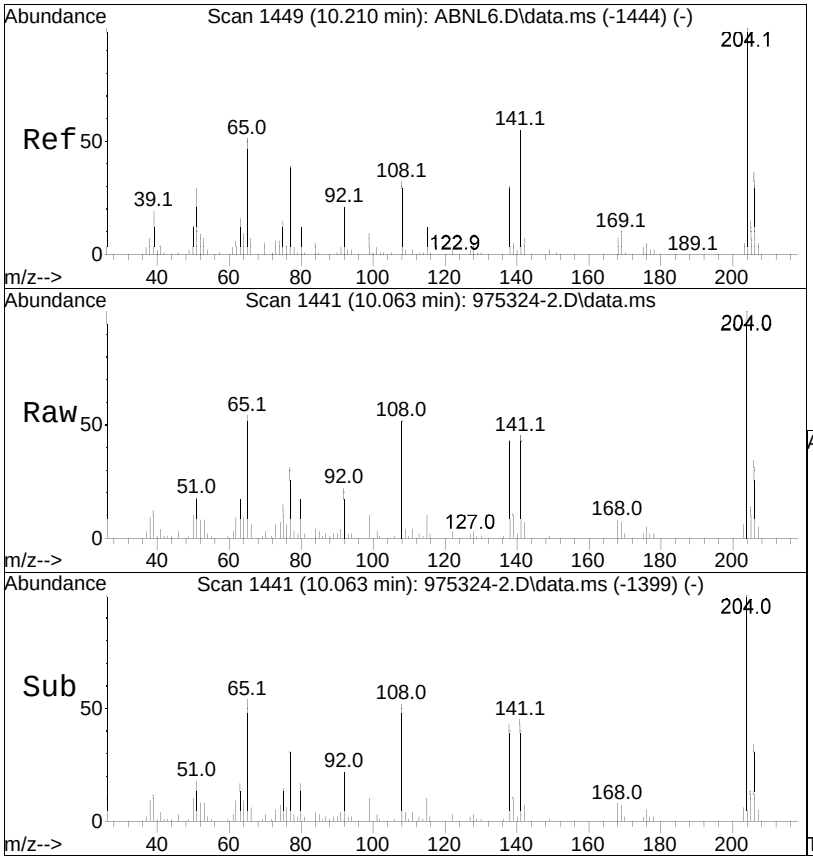


#72
Diethyl phthalate
Concen: 1.20 ug/ml
RT: 9.980 min Scan# 1427
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:149 Resp: 25996

Ion	Ratio	Lower	Upper
149	100		
177	22.5	16.1	24.1
150	12.1	9.4	14.2

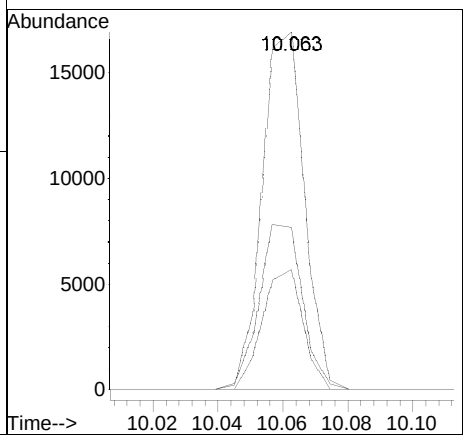


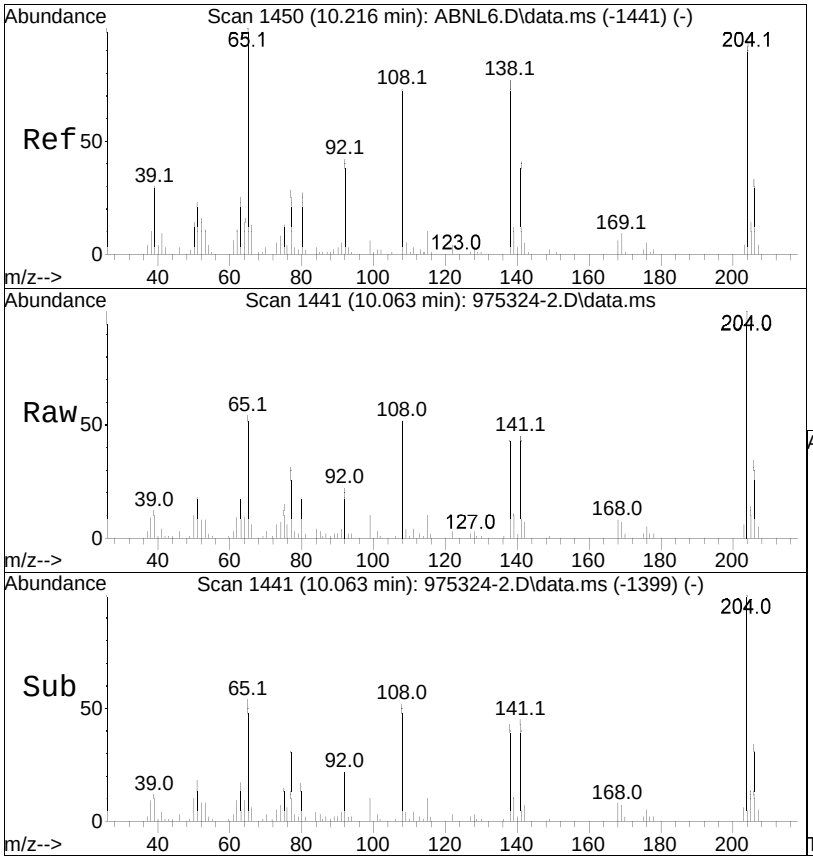


#74
4-Chlorophenyl phenyl ether
Concen: 1.33 ug/ml
RT: 10.063 min Scan# 1441
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:204 Resp: 15096

Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.8	38.6
141	47.8	53.6	80.4#

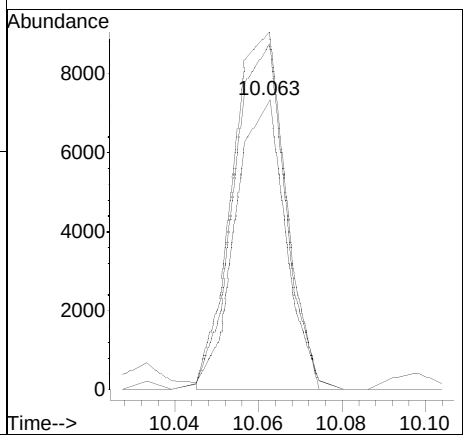


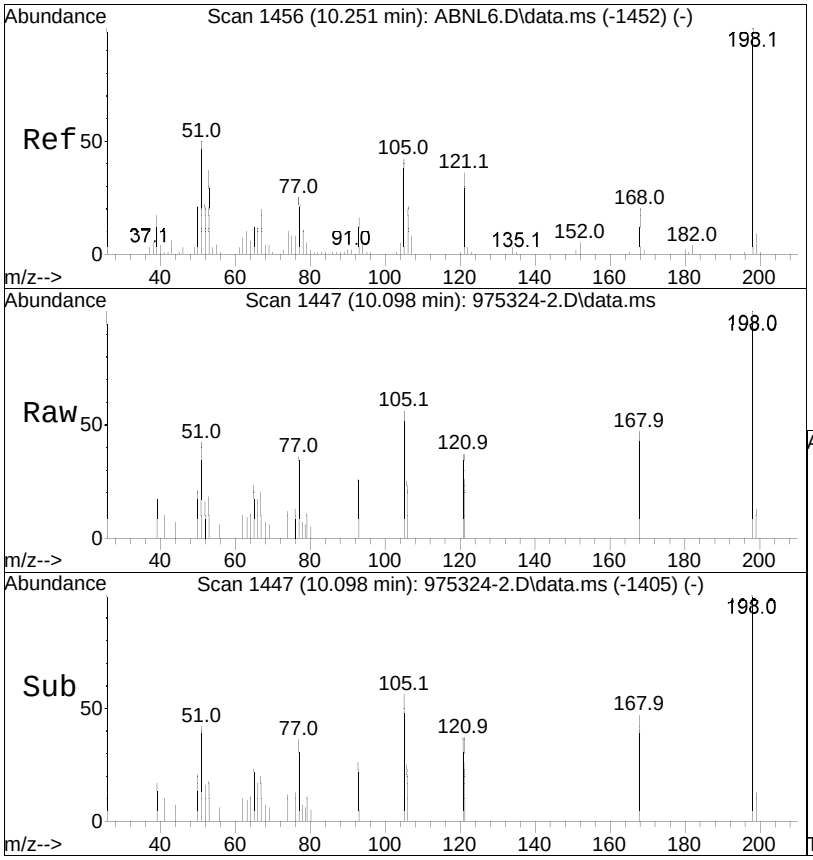


#75
4-Nitroaniline
Concen: 1.30 ug/ml
RT: 10.063 min Scan# 1441
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:138 Resp: 6087

Ion	Ratio	Lower	Upper
138	100		
108	123.1	52.1	78.1#
65	132.8	115.0	172.6

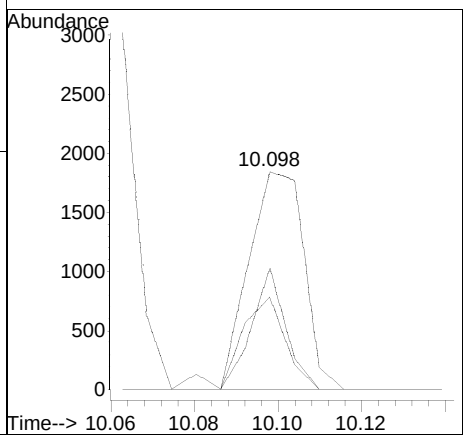


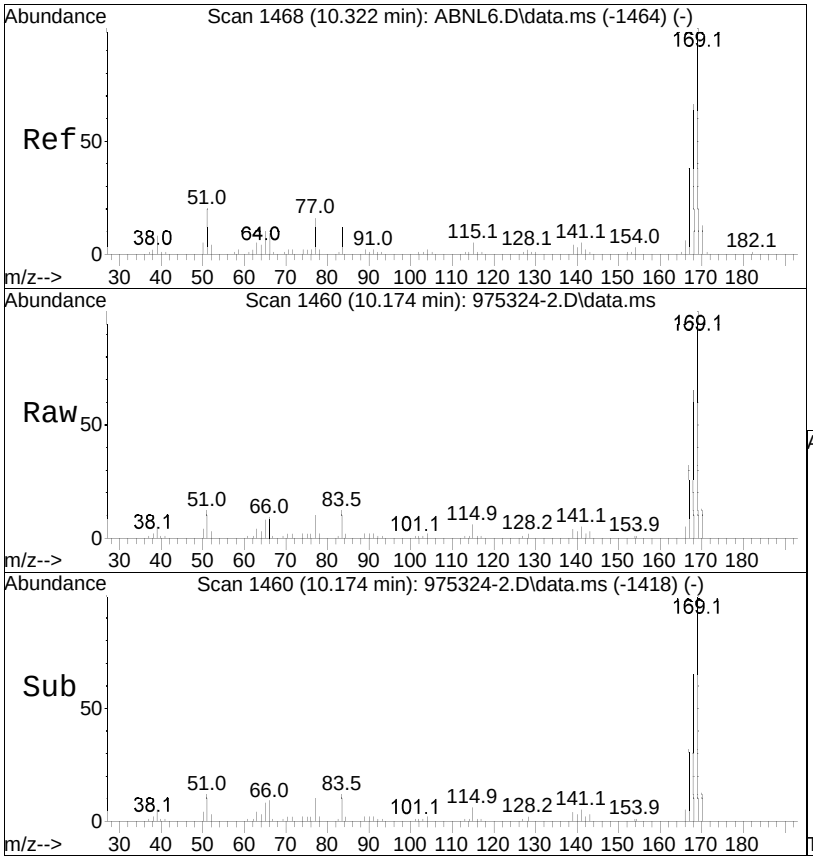


#76
4,6-Dinitro-o-cresol
Concen: 0.45 ug/ml
RT: 10.098 min Scan# 1447
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:198 Resp: 1682

Ion	Ratio	Lower	Upper
198	100		
51	32.7	76.0	114.0#
105	34.7	45.6	68.4#

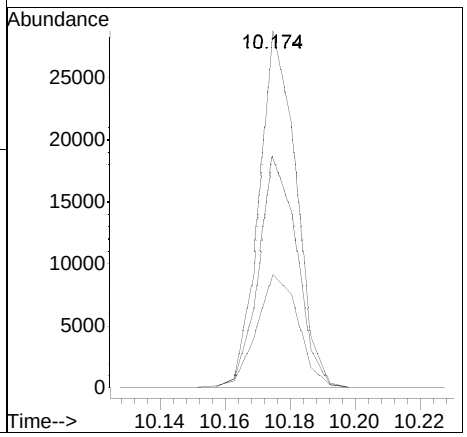


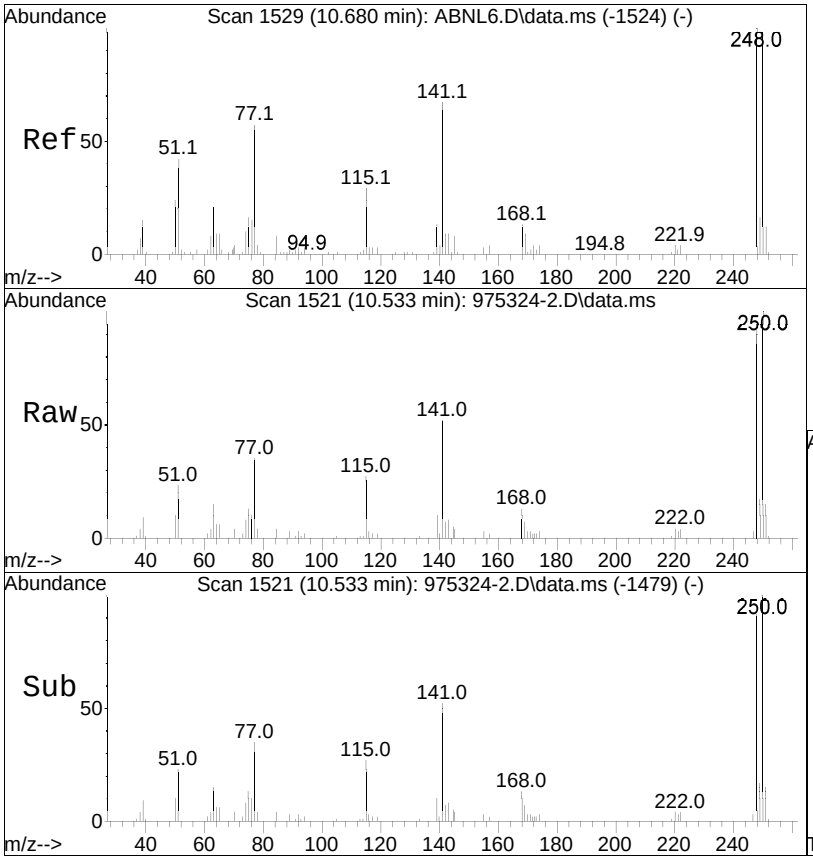


#77
NDPA/DPA
Concen: 1.27 ug/ml
RT: 10.174 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:169 Resp: 22684

Ion	Ratio	Lower	Upper
169	100		
168	67.0	54.0	81.0
167	35.9	28.6	42.8

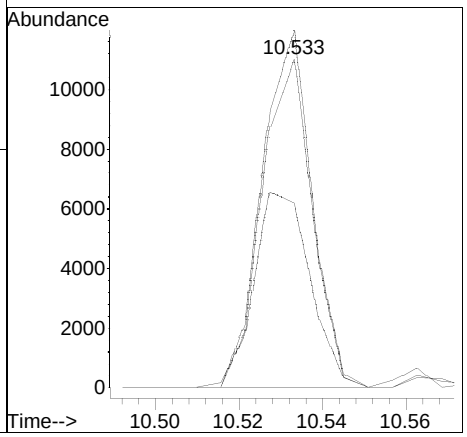


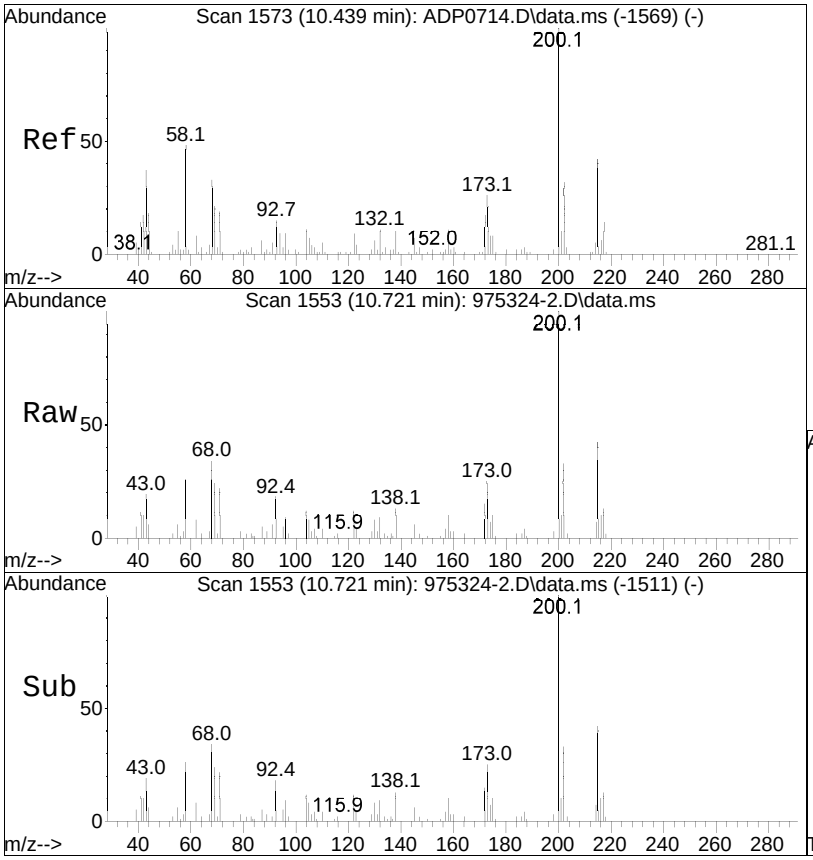


#80
4-Bromophenyl phenyl ether
Concen: 1.30 ug/ml
RT: 10.533 min Scan# 1521
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:248 Resp: 9210

Ion	Ratio	Lower	Upper
248	100		
141	66.4	76.6	114.8#
250	108.2	77.3	115.9

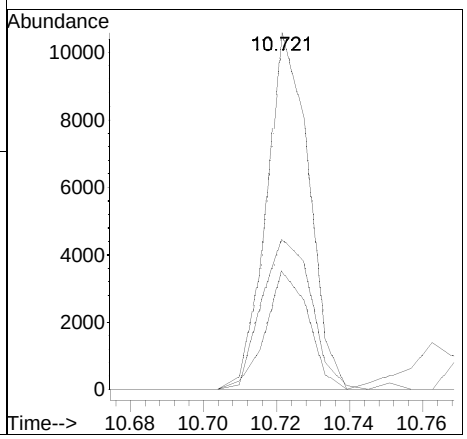


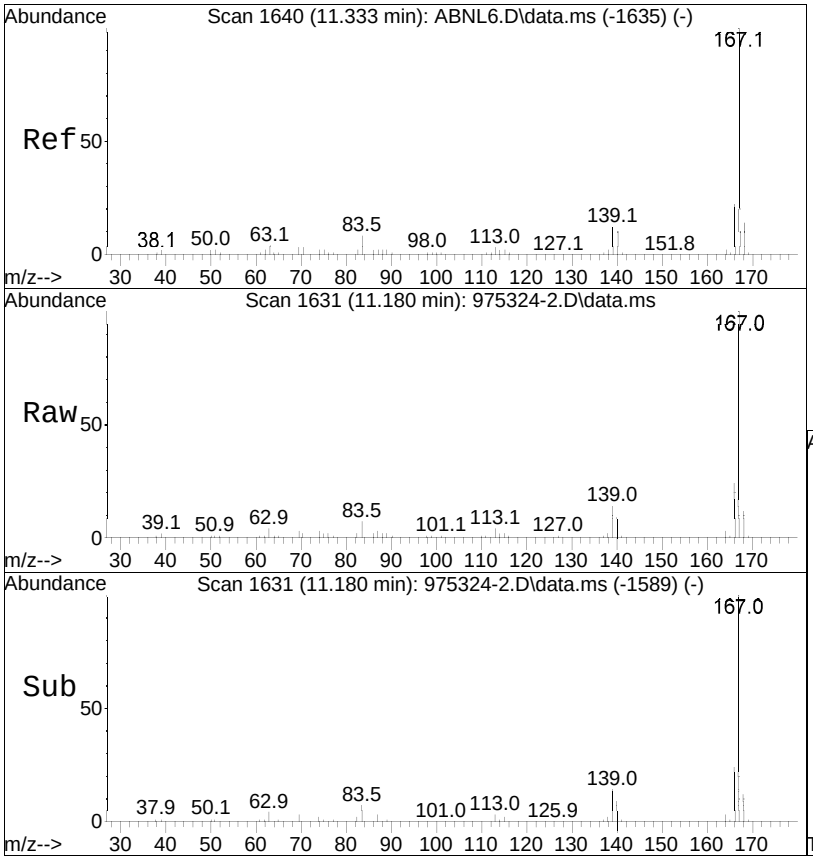


#87
Atrazine
Concen: 1.18 ug/ml
RT: 10.721 min Scan# 1553
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:200 Resp: 8464

Ion	Ratio	Lower	Upper
200	100		
202	33.8	25.8	38.6
215	49.4	40.2	60.4

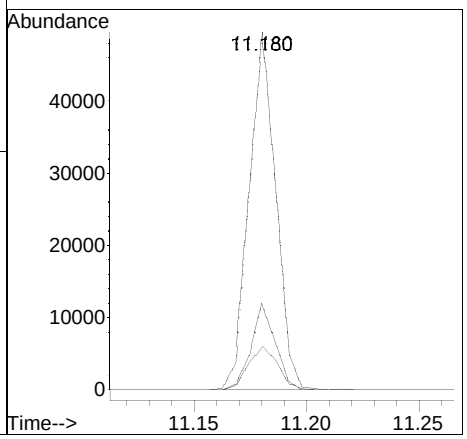


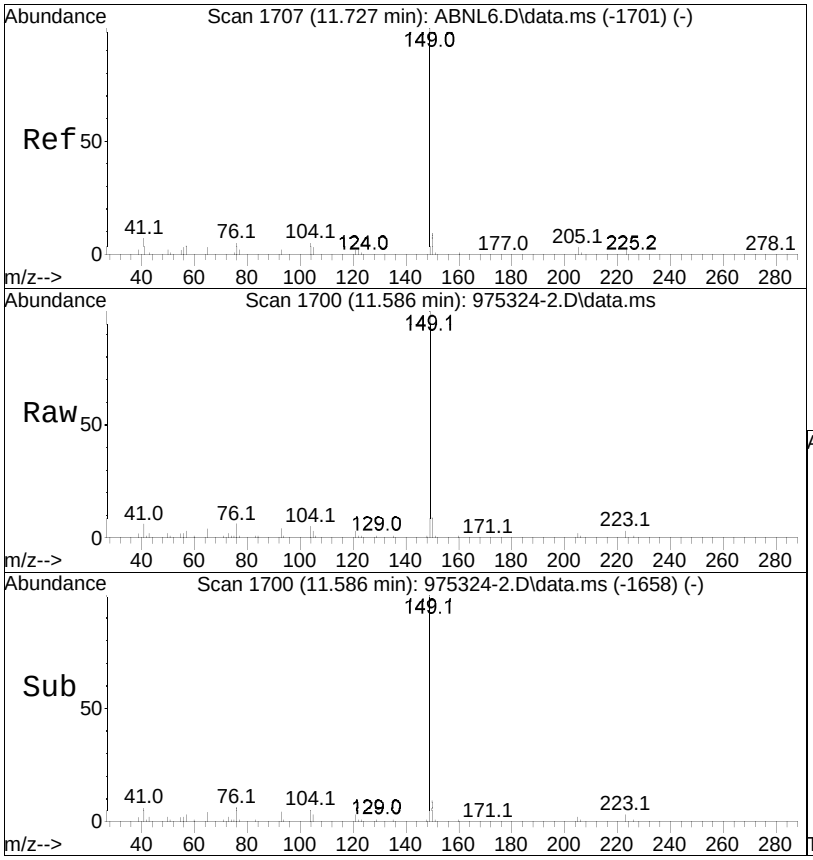


#91
Carbazole
Concen: 1.31 ug/ml
RT: 11.180 min Scan# 1631
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:167 Resp: 40378

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	21.8	17.4	26.0

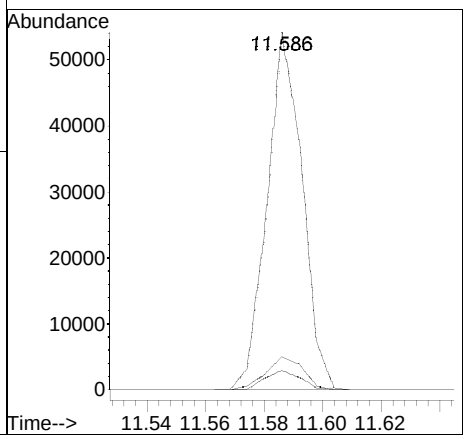


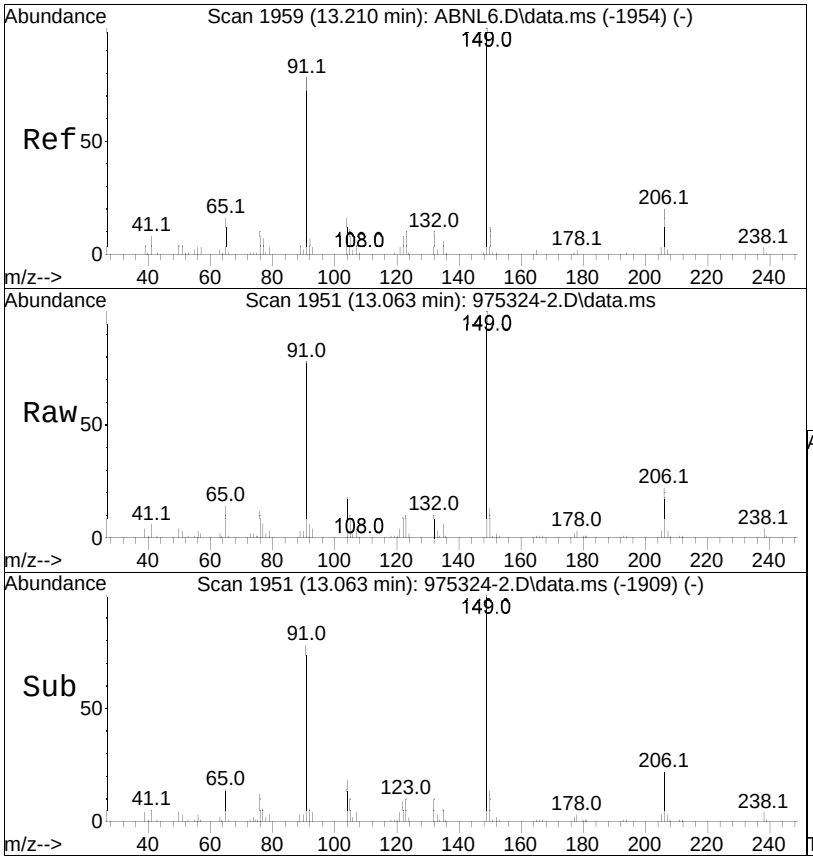


#92
Di-n-butylphthalate
Concen: 1.23 ug/ml
RT: 11.586 min Scan# 1700
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:149 Resp: 44495

Ion	Ratio	Lower	Upper
149	100		
150	9.9	7.0	10.6
104	5.7	4.5	6.7

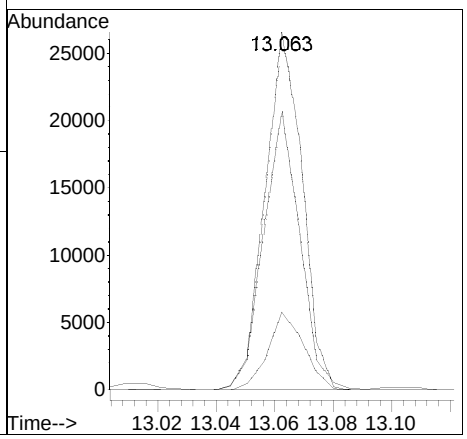


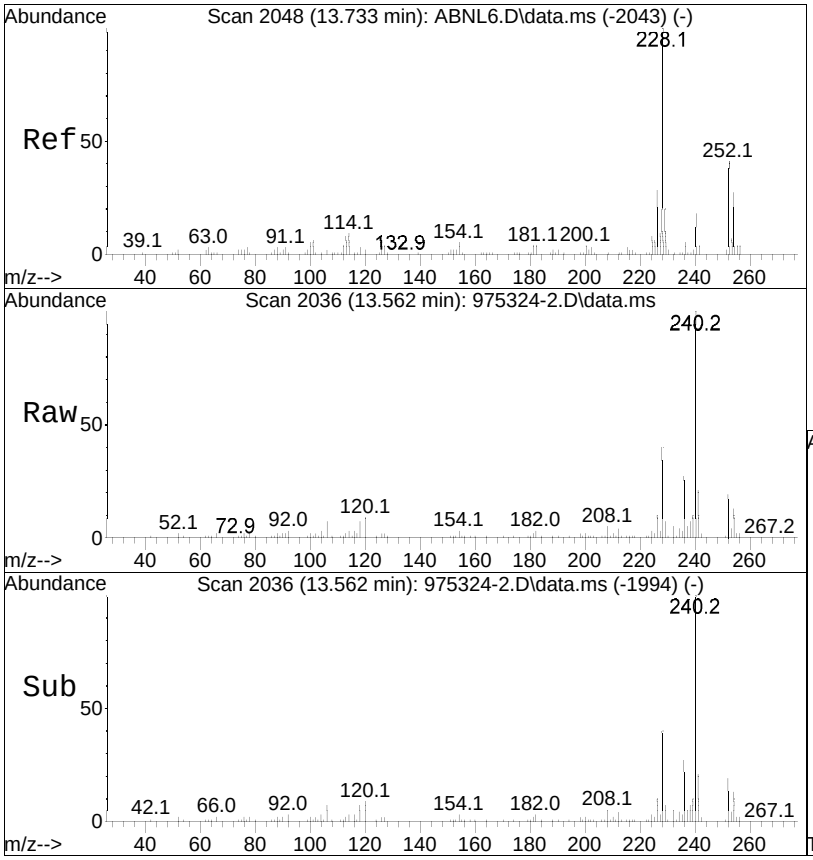


#97
Butyl benzyl phthalate
Concen: 1.39 ug/ml
RT: 13.063 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:149 Resp: 23294

Ion	Ratio	Lower	Upper
149	100		
91	76.2	63.3	94.9
206	21.2	13.9	20.9#

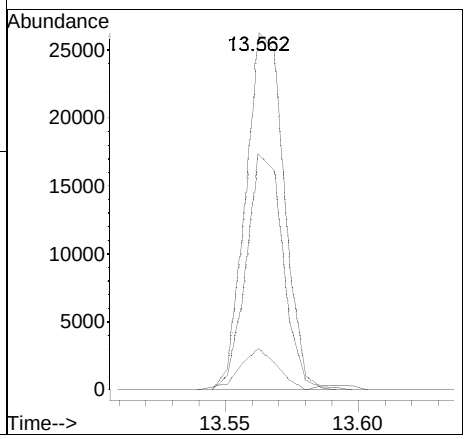


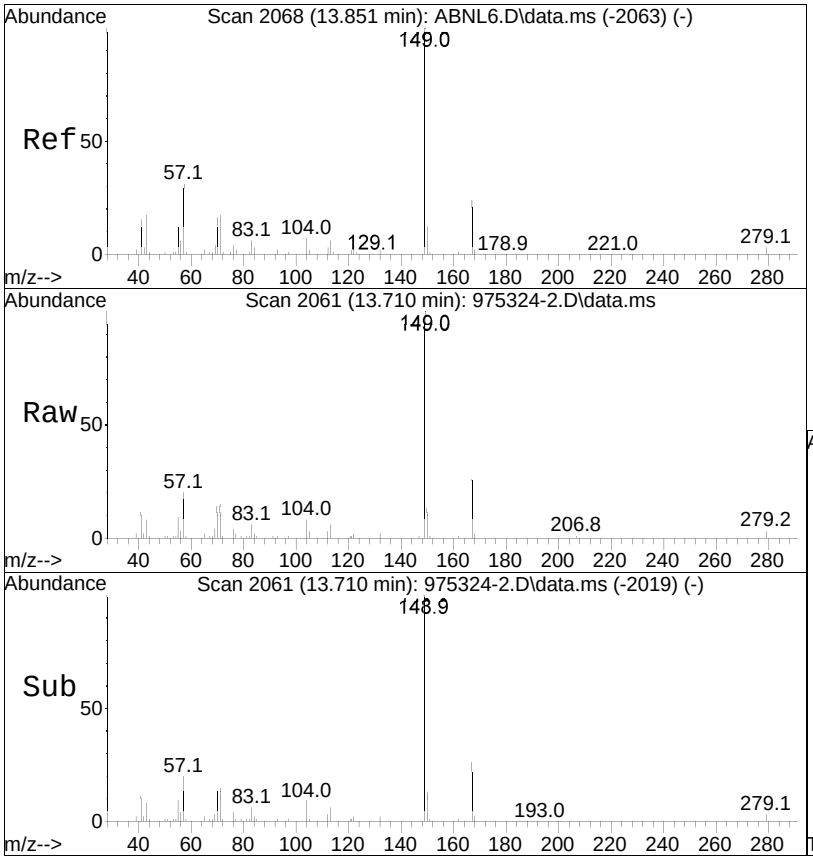


#106
3,3'-Dichlorobenzidine
Concen: 1.41 ug/ml
RT: 13.562 min Scan# 2036
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:252 Resp: 26186

Ion	Ratio	Lower	Upper
252	100		
126	11.6	14.5	21.7#
254	63.3	51.2	76.8

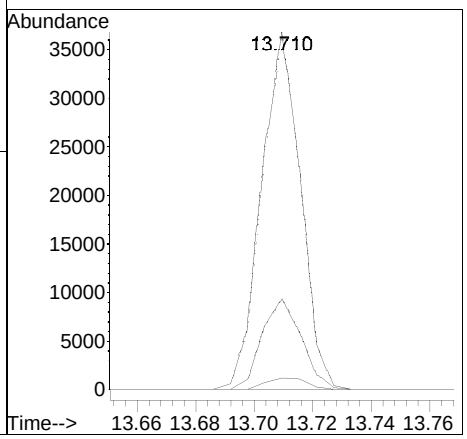


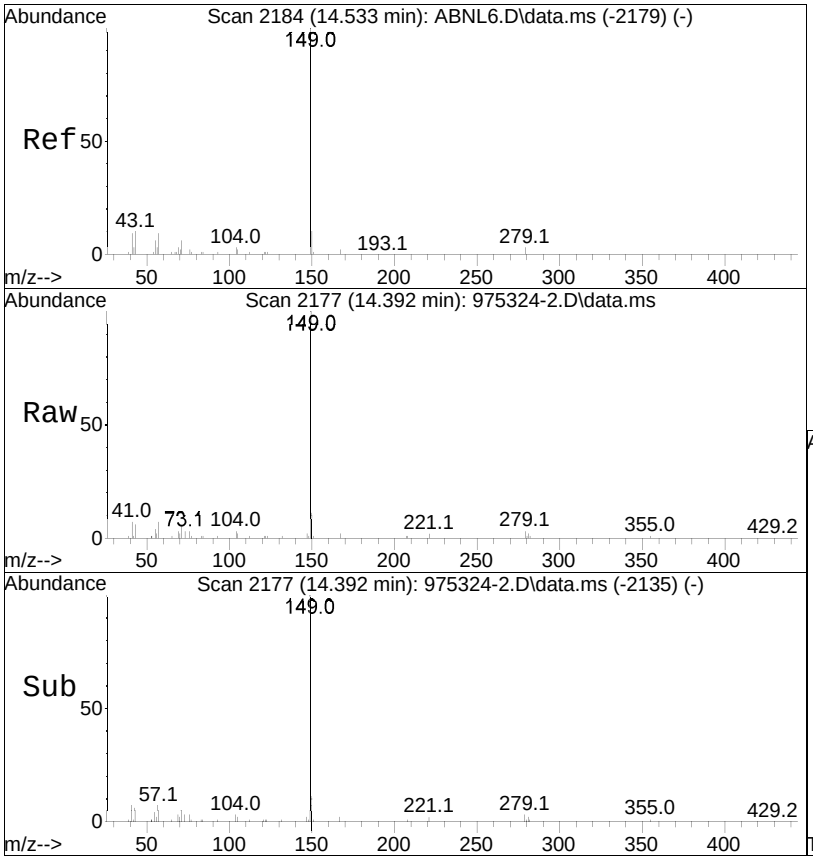


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.09 ug/ml
RT: 13.710 min Scan# 2061
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:149 Resp: 33862

Ion	Ratio	Lower	Upper
149	100		
167	25.7	22.1	33.1
279	3.2	3.0	4.4

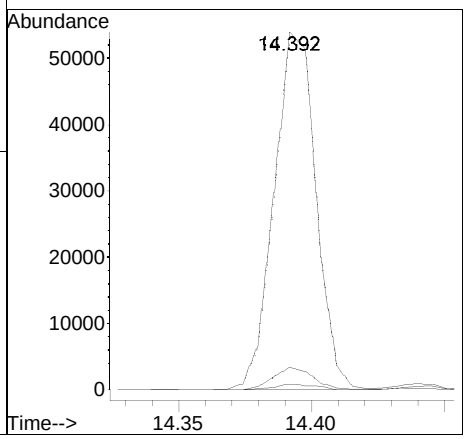




#109
Di-n-octylphthalate
Concen: 1.13 ug/ml
RT: 14.392 min Scan# 2177
Delta R.T. -0.000 min
Lab File: 975324-2.D
Acq: 24 Sep 2024 2:51 pm

Tgt Ion:149 Resp: 58394

Ion	Ratio	Lower	Upper
149	100		
43	6.2	18.8	28.2#
167	1.5	1.3	1.9

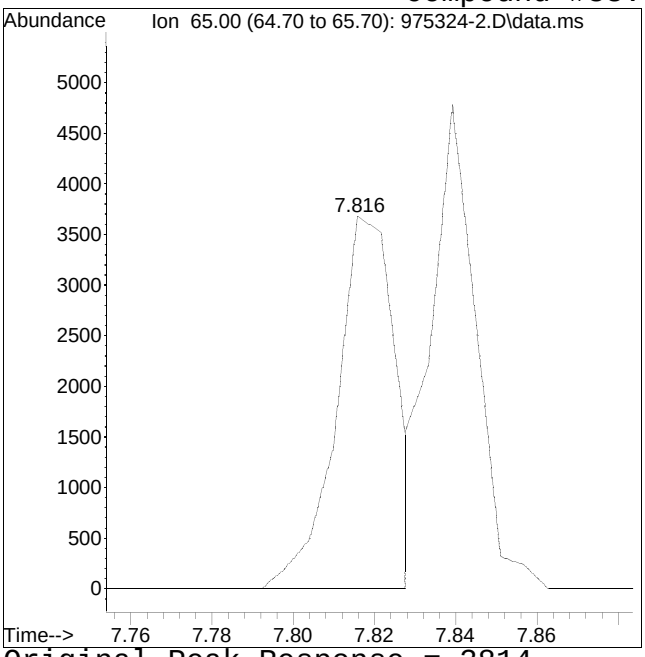


Manual Integration Report

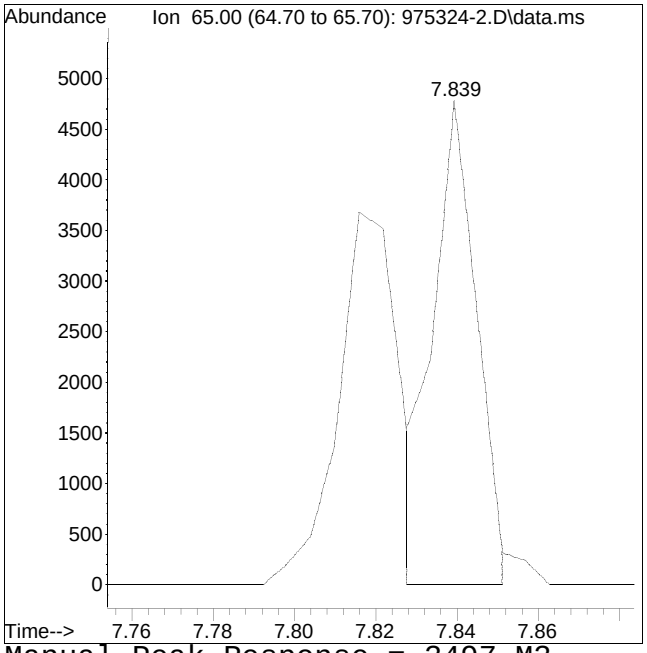
Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-2.D
Date Inj'd : 9/24/2024 2:51 pm
Sample : WG1975324-2,32,,HNY

QMethod : FS240624SV106.m
Operator : SV106:smz
Instrument : SV 106
Quant Date : 9/24/2024 3:10 pm

Compound #38: 4-Chloroaniline



Original Peak Response = 3814



Manual Peak Response = 3497 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-3.D
Acq On : 24 Sep 2024 3:14 pm
Operator : SV106:smz
Sample : WG1975324-3,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 15:36:00 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	6.287	152	22158	4.000	ug/ml		0.00
Standard Area 1 = 24148			Recovery = 91.76%				
27) IS2_1,4-Dichlorobenzen...	6.287	152	22158	4.000	ug/ml		0.00
Standard Area 3 = 36467			Recovery = 60.76%				
32) IS3_1,4-Dichlorobenzen...	6.287	152	22158	4.000	ug/ml		0.00
Standard Area 2 = 24852			Recovery = 89.16%				
35) IS1_Naphthalene-d8	7.728	136	79534	4.000	ug/ml		0.00
Standard Area 1 = 82755			Recovery = 96.11%				
55) IS2_Naphthalene-d8	7.728	136	79534	4.000	ug/ml		0.00
Standard Area 3 = 130613			Recovery = 60.89%				
63) IS1_Acenaphthene-d10	9.498	164	57972	4.000	ug/ml		0.00
Standard Area 1 = 56844			Recovery = 101.98%				
83) IS2_Acenaphthene-d10	9.498	164	57972	4.000	ug/ml		0.00
Standard Area 3 = 92349			Recovery = 62.77%				
86) IS3_Acenaphthene-d10	9.498	164	57972	4.000	ug/ml		0.00
Standard Area 2 = 61204			Recovery = 94.72%				
88) IS1_Phenanthrene-d10	10.939	188	128275	4.000	ug/ml		0.00
Standard Area 1 = 128731			Recovery = 99.65%				
100) IS3_Phenanthrene-d10	10.939	188	128275	4.000	ug/ml		0.00
Standard Area 2 = 132912			Recovery = 96.51%				
104) IS1_Chrysene-d12	13.568	240	156953	4.000	ug/ml	#	0.00
Standard Area 1 = 146328			Recovery = 107.26%				
113) IS1_Perylene-d12	15.027	264	167859	4.000	ug/ml		0.00
Standard Area 1 = 171391			Recovery = 97.94%				
System Monitoring Compounds							
4) 2-Fluorophenol	4.222	112	5586	0.872	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 43.60%				
7) Phenol-d6	5.910	99	6053	0.690	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 34.50%				
19) Nitrobenzene-d5	6.957	82	6174	0.689	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 68.90%				
46) 2-Fluorobiphenyl	8.863	172	12488	0.611	ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery = 61.10%				
79) 2,4,6-Tribromophenol	10.269	330	5669	1.569	ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery = 78.45%				

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-3.D
Acq On : 24 Sep 2024 3:14 pm
Operator : SV106:smz
Sample : WG1975324-3,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 15:36:00 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 4-Terphenyl-d14	12.527	244	25210	0.731	ug/ml	0.00

Spiked Amount 1.000 Range 30 - 130 Recovery = 73.10%

Target Compounds						Qvalue
6) 2-Chlorophenol	6.010	128	8921	1.251	ug/ml#	89
8) Phenol	5.922	94	6434	0.707	ug/ml#	88
14) Bis(2-chloroisopropyl)...	6.686	45	5399	0.450	ug/ml#	1
15) 2-Methylphenol	6.675	108	7558	1.154	ug/ml#	95
17) n-Nitrosodi-n-propylamine	6.834	70	7571	1.293	ug/ml#	88
18) 3-Methylphenol/4-Methy...	6.869	108	8491	1.198	ug/ml	93
20) Nitrobenzene	6.975	77	11872	1.304	ug/ml	92
21) Isophorone	7.263	82	19159	1.253	ug/ml#	93
22) 2-Nitrophenol	7.333	139	5219	1.362	ug/ml#	81
23) 2,4-Dimethylphenol	7.445	107	7842	1.088	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.545	93	11282	1.146	ug/ml#	96
25) 2,4-Dichlorophenol	7.604	162	9703	1.421	ug/ml	96
28) Benzaldehyde	5.692	105	7036	1.070	ug/ml	95
29) Acetophenone	6.798	105	14926	1.248	ug/ml#	71
38) 4-Chloroaniline	7.839	65	3577	1.064	ug/ml#	1
40) p-Chloro-m-cresol	8.369	107	9995	1.467	ug/ml	94
43) Hexachlorocyclopentadiene	8.639	237	5144	0.771	ug/ml	97
44) 2,4,6-Trichlorophenol	8.769	196	8989	1.504	ug/ml	97
45) 2,4,5-Trichlorophenol	8.798	196	10271	1.605	ug/ml	97
48) 2-Nitroaniline	9.069	138	7417	1.524	ug/ml#	86
51) Dimethyl phthalate	9.280	163	27465	1.397	ug/ml#	95
53) 2,6-Dinitrotoluene	9.322	165	6323	1.493	ug/ml#	85
60) Caprolactam	8.151	55	905	0.217	ug/ml#	1
61) 1,2,4,5-Tetrachloroben...	8.645	216	13495	1.237	ug/ml	96
62) Biphenyl	8.951	154	26169	1.214	ug/ml	97
64) 3-Nitroaniline	9.475	138	6160	1.331	ug/ml	89
66) 2,4-Dinitrophenol	9.580	184	1198	0.388	ug/ml#	84
67) Dibenzofuran	9.698	168	33734	1.202	ug/ml	93
68) 2,4-Dinitrotoluene	9.710	165	8704	1.265	ug/ml	97
69) 4-Nitrophenol	9.663	65	3730	0.796	ug/ml#	83
72) Diethyl phthalate	9.980	149	28027	1.264	ug/ml	96
74) 4-Chlorophenyl phenyl ...	10.063	204	15973	1.375	ug/ml#	83
75) 4-Nitroaniline	10.063	138	6271	1.301	ug/ml#	71

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-3.D
Acq On : 24 Sep 2024 3:14 pm
Operator : SV106:smz
Sample : WG1975324-3,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 15:36:00 2024
Quant Method : I:\8270\SV106\240924RVT\FS240624SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\240924RVT\ABN0924.D
: 2 - I:\8270\SV106\240924RVT\ADP0924.D
: 3 - I:\8270\SV106\240924RVT\AP90924.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	4,6-Dinitro-o-cresol	10.098	198	2882	0.747	ug/ml#	54
77)	NDPA/DPA	10.174	169	23404	1.279	ug/ml	98
80)	4-Bromophenyl phenyl e...	10.533	248	9548	1.318	ug/ml#	83
87)	Atrazine	10.722	200	9236	1.253	ug/ml	99
91)	Carbazole	11.180	167	43906	1.345	ug/ml	97
92)	Di-n-butylphthalate	11.586	149	47805	1.247	ug/ml	98
97)	Butyl benzyl phthalate	13.063	149	24581	1.393	ug/ml	92
106)	3,3'-Dichlorobenzidine	13.563	252	26762	1.395	ug/ml#	96
108)	Bis(2-ethylhexyl)phtha...	13.710	149	36378	1.135	ug/ml	95
109)	Di-n-octylphthalate	14.392	149	61385	1.157	ug/ml#	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\240924RVT\
Data File : 975324-3.D
Acq On : 24 Sep 2024 3:14 pm
Operator : SV106:smz
Sample : WG1975324-3,32,,HNY
Misc : WG1975455,WG1975324,ical21231
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 15:36:00 2024
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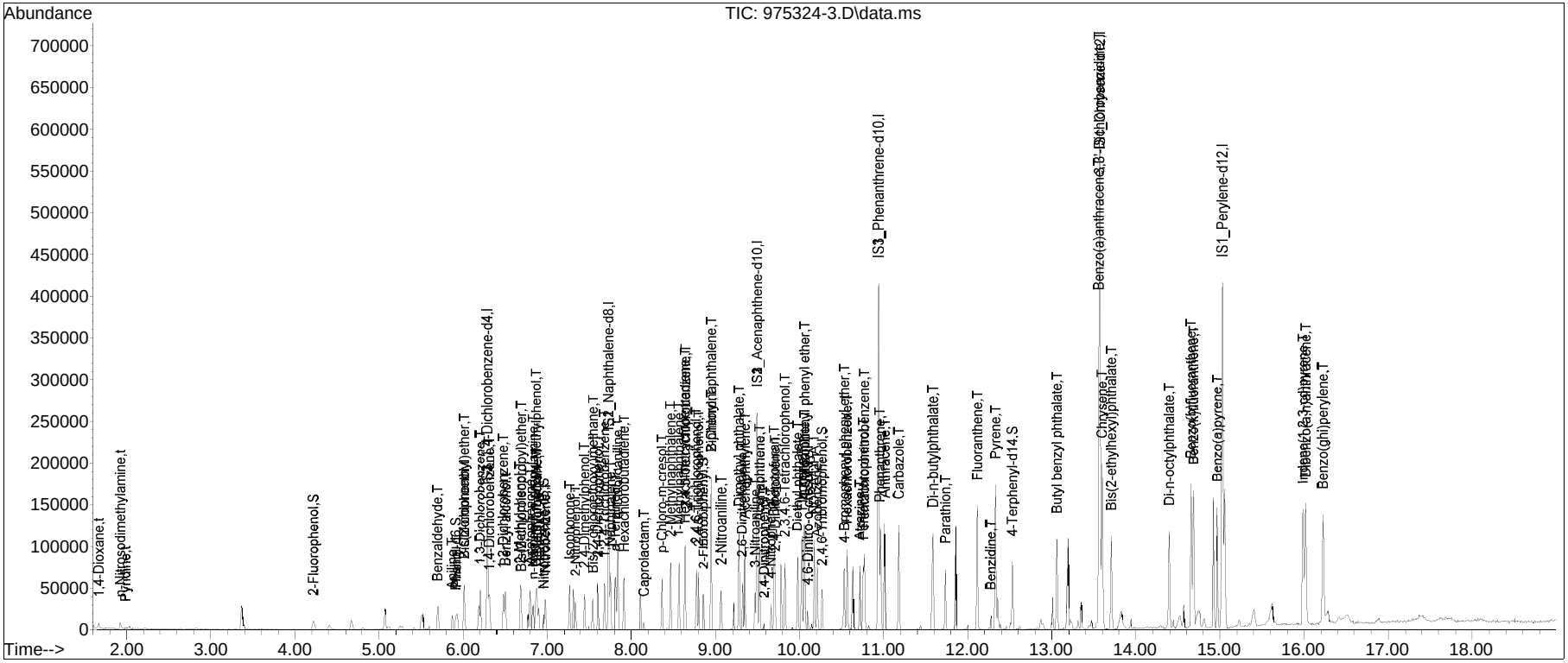
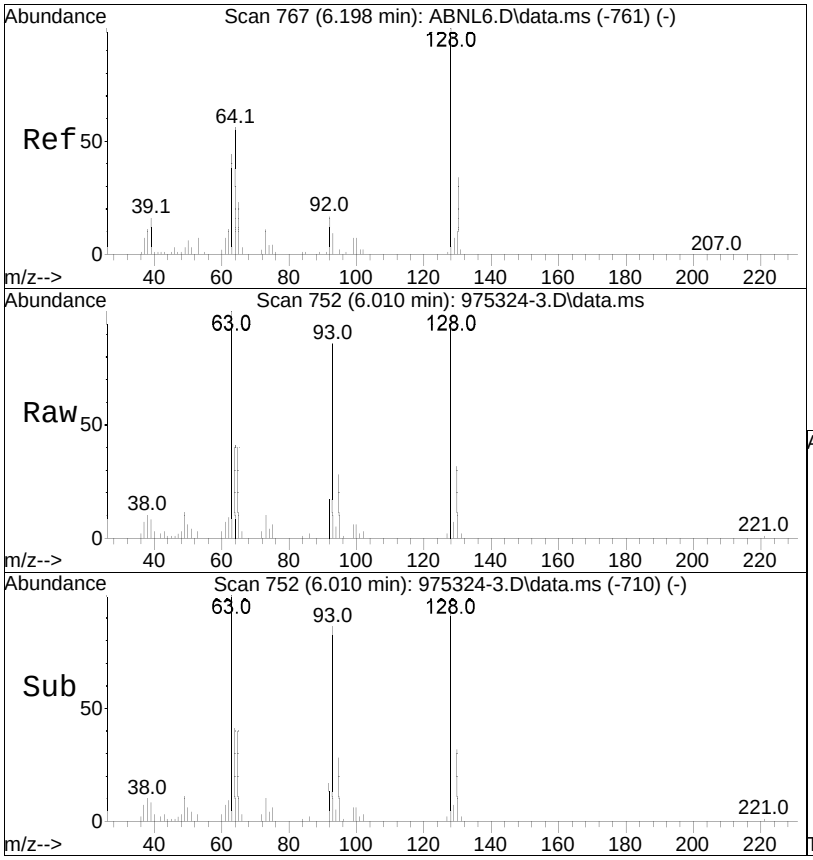
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 11:49:30 2024
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MARVT\AP90924.D•

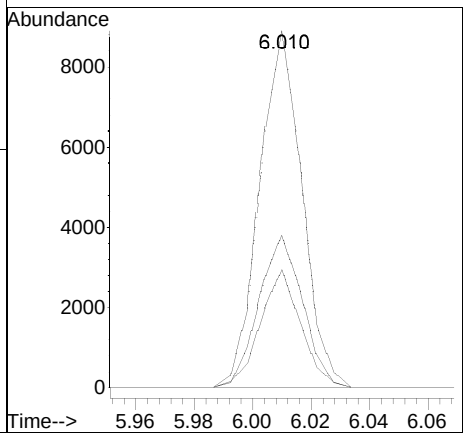


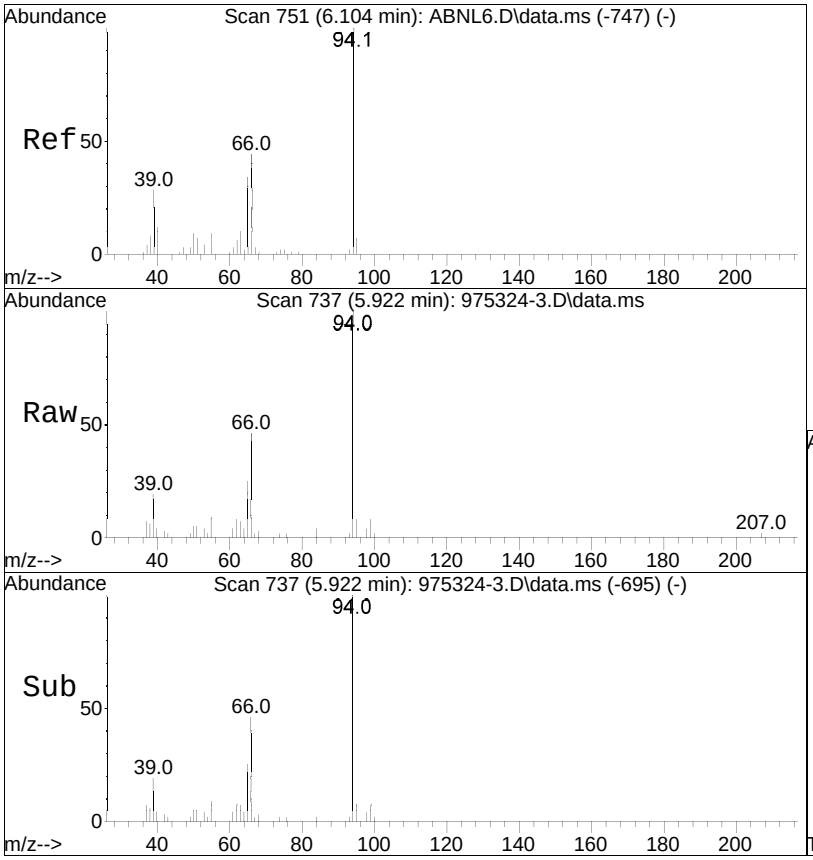


#6
2-Chlorophenol
Concen: 1.25 ug/ml
RT: 6.010 min Scan# 752
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:128 Resp: 8921

Ion	Ratio	Lower	Upper
128	100		
64	44.1	45.1	67.7#
130	31.8	26.2	39.4

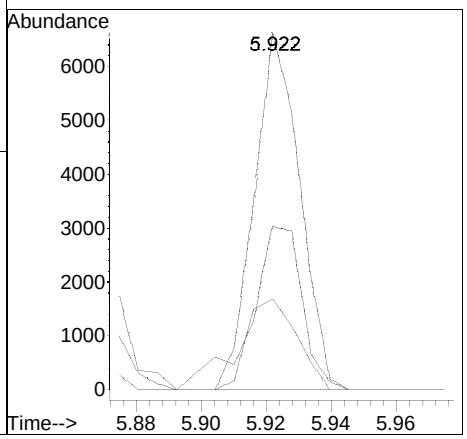


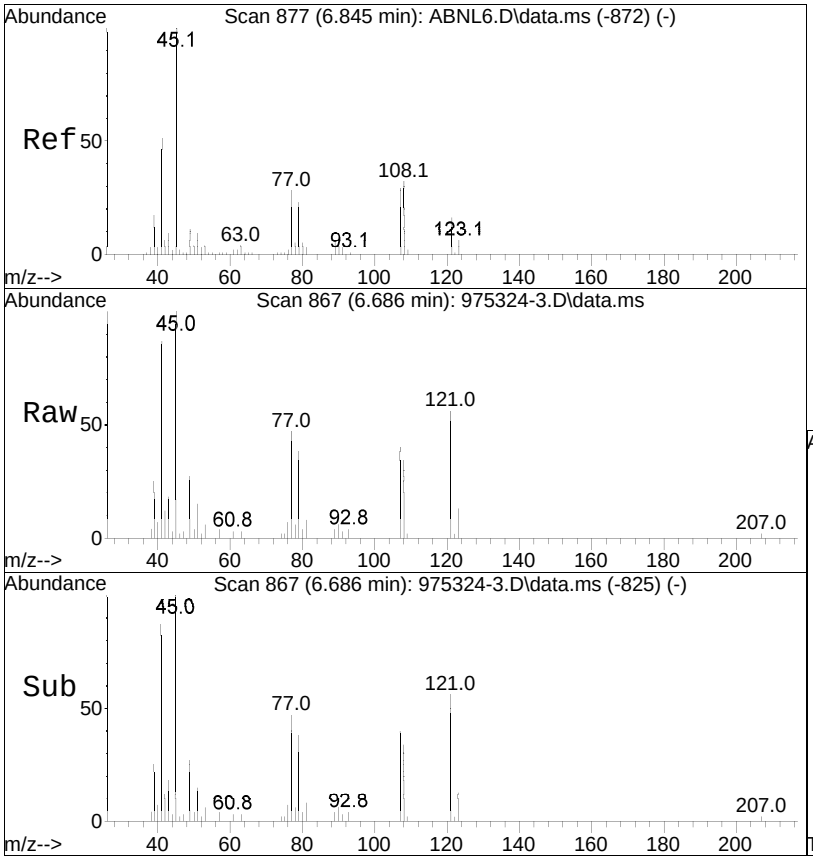


#8
Phenol
Concen: 0.71 ug/ml
RT: 5.922 min Scan# 737
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion: 94 Resp: 6434

Ion	Ratio	Lower	Upper
94	100		
65	27.7	26.0	39.0
66	52.0	33.8	50.8#

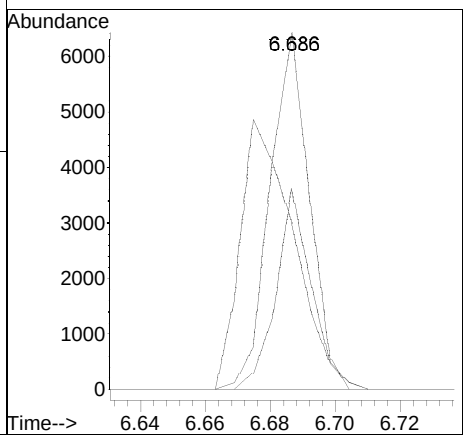


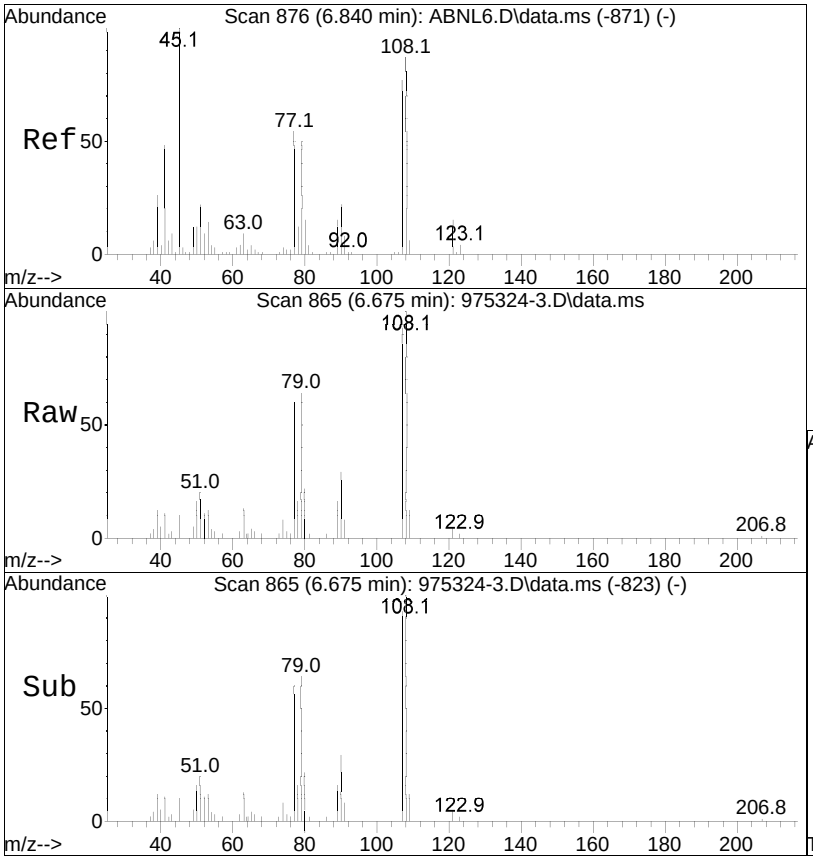


#14
Bis(2-chloroisopropyl)ether
Concen: 0.45 ug/ml
RT: 6.686 min Scan# 867
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion: 45 Resp: 5399

Ion	Ratio	Lower	Upper
45	100		
121	50.6	9.8	14.6#
77	102.0	6.1	9.1#

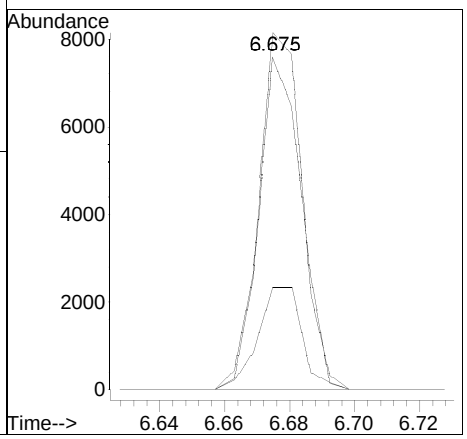


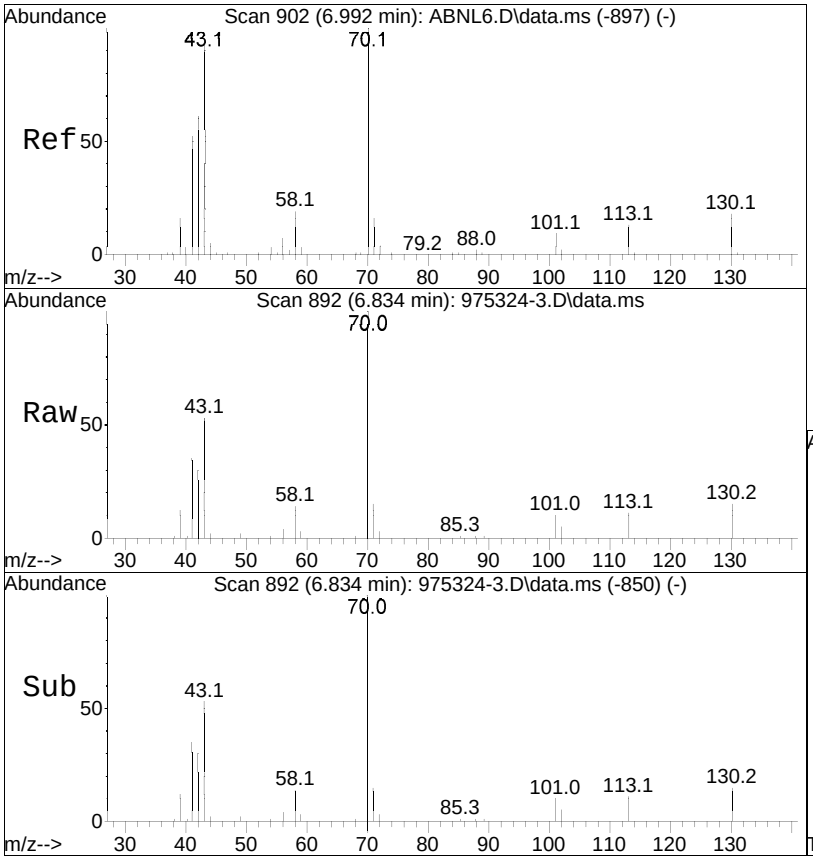


#15
2-Methylphenol
Concen: 1.15 ug/ml
RT: 6.675 min Scan# 865
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:108 Resp: 7558

Ion	Ratio	Lower	Upper
108	100		
107	91.4	70.7	106.1
90	29.4	18.7	28.1#

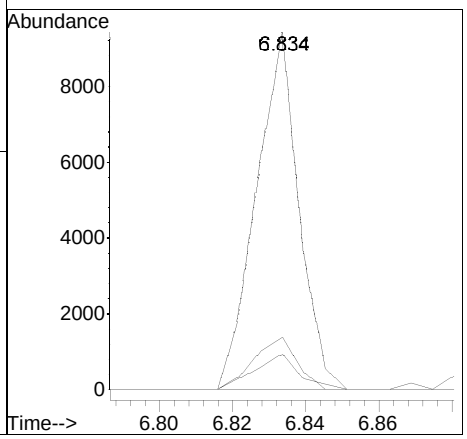


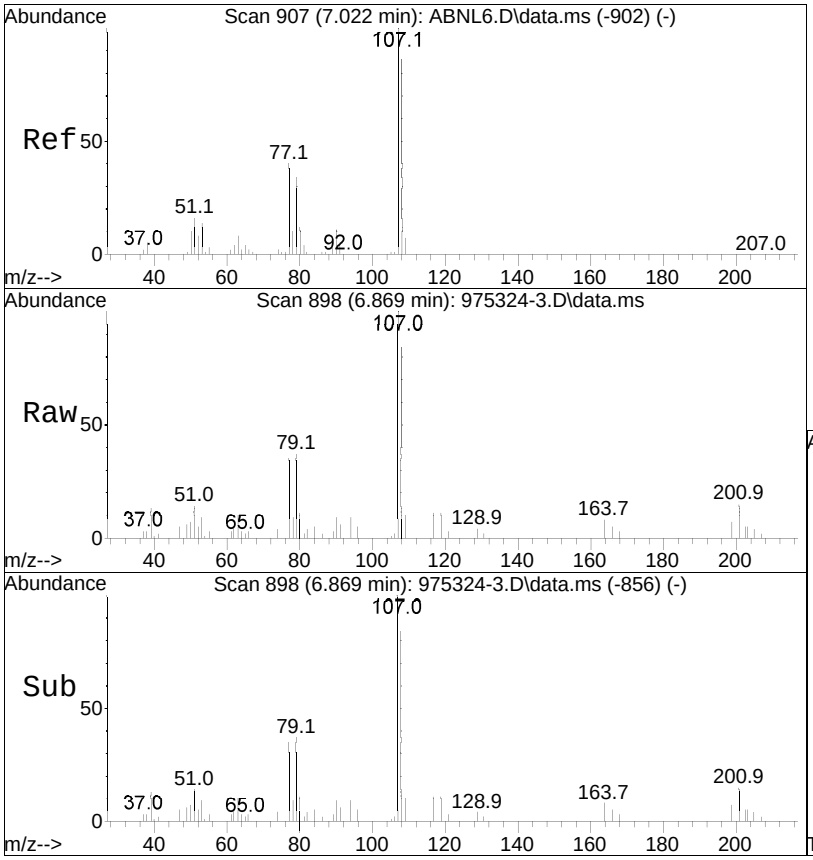


#17
n-Nitrosodi-n-propylamine
Concen: 1.29 ug/ml
RT: 6.834 min Scan# 892
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion: 70 Resp: 7571

Ion	Ratio	Lower	Upper
70	100		
130	15.0	18.2	27.4#
101	10.6	7.8	11.8

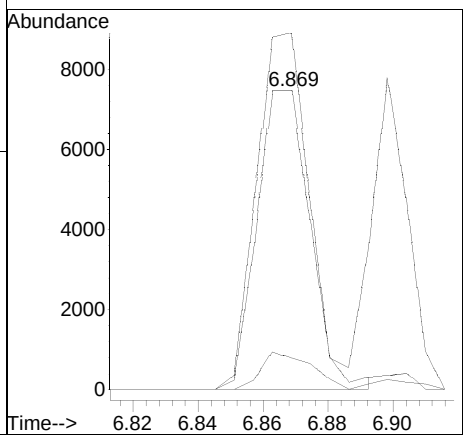


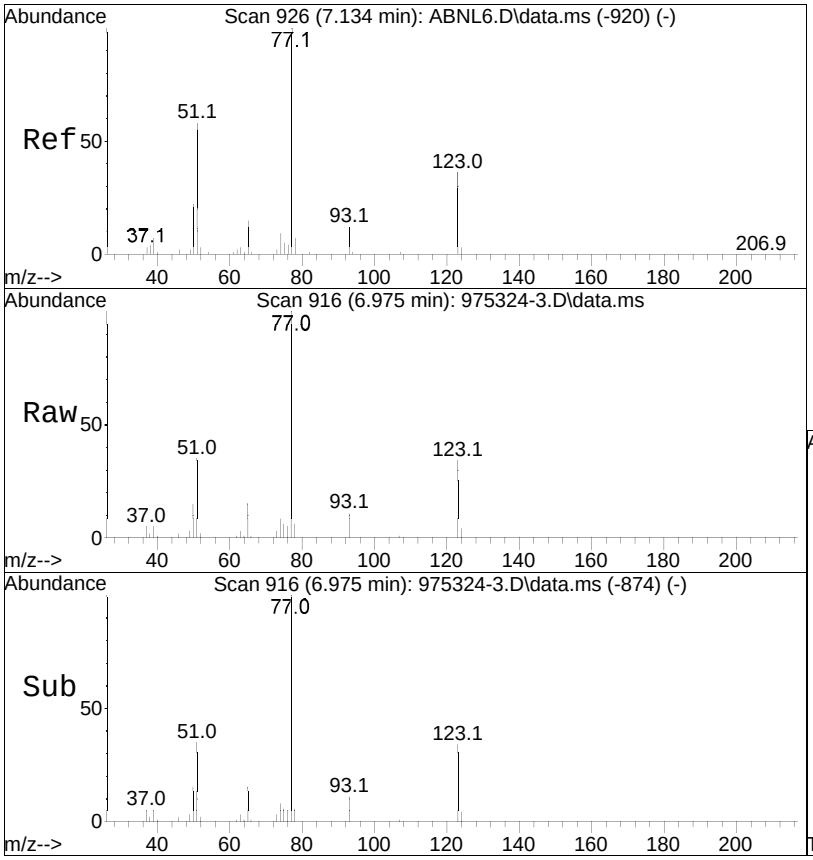


#18
3-Methylphenol/4-Methylphenol
Concen: 1.20 ug/ml
RT: 6.869 min Scan# 898
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:108 Resp: 8491

Ion	Ratio	Lower	Upper
108	100		
107	118.5	88.6	132.8
90	12.0	8.8	13.2

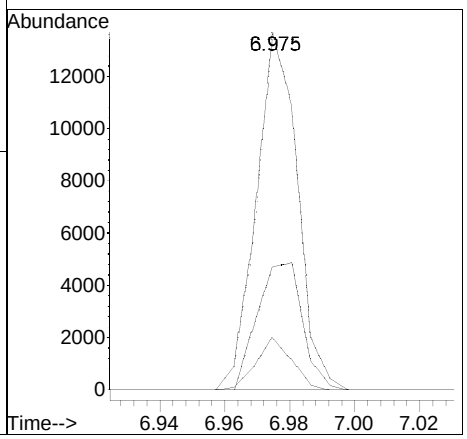


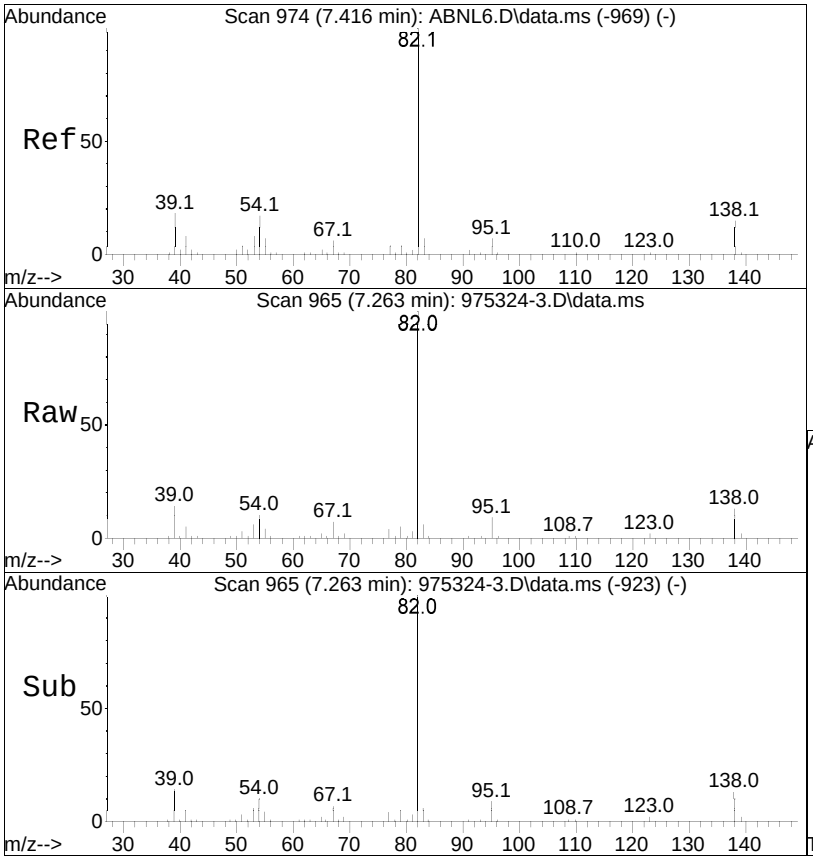


#20
Nitrobenzene
Concen: 1.30 ug/ml
RT: 6.975 min Scan# 916
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion: 77 Resp: 11872

Ion	Ratio	Lower	Upper
77	100		
123	39.3	36.3	54.5
65	12.9	11.6	17.4

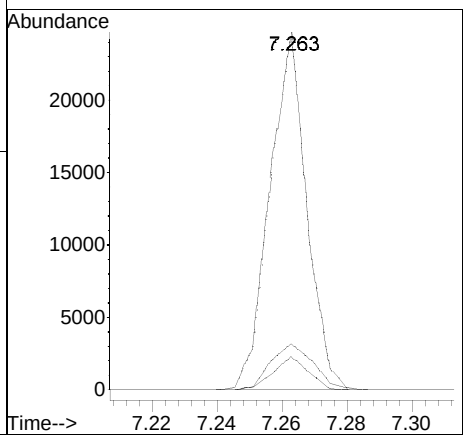


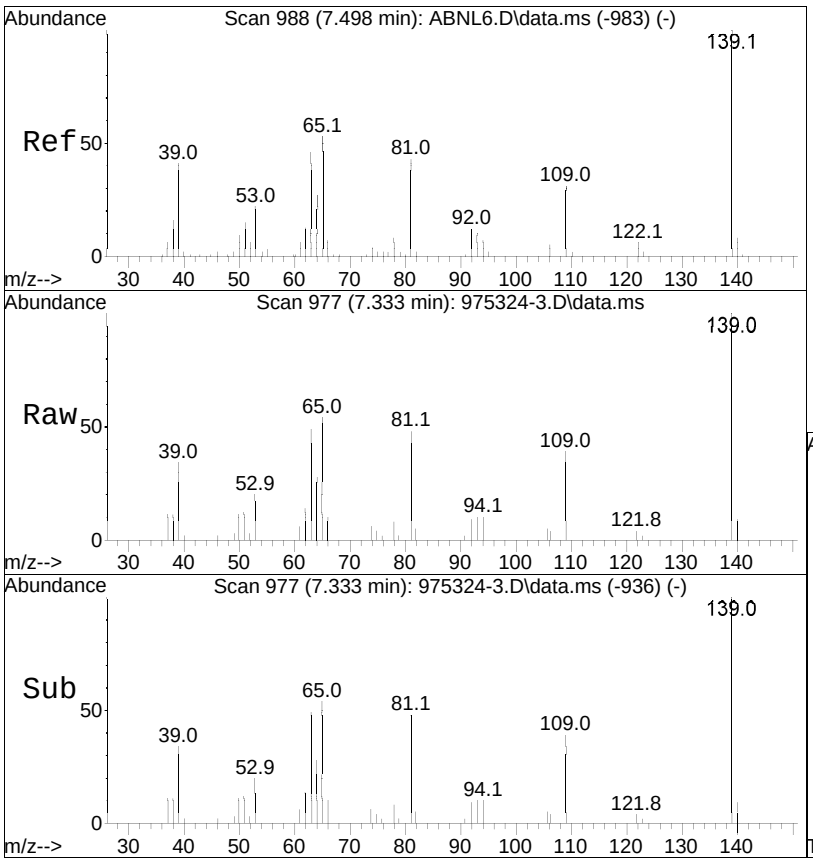


#21
Isophorone
Concen: 1.25 ug/ml
RT: 7.263 min Scan# 965
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion: 82 Resp: 19159

Ion	Ratio	Lower	Upper
82	100		
138	15.3	14.7	22.1
95	9.1	5.2	7.8#

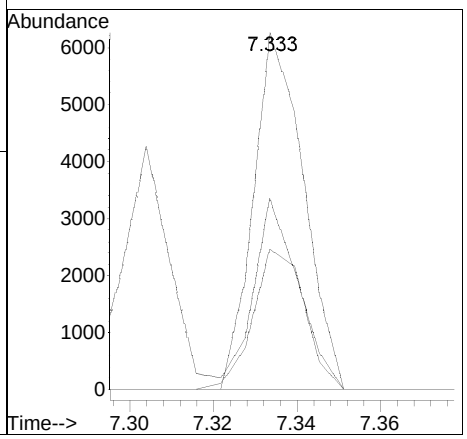


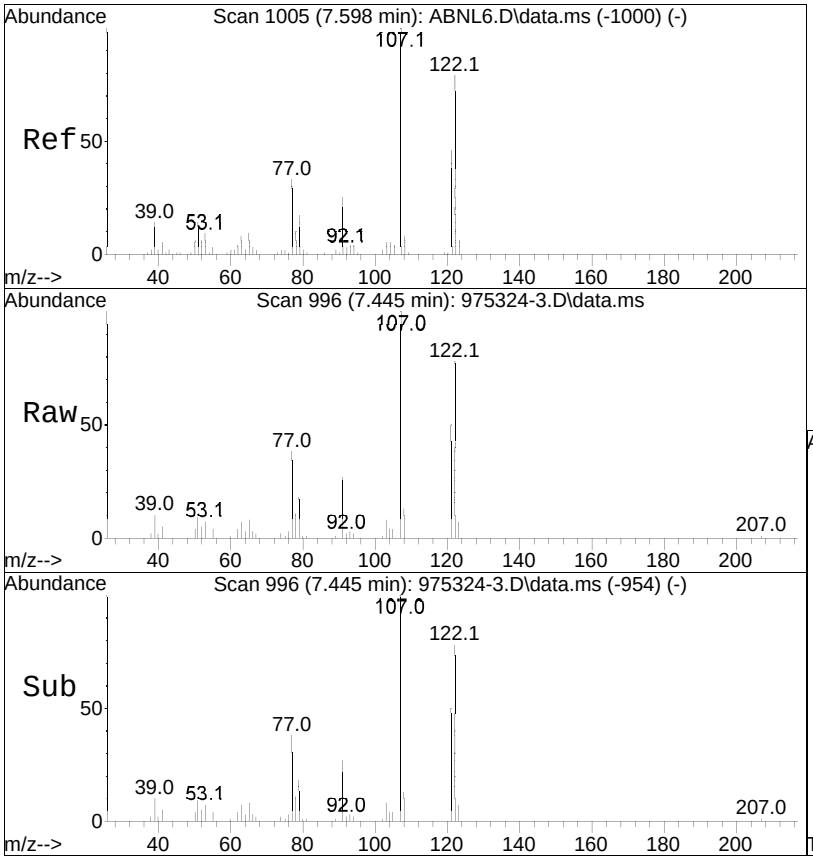


#22
2-Nitrophenol
Concen: 1.36 ug/ml
RT: 7.333 min Scan# 977
Delta R.T. -0.006 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:139 Resp: 5219

Ion	Ratio	Lower	Upper
139	100		
109	40.4	19.4	29.0#
65	47.5	46.1	69.1

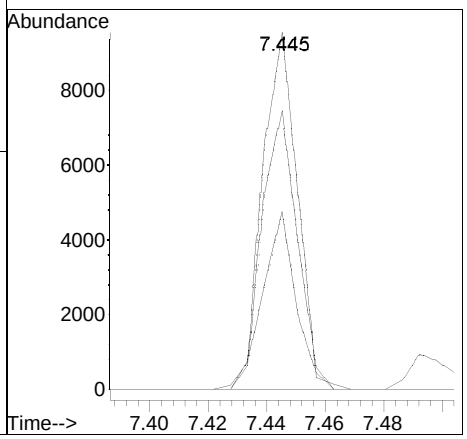


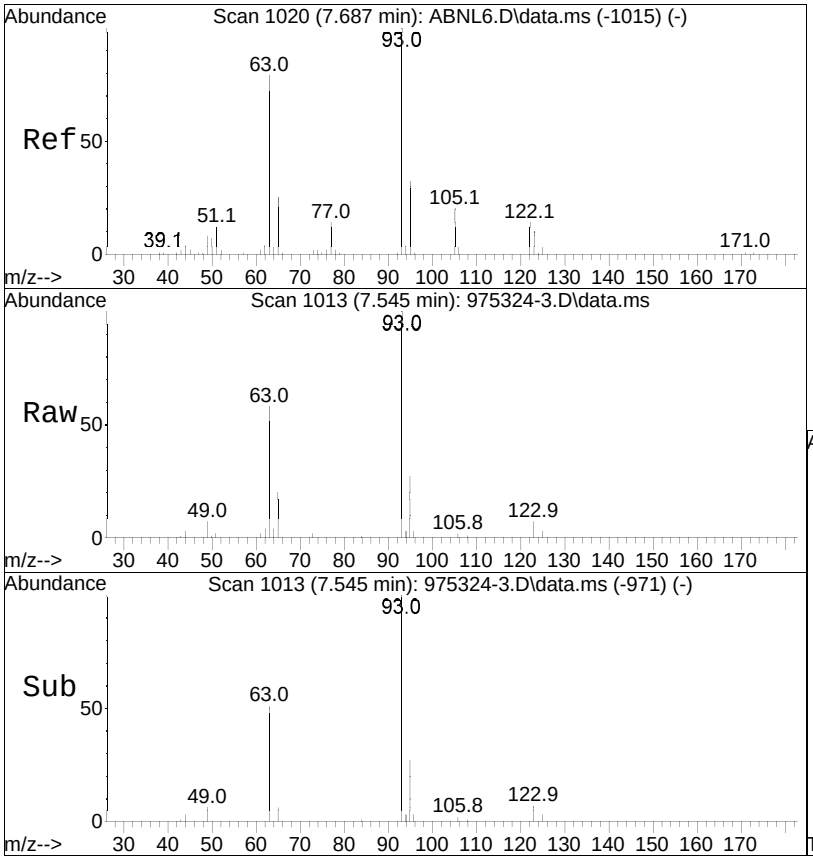


#23
2,4-Dimethylphenol
Concen: 1.09 ug/ml
RT: 7.445 min Scan# 996
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:107 Resp: 7842

Ion	Ratio	Lower	Upper
107	100		
121	47.7	40.0	60.0
122	79.3	70.2	105.4

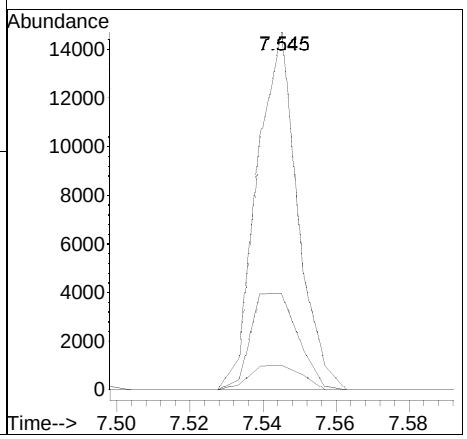


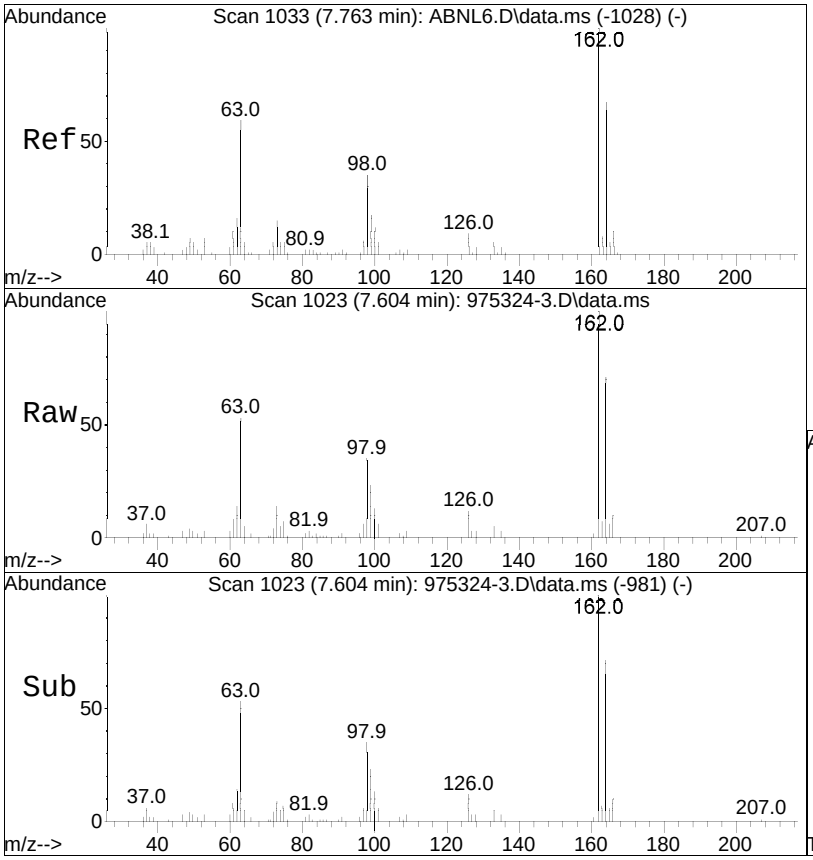


#24
Bis(2-chloroethoxy)methane
Concen: 1.15 ug/ml
RT: 7.545 min Scan# 1013
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion: 93 Resp: 11282

Ion	Ratio	Lower	Upper
93	100		
95	31.3	25.8	38.8
123	8.7	10.1	15.1#

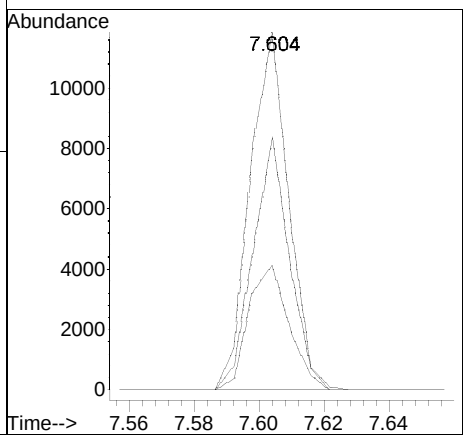


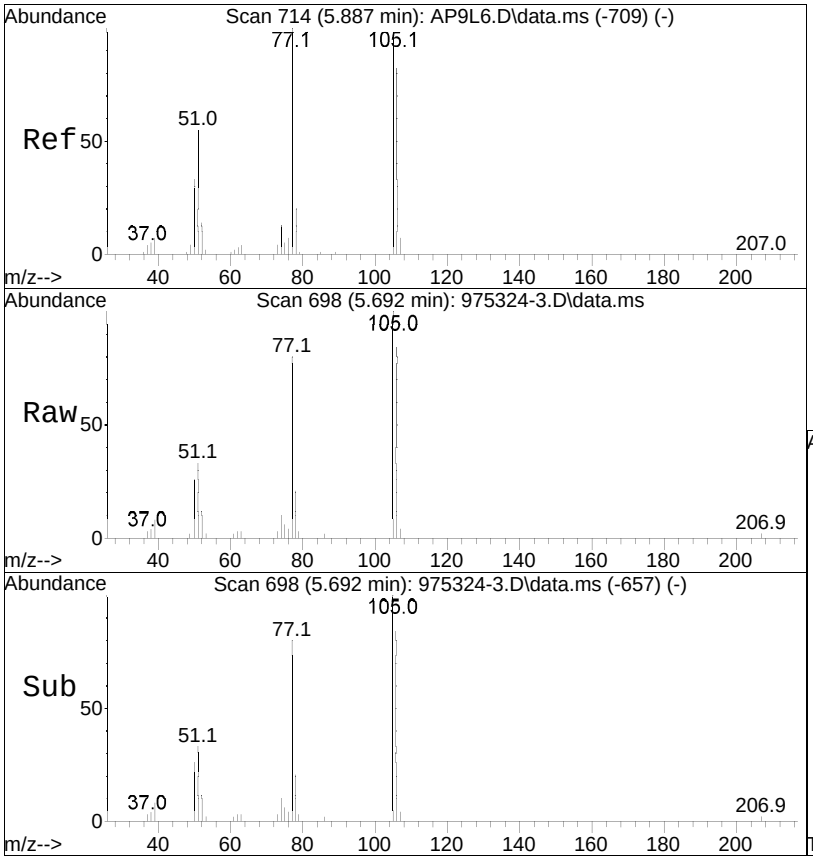


#25
2,4-Dichlorophenol
Concen: 1.42 ug/ml
RT: 7.604 min Scan# 1023
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:162 Resp: 9703

Ion	Ratio	Lower	Upper
162	100		
164	66.6	51.0	76.4
98	36.8	32.2	48.2

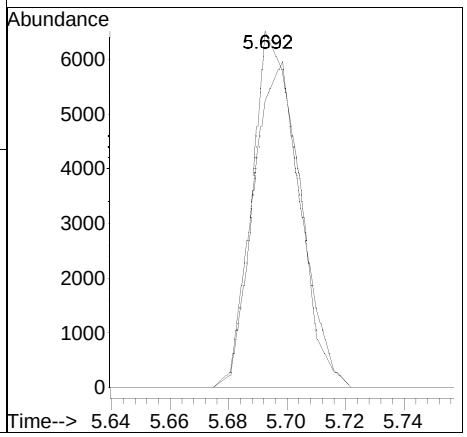


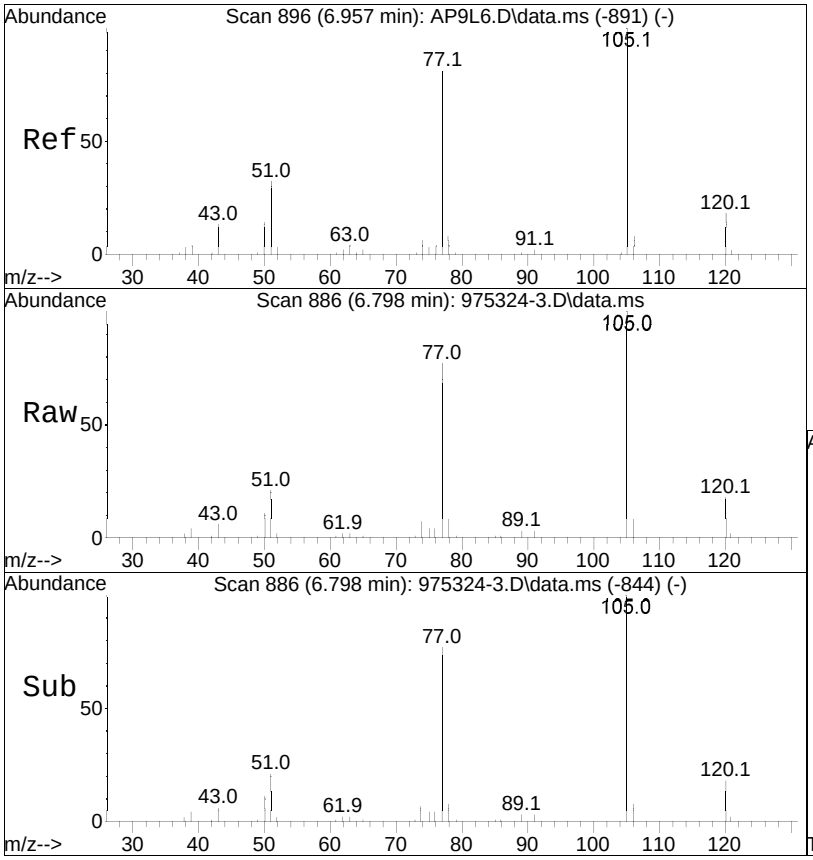


#28
Benzaldehyde
Concen: 1.07 ug/ml
RT: 5.692 min Scan# 698
Delta R.T. -0.006 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:105 Resp: 7036

Ion	Ratio	Lower	Upper
105	100		
77	97.5	82.2	123.4

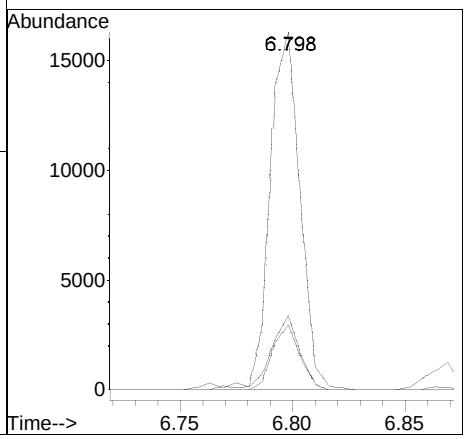


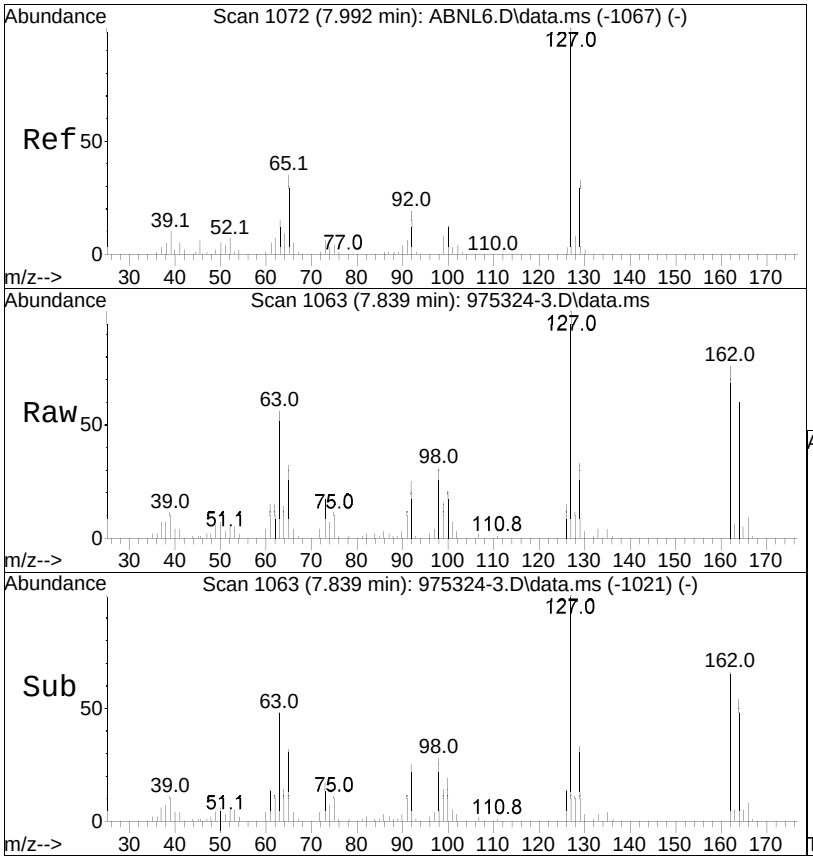


#29
Acetophenone
Concen: 1.25 ug/ml
RT: 6.798 min Scan# 886
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:105 Resp: 14926

Ion	Ratio	Lower	Upper
105	100		
120	16.8	20.5	30.7#
51	20.4	34.9	52.3#

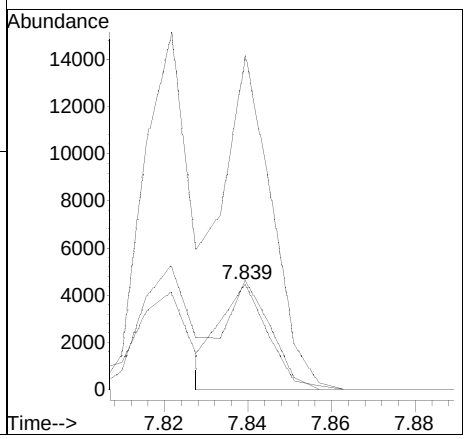


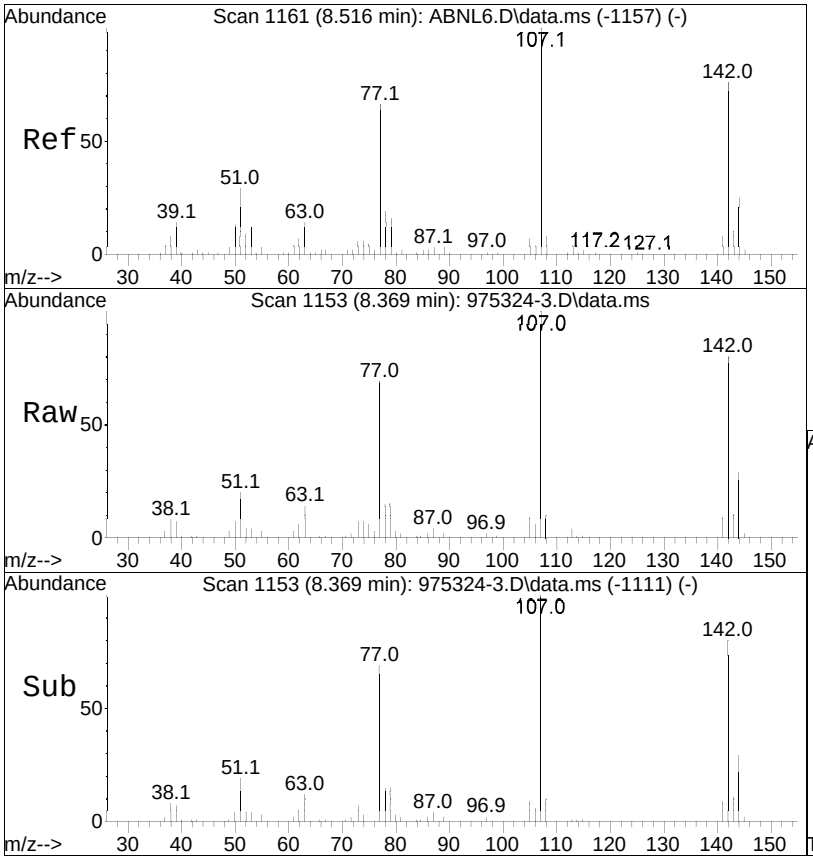


#38
4-Chloroaniline
Concen: 1.06 ug/ml
RT: 7.839 min Scan# 1063
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion: 65 Resp: 3577

Ion	Ratio	Lower	Upper
65	100		
127	0.0	237.6	356.4#
129	0.0	76.3	114.5#

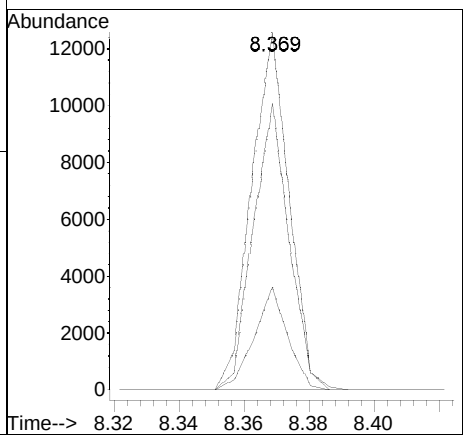


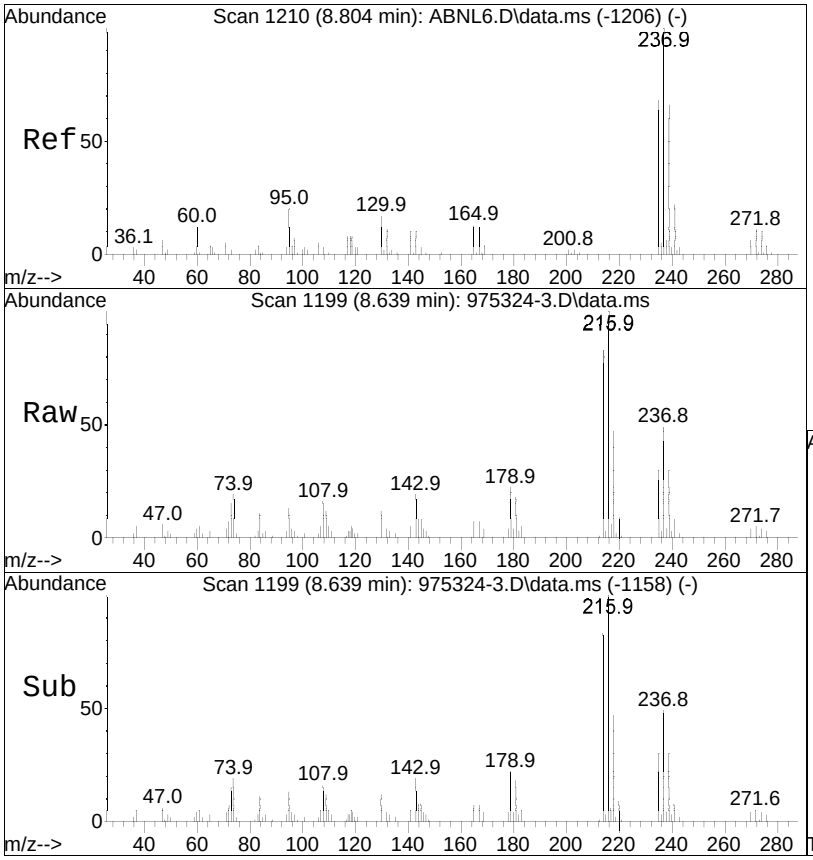


#40
p-Chloro-m-cresol
Concen: 1.47 ug/ml
RT: 8.369 min Scan# 1153
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:107 Resp: 9995

Ion	Ratio	Lower	Upper
107	100		
144	25.7	20.9	31.3
142	76.1	66.1	99.1

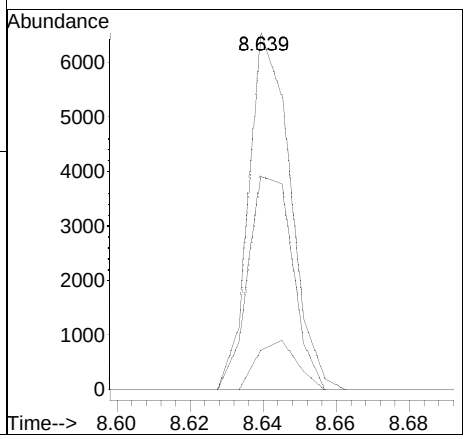


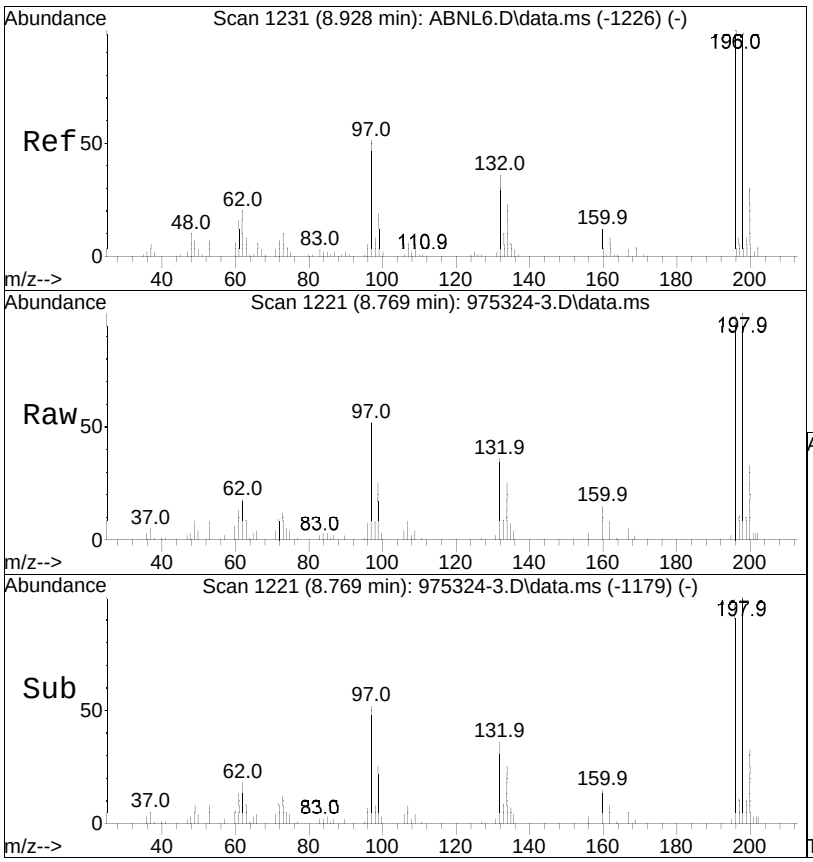


#43
Hexachlorocyclopentadiene
Concen: 0.77 ug/ml
RT: 8.639 min Scan# 1199
Delta R.T. -0.006 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:237 Resp: 5144

Ion	Ratio	Lower	Upper
237	100		
235	64.6	49.7	74.5
272	13.5	9.8	14.6

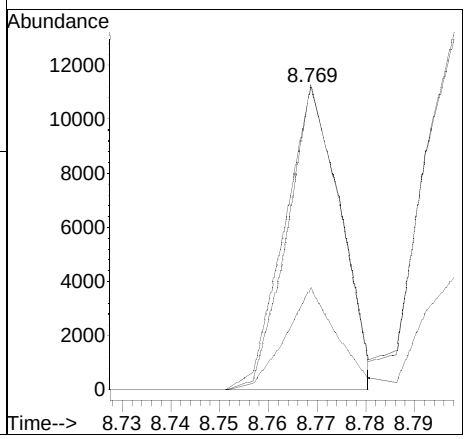


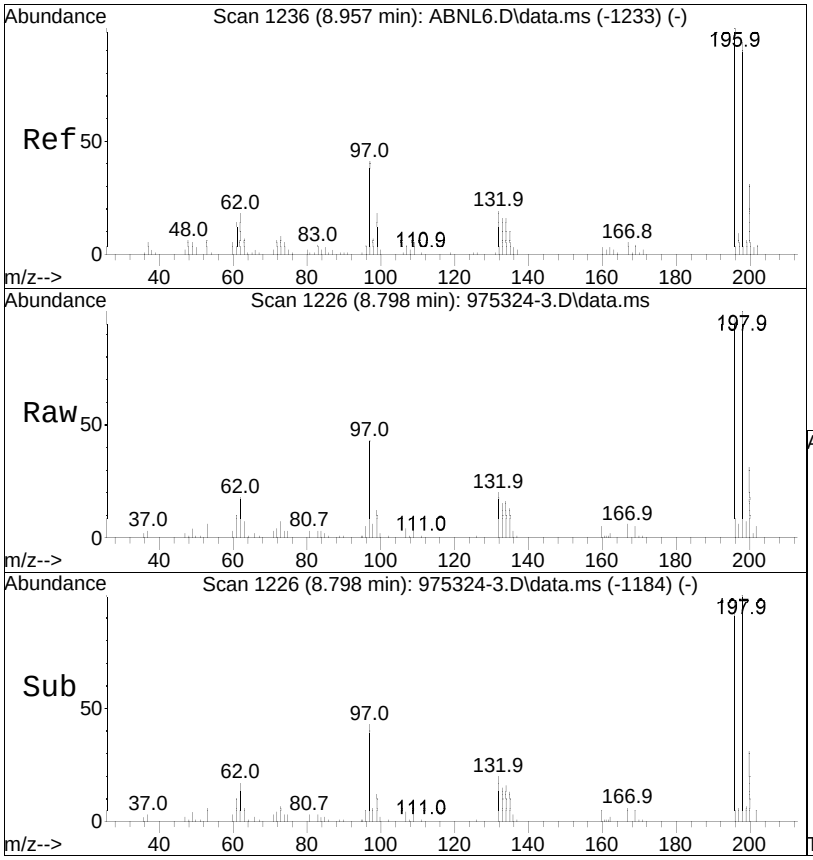


#44
2,4,6-Trichlorophenol
Concen: 1.50 ug/ml
RT: 8.769 min Scan# 1221
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:196 Resp: 8989

Ion	Ratio	Lower	Upper
196	100		
198	95.0	77.5	116.3
200	32.5	23.8	35.6

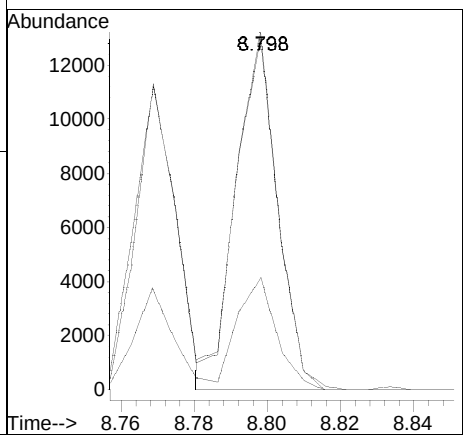


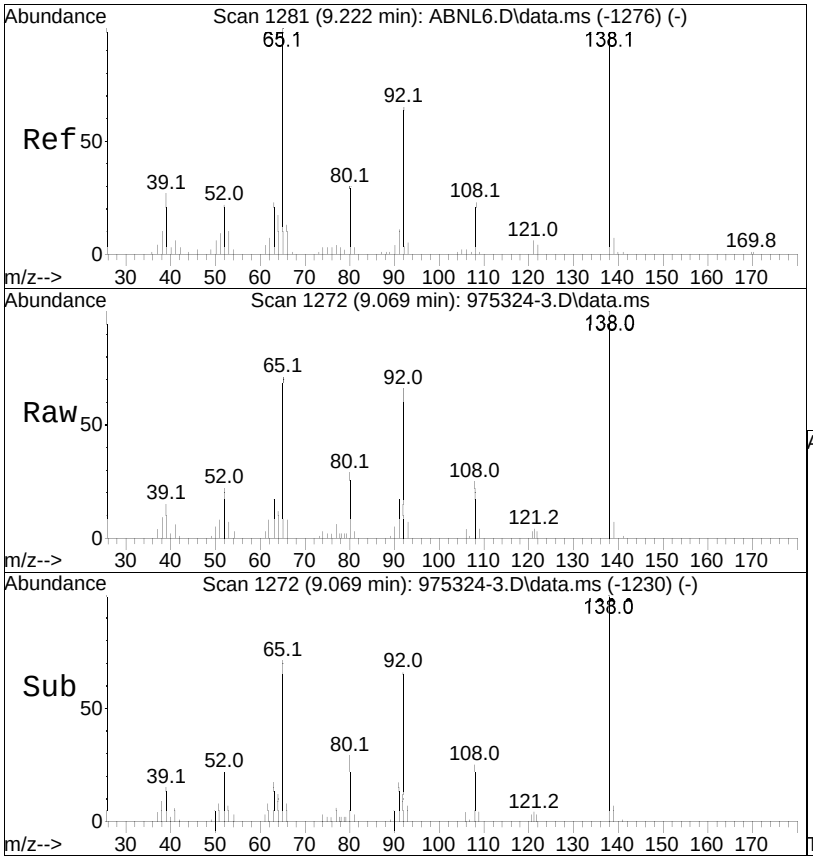


#45
2,4,5-Trichlorophenol
Concen: 1.61 ug/ml
RT: 8.798 min Scan# 1226
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:196 Resp: 10271

Ion	Ratio	Lower	Upper
196	100		
200	30.1	25.4	38.0
198	100.4	78.0	117.0

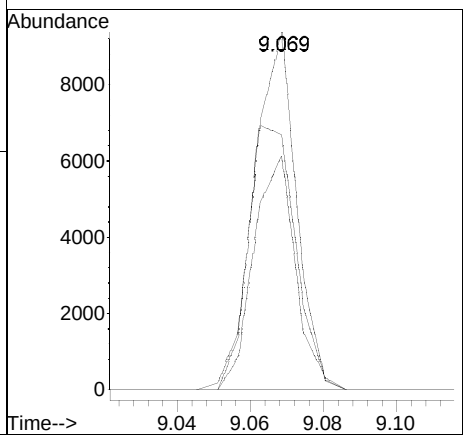


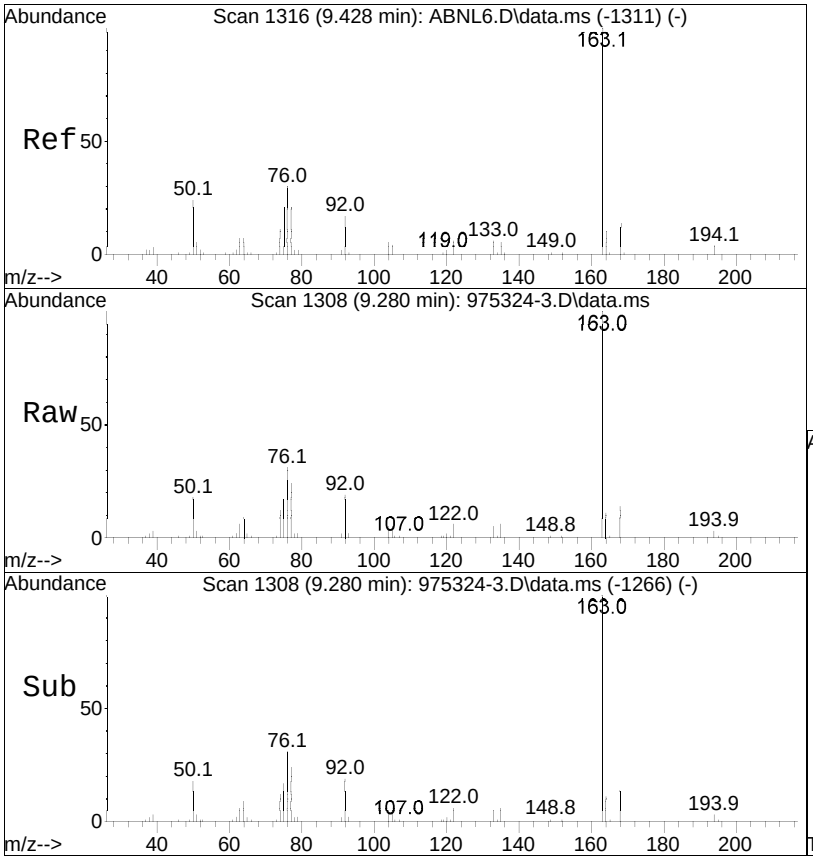


#48
2-Nitroaniline
Concen: 1.52 ug/ml
RT: 9.069 min Scan# 1272
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:138 Resp: 7417

Ion	Ratio	Lower	Upper
138	100		
92	65.5	53.5	80.3
65	84.6	86.3	129.5#

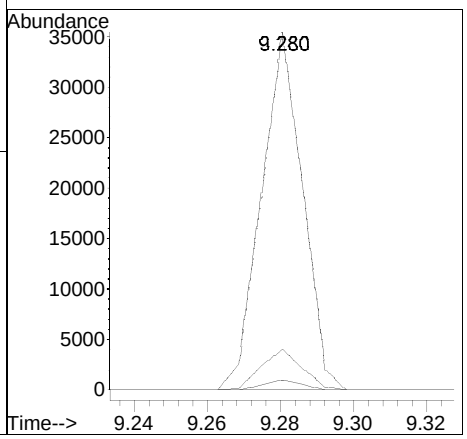


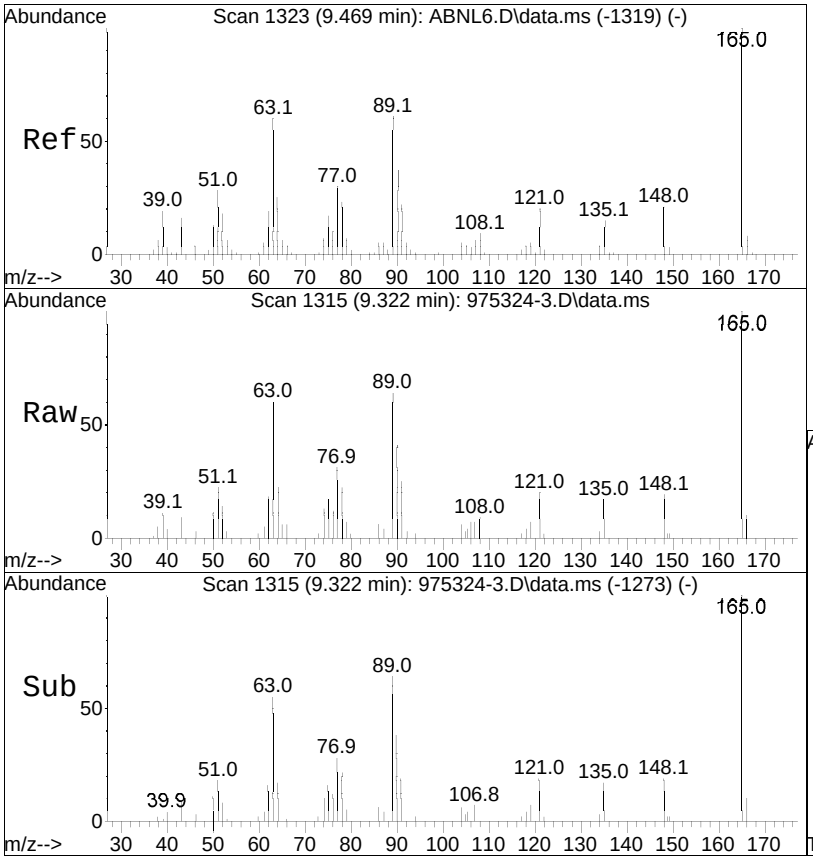


#51
Dimethyl phthalate
Concen: 1.40 ug/ml
RT: 9.280 min Scan# 1308
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:163 Resp: 27465

Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	11.5	7.9	11.9

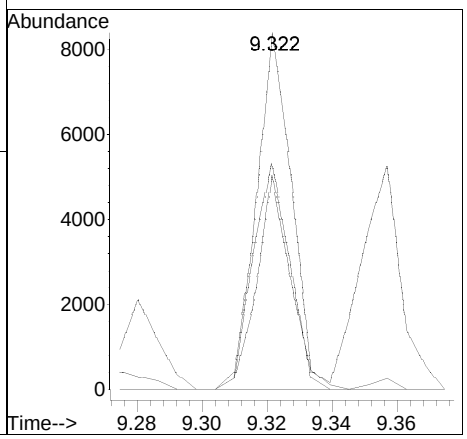


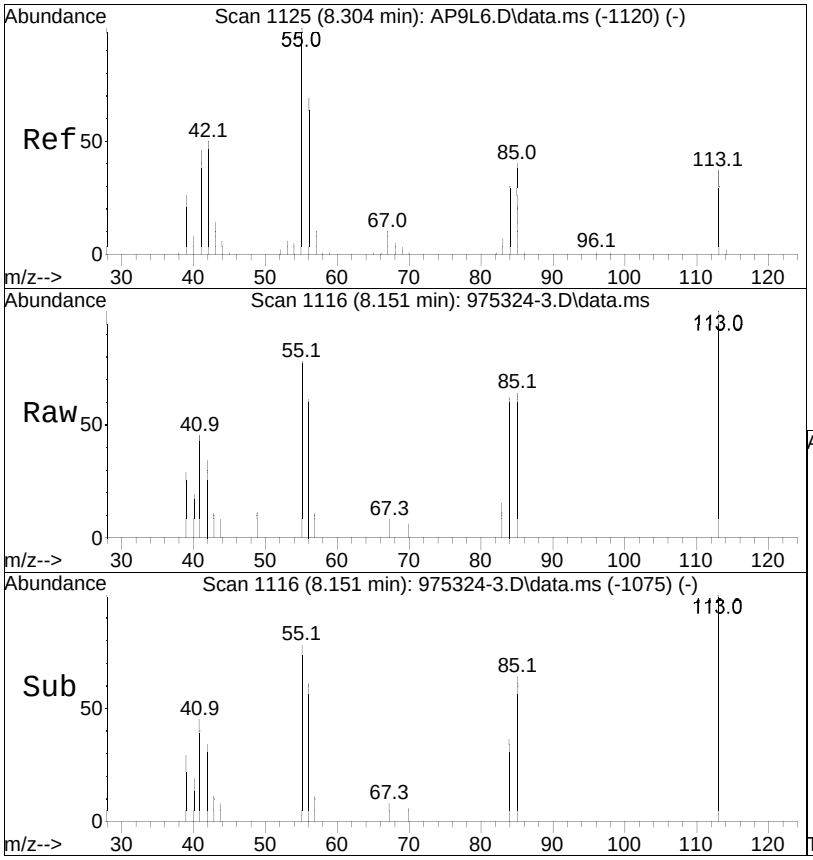


#53
2,6-Dinitrotoluene
Concen: 1.49 ug/ml
RT: 9.322 min Scan# 1315
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:165 Resp: 6323

Ion	Ratio	Lower	Upper
165	100		
89	66.4	54.2	81.2
63	57.6	64.2	96.2#

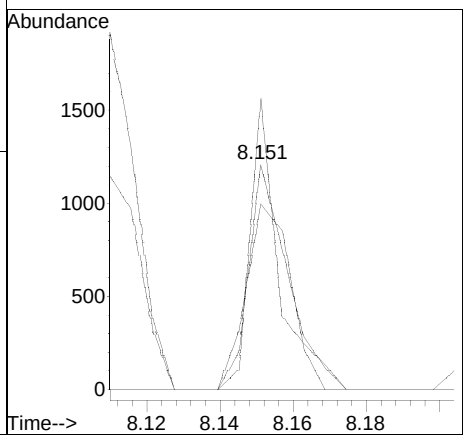


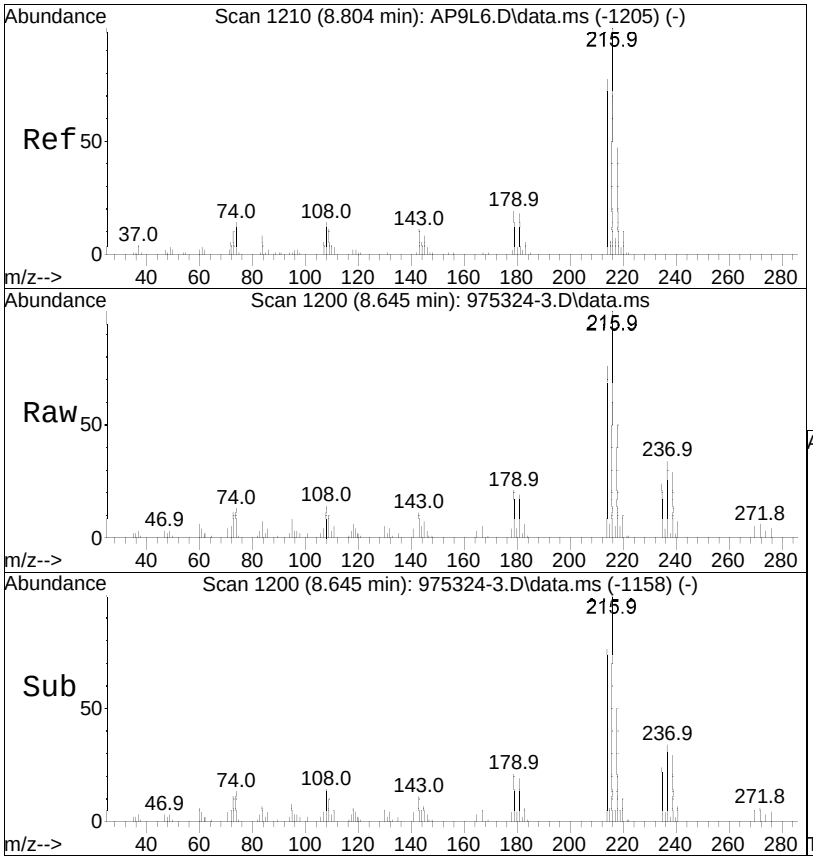


#60
Caprolactam
Concen: 0.22 ug/ml
RT: 8.151 min Scan# 1116
Delta R.T. -0.006 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion: 55 Resp: 905

Ion	Ratio	Lower	Upper
55	100		
85	93.1	19.8	29.6#
113	95.2	29.6	44.4#

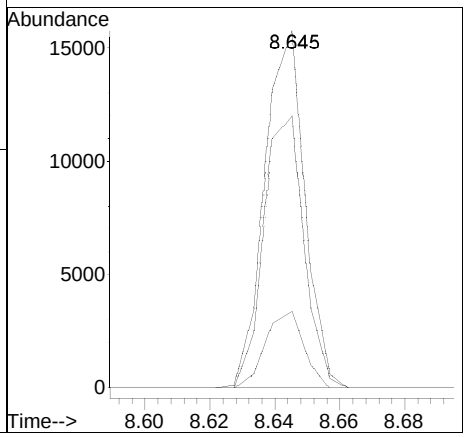


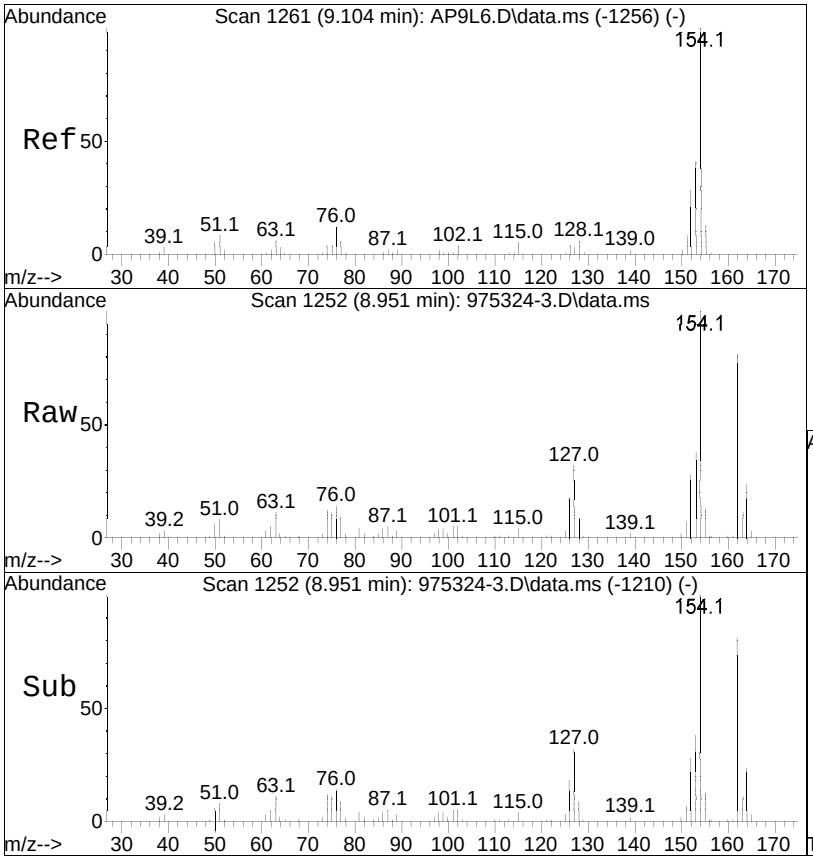


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.24 ug/ml
RT: 8.645 min Scan# 1200
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:216 Resp: 13495

Ion	Ratio	Lower	Upper
216	100		
214	76.5	63.7	95.5
179	20.5	19.0	28.6

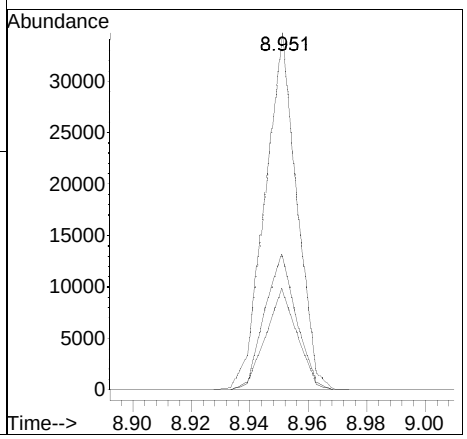


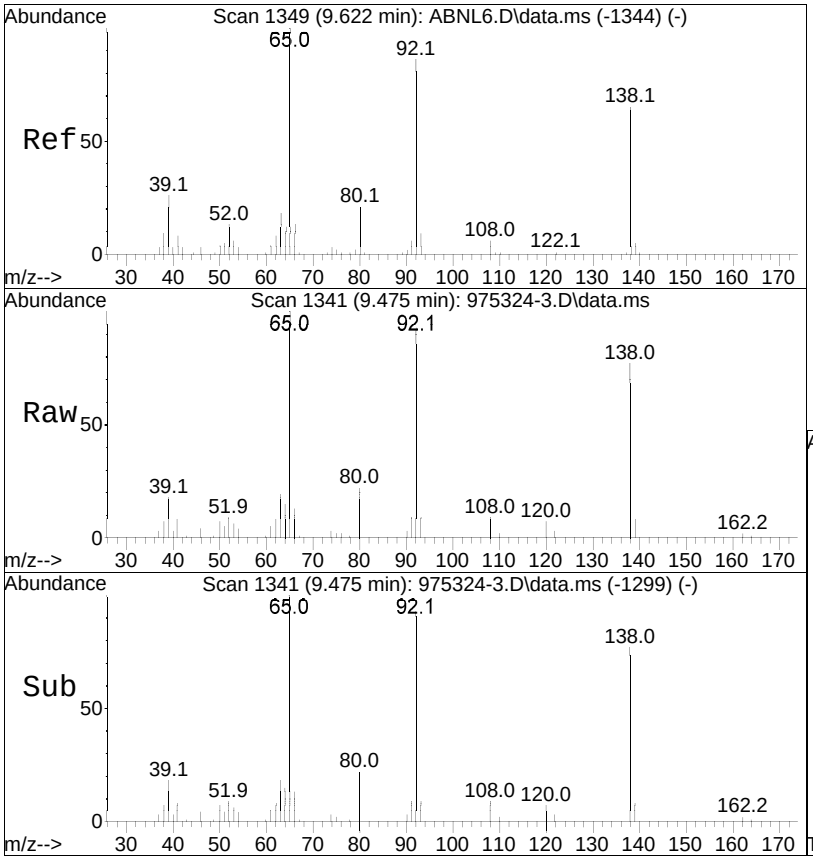


#62
Biphenyl
Concen: 1.21 ug/ml
RT: 8.951 min Scan# 1252
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:154 Resp: 26169

Ion	Ratio	Lower	Upper
154	100		
153	37.9	32.3	48.5
152	28.3	22.5	33.7

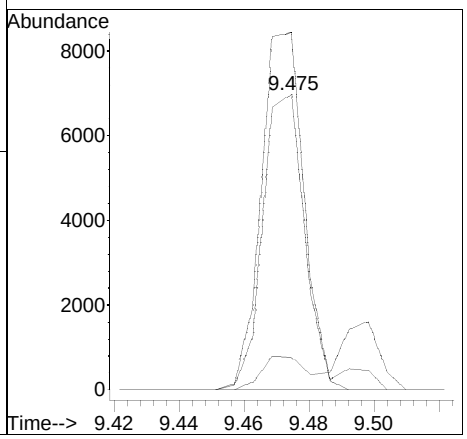


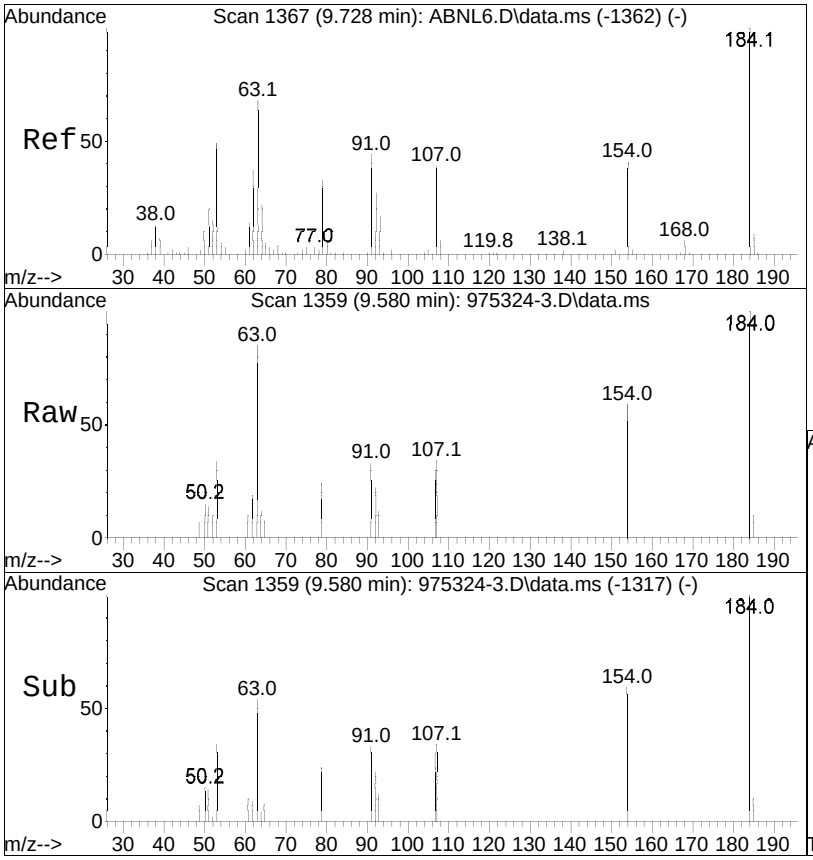


#64
3-Nitroaniline
Concen: 1.33 ug/ml
RT: 9.475 min Scan# 1341
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:138 Resp: 6160

Ion	Ratio	Lower	Upper
138	100		
92	129.7	93.4	140.2
108	12.1	9.5	14.3

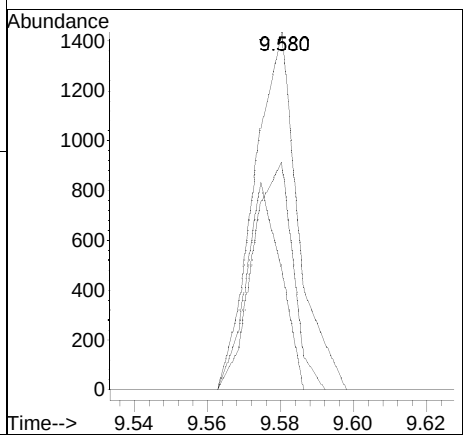


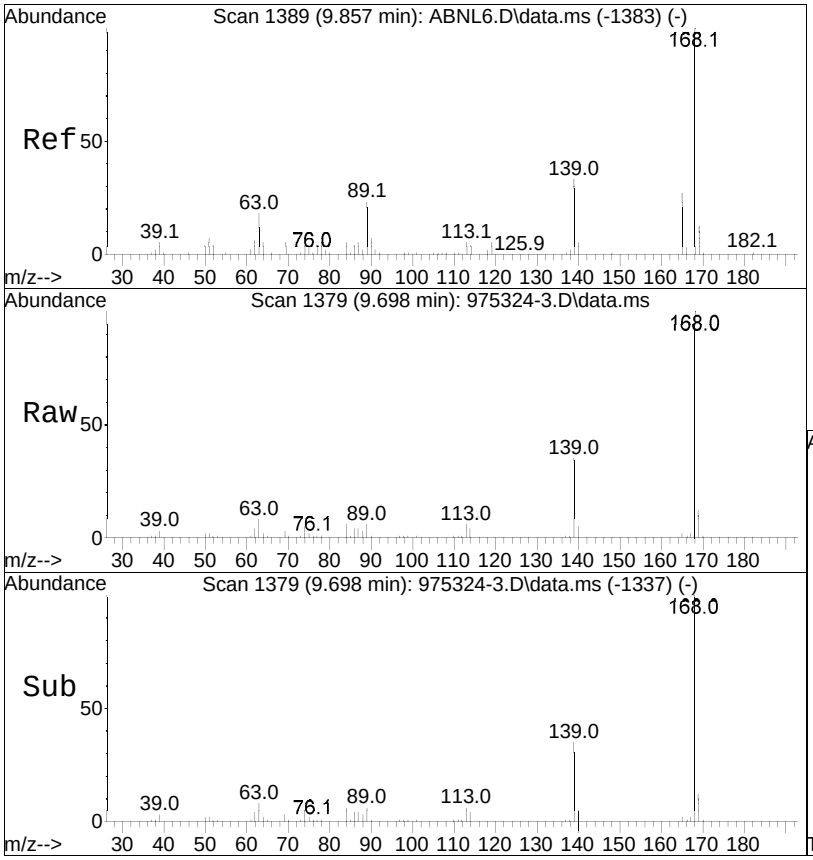


#66
2,4-Dinitrophenol
Concen: 0.39 ug/ml
RT: 9.580 min Scan# 1359
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:184 Resp: 1198

Ion	Ratio	Lower	Upper
184	100		
107	57.8	37.7	56.5#
91	45.7	46.3	69.5#

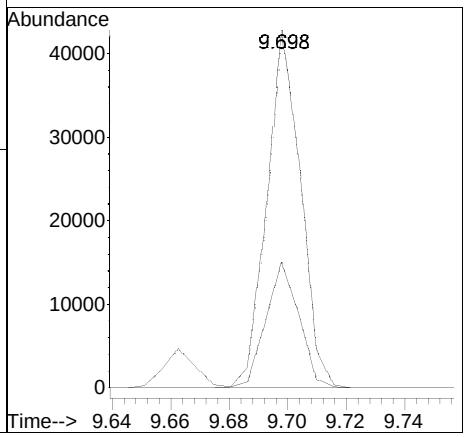


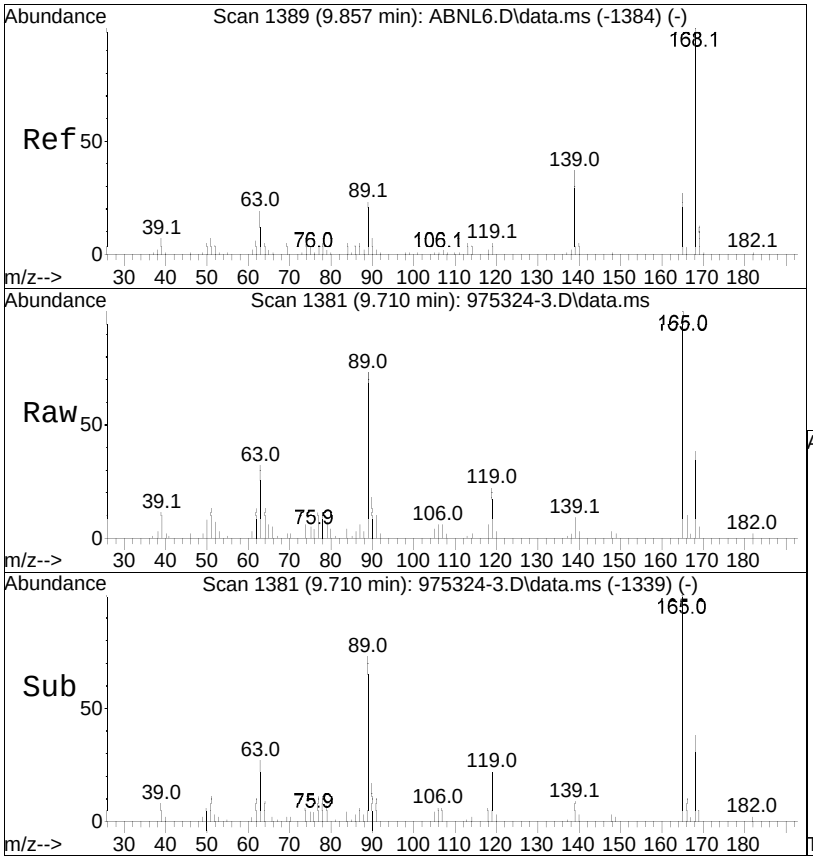


#67
Dibenzofuran
Concen: 1.20 ug/ml
RT: 9.698 min Scan# 1379
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:168 Resp: 33734

Ion	Ratio	Lower	Upper
168	100		
139	34.7	31.4	47.2

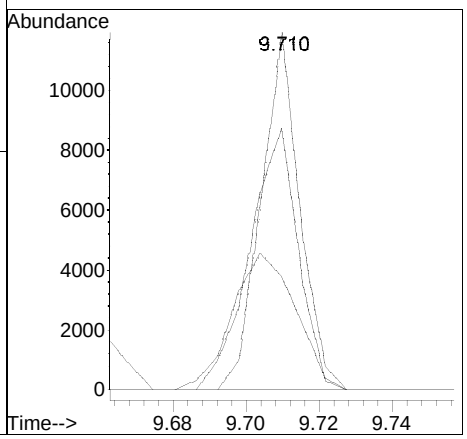


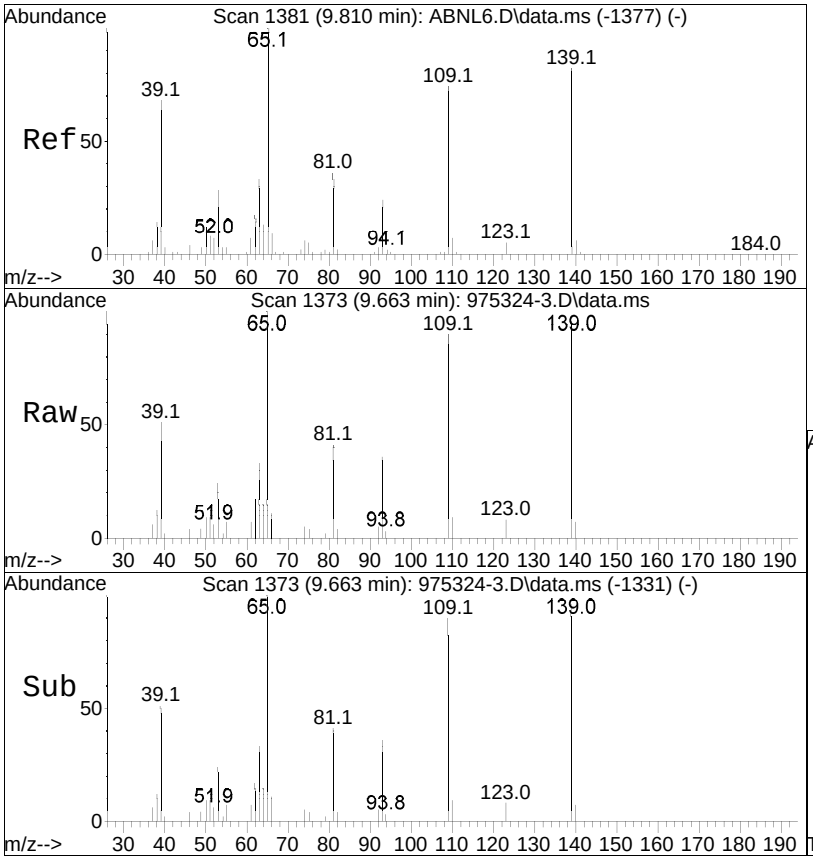


#68
2,4-Dinitrotoluene
Concen: 1.26 ug/ml
RT: 9.710 min Scan# 1381
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:165 Resp: 8704

Ion	Ratio	Lower	Upper
165	100		
89	92.2	72.0	108.0
63	62.9	52.7	79.1

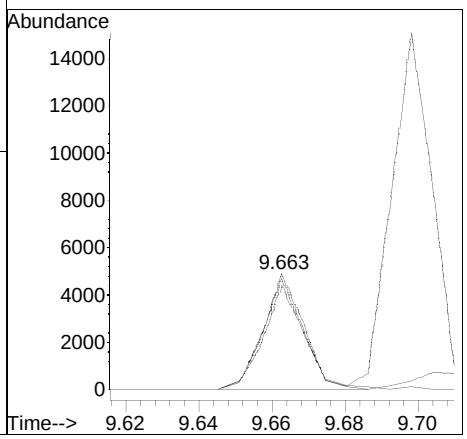


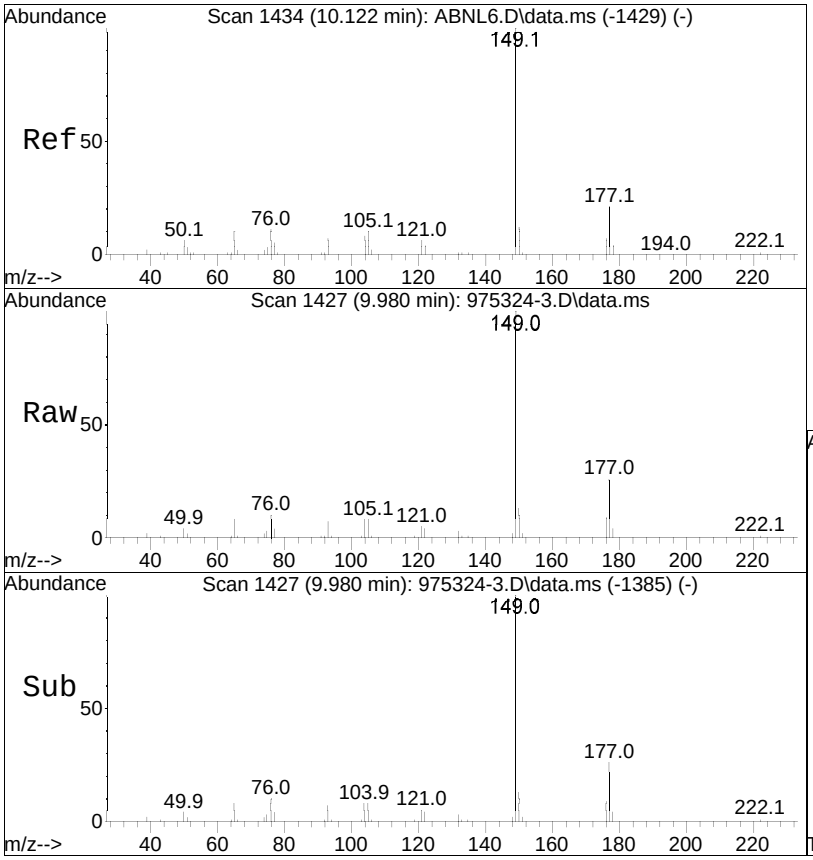


#69
4-Nitrophenol
Concen: 0.80 ug/ml
RT: 9.663 min Scan# 1373
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion: 65 Resp: 3730

Ion	Ratio	Lower	Upper
65	100		
109	92.7	47.4	71.2#
139	96.5	76.6	115.0

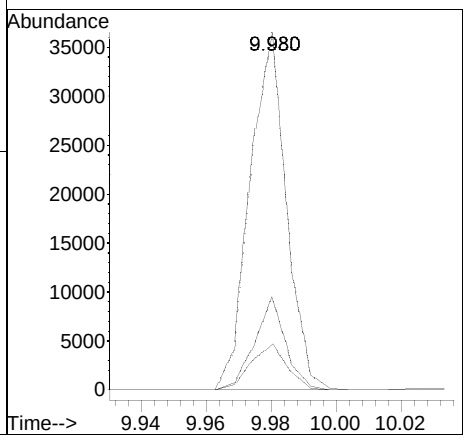


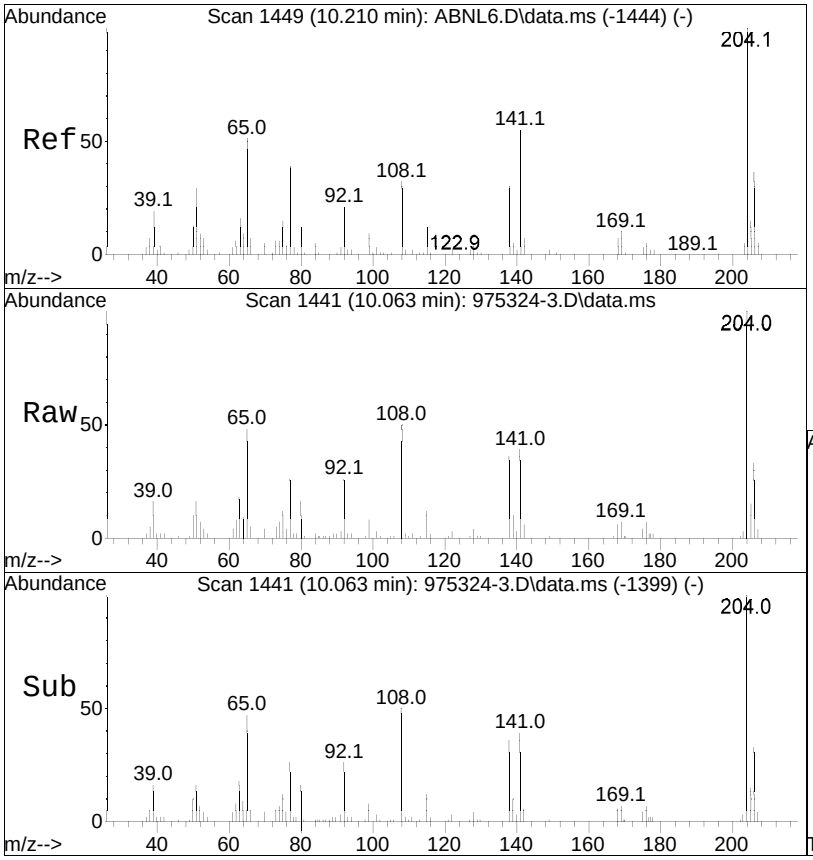


#72
Diethyl phthalate
Concen: 1.26 ug/ml
RT: 9.980 min Scan# 1427
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:149 Resp: 28027

Ion	Ratio	Lower	Upper
149	100		
177	22.2	16.1	24.1
150	12.8	9.4	14.2

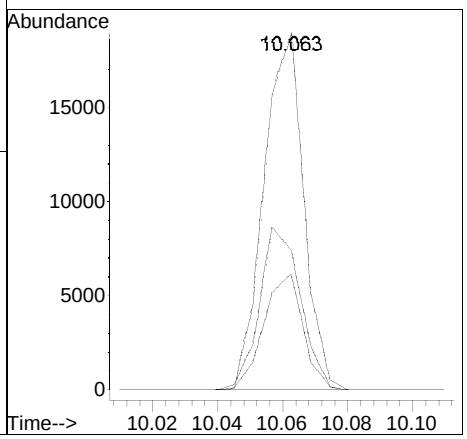


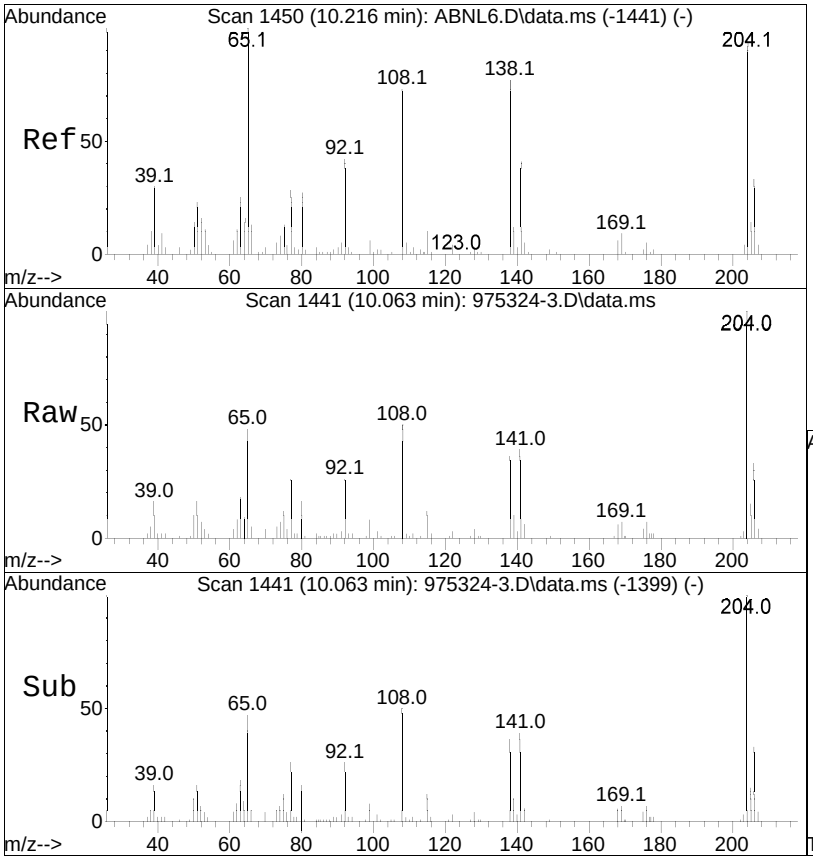


#74
4-Chlorophenyl phenyl ether
Concen: 1.38 ug/ml
RT: 10.063 min Scan# 1441
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:204 Resp: 15973

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.8	38.6
141	47.2	53.6	80.4#

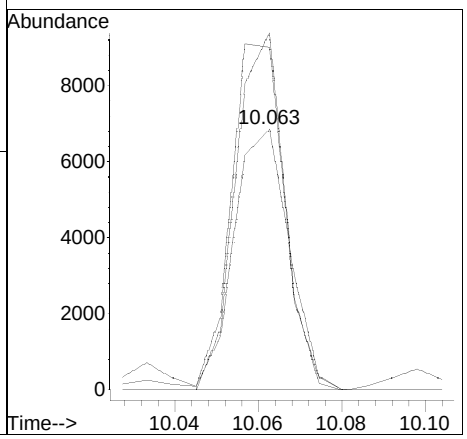


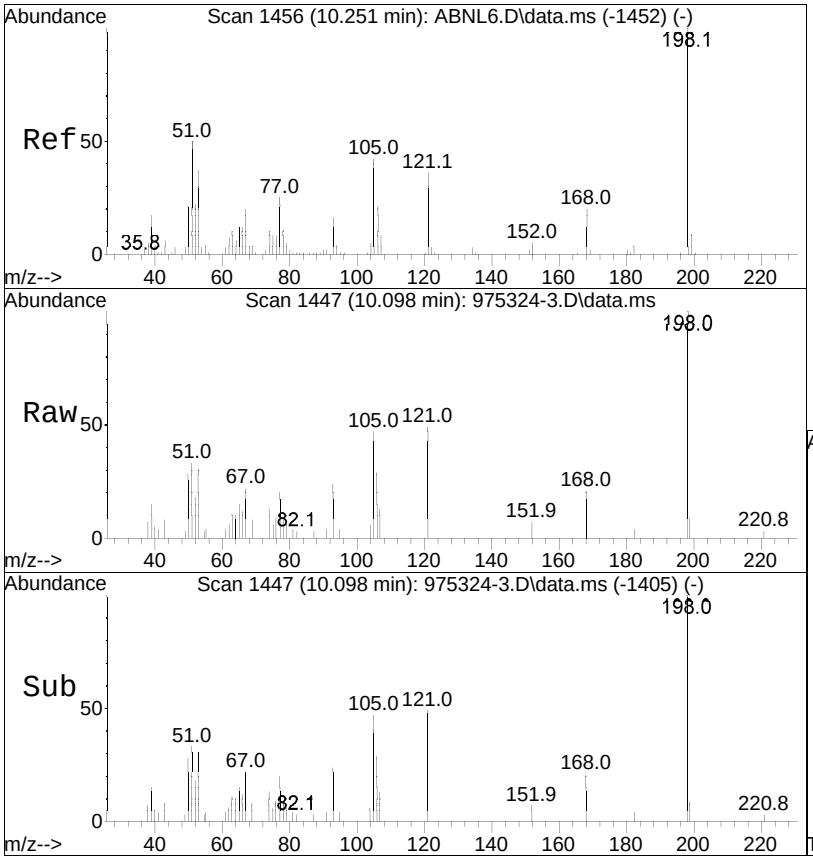


#75
4-Nitroaniline
Concen: 1.30 ug/ml
RT: 10.063 min Scan# 1441
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:138 Resp: 6271

Ion	Ratio	Lower	Upper
138	100		
108	121.6	52.1	78.1#
65	131.4	115.0	172.6

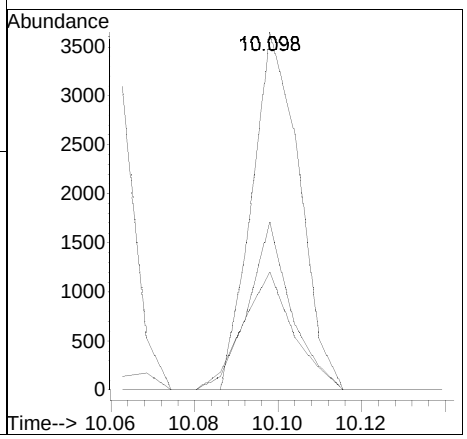


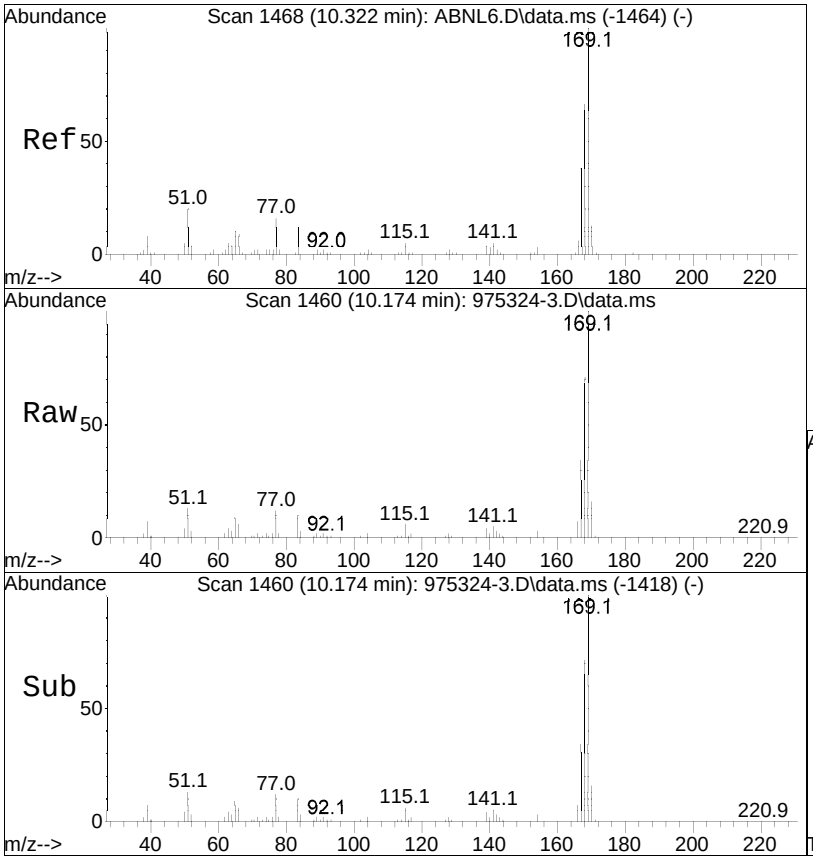


#76
4,6-Dinitro-o-cresol
Concen: 0.75 ug/ml
RT: 10.098 min Scan# 1447
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:198 Resp: 2882

Ion	Ratio	Lower	Upper
198	100		
51	34.8	76.0	114.0#
105	43.1	45.6	68.4#

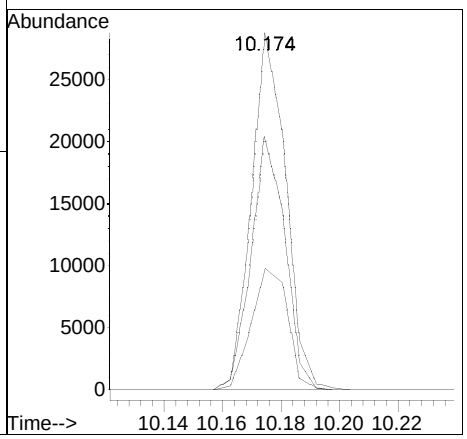


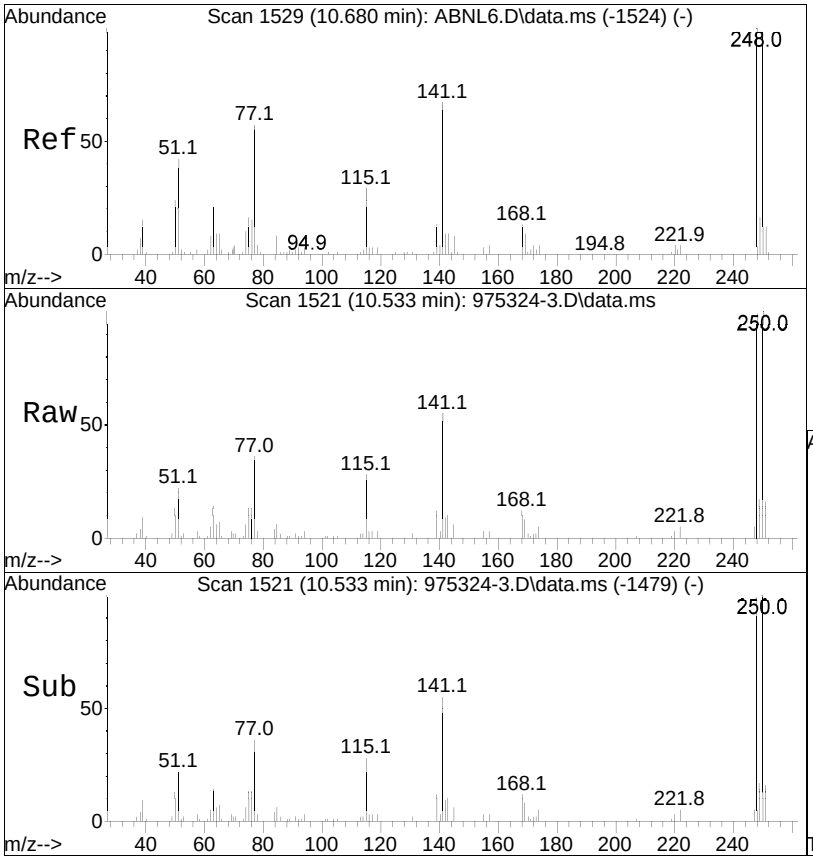


#77
NDPA/DPA
Concen: 1.28 ug/ml
RT: 10.174 min Scan# 1460
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:169 Resp: 23404

Ion	Ratio	Lower	Upper
169	100		
168	70.1	54.0	81.0
167	36.3	28.6	42.8

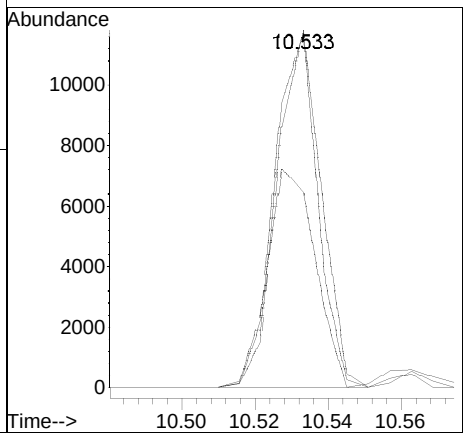


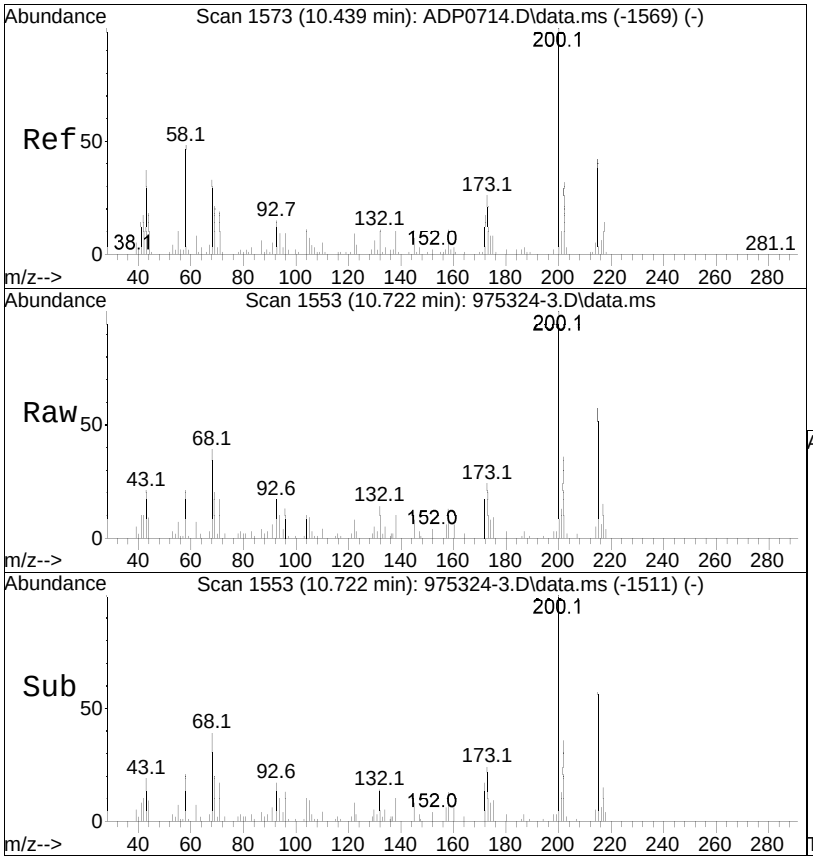


#80
4-Bromophenyl phenyl ether
Concen: 1.32 ug/ml
RT: 10.533 min Scan# 1521
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:248 Resp: 9548

Ion	Ratio	Lower	Upper
248	100		
141	69.3	76.6	114.8#
250	103.1	77.3	115.9

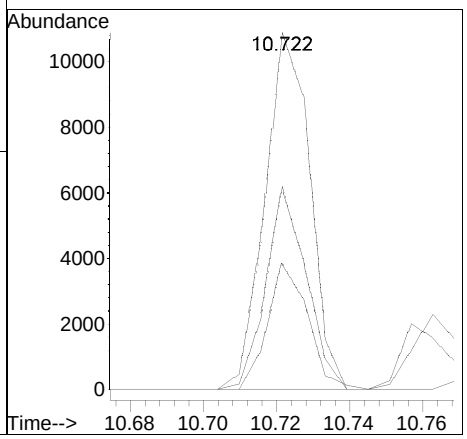


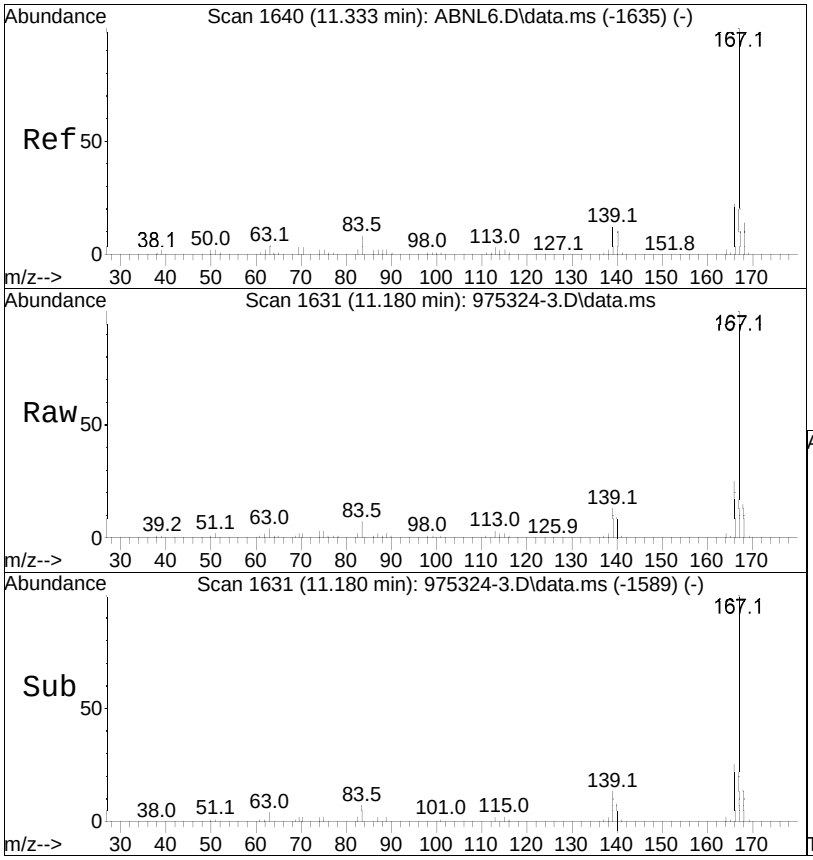


#87
Atrazine
Concen: 1.25 ug/ml
RT: 10.722 min Scan# 1553
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:200 Resp: 9236

Ion	Ratio	Lower	Upper
200	100		
202	31.8	25.8	38.6
215	51.1	40.2	60.4

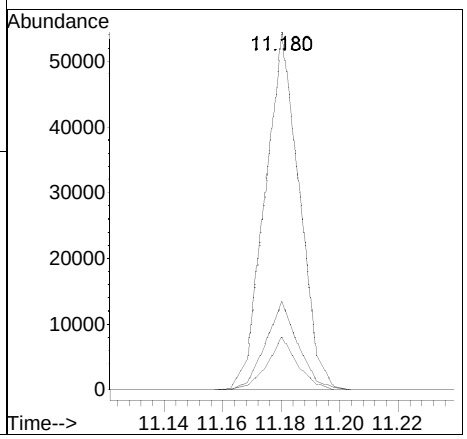


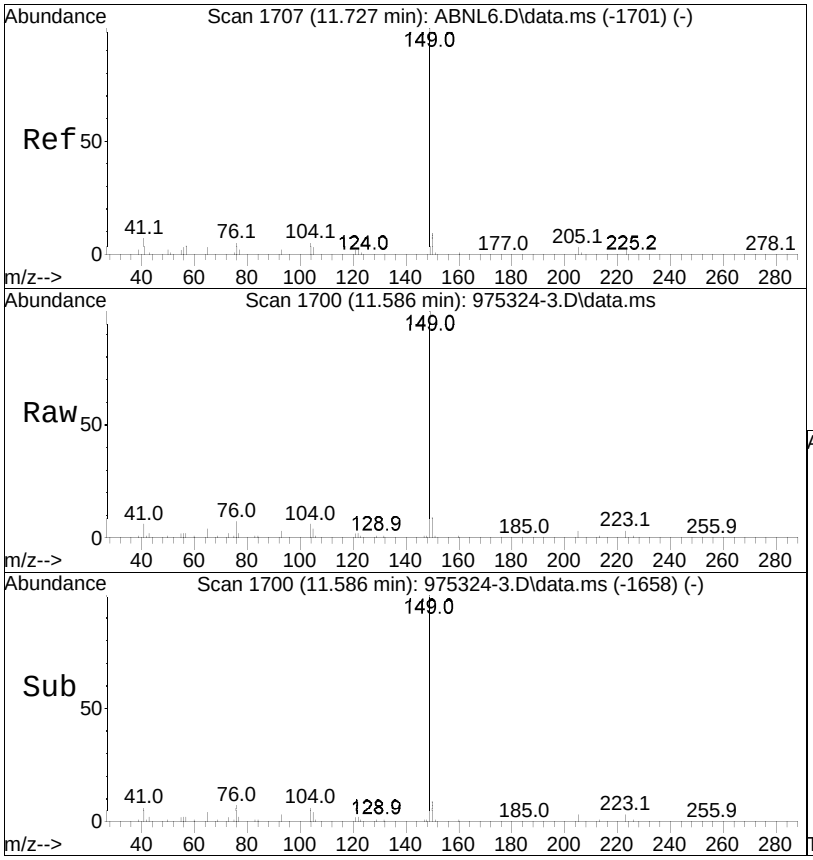


#91
Carbazole
Concen: 1.35 ug/ml
RT: 11.180 min Scan# 1631
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:167 Resp: 43906

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	23.6	17.4	26.0

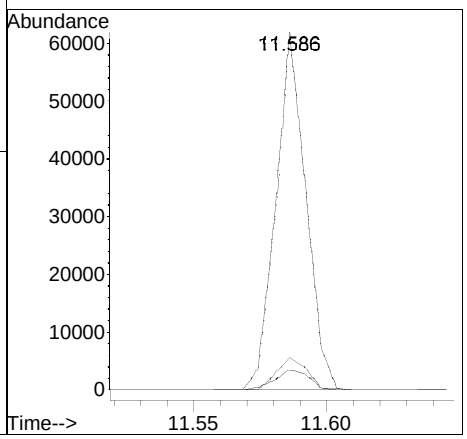


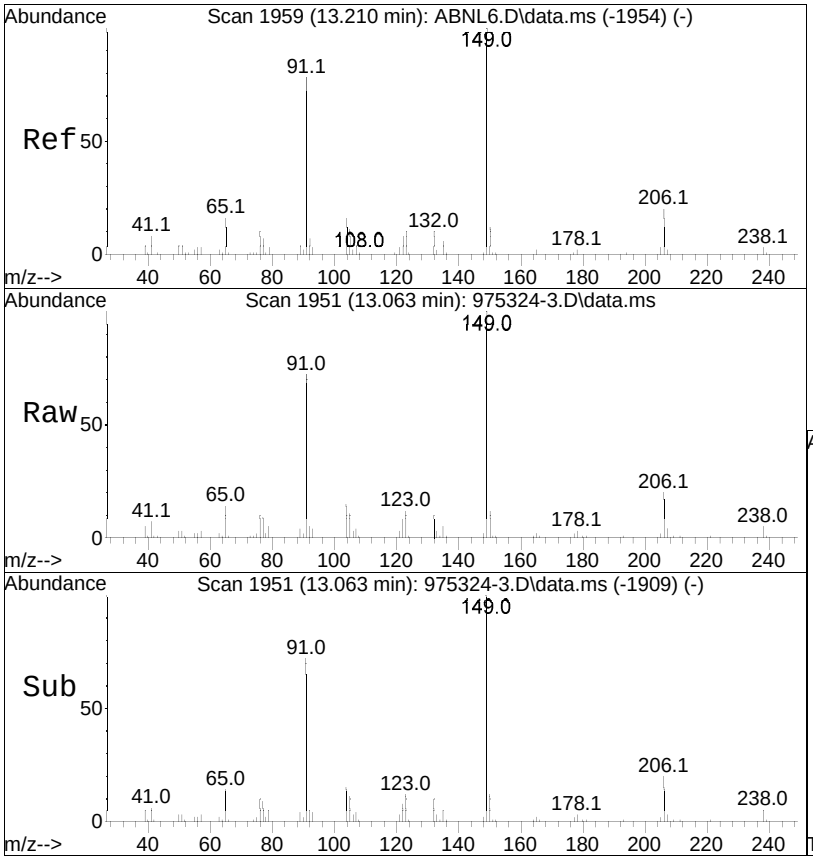


#92
Di-n-butylphthalate
Concen: 1.25 ug/ml
RT: 11.586 min Scan# 1700
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:149 Resp: 47805

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	6.6	4.5	6.7

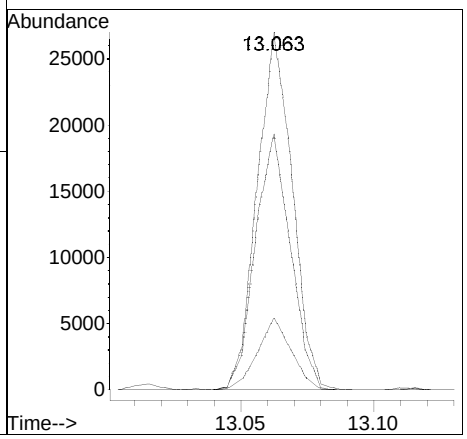


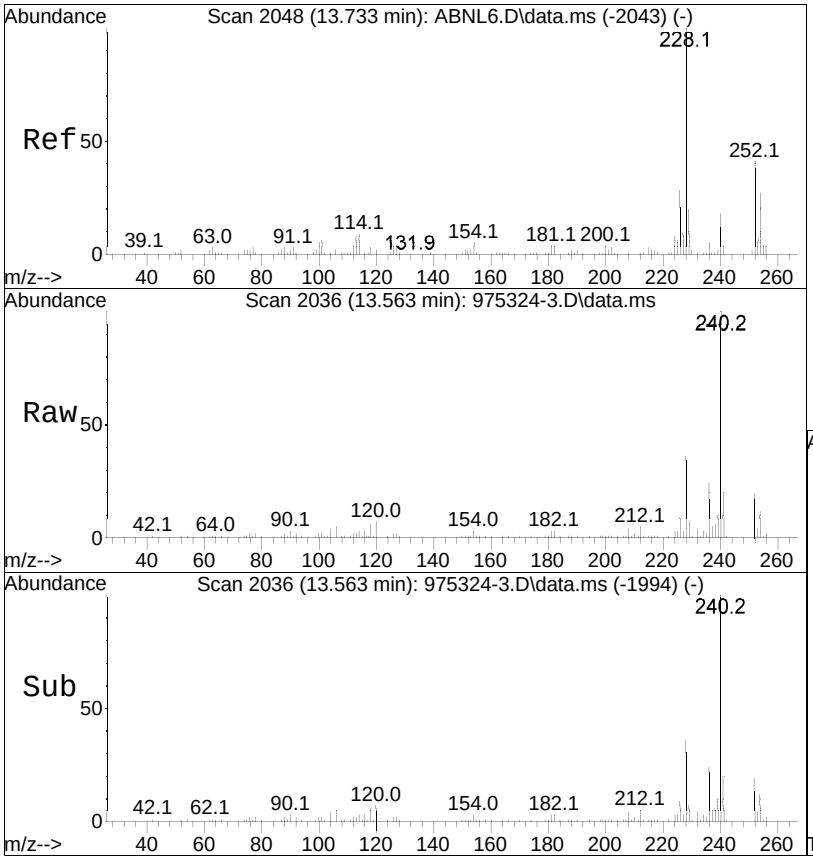


#97
Butyl benzyl phthalate
Concen: 1.39 ug/ml
RT: 13.063 min Scan# 1951
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:149 Resp: 24581

Ion	Ratio	Lower	Upper
149	100		
91	71.7	63.3	94.9
206	19.5	13.9	20.9

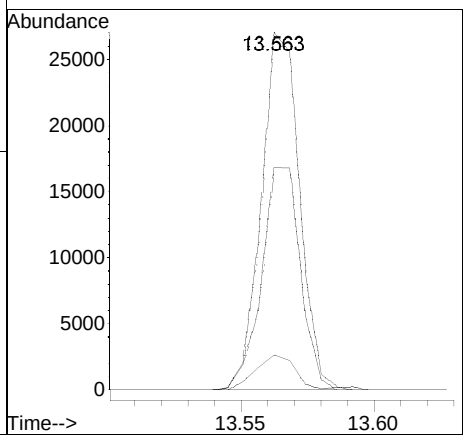


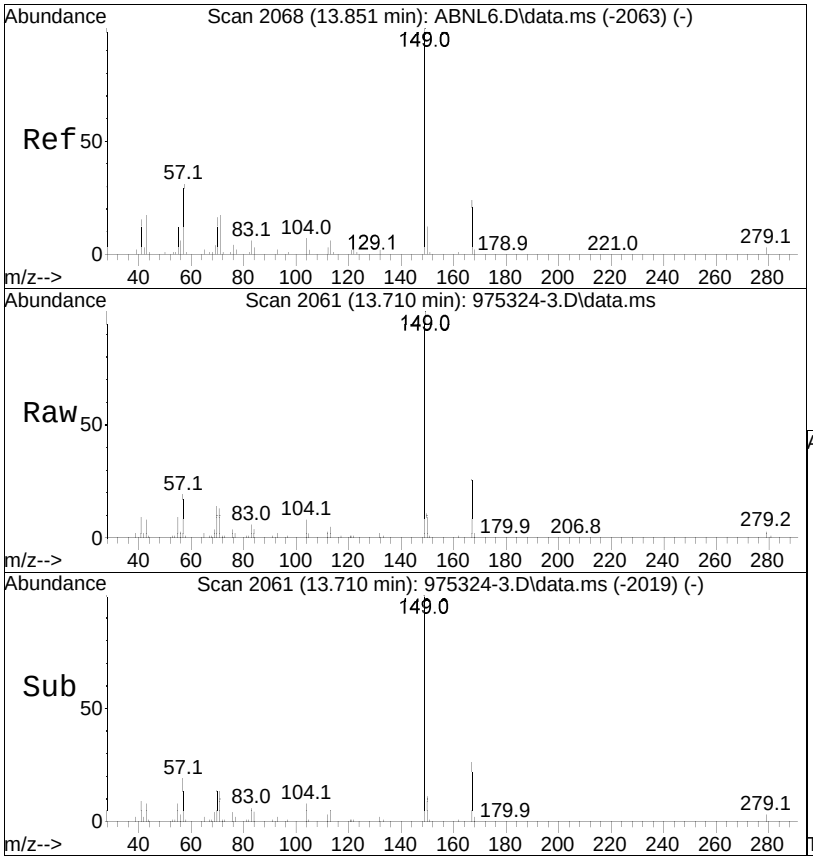


#106
3,3'-Dichlorobenzidine
Concen: 1.39 ug/ml
RT: 13.563 min Scan# 2036
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:252 Resp: 26762

Ion	Ratio	Lower	Upper
252	100		
126	10.7	14.5	21.7#
254	63.2	51.2	76.8

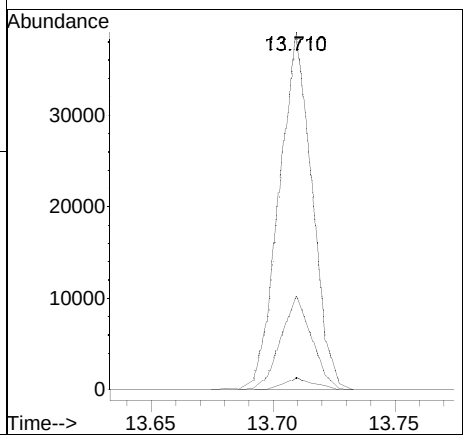


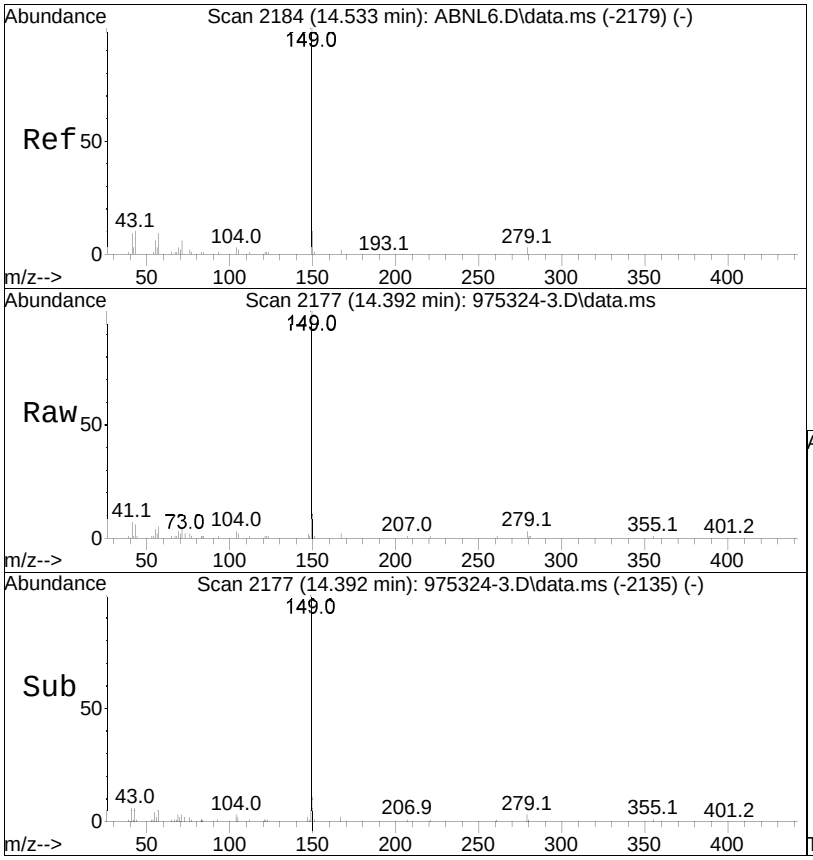


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.13 ug/ml
RT: 13.710 min Scan# 2061
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:149 Resp: 36378

Ion	Ratio	Lower	Upper
149	100		
167	24.9	22.1	33.1
279	3.2	3.0	4.4

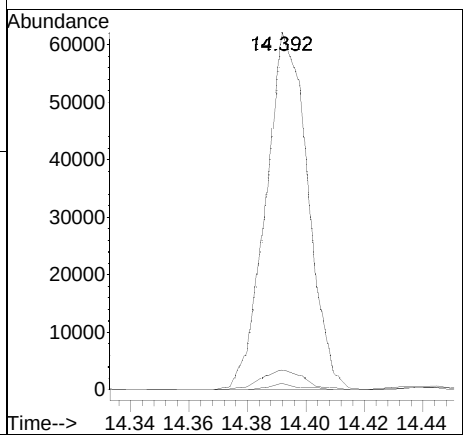




#109
Di-n-octylphthalate
Concen: 1.16 ug/ml
RT: 14.392 min Scan# 2177
Delta R.T. -0.000 min
Lab File: 975324-3.D
Acq: 24 Sep 2024 3:14 pm

Tgt Ion:149 Resp: 61385

Ion	Ratio	Lower	Upper
149	100		
43	6.0	18.8	28.2#
167	1.5	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : 975324-4.D
Acq On : 25 Sep 2024 7:12 pm
Operator : SV107:ek
Sample : WG1975324-4,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 25 19:30:21 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240925RVT\ABN0925.D
: 2 - I:\8270\SV107\240925RVT\ADP0925.D
: 3 - I:\8270\SV107\240925RVT\AP90925.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.540	152	21693	4.000	ug/ml	0.00
Standard Area 1 = 21684			Recovery =	100.04%		
27) IS2_1,4-Dichlorobenzen...	6.540	152	21693	4.000	ug/ml	0.00
Standard Area 3 = 22207			Recovery =	97.69%		
35) IS1_Naphthalene-d8	7.957	136	81625	4.000	ug/ml	0.00
Standard Area 1 = 77844			Recovery =	104.86%		
55) IS2_Naphthalene-d8	7.957	136	81625	4.000	ug/ml	0.00
Standard Area 3 = 80138			Recovery =	101.86%		
63) IS1_Acenaphthene-d10	9.716	164	49712	4.000	ug/ml	0.00
Standard Area 1 = 45627			Recovery =	108.95%		
83) IS2_Acenaphthene-d10	9.716	164	49712	4.000	ug/ml	0.00
Standard Area 3 = 45139			Recovery =	110.13%		
86) IS3_Acenaphthene-d10	9.716	164	49712	4.000	ug/ml	0.00
Standard Area 2 = 44867			Recovery =	110.80%		
88) IS1_Phenanthrene-d10	11.157	188	98390	4.000	ug/ml	0.00
Standard Area 1 = 84370			Recovery =	116.62%		
100) IS3_Phenanthrene-d10	11.157	188	98390	4.000	ug/ml	0.00
Standard Area 2 = 85159			Recovery =	115.54%		
104) IS1_Chrysene-d12	13.804	240	91340	4.000	ug/ml	0.00
Standard Area 1 = 82807			Recovery =	110.30%		
113) IS1_Perylene-d12	15.286	264	89162	4.000	ug/ml	0.00
Standard Area 1 = 83291			Recovery =	107.05%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.722	112	5654	0.965	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	48.25%		
7) Phenol-d6	6.169	99	4695	0.613	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	30.65%		
19) Nitrobenzene-d5	7.192	82	4774	0.644	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	64.40%		
46) 2-Fluorobiphenyl	9.075	172	11017	0.600	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	60.00%		
79) 2,4,6-Tribromophenol	10.486	330	2321	0.997	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	49.85%		
96) 4-Terphenyl-d14	12.739	244	14266	0.613	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	61.30%		

Data Path : I:\8270\SV107\240925RVT\
Data File : 975324-4.D
Acq On : 25 Sep 2024 7:12 pm
Operator : SV107:ek
Sample : WG1975324-4,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 25 19:30:21 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240925RVT\ABN0925.D
: 2 - I:\8270\SV107\240925RVT\ADP0925.D
: 3 - I:\8270\SV107\240925RVT\AP90925.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
6) 2-Chlorophenol	6.287	128	8955	1.276 ug/ml	96
8) Phenol	6.187	94	5832	0.687 ug/ml	98
14) Bis(2-chloroisopropyl)...	6.916	45	15795	1.801 ug/ml#	65
15) 2-Methylphenol	6.910	108	7259	1.188 ug/ml	94
17) n-Nitrosodi-n-propylamine	7.063	70	6751	1.444 ug/ml	93
18) 3-Methylphenol/4-Methy...	7.092	108	7827	1.163 ug/ml	97
20) Nitrobenzene	7.210	77	10185	1.431 ug/ml	97
21) Isophorone	7.487	82	18164	1.429 ug/ml	96
22) 2-Nitrophenol	7.569	139	4467	1.236 ug/ml#	93
23) 2,4-Dimethylphenol	7.657	107	6772	1.155 ug/ml	97
24) Bis(2-chloroethoxy)met...	7.751	93	11890	1.383 ug/ml#	97
25) 2,4-Dichlorophenol	7.828	162	8191	1.279 ug/ml	96
28) Benzaldehyde	5.981	105	7020	1.131 ug/ml	96
29) Acetophenone	7.034	105	14593	1.324 ug/ml#	83
38) 4-Chloroaniline	8.057	65	3737	1.449 ug/ml	88
40) p-Chloro-m-cresol	8.581	107	8487	1.470 ug/ml	98
43) Hexachlorocyclopentadiene	8.869	237	4763	1.103 ug/ml#	98
44) 2,4,6-Trichlorophenol	8.986	196	6724	1.408 ug/ml	97
45) 2,4,5-Trichlorophenol	9.016	196	7113	1.402 ug/ml	100
48) 2-Nitroaniline	9.281	138	6011	1.443 ug/ml	91
51) Dimethyl phthalate	9.481	163	24728	1.405 ug/ml#	99
53) 2,6-Dinitrotoluene	9.528	165	4774	1.386 ug/ml#	87
60) Caprolactam	8.369	55	1663	1.019 ug/ml#	85
61) 1,2,4,5-Tetrachloroben...	8.863	216	10333	1.140 ug/ml	98
62) Biphenyl	9.163	154	25430	1.203 ug/ml	99
64) 3-Nitroaniline	9.686	138	5313	1.336 ug/ml	98
66) 2,4-Dinitrophenol	9.786	184	1966	1.647 ug/ml	93
67) Dibenzofuran	9.916	168	30674	1.314 ug/ml	98
68) 2,4-Dinitrotoluene	9.916	165	6811	1.342 ug/ml	95
69) 4-Nitrophenol	9.869	65	2723	0.866 ug/ml#	85
72) Diethyl phthalate	10.181	149	25743	1.561 ug/ml	98
74) 4-Chlorophenyl phenyl ...	10.269	204	11785	1.330 ug/ml	94
75) 4-Nitroaniline	10.275	138	5667	1.424 ug/ml#	87
76) 4,6-Dinitro-o-cresol	10.310	198	3537	1.522 ug/ml#	71
77) NDPA/DPA	10.381	169	19957	1.378 ug/ml	96
80) 4-Bromophenyl phenyl e...	10.739	248	5973	1.249 ug/ml	95

Data Path : I:\8270\SV107\240925RVT\
Data File : 975324-4.D
Acq On : 25 Sep 2024 7:12 pm
Operator : SV107:ek
Sample : WG1975324-4,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 25 19:30:21 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240925RVT\ABN0925.D
: 2 - I:\8270\SV107\240925RVT\ADP0925.D
: 3 - I:\8270\SV107\240925RVT\AP90925.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	10.916	200	6662	1.704	ug/ml	94
91) Carbazole	11.392	167	35215	1.441	ug/ml	99
92) Di-n-butylphthalate	11.775	149	42950	1.596	ug/ml	98
97) Butyl benzyl phthalate	13.263	149	19497	1.738	ug/ml	90
106) 3,3'-Dichlorobenzidine	13.786	252	12958	1.223	ug/ml	98
108) Bis(2-ethylhexyl)phtha...	13.904	149	29096	1.734	ug/ml#	93
109) Di-n-octylphthalate	14.586	149	45985	1.786	ug/ml#	73

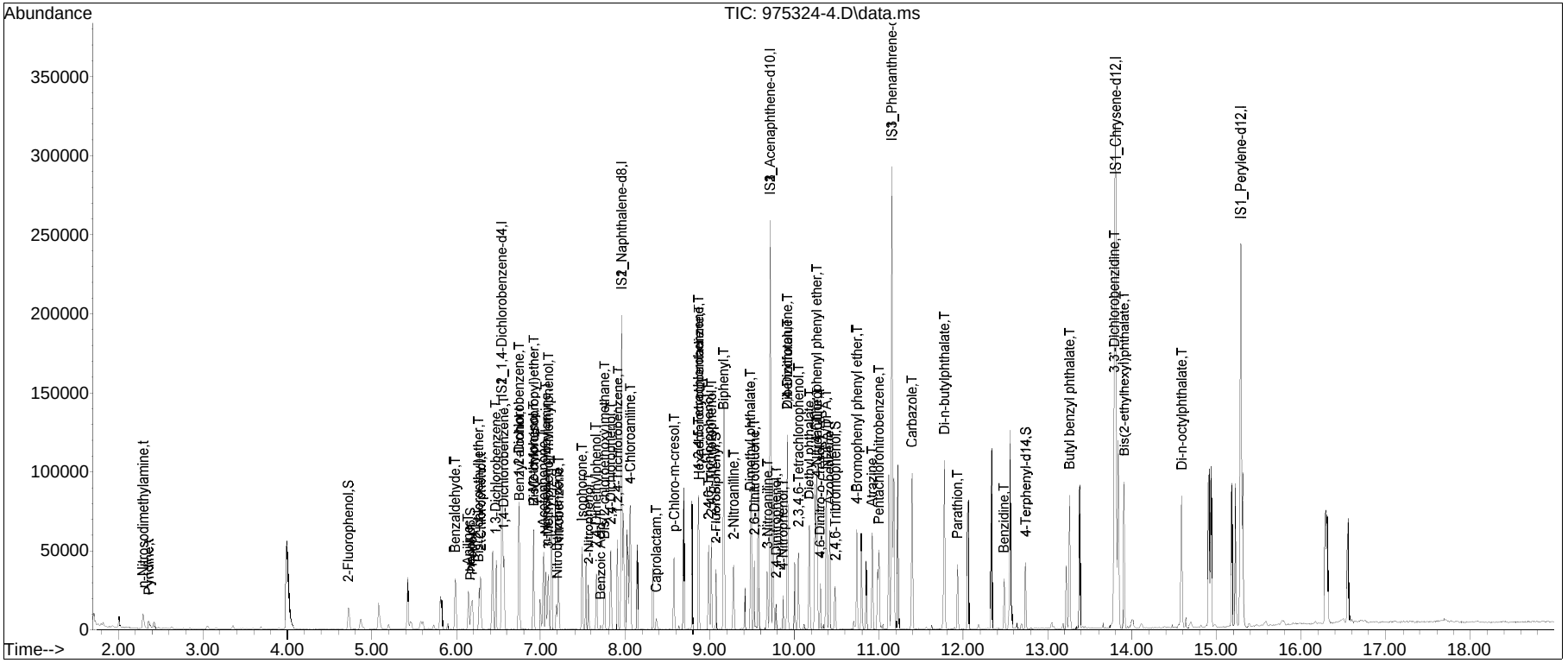
(#) = qualifier out of range (m) = manual integration (+) = signals summed

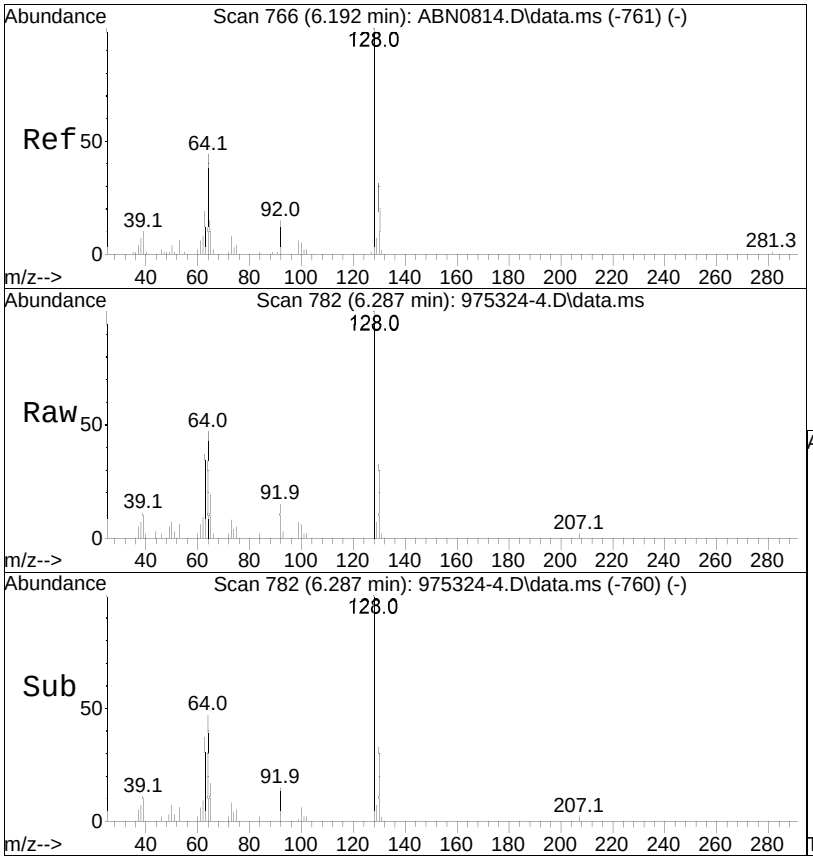
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : 975324-4.D
Acq On : 25 Sep 2024 7:12 pm
Operator : SV107:ek
Sample : WG1975324-4,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 25 19:30:21 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90925.D•

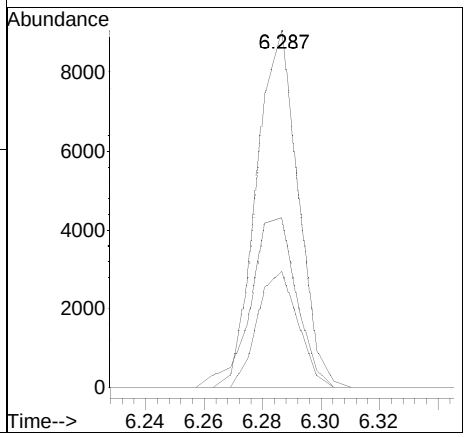


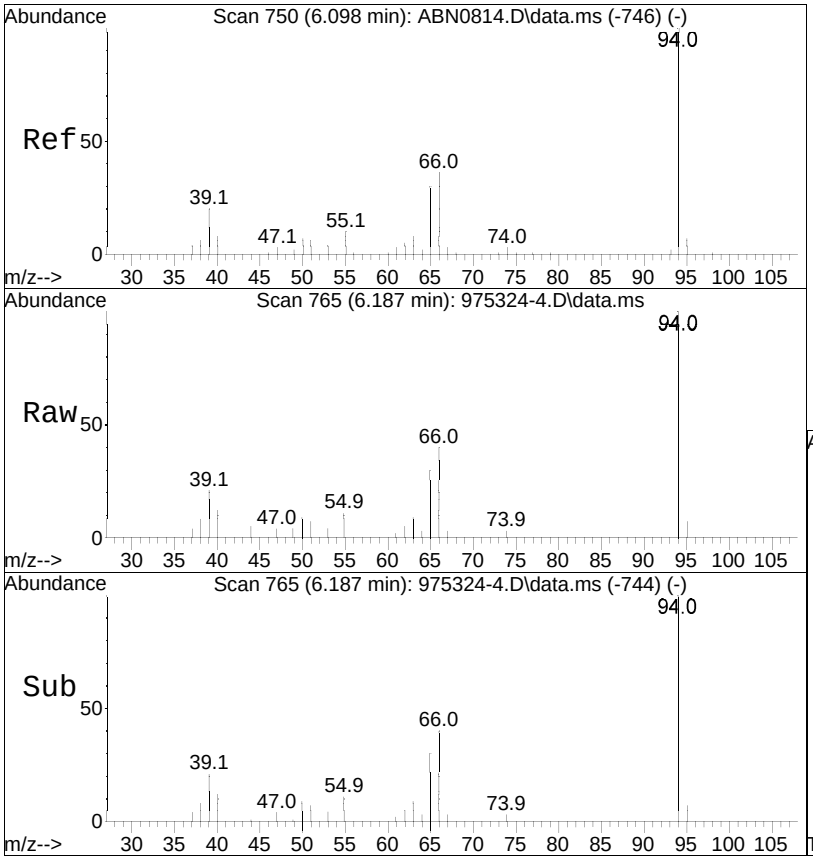


#6
2-Chlorophenol
Concen: 1.28 ug/ml
RT: 6.287 min Scan# 782
Delta R.T. 0.006 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:128 Resp: 8955

Ion	Ratio	Lower	Upper
128	100		
64	52.5	45.1	67.7
130	31.9	26.2	39.4

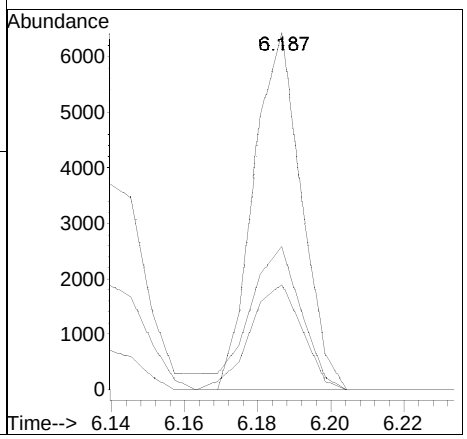


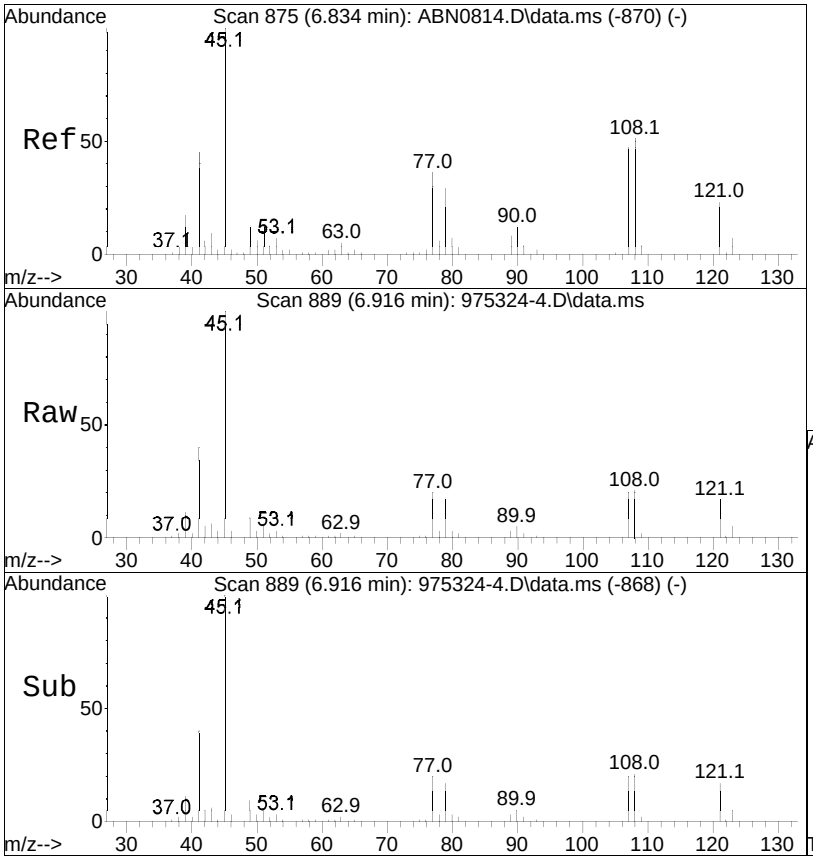


#8
Phenol
Concen: 0.69 ug/ml
RT: 6.187 min Scan# 765
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion: 94 Resp: 5832

Ion	Ratio	Lower	Upper
94	100		
65	32.3	26.0	39.0
66	43.9	33.8	50.8

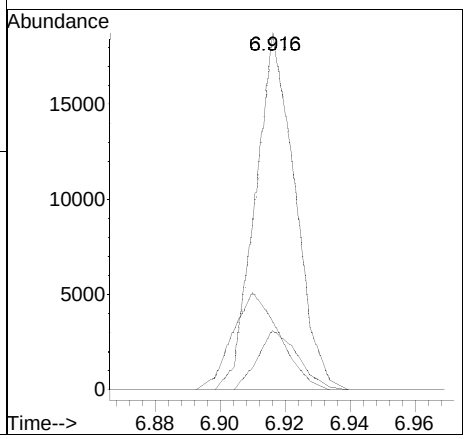


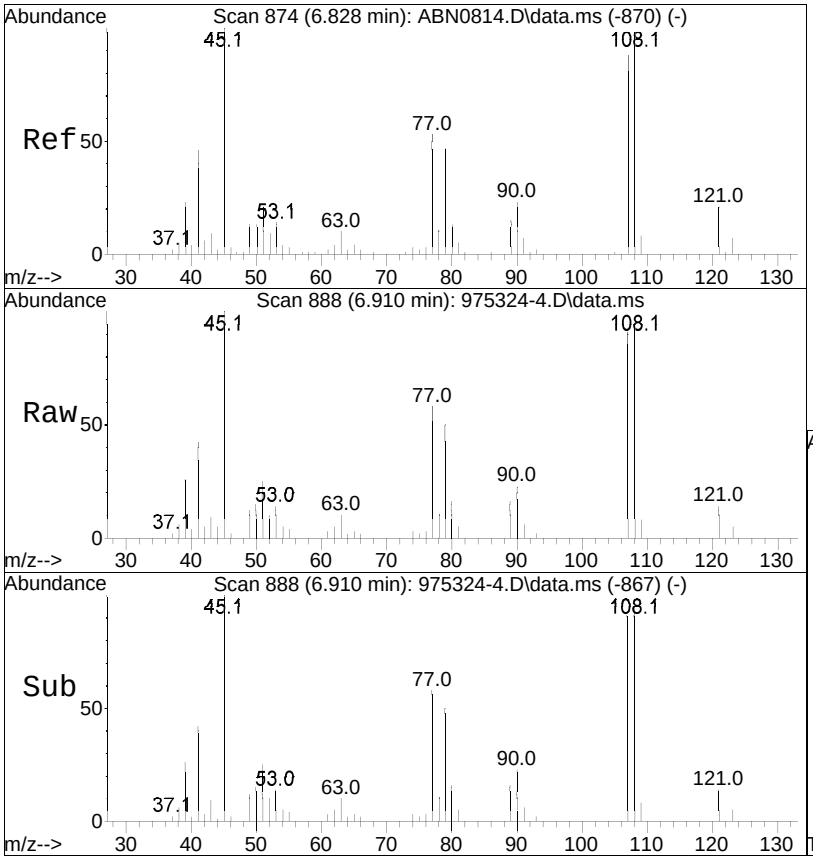


#14
Bis(2-chloroisopropyl)ether
Concen: 1.80 ug/ml
RT: 6.916 min Scan# 889
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion: 45 Resp: 15795

Ion	Ratio	Lower	Upper
45	100		
121	17.0	9.8	14.6#
77	32.7	6.1	9.1#

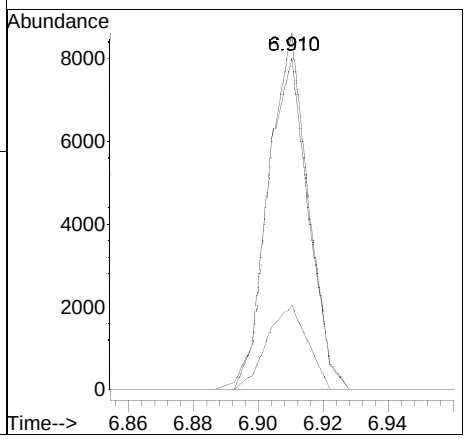


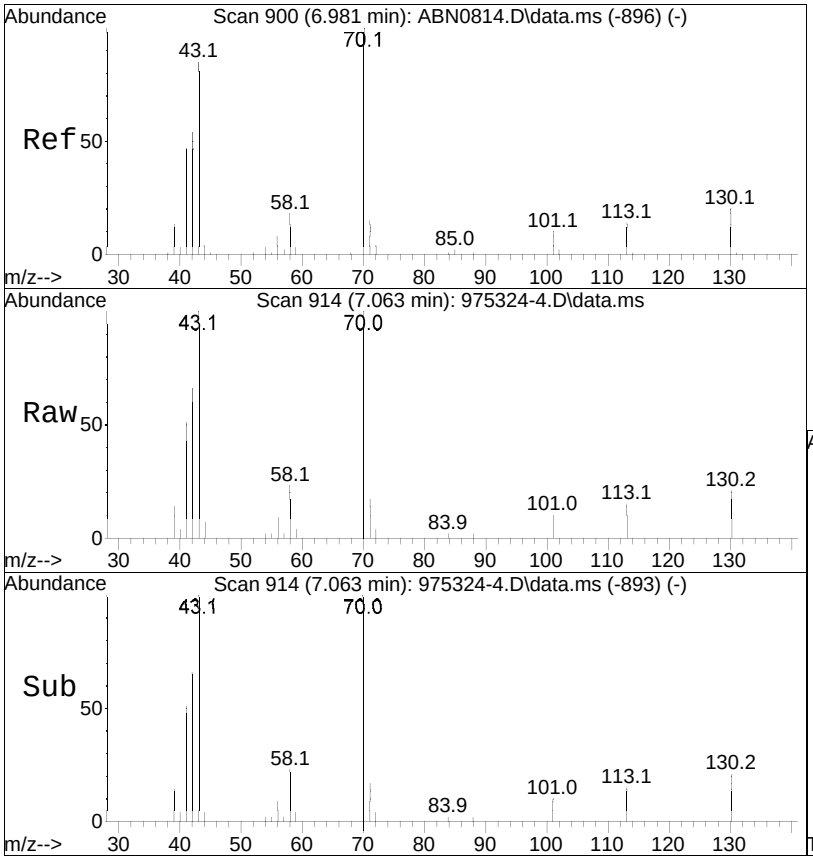


#15
2-Methylphenol
Concen: 1.19 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:108 Resp: 7259

Ion	Ratio	Lower	Upper
108	100		
107	95.5	70.7	106.1
90	24.1	18.7	28.1

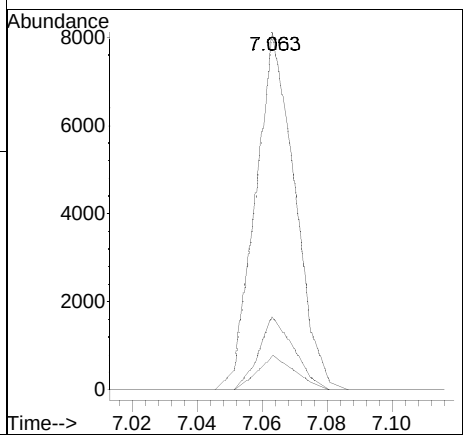


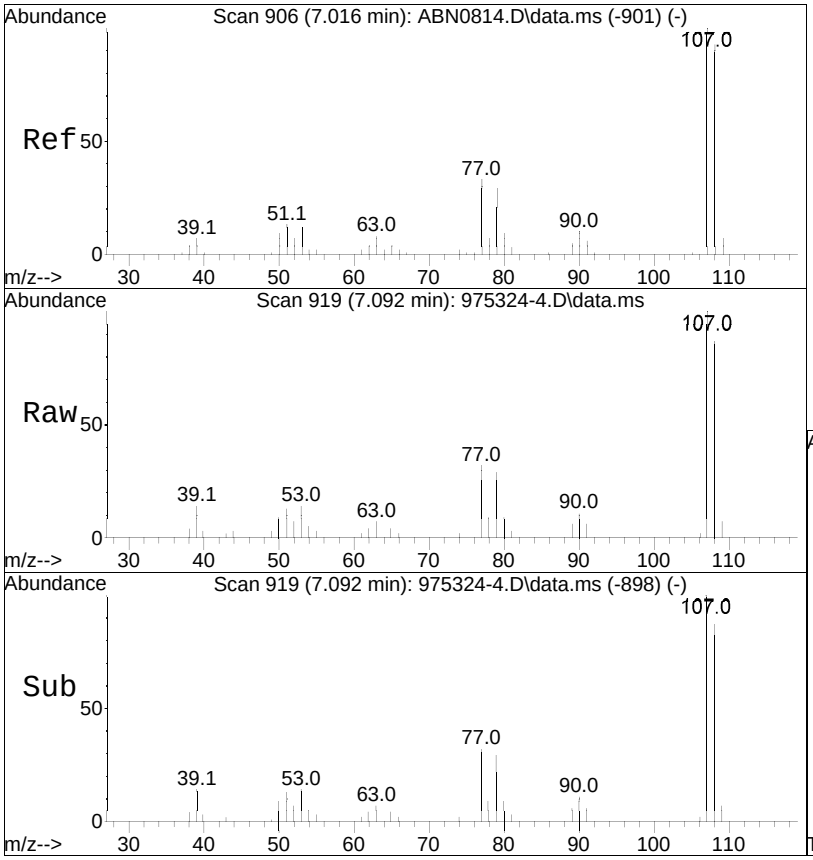


#17
n-Nitrosodi-n-propylamine
Concen: 1.44 ug/ml
RT: 7.063 min Scan# 914
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion: 70 Resp: 6751

Ion	Ratio	Lower	Upper
70	100		
130	18.4	18.2	27.4
101	9.2	7.8	11.8

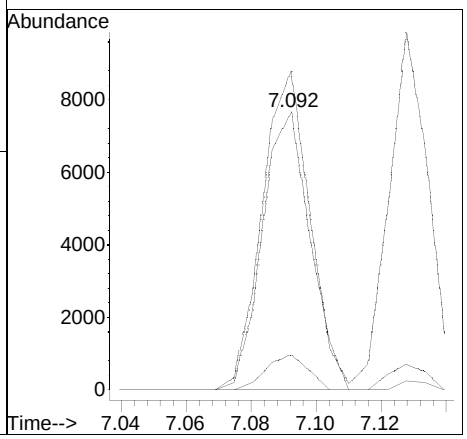


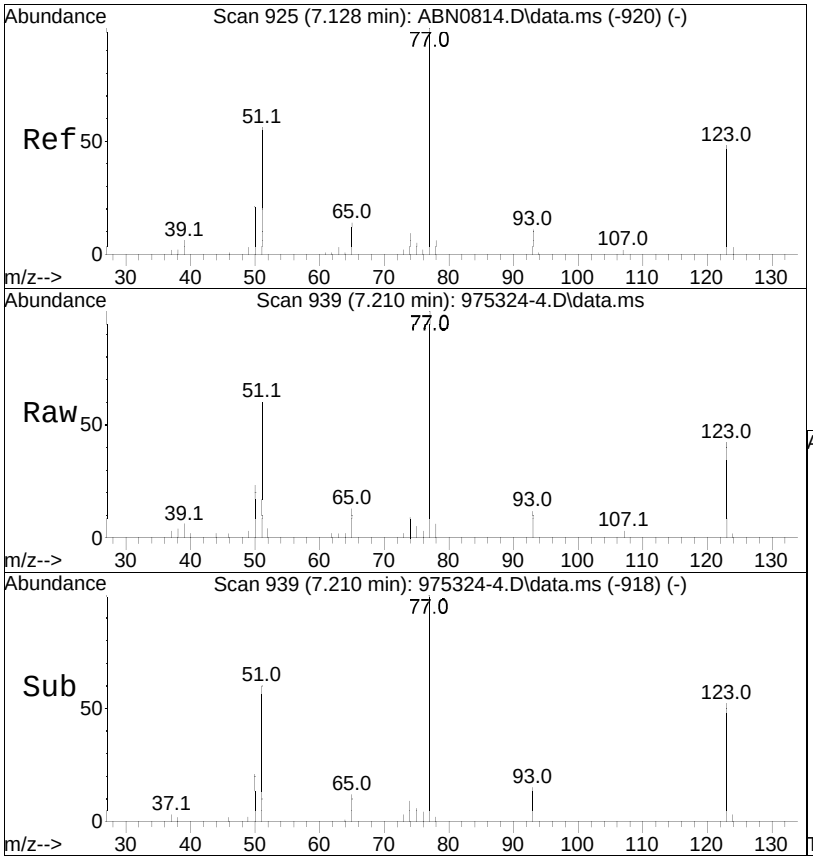


#18
3-Methylphenol/4-Methylphenol
Concen: 1.16 ug/ml
RT: 7.092 min Scan# 919
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:108 Resp: 7827

Ion	Ratio	Lower	Upper
108	100		
107	114.4	88.6	132.8
90	11.0	8.8	13.2

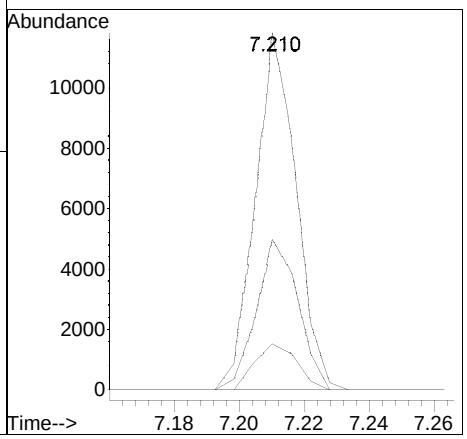


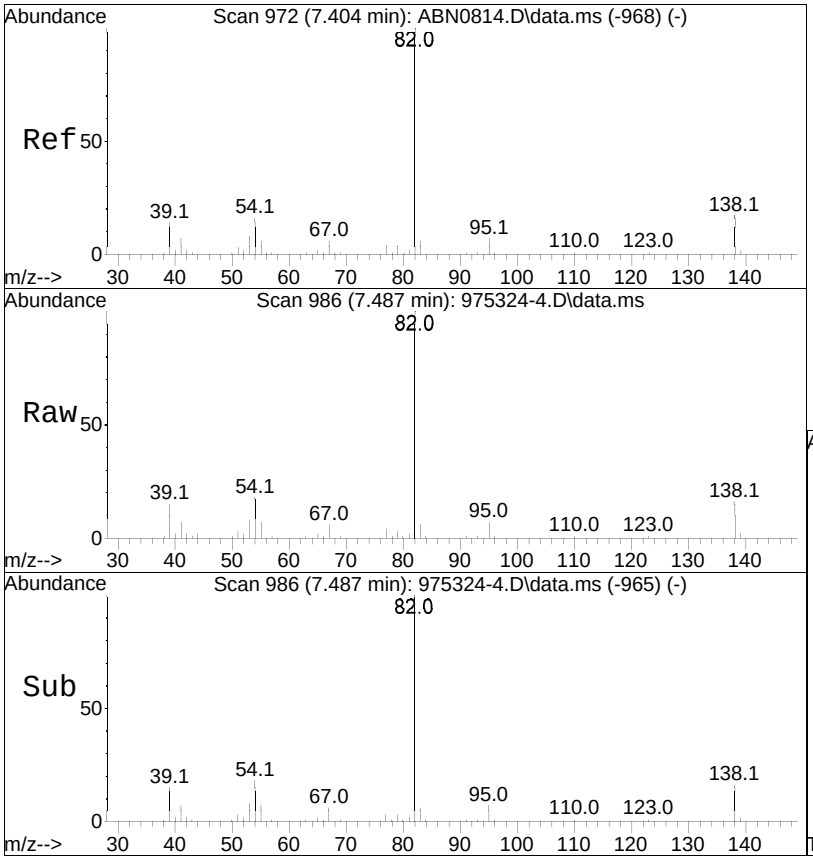


#20
Nitrobenzene
Concen: 1.43 ug/ml
RT: 7.210 min Scan# 939
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion: 77 Resp: 10185

Ion	Ratio	Lower	Upper
77	100		
123	43.3	36.3	54.5
65	13.4	11.6	17.4

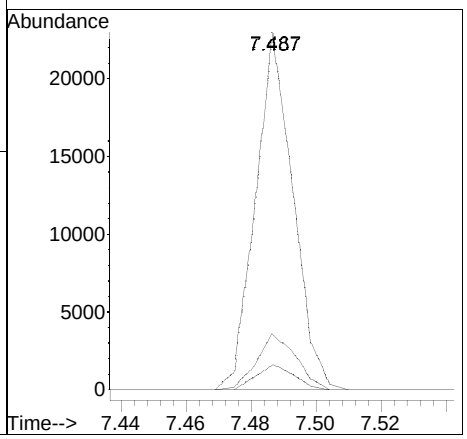


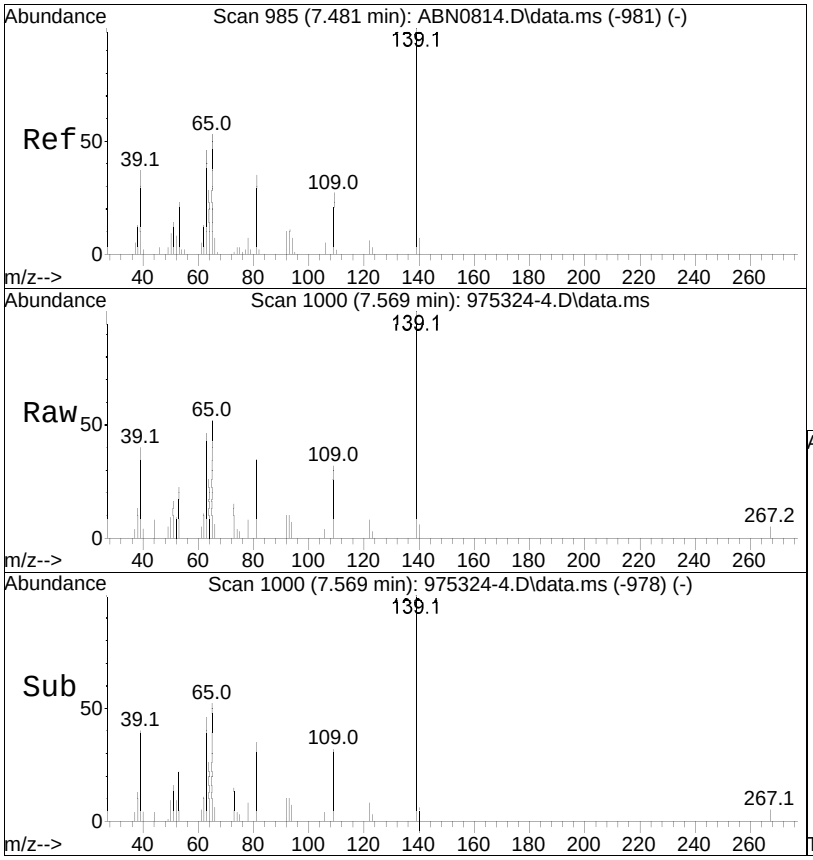


#21
Isophorone
Concen: 1.43 ug/ml
RT: 7.487 min Scan# 986
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion: 82 Resp: 18164

Ion	Ratio	Lower	Upper
82	100		
138	16.5	14.7	22.1
95	7.1	5.2	7.8

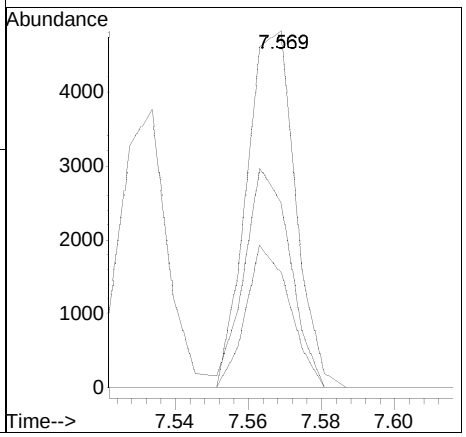


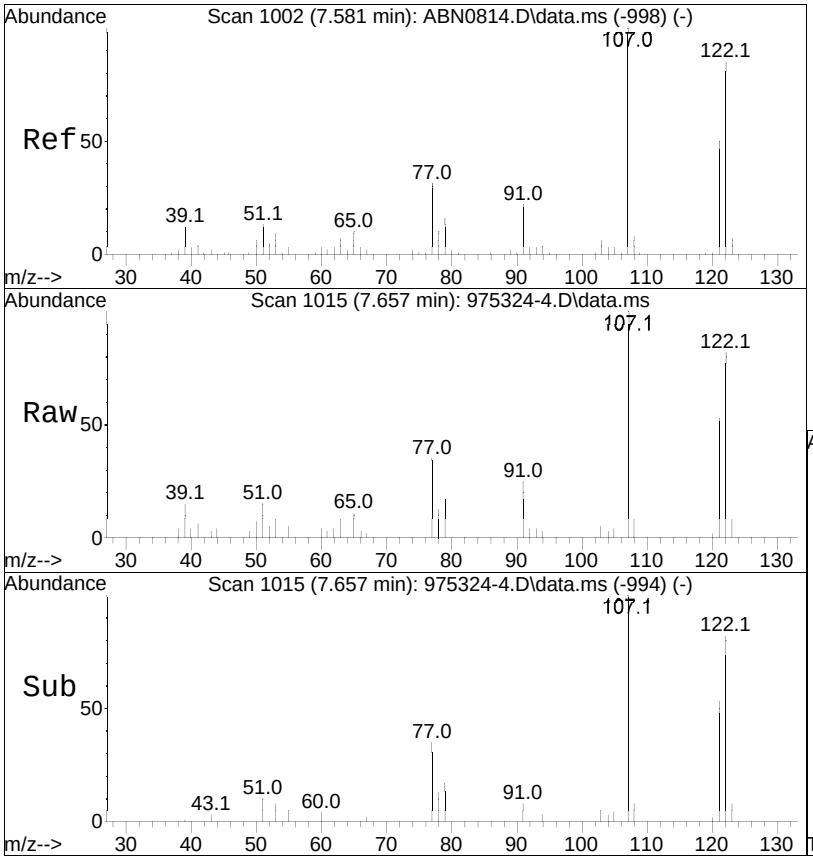


#22
2-Nitrophenol
Concen: 1.24 ug/ml
RT: 7.569 min Scan# 1000
Delta R.T. 0.006 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:139 Resp: 4467

Ion	Ratio	Lower	Upper
139	100		
109	35.9	19.4	29.0#
65	57.2	46.1	69.1

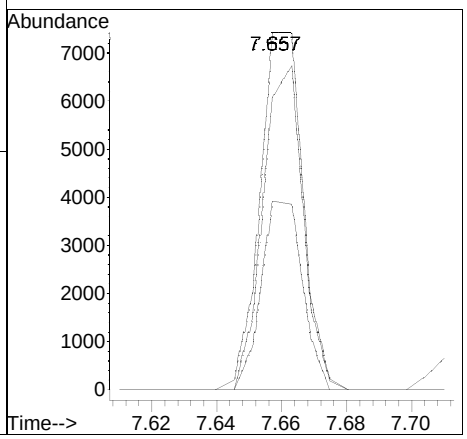


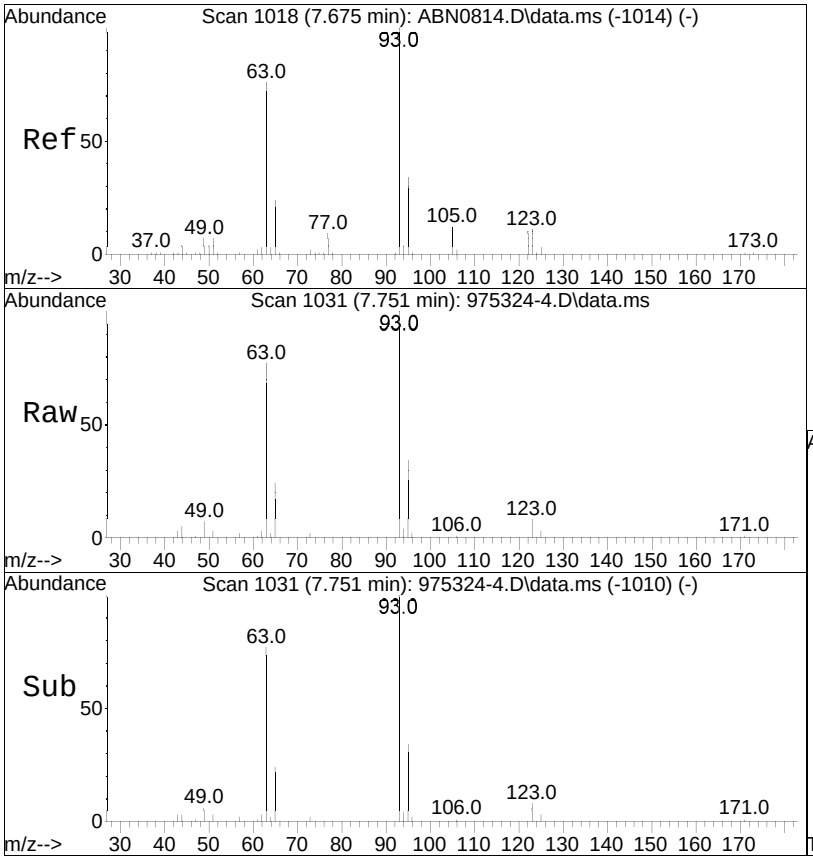


#23
2,4-Dimethylphenol
Concen: 1.15 ug/ml
RT: 7.657 min Scan# 1015
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:107 Resp: 6772

Ion	Ratio	Lower	Upper
107	100		
121	50.9	40.0	60.0
122	84.6	70.2	105.4

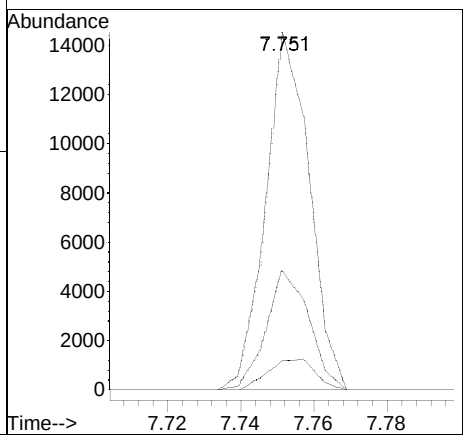


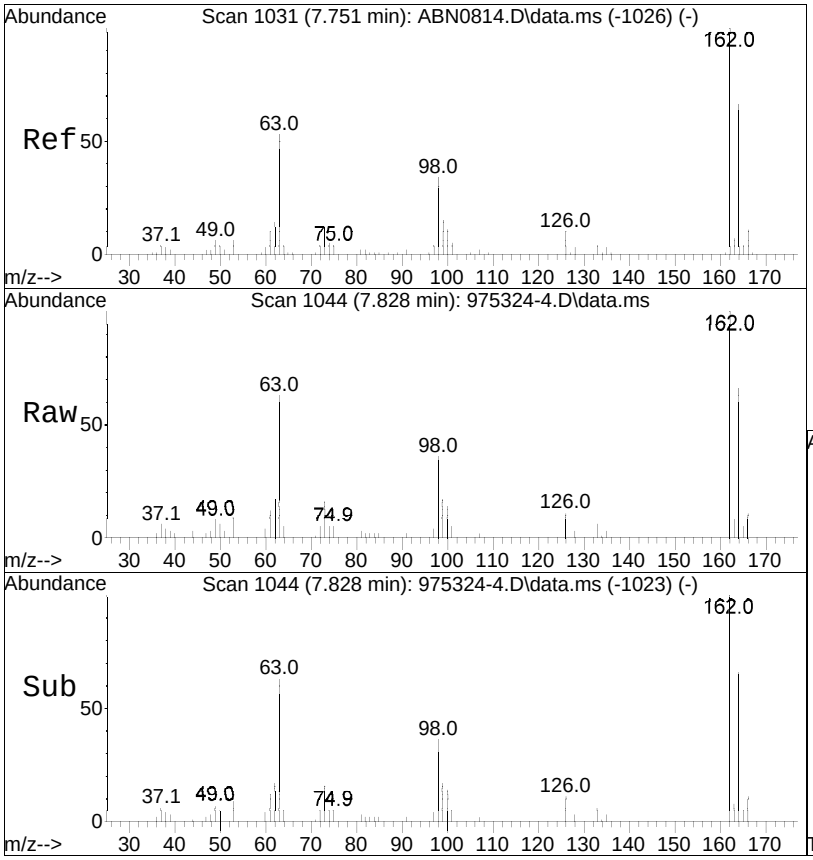


#24
Bis(2-chloroethoxy)methane
Concen: 1.38 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion: 93 Resp: 11890

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.8	38.8
123	9.5	10.1	15.1#

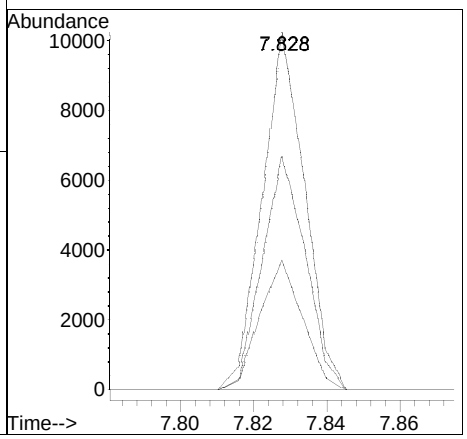


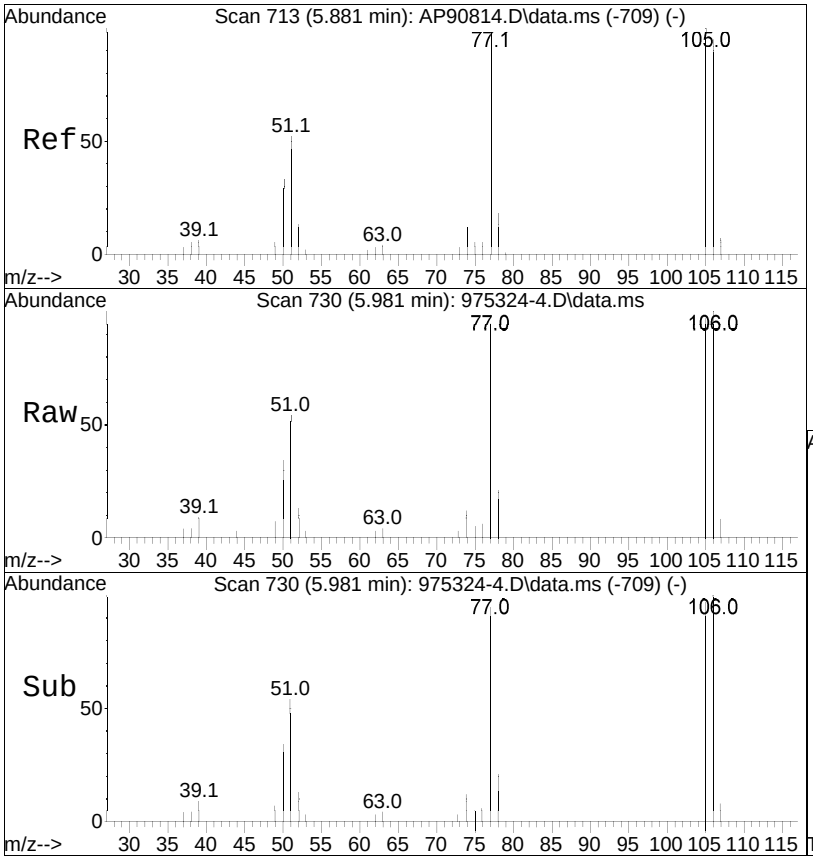


#25
2,4-Dichlorophenol
Concen: 1.28 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:162 Resp: 8191

Ion	Ratio	Lower	Upper
162	100		
164	66.6	51.0	76.4
98	36.7	32.2	48.2

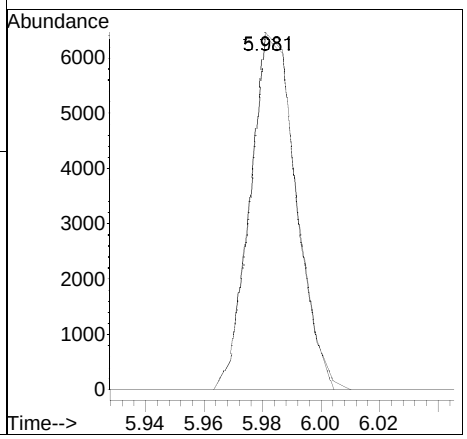


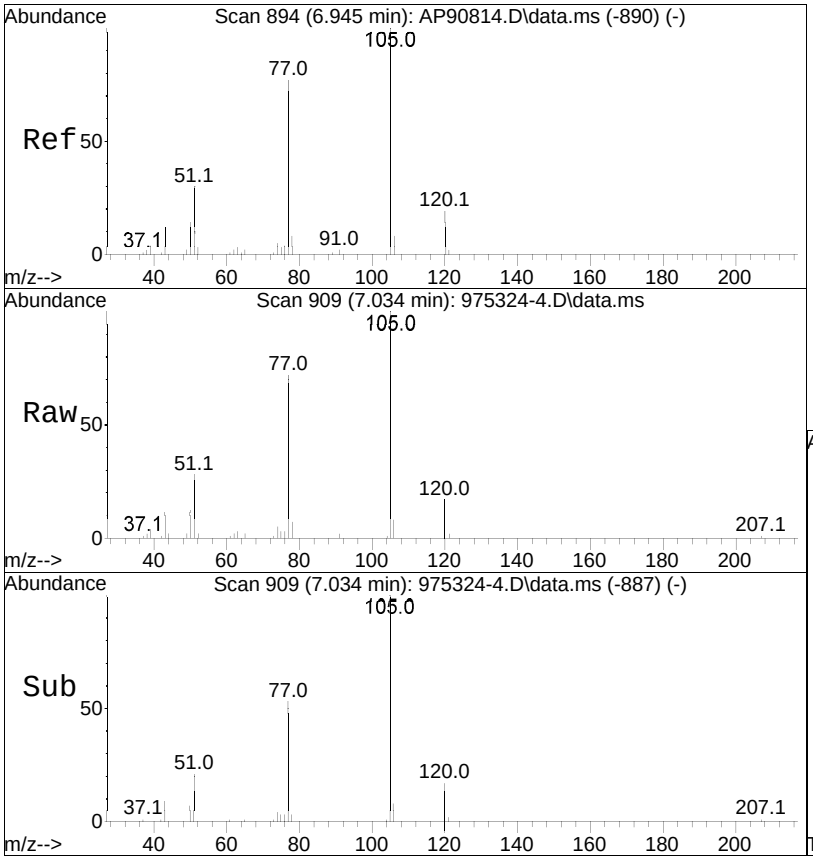


#28
Benzaldehyde
Concen: 1.13 ug/ml
RT: 5.981 min Scan# 730
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:105 Resp: 7020

Ion	Ratio	Lower	Upper
105	100		
77	98.7	82.2	123.4

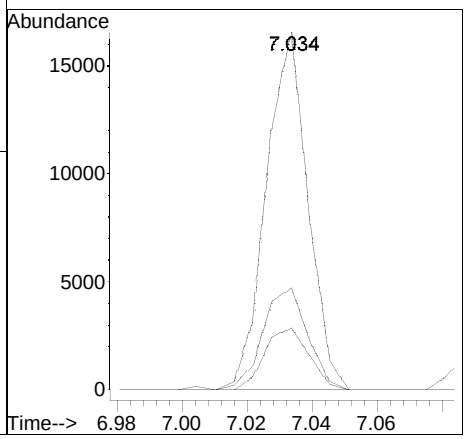


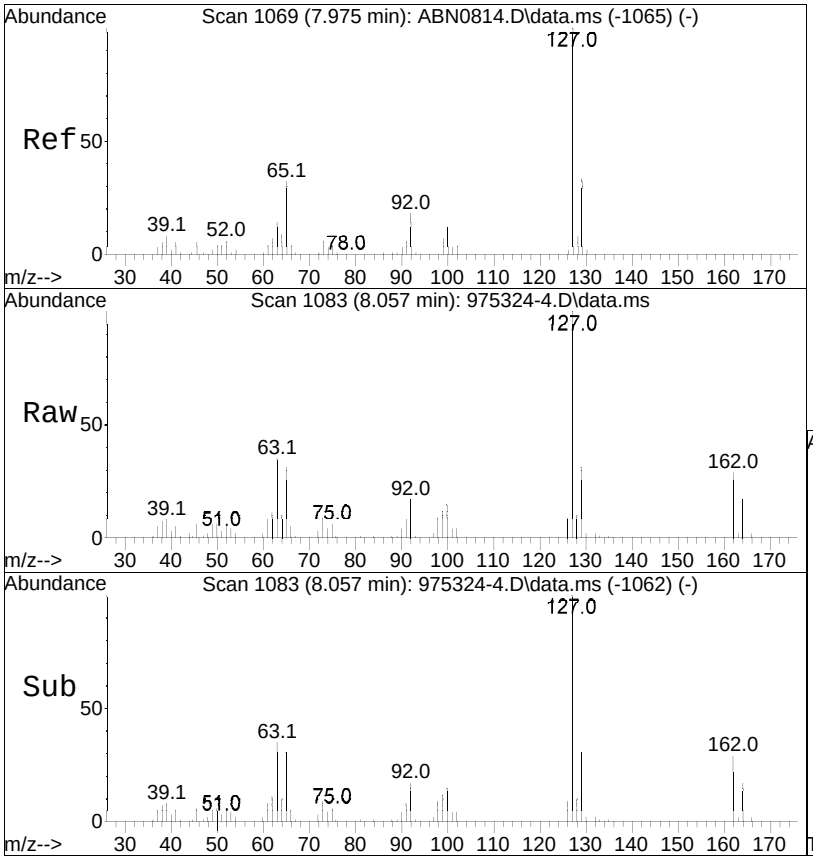


#29
Acetophenone
Concen: 1.32 ug/ml
RT: 7.034 min Scan# 909
Delta R.T. 0.006 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:105 Resp: 14593

Ion	Ratio	Lower	Upper
105	100		
120	18.6	20.5	30.7#
51	31.3	34.9	52.3#

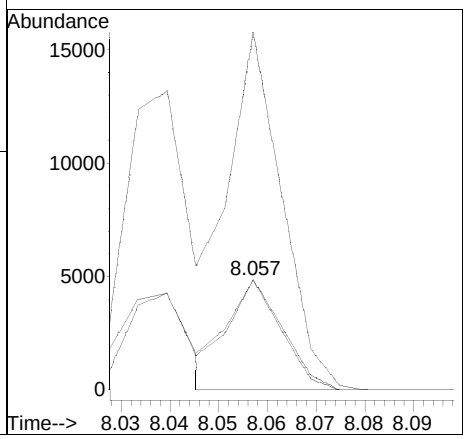


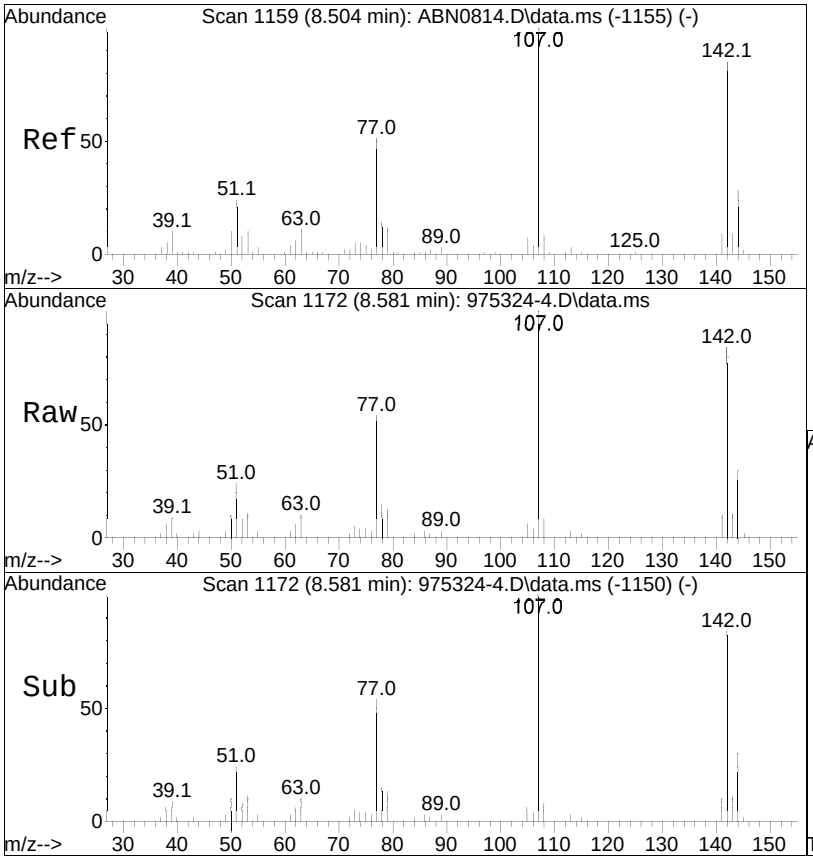


#38
4-Chloroaniline
Concen: 1.45 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion: 65 Resp: 3737

Ion	Ratio	Lower	Upper
65	100		
127	323.6	237.6	356.4
129	101.4	76.3	114.5

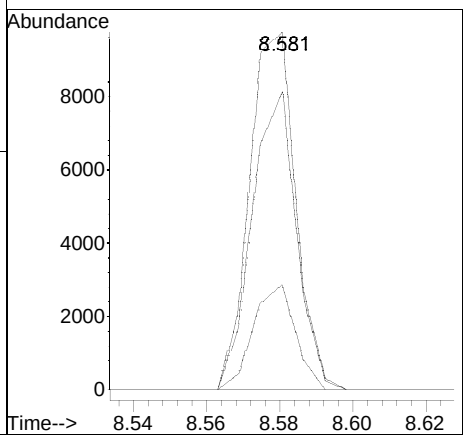


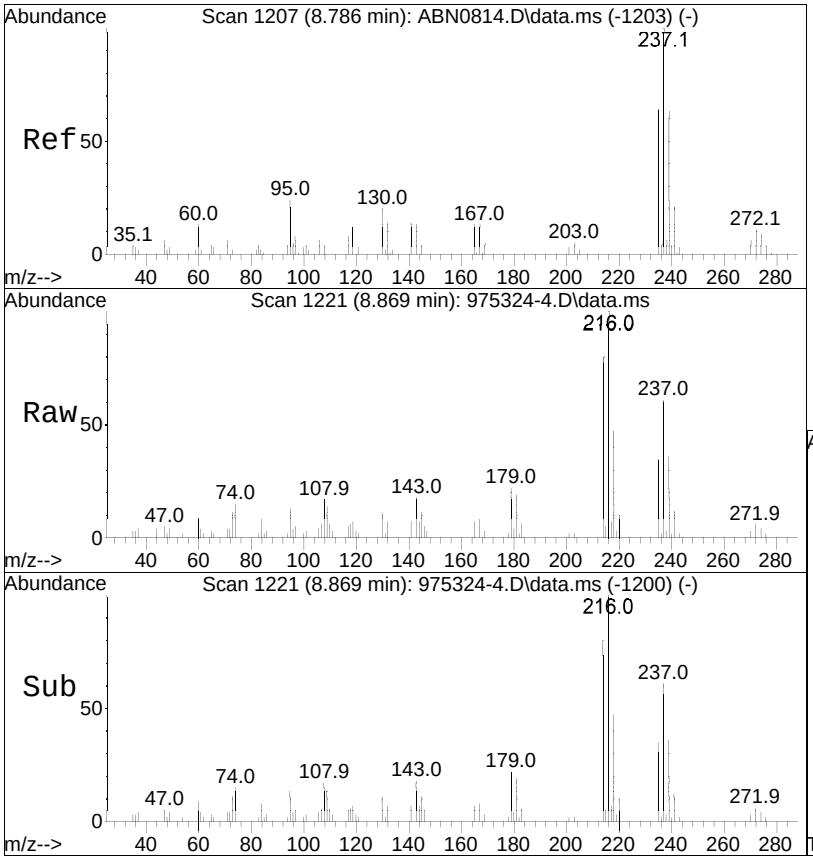


#40
p-Chloro-m-cresol
Concen: 1.47 ug/ml
RT: 8.581 min Scan# 1172
Delta R.T. 0.006 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:107 Resp: 8487

Ion	Ratio	Lower	Upper
107	100		
144	26.9	20.9	31.3
142	80.2	66.1	99.1

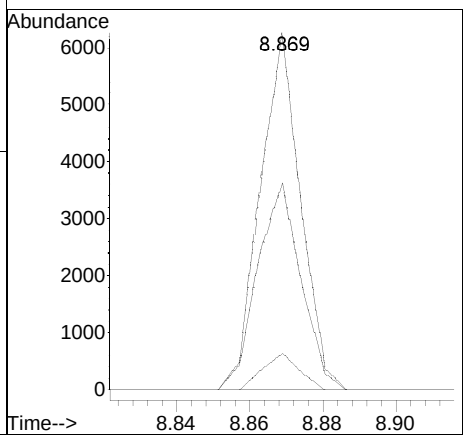


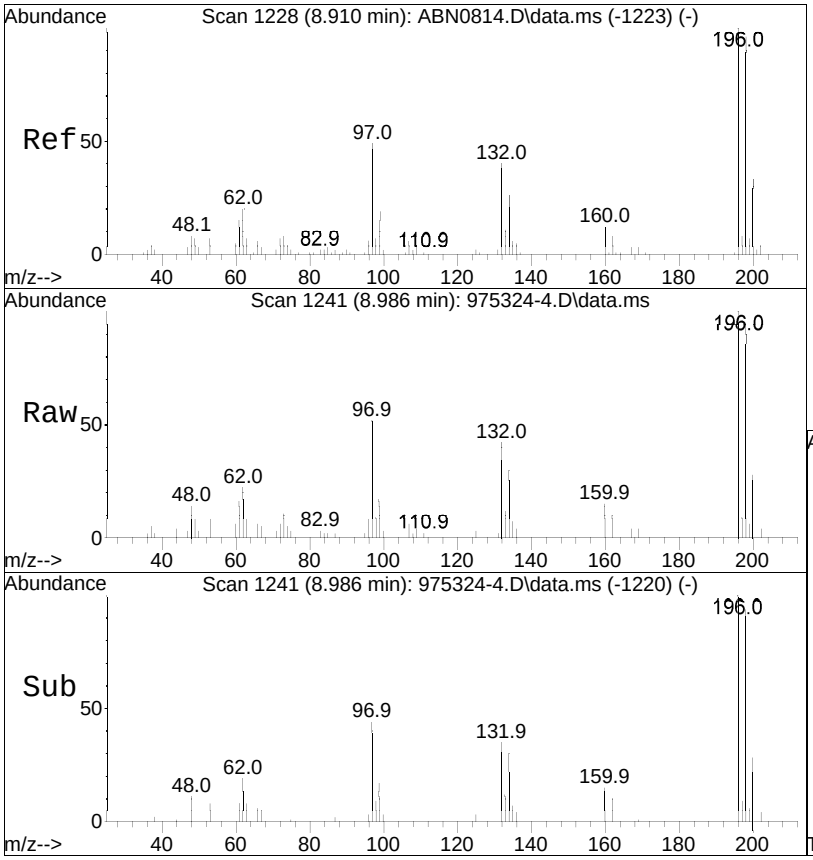


#43
Hexachlorocyclopentadiene
Concen: 1.10 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:237 Resp: 4763

Ion	Ratio	Lower	Upper
237	100		
235	62.6	49.7	74.5
272	9.3	9.8	14.6#

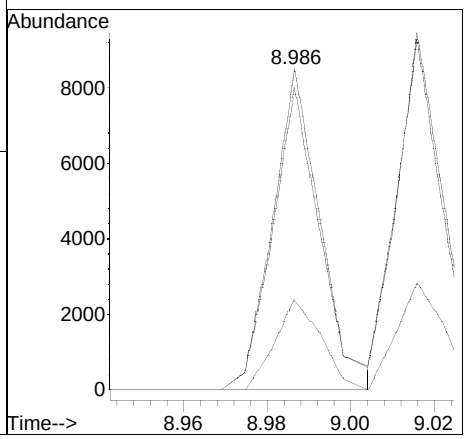


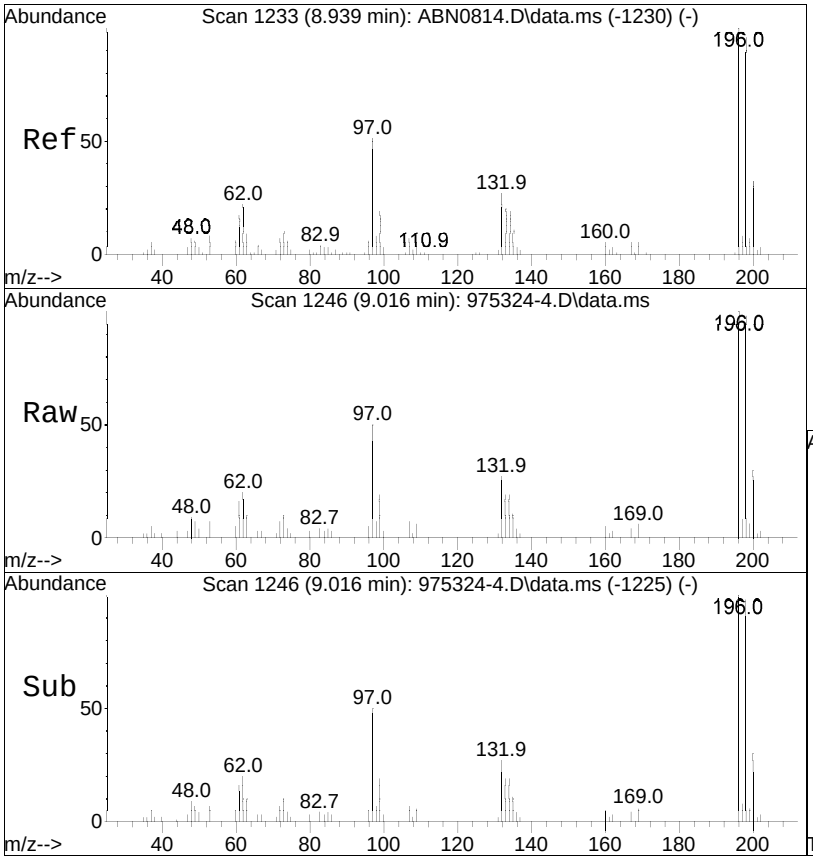


#44
2,4,6-Trichlorophenol
Concen: 1.41 ug/ml
RT: 8.986 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:196 Resp: 6724

Ion	Ratio	Lower	Upper
196	100		
198	94.5	77.5	116.3
200	27.1	23.8	35.6

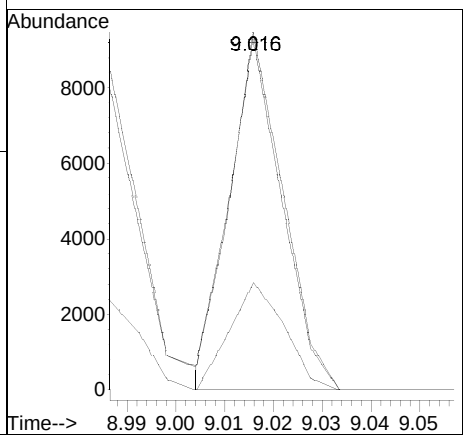


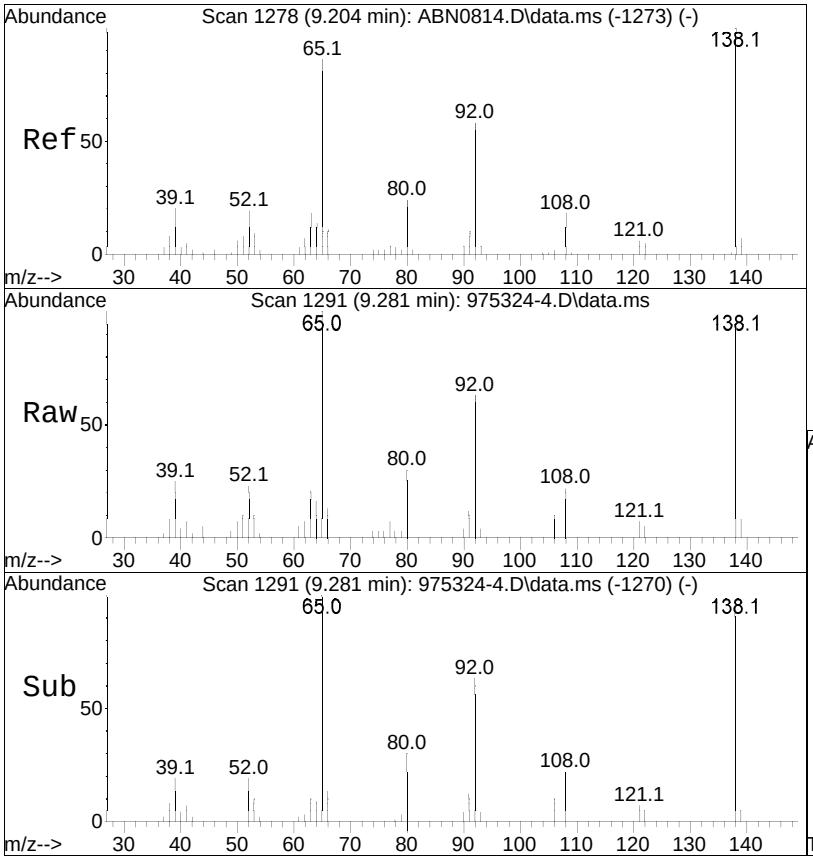


#45
2,4,5-Trichlorophenol
Concen: 1.40 ug/ml
RT: 9.016 min Scan# 1246
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:196 Resp: 7113

Ion	Ratio	Lower	Upper
196	100		
200	31.1	25.4	38.0
198	97.3	78.0	117.0

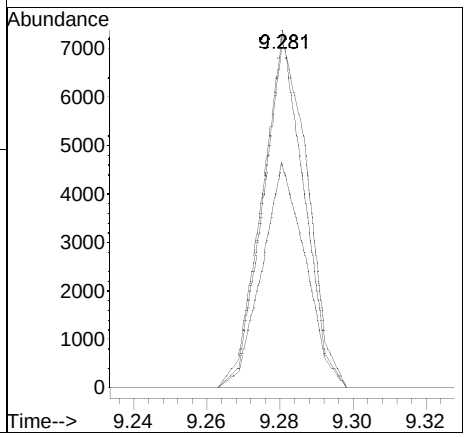


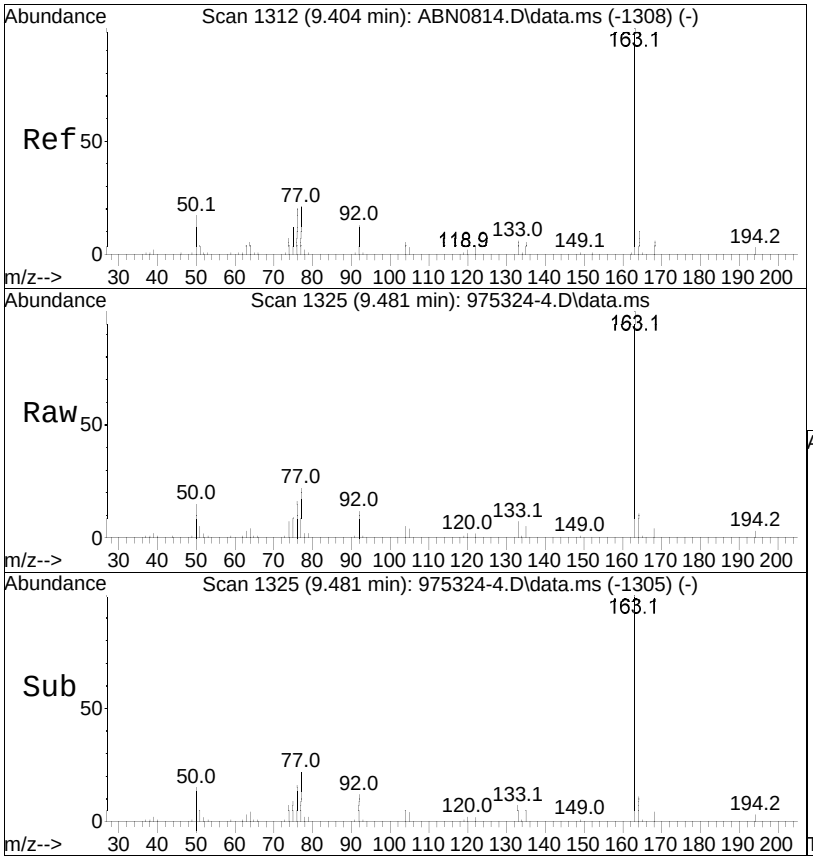


#48
2-Nitroaniline
Concen: 1.44 ug/ml
RT: 9.281 min Scan# 1291
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:138 Resp: 6011

Ion	Ratio	Lower	Upper
138	100		
92	63.1	53.5	80.3
65	96.3	86.3	129.5

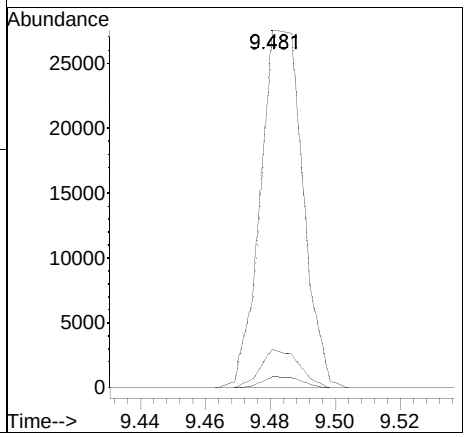


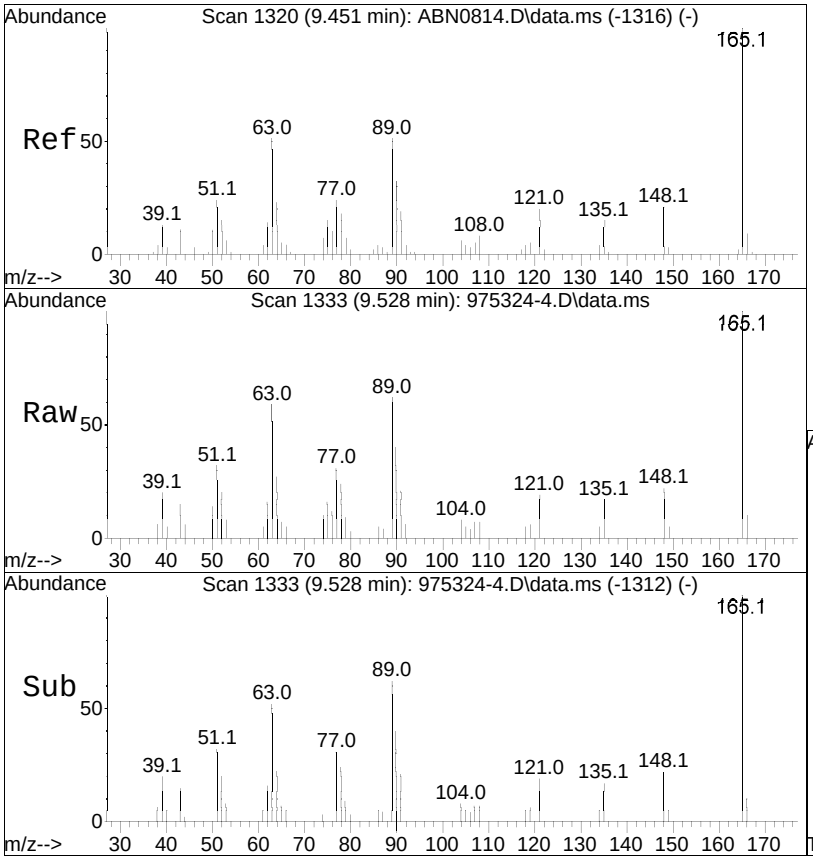


#51
Dimethyl phthalate
Concen: 1.40 ug/ml
RT: 9.481 min Scan# 1325
Delta R.T. -0.006 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:163 Resp: 24728

Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	9.9	7.9	11.9

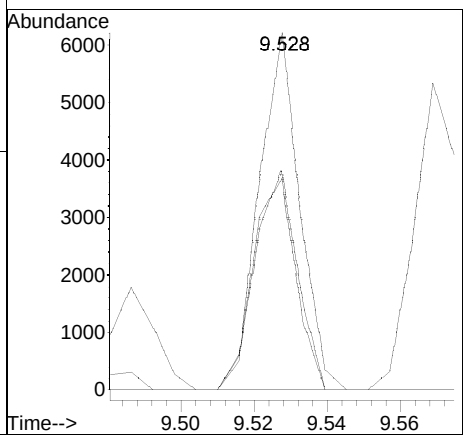


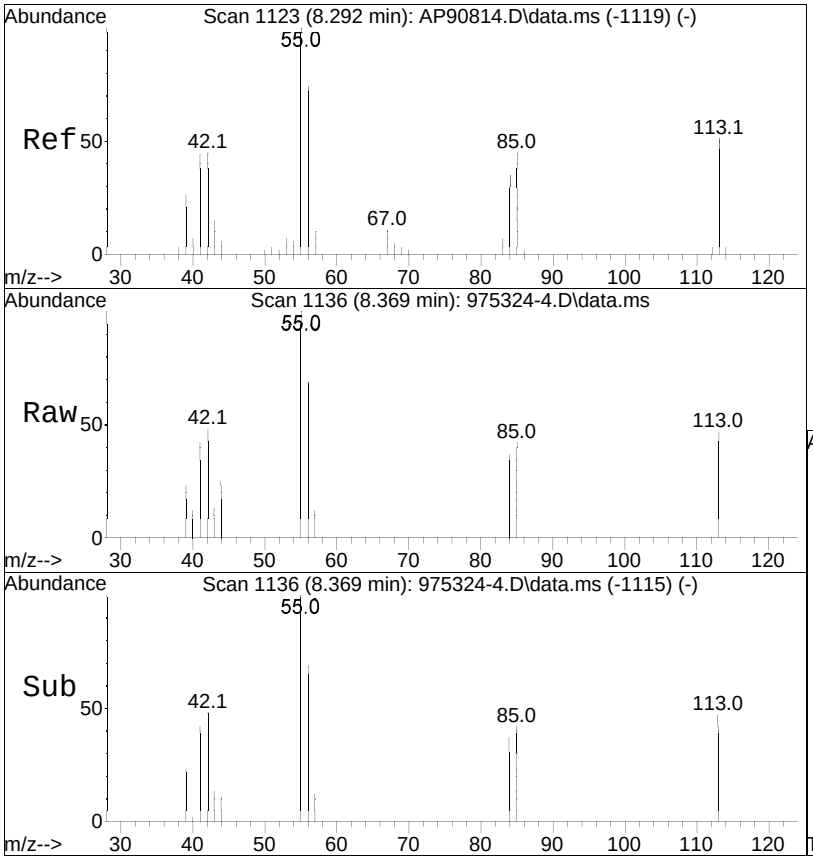


#53
2,6-Dinitrotoluene
Concen: 1.39 ug/ml
RT: 9.528 min Scan# 1333
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:165 Resp: 4774

Ion	Ratio	Lower	Upper
165	100		
89	64.4	54.2	81.2
63	62.7	64.2	96.2#

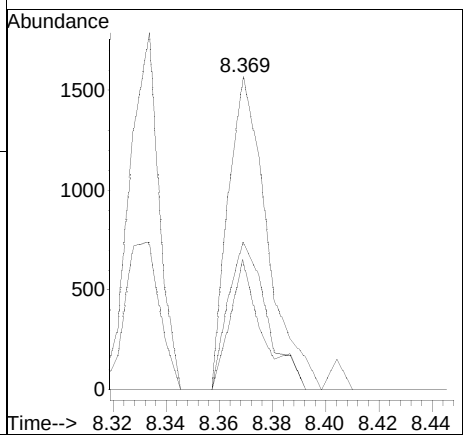


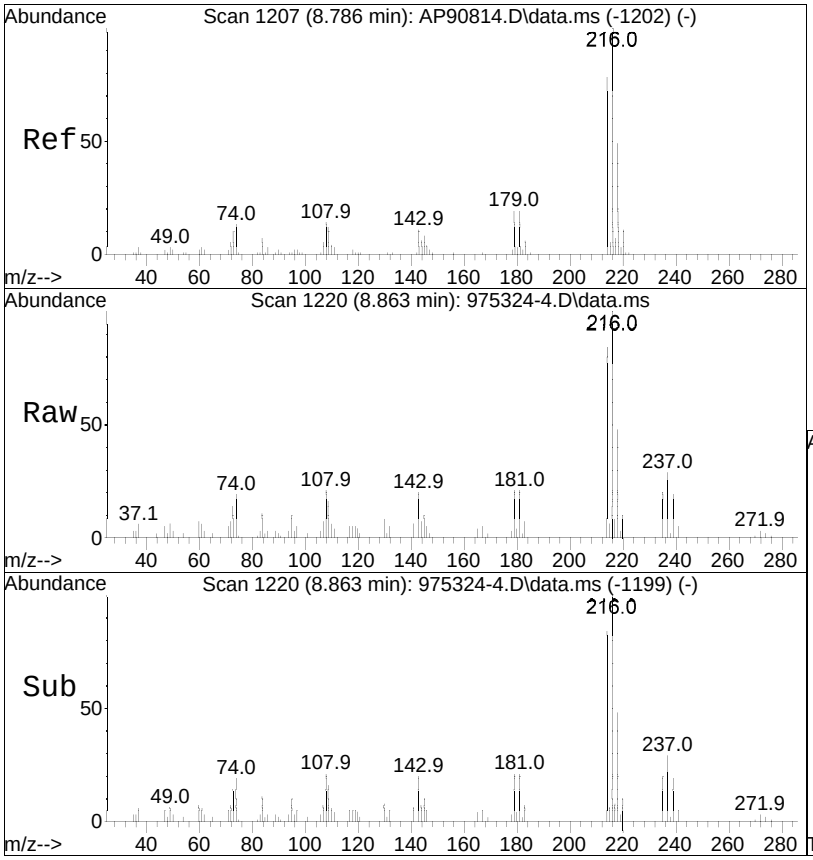


#60
Caprolactam
Concen: 1.02 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion: 55 Resp: 1663

Ion	Ratio	Lower	Upper
55	100		
85	33.9	19.8	29.6#
113	45.0	29.6	44.4#

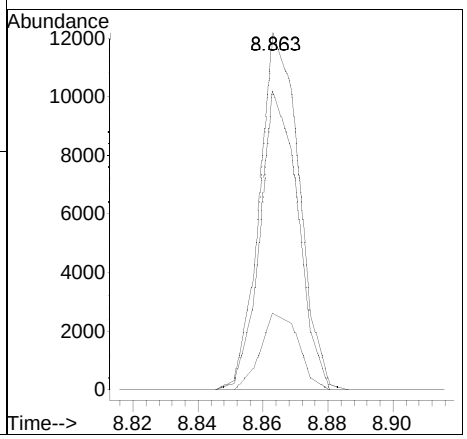


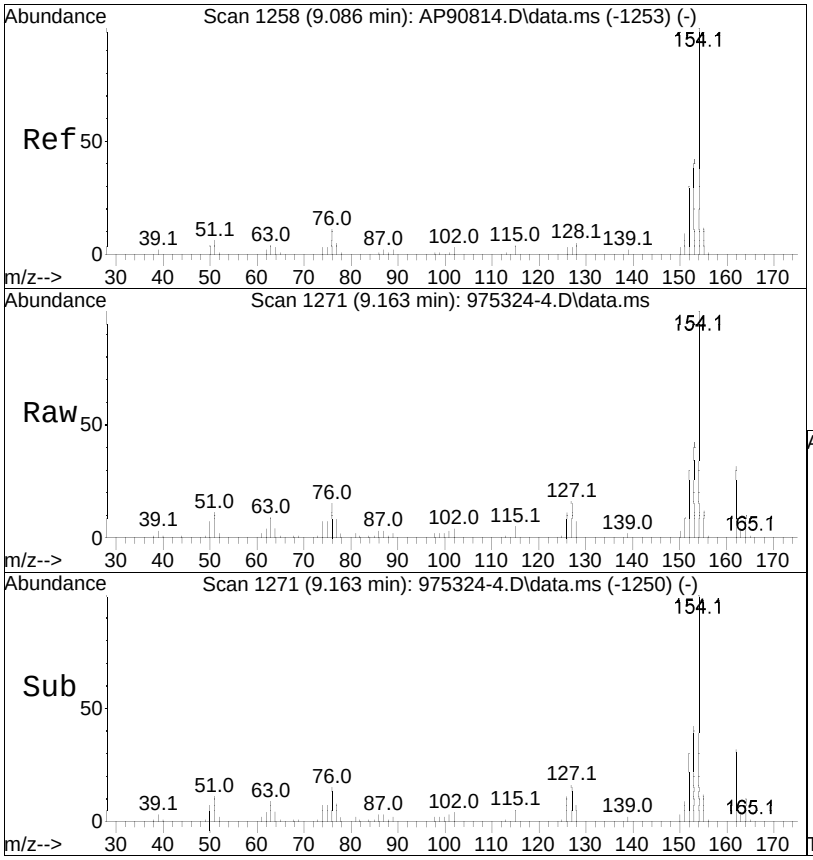


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.14 ug/ml
RT: 8.863 min Scan# 1220
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:216 Resp: 10333

Ion	Ratio	Lower	Upper
216	100		
214	79.9	63.7	95.5
179	20.4	19.0	28.6

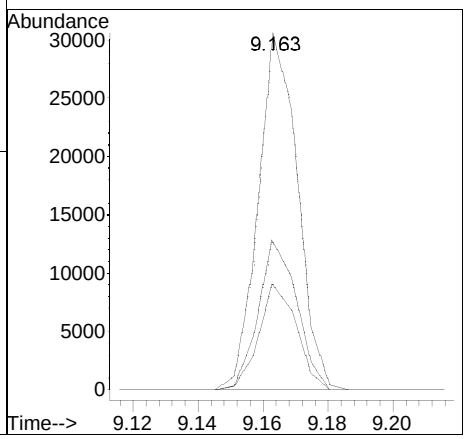


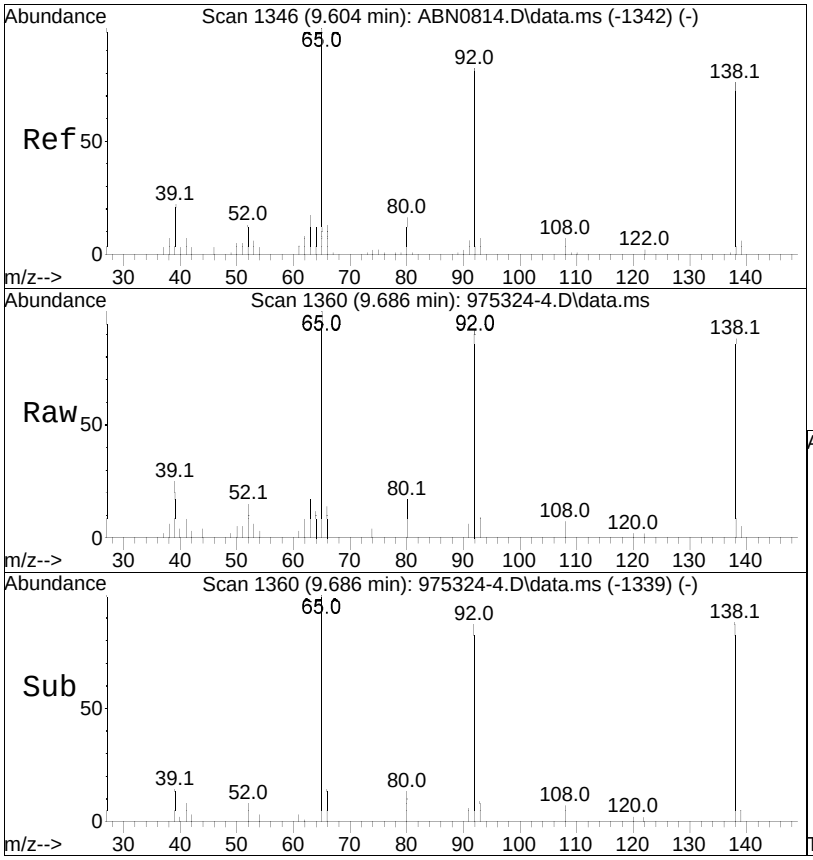


#62
Biphenyl
Concen: 1.20 ug/ml
RT: 9.163 min Scan# 1271
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:154 Resp: 25430

Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.3	48.5
152	28.7	22.5	33.7

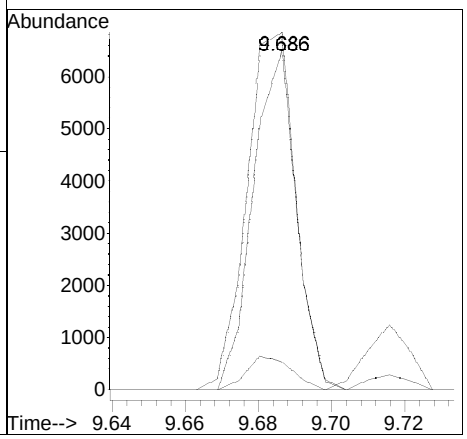


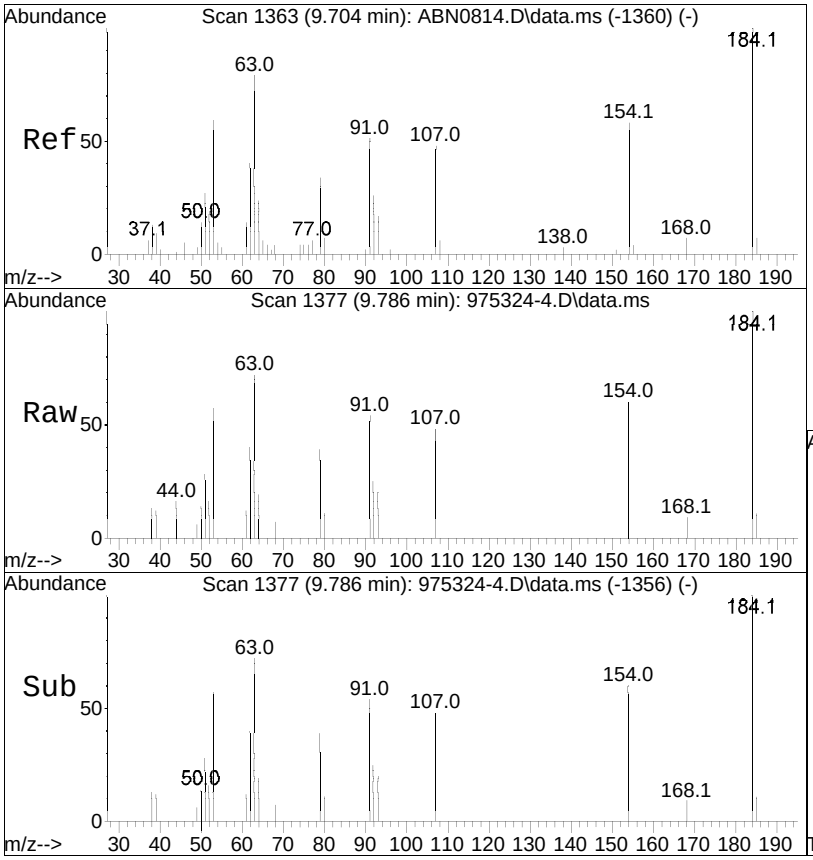


#64
3-Nitroaniline
Concen: 1.34 ug/ml
RT: 9.686 min Scan# 1360
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:138 Resp: 5313

Ion	Ratio	Lower	Upper
138	100		
92	118.7	93.4	140.2
108	10.4	9.5	14.3

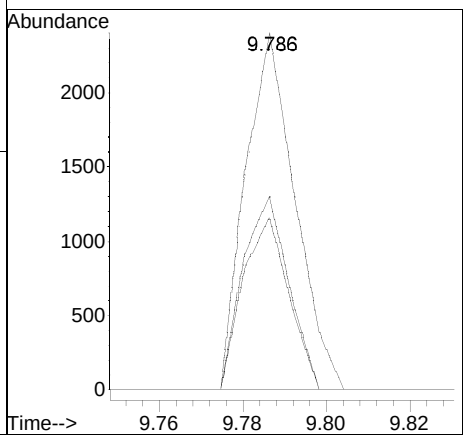


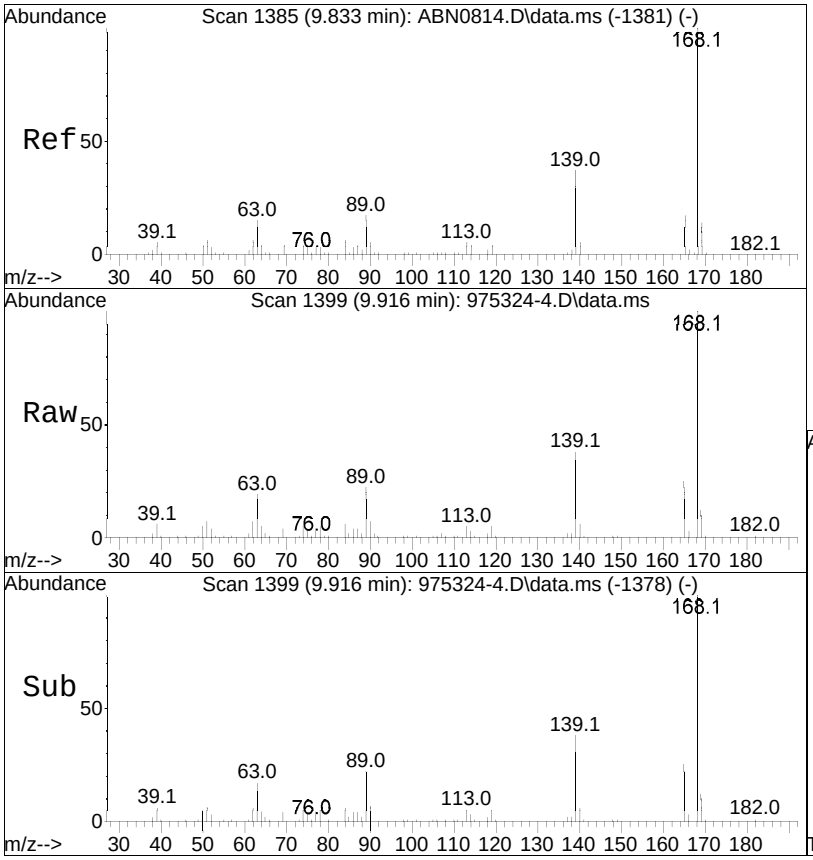


#66
2,4-Dinitrophenol
Concen: 1.65 ug/ml
RT: 9.786 min Scan# 1377
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:184 Resp: 1966

Ion	Ratio	Lower	Upper
184	100		
107	44.8	37.7	56.5
91	49.9	46.3	69.5

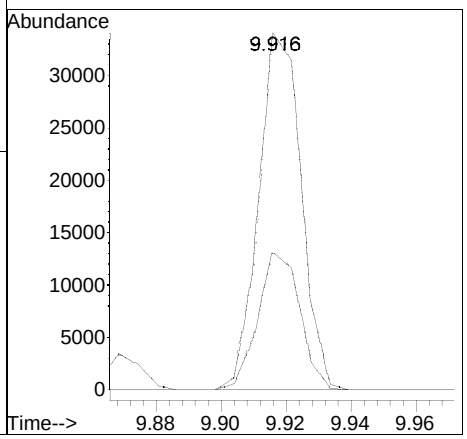


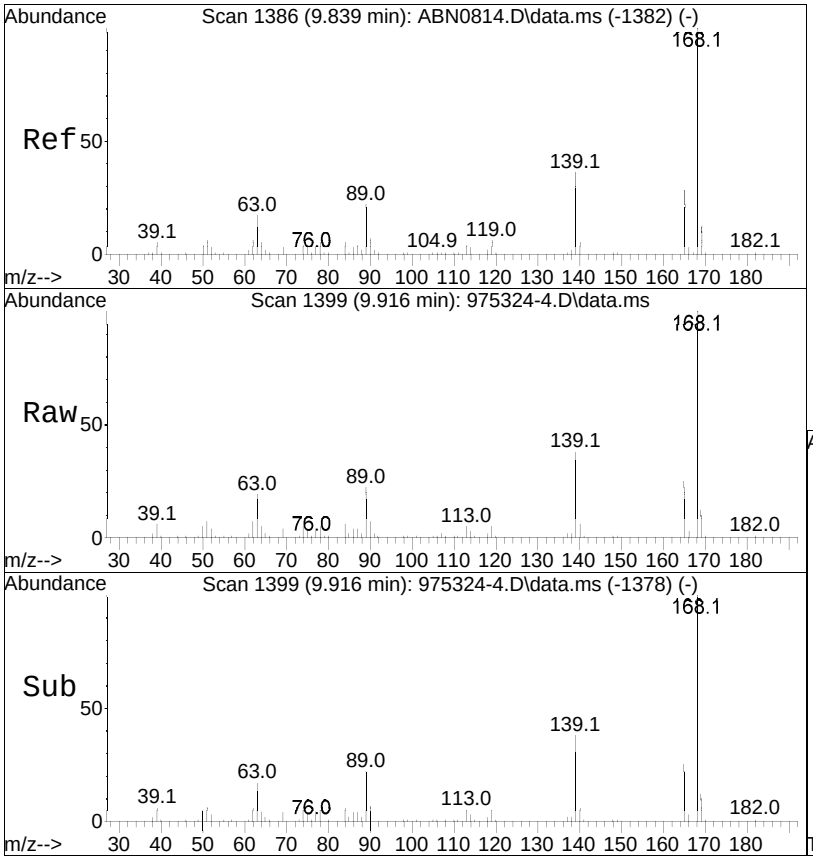


#67
Dibenzofuran
Concen: 1.31 ug/ml
RT: 9.916 min Scan# 1399
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:168 Resp: 30674

Ion	Ratio	Lower	Upper
168	100		
139	38.2	31.4	47.2

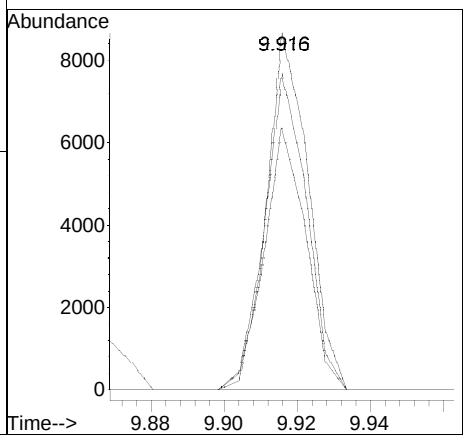


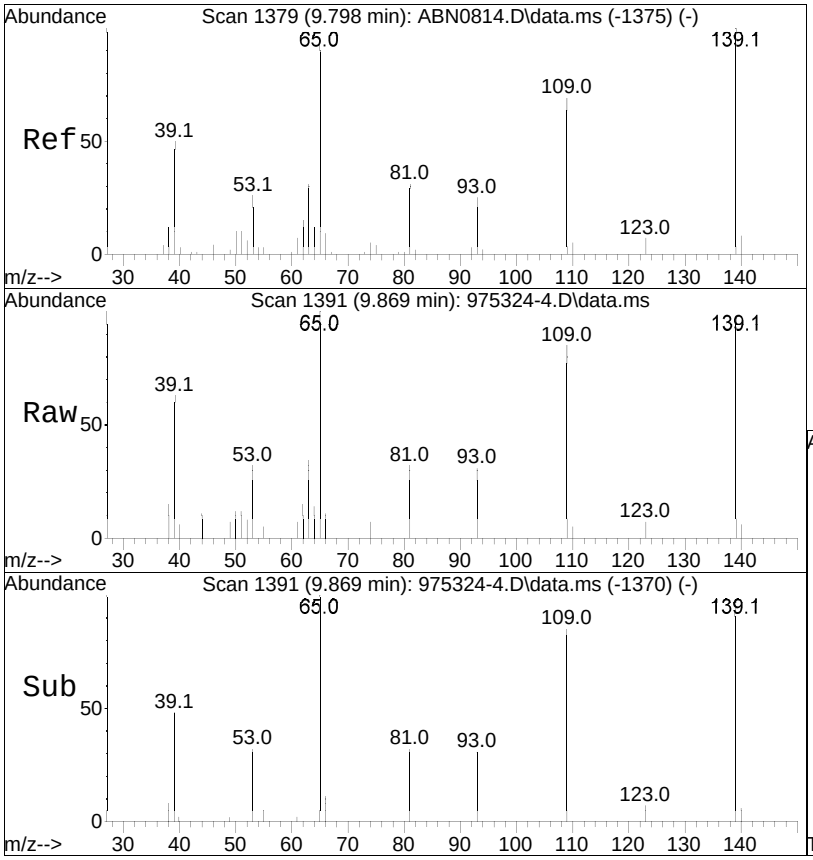


#68
2,4-Dinitrotoluene
Concen: 1.34 ug/ml
RT: 9.916 min Scan# 1399
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:165 Resp: 6811

Ion	Ratio	Lower	Upper
165	100		
89	89.2	72.0	108.0
63	73.7	52.7	79.1

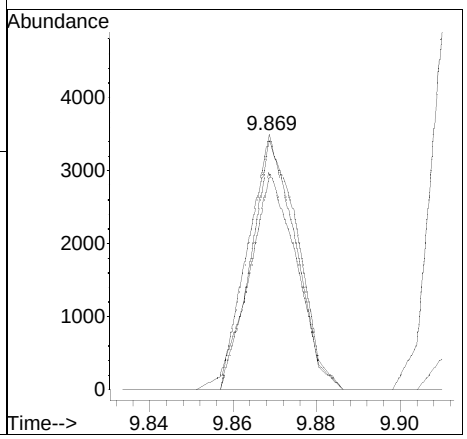


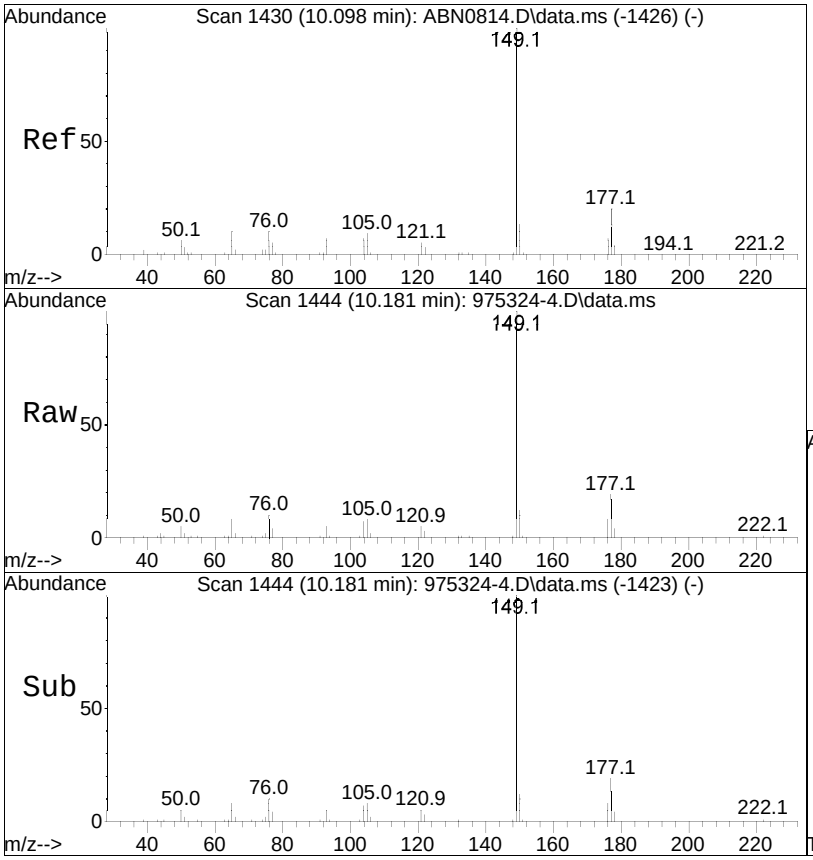


#69
4-Nitrophenol
Concen: 0.87 ug/ml
RT: 9.869 min Scan# 1391
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion: 65 Resp: 2723

Ion	Ratio	Lower	Upper
65	100		
109	86.6	47.4	71.2#
139	97.2	76.6	115.0

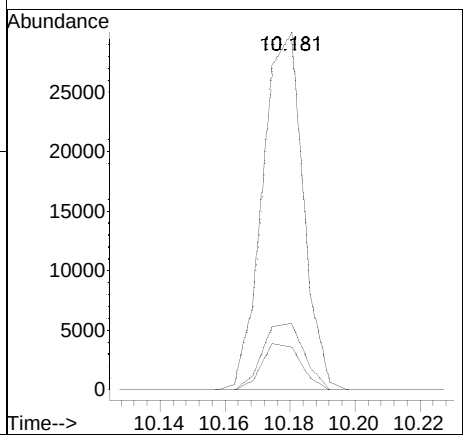


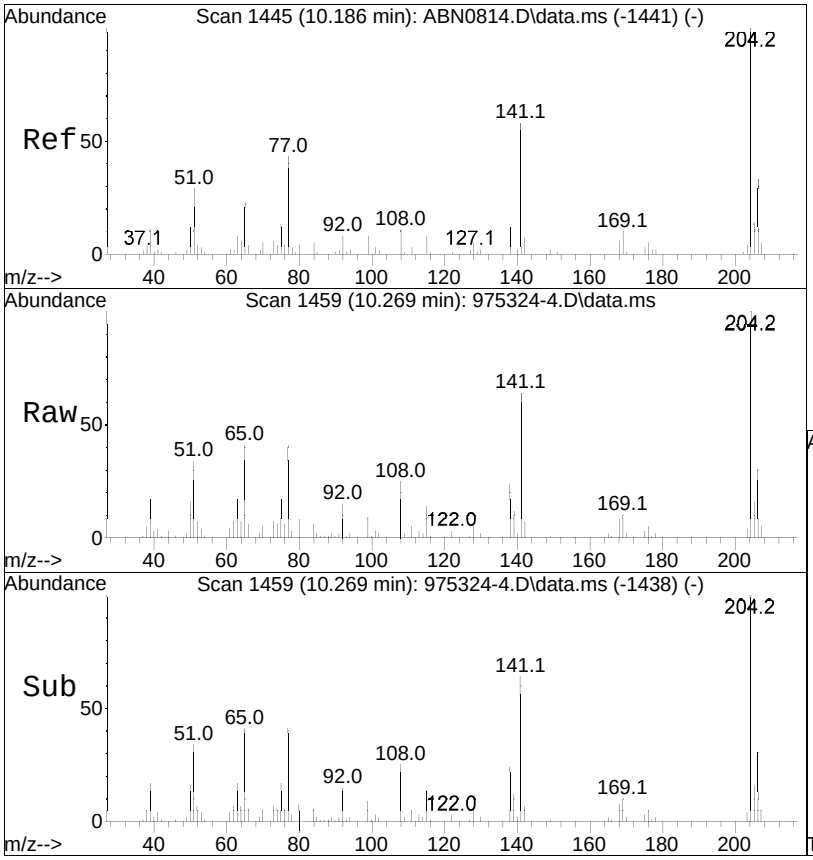


#72
Diethyl phthalate
Concen: 1.56 ug/ml
RT: 10.181 min Scan# 1444
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:149 Resp: 25743

Ion	Ratio	Lower	Upper
149	100		
177	19.2	16.1	24.1
150	12.6	9.4	14.2

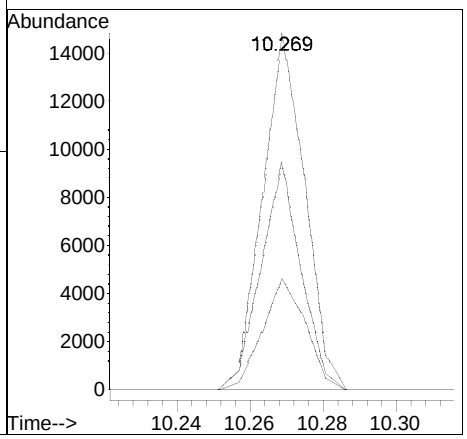


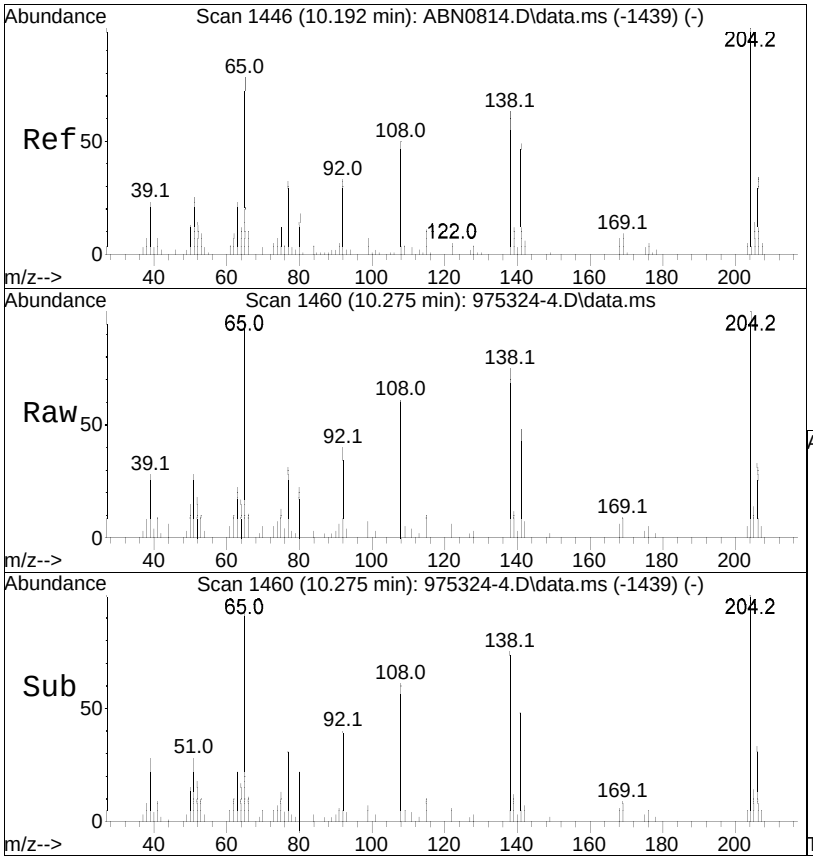


#74
4-Chlorophenyl phenyl ether
Concen: 1.33 ug/ml
RT: 10.269 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:204 Resp: 11785

Ion	Ratio	Lower	Upper
204	100		
206	31.9	25.8	38.6
141	60.7	53.6	80.4

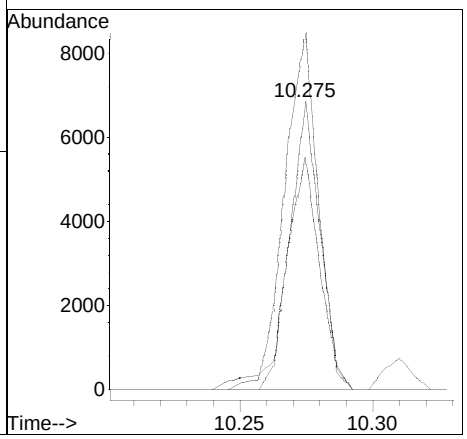


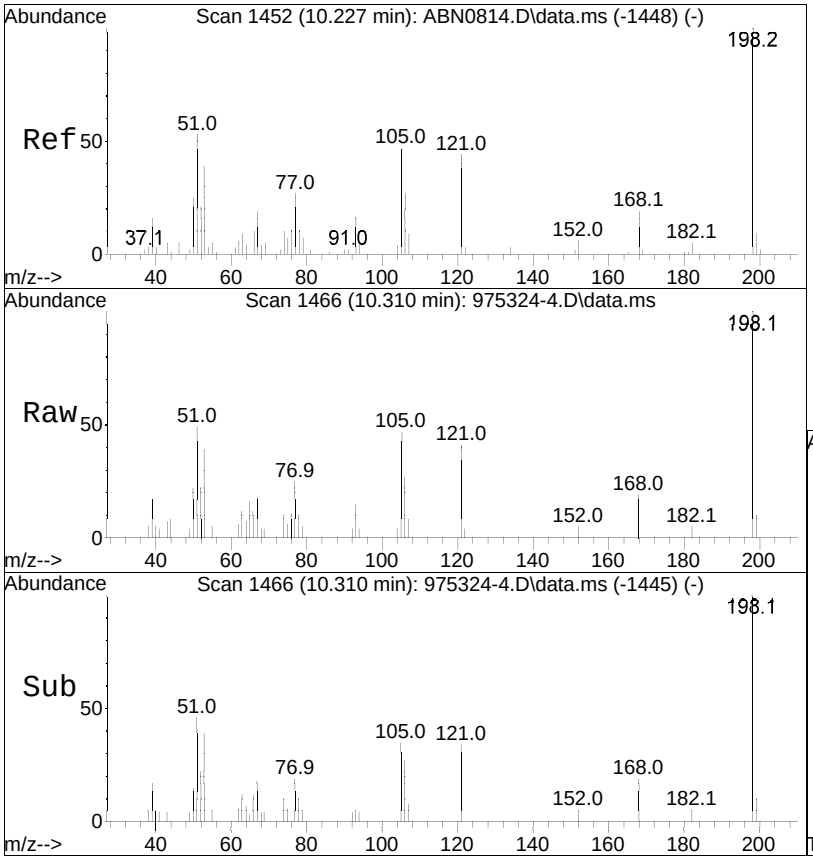


#75
4-Nitroaniline
Concen: 1.42 ug/ml
RT: 10.275 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:138 Resp: 5667

Ion	Ratio	Lower	Upper
138	100		
108	80.6	52.1	78.1#
65	131.1	115.0	172.6

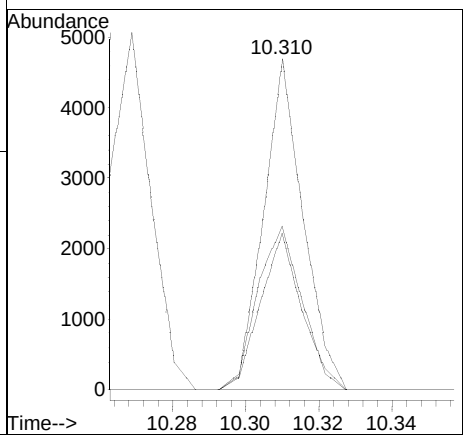


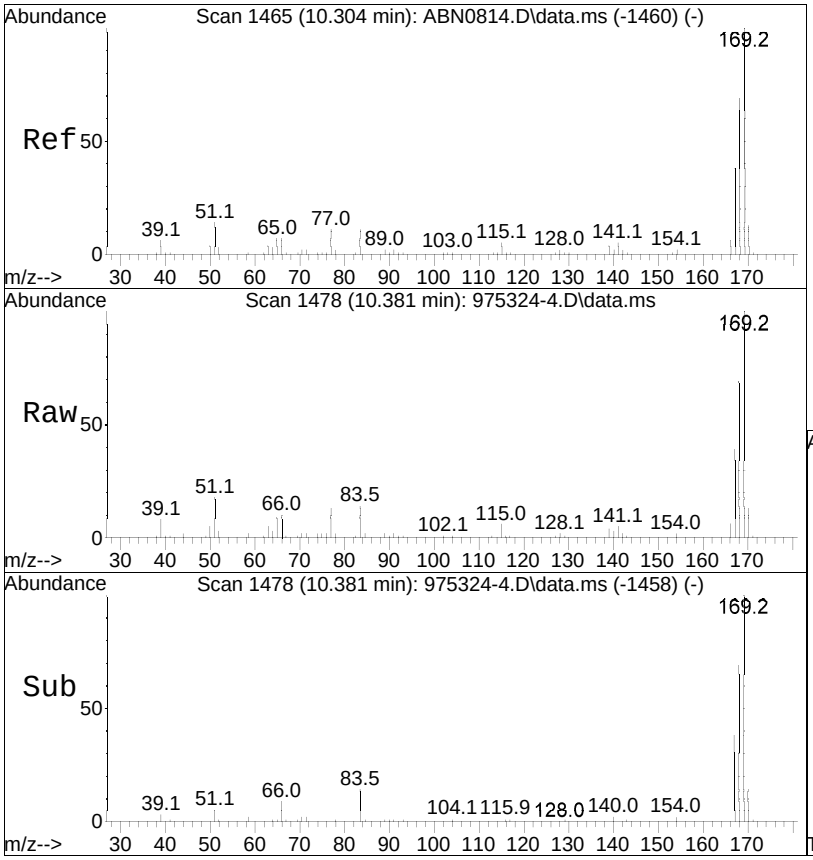


#76
4,6-Dinitro-o-cresol
Concen: 1.52 ug/ml
RT: 10.310 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:198 Resp: 3537

Ion	Ratio	Lower	Upper
198	100		
51	55.6	76.0	114.0#
105	49.8	45.6	68.4

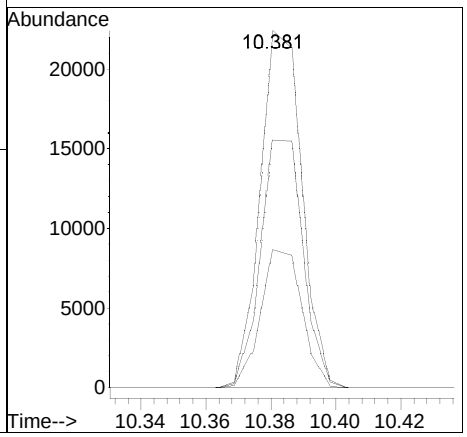


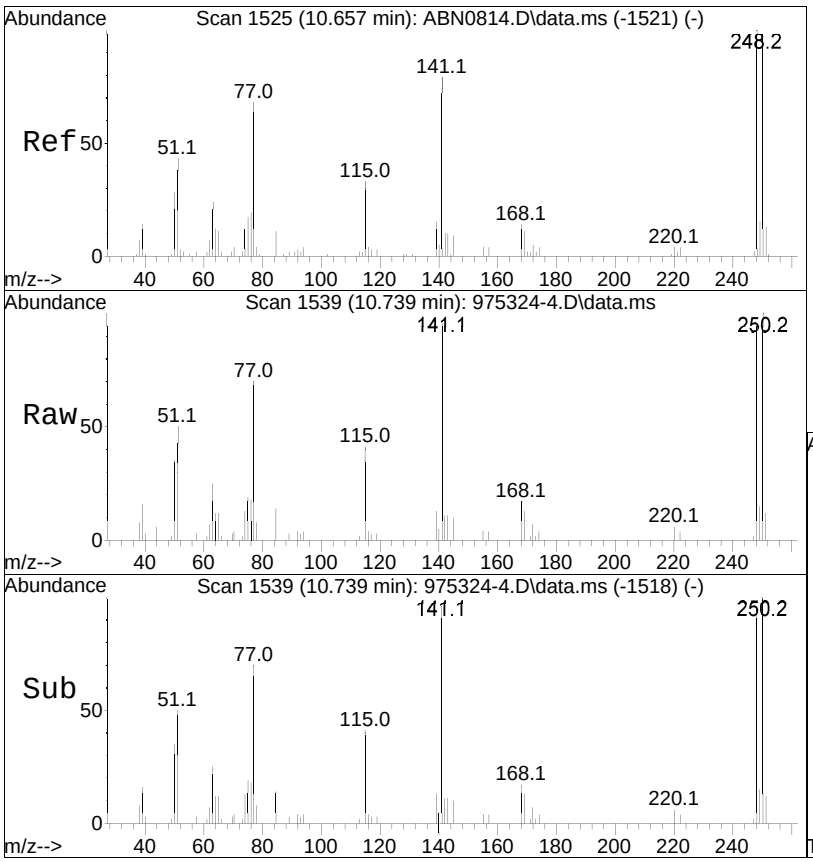


#77
NDPA/DPA
Concen: 1.38 ug/ml
RT: 10.381 min Scan# 1478
Delta R.T. -0.006 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:169 Resp: 19957

Ion	Ratio	Lower	Upper
169	100		
168	70.8	54.0	81.0
167	38.7	28.6	42.8

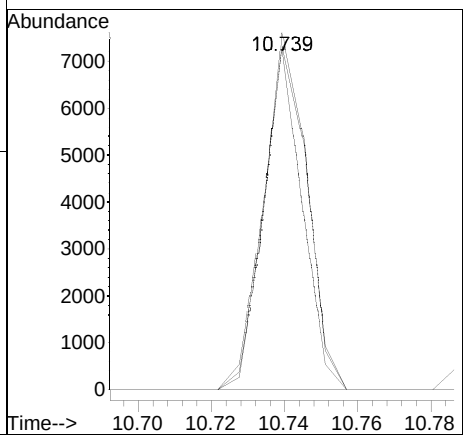


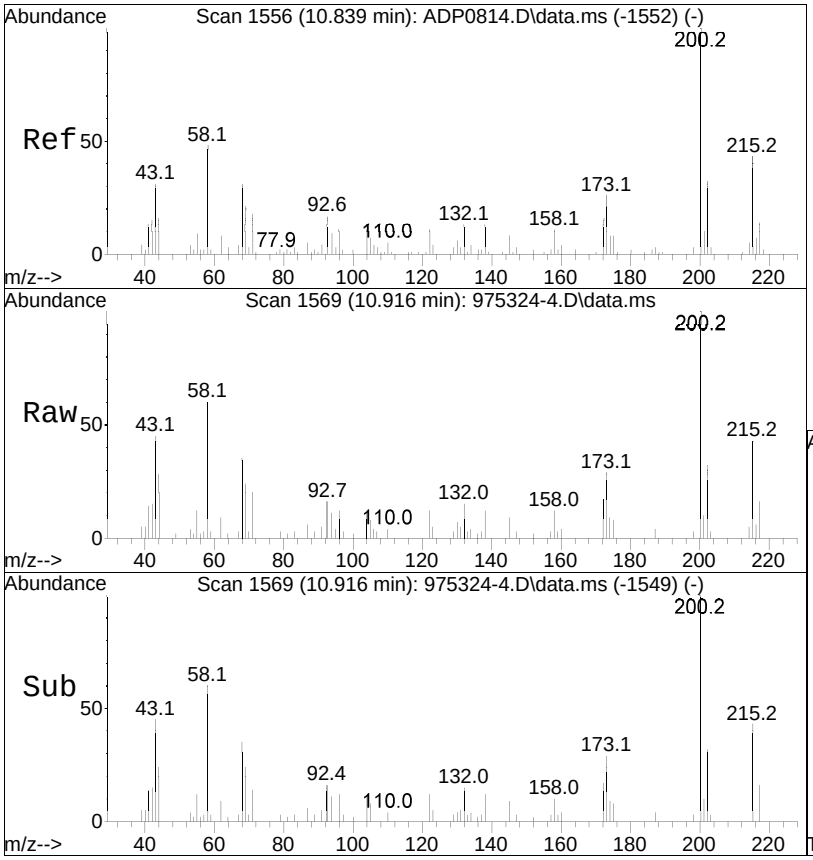


#80
4-Bromophenyl phenyl ether
Concen: 1.25 ug/ml
RT: 10.739 min Scan# 1539
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:248 Resp: 5973

Ion	Ratio	Lower	Upper
248	100		
141	91.2	76.6	114.8
250	101.9	77.3	115.9

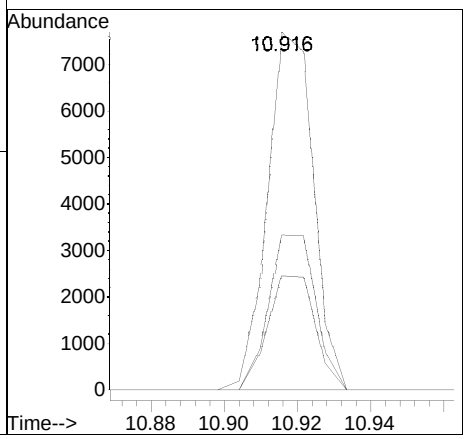


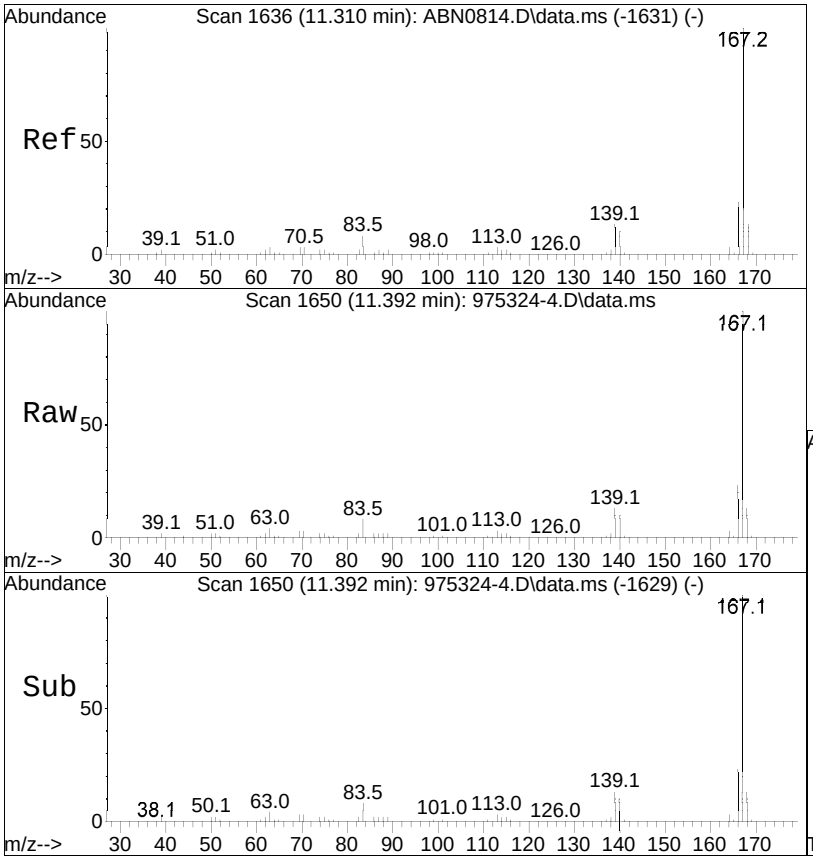


#87
Atrazine
Concen: 1.70 ug/ml
RT: 10.916 min Scan# 1569
Delta R.T. -0.006 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:200 Resp: 6662

Ion	Ratio	Lower	Upper
200	100		
202	33.3	25.8	38.6
215	44.4	40.2	60.4

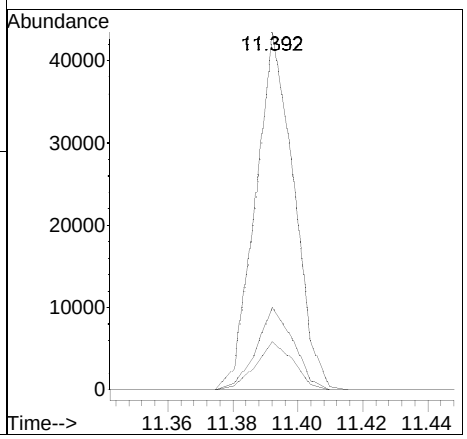


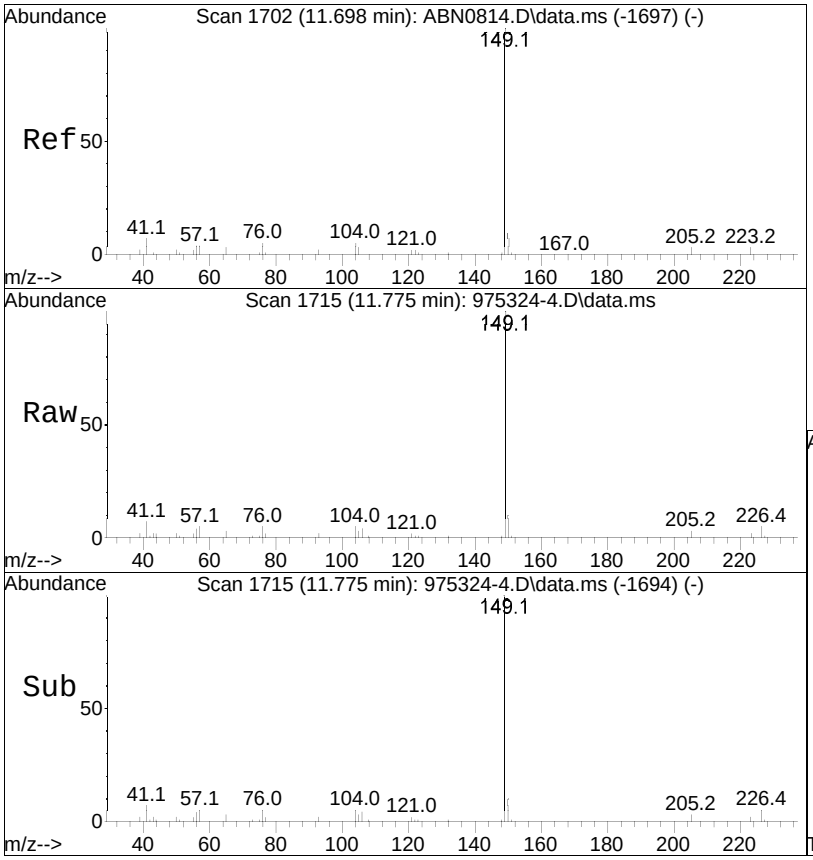


#91
Carbazole
Concen: 1.44 ug/ml
RT: 11.392 min Scan# 1650
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:167 Resp: 35215

Ion	Ratio	Lower	Upper
167	100		
168	13.4	10.6	15.8
166	22.4	17.4	26.0

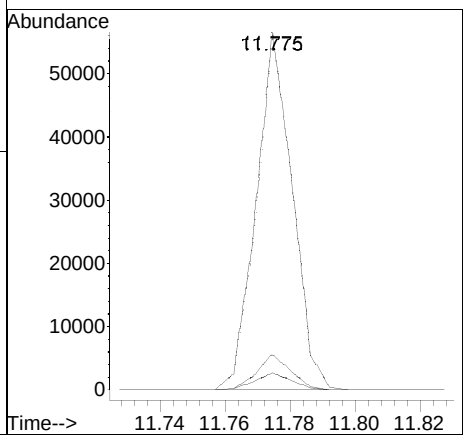


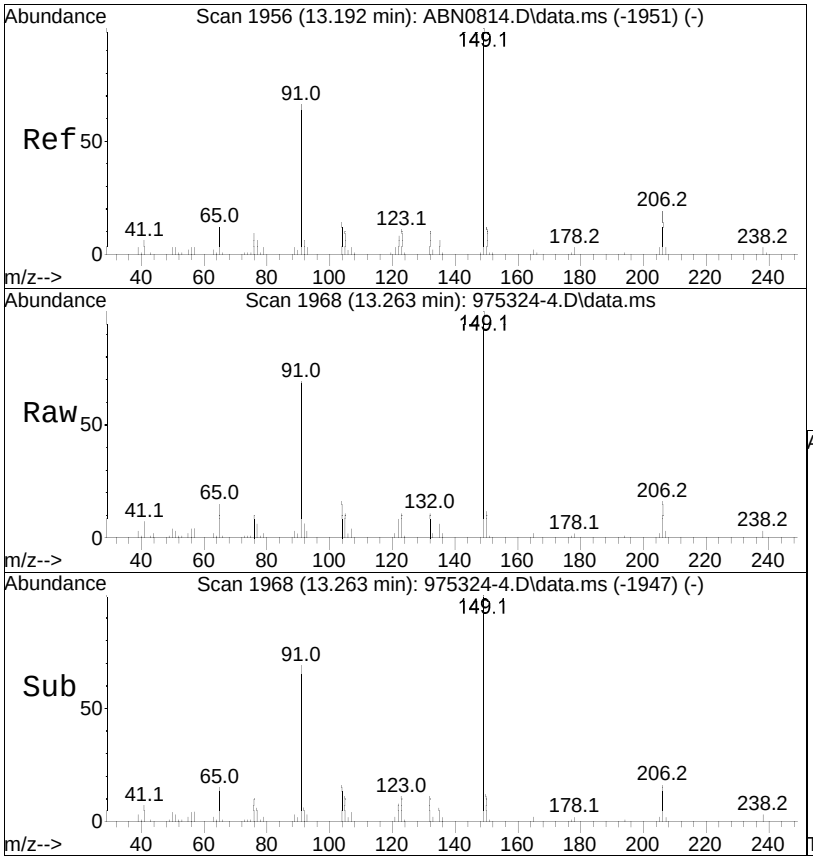


#92
Di-n-butylphthalate
Concen: 1.60 ug/ml
RT: 11.775 min Scan# 1715
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:149 Resp: 42950

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.0	10.6
104	4.9	4.5	6.7

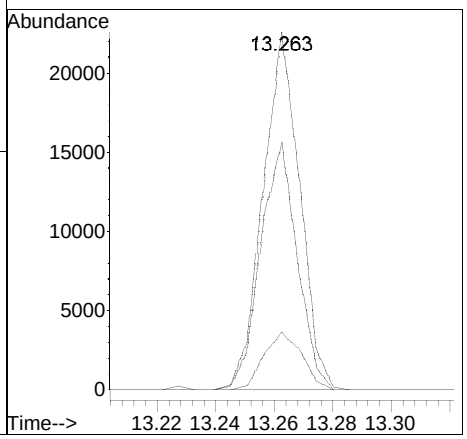


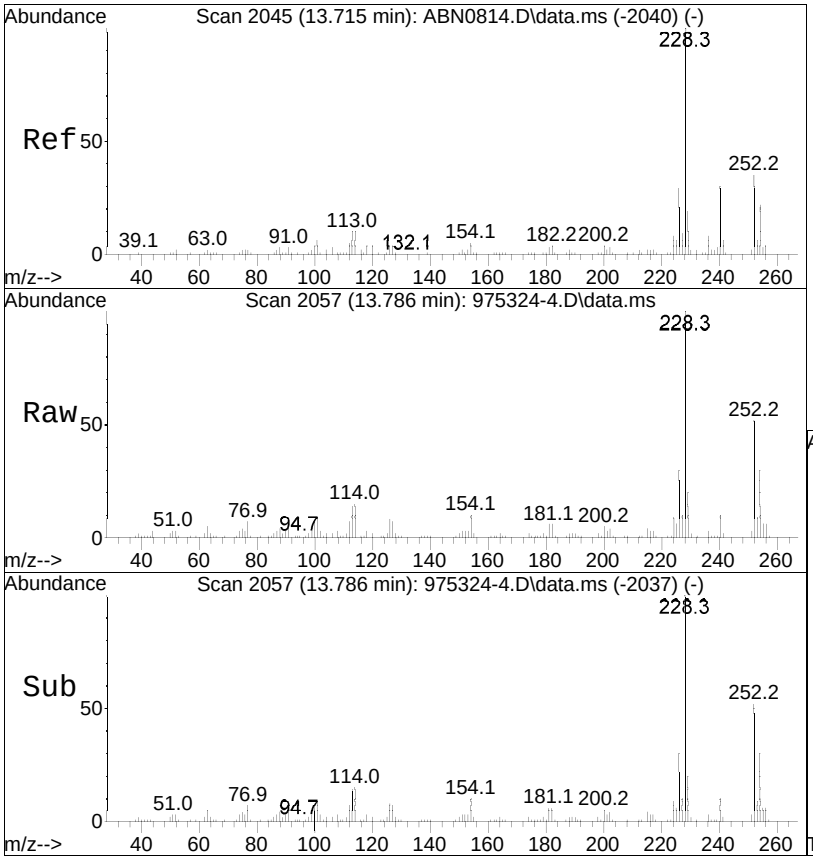


#97
Butyl benzyl phthalate
Concen: 1.74 ug/ml
RT: 13.263 min Scan# 1968
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:149 Resp: 19497

Ion	Ratio	Lower	Upper
149	100		
91	68.9	63.3	94.9
206	16.8	13.9	20.9

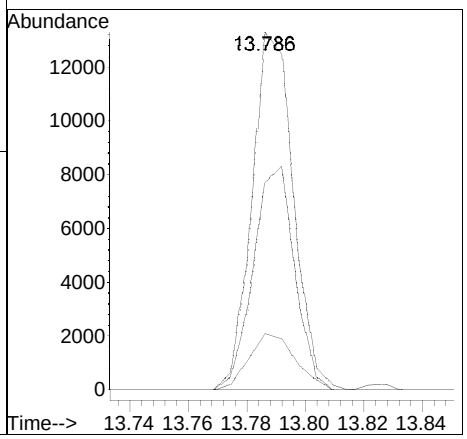


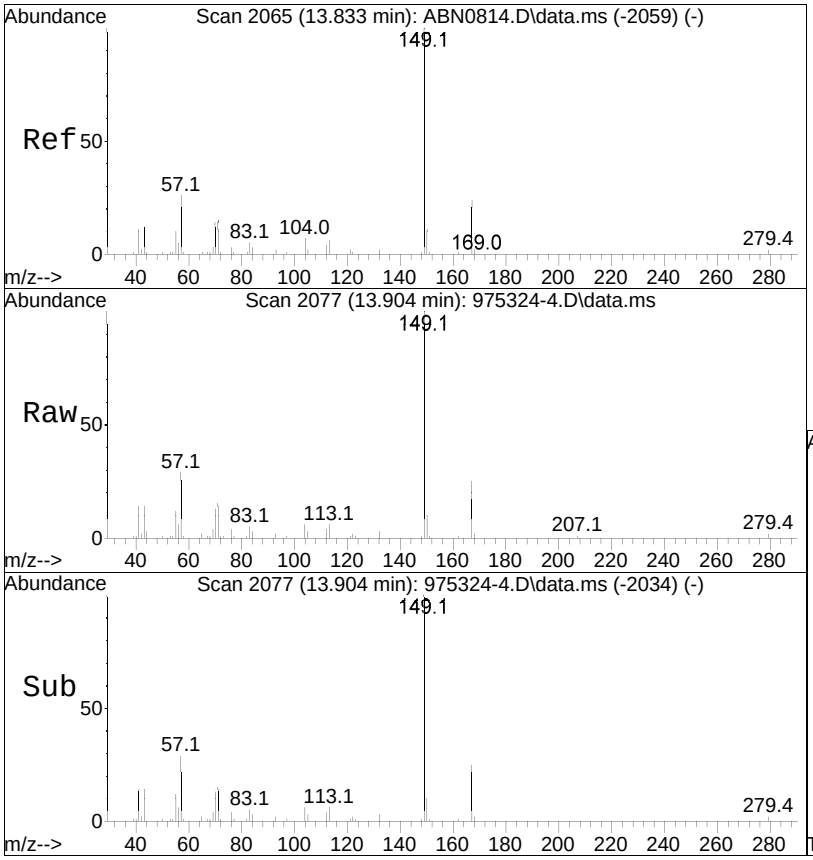


#106
3,3'-Dichlorobenzidine
Concen: 1.22 ug/ml
RT: 13.786 min Scan# 2057
Delta R.T. -0.006 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:252 Resp: 12958

Ion	Ratio	Lower	Upper
252	100		
126	17.6	14.5	21.7
254	62.6	51.2	76.8

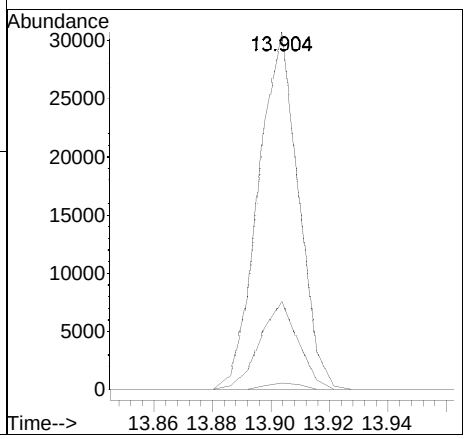


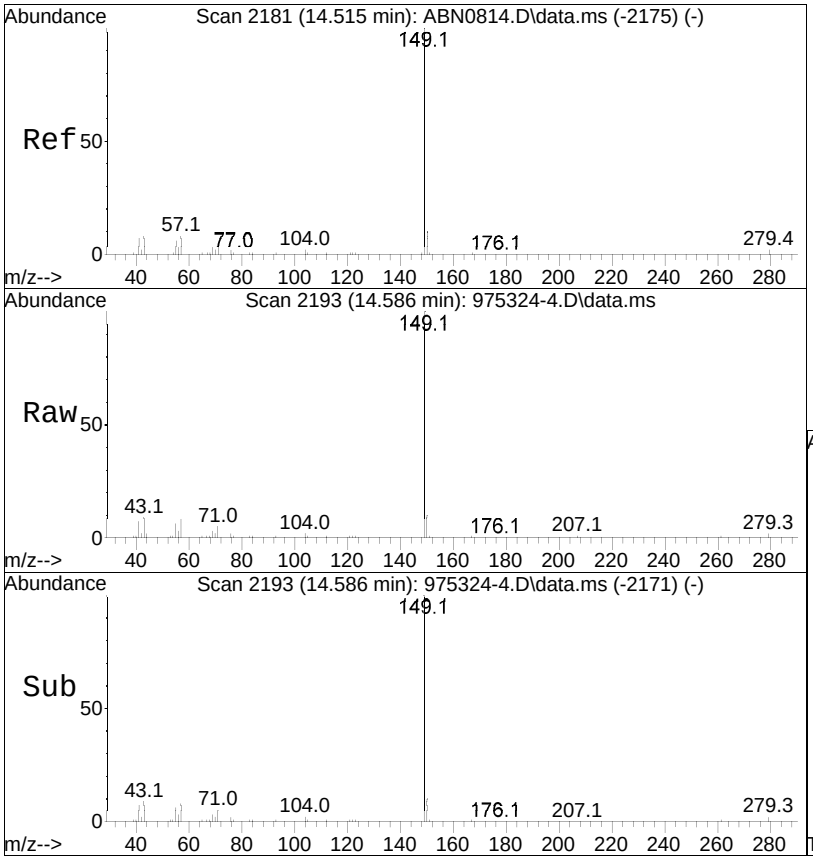


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.73 ug/ml
RT: 13.904 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:149 Resp: 29096

Ion	Ratio	Lower	Upper
149	100		
167	23.7	22.1	33.1
279	1.5	3.0	4.4#

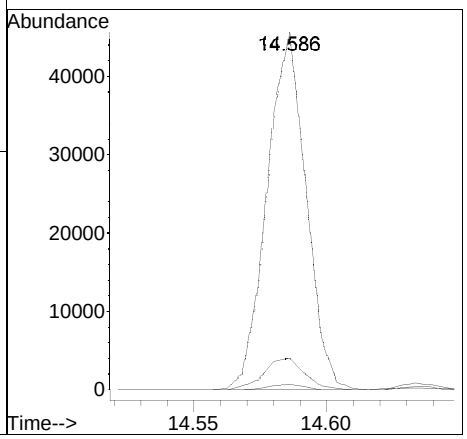




#109
Di-n-octylphthalate
Concen: 1.79 ug/ml
RT: 14.586 min Scan# 2193
Delta R.T. 0.006 min
Lab File: 975324-4.D
Acq: 25 Sep 2024 7:12 pm

Tgt Ion:149 Resp: 45985

Ion	Ratio	Lower	Upper
149	100		
43	9.3	18.8	28.2#
167	1.3	1.3	1.9#



Manual Integration Report

Data Path	: I:\8270\SV107\240925RVT\	QMethod	: FS240730SV107RVT.m
Data File	: 975324-4.D	Operator	: SV107:ek
Date Inj'd	: 9/25/2024 7:12 pm	Instrument	: SV107
Sample	: WG1975324-4,32,,mrg	Quant Date	: 9/25/2024 7:31 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : 975324-5.D
Acq On : 25 Sep 2024 7:37 pm
Operator : SV107:ek
Sample : WG1975324-5,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 25 19:55:49 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240925RVT\ABN0925.D
: 2 - I:\8270\SV107\240925RVT\ADP0925.D
: 3 - I:\8270\SV107\240925RVT\AP90925.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.545	152	23304	4.000	ug/ml	0.00
Standard Area 1 = 21684			Recovery =	107.47%		
27) IS2_1,4-Dichlorobenzen...	6.545	152	23304	4.000	ug/ml	0.00
Standard Area 3 = 22207			Recovery =	104.94%		
35) IS1_Naphthalene-d8	7.957	136	84817	4.000	ug/ml	0.00
Standard Area 1 = 77844			Recovery =	108.96%		
55) IS2_Naphthalene-d8	7.957	136	84817	4.000	ug/ml	0.00
Standard Area 3 = 80138			Recovery =	105.84%		
63) IS1_Acenaphthene-d10	9.716	164	50535	4.000	ug/ml	0.00
Standard Area 1 = 45627			Recovery =	110.76%		
83) IS2_Acenaphthene-d10	9.716	164	50535	4.000	ug/ml	0.00
Standard Area 3 = 45139			Recovery =	111.95%		
86) IS3_Acenaphthene-d10	9.716	164	50535	4.000	ug/ml	0.00
Standard Area 2 = 44867			Recovery =	112.63%		
88) IS1_Phenanthrene-d10	11.157	188	96717	4.000	ug/ml	0.00
Standard Area 1 = 84370			Recovery =	114.63%		
100) IS3_Phenanthrene-d10	11.157	188	96717	4.000	ug/ml	0.00
Standard Area 2 = 85159			Recovery =	113.57%		
104) IS1_Chrysene-d12	13.804	240	86299	4.000	ug/ml	0.00
Standard Area 1 = 82807			Recovery =	104.22%		
113) IS1_Perylene-d12	15.286	264	83608	4.000	ug/ml	0.00
Standard Area 1 = 83291			Recovery =	100.38%		
System Monitoring Compounds						
4) 2-Fluorophenol	4.722	112	6422	1.021	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	51.05%		
7) Phenol-d6	6.169	99	5589	0.679	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	33.95%		
19) Nitrobenzene-d5	7.192	82	5567	0.699	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	69.90%		
46) 2-Fluorobiphenyl	9.075	172	12651	0.663	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	66.30%		
79) 2,4,6-Tribromophenol	10.486	330	2364	0.999	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	49.95%		
96) 4-Terphenyl-d14	12.739	244	14339	0.627	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	62.70%		

Data Path : I:\8270\SV107\240925RVT\
Data File : 975324-5.D
Acq On : 25 Sep 2024 7:37 pm
Operator : SV107:ek
Sample : WG1975324-5,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 25 19:55:49 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240925RVT\ABN0925.D
: 2 - I:\8270\SV107\240925RVT\ADP0925.D
: 3 - I:\8270\SV107\240925RVT\AP90925.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
6) 2-Chlorophenol	6.287	128	10375	1.376 ug/ml	97
8) Phenol	6.187	94	7585	0.831 ug/ml	99
14) Bis(2-chloroisopropyl)...	6.916	45	18612	1.975 ug/ml#	68
15) 2-Methylphenol	6.910	108	8489	1.294 ug/ml	99
17) n-Nitrosodi-n-propylamine	7.063	70	7698	1.533 ug/ml	94
18) 3-Methylphenol/4-Methy...	7.092	108	8730	1.207 ug/ml	97
20) Nitrobenzene	7.210	77	11462	1.500 ug/ml	97
21) Isophorone	7.487	82	19996	1.464 ug/ml	96
22) 2-Nitrophenol	7.569	139	5455	1.405 ug/ml#	90
23) 2,4-Dimethylphenol	7.657	107	7538	1.197 ug/ml	94
24) Bis(2-chloroethoxy)met...	7.751	93	13331	1.444 ug/ml#	97
25) 2,4-Dichlorophenol	7.828	162	9667	1.406 ug/ml	95
28) Benzaldehyde	5.981	105	7979	1.197 ug/ml	97
29) Acetophenone	7.034	105	16058	1.357 ug/ml#	84
38) 4-Chloroaniline	8.057	65	3812	1.422 ug/ml	89
40) p-Chloro-m-cresol	8.581	107	9258	1.543 ug/ml	98
43) Hexachlorocyclopentadiene	8.869	237	5259	1.172 ug/ml	97
44) 2,4,6-Trichlorophenol	8.986	196	7478	1.507 ug/ml	95
45) 2,4,5-Trichlorophenol	9.016	196	7834	1.486 ug/ml	96
48) 2-Nitroaniline	9.281	138	6186	1.429 ug/ml	97
51) Dimethyl phthalate	9.486	163	26561	1.452 ug/ml#	98
53) 2,6-Dinitrotoluene	9.528	165	5177	1.446 ug/ml#	86
60) Caprolactam	8.369	55	1745	1.023 ug/ml#	87
61) 1,2,4,5-Tetrachloroben...	8.863	216	11459	1.217 ug/ml	98
62) Biphenyl	9.163	154	27315	1.244 ug/ml	98
64) 3-Nitroaniline	9.686	138	5680	1.405 ug/ml#	97
66) 2,4-Dinitrophenol	9.786	184	2339	1.766 ug/ml#	84
67) Dibenzofuran	9.922	168	33911	1.428 ug/ml	95
68) 2,4-Dinitrotoluene	9.922	165	7198	1.395 ug/ml	96
69) 4-Nitrophenol	9.869	65	3028	0.947 ug/ml#	89
72) Diethyl phthalate	10.181	149	27620	1.647 ug/ml	99
74) 4-Chlorophenyl phenyl ...	10.269	204	12472	1.385 ug/ml	98
75) 4-Nitroaniline	10.275	138	5823	1.440 ug/ml#	90
76) 4,6-Dinitro-o-cresol	10.310	198	3676	1.545 ug/ml#	69
77) NDPA/DPA	10.386	169	21058	1.430 ug/ml	95
80) 4-Bromophenyl phenyl e...	10.739	248	6303	1.296 ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : 975324-5.D
Acq On : 25 Sep 2024 7:37 pm
Operator : SV107:ek
Sample : WG1975324-5,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 25 19:55:49 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\240925RVT\ABN0925.D
: 2 - I:\8270\SV107\240925RVT\ADP0925.D
: 3 - I:\8270\SV107\240925RVT\AP90925.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Atrazine	10.916	200	7054	1.775	ug/ml	93
91) Carbazole	11.392	167	35558	1.480	ug/ml	97
92) Di-n-butylphthalate	11.775	149	44078	1.666	ug/ml	100
97) Butyl benzyl phthalate	13.263	149	19604	1.767	ug/ml	90
106) 3,3'-Dichlorobenzidine	13.792	252	12937	1.283	ug/ml	96
108) Bis(2-ethylhexyl)phtha...	13.904	149	28558	1.796	ug/ml#	93
109) Di-n-octylphthalate	14.586	149	44576	1.820	ug/ml#	73

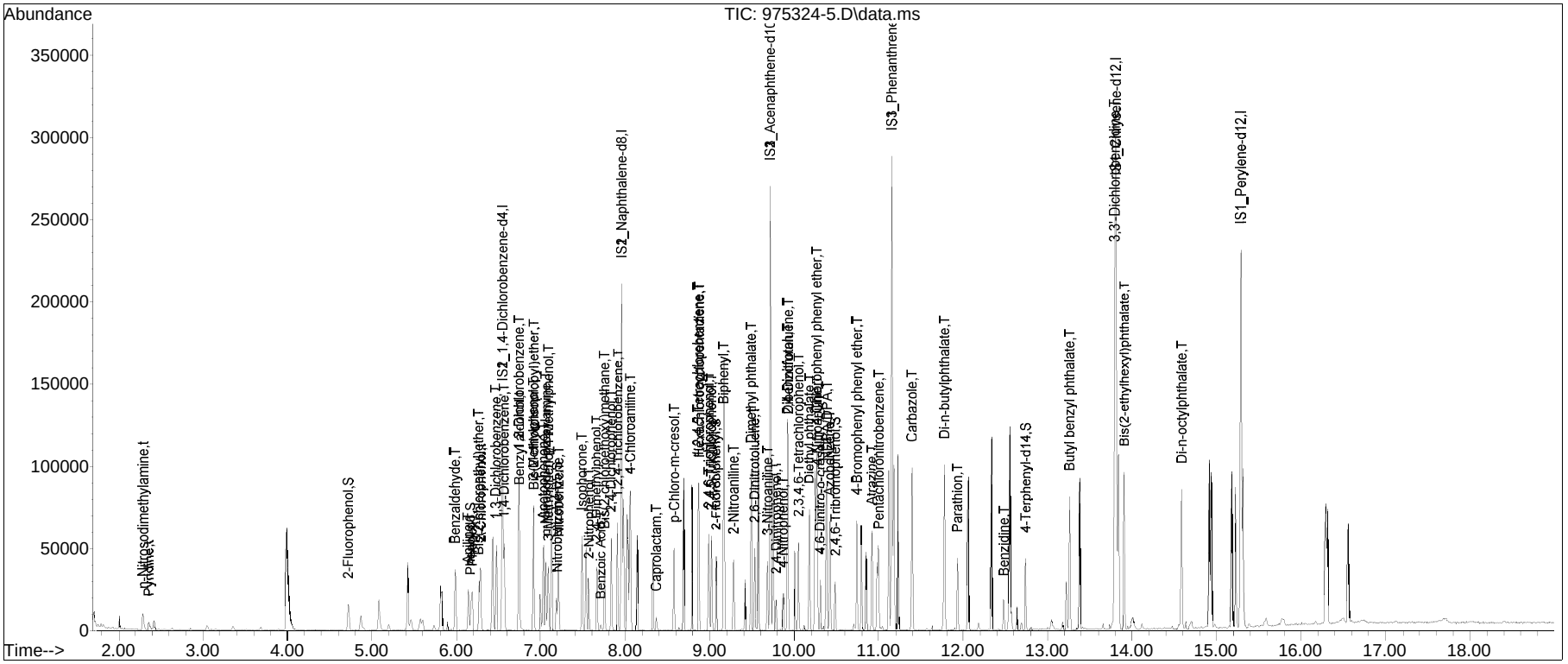
(#) = qualifier out of range (m) = manual integration (+) = signals summed

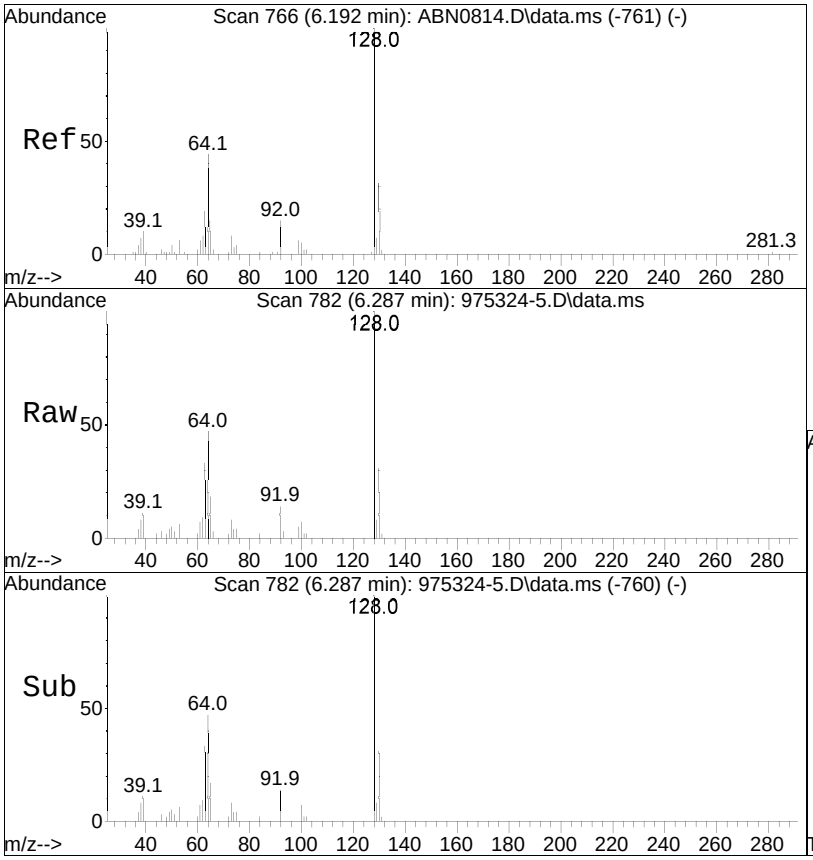
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\240925RVT\
Data File : 975324-5.D
Acq On : 25 Sep 2024 7:37 pm
Operator : SV107:ek
Sample : WG1975324-5,32,,mrg
Misc : WG1976103,WG1975324,ical21169
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 25 19:55:49 2024
Quant Method : I:\8270\SV107\240925RVT\FS240730SV107RVT.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 10:21:08 2024
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA90925.D•

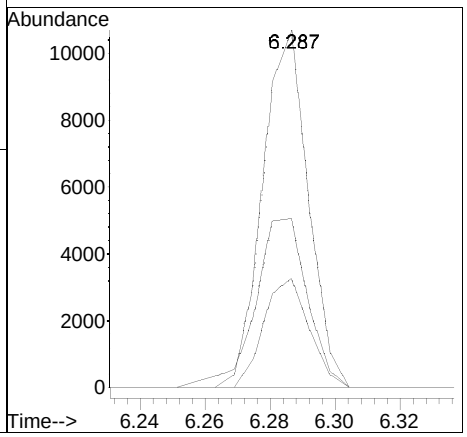


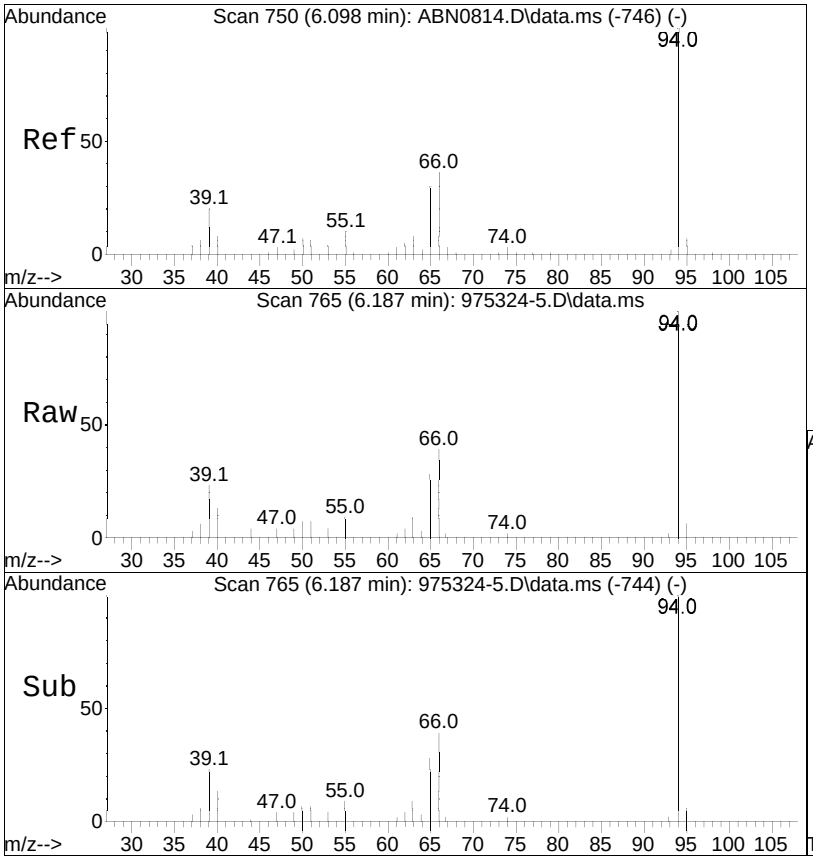


#6
2-Chlorophenol
Concen: 1.38 ug/ml
RT: 6.287 min Scan# 782
Delta R.T. 0.006 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:128 Resp: 10375

Ion	Ratio	Lower	Upper
128	100		
64	54.1	45.1	67.7
130	30.6	26.2	39.4

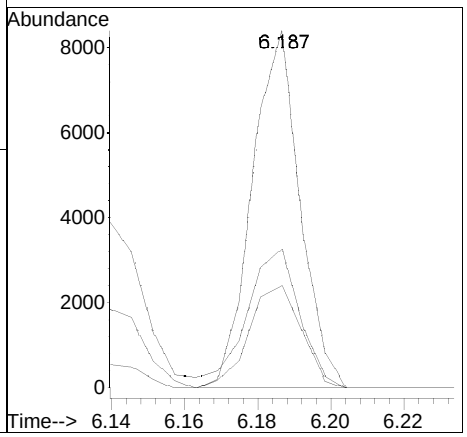


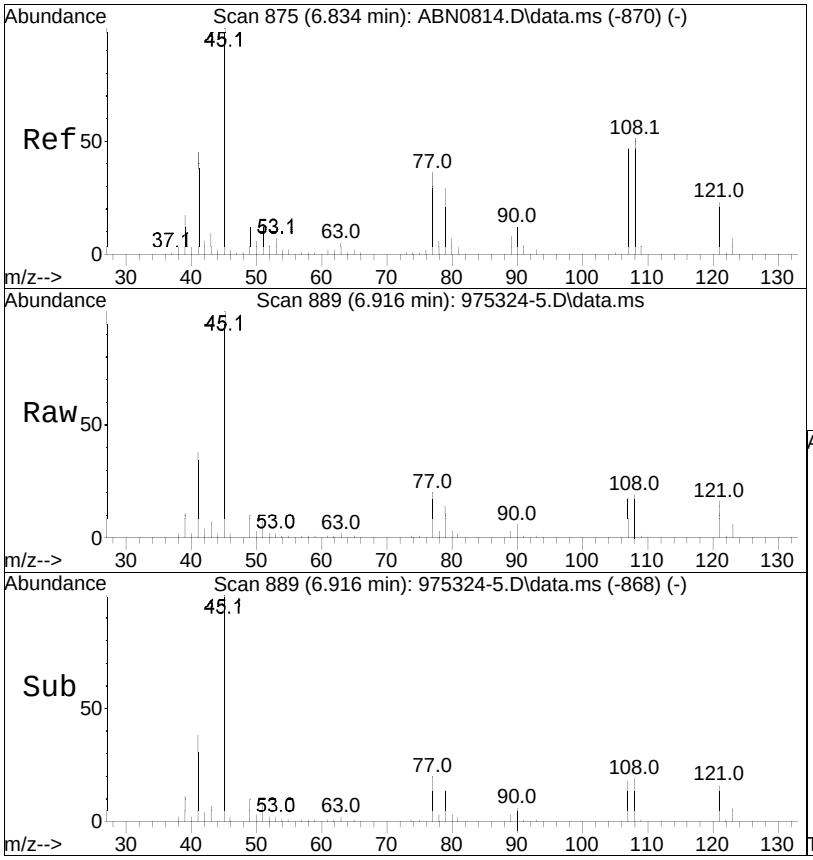


#8
Phenol
Concen: 0.83 ug/ml
RT: 6.187 min Scan# 765
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion: 94 Resp: 7585

Ion	Ratio	Lower	Upper
94	100		
65	31.5	26.0	39.0
66	43.1	33.8	50.8

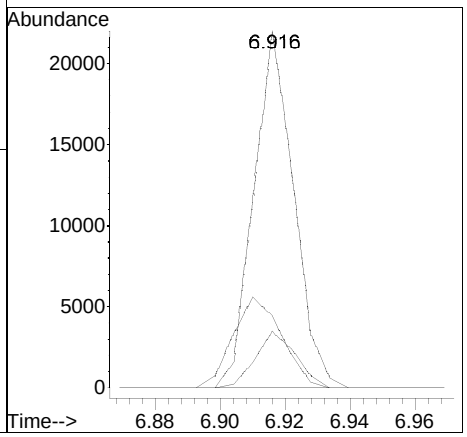


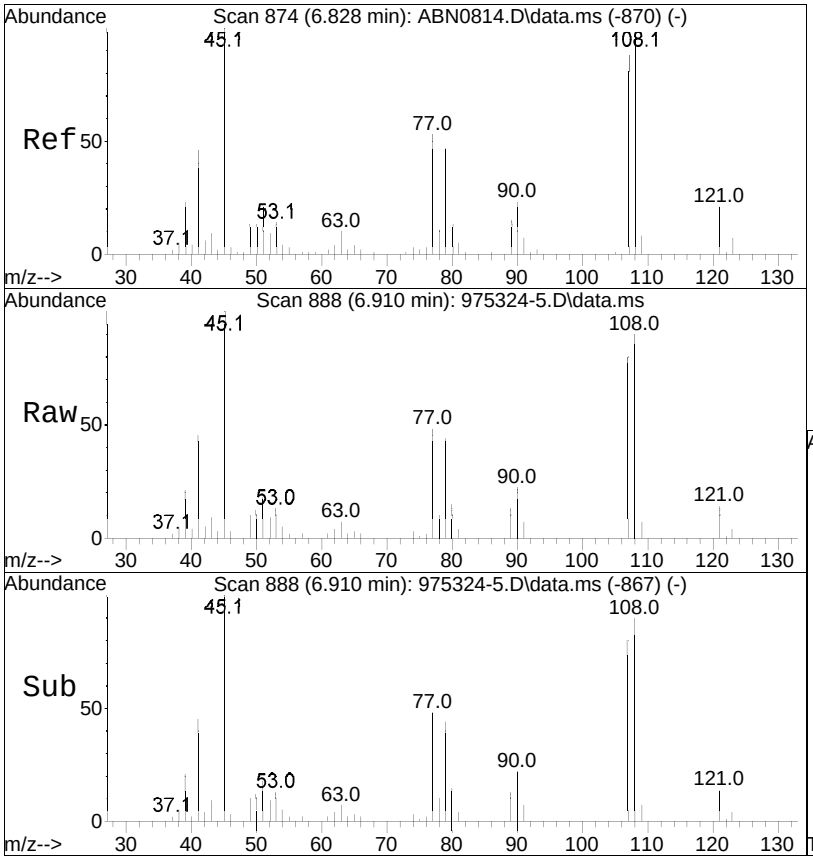


#14
Bis(2-chloroisopropyl)ether
Concen: 1.98 ug/ml
RT: 6.916 min Scan# 889
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion: 45 Resp: 18612

Ion	Ratio	Lower	Upper
45	100		
121	16.1	9.8	14.6#
77	31.3	6.1	9.1#

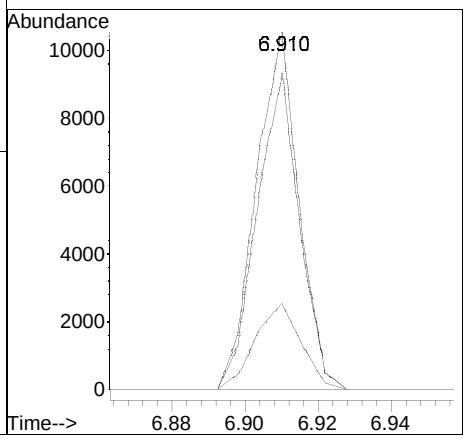


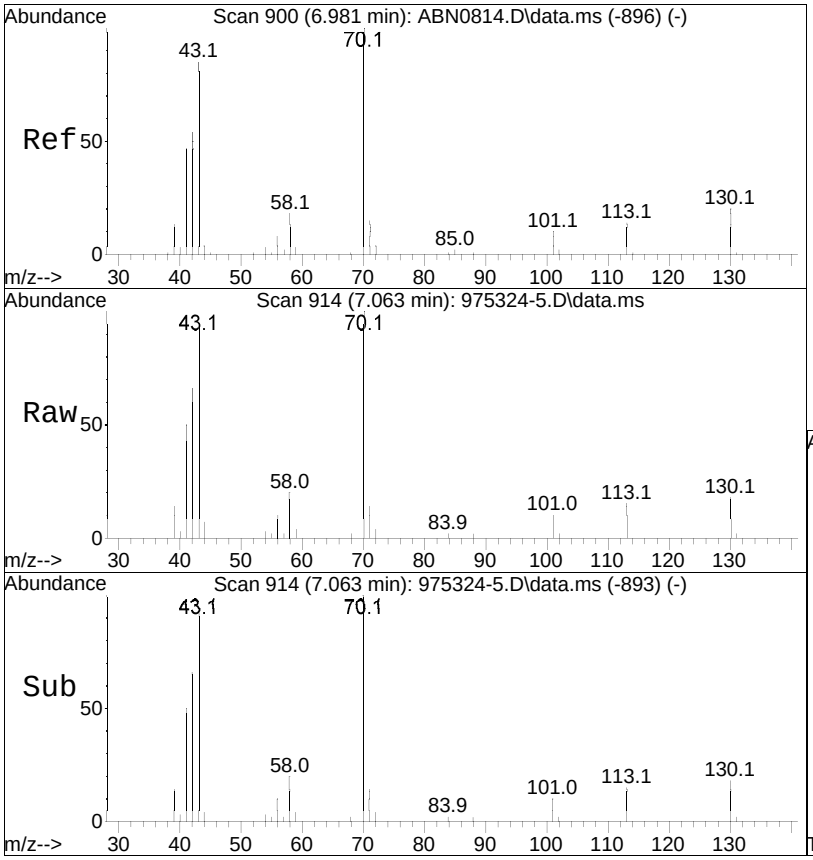


#15
2-Methylphenol
Concen: 1.29 ug/ml
RT: 6.910 min Scan# 888
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:108 Resp: 8489

Ion	Ratio	Lower	Upper
108	100		
107	88.0	70.7	106.1
90	26.0	18.7	28.1

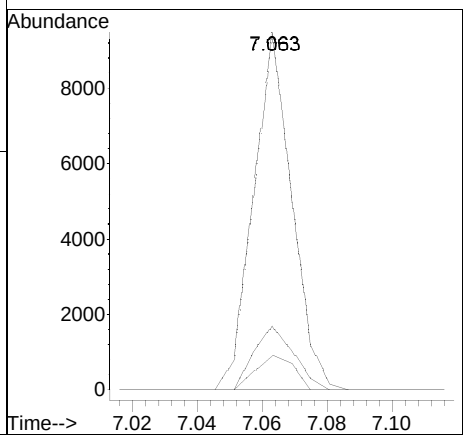


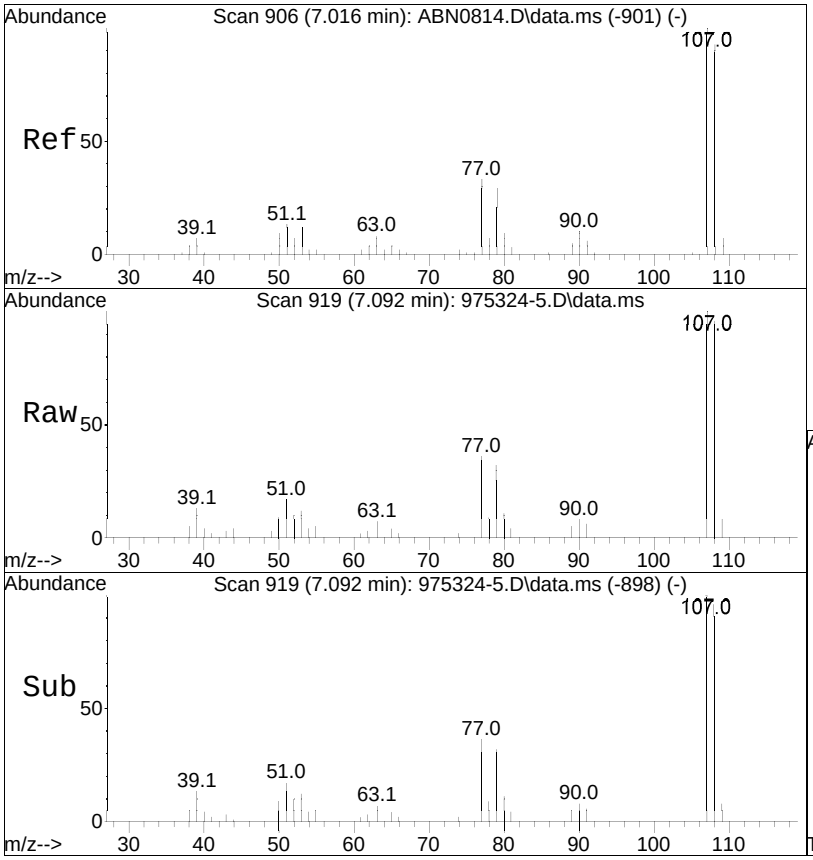


#17
n-Nitrosodi-n-propylamine
Concen: 1.53 ug/ml
RT: 7.063 min Scan# 914
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion: 70 Resp: 7698

Ion	Ratio	Lower	Upper
70	100		
130	18.6	18.2	27.4
101	9.5	7.8	11.8

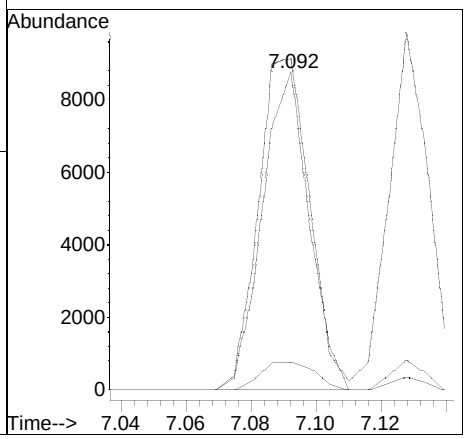


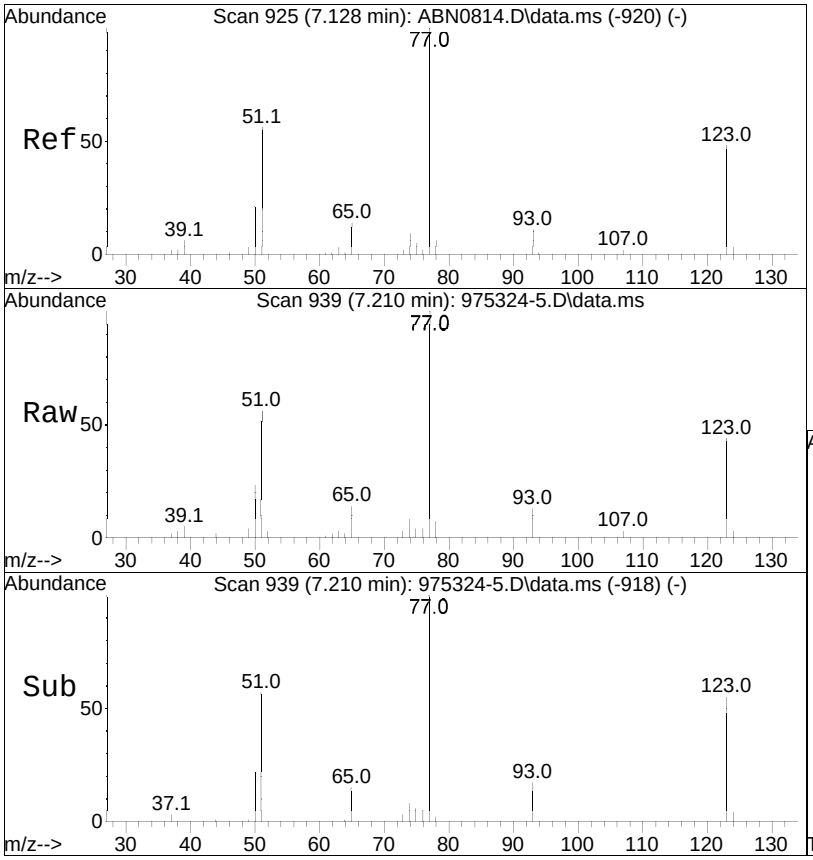


#18
3-Methylphenol/4-Methylphenol
Concen: 1.21 ug/ml
RT: 7.092 min Scan# 919
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:108 Resp: 8730

Ion	Ratio	Lower	Upper
108	100		
107	114.5	88.6	132.8
90	10.2	8.8	13.2

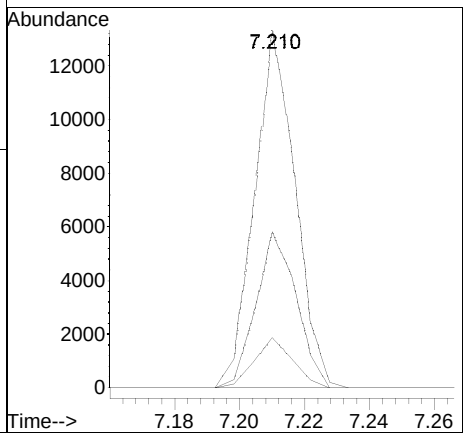


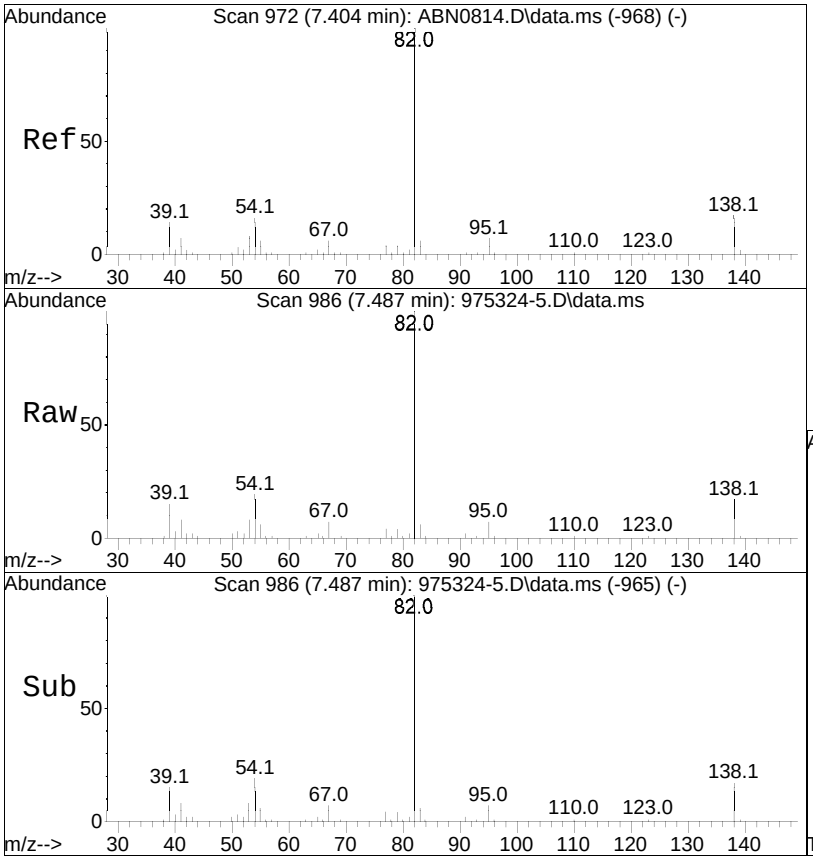


#20
Nitrobenzene
Concen: 1.50 ug/ml
RT: 7.210 min Scan# 939
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion: 77 Resp: 11462

Ion	Ratio	Lower	Upper
77	100		
123	43.4	36.3	54.5
65	13.4	11.6	17.4

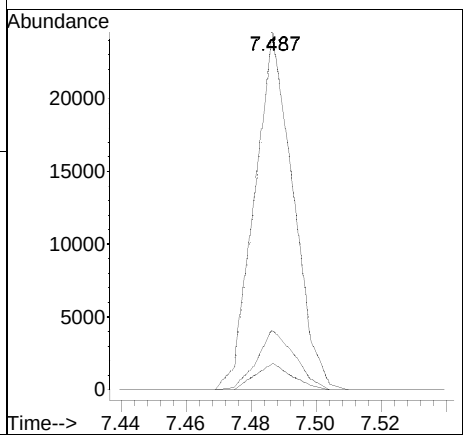


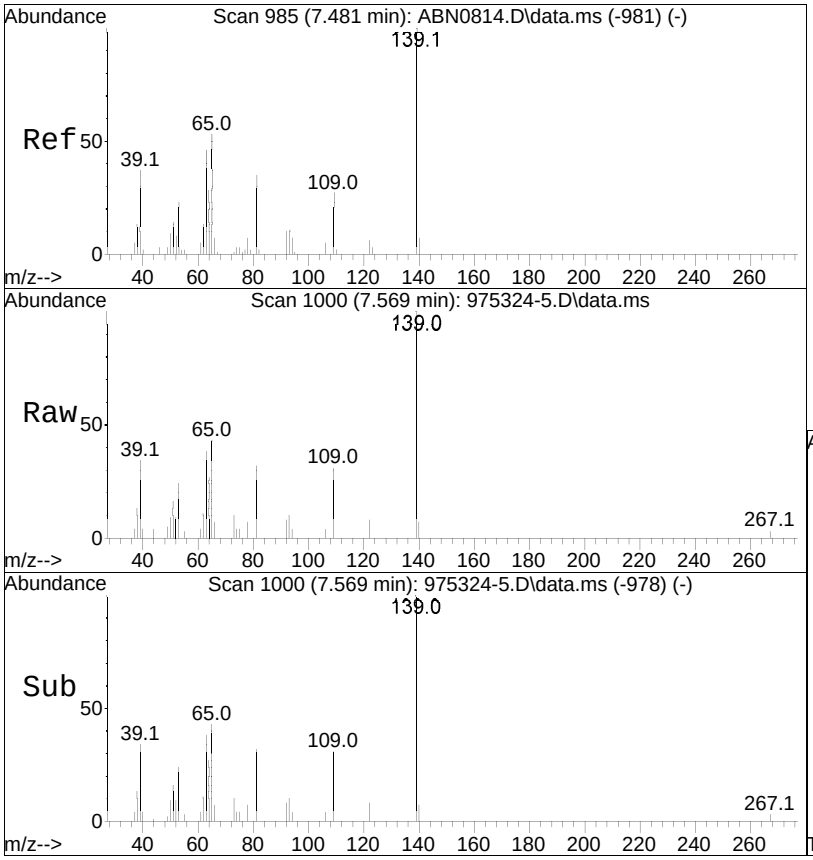


#21
Isophorone
Concen: 1.46 ug/ml
RT: 7.487 min Scan# 986
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion: 82 Resp: 19996

Ion	Ratio	Lower	Upper
82	100		
138	16.4	14.7	22.1
95	7.1	5.2	7.8

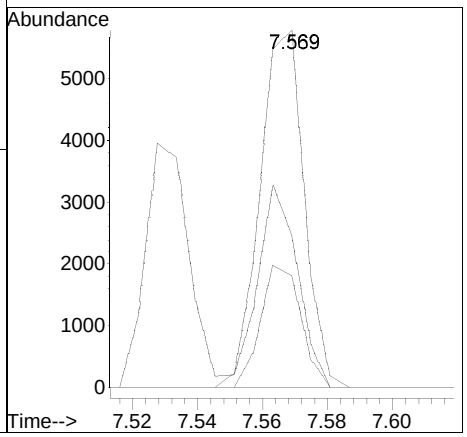


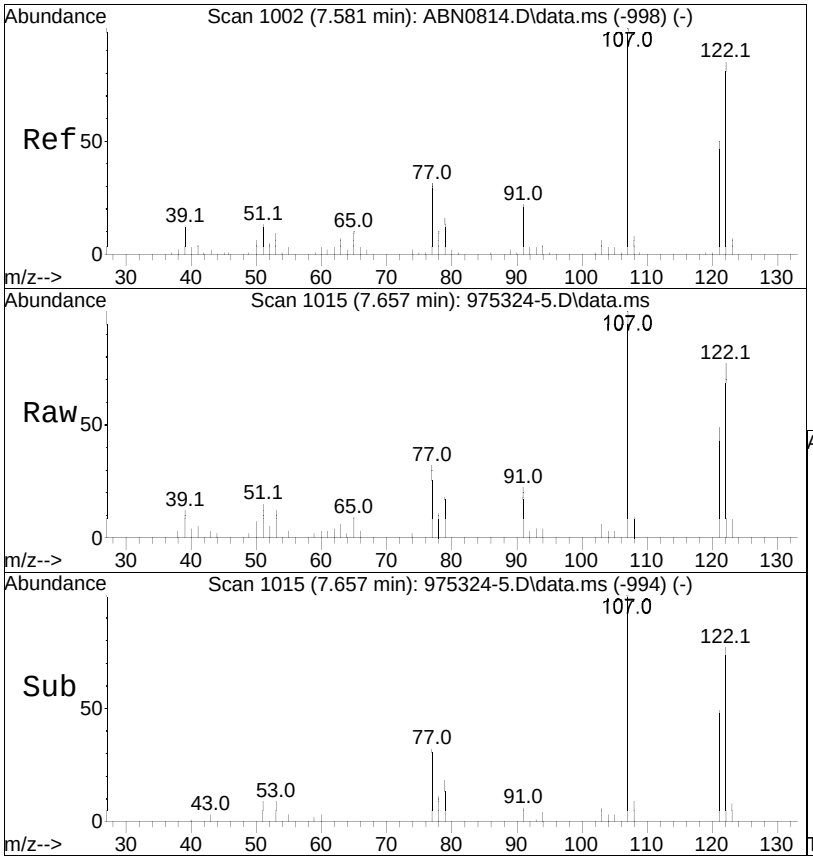


#22
2-Nitrophenol
Concen: 1.40 ug/ml
RT: 7.569 min Scan# 1000
Delta R.T. 0.006 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:139 Resp: 5455

Ion	Ratio	Lower	Upper
139	100		
109	31.3	19.4	29.0#
65	51.4	46.1	69.1

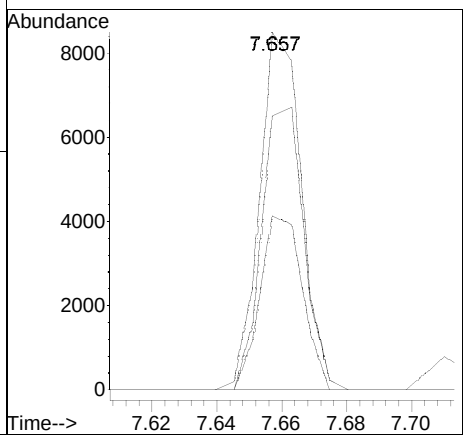


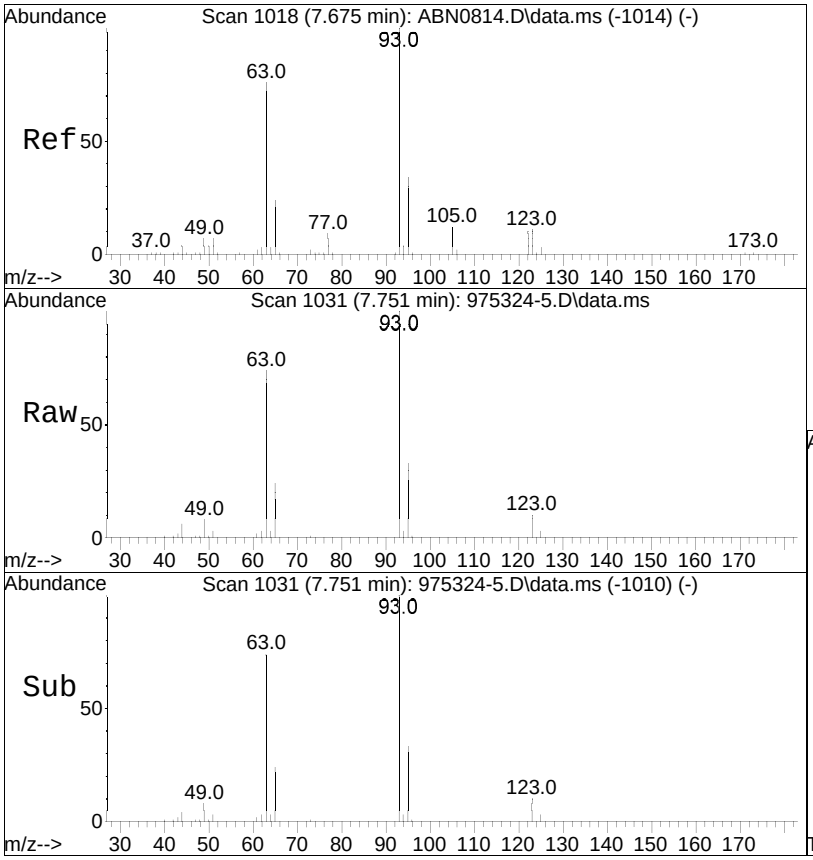


#23
2,4-Dimethylphenol
Concen: 1.20 ug/ml
RT: 7.657 min Scan# 1015
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:107 Resp: 7538

Ion	Ratio	Lower	Upper
107	100		
121	49.4	40.0	60.0
122	79.9	70.2	105.4

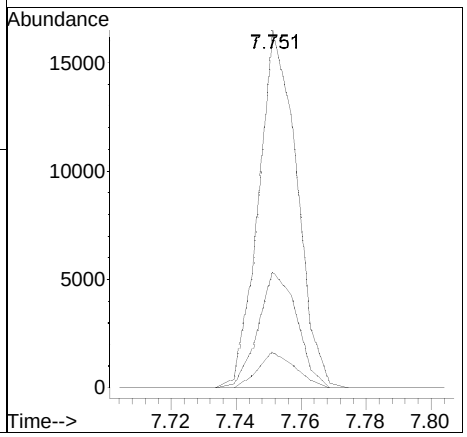


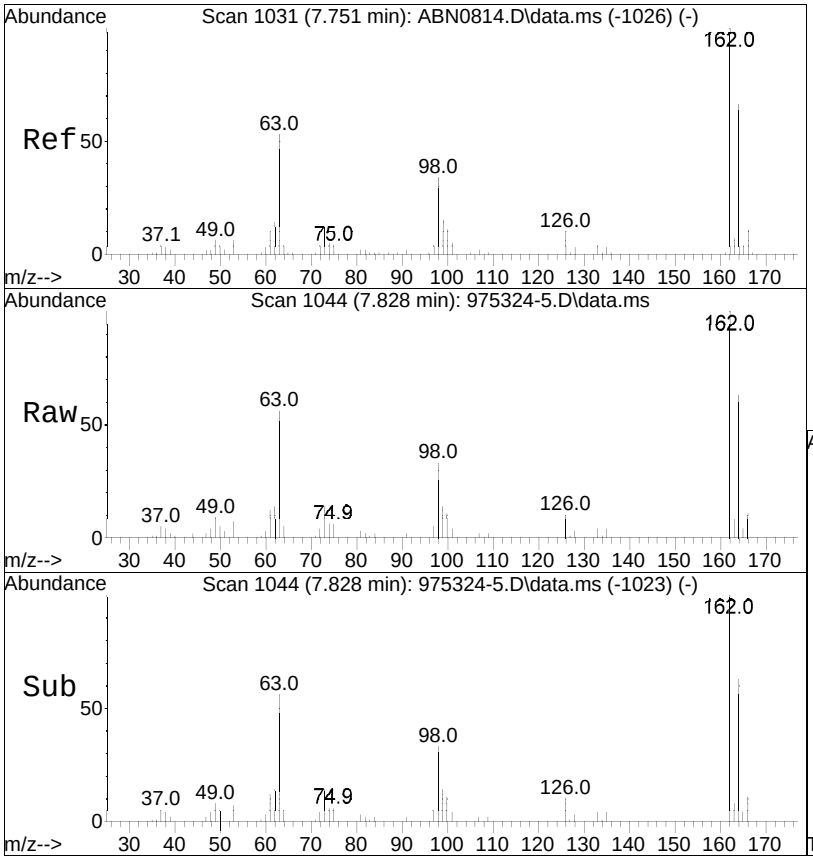


#24
Bis(2-chloroethoxy)methane
Concen: 1.44 ug/ml
RT: 7.751 min Scan# 1031
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion: 93 Resp: 13331

Ion	Ratio	Lower	Upper
93	100		
95	33.1	25.8	38.8
123	9.8	10.1	15.1#

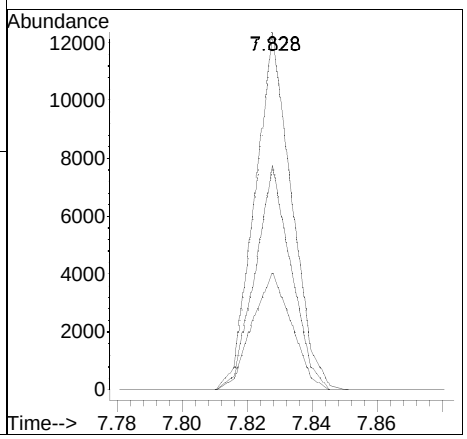


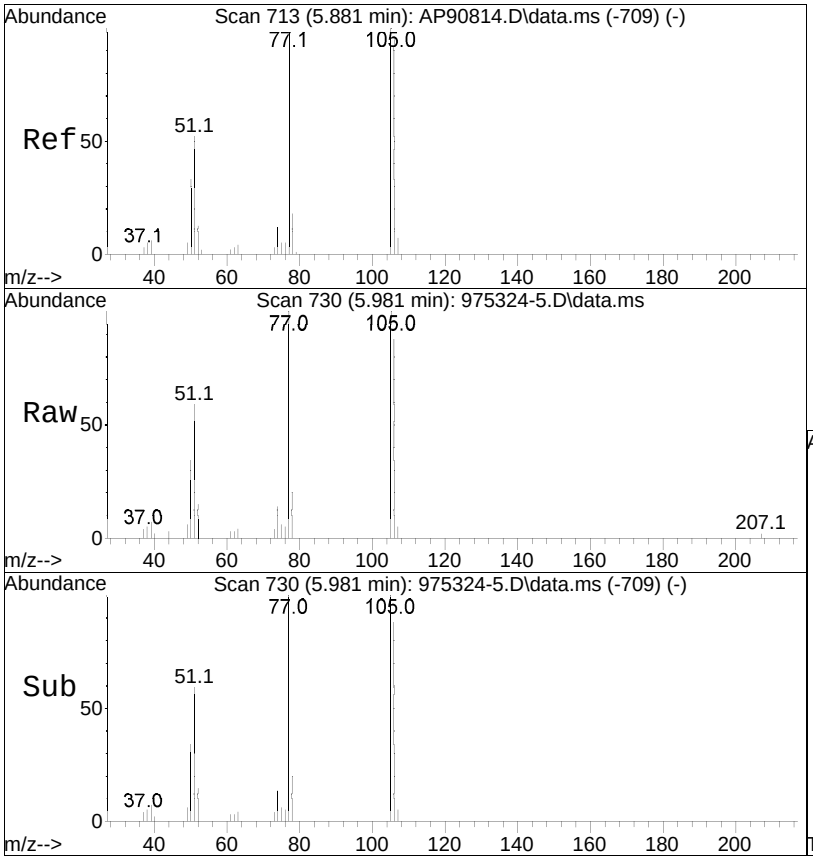


#25
2,4-Dichlorophenol
Concen: 1.41 ug/ml
RT: 7.828 min Scan# 1044
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:162 Resp: 9667

Ion	Ratio	Lower	Upper
162	100		
164	61.4	51.0	76.4
98	34.9	32.2	48.2

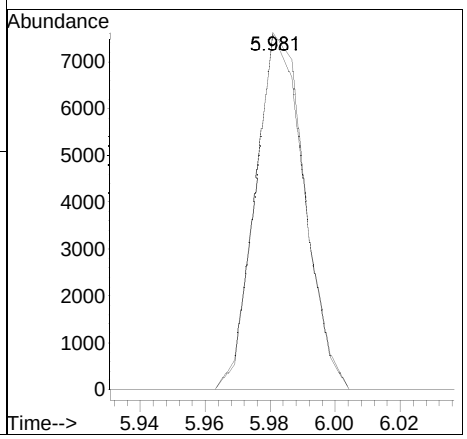


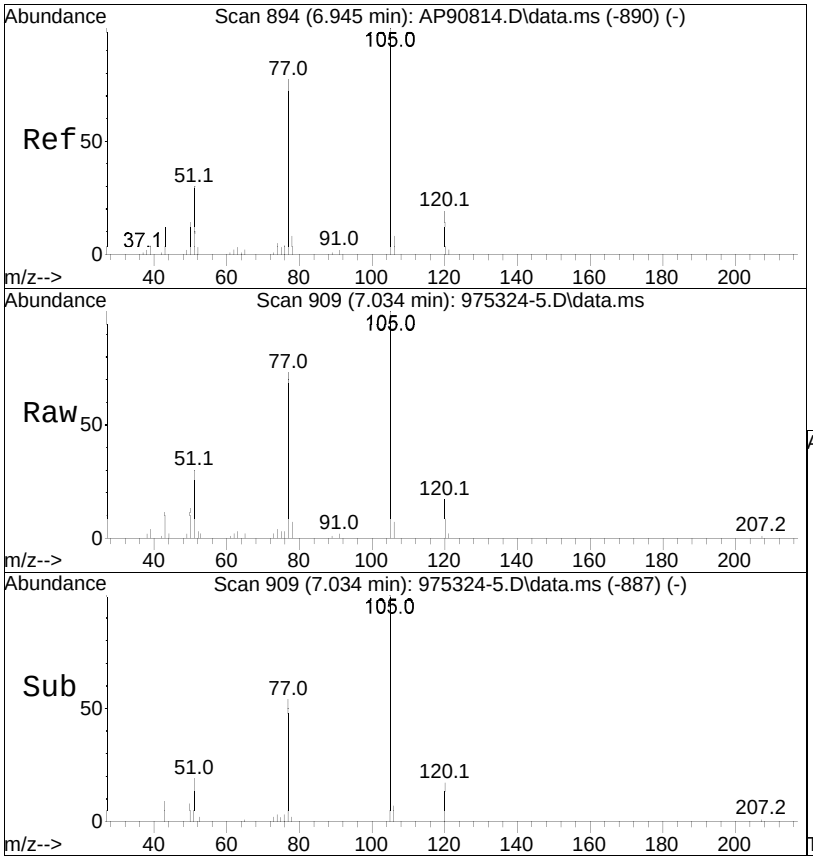


#28
Benzaldehyde
Concen: 1.20 ug/ml
RT: 5.981 min Scan# 730
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:105 Resp: 7979

Ion	Ratio	Lower	Upper
105	100		
77	99.4	82.2	123.4

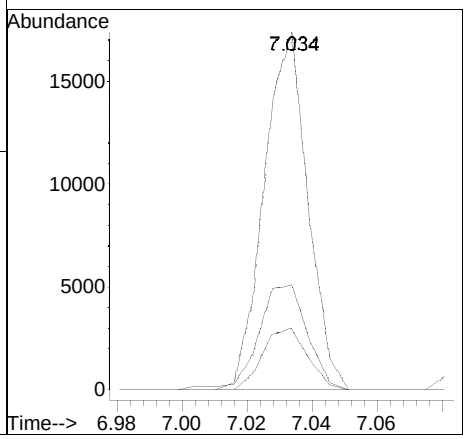


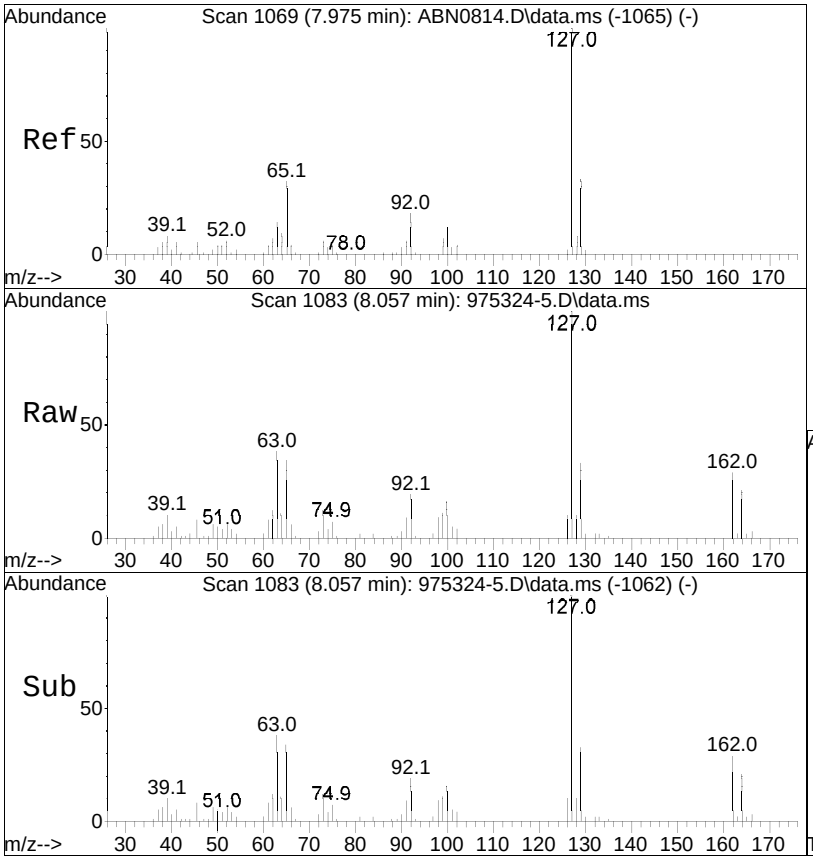


#29
Acetophenone
Concen: 1.36 ug/ml
RT: 7.034 min Scan# 909
Delta R.T. 0.006 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:105 Resp: 16058

Ion	Ratio	Lower	Upper
105	100		
120	17.8	20.5	30.7#
51	33.0	34.9	52.3#

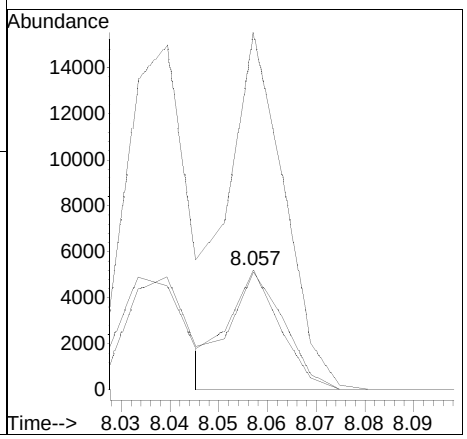


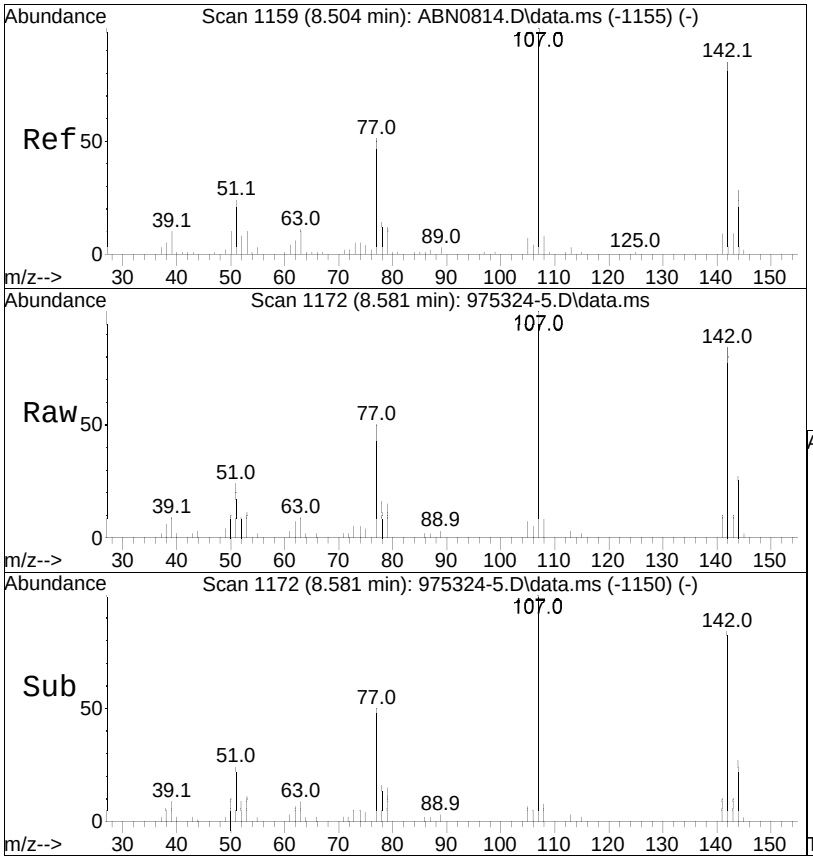


#38
4-Chloroaniline
Concen: 1.42 ug/ml
RT: 8.057 min Scan# 1083
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion: 65 Resp: 3812

Ion	Ratio	Lower	Upper
65	100		
127	318.0	237.6	356.4
129	82.8	76.3	114.5

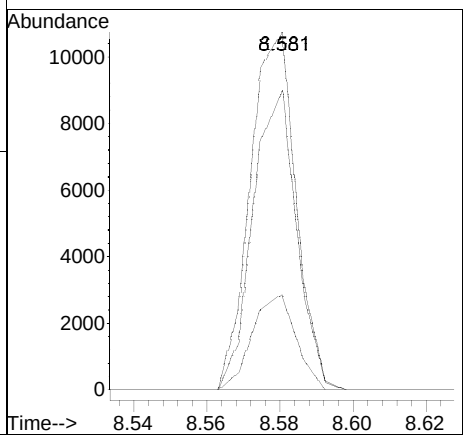


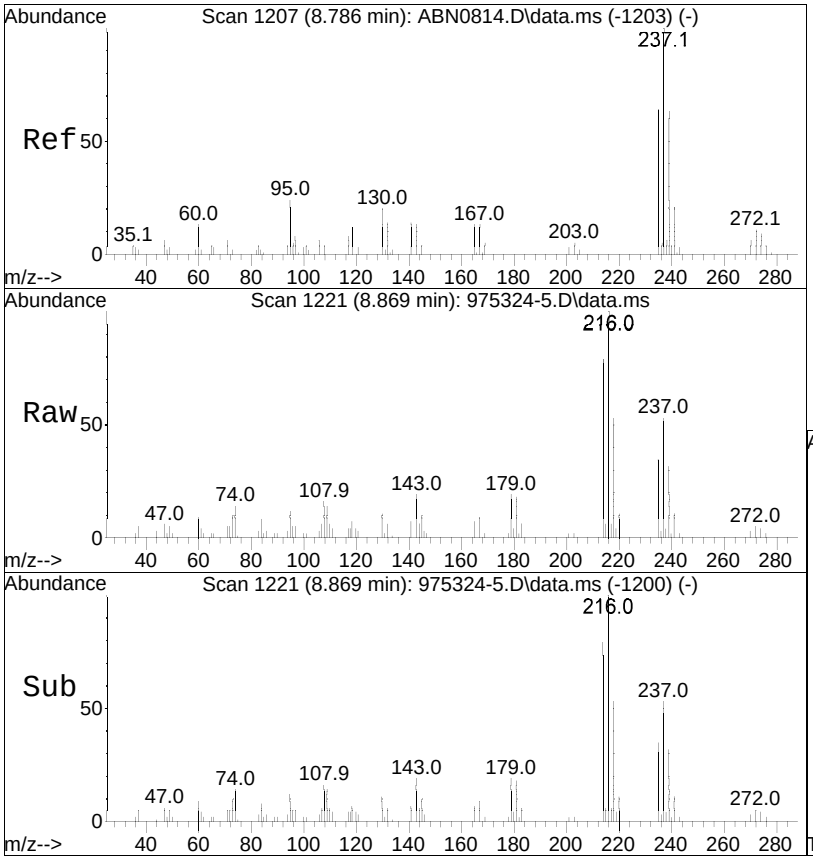


#40
p-Chloro-m-cresol
Concen: 1.54 ug/ml
RT: 8.581 min Scan# 1172
Delta R.T. 0.006 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:107 Resp: 9258

Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.9	31.3
142	80.1	66.1	99.1

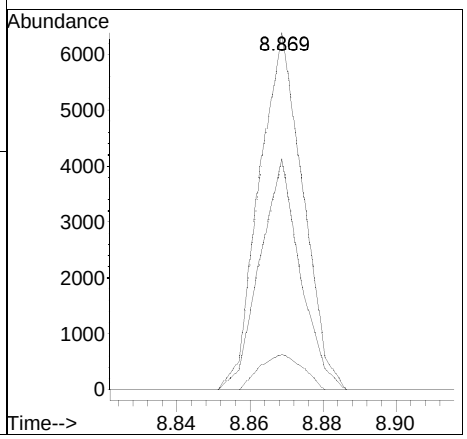


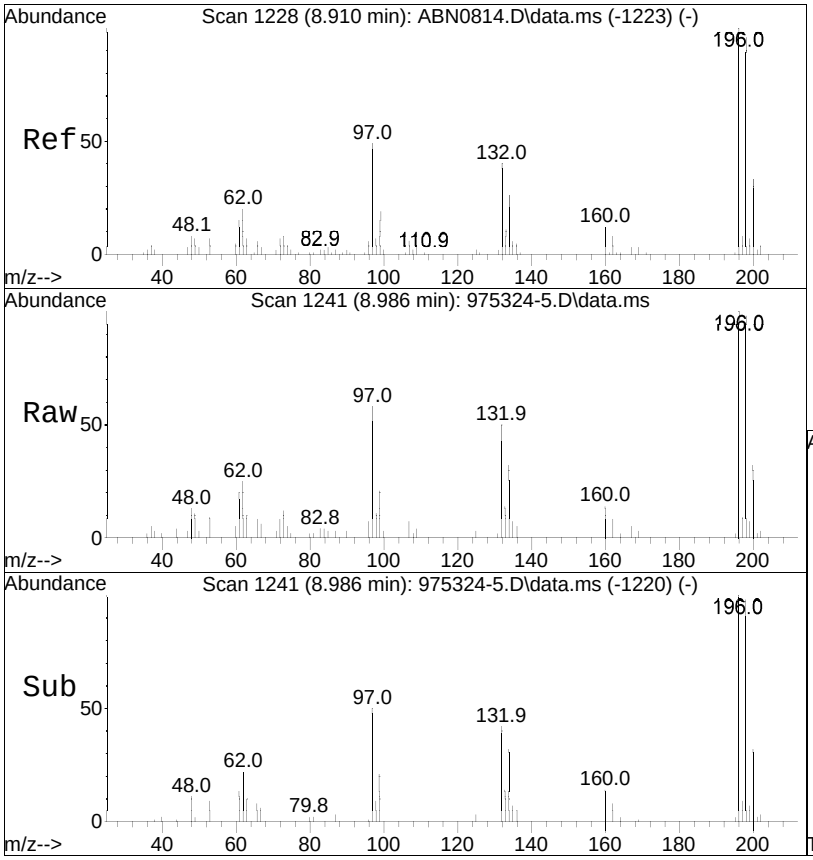


#43
Hexachlorocyclopentadiene
Concen: 1.17 ug/ml
RT: 8.869 min Scan# 1221
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:237 Resp: 5259

Ion	Ratio	Lower	Upper
237	100		
235	60.0	49.7	74.5
272	9.9	9.8	14.6

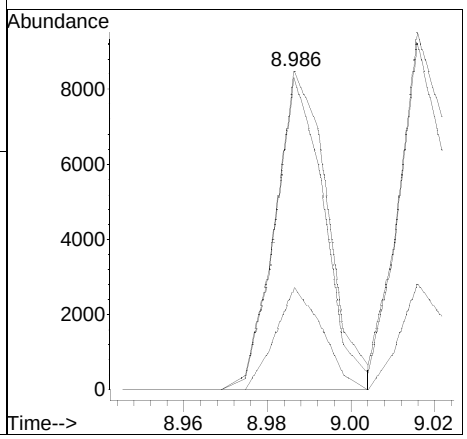


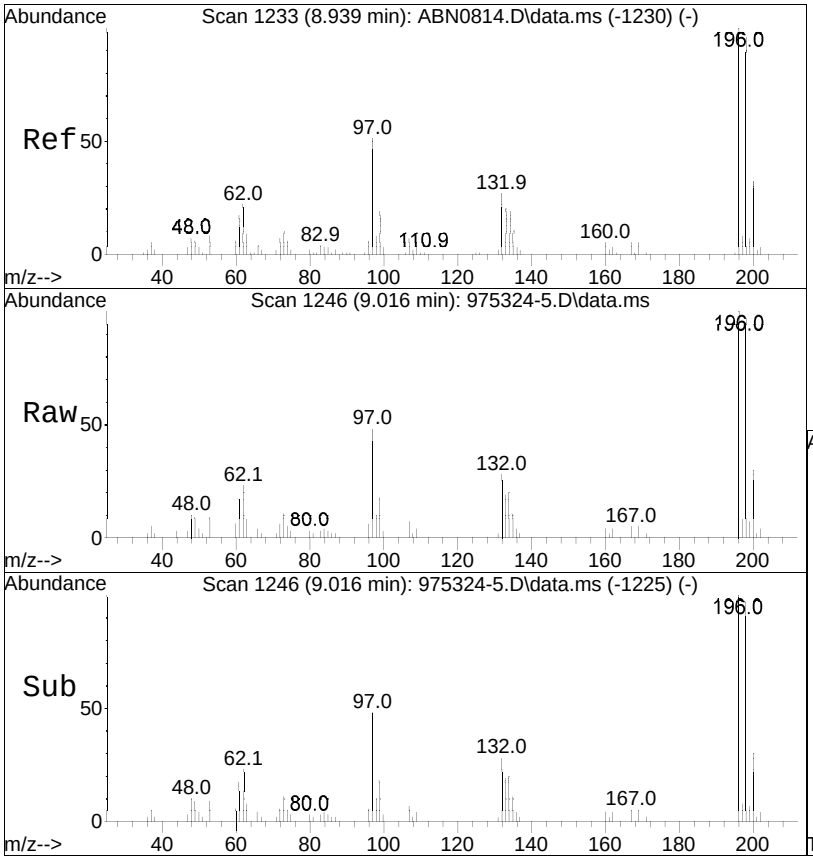


#44
2,4,6-Trichlorophenol
Concen: 1.51 ug/ml
RT: 8.986 min Scan# 1241
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:196 Resp: 7478

Ion	Ratio	Lower	Upper
196	100		
198	91.2	77.5	116.3
200	28.4	23.8	35.6

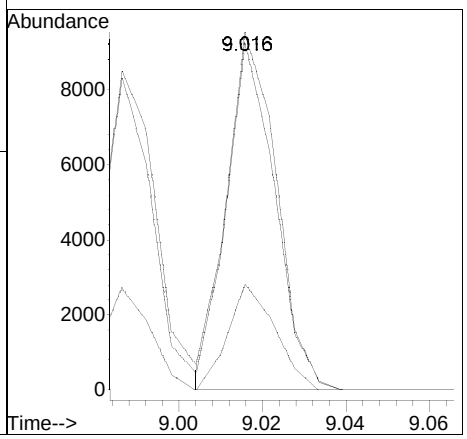


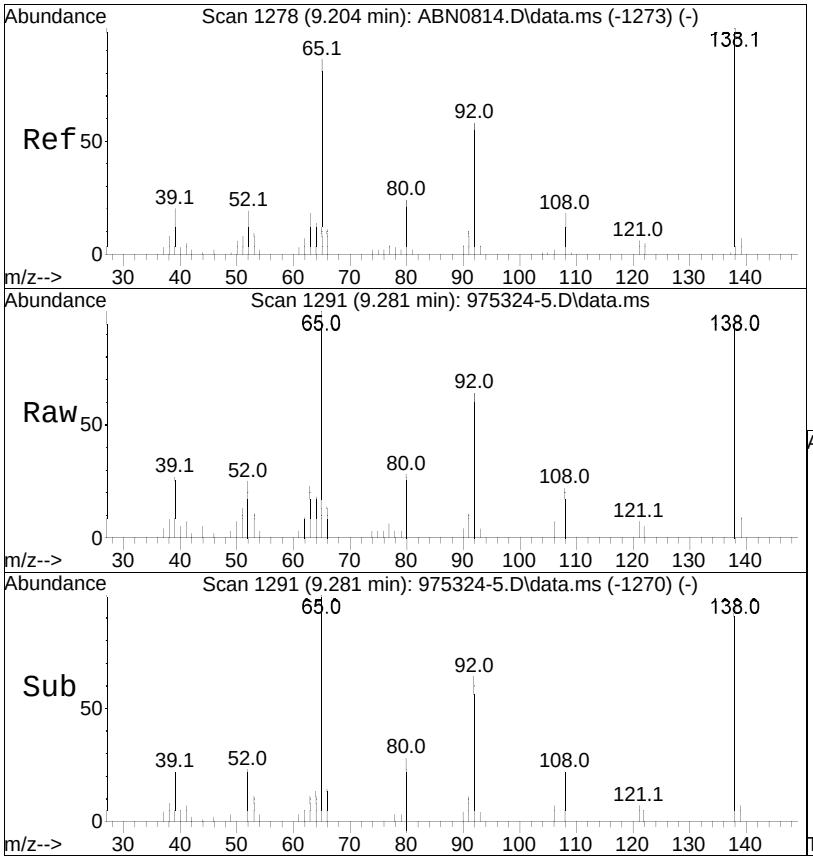


#45
2,4,5-Trichlorophenol
Concen: 1.49 ug/ml
RT: 9.016 min Scan# 1246
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:196 Resp: 7834

Ion	Ratio	Lower	Upper
196	100		
200	28.2	25.4	38.0
198	94.0	78.0	117.0

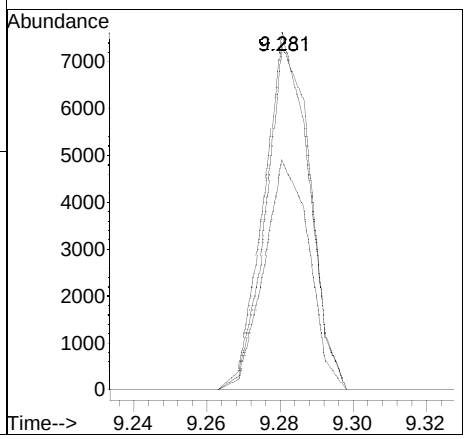


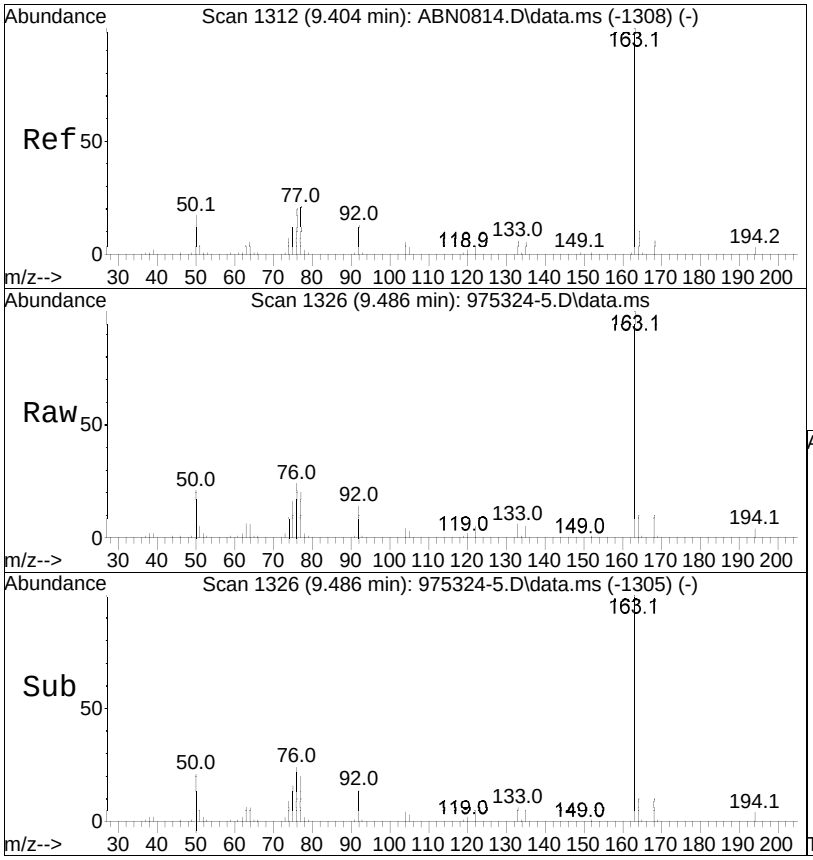


#48
2-Nitroaniline
Concen: 1.43 ug/ml
RT: 9.281 min Scan# 1291
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:138 Resp: 6186

Ion	Ratio	Lower	Upper
138	100		
92	67.3	53.5	80.3
65	104.0	86.3	129.5

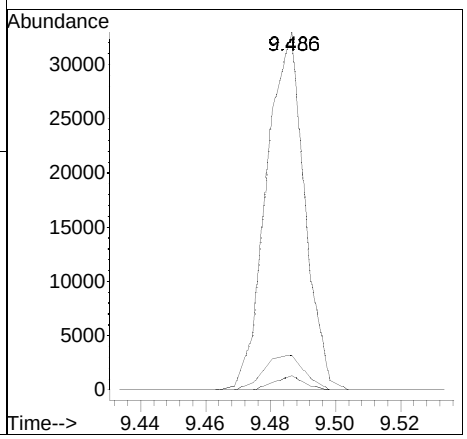


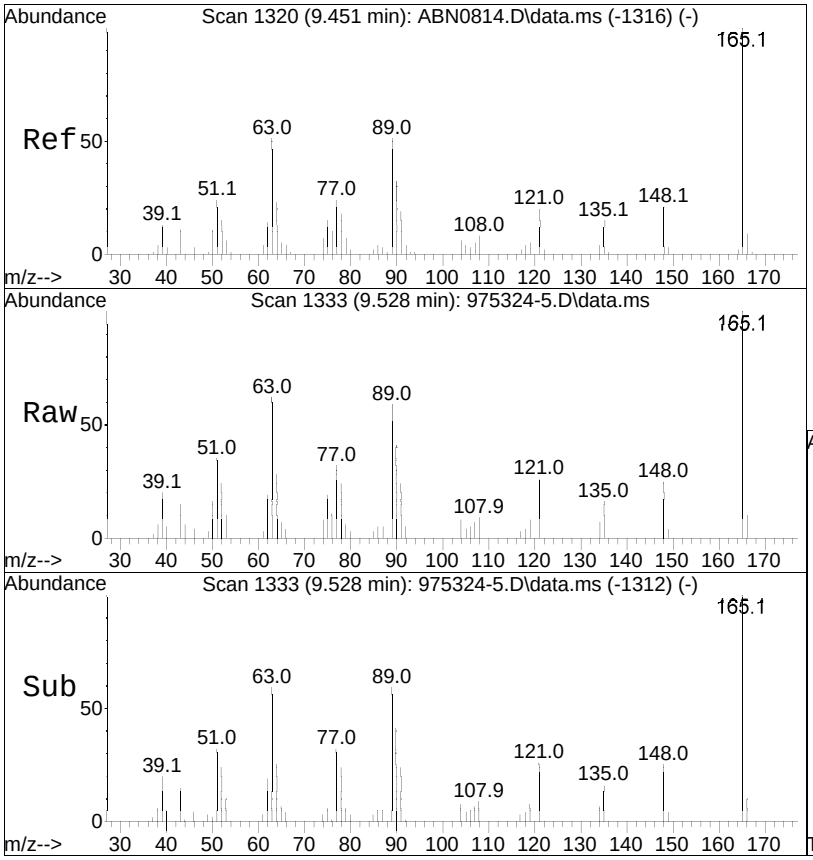


#51
Dimethyl phthalate
Concen: 1.45 ug/ml
RT: 9.486 min Scan# 1326
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:163 Resp: 26561

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.4	7.9	11.9

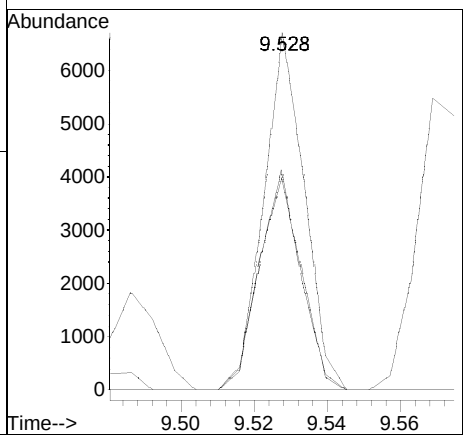


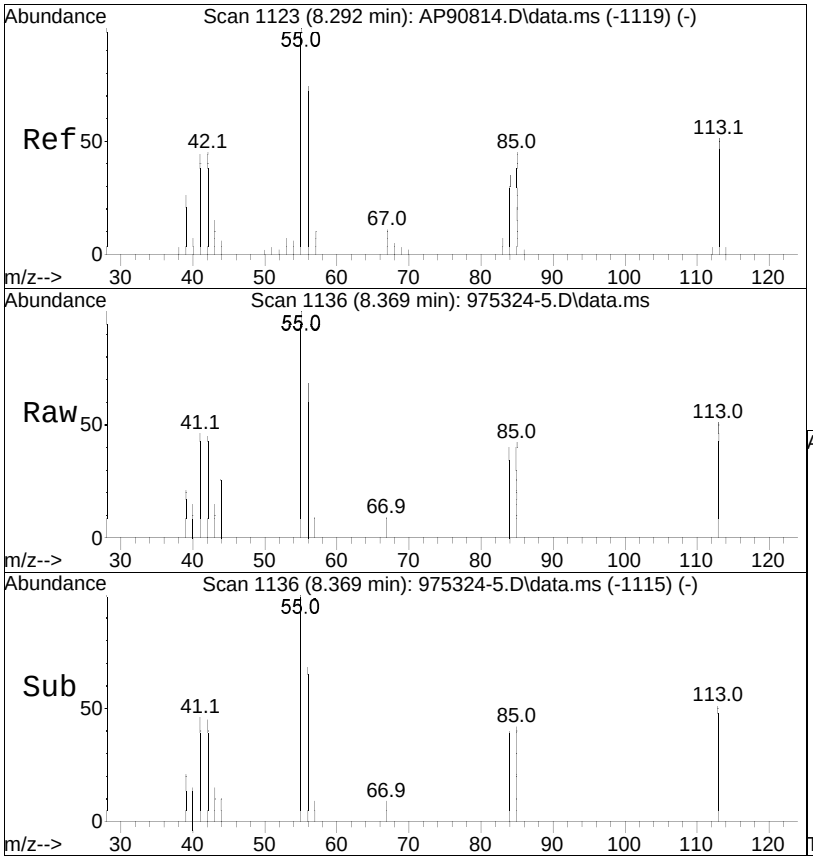


#53
2,6-Dinitrotoluene
Concen: 1.45 ug/ml
RT: 9.528 min Scan# 1333
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:165 Resp: 5177

Ion	Ratio	Lower	Upper
165	100		
89	62.8	54.2	81.2
63	62.5	64.2	96.2#

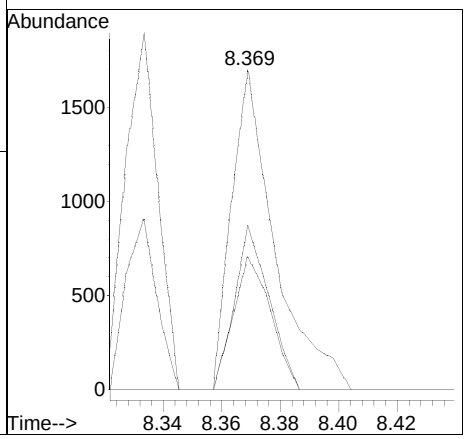


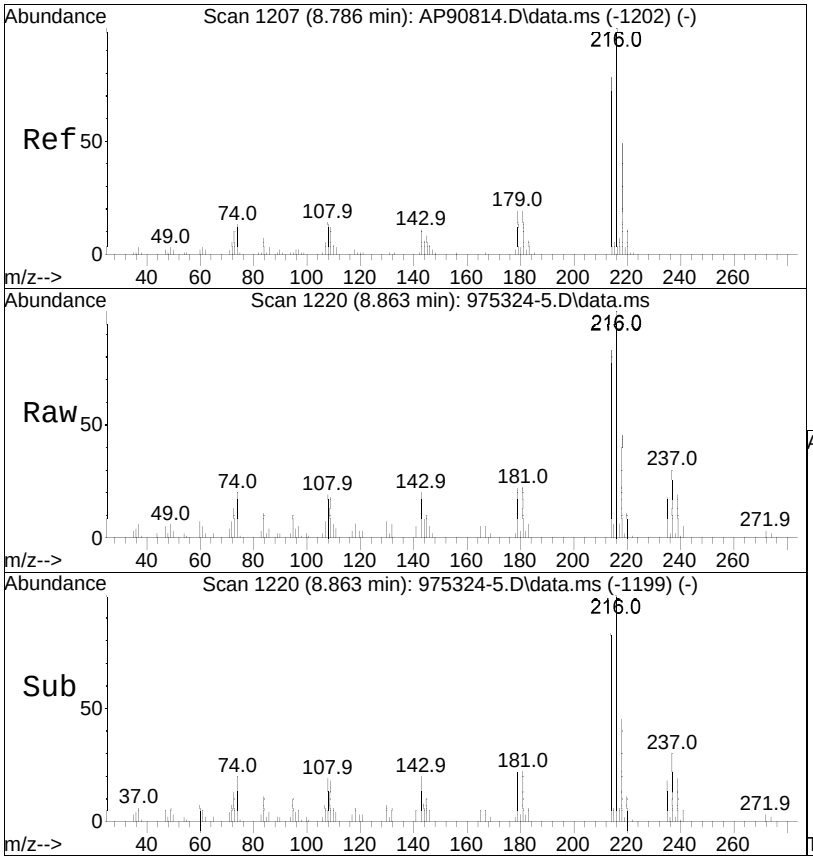


#60
Caprolactam
Concen: 1.02 ug/ml
RT: 8.369 min Scan# 1136
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion: 55 Resp: 1745

Ion	Ratio	Lower	Upper
55	100		
85	35.8	19.8	29.6#
113	41.0	29.6	44.4

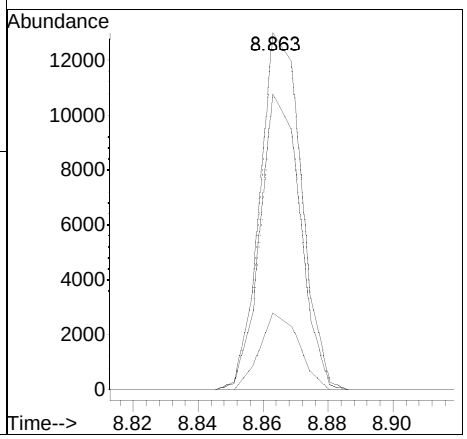


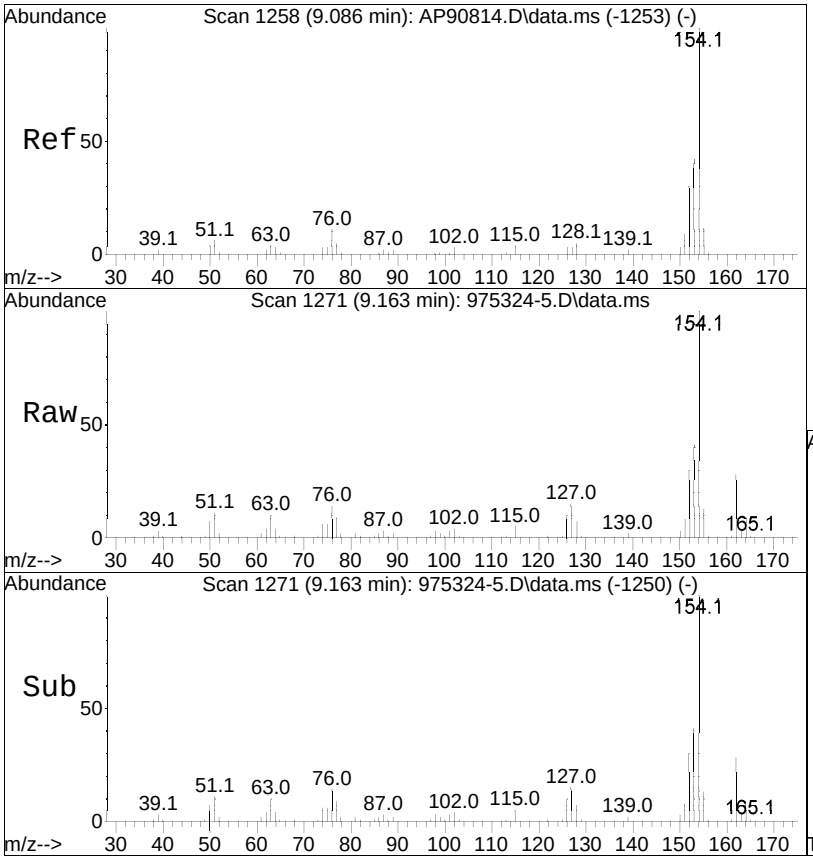


#61
1,2,4,5-Tetrachlorobenzene
Concen: 1.22 ug/ml
RT: 8.863 min Scan# 1220
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:216 Resp: 11459

Ion	Ratio	Lower	Upper
216	100		
214	80.2	63.7	95.5
179	20.5	19.0	28.6

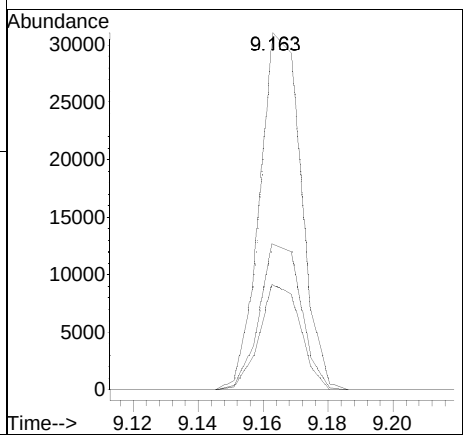


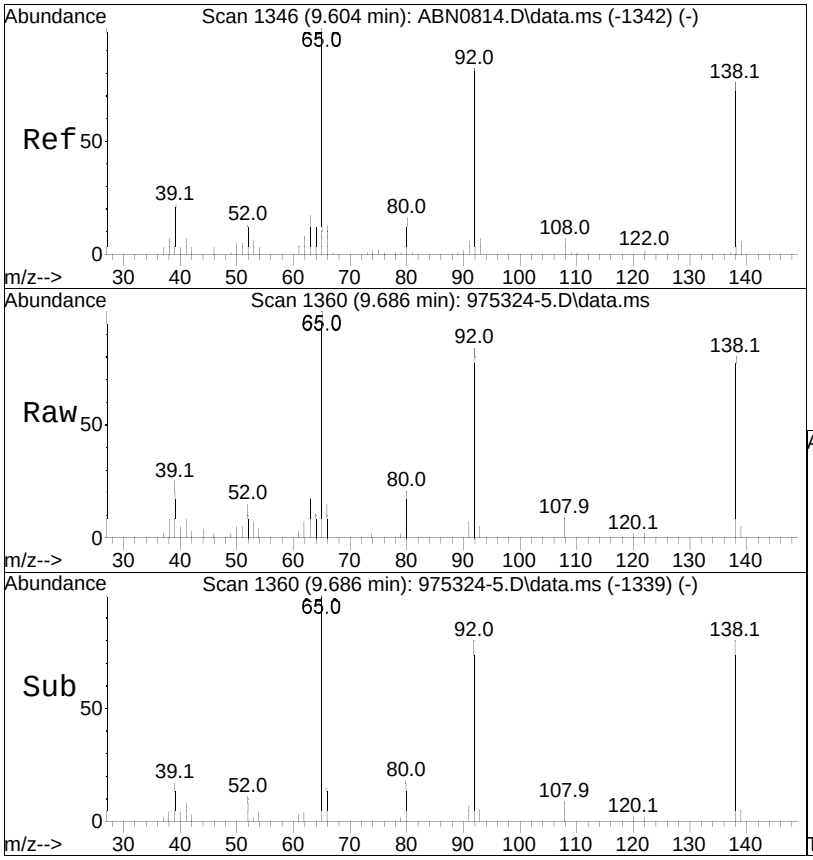


#62
Biphenyl
Concen: 1.24 ug/ml
RT: 9.163 min Scan# 1271
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:154 Resp: 27315

Ion	Ratio	Lower	Upper
154	100		
153	41.2	32.3	48.5
152	29.3	22.5	33.7

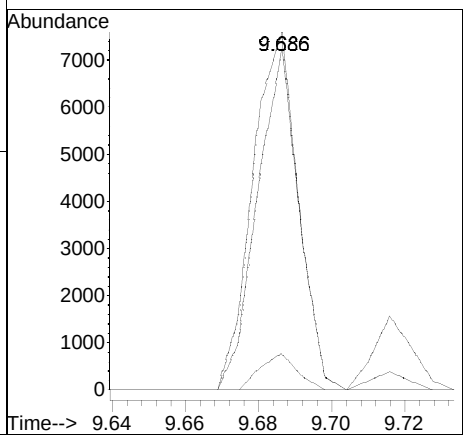


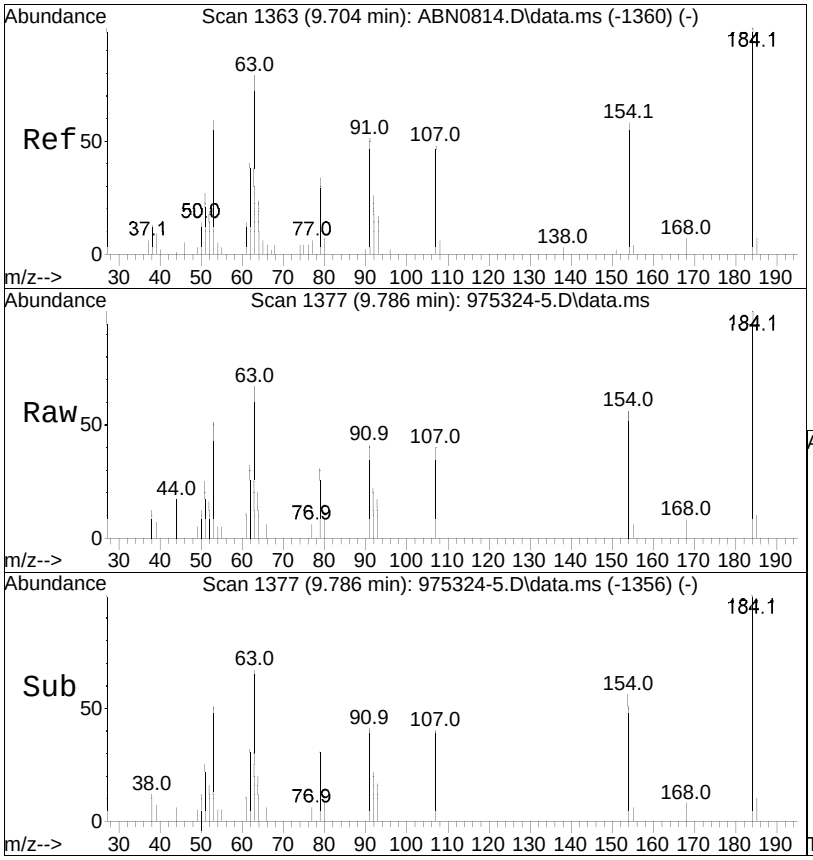


#64
3-Nitroaniline
Concen: 1.40 ug/ml
RT: 9.686 min Scan# 1360
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:138 Resp: 5680

Ion	Ratio	Lower	Upper
138	100		
92	114.4	93.4	140.2
108	9.5	9.5	14.3#

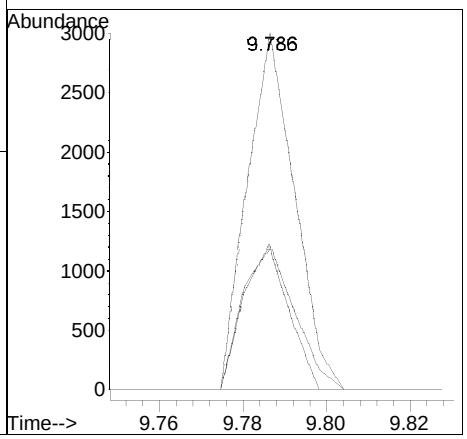


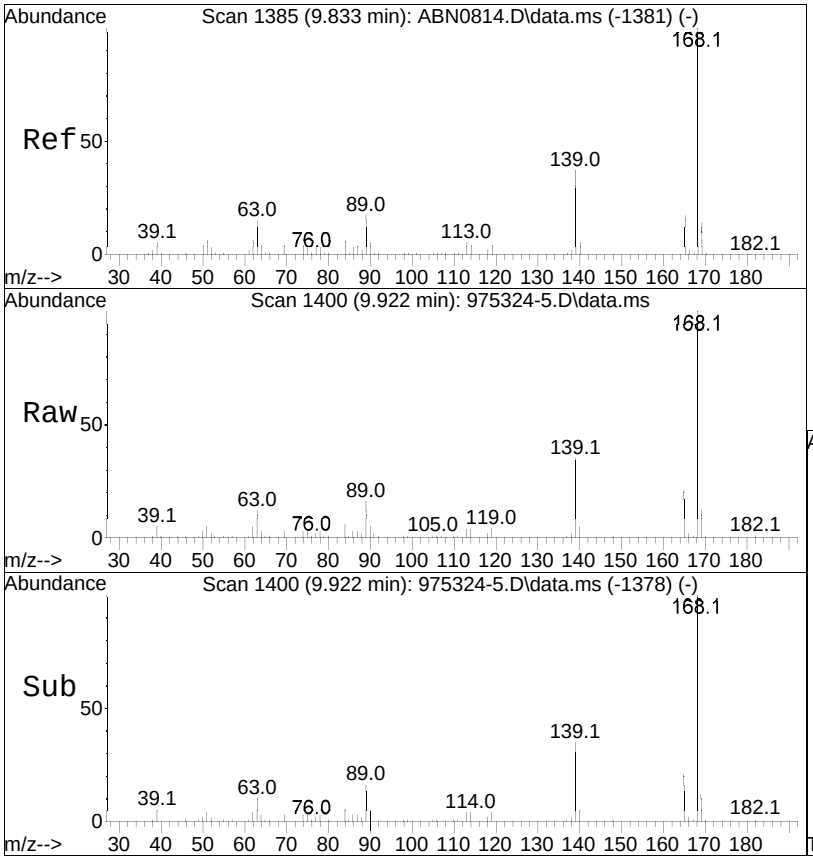


#66
2,4-Dinitrophenol
Concen: 1.77 ug/ml
RT: 9.786 min Scan# 1377
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:184 Resp: 2339

Ion	Ratio	Lower	Upper
184	100		
107	39.2	37.7	56.5
91	43.7	46.3	69.5#

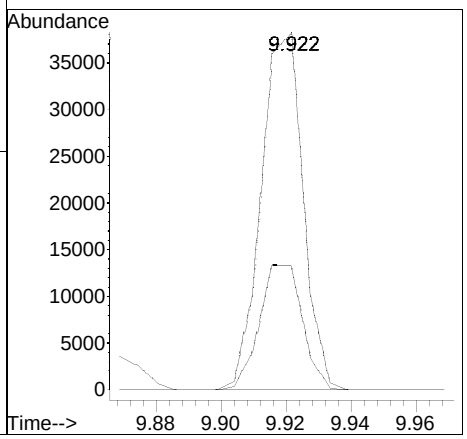


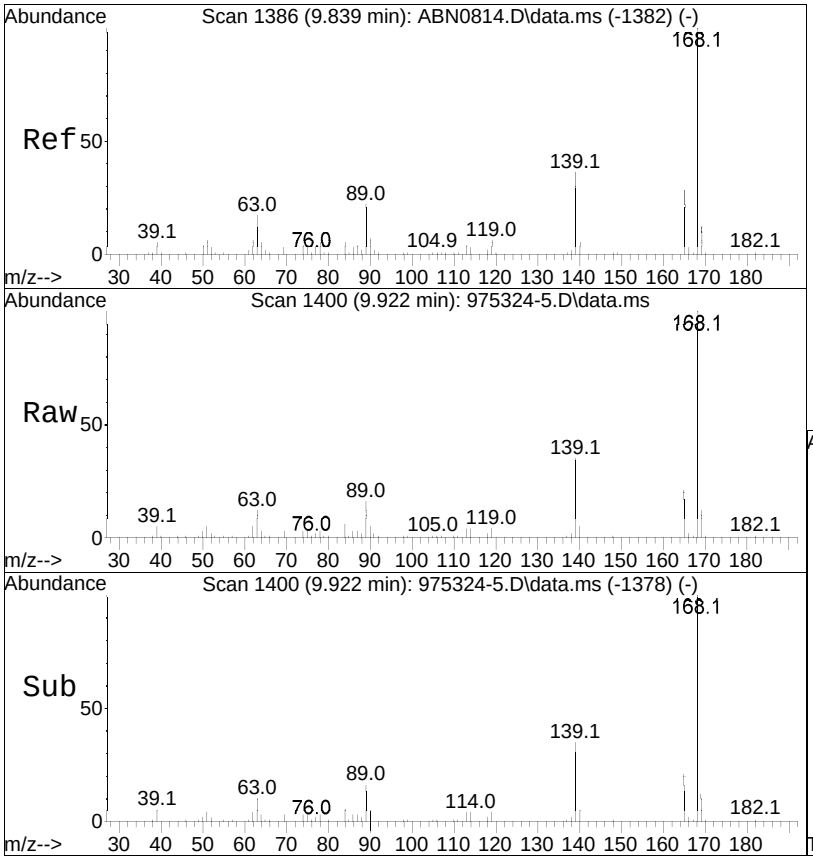


#67
Dibenzofuran
Concen: 1.43 ug/ml
RT: 9.922 min Scan# 1400
Delta R.T. 0.006 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:168 Resp: 33911

Ion	Ratio	Lower	Upper
168	100		
139	36.3	31.4	47.2

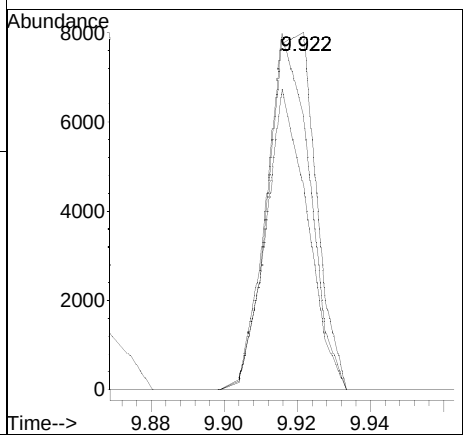


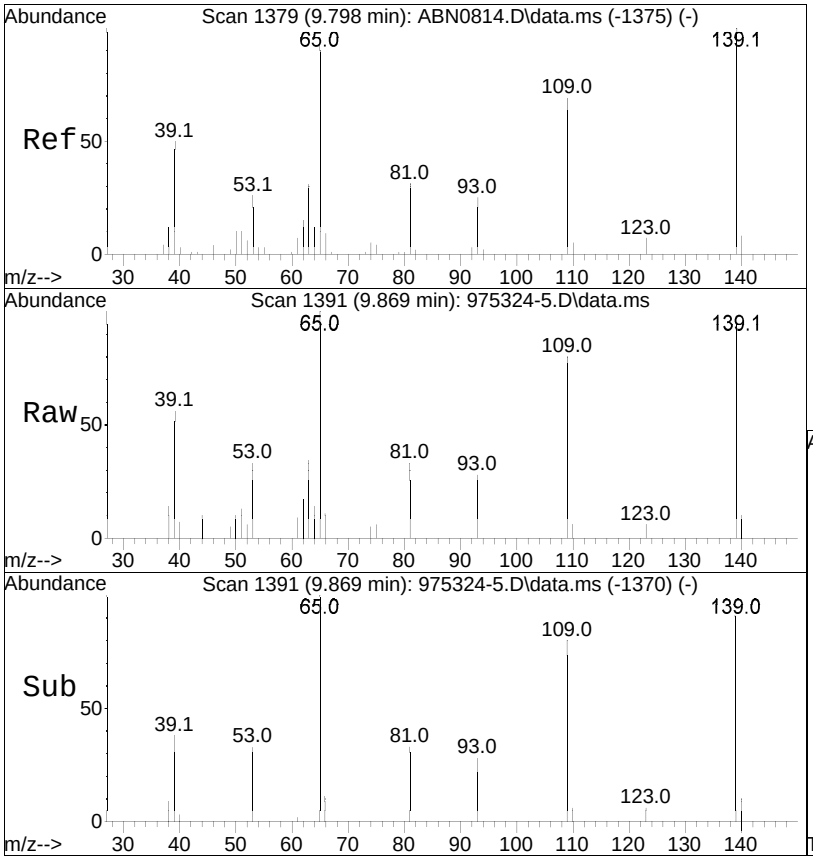


#68
2,4-Dinitrotoluene
Concen: 1.40 ug/ml
RT: 9.922 min Scan# 1400
Delta R.T. 0.006 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:165 Resp: 7198

Ion	Ratio	Lower	Upper
165	100		
89	90.3	72.0	108.0
63	73.4	52.7	79.1

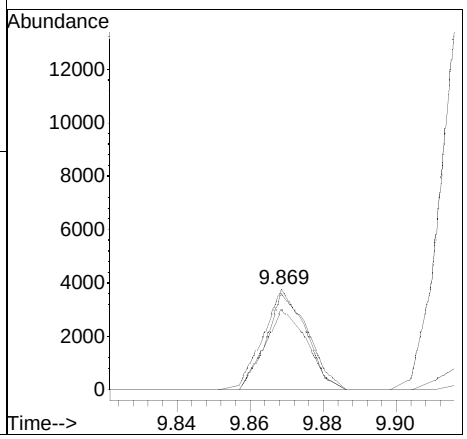


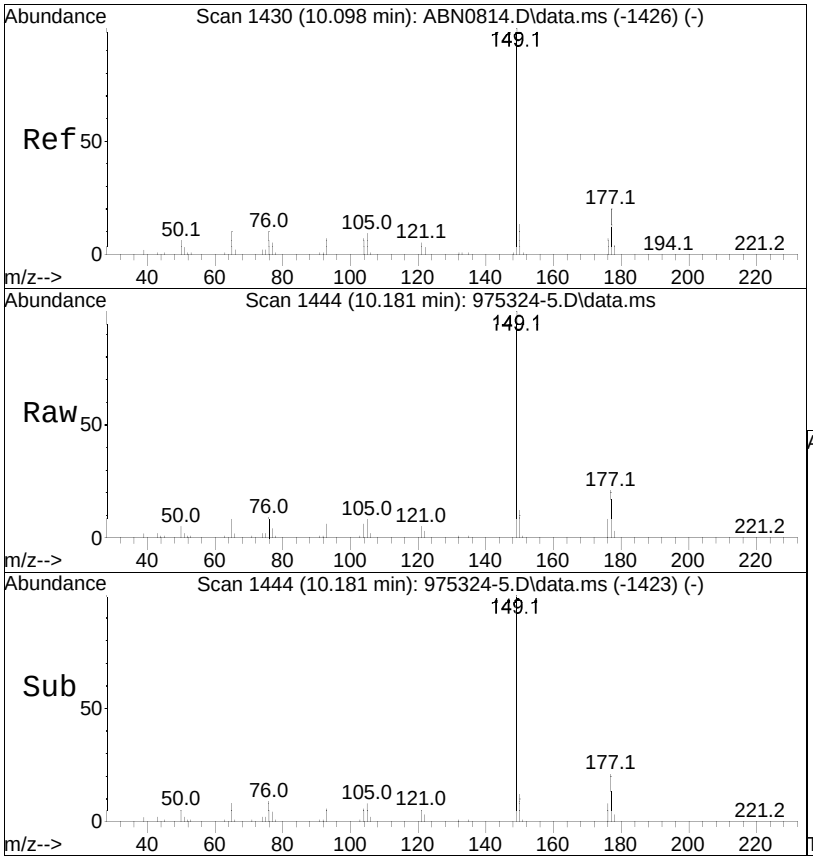


#69
4-Nitrophenol
Concen: 0.95 ug/ml
RT: 9.869 min Scan# 1391
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion: 65 Resp: 3028

Ion	Ratio	Lower	Upper
65	100		
109	80.4	47.4	71.2#
139	94.7	76.6	115.0

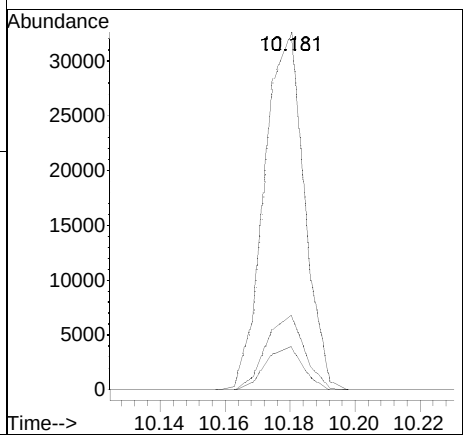


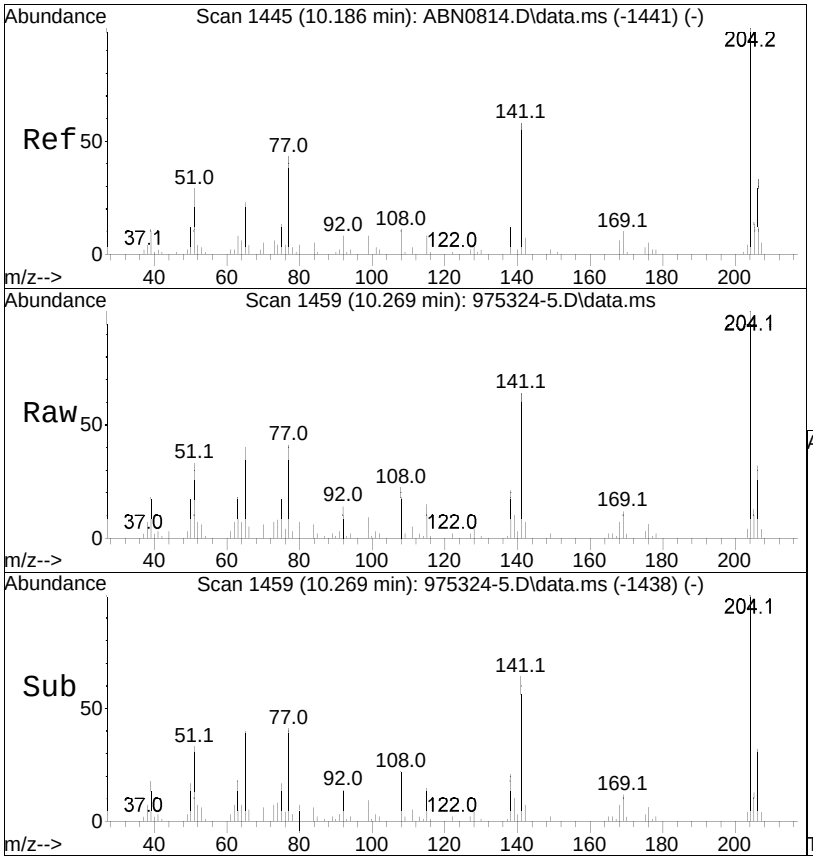


#72
Diethyl phthalate
Concen: 1.65 ug/ml
RT: 10.181 min Scan# 1444
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:149 Resp: 27620

Ion	Ratio	Lower	Upper
149	100		
177	20.3	16.1	24.1
150	11.5	9.4	14.2

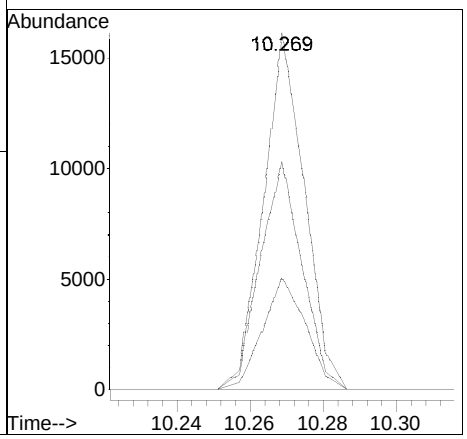


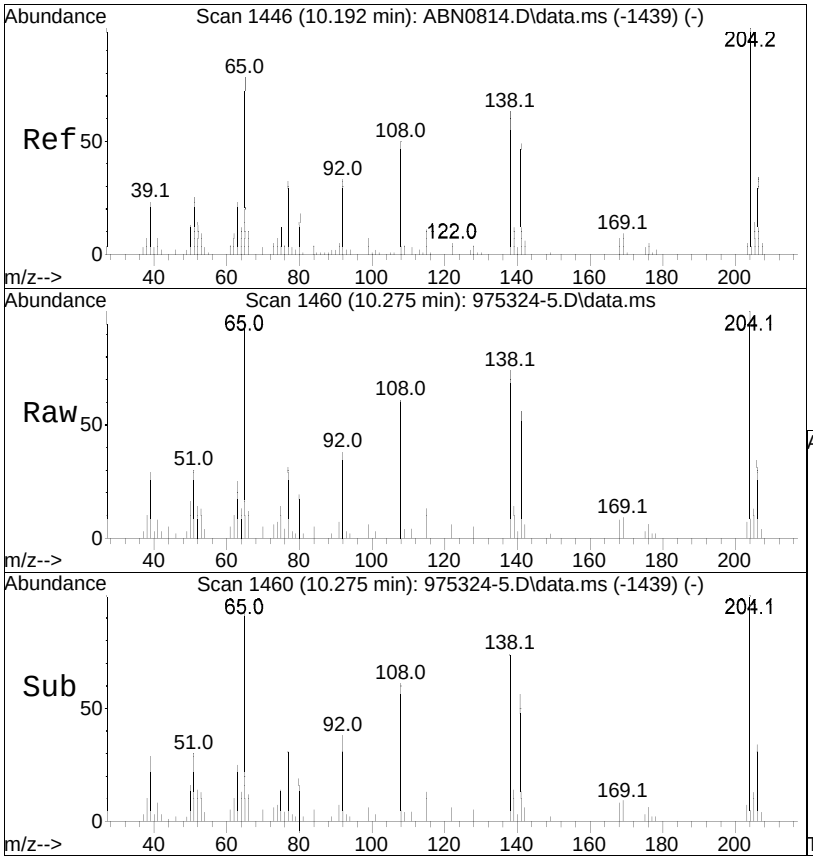


#74
4-Chlorophenyl phenyl ether
Concen: 1.38 ug/ml
RT: 10.269 min Scan# 1459
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:204 Resp: 12472

Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	65.2	53.6	80.4

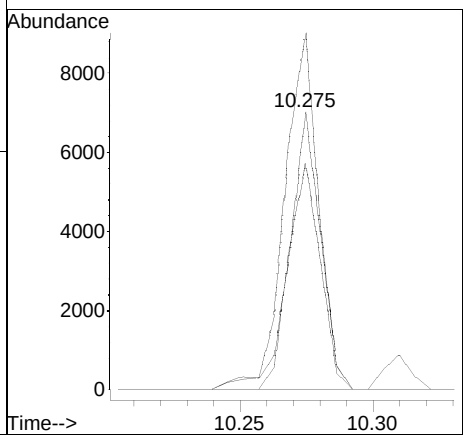


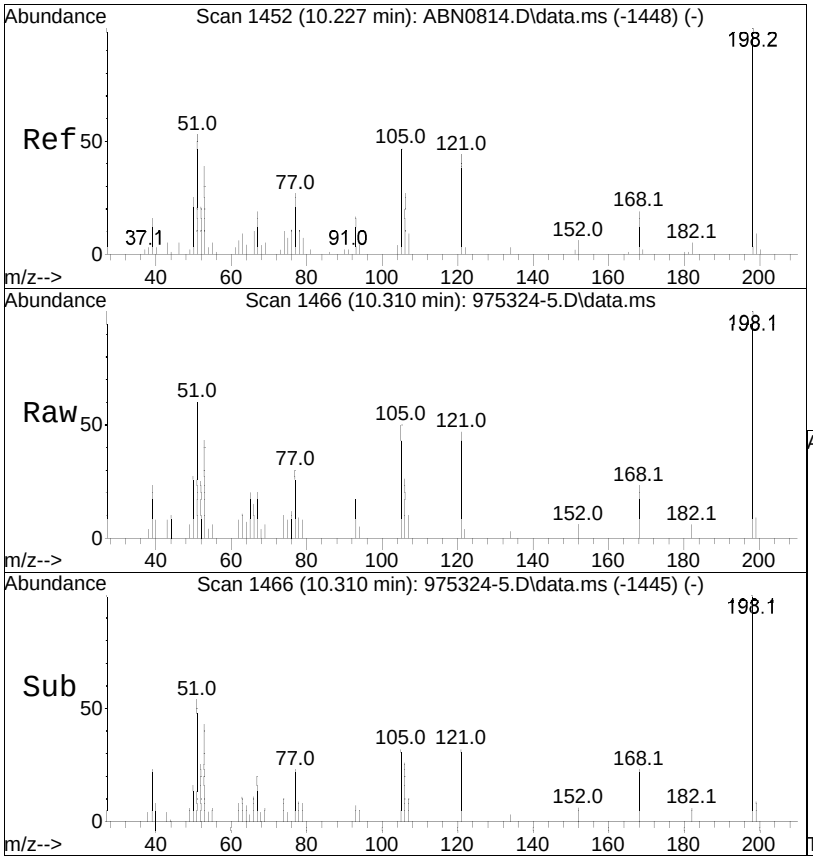


#75
4-Nitroaniline
Concen: 1.44 ug/ml
RT: 10.275 min Scan# 1460
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:138 Resp: 5823

Ion	Ratio	Lower	Upper
138	100		
108	81.6	52.1	78.1#
65	136.7	115.0	172.6

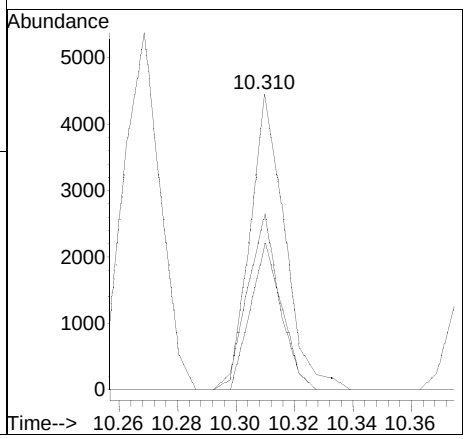


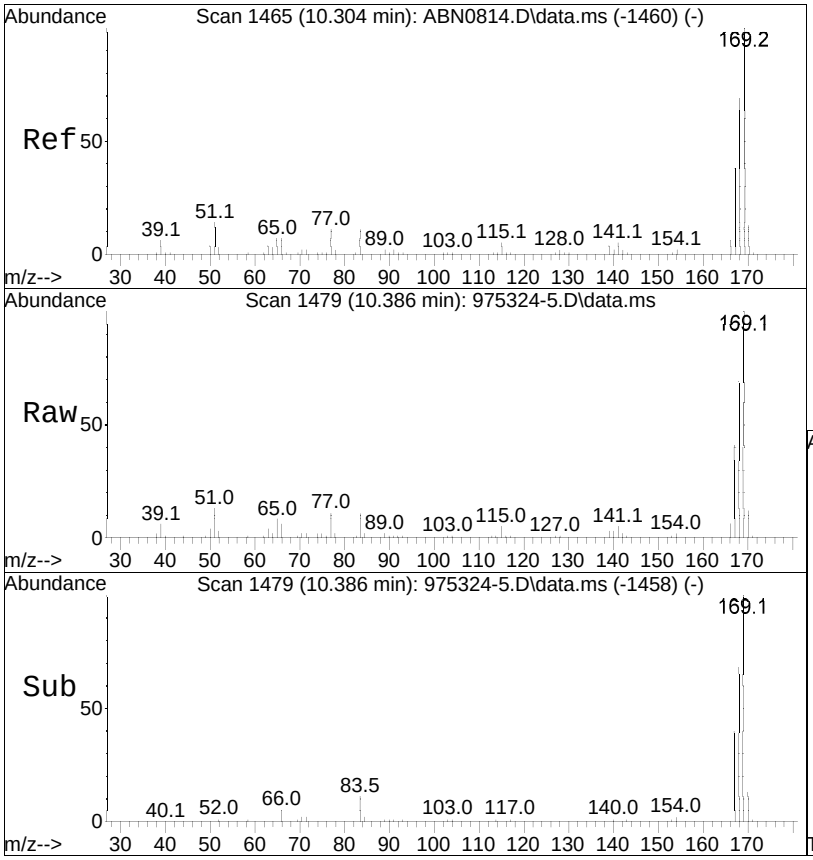


#76
4,6-Dinitro-o-cresol
Concen: 1.54 ug/ml
RT: 10.310 min Scan# 1466
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:198 Resp: 3676

Ion	Ratio	Lower	Upper
198	100		
51	55.3	76.0	114.0#
105	45.5	45.6	68.4#

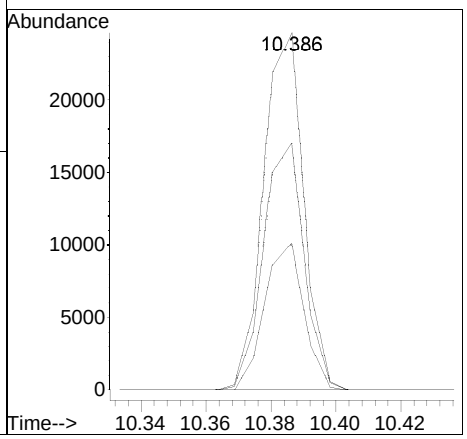


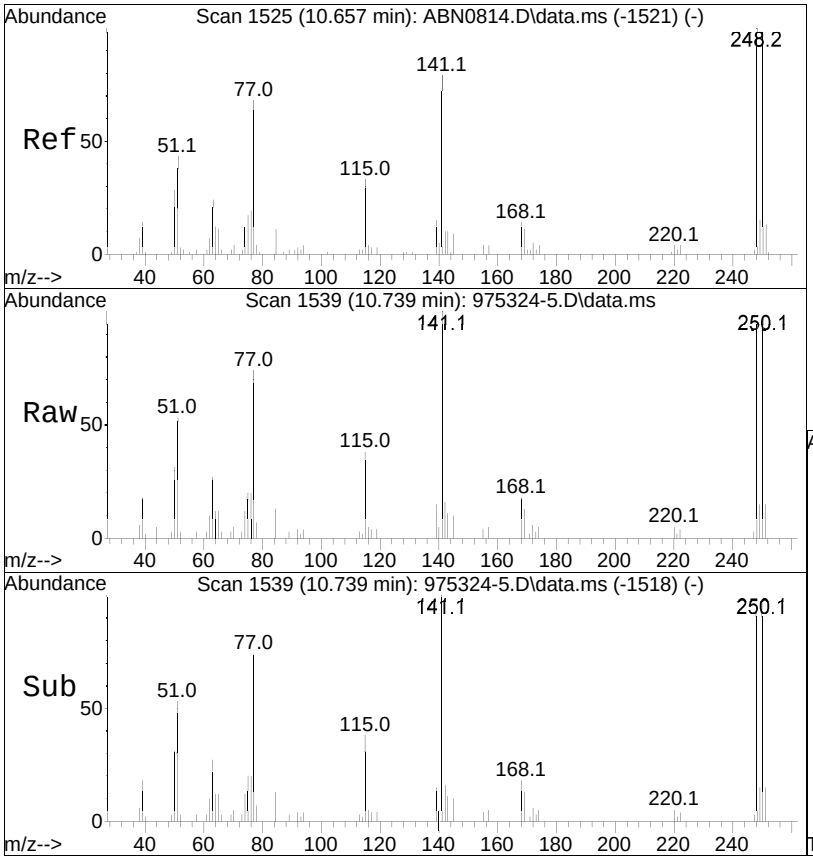


#77
NDPA/DPA
Concen: 1.43 ug/ml
RT: 10.386 min Scan# 1479
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:169 Resp: 21058

Ion	Ratio	Lower	Upper
169	100		
168	70.2	54.0	81.0
167	40.5	28.6	42.8

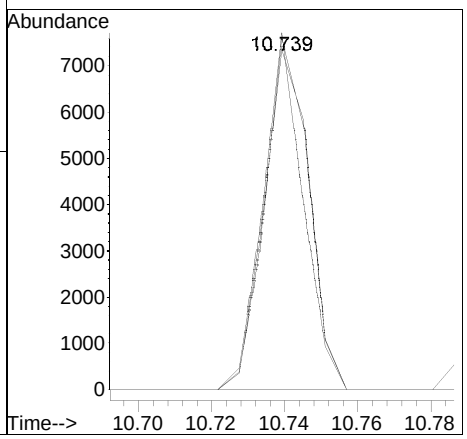


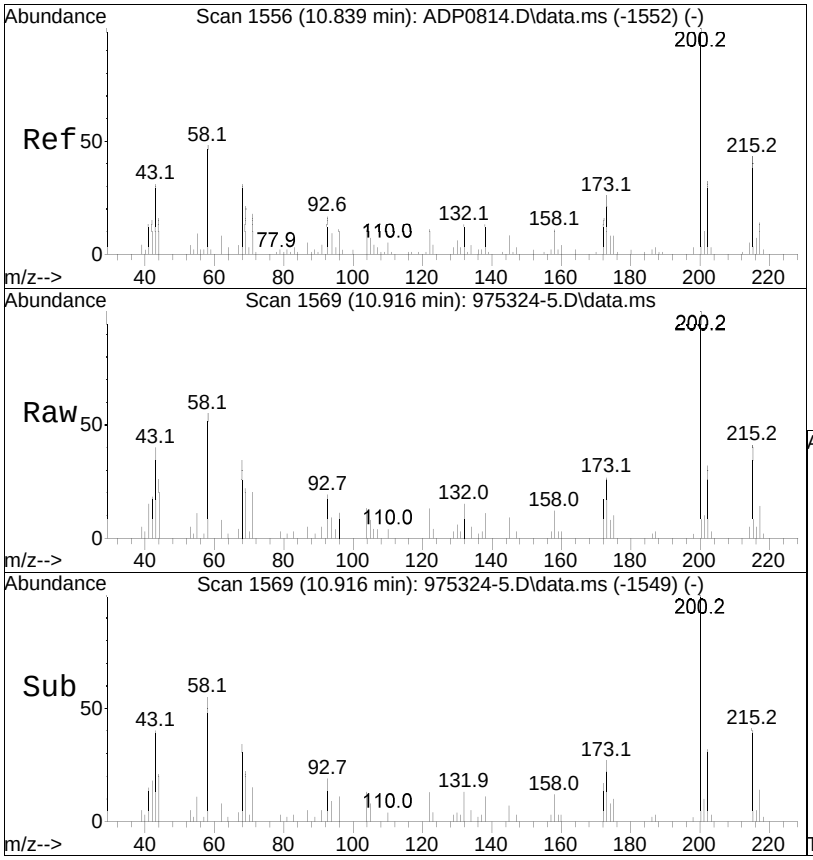


#80
4-Bromophenyl phenyl ether
Concen: 1.30 ug/ml
RT: 10.739 min Scan# 1539
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:248 Resp: 6303

Ion	Ratio	Lower	Upper
248	100		
141	92.7	76.6	114.8
250	99.4	77.3	115.9

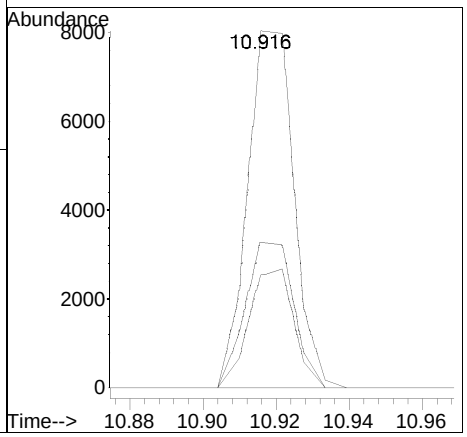


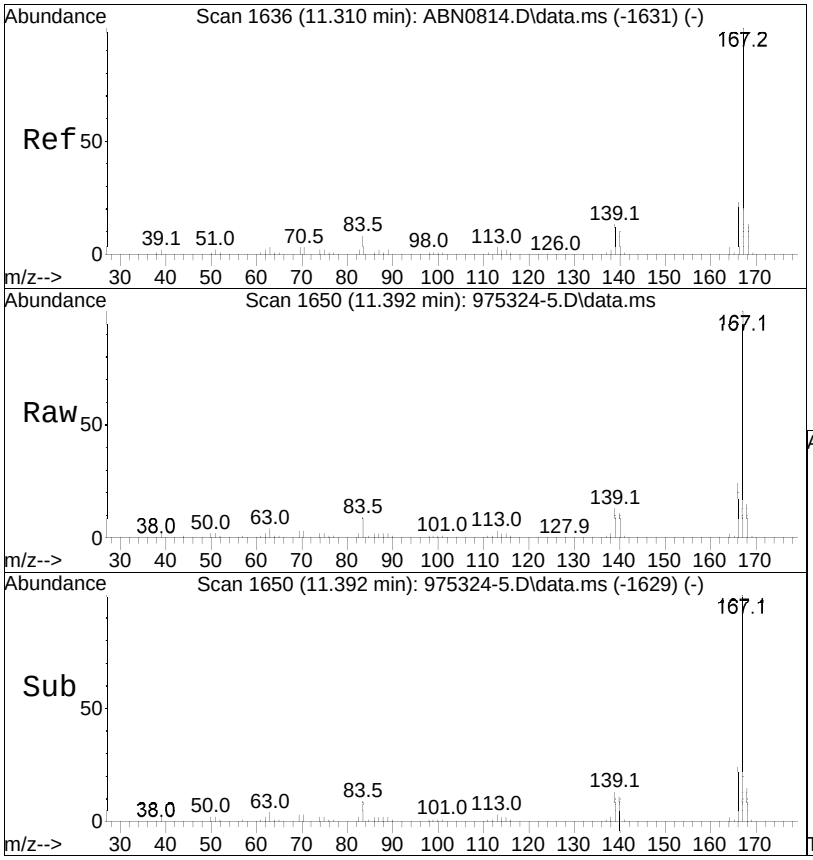


#87
Atrazine
Concen: 1.77 ug/ml
RT: 10.916 min Scan# 1569
Delta R.T. -0.006 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:200 Resp: 7054

Ion	Ratio	Lower	Upper
200	100		
202	32.3	25.8	38.6
215	42.5	40.2	60.4

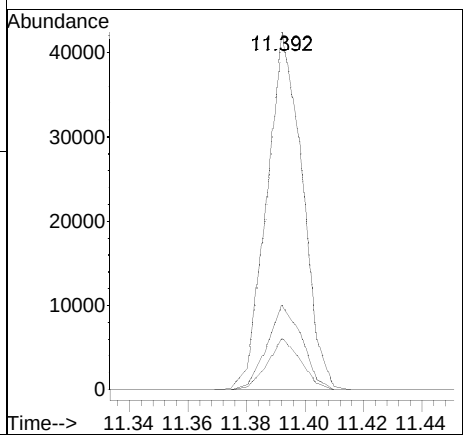


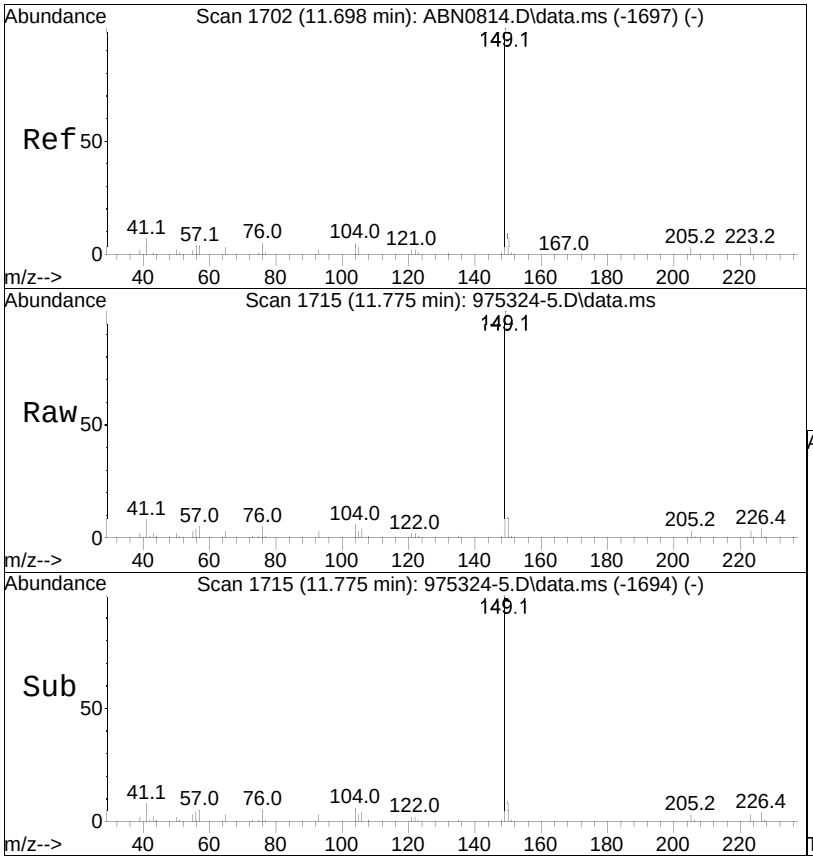


#91
Carbazole
Concen: 1.48 ug/ml
RT: 11.392 min Scan# 1650
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:167 Resp: 35558

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	15.8
166	23.4	17.4	26.0

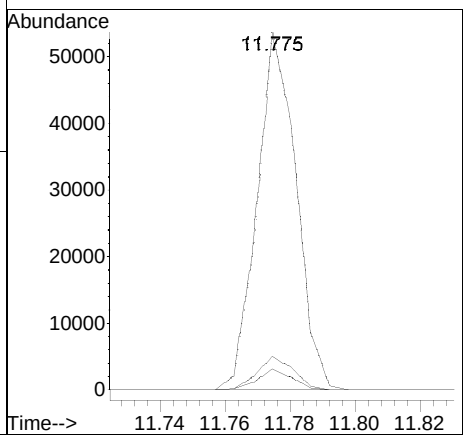


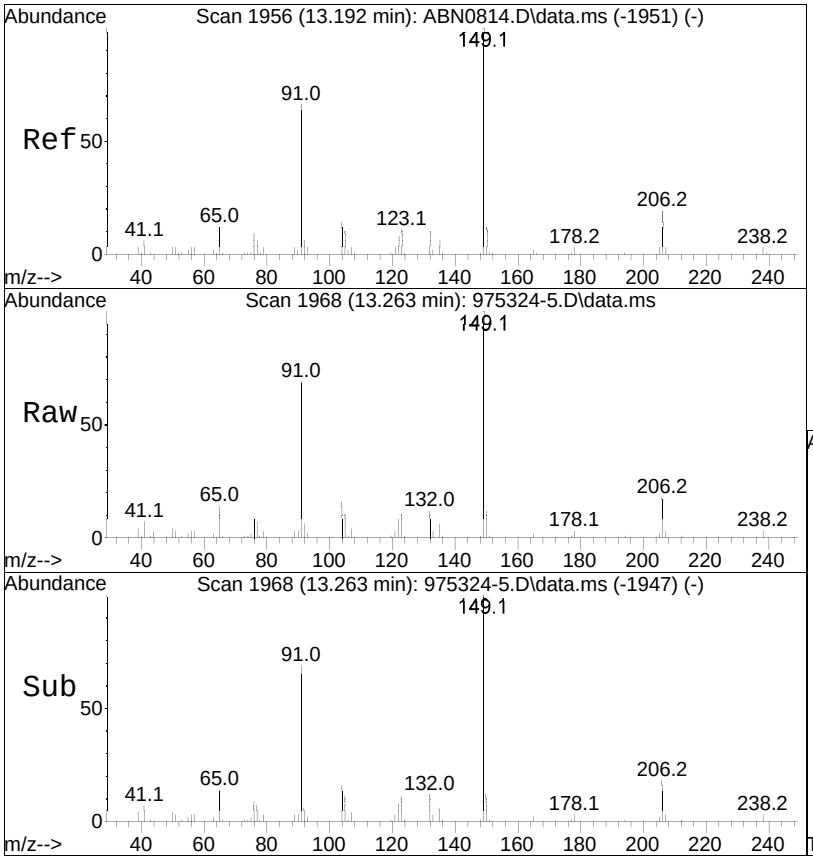


#92
Di-n-butylphthalate
Concen: 1.67 ug/ml
RT: 11.775 min Scan# 1715
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:149 Resp: 44078

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	5.3	4.5	6.7

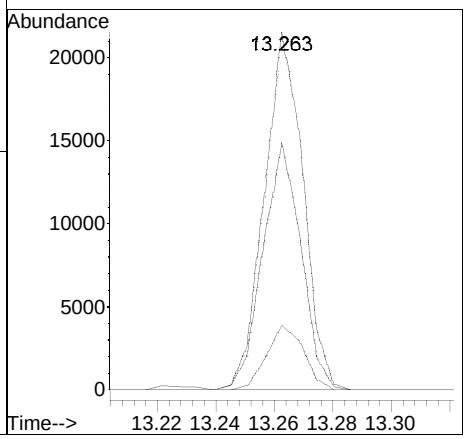


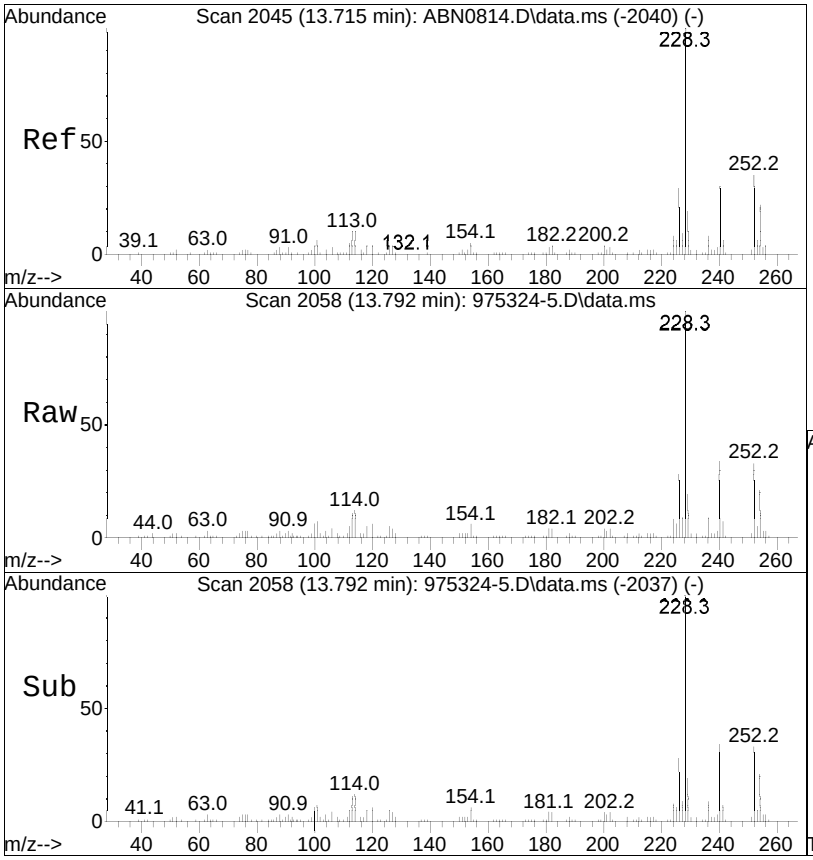


#97
Butyl benzyl phthalate
Concen: 1.77 ug/ml
RT: 13.263 min Scan# 1968
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:149 Resp: 19604

Ion	Ratio	Lower	Upper
149	100		
91	68.1	63.3	94.9
206	17.3	13.9	20.9

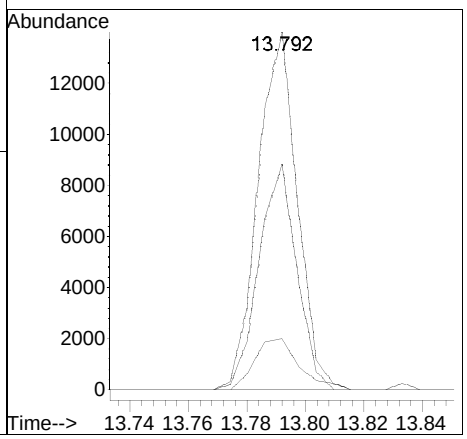


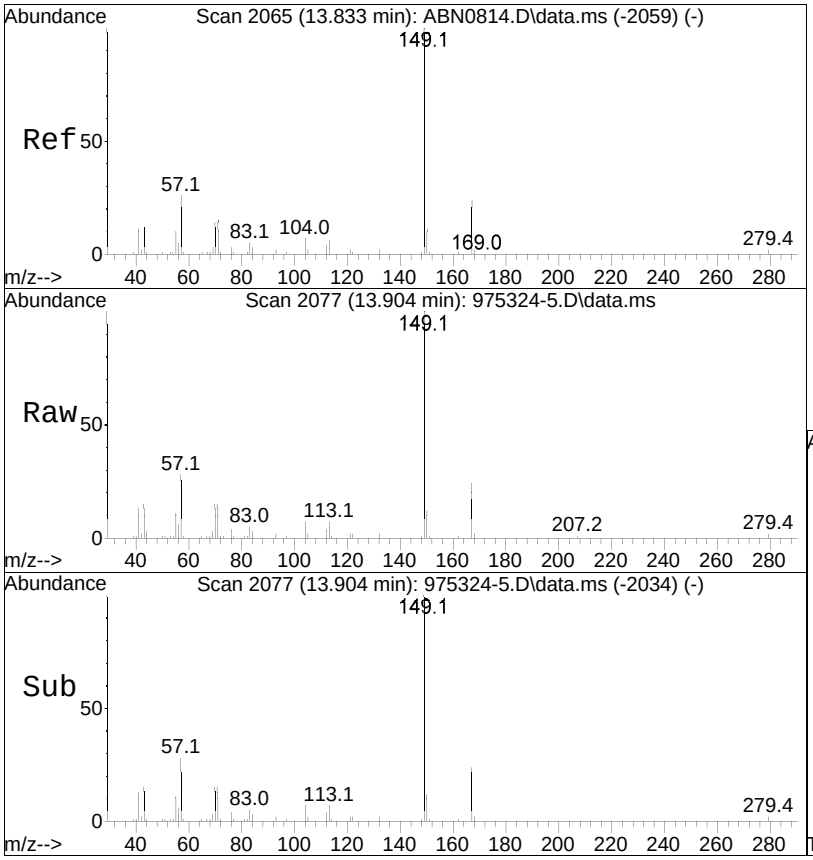


#106
3,3'-Dichlorobenzidine
Concen: 1.28 ug/ml
RT: 13.792 min Scan# 2058
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:252 Resp: 12937

Ion	Ratio	Lower	Upper
252	100		
126	16.4	14.5	21.7
254	60.9	51.2	76.8

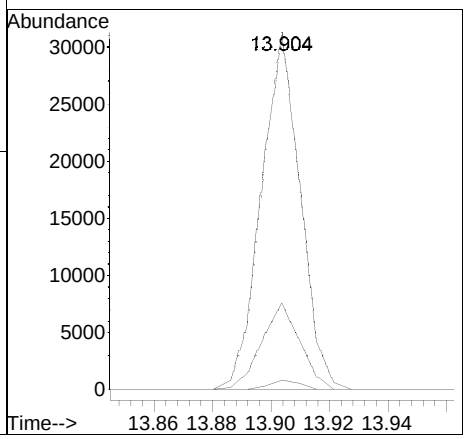


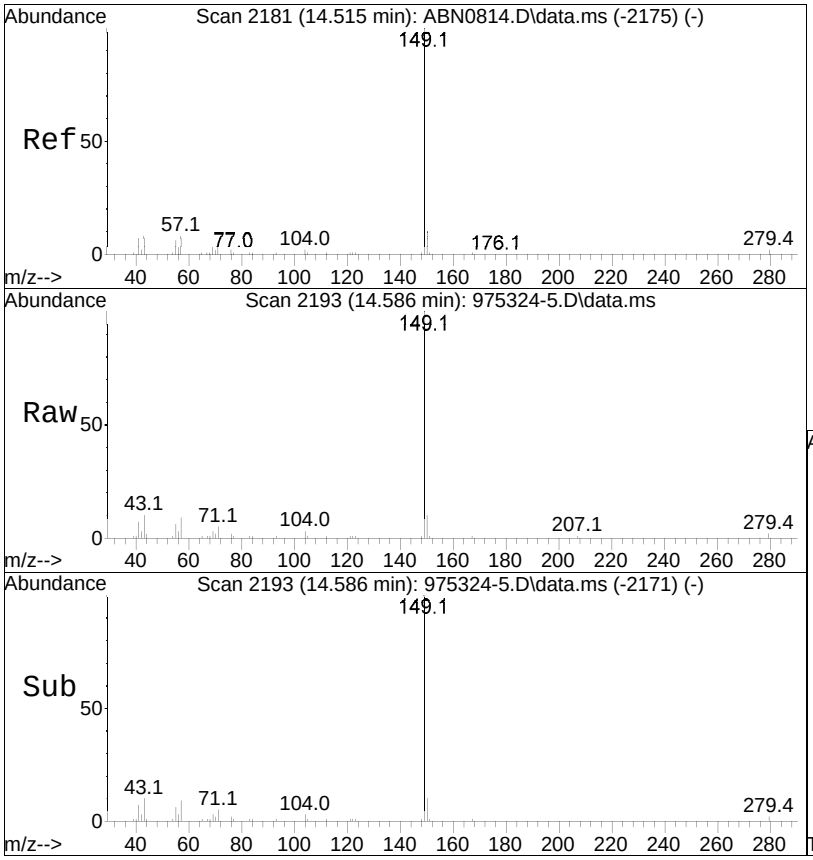


#108
Bis(2-ethylhexyl)phthalate
Concen: 1.80 ug/ml
RT: 13.904 min Scan# 2077
Delta R.T. 0.000 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:149 Resp: 28558

Ion	Ratio	Lower	Upper
149	100		
167	24.1	22.1	33.1
279	1.9	3.0	4.4#

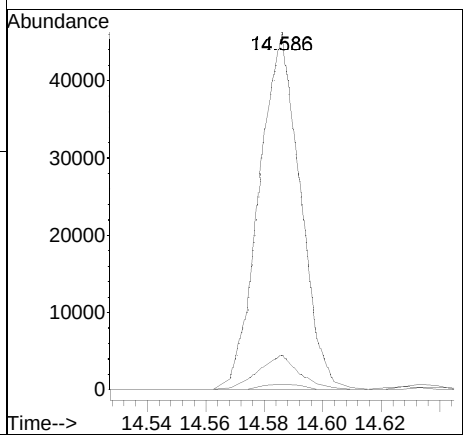




#109
Di-n-octylphthalate
Concen: 1.82 ug/ml
RT: 14.586 min Scan# 2193
Delta R.T. 0.006 min
Lab File: 975324-5.D
Acq: 25 Sep 2024 7:37 pm

Tgt Ion:149 Resp: 44576

Ion	Ratio	Lower	Upper
149	100		
43	9.6	18.8	28.2#
167	1.3	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\SV107\240925RVT\	QMethod	: FS240730SV107RVT.m
Data File	: 975324-5.D	Operator	: SV107:ek
Date Inj'd	: 9/25/2024 7:37 pm	Instrument	: SV107
Sample	: WG1975324-5,32,,mrg	Quant Date	: 9/25/2024 7:57 pm

There are no manual integrations or false positives in this file.

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 26 2024, 10:19 am

Work Group: WG1975324 for Department: 2 Organic Preparation

Created: 24-SEP-24 Due: Operator: ARP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453335-06	HRP-MW1-091724	C	NYTCL-8270-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453720-01	MW-8S	C	NYTCL-8270-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-02	MW-8D	C	NYTCL-8270-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-03	DUP_091824	C	NYTCL-8270-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-04	EQUIPMENT BLANK	C	NYTCL-8270-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-06	MW-5D	C	NYTCL-8270-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-07	PZ-5	C	NYTCL-8270-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-08	MW-12S	C	NYTCL-8270-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-09	MW-12D	C	NYTCL-8270-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
WG1975324-1	Laboratory Method Bl	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1975324-2	Laboratory Control S	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1975324-3	LCS Duplicate	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1975324-4	Matrix Spike	S	NYTCL-8270-RVT	WATER	DONE	U				
WG1975324-5	Matrix Spike Duplica	S	NYTCL-8270-RVT	WATER	DONE	U				

Comments:

WG1975324-3	WG1975324-2
WG1975324-4	L2453720-02
WG1975324-5	L2453720-02

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV107\240602ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/2/2024 7:09 pm
2	ABNL9.D	8270RVT.M	IL2,32,,ABNL50 Lot# 106	WG1929644,,ical	6/2/2024 7:34 pm
3	ABNL8.D	8270RVT.M	IL3,32,,ABNL25 Lot# 106	WG1929644,,ical	6/2/2024 7:59 pm
4	ABNL7.D	8270RVT.M	IL4,32,,ABNL10 Lot# 106	WG1929644,,ical	6/2/2024 8:24 pm
5	ABNL6.D	8270RVT.M	IL5,32,,ABNL5 Lot# 1069	WG1929644,,ical	6/2/2024 8:50 pm
6	ABNL5.D	8270RVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1929644,,ical	6/2/2024 9:15 pm
7	ABNL4.D	8270RVT.M	IL7,32,,ABNL1 Lot# 1069	WG1929644,,ical	6/2/2024 9:40 pm
8	ABNL3.D	8270RVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1929644,,ical	6/2/2024 10:05 pm
9	ABNL2.D	8270RVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1929644,,ical	6/2/2024 10:30 pm
10	ABNL1.D	8270RVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1929644,,ical	6/2/2024 10:56 pm
11	AP9L9.D	8270RVT.M	IL2,32,,AP9L50 Lot# 107	WG1929644,,ical	6/2/2024 11:21 pm
12	AP9L8.D	8270RVT.M	IL3,32,,AP9L25 Lot# 107	WG1929644,,ical	6/2/2024 11:47 pm
13	AP9L7.D	8270RVT.M	IL4,32,,AP9L10 Lot# 107	WG1929644,,ical	6/3/2024 12:12 am
14	AP9L6.D	8270RVT.M	IL5,32,,AP9L5 Lot# 1070	WG1929644,,ical	6/3/2024 12:37 am
15	AP9L5.D	8270RVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1929644,,ical	6/3/2024 1:08 am
16	AP9L4.D	8270RVT.M	IL7,32,,AP9L1 Lot# 1070	WG1929644,,ical	6/3/2024 1:33 am
17	AP9L3.D	8270RVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1929644,,ical	6/3/2024 1:58 am
18	AP9L2.D	8270RVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1929644,,ical	6/3/2024 2:23 am
19	AP9L1.D	8270RVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1929644,,ical	6/3/2024 2:49 am
20	ABNICV.D	8270RVT.M	CQICV1,32,,ABNICV Lot#	WG1929644,,ical	6/3/2024 3:14 am
21	AP9ICV.D	8270RVT.M	CQICV2,32,,AP9ICV Lot#	WG1929644,,ical	6/3/2024 3:39 am
22	Tune2.D	8270RVT.M	Tune lot #10767	WG1929644,,ical	6/3/2024 4:04 am
23	ADPL9.D	8270RVT.M	IL2,32,,ADPL50 Lot# 107	WG1929644,,ical	6/3/2024 4:29 am
24	ADPL8.D	8270RVT.M	IL3,32,,ADPL25 Lot# 107	WG1929644,,ical	6/3/2024 4:54 am
25	ADPL7.D	8270RVT.M	IL4,32,,ADPL10 Lot# 107	WG1929644,,ical	6/3/2024 5:19 am
26	ADPL6.D	8270RVT.M	IL5,32,,ADPL5 Lot# 1071	WG1929644,,ical	6/3/2024 5:45 am
27	ADPL5.D	8270RVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1929644,,ical	6/3/2024 6:10 am
28	ADPL4.D	8270RVT.M	IL7,32,,ADPL1 Lot# 1071	WG1929644,,ical	6/3/2024 6:35 am
29	ADPL3.D	8270RVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1929644,,ical	6/3/2024 7:00 am
30	ADPL2.D	8270RVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1929644,,ical	6/3/2024 7:25 am
31	ADPL1.D	8270RVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1929644,,ical	6/3/2024 7:50 am
32	ADPICV.D	8270RVT.M	CQICV3,32,,ADPICV Lot#	WG1929644,,ical	6/3/2024 8:15 am
33	InstBlnk.D	8270RVT.M	Instrument Blank	wg,,ical	6/3/2024 8:40 am

Printed: 06/04/24 Page: 1

Analysis log File

Total Files Reported in Log : 33
Log Generated From Directory: I:\8270\SV106\240624RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	ABNRVT.M	Tune1 Lot# 10853	WG1939040	6/24/2024 4:32 pm
2	ABNL9.D	ABNRVT.M	IL2,32,,ABNL50 Lot# 107	WG1939040	6/24/2024 4:56 pm
3	ABNL8.D	ABNRVT.M	IL3,32,,ABNL25 Lot# 107	WG1939040	6/24/2024 5:20 pm
4	ABNL7.D	ABNRVT.M	IL4,32,,ABNL10 Lot# 107	WG1939040	6/24/2024 5:43 pm
5	ABNL6.D	ABNRVT.M	IL5,32,,ABNL5 Lot# 1078	WG1939040	6/24/2024 6:07 pm
6	ABNL5.D	ABNRVT.M	IL6,32,,ABNL2.5 Lot# 10	WG1939040	6/24/2024 6:31 pm
7	ABNL4.D	ABNRVT.M	IL7,32,,ABNL1 Lot# 1078	WG1939040	6/24/2024 6:54 pm
8	ABNL3.D	ABNRVT.M	IL8,32,,ABNL0.5 Lot# 10	WG1939040	6/24/2024 7:18 pm
9	ABNL2.D	ABNRVT.M	IL9,32,,ABNL0.2 Lot# 10	WG1939040	6/24/2024 7:42 pm
10	ABNL1.D	ABNRVT.M	IL10,32,,ABNL0.1 Lot# 1	WG1939040,,	6/24/2024 8:05 pm
11	AP9L9.D	ABNRVT.M	IL2,32,,AP9L50 Lot# 107	WG1939040	6/24/2024 8:29 pm
12	AP9L8.D	ABNRVT.M	IL3,32,,AP9L25 Lot# 107	WG1939040	6/24/2024 8:53 pm
13	AP9L7.D	ABNRVT.M	IL4,32,,AP9L10 Lot# 107	WG1939040	6/24/2024 9:16 pm
14	AP9L6.D	ABNRVT.M	IL5,32,,AP9L5 Lot# 1079	WG1939040	6/24/2024 9:40 pm
15	AP9L5.D	ABNRVT.M	IL6,32,,AP9L2.5 Lot# 10	WG1939040	6/24/2024 10:04 pm
16	AP9L4.D	ABNRVT.M	IL7,32,,AP9L1 Lot# 1079	WG1939040	6/24/2024 10:28 pm
17	AP9L3.D	ABNRVT.M	IL8,32,,AP9L0.5 Lot# 10	WG1939040	6/24/2024 10:52 pm
18	AP9L2.D	ABNRVT.M	IL9,32,,AP9L0.2 Lot# 10	WG1939040	6/24/2024 11:15 pm
19	AP9L1.D	ABNRVT.M	IL10,32,,AP9L0.1 Lot# 1	WG1939040	6/24/2024 11:39 pm
20	ABNICV.D	ABNRVT.M	CQICV1,32,,ABNICV Lot#	WG1939040,,ical	6/25/2024 12:03 am
21	AP9ICV.D	ABNRVT.M	CQICV2,32,,AP9ICV Lot#	WG1939040	6/25/2024 12:27 am
22	Tune2.D	ABNRVT.M	Tune2 Lot# 10853	WG1939040	6/25/2024 12:51 am
23	ADPL9.D	ABNRVT.M	IL2,32,,ADPL50 Lot# 107	WG1939040	6/25/2024 1:14 am
24	ADPL8.D	ABNRVT.M	IL3,32,,ADPL25 Lot# 107	WG1939040	6/25/2024 1:38 am
25	ADPL7.D	ABNRVT.M	IL4,32,,ADPL10 Lot# 107	WG1939040	6/25/2024 2:02 am
26	ADPL6.D	ABNRVT.M	IL5,32,,ADPL5 Lot# 1079	WG1939040	6/25/2024 2:26 am
27	ADPL5.D	ABNRVT.M	IL6,32,,ADPL2.5 Lot# 10	WG1939040	6/25/2024 2:49 am
28	ADPL4.D	ABNRVT.M	IL7,32,,ADPL1 Lot# 1080	WG1939040	6/25/2024 3:13 am
29	ADPL3.D	ABNRVT.M	IL8,32,,ADPL0.5 Lot# 10	WG1939040	6/25/2024 3:37 am
30	ADPL2.D	ABNRVT.M	IL9,32,,ADPL0.2 Lot# 10	WG1939040	6/25/2024 4:01 am
31	ADPL1.D	ABNRVT.M	IL10,32,,ADPL0.1 Lot# 1	WG1939040	6/25/2024 4:24 am
32	ADPICV.D	ABNRVT.M	CQICV3,32,,ADPICV Lot#	WG1939040	6/25/2024 4:48 am
33	Blank1.D	ABNRVT.M	LVI Instrument Blank	wg,,ical	6/25/2024 5:12 am

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Dep.: GCMS
Inst: SV106
Date: **09/24/24**
Run:

Method
GC: ABNRVT

Seq: **WG1975455**

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
141	DEG0924	wg-1,32,,Degdftpp Lot # 11002				smz 9/24
142	ABN0924	wg-3,32,,ABN 10908 HNY0826A	**Passes Full List**			smz 9/24
143	AP90924	wg-4,32,,AP9 10909 gmr0914A				smz 9/24
144	ADP0924	wg-5,32,,ADP 10751 gmr0914A				smz 9/24
1	974966-1	WG1974966/5-1,32,,gmr				smz 9/24
2	974965-2	WG1974965/6-2,32,,gmr				smz 9/24
3	974965-3	WG1974965/6-3,32,,gmr				smz 9/24
4	974967-1	WG1974967-1,32,,gmr				smz 9/24
5	974967-2	WG1974967-2,32,,gmr				smz 9/24
6	974967-3	WG1974967-3,32,,gmr				smz 9/24
7	53864-09	L2453864-09,32,,R3C,gmr				smz 9/24
8	53864-10	L2453864-10,32,,R3C,gmr				smz 9/24
9	54397-01	L2454397-01,32,,R1B,gmr				smz 9/24
10	54397-02	L2454397-02,32,,R1B,gmr			sv-smz	smz 9/24
11	54397-03	L2454397-03,32,,R1B,gmr				smz 9/24
12	54397-04	L2454397-04,32,,R1B,gmr				smz 9/24
13	53874-02	L2453874-02,32,,R3C,gmr				smz 9/24
14	53209-02	L2453209-02,32,,R3E,gmr			gmr	smz 9/24
15	3887-01d	L2453887-01d,32,5,rr			sv-smz	smz 9/24
16	1432-01d	L2451342-01d2,32,10000,rr			smz	smz 9/24
17	975324-2	WG1975324-2,32,,HNY			sv jg	smz 9/24
18	975324-3	WG1975324-3,32,,HNY				smz 9/24
19	975324-1	WG1975324-1,32,,HNY				smz 9/24
20	975453-2	WG1975453-2,32,,HNY			sv-smz	slr 9/25
21	975453-3	WG1975453-3,32,,HNY				slr 9/25
22	975453-1	WG1975453-1,32,,HNY				slr 9/25
23	53238-01	L2453238-01,32,,HNY				slr 9/25
24	53335-06	L2453335-06,32,,HNY				ek 9/24
25	53720-01	L2453720-01,32,,HNY				ek 9/24
26	53720-03	L2453720-03,32,,HNY				ek 9/24
27	53720-04	L2453720-04,32,,HNY			hny	ek 9/24
					sv-gmr	

Dep.: GCMS
Inst: SV107
Date: **09/24/24**
Run:

Method
GC: 8270RVT

Seq: **WG1975560**

Vial	Data File	Sample	CCAL/Notes	Screen	verified	initials
141	DEG0924	wg-1,32,,Degdftpp Lot #11038				smz 9/24
142	ABN0924	wg-3,32,,ABN 10908 HNY0924A	**Passes full list, TCLP**			smz 9/24
143	AP90924	wg-4,32,,AP9 10909 gmr0914A				smz 9/24
144	ADP0924	wg-5,32,,ADP 10751 HNY0826A				smz 9/24
145	BLK0924	RVTBlank				
1	53686-01	L2453686-01,32,,gmr				smz 9/24
2	53686-02	L2453686-02,32,,gmr				smz 9/24
3	53686-03	L2453686-03,32,,gmr				smz 9/24
4	53686-04	L2453686-04,32,,gmr				smz 9/24
5	53686-05	L2453686-05,32,,gmr				smz 9/24
6	53686-06	L2453686-06,32,,gmr				smz 9/24
7	53686-07	L2453686-07,32,,gmr			**gmr**	smz 9/24
8	53490-04	L2453490-04,32,,HNY			sv-smz	smz 9/24
9	53720-06	L2453720-06,32,,HNY				ek 9/24
10	975456-2	WG1975456-2,32,,HNY				ek 9/24
11	975456-3	WG1975456-3,32,,HNY				ek 9/24
12	975456-1	WG1975456-1,32,,HNY				ek 9/24
13	53305-01	L2453305-01,32,,HNY				ek 9/24
14	53305-02	L2453305-02,32,,HNY				ek 9/24
15	53305-03	L2453305-03,32,,HNY				ek 9/24
16	53720-07	L2453720-07,32,,HNY				ek 9/24
17	53720-08	L2453720-08,32,,HNY				ek 9/24
18	53720-09	L2453720-09,32,,HNY				ek 9/24
19	974981-4	WG1974981-4,32,,gmr				
20	974981-5	WG1974981-5,32,,gmr				
21	53108-06	L2453108-06,32,,gmr			hny	
					sv-ljg	

Dep.: GCMS
Inst: SV107
Date: **09/25/24**
Run:

Method
GC: 8270RVT

Seq: **WG1976103**

Vial	Data File	Sample	CCAL/Notes	Screen	verified	initials
141	DEG0925	wg-1,32,,Degdftpp Lot #11038				9/25jg
142	ABN0925	wg-3,32,,ABN 10908 HNY0924A	**Passes full list, TCLP**			9/25jg
143	AP90925	wg-4,32,,AP9 10909 gmr0914A				9/25jg
144	ADP0925	wg-5,32,,ADP 10751 HNY0826A				9/25jg
1	975819-1	WG1975819-1,32,,HNY				9/25jg
2	975819-2	WG1975819-2,32,,HNY				9/25jg
3	975819-3	WG1975819-3,32,,HNY				9/25jg
4	975617-1	WG1975617-1,32,,HNY				9/25jg
5	975617-2	WG1975617-2,32,,HNY				9/25jg
6	975617-3	WG1975617-3,32,,HNY				9/25jg
7	53680-07	L2453680-07,32,,R1B,RE,HNY				9/25jg
8	54432-01	L2454432-01,32,,R3C,HNY				9/25jg
9	54436-02	L2454436-02,32,,R3C,HNY				9/25jg
10	54436-05	L2454436-05,32,,R3C,HNY				9/25jg
11	53124-05	L2453124-05,32,,RE,HNY				9/25jg
12	53429-06	L2453429-06,32,,RE,HNY				9/25jg
13	53108-07	L2453108-07,32,,RE,HNY				
14	976037-2	WG1976037/5975/80-2,32,,mrg				slr 9/26
15	976037-3	WG1976037/5975/80-3,32,,mrg			hny	slr 9/26
16	976037-1	WG1976037/5975/80-1,32,,mrg				slr 9/26
17	53311-05	L2453311-05,32,,RE,mrg				slr 9/26
18	975617-4	WG1975617-4,32,,mrg			**gmr**	
19	975617-5	WG1975617-5,32,,mrg				
20	53720-02	L2453720-02,32,,mrg				9/25jg
21	975324-4	WG1975324-4,32,,mrg				
22	975324-5	WG1975324-5,32,,mrg			**mrg**	
					sv-ljg	

ORGANIC ELN REPORT

Workgroup: WG1975324

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089
Surrogate Type: ABN **Lot #:** 11001-AS[03/11/25]
Spike Type: ABN **Lot #:** 10948-AG[02/03/25]; 10949-AI[
Spike Verify by: ARP/DLP
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A072424
Na2SO4	241169
NaOH	10NNaOH082824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EJ089

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453335-06 SAMP	09/24/24 09:43	Dayle Parsons	100	<2, >12	.1		09/24/24 13:12	Grace Tran	1	K
L2453720-01 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
L2453720-02 SAMP	09/25/24 01:52	Amanda Patterson	100	<2, >12	.1		09/25/24 08:23	Grace Tran	1	K
L2453720-03 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
L2453720-04 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
L2453720-06 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
L2453720-07 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K

Reported: 26-SEP-24 10:19 AM

ORGANIC ELN REPORT

Workgroup: WG1975324

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2453720-08 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
L2453720-09 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
WG1975324-1 BLANK	09/24/24 04:19 **WG1975326**	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
WG1975324-2 LCS	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1	.1	09/24/24 10:42	Ashley Busold	1	K
WG1975324-3 LCSD	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1	.1	09/24/24 10:42	Ashley Busold	1	K
WG1975324-4 MS	09/25/24 01:52	Amanda Patterson	100	<2, >12	.1	.1	09/25/24 08:23	Grace Tran	1	K
WG1975324-5 MSD	09/25/24 01:52	Amanda Patterson	100	<2, >12	.1	.1	09/25/24 08:23	Grace Tran	1	K

Reported: 26-SEP-24 10:19 AM

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453720
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-8S (L2453720-01)	41	30	77	70	84	88	0
MW-8D (L2453720-02)	38	28	65	74	67	67	0
DUP_091824 (L2453720-03)	41	35	104	88	72	94	0
EQUIPMENT BLANK (L2453720-04)	36	29	90	78	68	85	0
MW-5D (L2453720-06)	24	22	99	85	45	90	0
PZ-5 (L2453720-07)	24	21	78	67	46	72	0
MW-12S (L2453720-08)	22	18	46	56	55	62	0
MW-12D (L2453720-09)	29	22	56	63	61	65	0
WG1975326-1BLANK	50	36	85	72	82	80	0
WG1975326-2LCS	40	33	75	65	70	70	0
WG1975326-3LCSD	48	36	78	67	85	75	0
MW-8DMS	38	28	57	64	58	53	0
MW-8DMSD	46	34	68	77	76	69	0

QC LIMITS

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

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1975326-2 **Analysis Date** : 09/24/24 17:27	**File ID**	: 975326-2
LCSD Sample ID	: WG1975326-3 **Analysis Date** : 09/24/24 17:43	**File ID**	: 975326-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	20	12	60	20	13	63	5	40-140	40
2-Chloronaphthalene	20	13	63	20	13	66	5	40-140	40
Fluoranthene	20	15	74	20	16	78	5	40-140	40
Hexachlorobutadiene	20	12	62	20	13	65	5	40-140	40
Naphthalene	20	11	56	20	12	59	5	40-140	40
Benzo(a)anthracene	20	14	68	20	15	73	7	40-140	40
Benzo(a)pyrene	20	16	79	20	17	84	6	40-140	40
Benzo(b)fluoranthene	20	14	72	20	16	81	12	40-140	40
Benzo(k)fluoranthene	20	15	76	20	15	76	0	40-140	40
Chrysene	20	13	66	20	14	69	4	40-140	40
Acenaphthylene	20	14	69	20	14	72	4	40-140	40
Anthracene	20	14	70	20	15	74	6	40-140	40
Benzo(ghi)perylene	20	16	80	20	17	84	5	40-140	40
Fluorene	20	13	63	20	13	67	6	40-140	40
Phenanthrene	20	13	66	20	14	68	3	40-140	40
Dibenzo(a,h)anthracene	20	17	85	20	18	90	6	40-140	40
Indeno(1,2,3-cd)pyrene	20	18	90	20	19	93	3	40-140	40
Pyrene	20	15	74	20	16	78	5	40-140	40
2-Methylnaphthalene	20	12	62	20	13	65	5	40-140	40
Pentachlorophenol	20	12	59	20	18	90	42 Q	40-140	40
Hexachlorobenzene	20	13	67	20	14	69	3	40-140	40
Hexachloroethane	20	11	55	20	12	58	5	40-140	40
Bis(2-chloroethyl)ether	20	12	59	20	12	62	5	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/25/24 13:48
Matrix Spike	: WG1975326-4	**MS Analysis Date**	: 09/25/24 14:04
Matrix Spike Dup	: WG1975326-5	**MSD Analysis Date**	: 09/25/24 14:21

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	ND	20	12	60	20	15	75	22	40-140	40
2-Chloronaphthalene	ND	20	13	65	20	15	75	14	40-140	40
Fluoranthene	ND	20	11	55	20	14	70	24	40-140	40
Hexachlorobutadiene	ND	20	12	60	20	14	70	15	40-140	40
Naphthalene	ND	20	12	60	20	14	70	15	40-140	40
Benzo(a)anthracene	ND	20	11	55	20	14	70	24	40-140	40
Benzo(a)pyrene	ND	20	11	55	20	14	70	24	40-140	40
Benzo(b)fluoranthene	ND	20	11	55	20	14	70	24	40-140	40
Benzo(k)fluoranthene	ND	20	11	55	20	14	70	24	40-140	40
Chrysene	ND	20	12	60	20	15	75	22	40-140	40
Acenaphthylene	ND	20	12	60	20	14	70	15	40-140	40
Anthracene	ND	20	12	60	20	15	75	22	40-140	40
Benzo(ghi)perylene	ND	20	11	55	20	14	70	24	40-140	40
Fluorene	ND	20	11	55	20	14	70	24	40-140	40
Phenanthrene	ND	20	11	55	20	15	75	31	40-140	40
Dibenzo(a,h)anthracene	ND	20	11	55	20	15	75	31	40-140	40
Indeno(1,2,3-cd)pyrene	ND	20	12	60	20	15	75	22	40-140	40
Pyrene	ND	20	11	55	20	14	70	24	40-140	40
2-Methylnaphthalene	ND	20	12	60	20	15	75	22	40-140	40
Pentachlorophenol	ND	20	12	60	20	15	75	22	40-140	40
Hexachlorobenzene	ND	20	12	60	20	15	75	22	40-140	40
Hexachloroethane	ND	20	9.8	49	20	12	60	20	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/25/24 13:48
Matrix Spike	: WG1975326-4	**MS Analysis Date**	: 09/25/24 14:04
Matrix Spike Dup	: WG1975326-5	**MSD Analysis Date**	: 09/25/24 14:21

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (ug/l)**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**Spike Added (ug/l)**	**Spike Conc. (ug/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bis(2-chloroethyl)ether	ND	20	11	55	20	14	70	24	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1975326-1	**Lab File ID**	: 975326-1
Instrument ID	: SV120	**Extraction Date**	: 09/24/24
Matrix	: WATER	**Analysis Date**	: 09/24/24 18:00
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1975326-2LCS	WG1975326-2	09/24/24 17:27
WG1975326-3LCSD	WG1975326-3	09/24/24 17:43
MW-8S	L2453720-01	09/24/24 18:49
DUP_091824	L2453720-03	09/24/24 19:06
EQUIPMENT BLANK	L2453720-04	09/24/24 19:22
MW-5D	L2453720-06	09/24/24 19:38
PZ-5	L2453720-07	09/24/24 19:55
MW-12S	L2453720-08	09/24/24 22:52
MW-12D	L2453720-09	09/24/24 23:08
MW-8D	L2453720-02	09/25/24 13:48
MW-8DMS	WG1975326-4	09/25/24 14:04
MW-8DMSD	WG1975326-5	09/25/24 14:21

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 06/21/24 14:09
Tune Standard	: R1846022-1	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	46.7
68	Less than 2.0% of mass 69	0.6 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.3 (.6)1
127	10.0 - 80.0% of Base Peak	55.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	26.8
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	17.5
442	Base Peak, or >50% of mass 198	77.1
443	15.0 - 24.0% of mass 442	14.5 (18.9)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
L10	R1846022-3	L10	06/21/24 14:50
L9	R1846022-11	L9	06/21/24 15:06
L8	R1846022-10	L8	06/21/24 15:23
L7	R1846022-9	L7	06/21/24 15:39
L6	R1846022-8	L6	06/21/24 15:55
L5	R1846022-7	L5	06/21/24 16:12
L4	R1846022-6	L4	06/21/24 16:28
L3	R1846022-5	L3	06/21/24 16:44
L2	R1846022-4	L2	06/21/24 17:01
L1	R1846022-2	L1	06/21/24 17:17
ICV Quant Report	R1846022-12	ICV	06/21/24 17:33

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 09/24/24 11:34
Tune Standard	: WG1975503-1	**Tune File ID**	: deg0924c_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	64.7
68	Less than 2.0% of mass 69	1.2 (2)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	65.8
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	22.9
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	20.1
442	Base Peak, or >50% of mass 198	56
443	15.0 - 24.0% of mass 442	10.7 (19.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1975503-4TFACTOR-B	WG1975503-4	DEG0924C	09/24/24 11:34
WG1975503-5TFACTOR-P	WG1975503-5	DEG0924C	09/24/24 11:34
WG1975503-3CCAL	WG1975503-3	CCV0924A	09/24/24 11:50
MW-12S	L2453720-08	53720-08	09/24/24 22:52
MW-12D	L2453720-09	53720-09	09/24/24 23:08

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 09/25/24 08:00
Tune Standard	: WG1976035-1	**Tune File ID**	: deg0925_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.5
68	Less than 2.0% of mass 69	0.6 (1.3)1
69		100
70	Less than 2.0% of mass 69	0.4 (.9)1
127	10.0 - 80.0% of Base Peak	47.7
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.3
275	10.0 - 60.0% of Base Peak	25.4
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	17.8
442	Base Peak, or >50% of mass 198	67.5
443	15.0 - 24.0% of mass 442	13.4 (19.8)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1976035-4TFACTOR-B	WG1976035-4	DEG0925	09/25/24 08:00
WG1976035-5TFACTOR-P	WG1976035-5	DEG0925	09/25/24 08:00
WG1976035-3CCAL	WG1976035-3	CCV0925	09/25/24 08:17
MW-8D	L2453720-02	53720-02	09/25/24 13:48
WG1975326-4MS	WG1975326-4	975326-4	09/25/24 14:04
WG1975326-5MSD	WG1975326-5	975326-5	09/25/24 14:21

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 07/28/24 16:34
Tune Standard	: R1860680-12	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	52
68	Less than 2.0% of mass 69	0.8 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.3 (.8)1
127	10.0 - 80.0% of Base Peak	56.7
197	Less than 2.0% of mass 198	1
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	22.8
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	17.6
442	Base Peak, or >50% of mass 198	72.6
443	15.0 - 24.0% of mass 442	14.6 (20.1)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1860680-2	IL10	07/28/24 16:50
IL9	R1860680-10	IL9	07/28/24 17:07
IL8	R1860680-9	IL8	07/28/24 17:23
IL7	R1860680-8	IL7	07/28/24 17:39
IL6	R1860680-7	IL6	07/28/24 17:55
IL5	R1860680-6	IL5	07/28/24 18:11
IL4	R1860680-5	IL4	07/28/24 18:27
IL3	R1860680-4	IL3	07/28/24 18:43
IL2	R1860680-3	IL2	07/28/24 18:59
IL1	R1860680-1	IL1	07/28/24 19:15
ICV Quant Report	R1860680-11	ICV	07/28/24 19:31

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/24/24 08:01
Tune Standard	: WG1975659-1	**Tune File ID**	: deg0924_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	46.1
68	Less than 2.0% of mass 69	0.7 (1.9)1
69		100
70	Less than 2.0% of mass 69	0.3 (.7)1
127	10.0 - 80.0% of Base Peak	49.8
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	26.1
365	Greater than 1.0% of mass 198	3.6
441	Present, but less than 24% of mass 442	18.8
442	Base Peak, or >50% of mass 198	96.3
443	15.0 - 24.0% of mass 442	18.7 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1975659-4TFACTOR-B	WG1975659-4	DEG0924	09/24/24 08:01
WG1975659-5TFACTOR-P	WG1975659-5	DEG0924	09/24/24 08:01
WG1975659-3CCAL	WG1975659-3	CCV0924	09/24/24 08:20
WG1975326-2LCS	WG1975326-2	975326-2	09/24/24 17:27
WG1975326-3LCSD	WG1975326-3	975326-3	09/24/24 17:43
WG1975326-1BLANK	WG1975326-1	975326-1	09/24/24 18:00
MW-8S	L2453720-01	53720-01	09/24/24 18:49
DUP_091824	L2453720-03	53720-03	09/24/24 19:06
EQUIPMENT BLANK	L2453720-04	53720-04	09/24/24 19:22
MW-5D	L2453720-06	53720-06	09/24/24 19:38
PZ-5	L2453720-07	53720-07	09/24/24 19:55

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/24/24 08:20:00
Sample No	: WG1975659-3	**Lab File ID**	: CCV0924

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1975659-3	198000	2.10	762436	2.75	445852	3.73
Upper Limit	396000	2.60	1524872	3.25	891704	4.23
Lower Limit	99000	1.60	381218	2.25	222926	3.23
Sample ID						
WG1975326-2 LCS	209843	2.10	803298	2.76	461814	3.73
WG1975326-3 LCSD	203488	2.11	779013	2.76	441501	3.73
WG1975326-1 BLANK	213311	2.11	806332	2.76	459023	3.73
MW-8S	192220	2.10	726866	2.76	416619	3.73
DUP_091824	218143	2.11	828755	2.76	467827	3.73
EQUIPMENT BLANK	228884	2.10	870296	2.76	493773	3.73
MW-5D	257901	2.11	990845	2.76	565151	3.73
PZ-5	246280	2.10	951159	2.76	549098	3.73

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV120	**Analysis Date**	: 09/24/24 08:20:00
Sample No	: WG1975659-3	**Lab File ID**	: CCV0924

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1975659-3	924365	4.56	850035	6.11	833768	7.20
Upper Limit	1848730	5.06	1700070	6.61	1667536	7.70
Lower Limit	462183	4.06	425018	5.61	416884	6.70
Sample ID						
WG1975326-2 LCS	923311	4.57	806252	6.09	787578	7.19
WG1975326-3 LCSD	898968	4.56	806160	6.09	791398	7.19
WG1975326-1 BLANK	929896	4.56	860589	6.09	802087	7.19
MW-8S	852909	4.56	817665	6.09	764818	7.18
DUP_091824	937202	4.56	840991	6.09	767180	7.18
EQUIPMENT BLANK	995574	4.56	902869	6.09	819613	7.18
MW-5D	1113762	4.56	975342	6.09	865997	7.18
PZ-5	1109768	4.56	999415	6.09	888685	7.18

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 09/24/24 11:50:00
Sample No	: WG1975503-3	**Lab File ID**	: CCV0924A

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1975503-3	360674	2.23	1297180	2.88	791976	3.85
Upper Limit	721348	2.73	2594360	3.38	1583952	4.35
Lower Limit	180337	1.73	648590	2.38	395988	3.35
Sample ID						
MW-12S	209743	2.20	742536	2.86	474923	3.83
MW-12D	222979	2.22	799571	2.88	523633	3.84

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 09/24/24 11:50:00
Sample No	: WG1975503-3	**Lab File ID**	: CCV0924A

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1975503-3	1684497	4.68	1616975	6.25	1491013	7.44
Upper Limit	3368994	5.18	3233950	6.75	2982026	7.94
Lower Limit	842249	4.18	808488	5.75	745507	6.94
Sample ID						
MW-12S	1024321	4.68	917593	6.38	829069	7.56
MW-12D	1156279	4.68	1092794	6.27	914585	7.45

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 09/25/24 08:17:00
Sample No	: WG1976035-3	**Lab File ID**	: CCV0925

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1976035-3	191752	2.23	679198	2.88	435185	3.84
Upper Limit	383504	2.73	1358396	3.38	870370	4.34
Lower Limit	95876	1.73	339599	2.38	217593	3.34
Sample ID						
MW-8D	173829	2.23	595628	2.88	378867	3.84
MW-8D MS	171036	2.23	607401	2.88	403758	3.85
MW-8D MSD	147394	2.23	522056	2.88	330093	3.85

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: SV119	**Analysis Date**	: 09/25/24 08:17:00
Sample No	: WG1976035-3	**Lab File ID**	: CCV0925

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1976035-3	971629	4.68	1032016	6.25	1026679	7.43
Upper Limit	1943258	5.18	2064032	6.75	2053358	7.93
Lower Limit	485815	4.18	516008	5.75	513340	6.93
Sample ID						
MW-8D	834368	4.68	937915	6.25	881672	7.43
MW-8D MS	908371	4.68	1109679	6.25	1176157	7.43
MW-8D MSD	754052	4.68	945823	6.24	966356	7.43

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:49
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-01	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 18:49
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-01	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 13:48
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-02	**Analyst**	: IM
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 13:48
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-02	**Analyst**	: IM
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 19:06
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-03	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 19:06
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-03	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 19:22
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-04	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 19:22
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-04	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 19:38
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-06	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 19:38
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-06	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 19:55
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-07	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	0.41	0.80	0.06	J
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 19:55
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-07	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:52
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-08	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:52
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-08	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:08
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-09	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:08
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 53720-09	**Analyst**	: LJG
Sample Amount	: 100 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975326-1	**Date Collected**	: NA
Client ID	: WG1975326-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 975326-1	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

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

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975326-1	**Date Collected**	: NA
Client ID	: WG1975326-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 18:00
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 975326-1	**Analyst**	: MRG
Sample Amount	: 100 ml	**Instrument ID**	: SV120
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-01.D
Acq On : 24 Sep 2024 06:49 pm
Operator : SV120:mrg
Sample : L2453720-01,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 20:10:07 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.102	152	192220	4000.000	ng/ml	0.00
Standard Area 1 = 198000			Recovery = 97.08%			
8) Naphthalene-d8	2.758	136	726866	4000.000	ng/ml	# 0.00
Standard Area 1 = 762436			Recovery = 95.33%			
17) Acenaphthene-d10	3.727	164	416619	4000.000	ng/ml	0.00
Standard Area 1 = 445852			Recovery = 93.44%			
22) Phenanthrene-d10	4.563	188	852909	4000.000	ng/ml	0.00
Standard Area 1 = 924365			Recovery = 92.27%			
31) Chrysene-d12	6.091	240	817665	4000.000	ng/ml	-0.02
Standard Area 1 = 850035			Recovery = 96.19%			
36) Perylene-d12	7.184	264	764818	4000.000	ng/ml	-0.02
Standard Area 1 = 833768			Recovery = 91.73%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.542	112	46790	819.507	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 40.98%			
3) Phenol-d6	1.930	99	41739	600.971	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 30.05%			
7) Nitrobenzene-d5	2.382	82	43274	765.560	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 76.56%			
13) 2-Fluorobiphenyl	3.354	172	109024	696.032	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 69.60%			
21) 2,4,6-Tribromophenol	4.172	330	38574	1681.753	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 84.09%			
30) 4-Terphenyl-d14	5.475	244	157060	879.291	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 43.96%			

Target Compounds				Qvalue
4) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
6) Hexachloroethane	0.000	0	N.D.	
9) Naphthalene	0.000	0	N.D. d	
10) Hexachlorobutadiene	0.000	0	N.D.	
11) 2-Methylnaphthalene	0.000	0	N.D. d	
14) 2-Chloronaphthalene	0.000	0	N.D. d	
16) Acenaphthylene	0.000	0	N.D.	
18) Acenaphthene	0.000	0	N.D. d	
20) Fluorene	0.000	0	N.D. d	
24) Hexachlorobenzene	0.000	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-01.D
Acq On : 24 Sep 2024 06:49 pm
Operator : SV120:mrg
Sample : L2453720-01,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 20:10:07 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

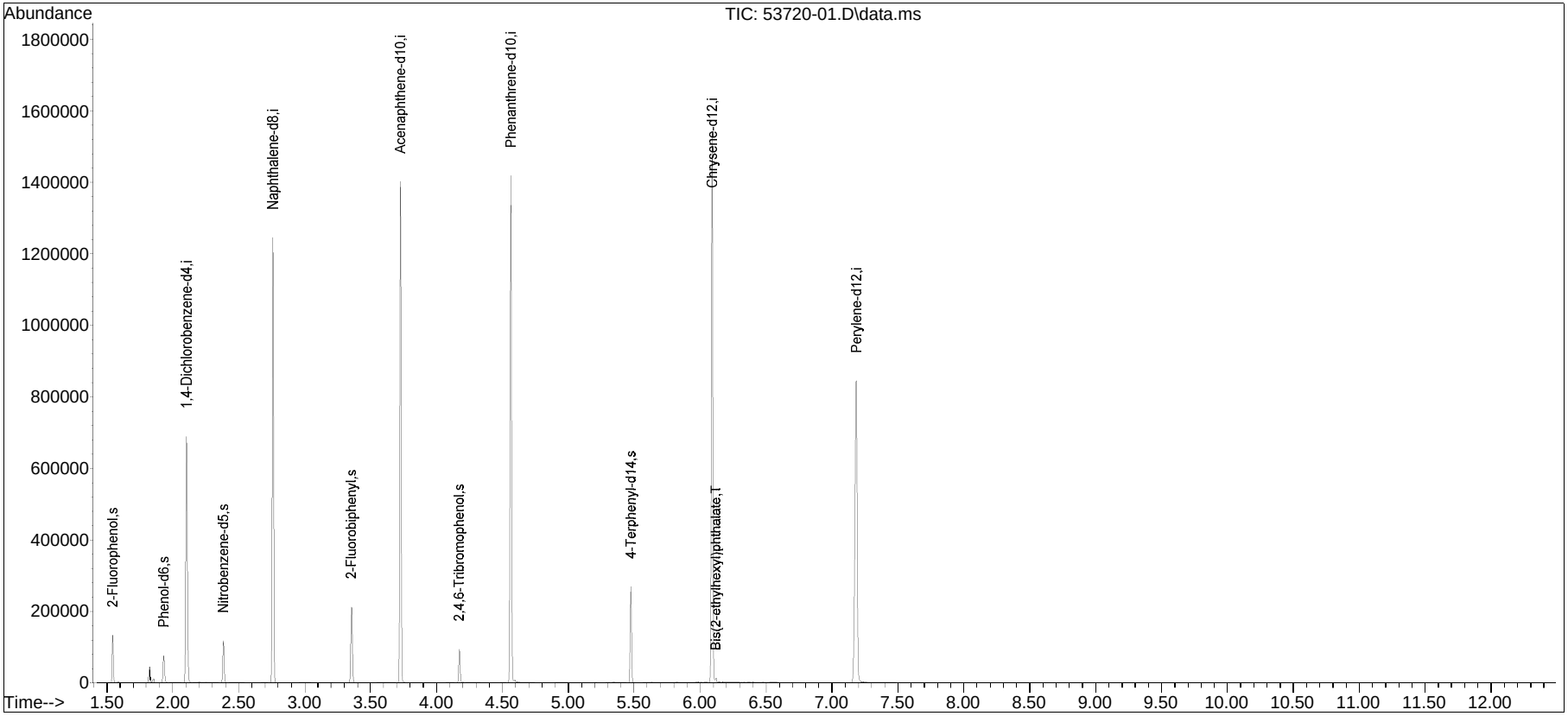
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-01.D
Acq On : 24 Sep 2024 06:49 pm
Operator : SV120:mrg
Sample : L2453720-01,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 24 20:10:07 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0924.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240924RVT	Method	: SIM-RVT_240728_sv120.M
Data File	: 53720-01.D	Operator	: SV120:mrg
Date Inj'd	: 9/24/2024 6:49 pm	Instrument	: SV120
Sample	: L2453720-01,32,,kmh	Quant Date	: 9/24/2024 7:02 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-03.D
Acq On : 24 Sep 2024 07:06 pm
Operator : SV120:mrg
Sample : L2453720-03,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 20:11:14 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.105	152	218143	4000.000	ng/ml	0.00
Standard Area 1 = 198000			Recovery = 110.17%			
8) Naphthalene-d8	2.758	136	828755	4000.000	ng/ml	# 0.00
Standard Area 1 = 762436			Recovery = 108.70%			
17) Acenaphthene-d10	3.727	164	467827	4000.000	ng/ml	0.00
Standard Area 1 = 445852			Recovery = 104.93%			
22) Phenanthrene-d10	4.562	188	937202	4000.000	ng/ml	0.00
Standard Area 1 = 924365			Recovery = 101.39%			
31) Chrysene-d12	6.090	240	840991	4000.000	ng/ml	-0.02
Standard Area 1 = 850035			Recovery = 98.94%			
36) Perylene-d12	7.180	264	767180	4000.000	ng/ml	-0.02
Standard Area 1 = 833768			Recovery = 92.01%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.547	112	53121	819.829	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 40.99%			
3) Phenol-d6	1.929	99	55484	703.941	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.20%			
7) Nitrobenzene-d5	2.381	82	66845	1042.026	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 104.20%			
13) 2-Fluorobiphenyl	3.353	172	156816	878.063	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 87.81%			
21) 2,4,6-Tribromophenol	4.171	330	37157	1442.654	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 72.13%			
30) 4-Terphenyl-d14	5.475	244	183519	935.012	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 46.75%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.148	142	408	2.701	ng/ml	94
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	4.036	166	177	0.947	ng/ml	91
24) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-03.D
Acq On : 24 Sep 2024 07:06 pm
Operator : SV120:mrg
Sample : L2453720-03,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 20:11:14 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

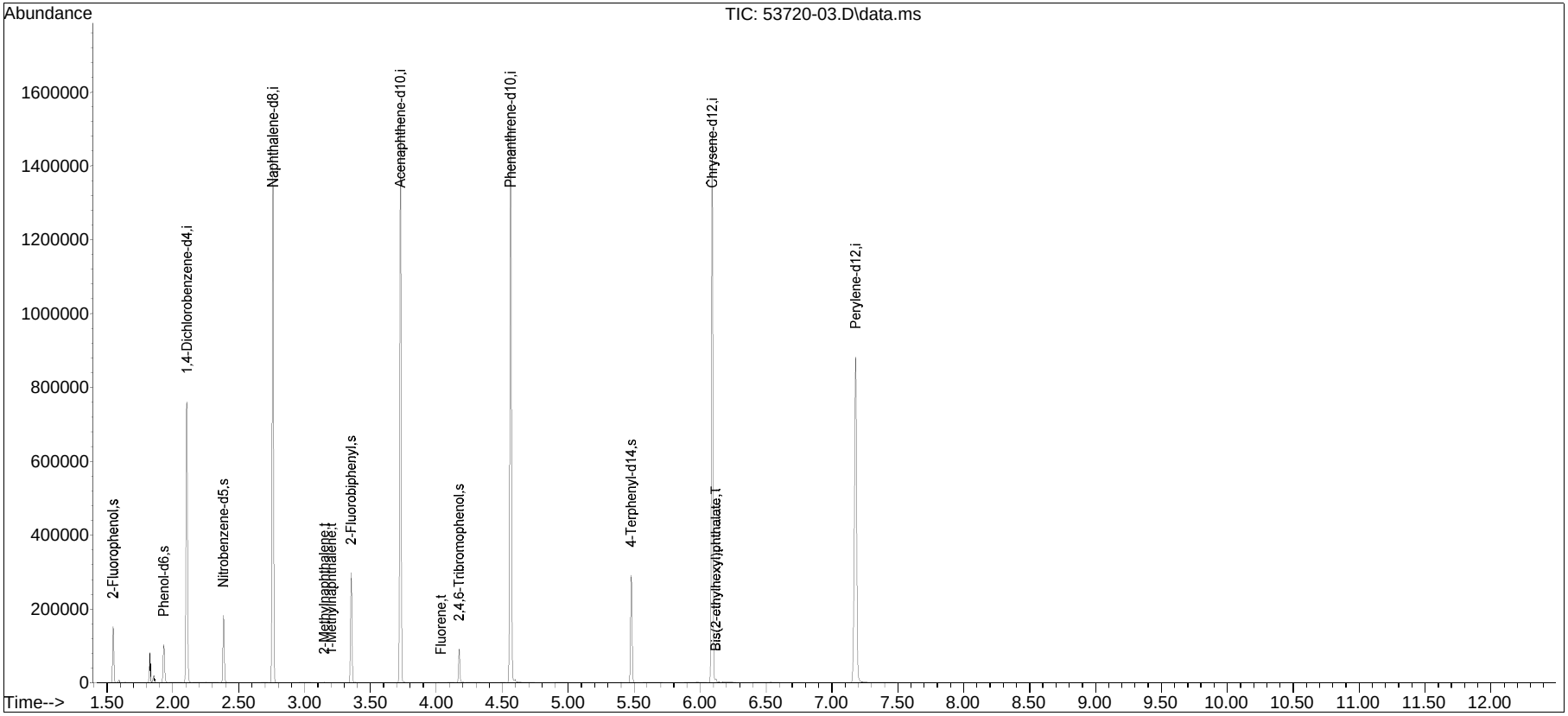
(#) = qualifier out of range (m) = manual integration (+) = signals summed

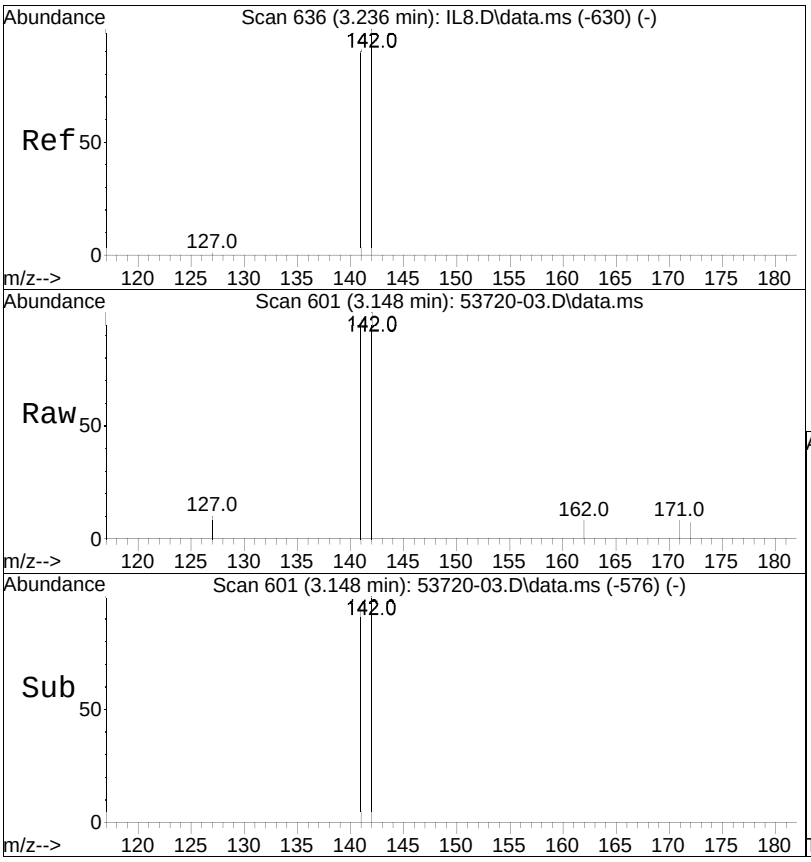
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-03.D
Acq On : 24 Sep 2024 07:06 pm
Operator : SV120:mrg
Sample : L2453720-03,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 24 20:11:14 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0924.D•

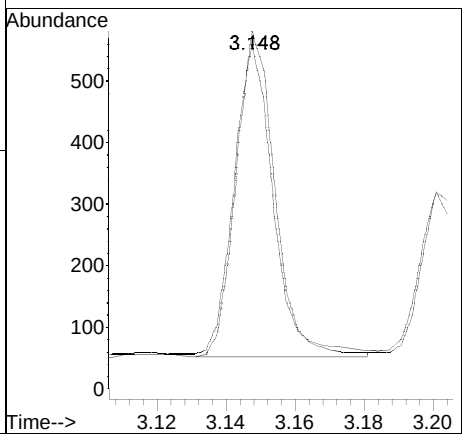


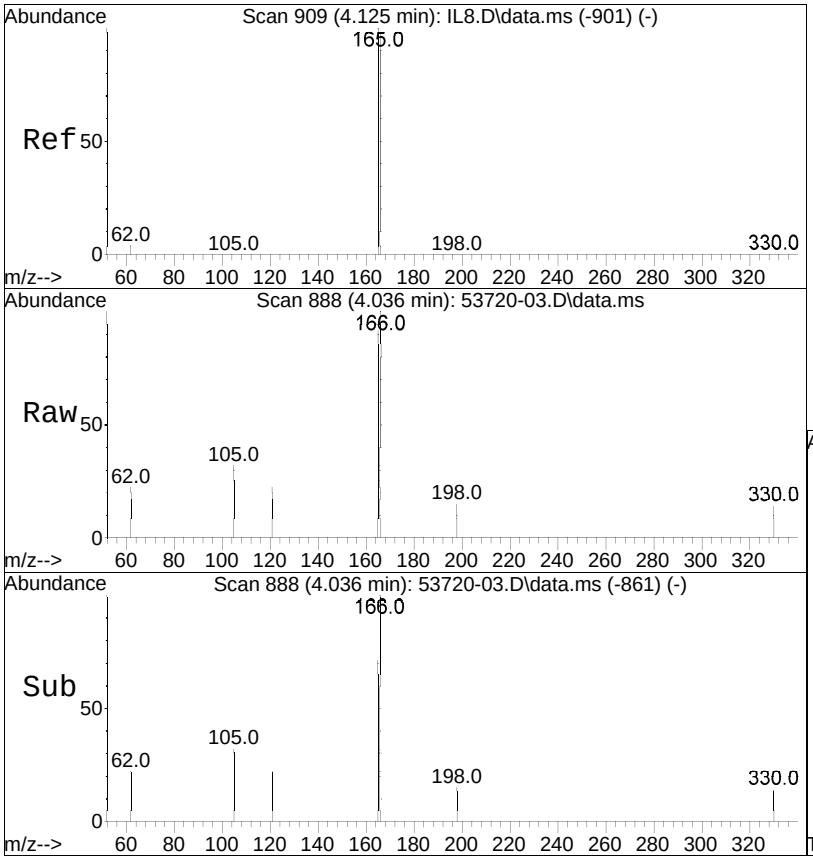


#11
2-Methylnaphthalene
Concen: 2.70 ng/ml
RT: 3.148 min Scan# 601
Delta R.T. 0.004 min
Lab File: 53720-03.D
Acq: 24 Sep 2024 07:06 pm

Tgt Ion:142 Resp: 408

Ion	Ratio	Lower	Upper
142	100		
141	96.6	73.0	109.4

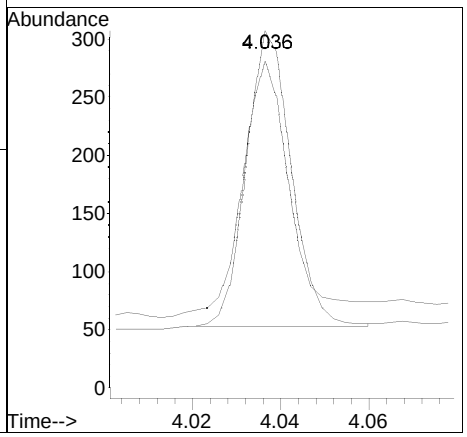




#20
Fluorene
Concen: 0.95 ng/ml
RT: 4.036 min Scan# 888
Delta R.T. 0.003 min
Lab File: 53720-03.D
Acq: 24 Sep 2024 07:06 pm

Tgt Ion:166 Resp: 177

Ion	Ratio	Lower	Upper
166	100		
165	93.2	81.5	122.3



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240924RVT	Method	: SIM-RVT_240728_sv120.M
Data File	: 53720-03.D	Operator	: SV120:mrg
Date Inj'd	: 9/24/2024 7:06 pm	Instrument	: SV120
Sample	: L2453720-03,32,,kmh	Quant Date	: 9/24/2024 7:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-04.D
Acq On : 24 Sep 2024 07:22 pm
Operator : SV120:mrg
Sample : L2453720-04,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 24 20:13:39 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.103	152	228884	4000.000	ng/ml	0.00
Standard Area 1 = 198000			Recovery = 115.60%			
8) Naphthalene-d8	2.759	136	870296	4000.000	ng/ml	# 0.00
Standard Area 1 = 762436			Recovery = 114.15%			
17) Acenaphthene-d10	3.728	164	493773	4000.000	ng/ml	0.00
Standard Area 1 = 445852			Recovery = 110.75%			
22) Phenanthrene-d10	4.564	188	995574	4000.000	ng/ml	0.00
Standard Area 1 = 924365			Recovery = 107.70%			
31) Chrysene-d12	6.089	240	902869	4000.000	ng/ml	-0.02
Standard Area 1 = 850035			Recovery = 106.22%			
36) Perylene-d12	7.182	264	819613	4000.000	ng/ml	-0.02
Standard Area 1 = 833768			Recovery = 98.30%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.547	112	49561	728.992	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 36.45%			
3) Phenol-d6	1.930	99	48658	588.368	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 29.42%			
7) Nitrobenzene-d5	2.382	82	60508	898.976	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 89.90%			
13) 2-Fluorobiphenyl	3.356	172	147002	783.822	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 78.38%			
21) 2,4,6-Tribromophenol	4.173	330	36789	1353.310	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 67.67%			
30) 4-Terphenyl-d14	5.476	244	178245	854.896	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 42.74%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.769	128	753	3.013	ng/ml#	78
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-04.D
Acq On : 24 Sep 2024 07:22 pm
Operator : SV120:mrg
Sample : L2453720-04,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 24 20:13:39 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

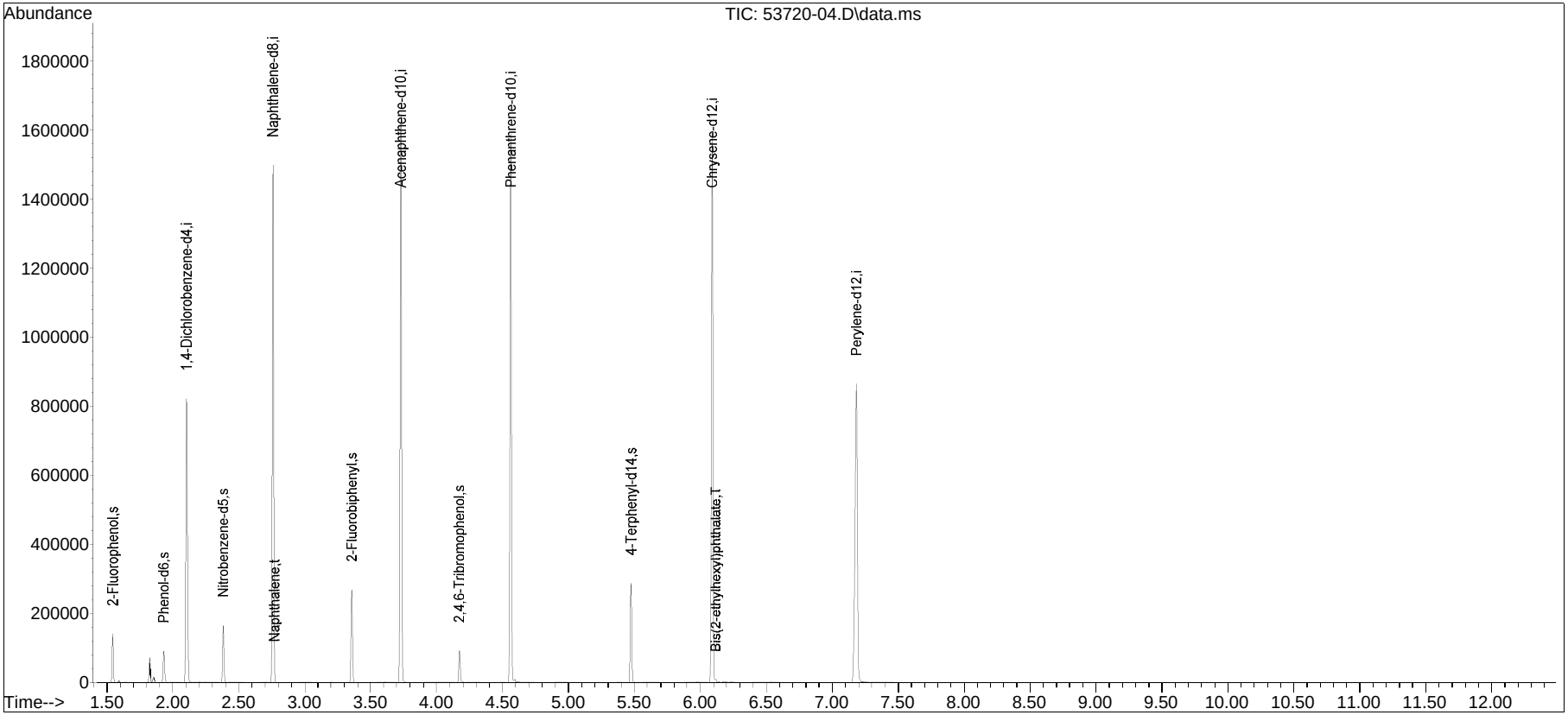
(#) = qualifier out of range (m) = manual integration (+) = signals summed

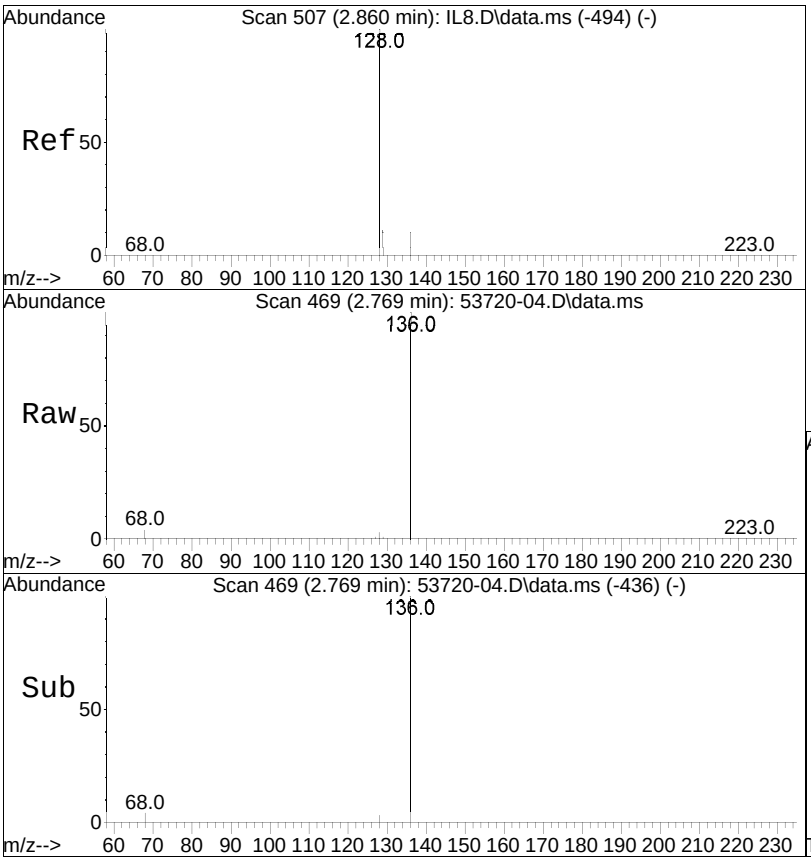
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-04.D
Acq On : 24 Sep 2024 07:22 pm
Operator : SV120:mrg
Sample : L2453720-04,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 24 20:13:39 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0924.D•

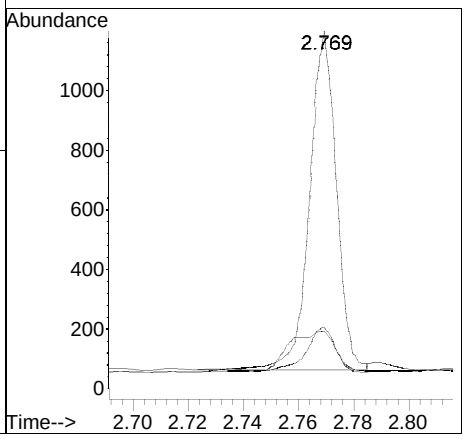




#9
Naphthalene
Concen: 3.01 ng/ml
RT: 2.769 min Scan# 469
Delta R.T. 0.005 min
Lab File: 53720-04.D
Acq: 24 Sep 2024 07:22 pm

Tgt Ion:128 Resp: 753

Ion	Ratio	Lower	Upper
128	100		
129	19.5	8.9	13.3#
127	14.7	0.0	0.0#



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240924RVT	Method	: SIM-RVT_240728_sv120.M
Data File	: 53720-04.D	Operator	: SV120:mrg
Date Inj'd	: 9/24/2024 7:22 pm	Instrument	: SV120
Sample	: L2453720-04,32,,kmh	Quant Date	: 9/24/2024 7:35 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-06.D
Acq On : 24 Sep 2024 07:38 pm
Operator : SV120:mrg
Sample : L2453720-06,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 24 20:17:03 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.106	152	257901	4000.000 ng/ml	0.00
Standard Area 1 = 198000			Recovery	= 130.25%	
8) Naphthalene-d8	2.758	136	990845	4000.000 ng/ml	# 0.00
Standard Area 1 = 762436			Recovery	= 129.96%	
17) Acenaphthene-d10	3.729	164	565151	4000.000 ng/ml	0.00
Standard Area 1 = 445852			Recovery	= 126.76%	
22) Phenanthrene-d10	4.564	188	1113762	4000.000 ng/ml	0.00
Standard Area 1 = 924365			Recovery	= 120.49%	
31) Chrysene-d12	6.090	240	975342	4000.000 ng/ml	-0.02
Standard Area 1 = 850035			Recovery	= 114.74%	
36) Perylene-d12	7.180	264	865997	4000.000 ng/ml	-0.02
Standard Area 1 = 833768			Recovery	= 103.87%	
System Monitoring Compounds					
2) 2-Fluorophenol	1.552	112	36948	482.321 ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 24.12%	
3) Phenol-d6	1.930	99	41867	449.292 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 22.46%	
7) Nitrobenzene-d5	2.382	82	74820	986.542 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 98.65%	
13) 2-Fluorobiphenyl	3.354	172	180430	845.015 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 84.50%	
21) 2,4,6-Tribromophenol	4.173	330	28229	907.272 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 45.36%	
30) 4-Terphenyl-d14	5.477	244	209115	896.525 ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 44.83%	
Target Compounds					Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d	
6) Hexachloroethane	0.000		0	N.D.	
9) Naphthalene	0.000		0	N.D. d	
10) Hexachlorobutadiene	0.000		0	N.D.	
11) 2-Methylnaphthalene	0.000		0	N.D. d	
14) 2-Chloronaphthalene	0.000		0	N.D. d	
16) Acenaphthylene	0.000		0	N.D. d	
18) Acenaphthene	0.000		0	N.D. d	
20) Fluorene	0.000		0	N.D. d	
24) Hexachlorobenzene	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-06.D
Acq On : 24 Sep 2024 07:38 pm
Operator : SV120:mrg
Sample : L2453720-06,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 24 20:17:03 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

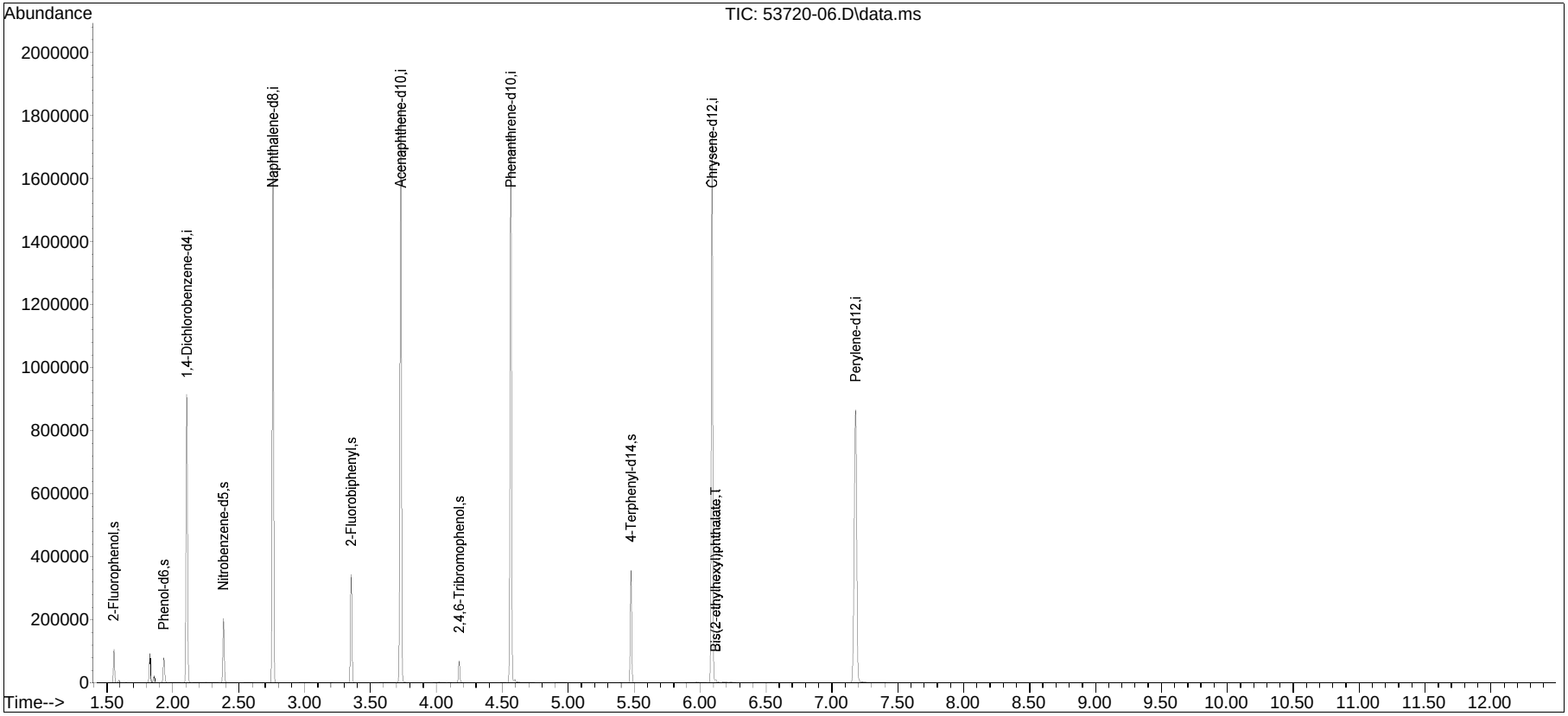
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-06.D
Acq On : 24 Sep 2024 07:38 pm
Operator : SV120:mrg
Sample : L2453720-06,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 24 20:17:03 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0924.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240924RVT	Method	: SIM-RVT_240728_sv120.M
Data File	: 53720-06.D	Operator	: SV120:mrg
Date Inj'd	: 9/24/2024 7:38 pm	Instrument	: SV120
Sample	: L2453720-06,32,,kmh	Quant Date	: 9/24/2024 7:51 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-07.D
Acq On : 24 Sep 2024 07:55 pm
Operator : SV120:mrg
Sample : L2453720-07,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 24 20:22:16 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.103	152	246280	4000.000	ng/ml	0.00
Standard Area 1 = 198000			Recovery = 124.38%			
8) Naphthalene-d8	2.759	136	951159	4000.000	ng/ml	# 0.00
Standard Area 1 = 762436			Recovery = 124.75%			
17) Acenaphthene-d10	3.728	164	549098	4000.000	ng/ml	0.00
Standard Area 1 = 445852			Recovery = 123.16%			
22) Phenanthrene-d10	4.563	188	1109768	4000.000	ng/ml	0.00
Standard Area 1 = 924365			Recovery = 120.06%			
31) Chrysene-d12	6.089	240	999415	4000.000	ng/ml	-0.02
Standard Area 1 = 850035			Recovery = 117.57%			
36) Perylene-d12	7.179	264	888685	4000.000	ng/ml	-0.02
Standard Area 1 = 833768			Recovery = 106.59%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.544	112	35115	480.023	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 24.00%			
3) Phenol-d6	1.930	99	37904	425.957	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 21.30%			
7) Nitrobenzene-d5	2.382	82	56224	776.325	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.63%			
13) 2-Fluorobiphenyl	3.355	172	136923	668.012	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 66.80%			
21) 2,4,6-Tribromophenol	4.173	330	27568	911.931	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.60%			
30) 4-Terphenyl-d14	5.473	244	167896	722.400	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 36.12%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	0.000		0	N.D.	d	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	0.000		0	N.D.	d	
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	
24) Hexachlorobenzene	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-07.D
Acq On : 24 Sep 2024 07:55 pm
Operator : SV120:mrg
Sample : L2453720-07,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 24 20:22:16 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.469	266	73M7	40.706	ng/ml	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

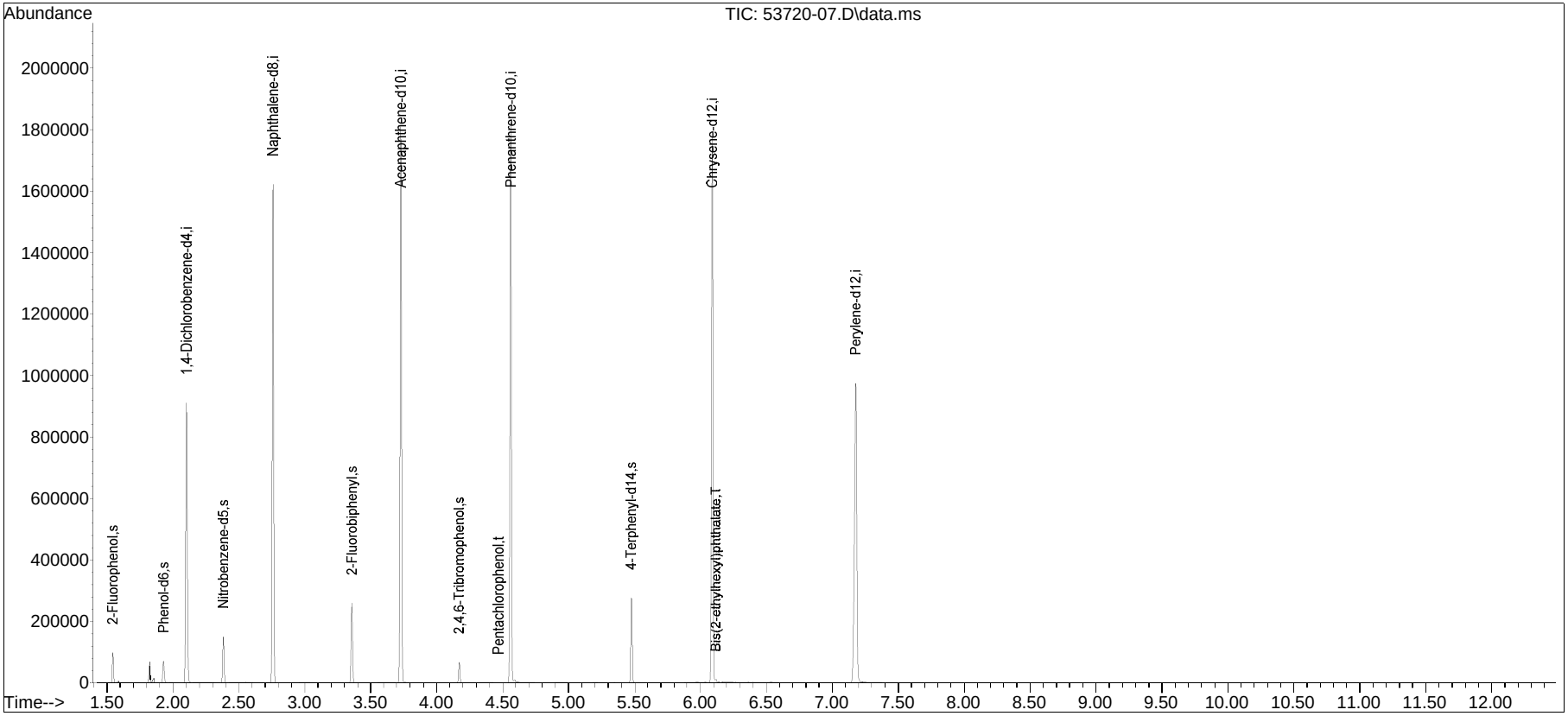
(#) = qualifier out of range (m) = manual integration (+) = signals summed

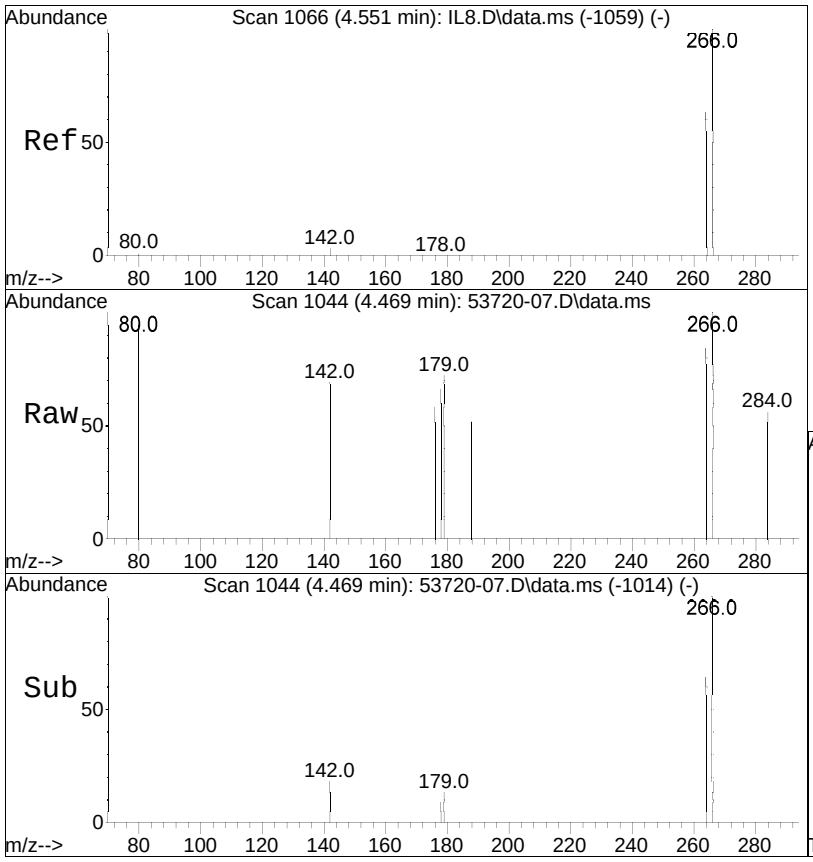
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 53720-07.D
Acq On : 24 Sep 2024 07:55 pm
Operator : SV120:mrg
Sample : L2453720-07,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 24 20:22:16 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0924.D•

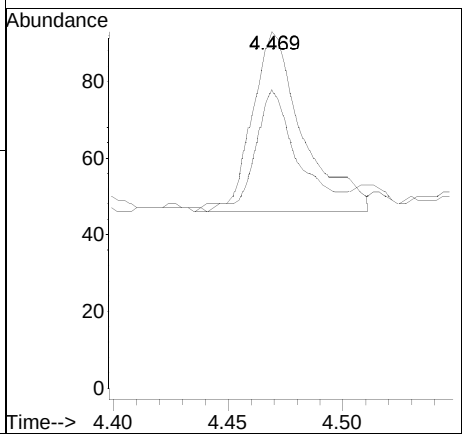




#25
Pentachlorophenol
Concen: 40.71 ng/ml M7
RT: 4.469 min Scan# 1044
Delta R.T. 0.004 min
Lab File: 53720-07.D
Acq: 24 Sep 2024 07:55 pm

Tgt Ion:266 Resp: 73

Ion	Ratio	Lower	Upper
266	100		
264	53.4	50.2	75.4

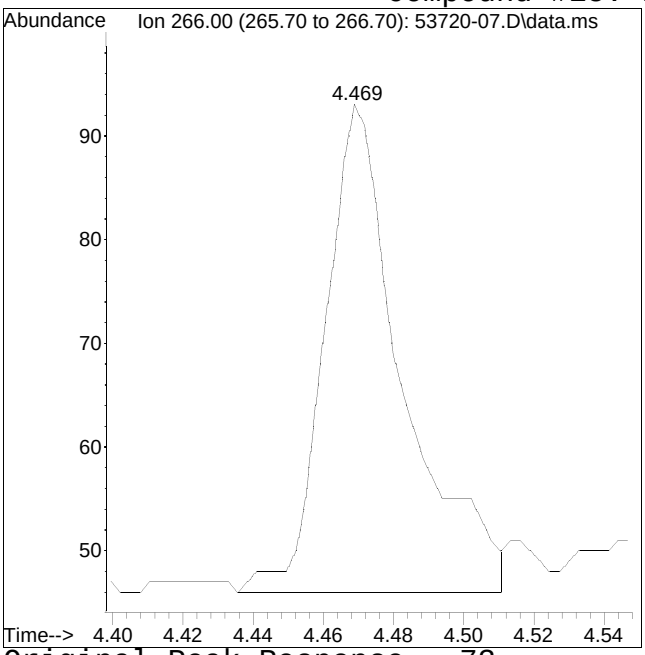


Manual Integration Report

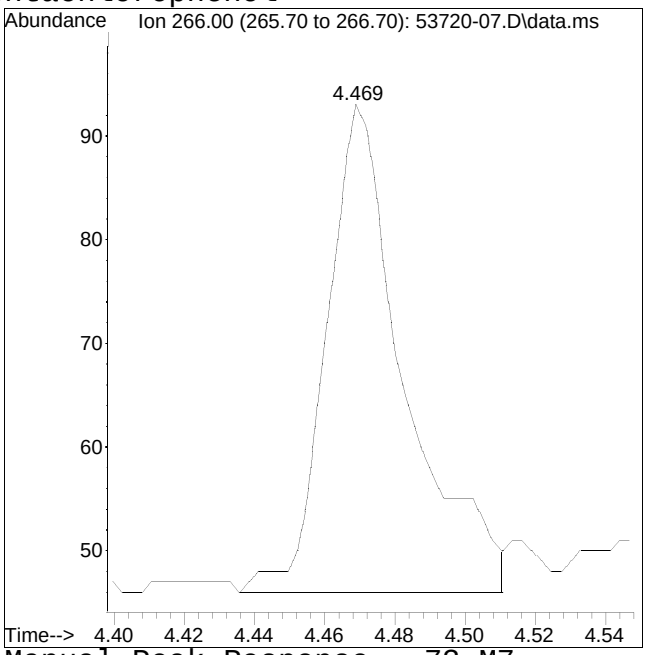
Data Path : I:\8270SIM\sv120\240924RVTQ
Data File : 53720-07.D
Date Inj'd : 9/24/2024 7:55 pm
Sample : L2453720-07,32,,kmh

Method : SIM-RVT_240728_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/24/2024 8:08 pm

Compound #25: Pentachlorophenol



Original Peak Response = 73



Manual Peak Response = 73 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : 53720-08.D
Acq On : 24 Sep 2024 10:52 pm
Operator : sv119:ljg
Sample : L2453720-08,32,,RR,mrg
Misc : WG1975503,WG1975326,ical21236
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 26 08:45:50 2024
Quant Method : I:\8270sim\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240924aRVT\ccv0924a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.203	152	209743	4000.000	ng/ml	-0.03
Standard Area 1 = 360674			Recovery = 58.15%			
8) Naphthalene-d8	2.859	136	742536	4000.000	ng/ml	-0.02
Standard Area 1 = 1297180			Recovery = 57.24%			
17) Acenaphthene-d10	3.831	164	474923	4000.000	ng/ml	-0.01
Standard Area 1 = 791976			Recovery = 59.97%			
22) Phenanthrene-d10	4.681	188	1024321	4000.000	ng/ml	0.00
Standard Area 1 = 1684497			Recovery = 60.81%			
31) Chrysene-d12	6.375	240	917593M6	4000.000	ng/ml	0.12
Standard Area 1 = 1616975			Recovery = 56.75%			
36) Perylene-d12	7.563	264	829069M6	4000.000	ng/ml	0.12
Standard Area 1 = 1491013			Recovery = 55.60%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.627	112	33005	446.088	ng/ml	-0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 22.30%			
3) Phenol-d6	2.022	99	34330	367.886	ng/ml	-0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 18.39%			
7) Nitrobenzene-d5	2.482	82	37405	456.966	ng/ml	-0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 45.70%			
13) 2-Fluorobiphenyl	3.450	172	107325	559.088	ng/ml	-0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 55.91%			
21) 2,4,6-Tribromophenol	4.277	330	36192	1091.435	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 54.57%			
30) 4-Terphenyl-d14	5.670	244	174734M1	617.068	ng/ml	0.07
Spiked Amount 2000.000	Range 30 - 130		Recovery = 30.85%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.871	128	472	2.302	ng/ml#	95
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.247	142	496	3.219	ng/ml	97
14) 2-Chloronaphthalene	0.000		0	N.D.		
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
20) Fluorene	0.000		0	N.D.	d	

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : 53720-08.D
Acq On : 24 Sep 2024 10:52 pm
Operator : sv119:ljg
Sample : L2453720-08,32,,RR,mrg
Misc : WG1975503,WG1975326,ical21236
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 26 08:45:50 2024
Quant Method : I:\8270sim\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240924aRVT\ccv0924a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) Hexachlorobenzene	0.000		0	N.D.		
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.693	178	687M6	2.307	ng/ml	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.		
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

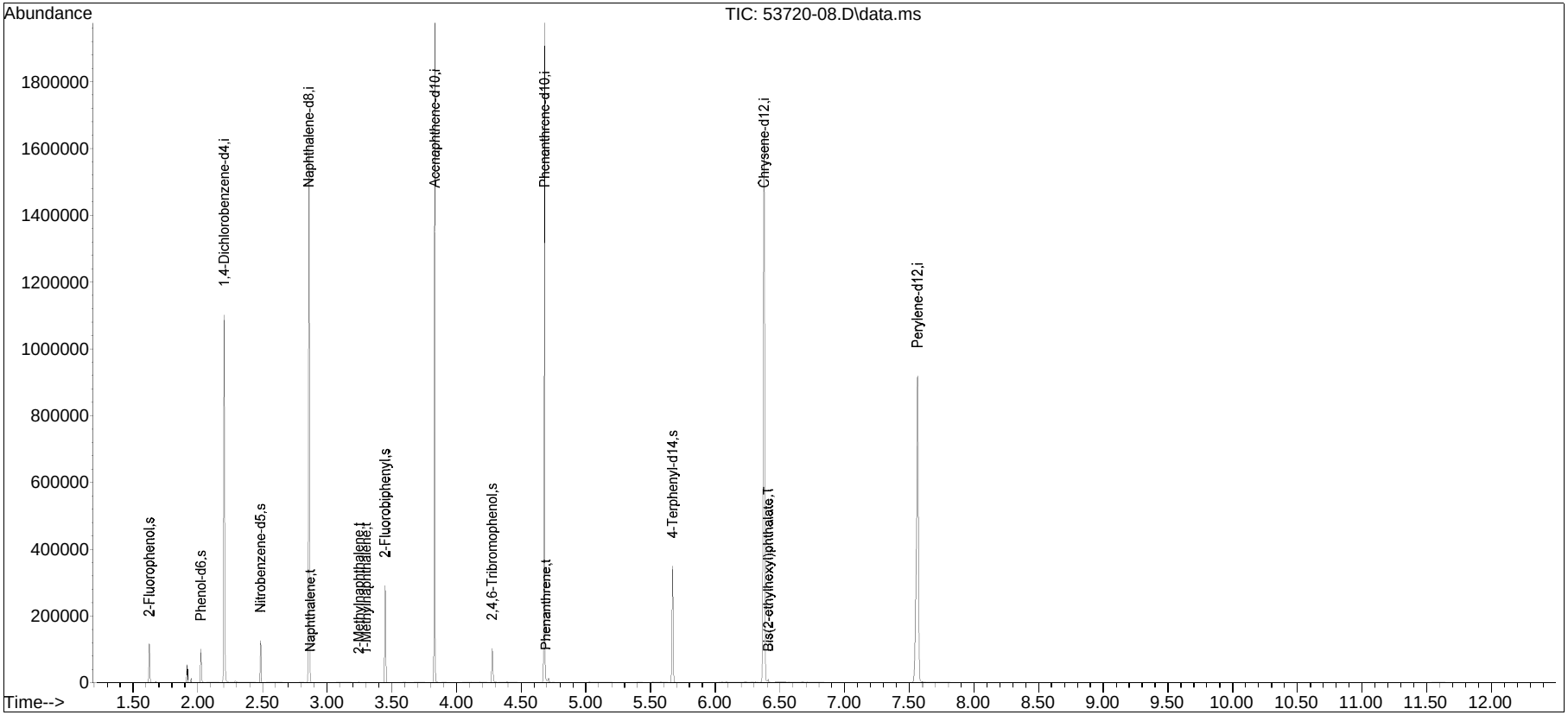
(#) = qualifier out of range (m) = manual integration (+) = signals summed

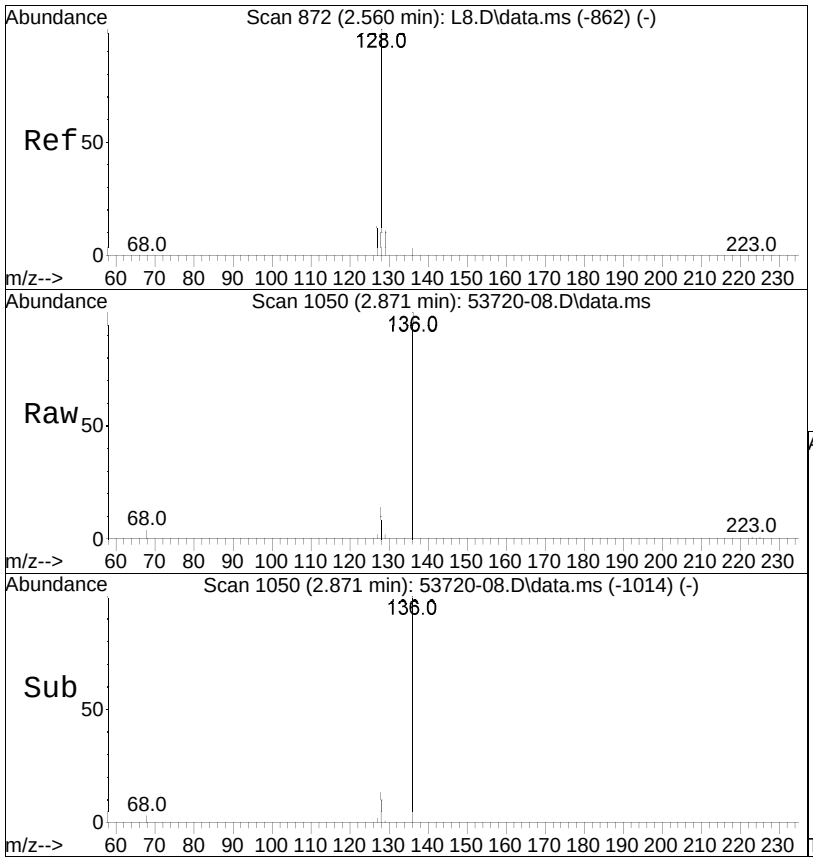
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : 53720-08.D
Acq On : 24 Sep 2024 10:52 pm
Operator : sv119:ljg
Sample : L2453720-08,32,,RR,mrg
Misc : WG1975503,WG1975326,ical21236
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 26 08:45:50 2024
Quant Method : I:\8270sim\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:01 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0924a.D•

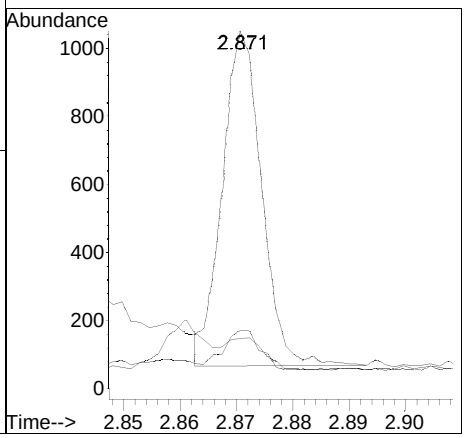


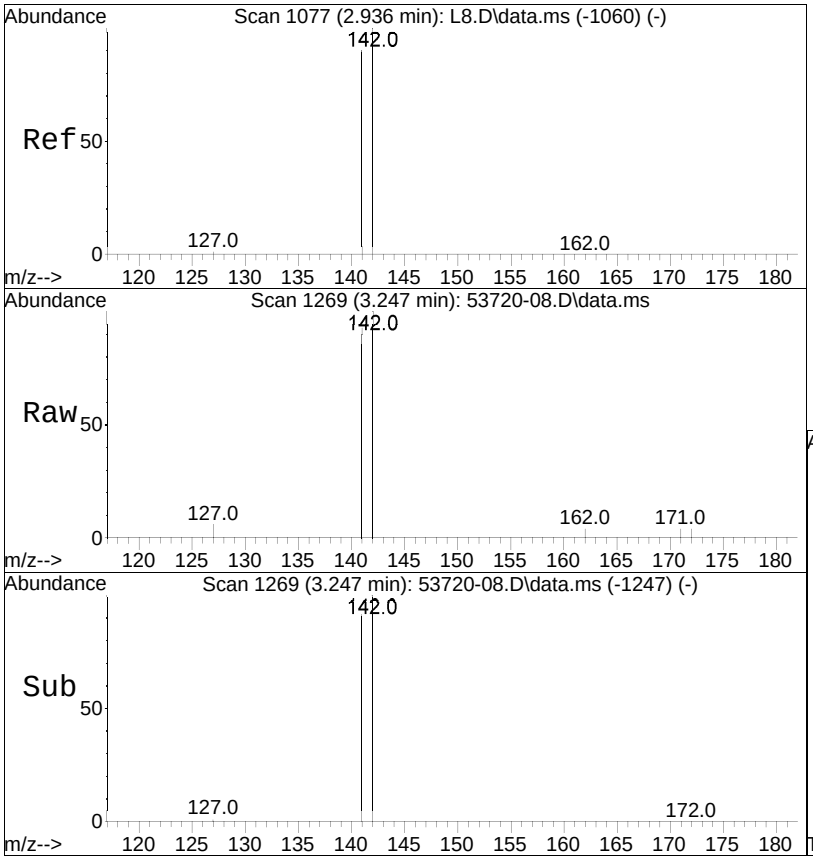


#9
Naphthalene
Concen: 2.30 ng/ml
RT: 2.871 min Scan# 1050
Delta R.T. -0.022 min
Lab File: 53720-08.D
Acq: 24 Sep 2024 10:52 pm

Tgt Ion:128 Resp: 472

Ion	Ratio	Lower	Upper
128	100		
129	8.9	9.0	13.4#
127	11.2	10.6	15.8

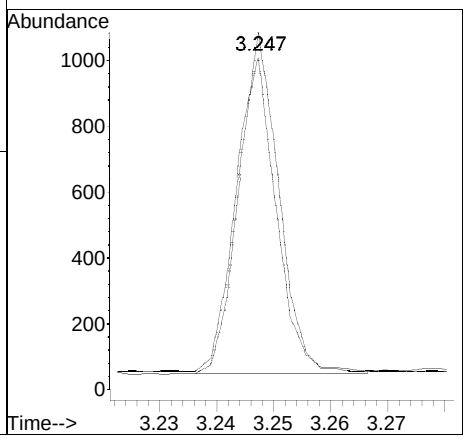


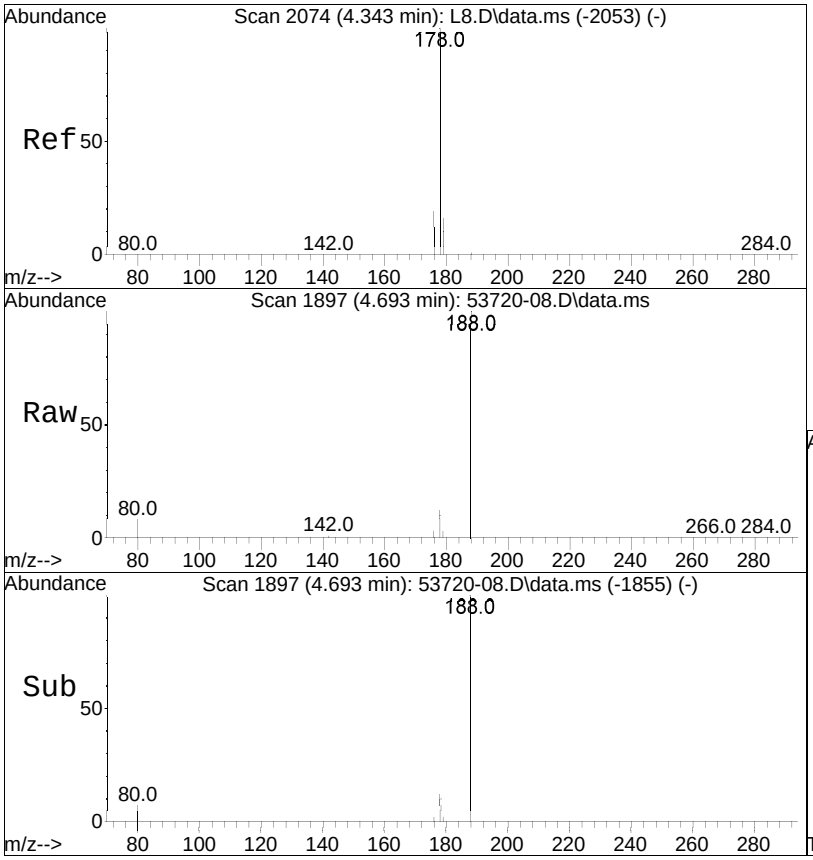


#11
2-Methylnaphthalene
Concen: 3.22 ng/ml
RT: 3.247 min Scan# 1269
Delta R.T. -0.019 min
Lab File: 53720-08.D
Acq: 24 Sep 2024 10:52 pm

Tgt Ion:142 Resp: 496

Ion	Ratio	Lower	Upper
142	100		
141	92.9	72.3	108.5

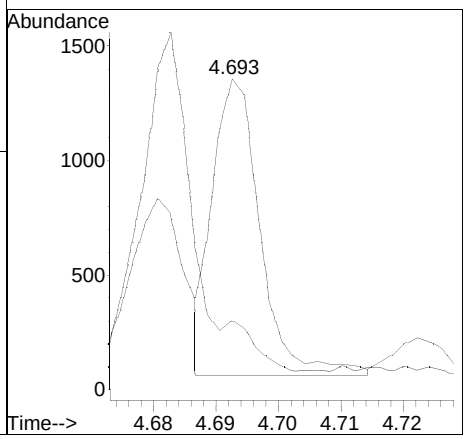




#26
Phenanthrene
Concen: 2.31 ng/ml M6
RT: 4.693 min Scan# 1897
Delta R.T. 0.002 min
Lab File: 53720-08.D
Acq: 24 Sep 2024 10:52 pm

Tgt Ion:178 Resp: 687

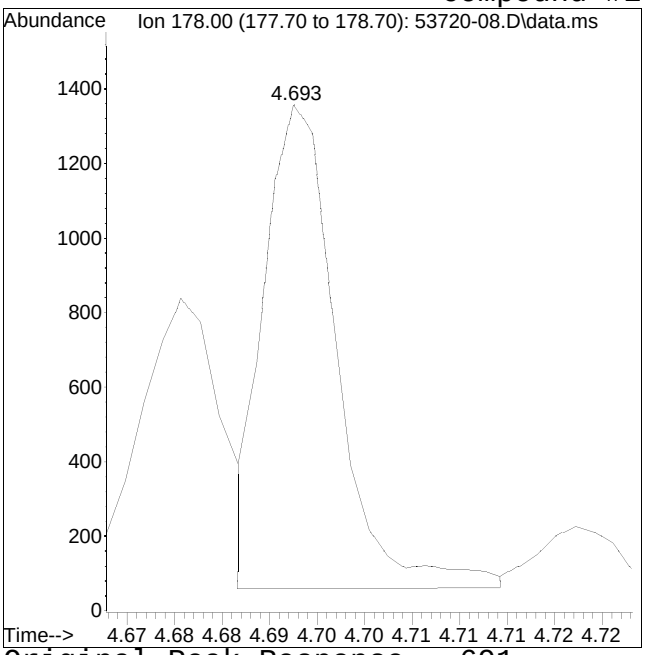
Ion	Ratio	Lower	Upper
178	100		
179	13.2	12.6	18.8



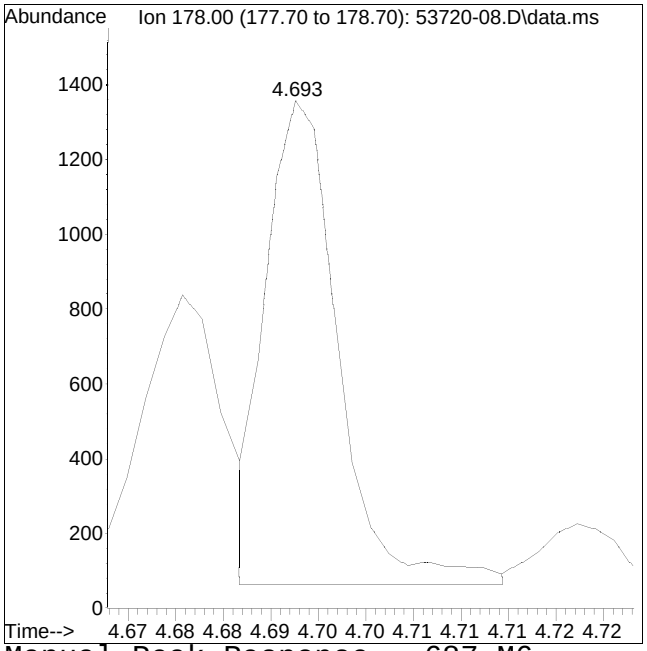
Manual Integration Report

Data Path : I:\8270SIM\sv119\240924aRVQMethod : SIM-RVT_240621_sv119.M
Data File : 53720-08.D Operator : sv119:ljg
Date Inj'd : 9/24/2024 10:52 pm Instrument : SV119
Sample : L2453720-08,32,,RR,mrg Quant Date : 9/24/2024 11:06 pm

Compound #26: Phenanthrene



Original Peak Response = 691



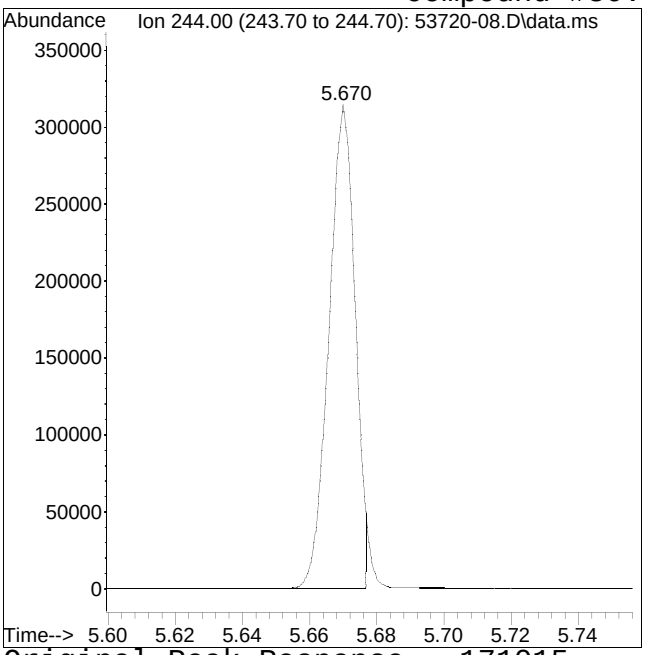
Manual Peak Response = 687 M6

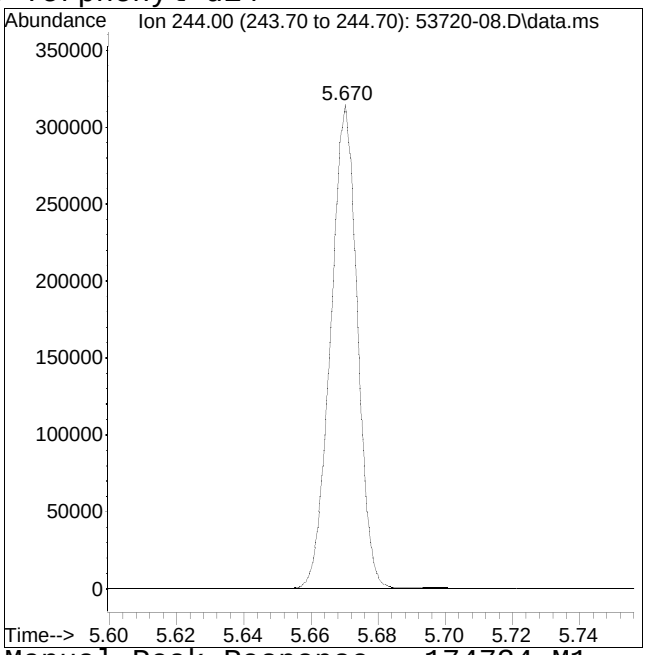
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240924aRVQMethod : SIM-RVT_240621_sv119.M
Data File : 53720-08.D Operator : sv119:ljg
Date Inj'd : 9/24/2024 10:52 pm Instrument : SV119
Sample : L2453720-08,32,,RR,mrg Quant Date : 9/24/2024 11:06 pm

Compound #30: 4-Terphenyl-d14





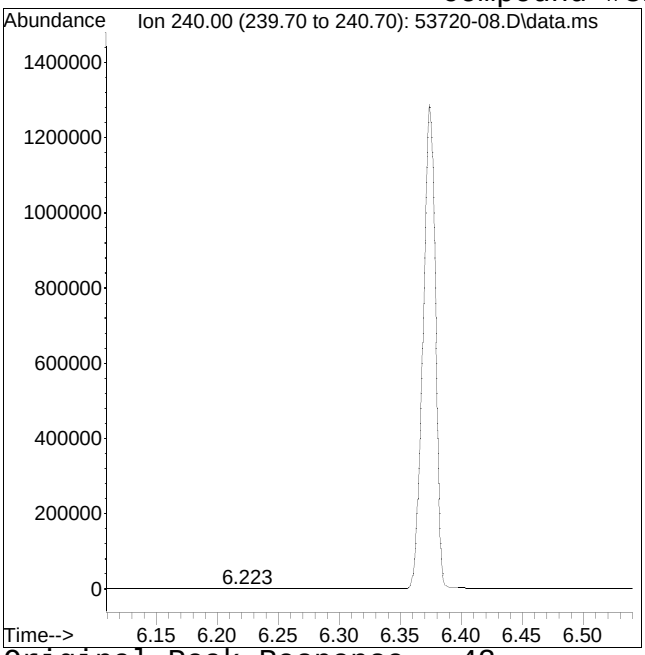
Original Peak Response = 171015 Manual Peak Response = 174734 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

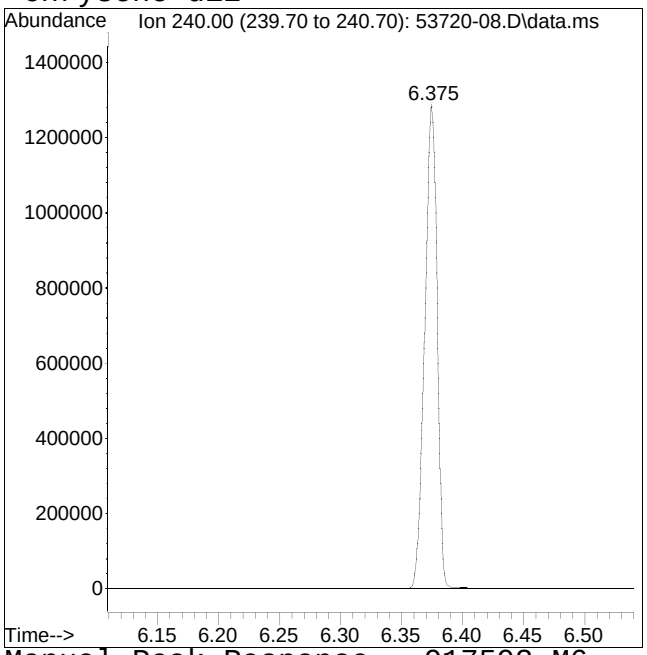
Manual Integration Report

Data Path : I:\8270SIM\sv119\240924aRVQMethod : SIM-RVT_240621_sv119.M
Data File : 53720-08.D Operator : sv119:ljg
Date Inj'd : 9/24/2024 10:52 pm Instrument : SV119
Sample : L2453720-08,32,,RR,mrg Quant Date : 9/24/2024 11:06 pm

Compound #31: Chrysene-d12



Original Peak Response = 42



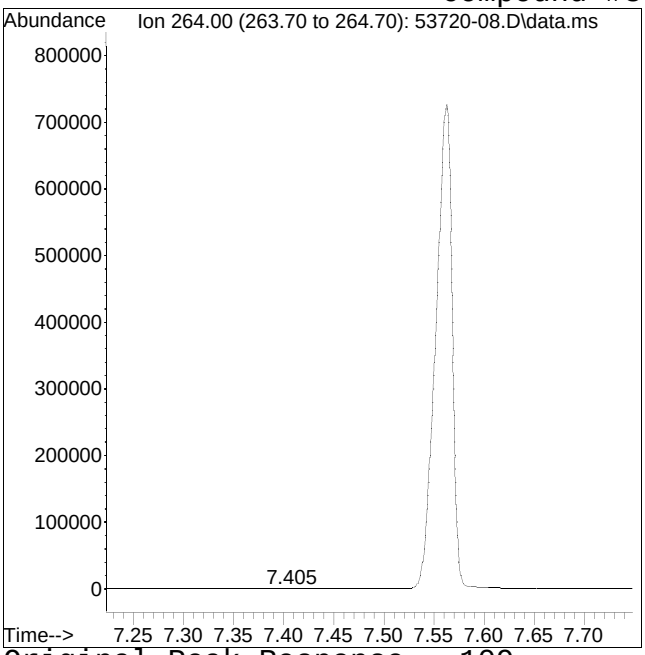
Manual Peak Response = 917593 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

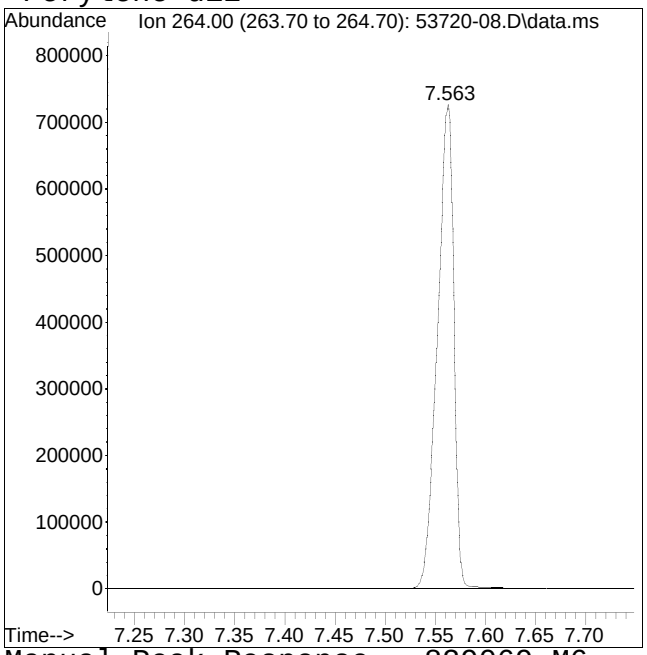
Manual Integration Report

Data Path : I:\8270SIM\sv119\240924aRVQMethod : SIM-RVT_240621_sv119.M
Data File : 53720-08.D Operator : sv119:ljg
Date Inj'd : 9/24/2024 10:52 pm Instrument : SV119
Sample : L2453720-08,32,,RR,mrg Quant Date : 9/24/2024 11:06 pm

Compound #36: Perylene-d12



Original Peak Response = 109



Manual Peak Response = 829069 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : 53720-09.D
Acq On : 24 Sep 2024 11:08 pm
Operator : sv119:ljg
Sample : L2453720-09,32,,RR,mrg
Misc : WG1975503,WG1975326,ical21236
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 26 08:50:15 2024
Quant Method : I:\8270sim\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240924aRVT\ccv0924a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.222	152	222979	4000.000	ng/ml	0.00
Standard Area 1 = 360674			Recovery = 61.82%			
8) Naphthalene-d8	2.875	136	799571	4000.000	ng/ml	0.00
Standard Area 1 = 1297180			Recovery = 61.64%			
17) Acenaphthene-d10	3.840	164	523633	4000.000	ng/ml	0.00
Standard Area 1 = 791976			Recovery = 66.12%			
22) Phenanthrene-d10	4.675	188	1156279	4000.000	ng/ml	0.00
Standard Area 1 = 1684497			Recovery = 68.64%			
31) Chrysene-d12	6.266	240	1092794	4000.000	ng/ml	0.01
Standard Area 1 = 1616975			Recovery = 67.58%			
36) Perylene-d12	7.446	264	914585	4000.000	ng/ml	0.00
Standard Area 1 = 1491013			Recovery = 61.34%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.649	112	45583	579.518	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 28.98%			
3) Phenol-d6	2.041	99	44520	448.764	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 22.44%			
7) Nitrobenzene-d5	2.499	82	48961	562.637	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 56.26%			
13) 2-Fluorobiphenyl	3.464	172	131171	634.567	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 63.46%			
21) 2,4,6-Tribromophenol	4.281	330	44316	1212.110	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 60.61%			
30) 4-Terphenyl-d14	5.605	244	207324	648.603	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 32.43%			

Target Compounds				Qvalue
4) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
6) Hexachloroethane	0.000	0	N.D.	
9) Naphthalene	0.000	0	N.D. d	
10) Hexachlorobutadiene	0.000	0	N.D.	
11) 2-Methylnaphthalene	0.000	0	N.D. d	
14) 2-Chloronaphthalene	0.000	0	N.D. d	
16) Acenaphthylene	0.000	0	N.D. d	
18) Acenaphthene	0.000	0	N.D. d	
20) Fluorene	0.000	0	N.D. d	
24) Hexachlorobenzene	0.000	0	N.D. d	

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : 53720-09.D
Acq On : 24 Sep 2024 11:08 pm
Operator : sv119:ljg
Sample : L2453720-09,32,,RR,mrg
Misc : WG1975503,WG1975326,ical21236
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 26 08:50:15 2024
Quant Method : I:\8270sim\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:01 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240924aRVT\ccv0924a.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

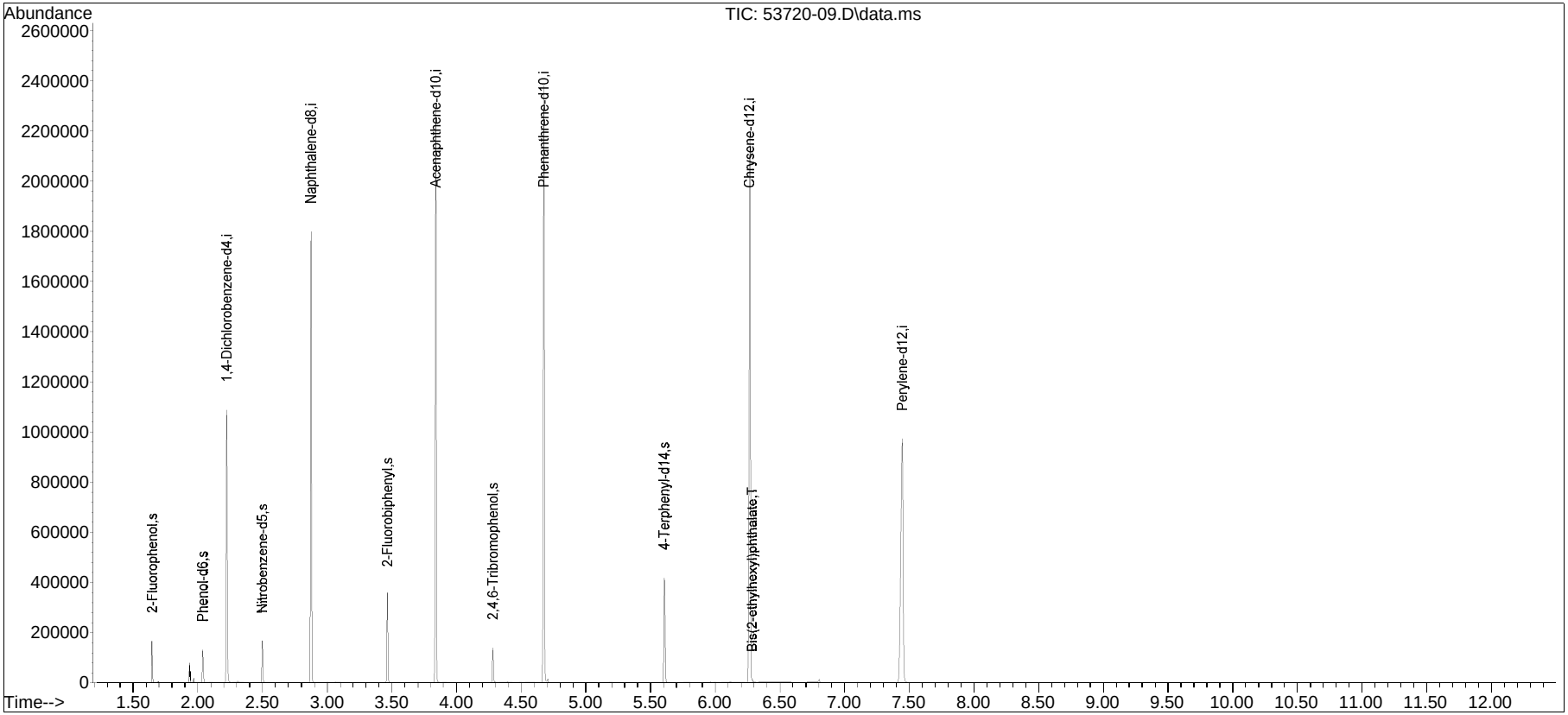
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : 53720-09.D
Acq On : 24 Sep 2024 11:08 pm
Operator : sv119:ljg
Sample : L2453720-09,32,,RR,mrg
Misc : WG1975503,WG1975326,ical21236
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 26 08:50:15 2024
Quant Method : I:\8270sim\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:01 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0924a.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\240924a	RVQMethod	: SIM-RVT_240621_sv119.M
Data File	: 53720-09.D	Operator	: sv119:ljg
Date Inj'd	: 9/24/2024 11:08 pm	Instrument	: SV119
Sample	: L2453720-09,32,,RR,mrg	Quant Date	: 9/24/2024 11:22 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : 53720-02.D
Acq On : 25 Sep 2024 01:48 pm
Operator : sv119:im
Sample : L2453720-02,32,,kmh
Misc : WG1976035,WG1975326,ical21236
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 25 14:26:28 2024
Quant Method : I:\8270sim\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240925RVT\ccv0925.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.231	152	173829	4000.000	ng/ml	0.00
Standard Area 1 = 191752			Recovery = 90.65%			
8) Naphthalene-d8	2.884	136	595628	4000.000	ng/ml	0.00
Standard Area 1 = 679198			Recovery = 87.70%			
17) Acenaphthene-d10	3.844	164	378867	4000.000	ng/ml	0.00
Standard Area 1 = 435185			Recovery = 87.06%			
22) Phenanthrene-d10	4.678	188	834368	4000.000	ng/ml	0.00
Standard Area 1 = 971629			Recovery = 85.87%			
31) Chrysene-d12	6.246	240	937915	4000.000	ng/ml	0.00
Standard Area 1 = 1032016			Recovery = 90.88%			
36) Perylene-d12	7.428	264	881672	4000.000	ng/ml	0.00
Standard Area 1 = 1026679			Recovery = 85.88%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.664	112	47068	767.594	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 38.38%			
3) Phenol-d6	2.052	99	42564	550.360	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 27.52%			
7) Nitrobenzene-d5	2.509	82	43944	647.768	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 64.78%			
13) 2-Fluorobiphenyl	3.470	172	114078	740.838	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.08%			
21) 2,4,6-Tribromophenol	4.287	330	35332	1335.642	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 66.78%			
30) 4-Terphenyl-d14	5.598	244	155437	673.890	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 33.69%			

Target Compounds				Qvalue
4) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
6) Hexachloroethane	0.000	0	N.D.	
9) Naphthalene	0.000	0	N.D. d	
10) Hexachlorobutadiene	0.000	0	N.D.	
11) 2-Methylnaphthalene	0.000	0	N.D. d	
14) 2-Chloronaphthalene	0.000	0	N.D. d	
16) Acenaphthylene	0.000	0	N.D. d	
18) Acenaphthene	0.000	0	N.D. d	
20) Fluorene	0.000	0	N.D. d	
24) Hexachlorobenzene	0.000	0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : 53720-02.D
Acq On : 25 Sep 2024 01:48 pm
Operator : sv119:im
Sample : L2453720-02,32,,kmh
Misc : WG1976035,WG1975326,ical21236
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 25 14:26:28 2024
Quant Method : I:\8270sim\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240925RVT\ccv0925.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.		
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

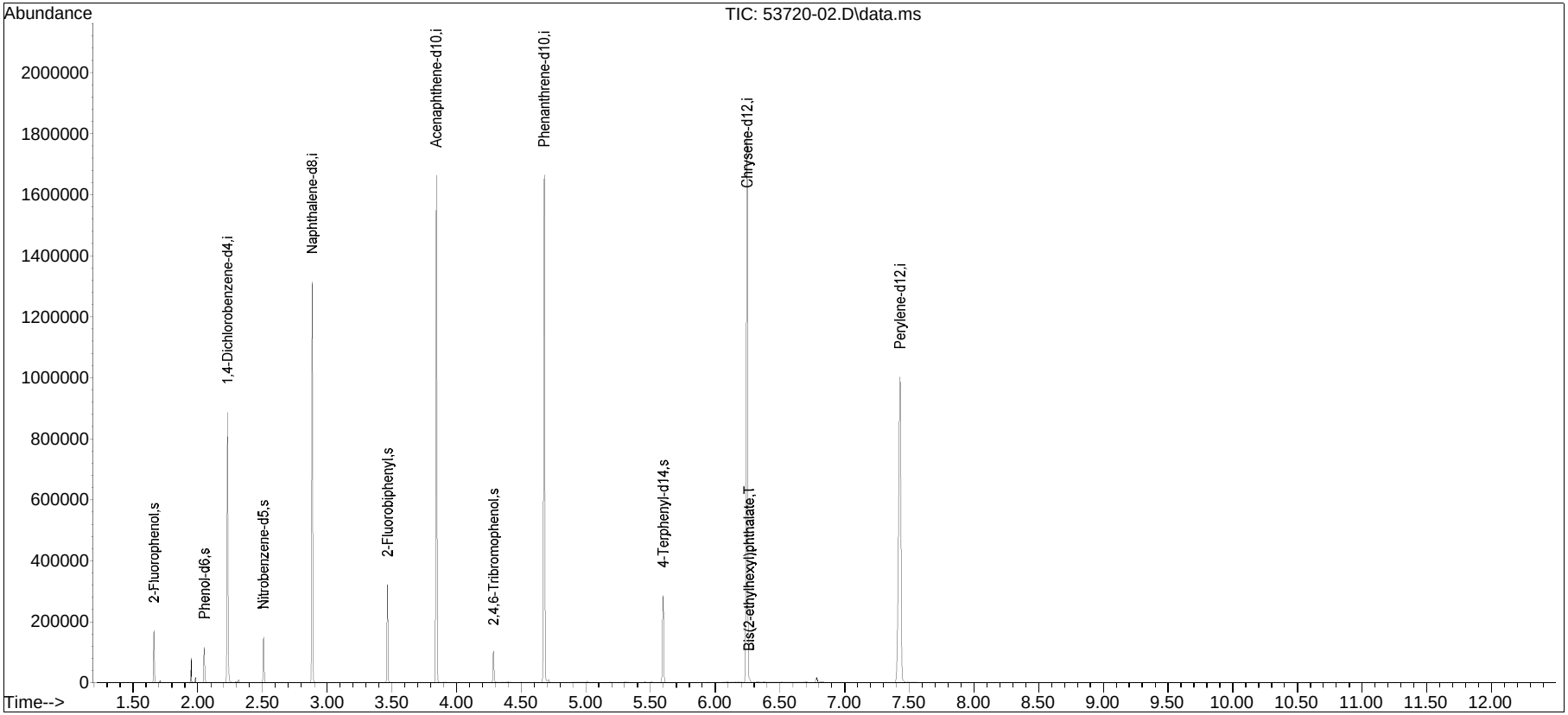
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : 53720-02.D
Acq On : 25 Sep 2024 01:48 pm
Operator : sv119:im
Sample : L2453720-02,32,,kmh
Misc : WG1976035,WG1975326,ical21236
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 25 14:26:28 2024
Quant Method : I:\8270sim\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:19 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0925.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\240925RVTQ	Method	: SIM-RVT_240621_sv119.M
Data File	: 53720-02.D	Operator	: sv119:im
Date Inj'd	: 9/25/2024 1:48 pm	Instrument	: SV119
Sample	: L2453720-02,32,,kmh	Quant Date	: 9/25/2024 2:02 pm

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL21236**
Calibration dates	**: 06/21/24 14:50 06/21/24 17:17**		

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
L10 =L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	s	2-Fluorophenol		1.499	1.440	1.417	1.513	1.488	1.487	1.409	1.284	1.164	1.411	8.23
3)	s	Phenol-d6		1.805	1.715	1.711	1.852	1.844	1.895	1.850	1.746	1.599	1.780	5.29
4)	T	bis(2-Chloroethyl)ether		1.538	1.382	1.469	1.494	1.536	1.496	1.423	1.319	1.210	1.430	7.67
5)	T	n-Nitrosodi-n-propylamine		1.104	1.054	1.014	1.042	1.052	1.153	1.155	1.161	1.060	1.088	5.15
6)	t	Hexachloroethane		0.789	0.699	0.682	0.667	0.665	0.668	0.646	0.604	0.553	0.664	9.73
7)	s	Nitrobenzene-d5		1.726	1.409	1.445	1.599	1.619	1.677	1.630	1.542	1.403	1.561	7.58
8)	i	Naphthalene-d8	----------ISTD----------											
9)	t	Naphthalene	1.150	1.261	1.157	1.120	1.128	1.109	1.109	1.084	1.006	0.917	1.104	8.29
10)	t	Hexachlorobutadiene		0.293	0.265	0.250	0.264	0.255	0.250	0.239	0.218	0.198	0.248	11.13
11)	t	2-Methylnaphthalene	0.784	0.827	0.829	0.853	0.903	0.905	0.892	0.847	0.776	0.683	0.830	8.24
12)	t	1-Methylnaphthalene	0.852	0.881	0.857	0.822	0.838	0.844	0.815	0.773	0.711	0.630	0.802	9.67
13)	s	2-Fluorobiphenyl		1.142	1.059	1.142	1.147	1.151	1.061	0.980	0.870	0.755	1.034	13.63
14)	t	2-Chloronaphthalene		0.945	0.925	0.926	0.969	0.949	0.918	0.880	0.815	0.721	0.894	8.84
15)	t	2,6-Dinitrotoluene					0.228	0.238	0.260	0.258	0.247	0.214	0.241	7.37
16)	t	Acenaphthylene	1.511	1.519	1.431	1.482	1.513	1.484	1.478	1.415	1.311	1.141	1.429	8.32
17)	i	Acenaphthene-d10	----------ISTD----------											
18)	t	Acenaphthene	1.624	1.531	1.354	1.345	1.412	1.407	1.429	1.389	1.290	1.181	1.396	8.73
19)	t	2,4-Dinitrotoluene					0.468	0.515	0.600	0.596	0.545	0.486	0.535	10.35
20)	t	Fluorene	2.024	2.081	1.887	1.844	1.914	1.911	1.898	1.803	1.618	1.423	1.840	10.44
21)	s	2,4,6-Tribromophenol		0.280	0.250	0.256	0.280	0.284	0.315	0.309	0.287	0.254	0.279	8.25
22)	i	Phenanthrene-d10	----------ISTD----------											
23)	T	4,6-Dinitro-o-cresol					0.096	0.107	0.157	0.163	0.168	0.160	*Q	0.9994
24)	t	Hexachlorobenzene		0.325	0.283	0.293	0.299	0.290	0.281	0.261	0.232	0.207	0.275	13.07
25)	t	Pentachlorophenol			0.104	0.091	0.104	0.117	0.169	0.178	0.183		*Q	0.9975
26)	t	Phenanthrene	1.429	1.353	1.140	1.122	1.156	1.163	1.160	1.120	1.037	0.949	1.163	11.91
27)	t	Anthracene	1.386	1.332	1.163	1.148	1.209	1.223	1.254	1.206	1.098	0.996	1.201	9.26
28)	t	Fluoranthene		2.024	1.664	1.691	1.738	1.716	1.610	1.495	1.280	1.154	1.597	16.22
29)	t	Pyrene		2.103	1.785	1.749	1.824	1.772	1.637	1.528	1.298	1.195	1.655	16.87
30)	s	4-Terphenyl-d14			1.312	1.248	1.271	1.235	1.110	1.026	0.852	0.791	1.106	17.97
31)	i	Chrysene-d12	----------ISTD----------											
32)	t	Benzo[a]anthracene		7.571	3.798	2.602	1.853	1.665	1.630	1.616	1.504	1.473	*L	0.9990
33)	t	3,3'-Dichlorobenzene					0.567	0.588	0.657	0.660	0.614	0.579	0.611	6.57
34)	t	Chrysene	1.711	1.595	1.403	1.409	1.460	1.464	1.512	1.516	1.433	1.384	1.489	6.76
35)	T	bis(2-Ethylhexyl)phthalate					0.830	0.858	1.029	1.097	1.115	1.082	*L	0.9996
36)	i	Perylene-d12	----------ISTD----------											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL21236**
Calibration dates	**: 06/21/24 14:50 06/21/24 17:17**		

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
L10 =L10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene	1.975	1.900	1.600	1.691	1.716	1.761	1.653	1.617	1.405	1.248	1.657	12.90
38) t	Benzo[k]fluoranthene			1.744	1.675	1.775	1.675	1.559	1.403	1.269	1.144	1.531	15.26
39) t	Benzo[a]pyrene	1.765	1.646	1.432	1.422	1.491	1.502	1.494	1.441	1.291	1.190	1.467	11.01
40) t	Indeno[1,2,3-cd]pyrene	1.835	1.611	1.346	1.389	1.476	1.489	1.478	1.483	1.373	1.352	1.483	9.98
41) t	Dibenzo[a,h]anthracene	1.555	1.453	1.258	1.272	1.378	1.353	1.305	1.289	1.196	1.155	1.321	8.99
42) t	Benzo[g,h,i]perylene	1.810	1.648	1.414	1.376	1.486	1.459	1.431	1.397	1.302	1.267	1.459	11.08

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21368**
Calibration dates	**: 07/28/24 16:50 07/28/24 19:15**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.200	1.265	1.191	1.180	1.168	1.207	1.198	1.179	1.175	1.117	1.188	3.11
3)	s	Phenol-d6		1.568	1.393	1.412	1.393	1.441	1.451	1.437	1.474	1.440	1.445	3.67
4)	T	bis(2-Chloroethyl)ether		1.630	1.353	1.310	1.279	1.292	1.294	1.244	1.239	1.193	1.315	9.65
5)	T	n-Nitrosodi-n-propylamine		0.925	0.841	0.819	0.799	0.836	0.866	0.879	0.934	0.932	0.870	5.85
6)	t	Hexachloroethane			0.587	0.565	0.551	0.566	0.564	0.552	0.557	0.547	0.561	2.27
7)	s	Nitrobenzene-d5		1.158	1.123	1.115	1.118	1.171	1.200	1.210	1.258	1.234	1.176	4.47
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.315	1.282	1.192	1.180	1.111	1.128	1.103	1.075	1.074	1.028	1.149	8.10
10)	t	Hexachlorobutadiene			0.208	0.208	0.200	0.202	0.196	0.191	0.190	0.184	0.197	4.50
11)	t	2-Methylnaphthalene		0.786	0.729	0.737	0.716	0.734	0.730	0.718	0.721	0.691	0.729	3.47
12)	t	1-Methylnaphthalene		0.749	0.678	0.687	0.674	0.685	0.678	0.664	0.666	0.643	0.680	4.23
13)	s	2-Fluorobiphenyl	0.901	0.948	0.870	0.871	0.854	0.879	0.855	0.827	0.829	0.786	0.862	5.11
14)	t	2-Chloronaphthalene		0.812	0.745	0.744	0.726	0.748	0.742	0.725	0.728	0.697	0.741	4.19
15)	t	2,6-Dinitrotoluene					0.106	0.117	0.143	0.154	0.170	0.168	*L	0.9985
16)	t	Acenaphthylene	1.042	1.058	1.016	1.009	1.003	1.050	1.111	1.115	1.139	1.092	1.063	4.54
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene		1.603	1.465	1.533	1.431	1.443	1.415	1.368	1.384	1.340	1.442	5.75
19)	t	2,4-Dinitrotoluene					0.238	0.273	0.347	0.371	0.406	0.404	*L	0.9987
20)	t	Fluorene	1.827	1.759	1.571	1.547	1.495	1.559	1.589	1.541	1.567	1.529	1.598	6.69
21)	s	2,4,6-Tribromophenol				0.168	0.178	0.205	0.238	0.242	0.257	0.254	0.220	16.45
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.040	0.055	0.081	0.091	0.106	0.112	*Q	0.9987
24)	t	Hexachlorobenzene	0.332	0.300	0.276	0.279	0.270	0.279	0.276	0.266	0.266	0.260	0.280	7.57
25)	t	Pentachlorophenol					0.037	0.062	0.102	0.125	0.154	0.163	*Q	0.9973
26)	t	Phenanthrene			1.242	1.261	1.225	1.211	1.186	1.140	1.134	1.104	1.188	4.77
27)	t	Anthracene			1.187	1.162	1.111	1.139	1.161	1.146	1.150	1.111	1.146	2.26
28)	t	Fluoranthene			1.329	1.308	1.253	1.289	1.318	1.286	1.270	1.215	1.283	2.89
29)	t	Pyrene			1.359	1.326	1.300	1.346	1.407	1.353	1.338	1.268	1.337	3.10
30)	s	4-Terphenyl-d14		0.977	0.856	0.843	0.815	0.835	0.845	0.815	0.795	0.759	0.838	7.19
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene			3.931	2.673	1.652	1.513	1.496	1.499	1.504	1.517	*L	0.9998
33)	t	3,3'-Dichlorobenzene					0.356	0.396	0.488	0.520	0.572	0.581	*L	0.9983
34)	t	Chrysene			1.457	1.446	1.437	1.487	1.517	1.418	1.459	1.418	1.455	2.32
35)	T	bis(2-Ethylhexyl)phthalate					0.520	0.578	0.789	0.884	1.032	1.080	*Q	0.9986
36)	i	Perylene-d12	ISTD											

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: SV120**	**Ical Ref**	**: ICAL21368**
Calibration dates	**: 07/28/24 16:50 07/28/24 19:15**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene		1.356	1.293	1.226	1.258	1.350	1.442	1.336	1.472	1.420	1.350	6.18
38) t	Benzo[k]fluoranthene		1.318	1.181	1.222	1.143	1.201	1.332	1.400	1.309	1.343	1.272	6.87
39) t	Benzo[a]pyrene		1.021	0.941	0.949	0.949	1.025	1.169	1.180	1.237	1.246	1.080	11.83
40) t	Indeno[1,2,3-cd]pyrene			0.878	0.889	0.873	0.921	1.036	1.062	1.171	1.265	1.012	14.62
41) t	Dibenzo[a,h]anthracene			0.776	0.799	0.808	0.900	1.015	1.041	1.113	1.144	0.950	15.53
42) t	Benzo[g,h,i]perylene		1.012	0.913	0.926	0.918	0.993	1.077	1.095	1.162	1.212	1.034	10.58

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\240621RVTical\
Method File : SIM-RVT_240621_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 26 12:41:11 2024
Response Via : Initial Calibration

Calibration Files
L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
L10 =L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.499	1.440	1.417	1.513	1.488	1.487	1.409	1.284	1.164	1.411		8.23
3)	s	Phenol-d6	1.805	1.715	1.711	1.852	1.844	1.895	1.850	1.746	1.599	1.780		5.29
4)	T	bis(2-Chloroethyl)ether	1.538	1.382	1.469	1.494	1.536	1.496	1.423	1.319	1.210	1.430		7.67
5)	T	n-Nitrosodi-n-propylamine	1.104	1.054	1.014	1.042	1.052	1.153	1.155	1.161	1.060	1.088		5.15
6)	t	Hexachloroethane	0.789	0.699	0.682	0.667	0.665	0.668	0.646	0.604	0.553	0.664		9.73
7)	s	Nitrobenzene-d5	1.726	1.409	1.445	1.599	1.619	1.677	1.630	1.542	1.403	1.561		7.58
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.150	1.261	1.157	1.120	1.128	1.109	1.109	1.084	1.006	0.917	1.104	8.29
10)	t	Hexachlorobutadiene	0.293	0.265	0.250	0.264	0.255	0.250	0.239	0.218	0.198	0.248		11.13
11)	t	2-Methylnaphthalene	0.784	0.827	0.829	0.853	0.903	0.905	0.892	0.847	0.776	0.683	0.830	8.24
12)	t	1-Methylnaphthalene	0.852	0.881	0.857	0.822	0.838	0.844	0.815	0.773	0.711	0.630	0.802	9.67
13)	s	2-Fluorobiphenyl	1.142	1.059	1.142	1.147	1.151	1.061	0.980	0.870	0.755	1.034		13.63
14)	t	2-Chloronaphthalene	0.945	0.925	0.926	0.969	0.949	0.918	0.880	0.815	0.721	0.894		8.84
15)	t	2,6-Dinitrotoluene	0.228	0.238	0.260	0.258	0.247	0.214	0.241					7.37
16)	t	Acenaphthylene	1.511	1.519	1.431	1.482	1.513	1.484	1.478	1.415	1.311	1.141	1.429	8.32
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene	1.624	1.531	1.354	1.345	1.412	1.407	1.429	1.389	1.290	1.181	1.396	8.73
19)	t	2,4-Dinitrotoluene	0.468	0.515	0.600	0.596	0.545	0.486	0.535					10.35
20)	t	Fluorene	2.024	2.081	1.887	1.844	1.914	1.911	1.898	1.803	1.618	1.423	1.840	10.44
21)	s	2,4,6-Tribromophenol	0.280	0.250	0.256	0.280	0.284	0.315	0.309	0.287	0.254	0.279		8.25
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol	0.096	0.107	0.157	0.163	0.168	0.160	*Q					0.9994
24)	t	Hexachlorobenzene	0.325	0.283	0.293	0.299	0.290	0.281	0.261	0.232	0.207	0.275		13.07
25)	t	Pentachlorophenol	0.104	0.091	0.104	0.117	0.169	0.178	0.183	*Q				0.9975
26)	t	Phenanthrene	1.429	1.353	1.140	1.122	1.156	1.163	1.160	1.120	1.037	0.949	1.163	11.91
27)	t	Anthracene	1.386	1.332	1.163	1.148	1.209	1.223	1.254	1.206	1.098	0.996	1.201	9.26
28)	t	Fluoranthene	2.024	1.664	1.691	1.738	1.716	1.610	1.495	1.280	1.154	1.597		16.22
29)	t	Pyrene	2.103	1.785	1.749	1.824	1.772	1.637	1.528	1.298	1.195	1.655		16.87
30)	s	4-Terphenyl-d14	1.312	1.248	1.271	1.235	1.110	1.026	0.852	0.791	1.106			17.97
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene	7.571	3.798	2.602	1.853	1.665	1.630	1.616	1.504	1.473	*L		0.9990
33)	t	3,3'-Dichlorob...	0.567	0.588	0.657	0.660	0.614	0.579	0.611					6.57
34)	t	Chrysene	1.711	1.595	1.403	1.409	1.460	1.464	1.512	1.516	1.433	1.384	1.489	6.76
35)	T	bis(2-Ethylhexyl)phthalate	0.830	0.858	1.029	1.097	1.115	1.082	*L					0.9996
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...	1.975	1.900	1.600	1.691	1.716	1.761	1.653	1.617	1.405	1.248	1.657	12.90
38)	t	Benzo[k]fluora...	1.744	1.675	1.775	1.675	1.559	1.403	1.269	1.144	1.531			15.26
39)	t	Benzo[a]pyrene	1.765	1.646	1.432	1.422	1.491	1.502	1.494	1.441	1.291	1.190	1.467	11.01
40)	t	Indeno[1,2,3-c...	1.835	1.611	1.346	1.389	1.476	1.489	1.478	1.483	1.373	1.352	1.483	9.98
41)	t	Dibenzo[a,h]anthracene	1.555	1.453	1.258	1.272	1.378	1.353	1.305	1.289	1.196	1.155	1.321	8.99
42)	t	Benzo[g,h,i]pe...	1.810	1.648	1.414	1.376	1.486	1.459	1.431	1.397	1.302	1.267	1.459	11.08

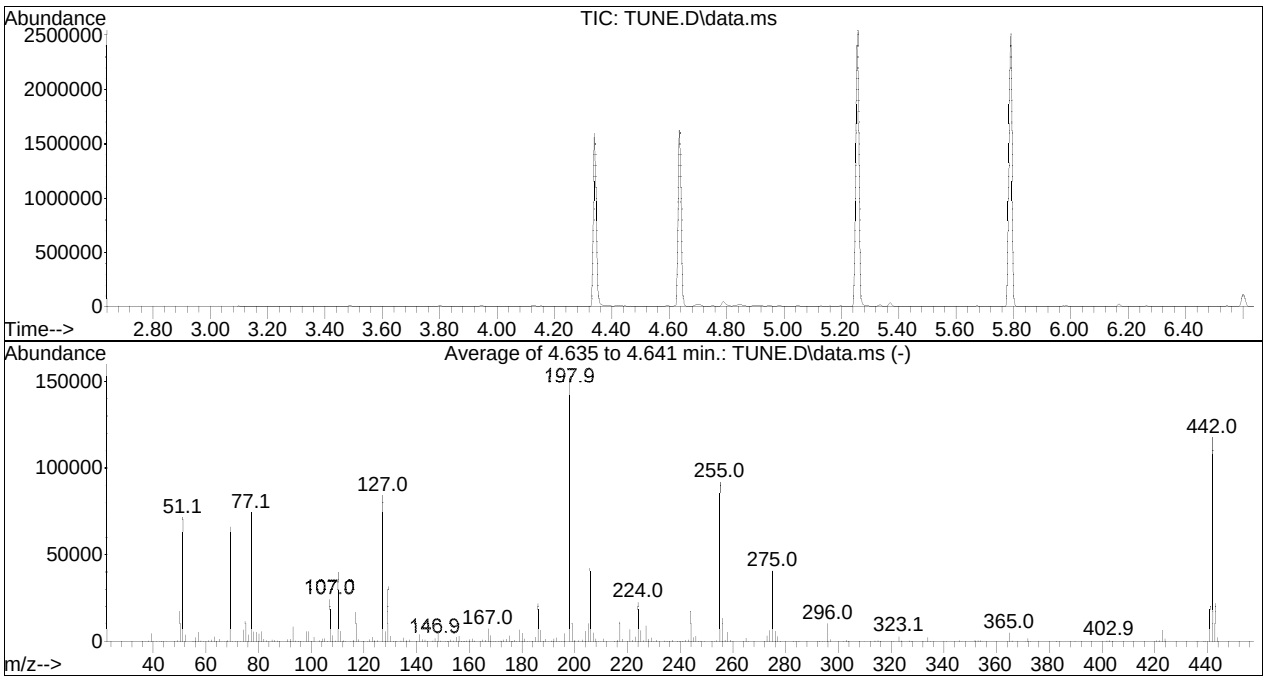
(#) = Out of Range

DFTPP

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : TUNE.D
Acq On : 21 Jun 2024 02:09 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1939716,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 26 12:41:11 2024



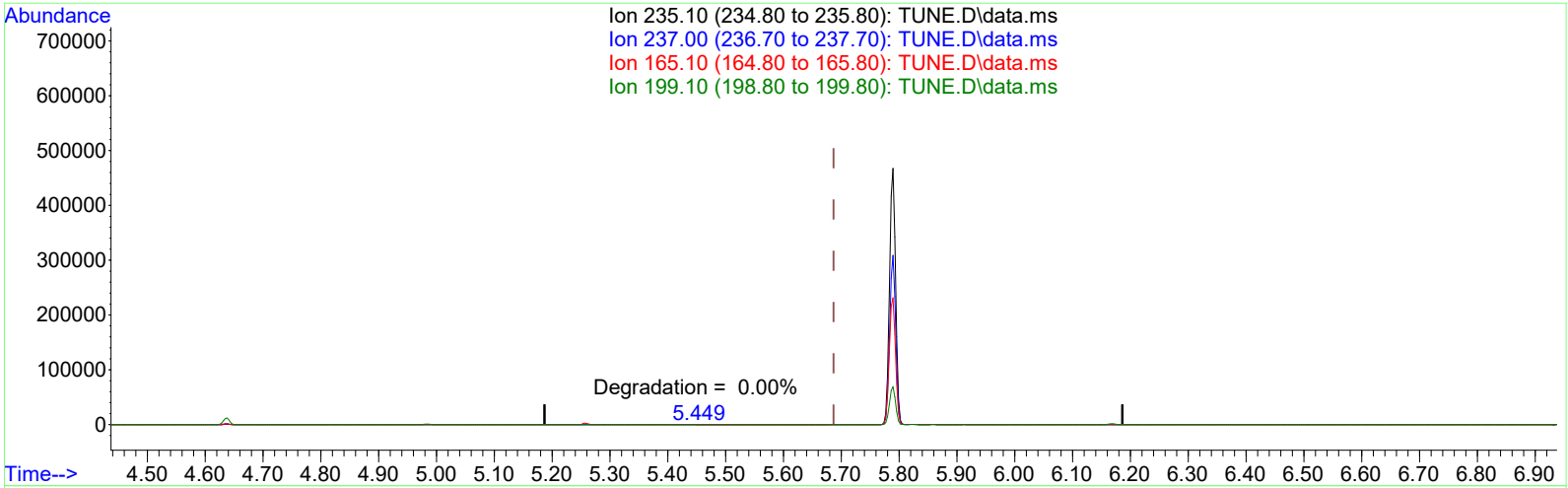
Spectrum Information: Average of 4.635 to 4.641 min.

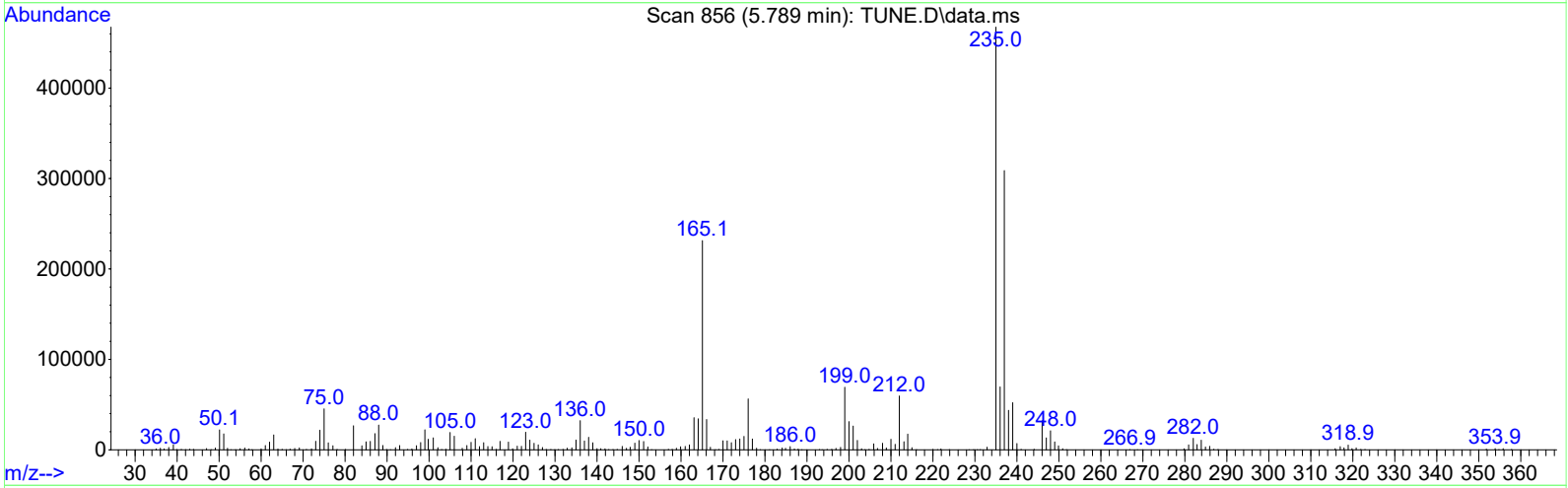
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.7	71109	PASS
68	69	0.00	2	1.4	926	PASS
69	69	100	100	100.0	65816	PASS
70	69	0.00	2	0.6	425	PASS
127	198	10	80	55.3	84061	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	152117	PASS
199	198	5	9	6.8	10353	PASS
275	198	10	60	26.8	40739	PASS
365	198	1	100	3.2	4906	PASS
441	442	0.01	24	17.5	20573	PASS
442	198	50	100	77.1	117261	PASS
443	442	15	24	18.9	22125	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : TUNE.D
Acq On : 21 Jun 2024 02:09 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1939716,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 21 14:45:51 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 07 09:31:44 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(6) ddt (T)

5.789min (+ 0.102) 56.01

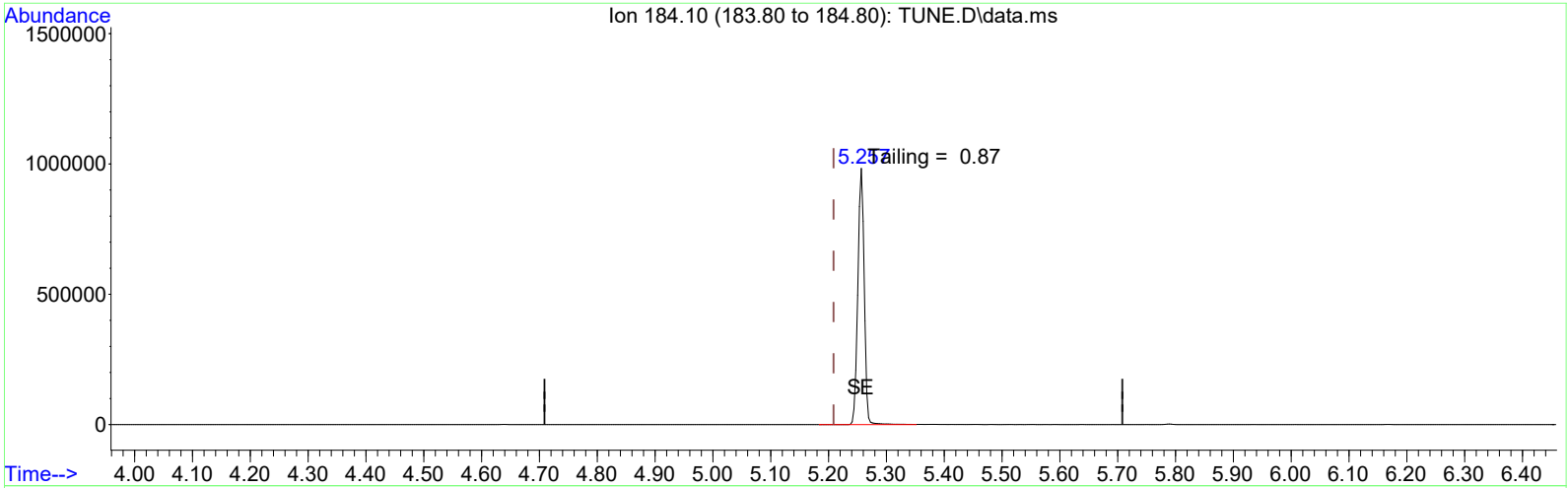
response 341393

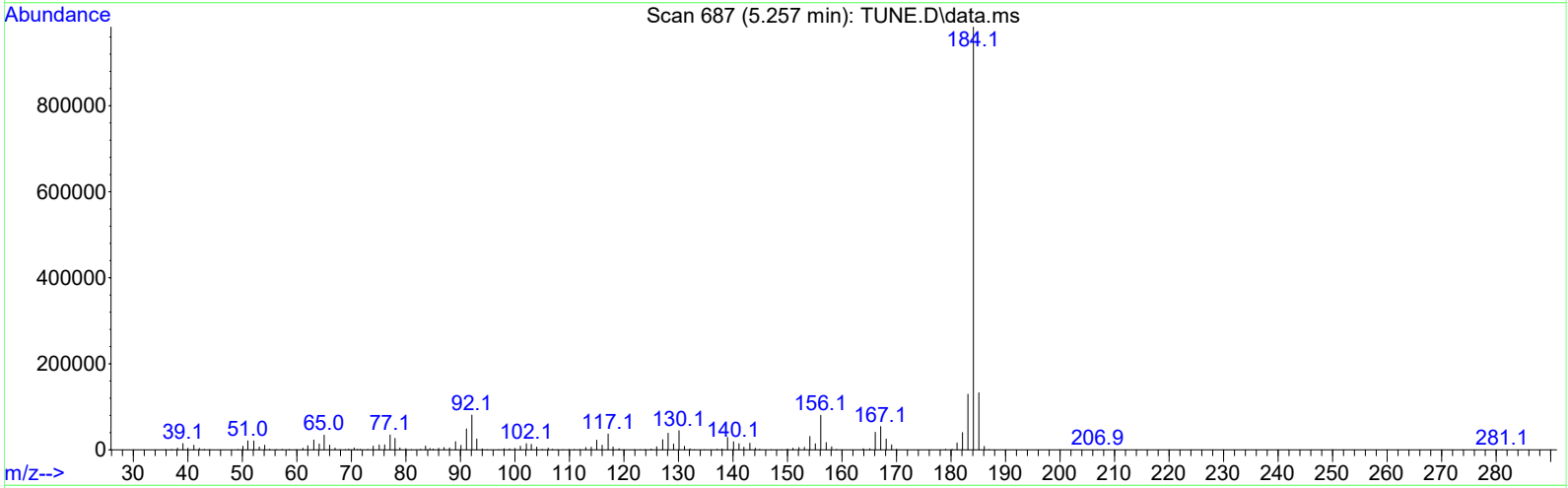
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	65.73
165.10	53.30	50.75
199.10	17.10	14.98

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : TUNE.D
Acq On : 21 Jun 2024 02:09 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1939716,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 21 14:45:51 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 07 09:31:44 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(3) benzidine (T)

5.257min (+ 0.048) 74.21

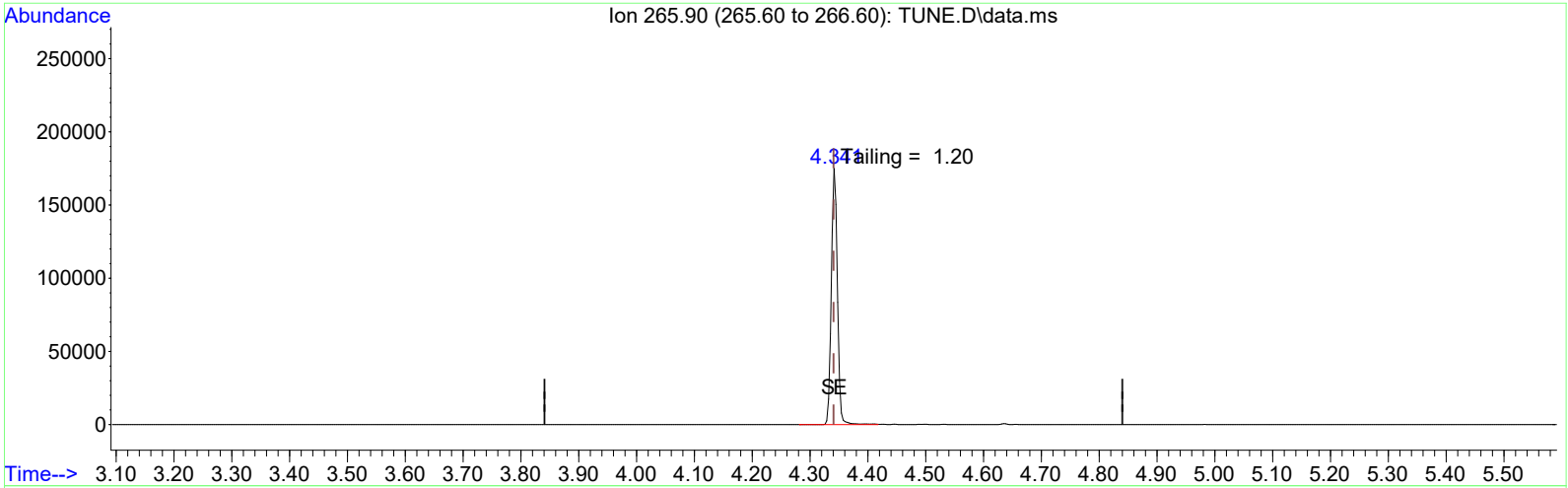
response 755442

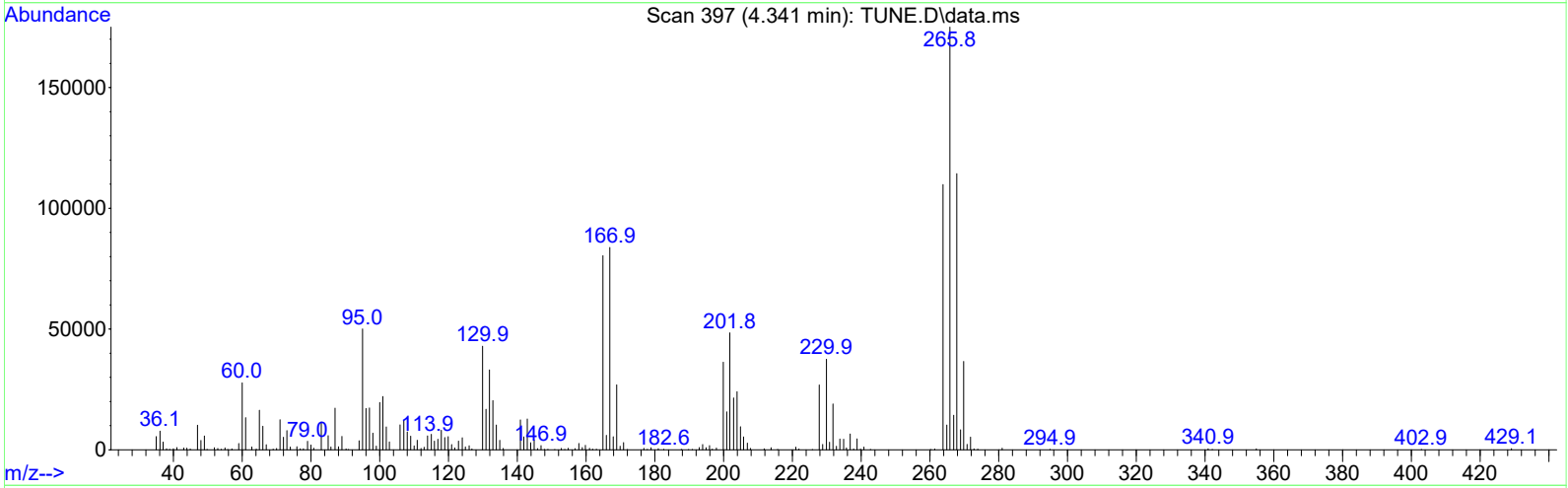
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : TUNE.D
Acq On : 21 Jun 2024 02:09 pm
Operator : sv119:dv
Sample : TUNE
Misc : WG1939716,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 21 14:45:51 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 07 09:31:44 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(1) pentachlorophenol (T)

4.341min (+ 0.000) 60.65

response 127382

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L10.D
Acq On : 21 Jun 2024 02:50 pm
Operator : sv119:dv
Sample : IL10,32,, #10462 5000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 12:37:42 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:34:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.882	152	182102	4000.000	ng/ml	-0.02
Standard Area 1 = 186265			Recovery = 97.77%			
8) Naphthalene-d8	2.533	136	694866	4000.000	ng/ml	-0.02
Standard Area 1 = 691724			Recovery = 100.45%			
17) Acenaphthene-d10	3.498	164	422066	4000.000	ng/ml	-0.01
Standard Area 1 = 424015			Recovery = 99.54%			
22) Phenanthrene-d10	4.324	188	983453	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery = 95.70%			
31) Chrysene-d12	5.941	240	892849M6	4000.000	ng/ml	0.10
Standard Area 1 = 965951			Recovery = 92.43%			
36) Perylene-d12	6.919	264	1084648M2	4000.000	ng/ml	0.14
Standard Area 1 = 979854			Recovery = 110.69%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.313	112	264903	4123.822	ng/ml	-0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery = 206.19%#			
3) Phenol-d6	1.713	99	364059	4493.489	ng/ml	-0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 224.67%#			
7) Nitrobenzene-d5	2.161	82	319320	4493.176	ng/ml	-0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery = 449.32%#			
13) 2-Fluorobiphenyl	3.131	172	655438	3648.606	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 364.86%#			
21) 2,4,6-Tribromophenol	3.938	330	134058	4549.052	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 227.45%#			
30) 4-Terphenyl-d14	5.279	244	972551	3577.262	ng/ml	0.04
Spiked Amount 2000.000	Range 30 - 130		Recovery = 178.86%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.758	93	275370	4230.502	ng/ml	99
5) n-nitrosodi-n-propylamine	2.088	70	241235	4834.229	ng/ml	99
6) Hexachloroethane	2.129	117	125966	4169.320	ng/ml	100
9) Naphthalene	2.544	128	796569	4139.539	ng/ml	99
10) Hexachlorobutadiene	2.618	225	171911	3992.228	ng/ml	100
11) 2-Methylnaphthalene	2.921	142	593407	4115.899	ng/ml	98
12) 1-Methylnaphthalene	2.975	142	546976	3924.914	ng/ml	98
14) 2-Chloronaphthalene	3.189	162	626560	4033.688	ng/ml	99
15) 2,6-Dinitrotoluene	3.396	165	185920M4	4444.978	ng/ml	
16) Acenaphthylene	3.417	152	991190	3994.067	ng/ml	100
18) Acenaphthene	3.515	153	623165	4229.846	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L10.D
Acq On : 21 Jun 2024 02:50 pm
Operator : sv119:dv
Sample : IL10,32,, #10462 5000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 12:37:42 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:34:52 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.621	165	256294	4542.669	ng/ml	98
20) Fluorene	3.803	166	750934	3867.188	ng/ml	96
23) 4,6-Dinitro-o-cresol	3.850	198	196403	4975.528	ng/ml	98
24) Hexachlorobenzene	4.116	284	254877	3774.456	ng/ml	98
25) Pentachlorophenol	4.229	266	212303	4334.686	ng/ml	100
26) Phenanthrene	4.339	178	1166478	4079.939	ng/ml	99
27) Anthracene	4.367	178	1224962	4146.825	ng/ml	98
28) Fluoranthene	5.032	202	1418253M3	3612.649	ng/ml	
29) Pyrene	5.167	202	1469416	3612.041	ng/ml	99
32) Benzo[a]anthracene	5.932	228	1644077M3	4897.958	ng/ml	
33) 3,3'-Dichlorobenzene	5.934	252	645828M4	4735.874	ng/ml	
34) Chrysene	5.959	228	1544132M3	4646.782	ng/ml	
35) Bis(2-ethylhexyl)phtha...	5.997	149	1207751M6	4951.264	ng/ml	
37) Benzo[b]fluoranthene	6.636	252	1692321M3	3767.103	ng/ml	
38) Benzo[k]fluoranthene	6.657	252	1550840M4	3736.742	ng/ml	
39) Benzo[a]pyrene	6.871	252	1613200M2	4054.525	ng/ml	
40) Indeno[1,2,3-cd]pyrene	7.865	276	1833451M2	4558.453	ng/ml	
41) Dibenzo[a,h]anthracene	7.899	278	1566122M6	4371.174	ng/ml	
42) Benzo[g,h,i]perylene	8.141	276	1717170M2	4340.469	ng/ml	

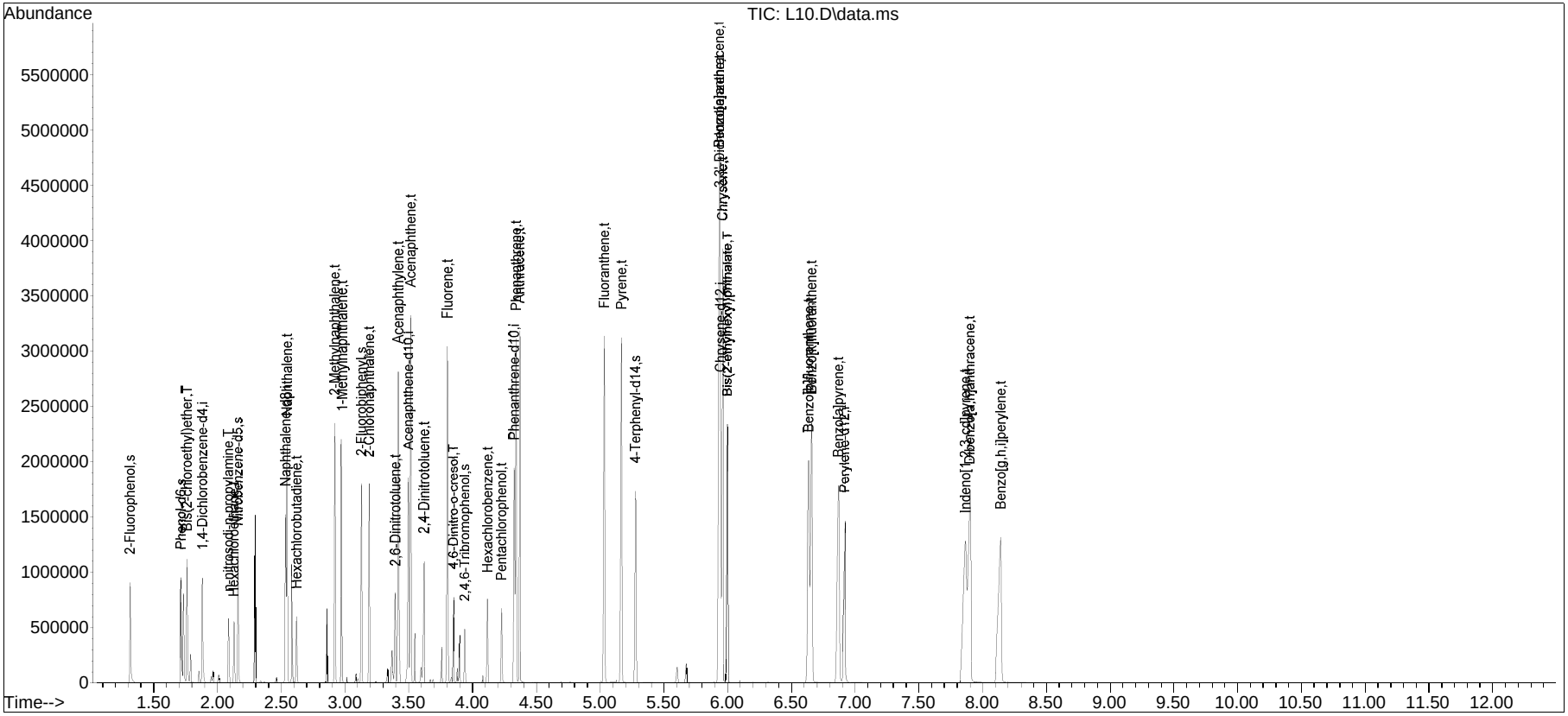
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L10.D
Acq On : 21 Jun 2024 02:50 pm
Operator : sv119:dv
Sample : IL10,32,, #10462 5000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 12:37:42 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:34:52 2024
Response via : Initial Calibration

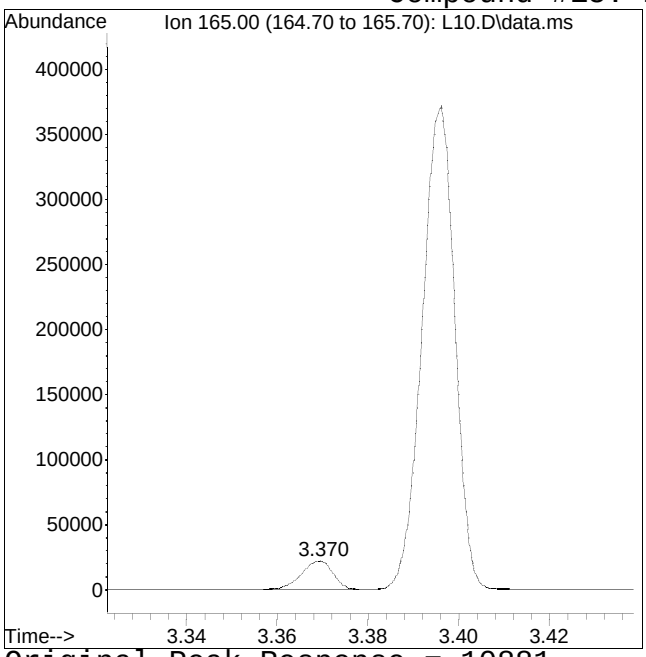
Sub List : Default - All compounds listedical\L8.D•



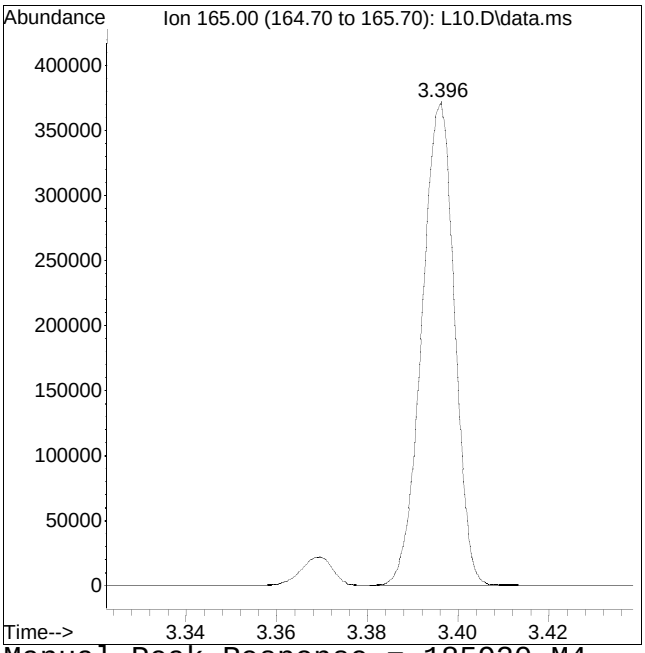
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L10.D
Date Inj'd : 6/21/2024 2:50 pm
Sample : IL10,32,, #10462 5000 ng/m
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:34 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 10881



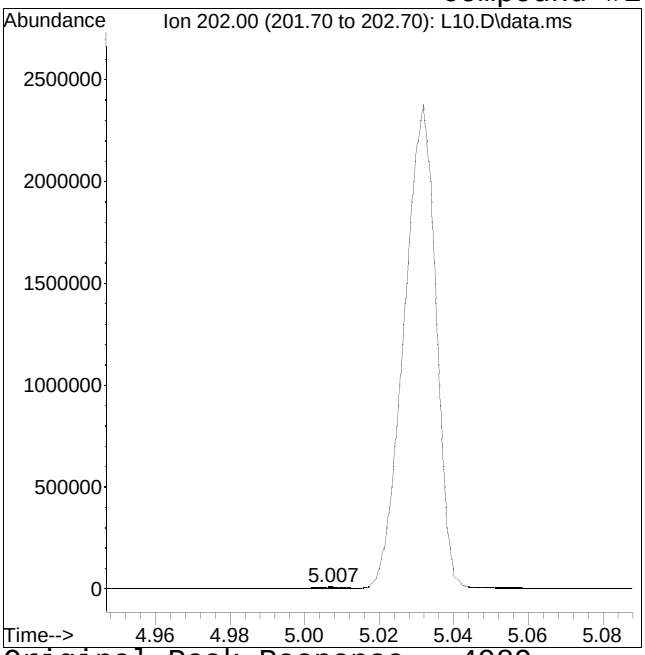
Manual Peak Response = 185920 M4

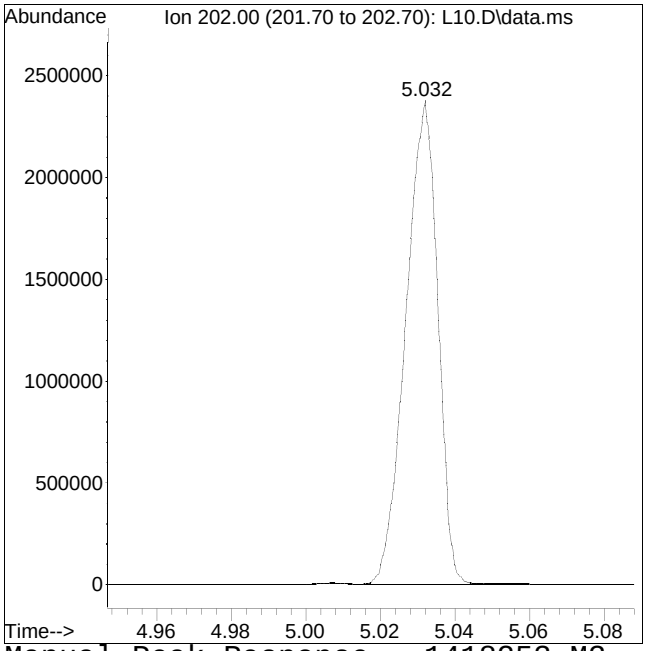
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L10.D
Date Inj'd : 6/21/2024 2:50 pm
Sample : IL10,32,, #10462 5000 ng/m
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:34 pm

Compound #28: Fluoranthene



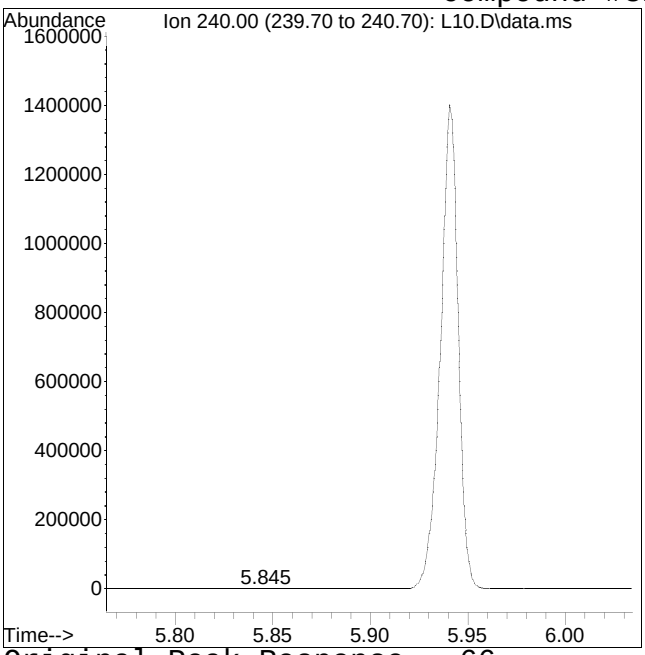


Original Peak Response = 4989 Manual Peak Response = 1418253 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

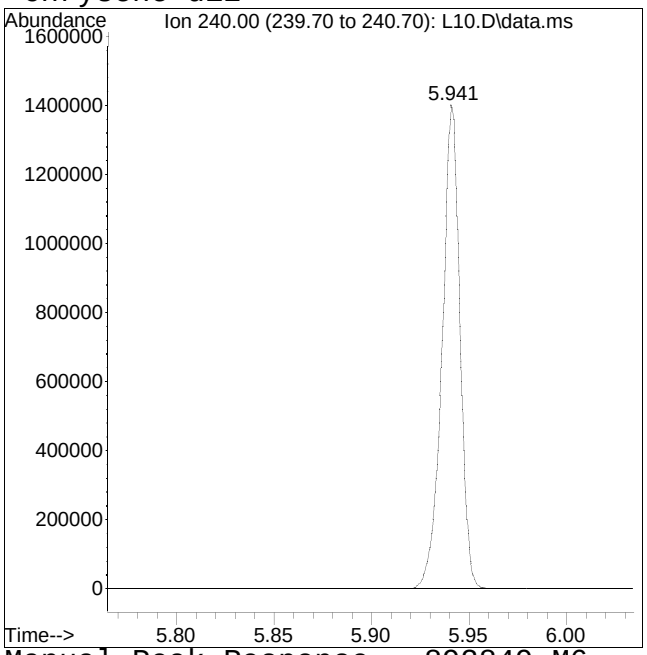
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L10.D Operator : sv119:dv
Date Inj'd : 6/21/2024 2:50 pm Instrument : SV119
Sample : IL10,32,, #10462 5000 ng/mQuant Date : 6/26/2024 12:34 pm

Compound #31: Chrysene-d12



Original Peak Response = 66



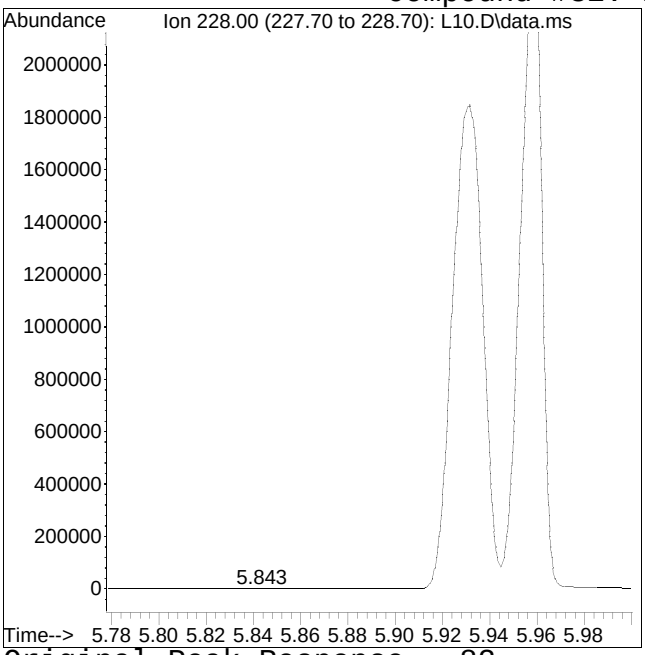
Manual Peak Response = 892849 M6

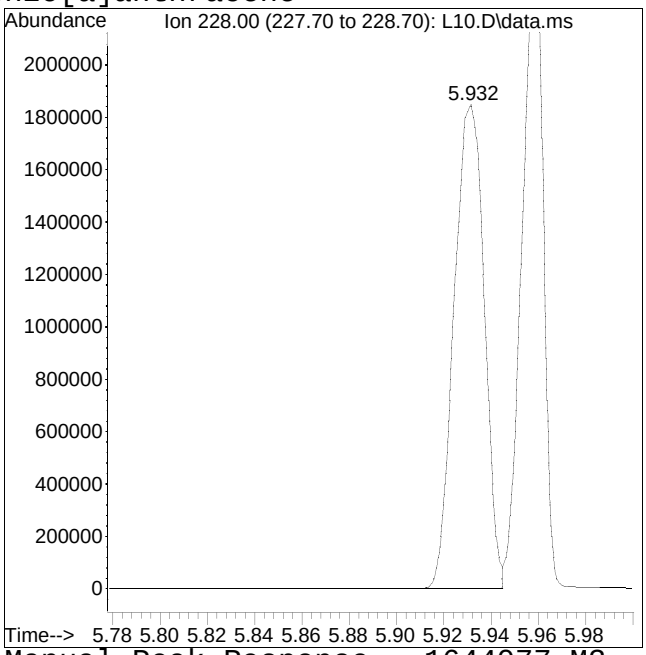
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L10.D Operator : sv119:dv
Date Inj'd : 6/21/2024 2:50 pm Instrument : SV119
Sample : IL10,32,, #10462 5000 ng/mQuant Date : 6/26/2024 12:34 pm

Compound #32: Benzo[a]anthracene



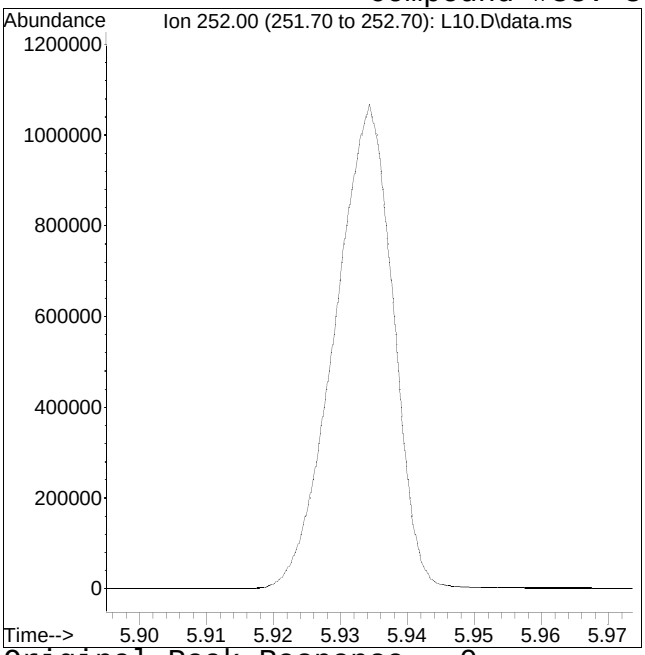


Original Peak Response = 82 Manual Peak Response = 1644077 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

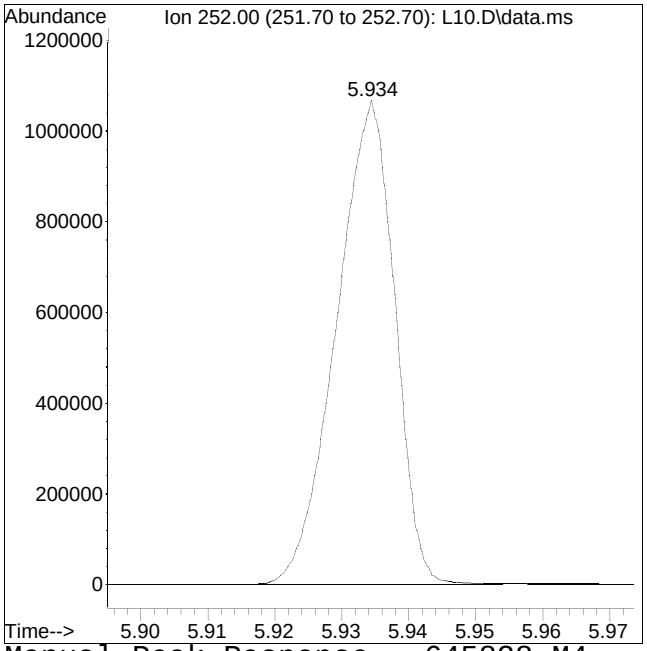
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L10.D
Date Inj'd : 6/21/2024 2:50 pm
Sample : IL10,32,, #10462 5000 ng/m
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:34 pm

Compound #33: 3,3'-Dichlorobenzene



Original Peak Response = 0



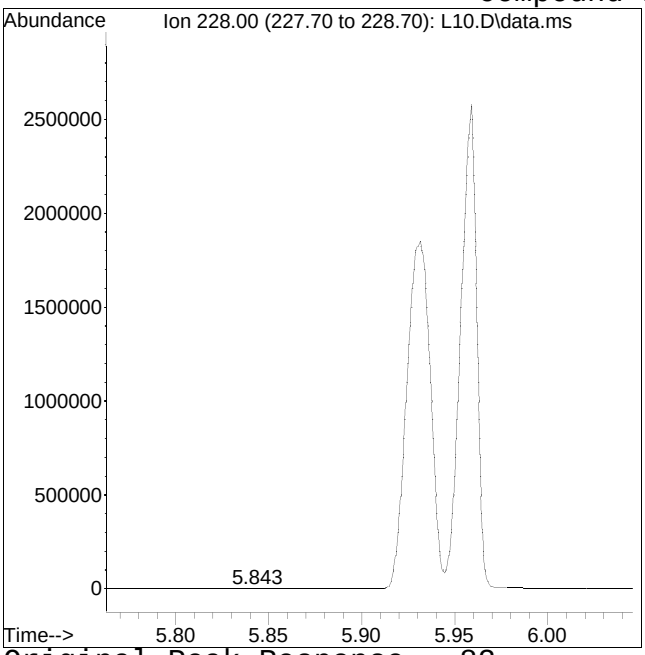
Manual Peak Response = 645828 M4

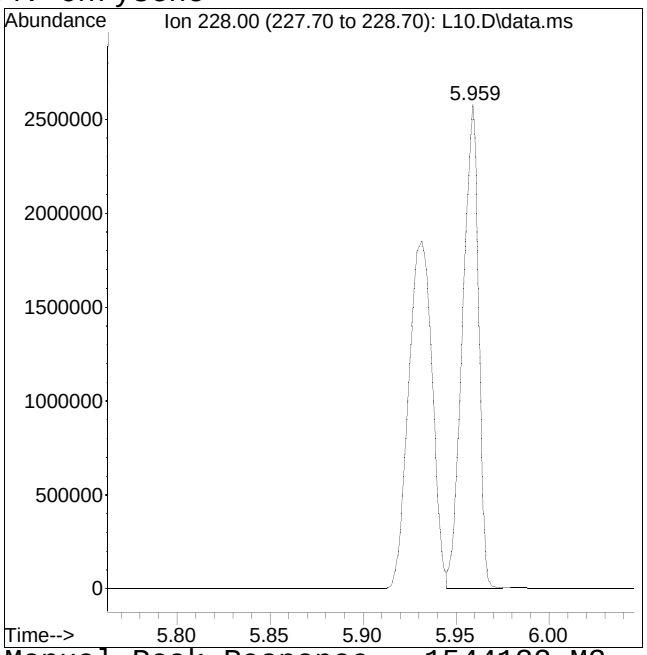
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L10.D Operator : sv119:dv
Date Inj'd : 6/21/2024 2:50 pm Instrument : SV119
Sample : IL10,32,, #10462 5000 ng/mQuant Date : 6/26/2024 12:34 pm

Compound #34: Chrysene



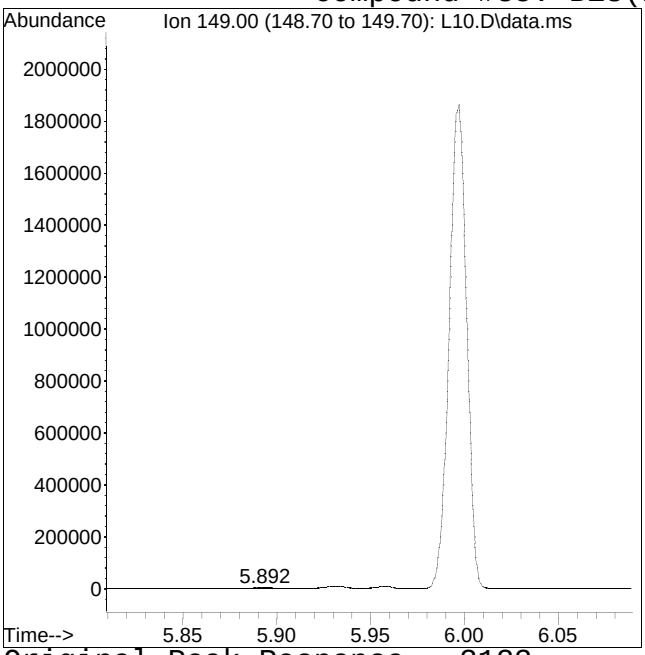


Original Peak Response = 82 Manual Peak Response = 1544132 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

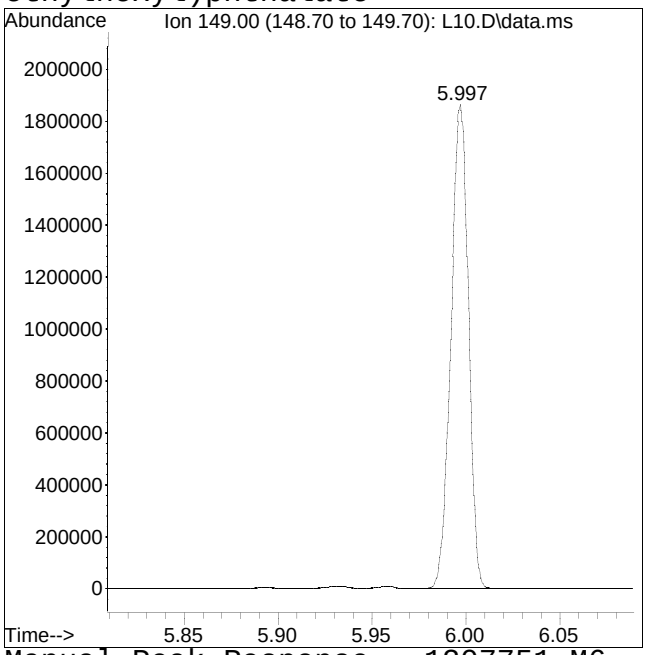
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L10.D
Date Inj'd : 6/21/2024 2:50 pm
Sample : IL10,32,, #10462 5000 ng/m
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:34 pm

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 3123



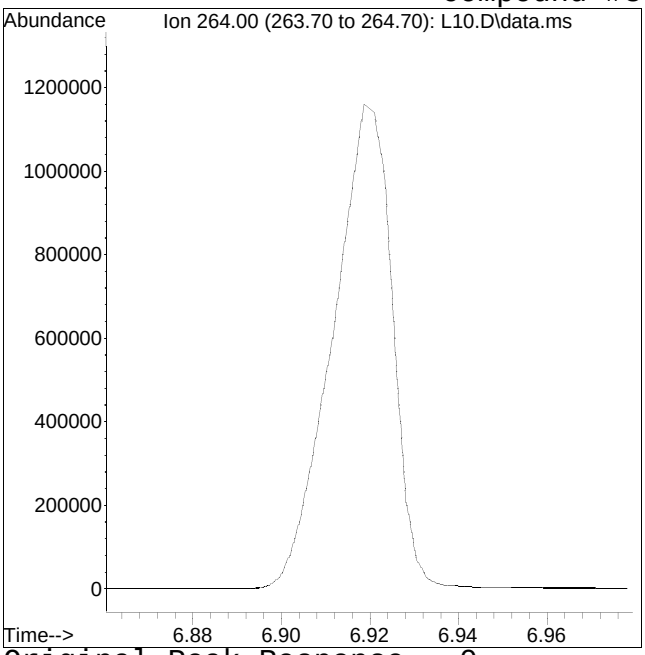
Manual Peak Response = 1207751 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

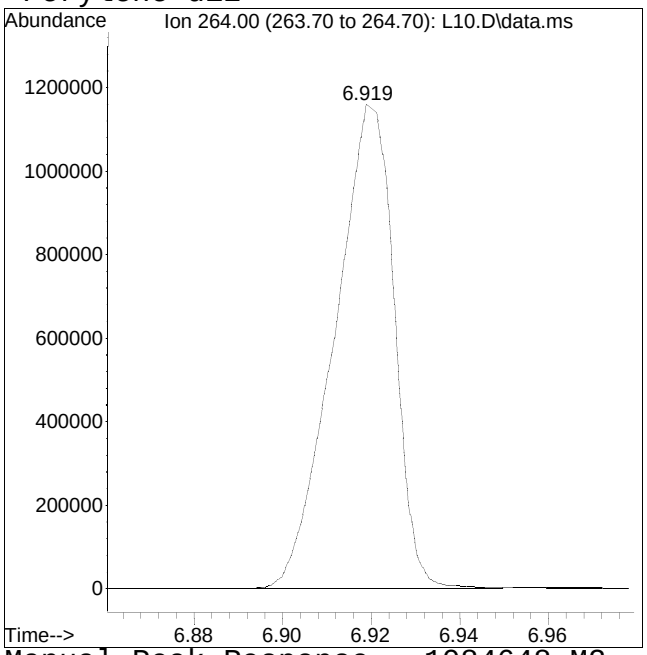
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L10.D Operator : sv119:dv
Date Inj'd : 6/21/2024 2:50 pm Instrument : SV119
Sample : IL10,32,, #10462 5000 ng/mQuant Date : 6/26/2024 12:34 pm

Compound #36: Perylene-d12



Original Peak Response = 0



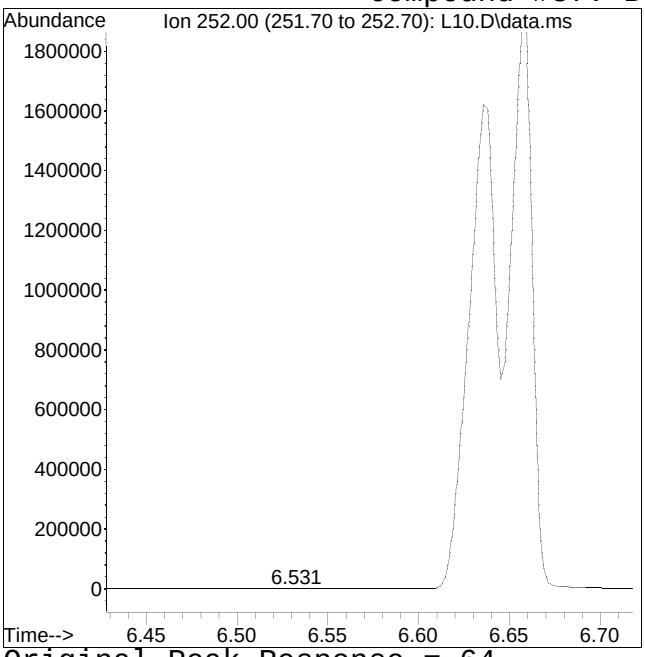
Manual Peak Response = 1084648 M2

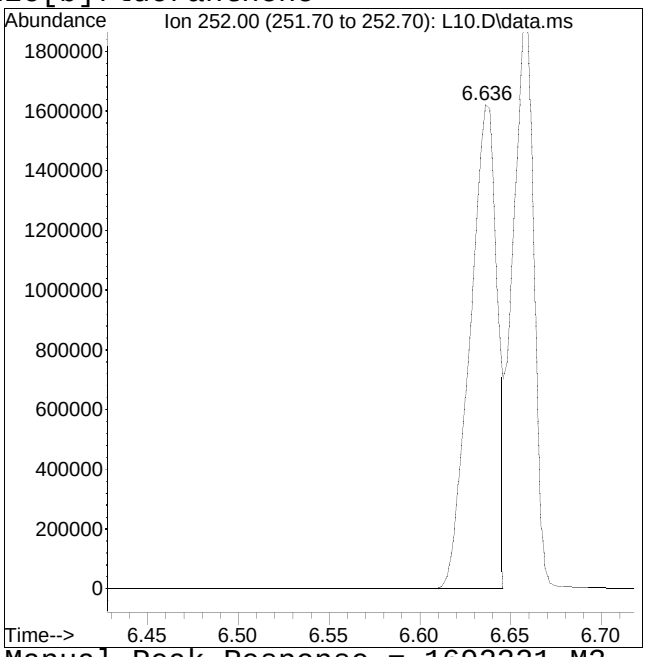
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L10.D Operator : sv119:dv
Date Inj'd : 6/21/2024 2:50 pm Instrument : SV119
Sample : IL10,32,, #10462 5000 ng/mQuant Date : 6/26/2024 12:34 pm

Compound #37: Benzo[b]fluoranthene



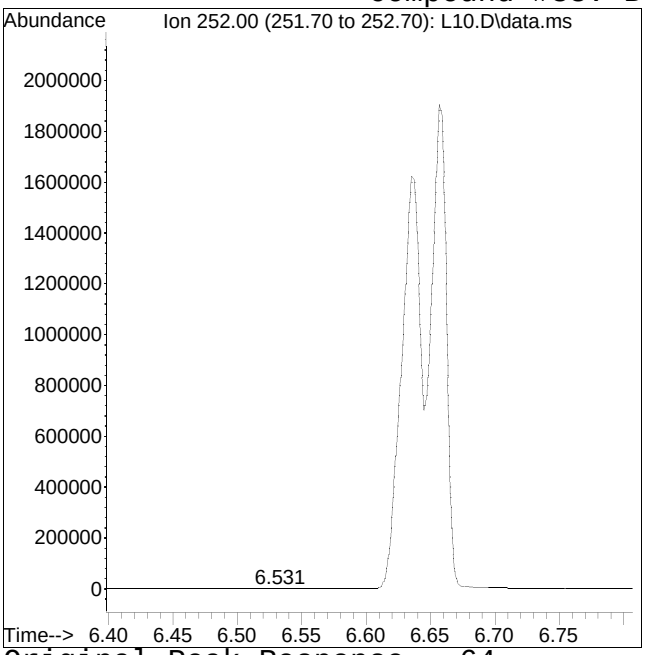


Original Peak Response = 64 Manual Peak Response = 1692321 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

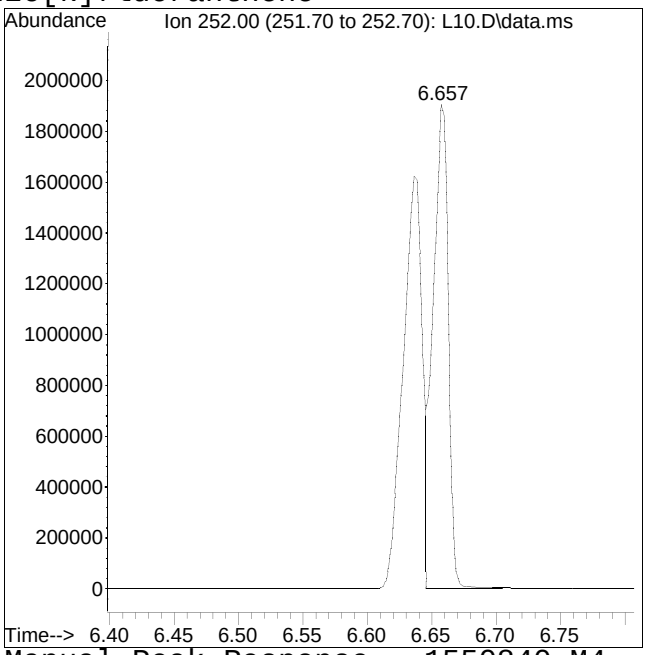
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L10.D Operator : sv119:dv
Date Inj'd : 6/21/2024 2:50 pm Instrument : SV119
Sample : IL10,32,, #10462 5000 ng/mQuant Date : 6/26/2024 12:34 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 64



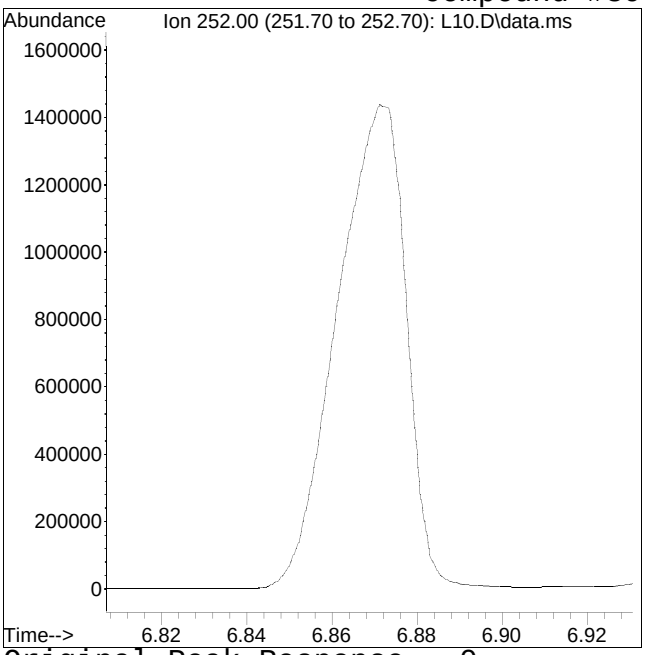
Manual Peak Response = 1550840 M4

M4 = Poor automated baseline construction.

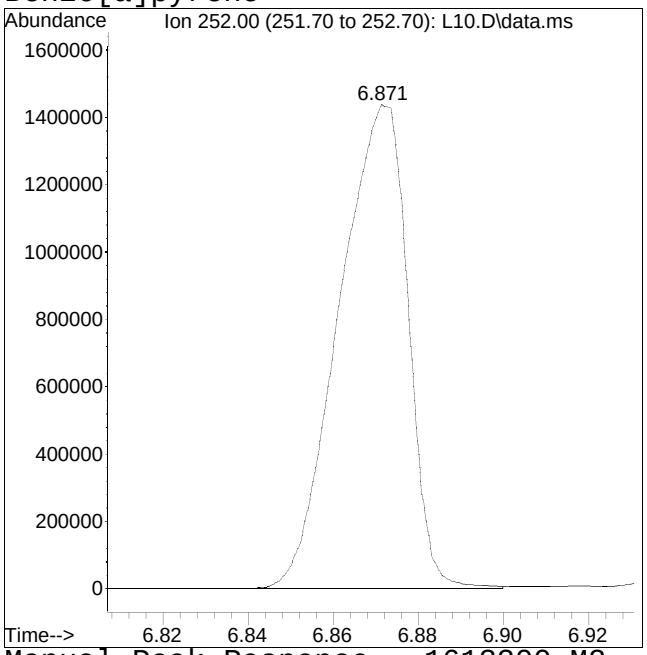
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L10.D Operator : sv119:dv
Date Inj'd : 6/21/2024 2:50 pm Instrument : SV119
Sample : IL10,32,, #10462 5000 ng/mQuant Date : 6/26/2024 12:34 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 0

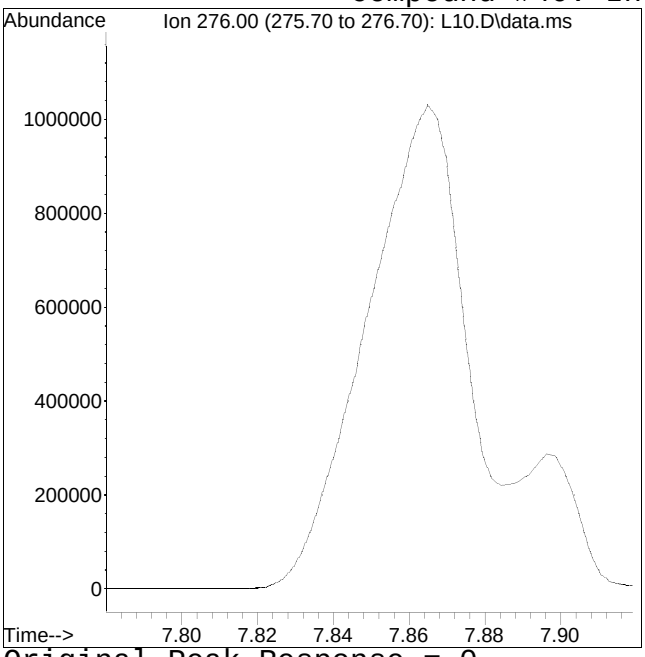


Manual Peak Response = 1613200 M2

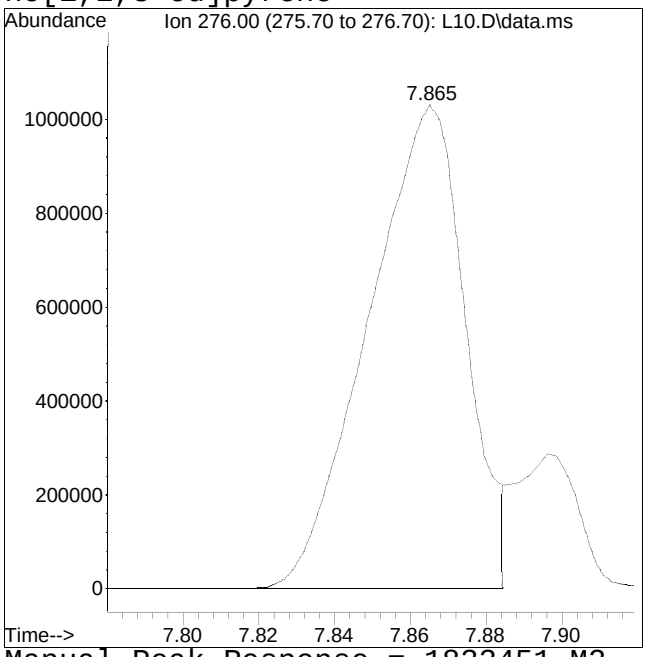
M2 = Peak not found by automatic integration algorithm.

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L10.D Operator : sv119:dv
Date Inj'd : 6/21/2024 2:50 pm Instrument : SV119
Sample : IL10,32,, #10462 5000 ng/mQuant Date : 6/26/2024 12:34 pm

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 0



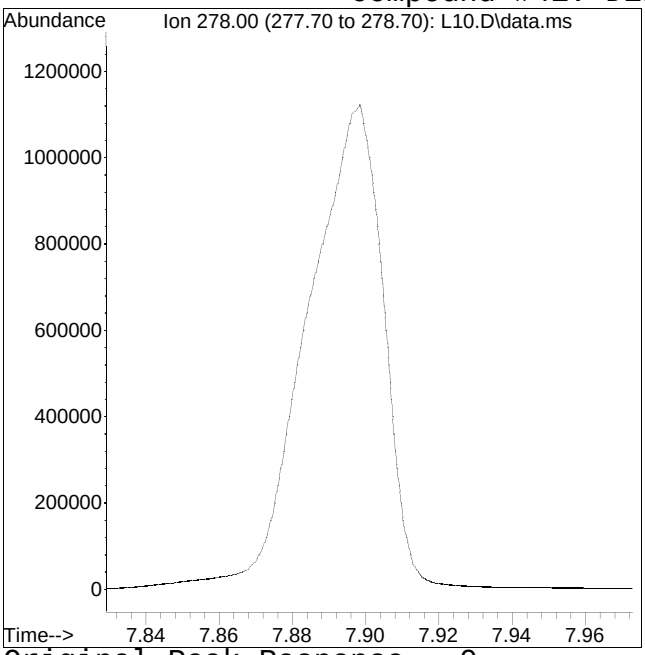
Manual Peak Response = 1833451 M2

M2 = Peak not found by automatic integration algorithm.

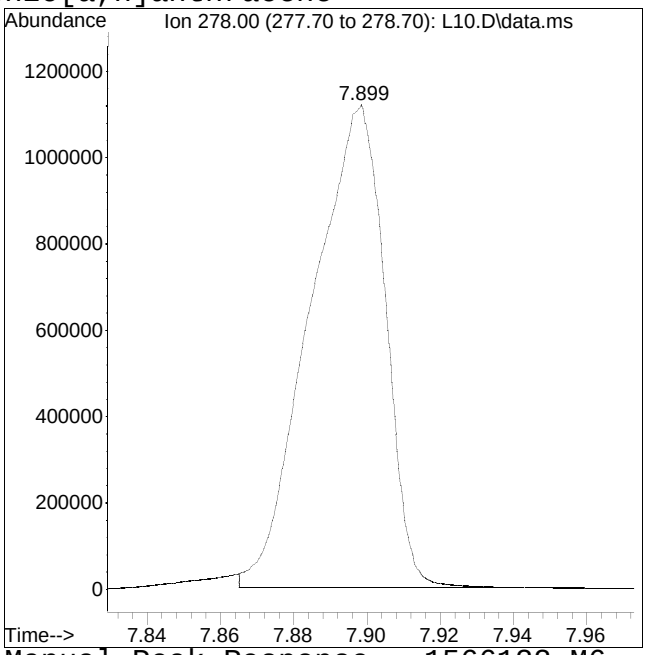
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L10.D Operator : sv119:dv
Date Inj'd : 6/21/2024 2:50 pm Instrument : SV119
Sample : IL10,32,, #10462 5000 ng/mQuant Date : 6/26/2024 12:34 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 0



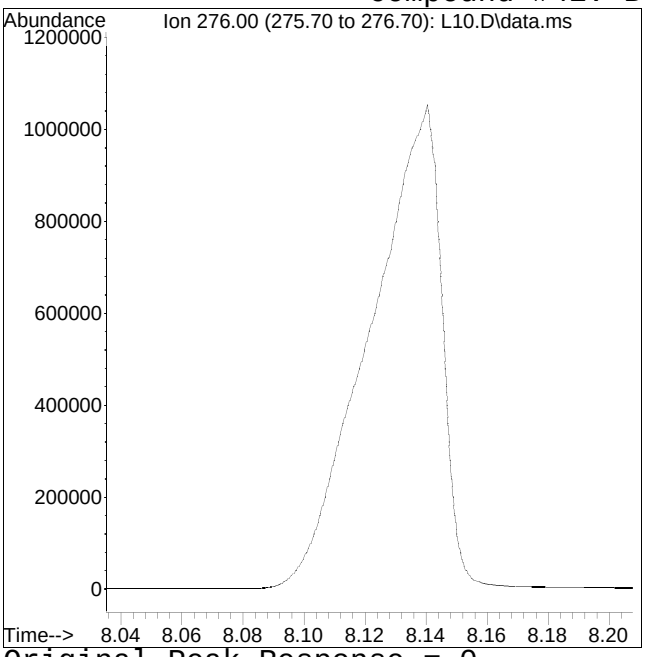
Manual Peak Response = 1566122 M6

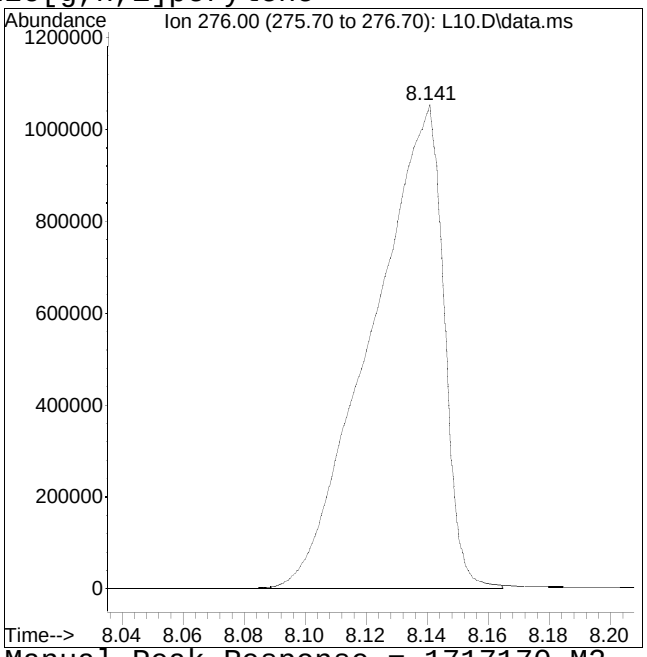
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L10.D
Date Inj'd : 6/21/2024 2:50 pm
Sample : IL10,32,, #10462 5000 ng/m
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:34 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 0
Manual Peak Response = 1717170 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L9.D
Acq On : 21 Jun 2024 03:06 pm
Operator : sv119:dv
Sample : IL9,32,, #10755 2500 ng/ml
Misc : WG1939716,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 12:34:53 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.899	152	189146	4000.000	ng/ml	0.00
Standard Area 1 = 186265			Recovery = 101.55%			
8) Naphthalene-d8	2.546	136	722855	4000.000	ng/ml	0.00
Standard Area 1 = 691724			Recovery = 104.50%			
17) Acenaphthene-d10	3.506	164	456454	4000.000	ng/ml	0.00
Standard Area 1 = 424015			Recovery = 107.65%			
22) Phenanthrene-d10	4.330	188	1086397	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery = 105.72%			
31) Chrysene-d12	5.856	240	939463	4000.000	ng/ml	0.01
Standard Area 1 = 965951			Recovery = 97.26%			
36) Perylene-d12	6.800	264	986561	4000.000	ng/ml	0.02
Standard Area 1 = 979854			Recovery = 100.68%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.333	112	151735	2274.136	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 113.71%#			
3) Phenol-d6	1.731	99	206390	2452.551	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 122.63%#			
7) Nitrobenzene-d5	2.175	82	182270	2469.221	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 246.92%#			
13) 2-Fluorobiphenyl	3.140	172	393094	2103.496	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 210.35%#			
21) 2,4,6-Tribromophenol	3.946	330	81809	2566.922	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 128.35%#			
30) 4-Terphenyl-d14	5.240	244	578682	1926.830	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 96.34%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.777	93	155970	2306.927	ng/ml	99
5) n-nitrosodi-n-propylamine	2.105	70	137292	2648.803	ng/ml	100
6) Hexachloroethane	2.146	117	71406	2275.433	ng/ml	100
9) Naphthalene	2.557	128	454475	2270.327	ng/ml	100
10) Hexachlorobutadiene	2.632	225	98409	2196.830	ng/ml	100
11) 2-Methylnaphthalene	2.933	142	350789	2338.880	ng/ml	99
12) 1-Methylnaphthalene	2.985	142	321099	2214.883	ng/ml	99
14) 2-Chloronaphthalene	3.198	162	368102	2278.021	ng/ml	100
15) 2,6-Dinitrotoluene	3.402	165	111600	2564.824	ng/ml	99
16) Acenaphthylene	3.425	152	592198	2293.904	ng/ml	100
18) Acenaphthene	3.523	153	367895	2309.025	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L9.D
Acq On : 21 Jun 2024 03:06 pm
Operator : sv119:dv
Sample : IL9,32,, #10755 2500 ng/ml
Misc : WG1939716,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 12:34:53 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:44 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.626	165	155366	2546.314	ng/ml	99
20) Fluorene	3.809	166	461558	2197.876	ng/ml	98
23) 4,6-Dinitro-o-cresol	3.853	198	113818	2552.849	ng/ml	98
24) Hexachlorobenzene	4.121	284	157766	2114.960	ng/ml	99
25) Pentachlorophenol	4.235	266	124179	2486.234	ng/ml	99
26) Phenanthrene	4.343	178	703865	2228.597	ng/ml	99
27) Anthracene	4.370	178	745371	2284.182	ng/ml	99
28) Fluoranthene	5.009	202	869238	2004.360	ng/ml	99
29) Pyrene	5.134	202	881286	1961.055	ng/ml	100
32) Benzo[a]anthracene	5.845	228	883116	2496.432	ng/ml	100
33) 3,3'-Dichlorobenzene	5.844	252	360790	2514.410	ng/ml	99
34) Chrysene	5.870	228	841688	2407.228	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	5.900	149	654479	2556.429	ng/ml	99
37) Benzo[b]fluoranthene	6.515	252	866471	2120.526	ng/ml	99
38) Benzo[k]fluoranthene	6.534	252	782677	2073.355	ng/ml	99
39) Benzo[a]pyrene	6.750	252	795930	2199.336	ng/ml	98
40) Indeno[1,2,3-cd]pyrene	7.746	276	846780	2314.641	ng/ml	98
41) Dibenzo[a,h]anthracene	7.777	278	737232M6	2262.255	ng/ml	
42) Benzo[g,h,i]perylene	8.014	276	802567	2230.332	ng/ml	100

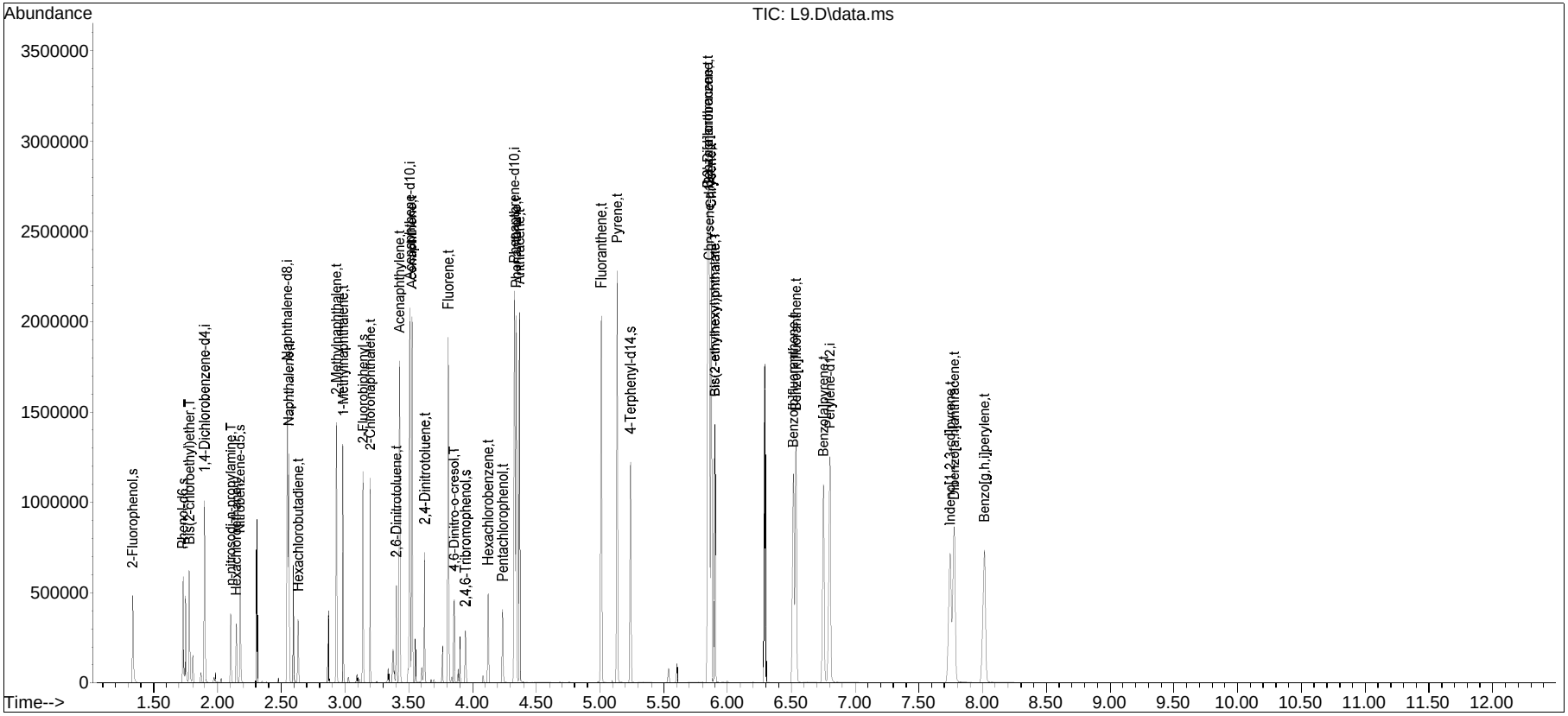
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L9.D
Acq On : 21 Jun 2024 03:06 pm
Operator : sv119:dv
Sample : IL9,32,, #10755 2500 ng/ml
Misc : WG1939716,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 12:34:53 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:44 2024
Response via : Initial Calibration

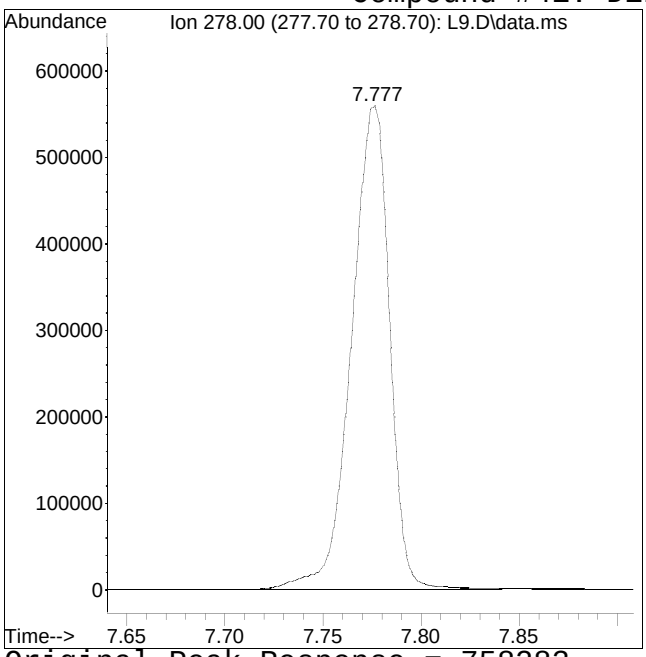
Sub List : Default - All compounds listedical\L8.D•



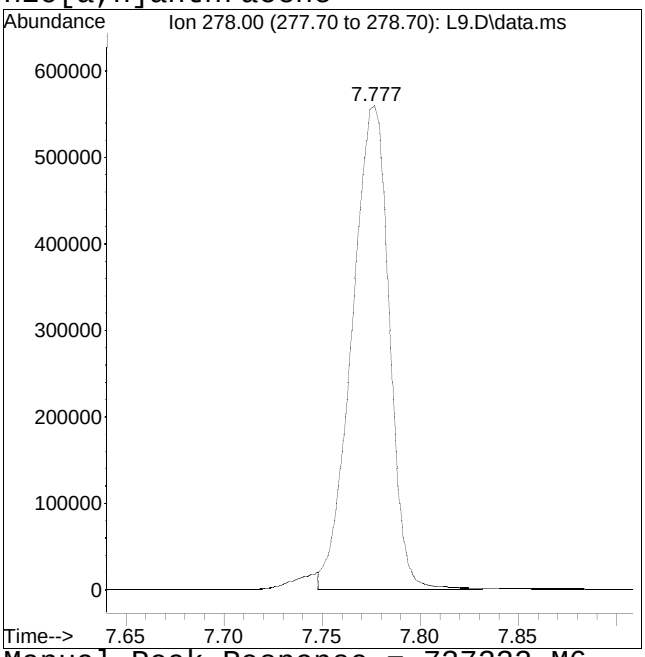
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L9.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:06 pm Instrument : SV119
Sample : IL9,32,, #10755 2500 ng/mlQuant Date : 6/26/2024 12:35 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 758283



Manual Peak Response = 737232 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L8.D
Acq On : 21 Jun 2024 03:23 pm
Operator : sv119:dv
Sample : IL8,32,, #10463 1000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 12:34:46 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.904	152	186265	4000.000	ng/ml	0.00
Standard Area 1 = 186265			Recovery = 100.00%			
8) Naphthalene-d8	2.549	136	691724	4000.000	ng/ml	0.00
Standard Area 1 = 691724			Recovery = 100.00%			
17) Acenaphthene-d10	3.509	164	424015	4000.000	ng/ml	0.00
Standard Area 1 = 424015			Recovery = 100.00%			
22) Phenanthrene-d10	4.331	188	1027588	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery = 100.00%			
31) Chrysene-d12	5.841	240	965951	4000.000	ng/ml	0.00
Standard Area 1 = 965951			Recovery = 100.00%			
36) Perylene-d12	6.781	264	979854	4000.000	ng/ml	0.00
Standard Area 1 = 979854			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.339	112	65627M2	998.801	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.94%			
3) Phenol-d6	1.736	99	86170	1039.804	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.99%			
7) Nitrobenzene-d5	2.181	82	75891M3	1044.001	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 104.40%			
13) 2-Fluorobiphenyl	3.143	172	169529M3	947.998	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 94.80%			
21) 2,4,6-Tribromophenol	3.947	330	32775	1107.057	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 55.35%			
30) 4-Terphenyl-d14	5.235	244	263650	928.113	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 46.41%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.782	93	66261	995.215	ng/ml	100
5) n-nitrosodi-n-propylamine	2.108	70	53783	1053.696	ng/ml	100
6) Hexachloroethane	2.152	117	30066	972.906	ng/ml	100
9) Naphthalene	2.560	128	187504	978.830	ng/ml	100
10) Hexachlorobutadiene	2.637	225	41300	963.452	ng/ml	100
11) 2-Methylnaphthalene	2.936	142	146502M3	1020.760	ng/ml	
12) 1-Methylnaphthalene	2.988	142	133700M3	963.744	ng/ml	
14) 2-Chloronaphthalene	3.200	162	152169M3	984.088	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L8.D
Acq On : 21 Jun 2024 03:23 pm
Operator : sv119:dv
Sample : IL8,32,, #10463 1000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 12:34:46 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:37 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2,6-Dinitrotoluene	3.403	165	44628M4	1071.813	ng/ml	
16) Acenaphthylene	3.426	152	244662M3	990.360	ng/ml	
18) Acenaphthene	3.526	153	147231	994.764	ng/ml	100
19) 2,4-Dinitrotoluene	3.627	165	63132M3	1113.836	ng/ml	
20) Fluorene	3.812	166	191121M3	979.718	ng/ml	
23) 4,6-Dinitro-o-cresol	3.854	198	41899	991.493	ng/ml	100
24) Hexachlorobenzene	4.122	284	67031	950.023	ng/ml	100
25) Pentachlorophenol	4.235	266	45740	1037.550	ng/ml	100
26) Phenanthrene	4.343	178	287629	962.818	ng/ml	100
27) Anthracene	4.370	178	309847	1003.864	ng/ml	100
28) Fluoranthene	5.005	202	383985M6	936.097	ng/ml	
29) Pyrene	5.132	202	392628	923.685	ng/ml	100
32) Benzo[a]anthracene	5.833	228	390189	1068.137	ng/ml	100
33) 3,3'-Dichlorobenzene	5.831	252	159447	1080.743	ng/ml	100
34) Chrysene	5.856	228	366215	1018.654	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	5.887	149	264818M3	1014.123	ng/ml	
37) Benzo[b]fluoranthene	6.493	252	396025	975.831	ng/ml	100
38) Benzo[k]fluoranthene	6.512	252	343688M3	916.680	ng/ml	
39) Benzo[a]pyrene	6.729	252	352937	981.921	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	7.721	276	363376M2	1000.073	ng/ml	
41) Dibenzo[a,h]anthracene	7.750	278	315703M6	975.391	ng/ml	
42) Benzo[g,h,i]perylene	7.990	276	342280M2	957.706	ng/ml	

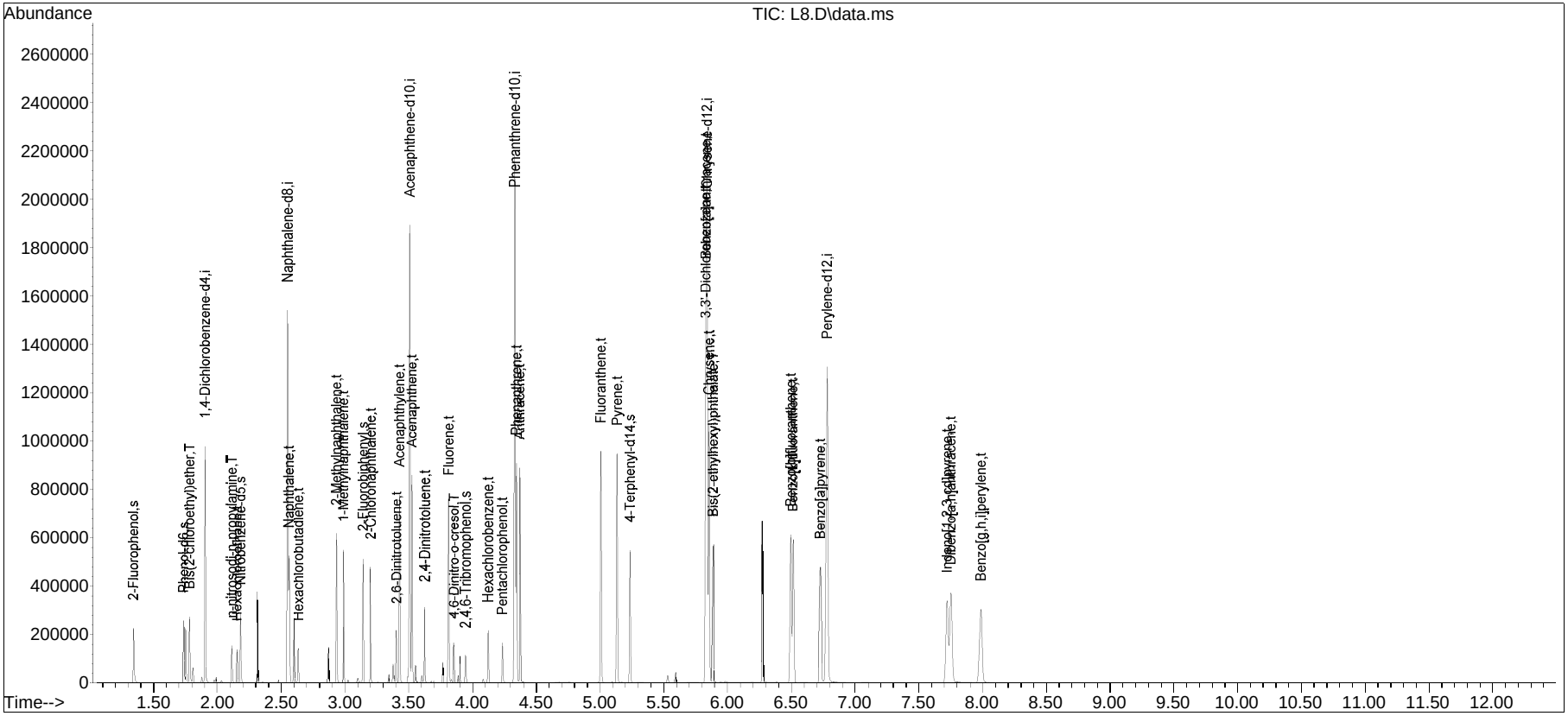
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L8.D
Acq On : 21 Jun 2024 03:23 pm
Operator : sv119:dv
Sample : IL8,32,, #10463 1000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 12:34:46 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:37 2024
Response via : Initial Calibration

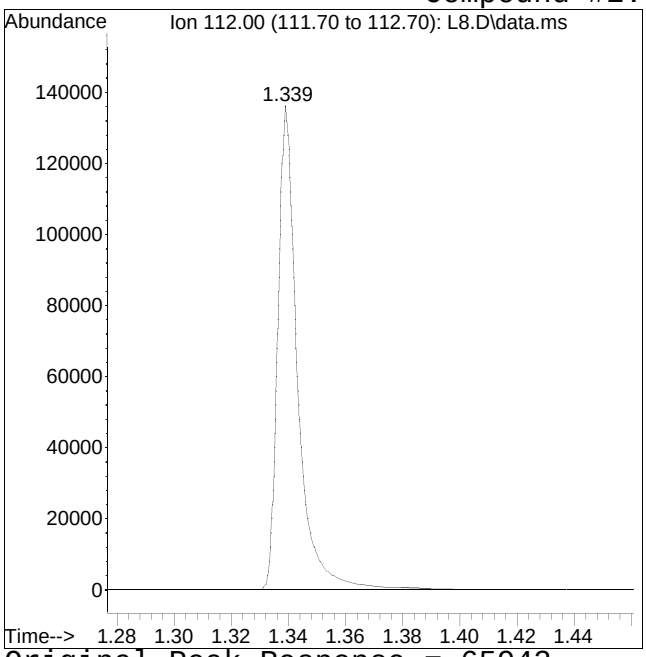
Sub List : Default - All compounds listedical\L8.D•



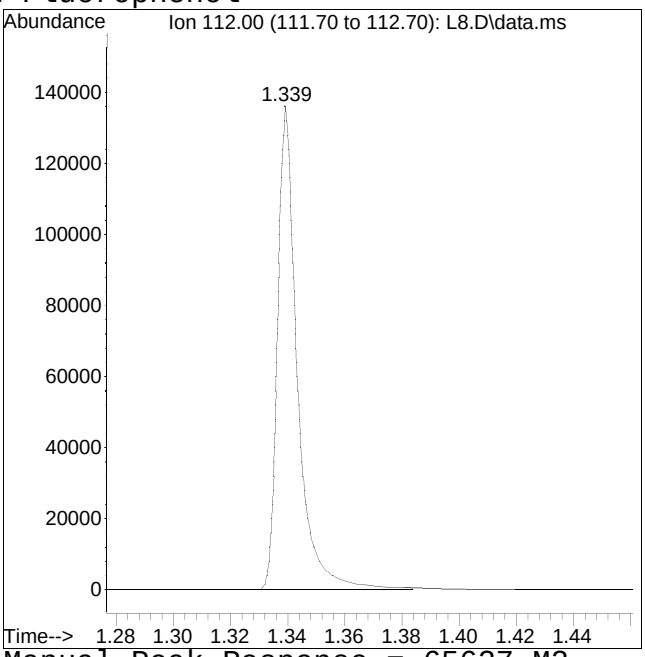
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L8.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:23 pm Instrument : SV119
Sample : IL8,32,, #10463 1000 ng/mlQuant Date : 6/26/2024 12:35 pm

Compound #2: 2-Fluorophenol



Original Peak Response = 65942



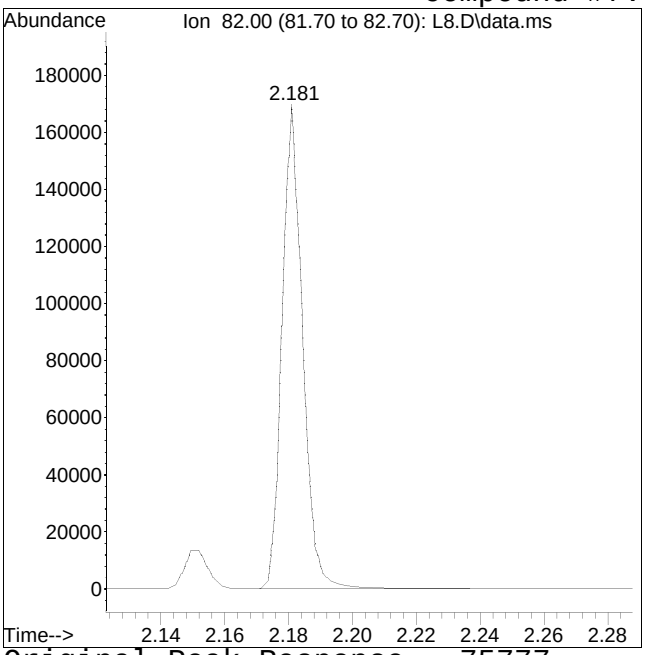
Manual Peak Response = 65627 M2

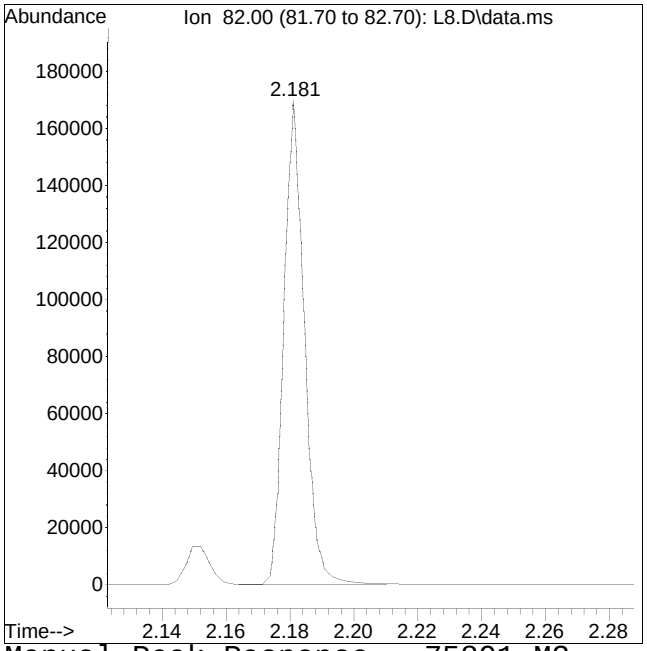
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L8.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:23 pm Instrument : SV119
Sample : IL8,32,, #10463 1000 ng/mlQuant Date : 6/26/2024 12:35 pm

Compound #7: Nitrobenzene-d5



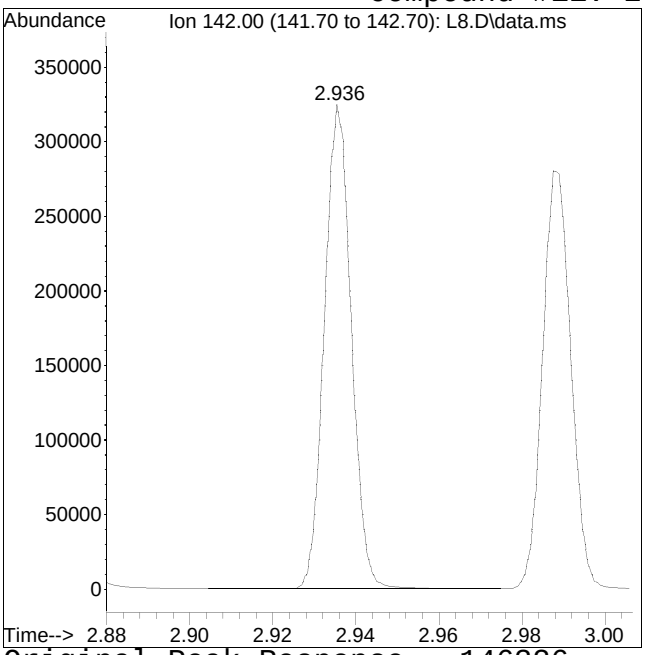


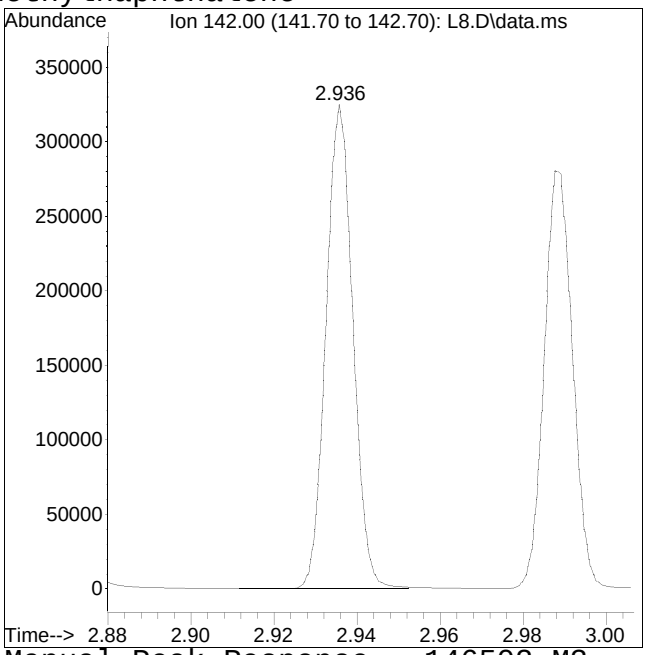
Original Peak Response = 75777 Manual Peak Response = 75891 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L8.D
Date Inj'd : 6/21/2024 3:23 pm
Sample : IL8,32,, #10463 1000 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #11: 2-Methylnaphthalene





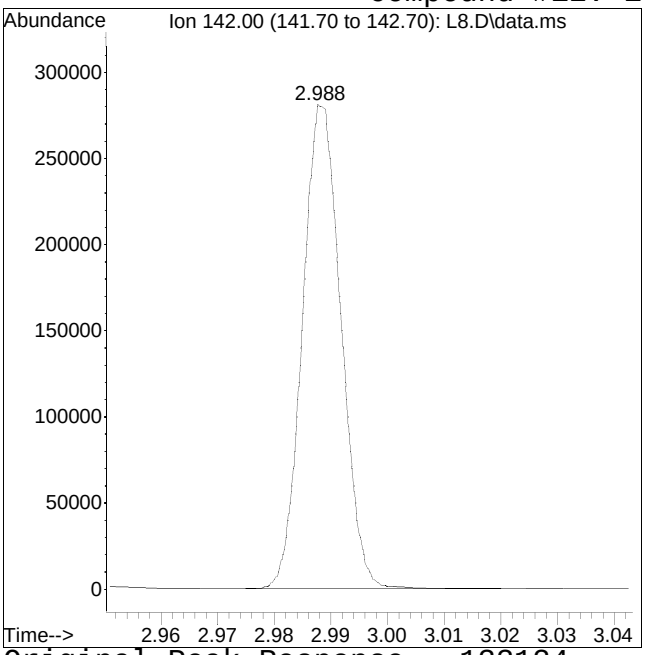
Original Peak Response = 146326 Manual Peak Response = 146502 M3

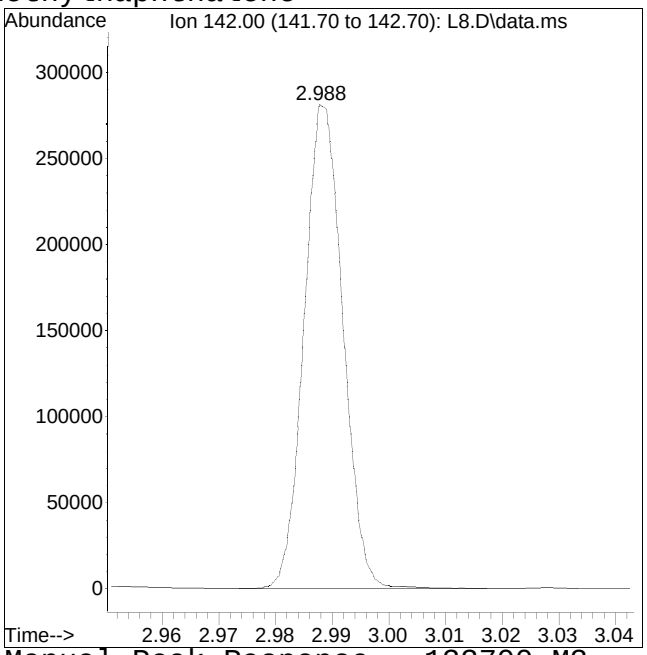
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L8.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:23 pm Instrument : SV119
Sample : IL8,32,, #10463 1000 ng/mlQuant Date : 6/26/2024 12:35 pm

Compound #12: 1-Methylnaphthalene



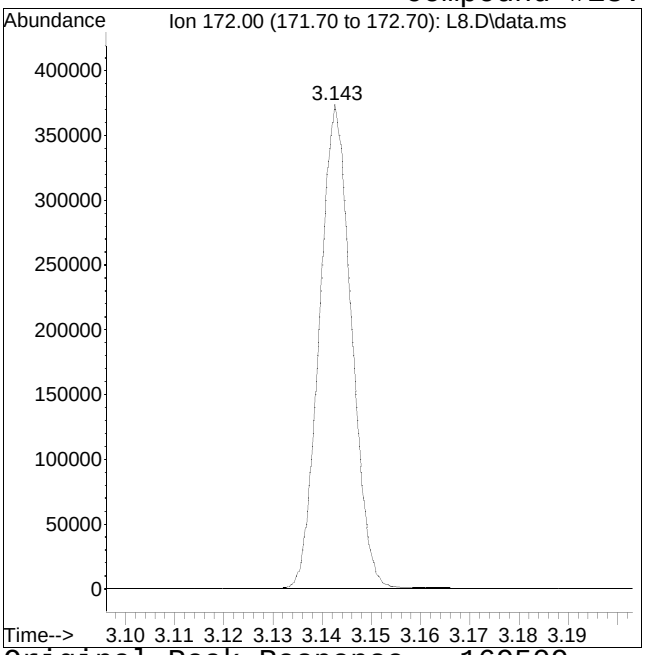


Original Peak Response = 133124 Manual Peak Response = 133700 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

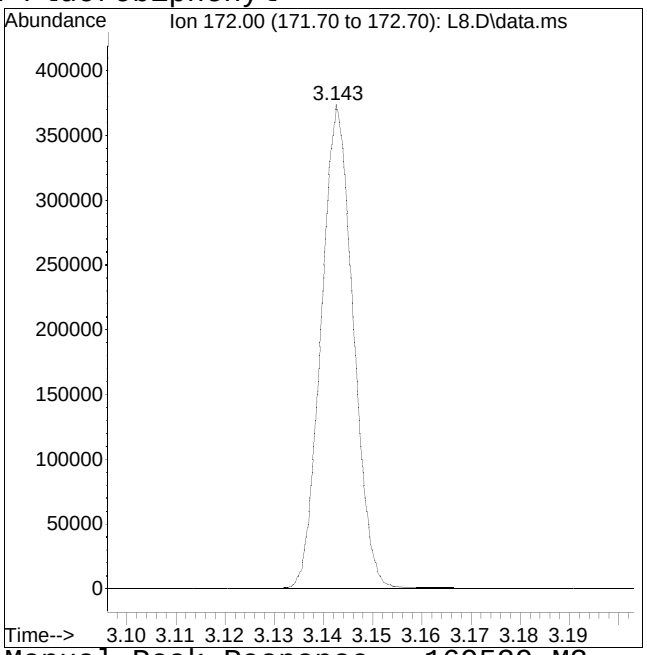
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L8.D
Date Inj'd : 6/21/2024 3:23 pm
Sample : IL8,32,, #10463 1000 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #13: 2-Fluorobiphenyl



Original Peak Response = 169509



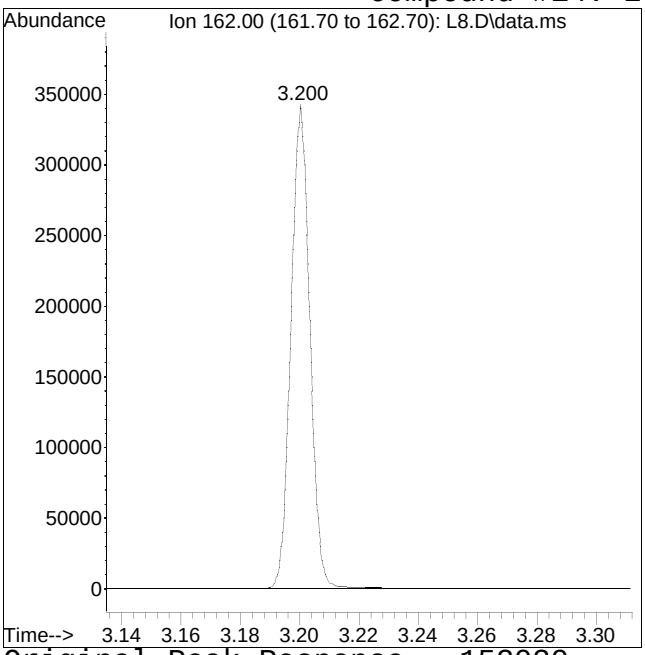
Manual Peak Response = 169529 M3

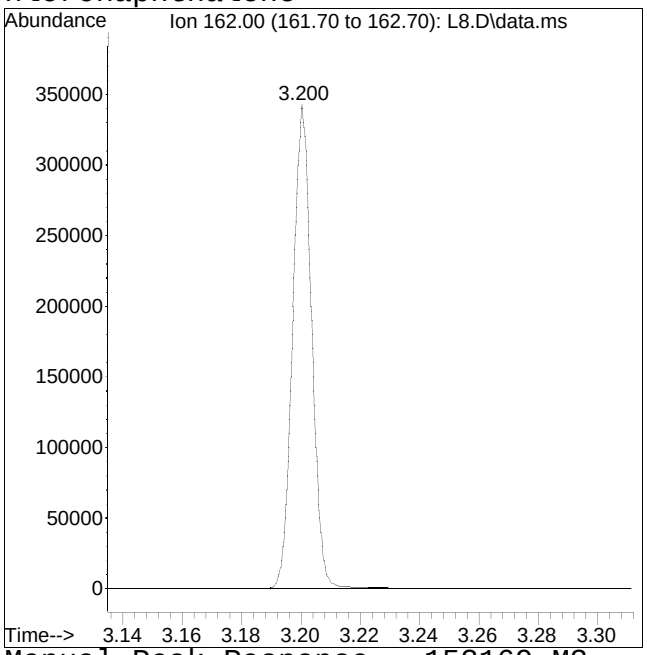
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L8.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:23 pm Instrument : SV119
Sample : IL8,32,, #10463 1000 ng/mlQuant Date : 6/26/2024 12:35 pm

Compound #14: 2-Chloronaphthalene



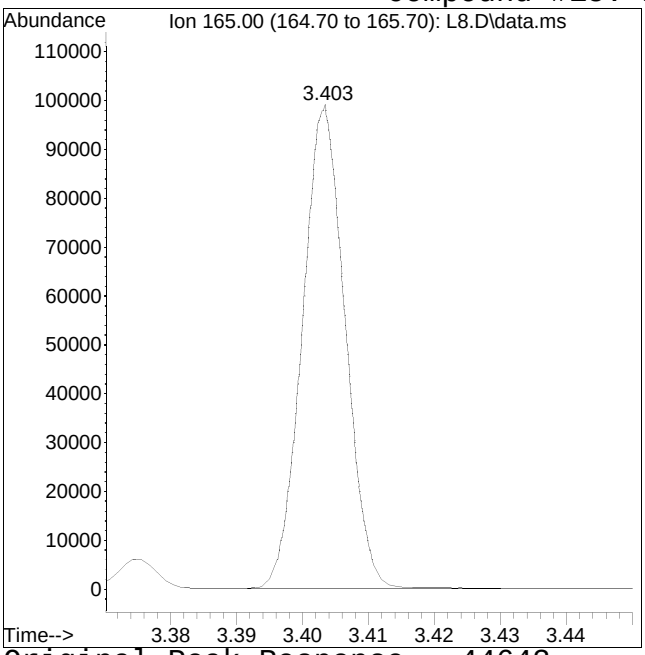


Original Peak Response = 152030 Manual Peak Response = 152169 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

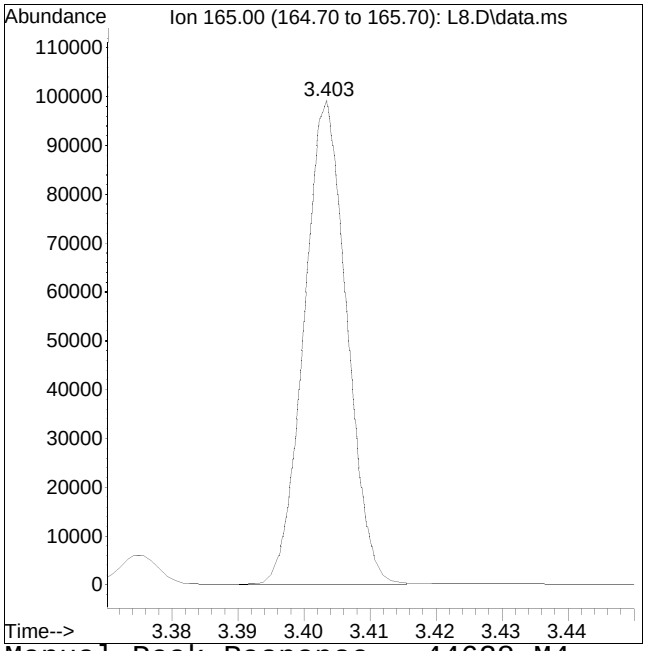
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L8.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:23 pm Instrument : SV119
Sample : IL8,32,, #10463 1000 ng/mlQuant Date : 6/26/2024 12:35 pm

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 44643



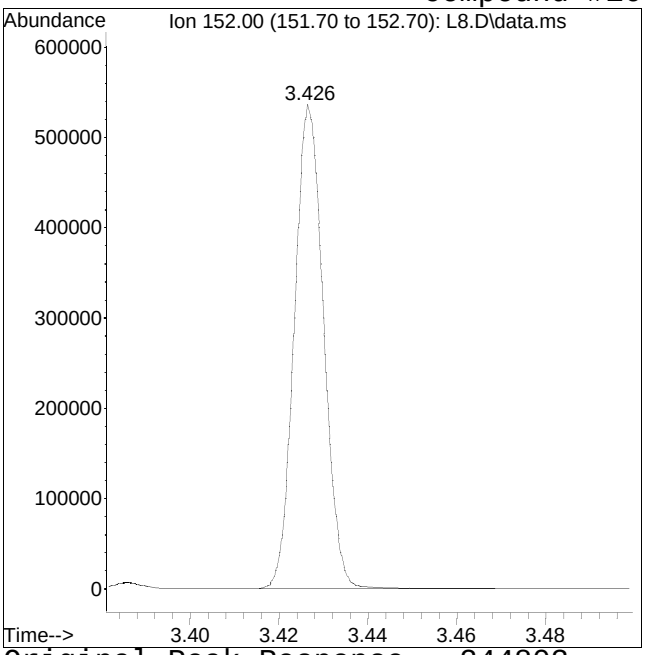
Manual Peak Response = 44628 M4

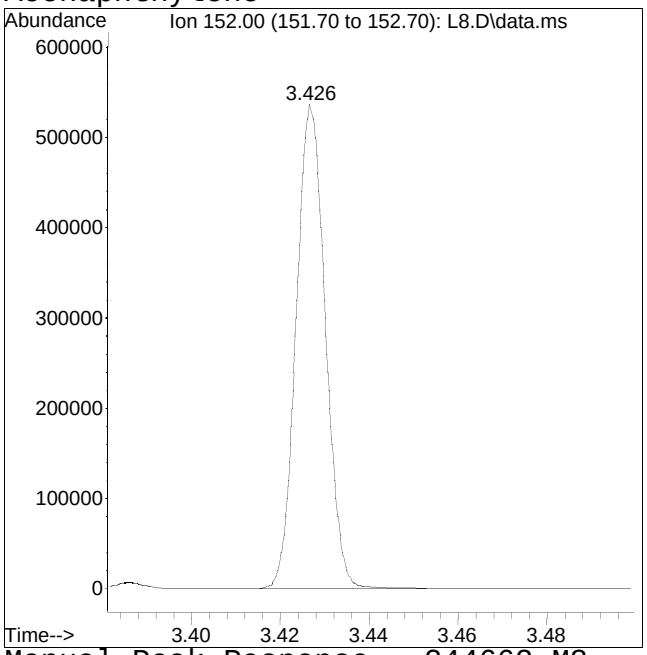
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L8.D
Date Inj'd : 6/21/2024 3:23 pm
Sample : IL8,32,, #10463 1000 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #16: Acenaphthylene





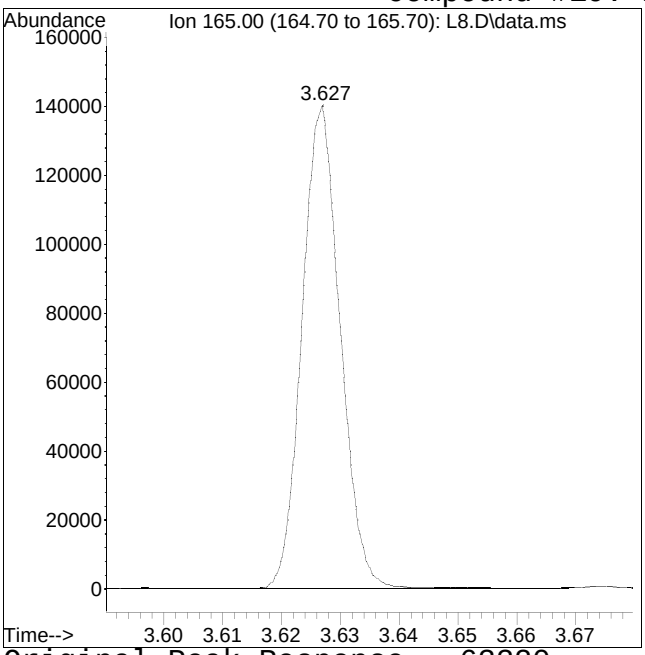
Original Peak Response = 244803 Manual Peak Response = 244662 M3

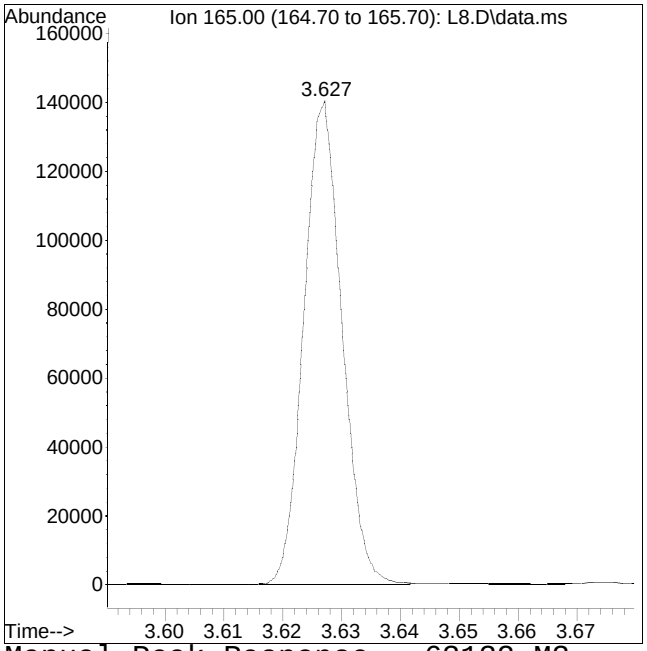
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L8.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:23 pm Instrument : SV119
Sample : IL8,32,, #10463 1000 ng/mlQuant Date : 6/26/2024 12:35 pm

Compound #19: 2,4-Dinitrotoluene



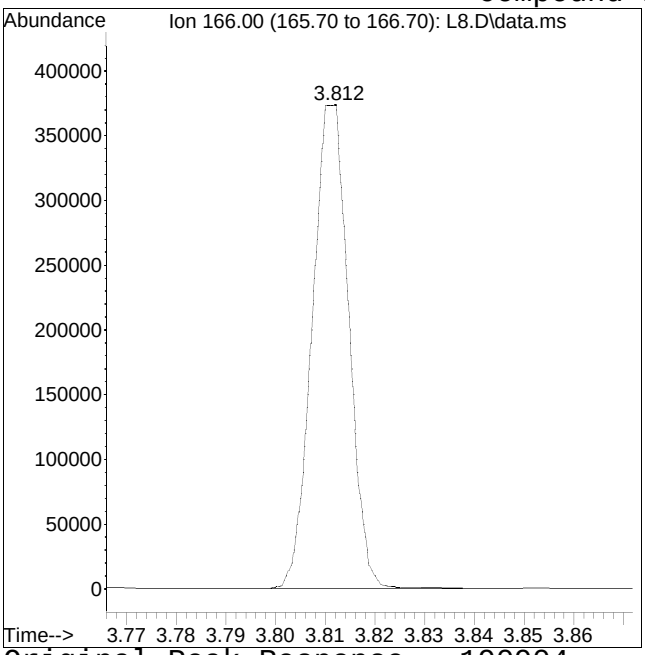


Original Peak Response = 63320 Manual Peak Response = 63132 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

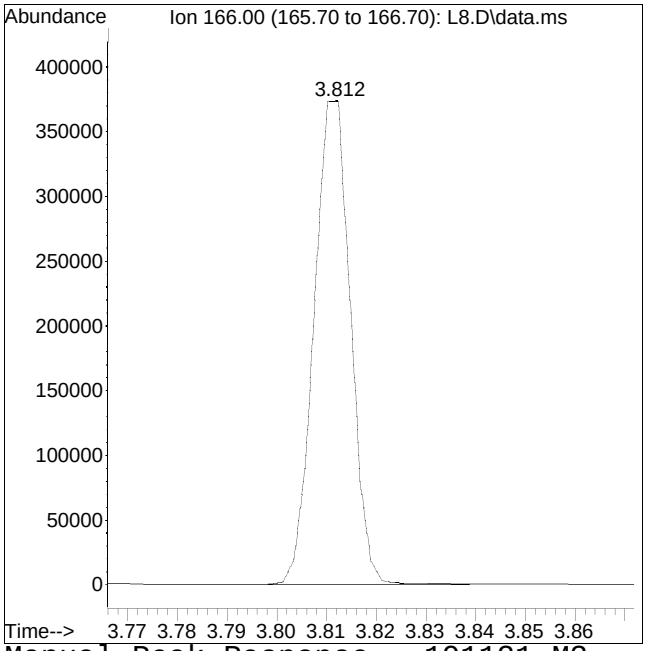
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L8.D
Date Inj'd : 6/21/2024 3:23 pm
Sample : IL8,32,, #10463 1000 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #20: Fluorene



Original Peak Response = 190904



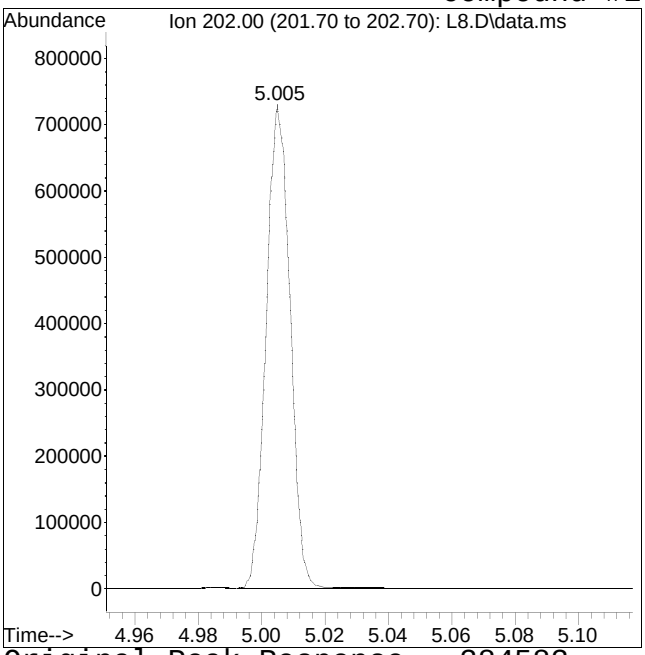
Manual Peak Response = 191121 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

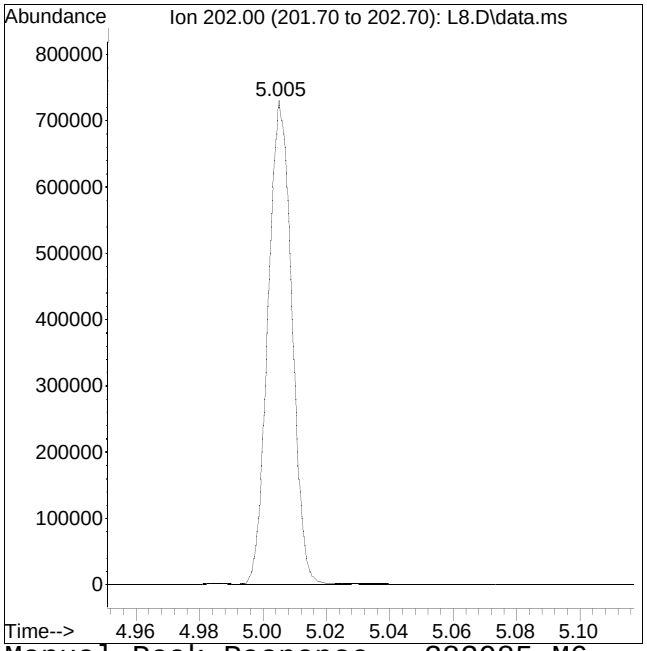
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L8.D
Date Inj'd : 6/21/2024 3:23 pm
Sample : IL8,32,, #10463 1000 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #28: Fluoranthene



Original Peak Response = 384583



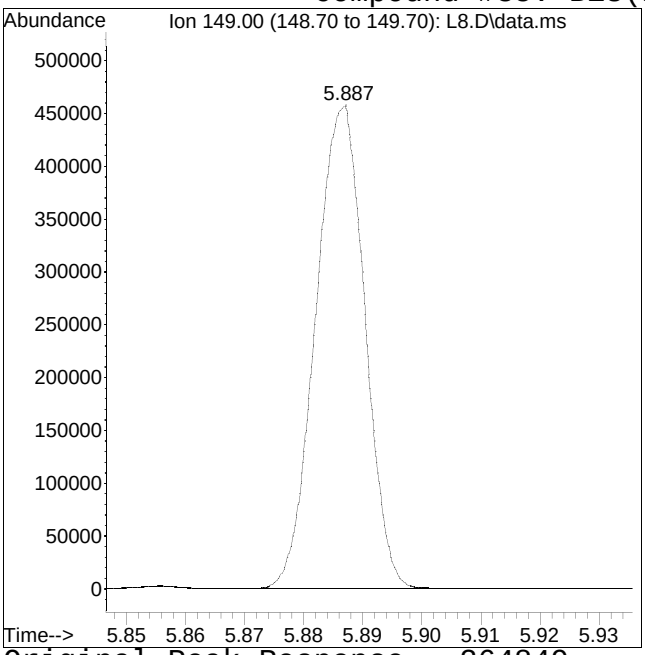
Manual Peak Response = 383985 M6

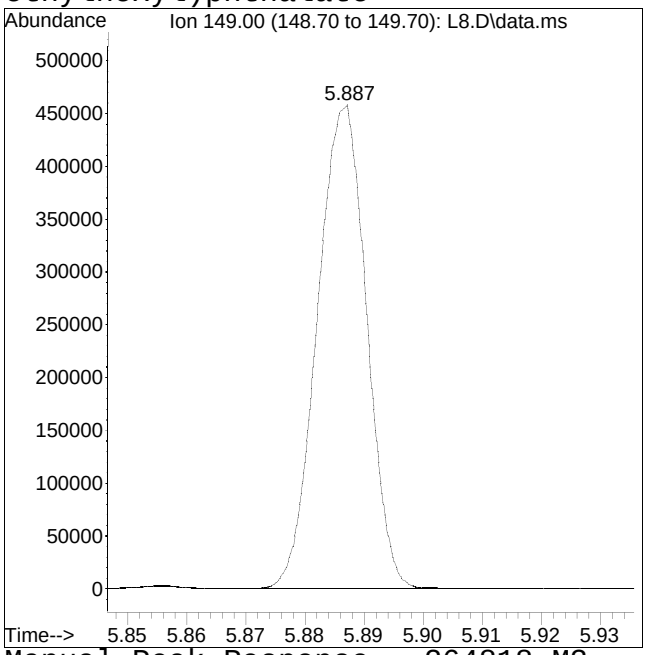
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L8.D
Date Inj'd : 6/21/2024 3:23 pm
Sample : IL8,32,, #10463 1000 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #35: Bis(2-ethylhexyl)phthalate



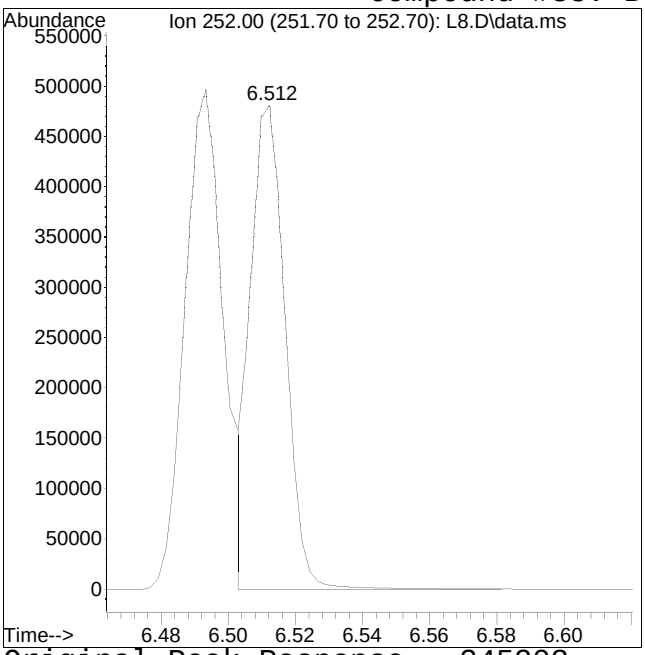


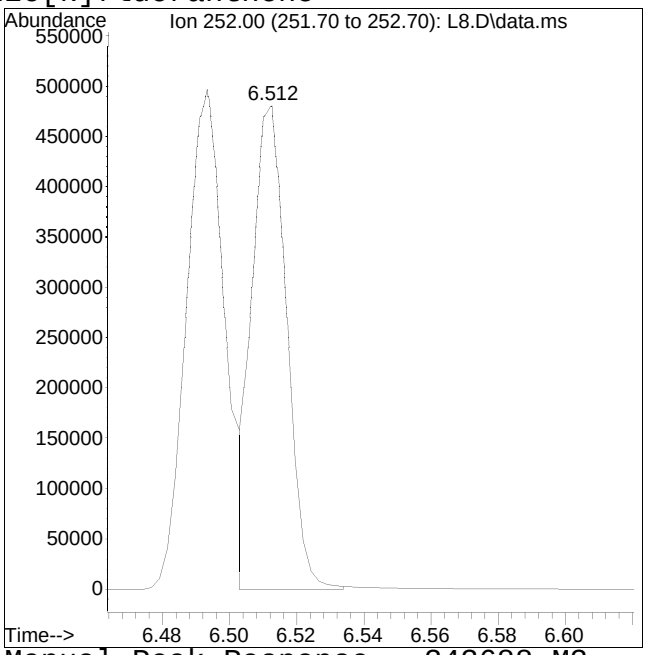
Original Peak Response = 264849 Manual Peak Response = 264818 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L8.D
Date Inj'd : 6/21/2024 3:23 pm
Sample : IL8,32,, #10463 1000 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #38: Benzo[k]fluoranthene





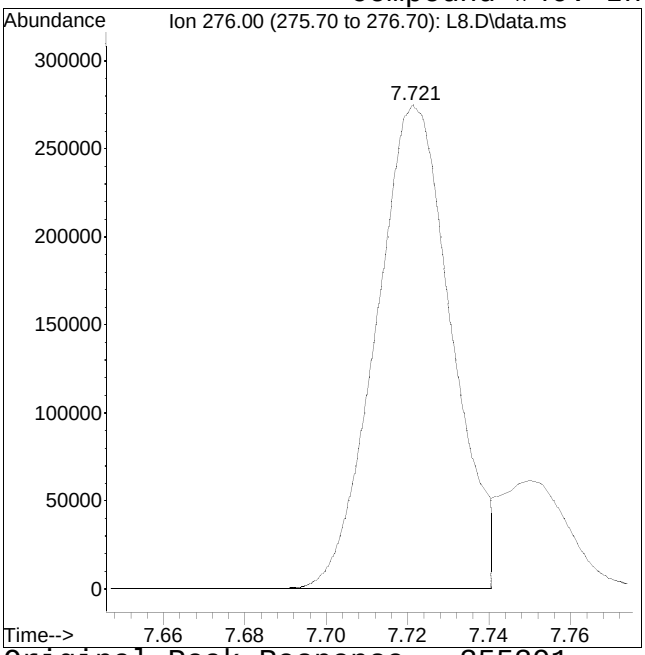
Original Peak Response = 345203 Manual Peak Response = 343688 M3

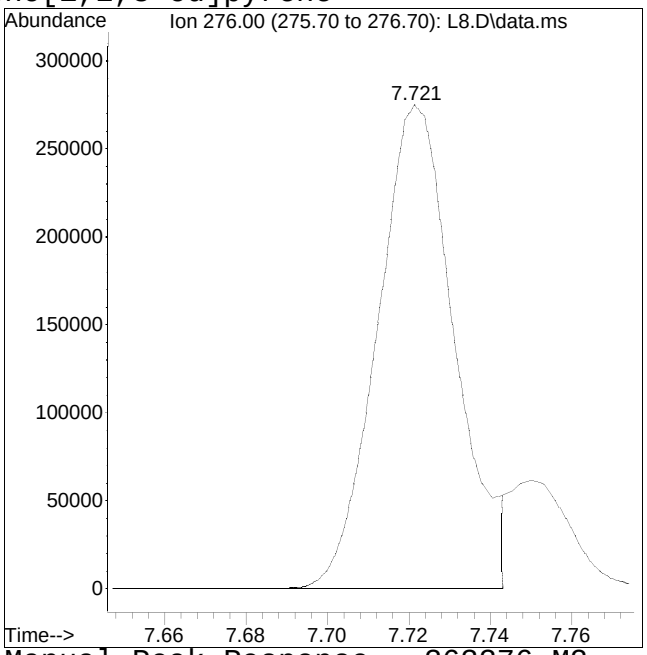
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L8.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:23 pm Instrument : SV119
Sample : IL8,32,, #10463 1000 ng/mlQuant Date : 6/26/2024 12:35 pm

Compound #40: Indeno[1,2,3-cd]pyrene



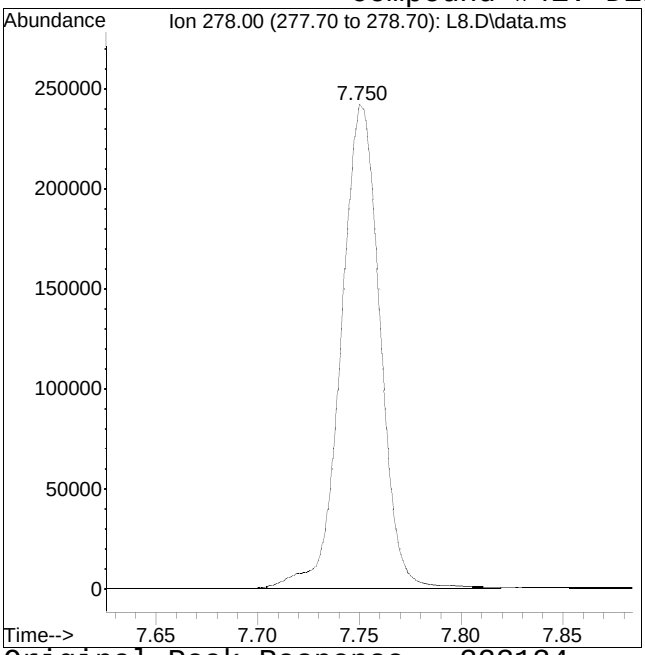


Original Peak Response = 355391 Manual Peak Response = 363376 M2
M2 = Peak not found by automatic integration algorithm.

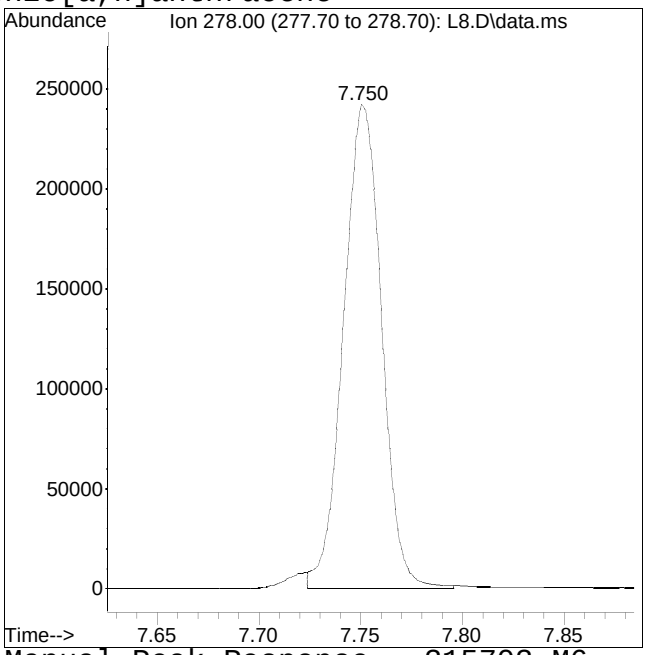
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L8.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:23 pm Instrument : SV119
Sample : IL8,32,, #10463 1000 ng/mlQuant Date : 6/26/2024 12:35 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 323134



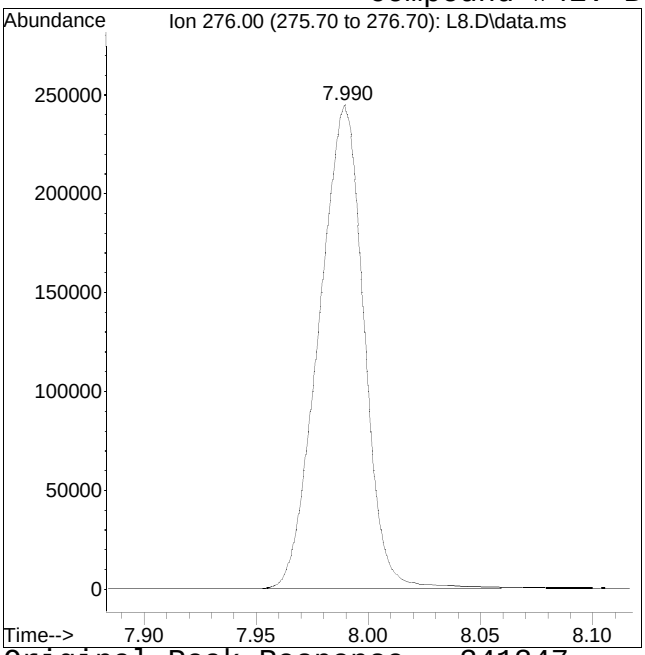
Manual Peak Response = 315703 M6

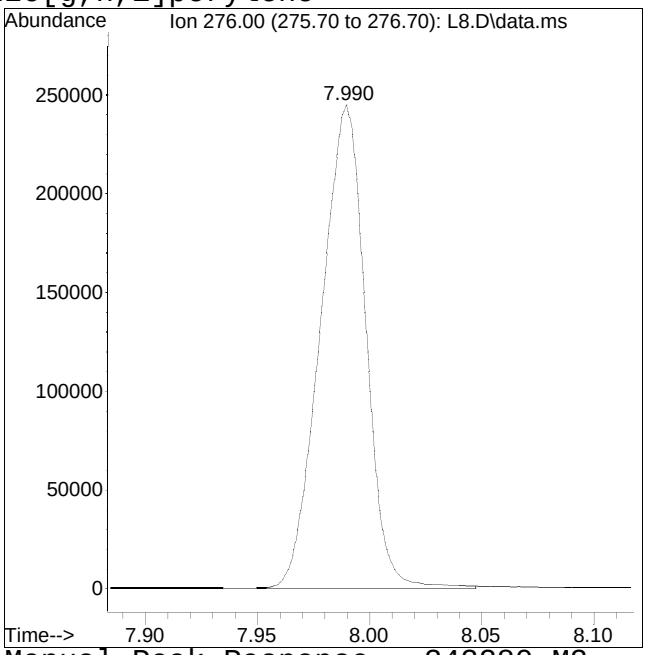
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L8.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:23 pm Instrument : SV119
Sample : IL8,32,, #10463 1000 ng/mlQuant Date : 6/26/2024 12:35 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 341347 Manual Peak Response = 342280 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L7.D
Acq On : 21 Jun 2024 03:39 pm
Operator : sv119:dv
Sample : IL7,32,, #10756 500 ng/ml
Misc : WG1939716,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 12:34:40 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.909	152	204302	4000.000	ng/ml	0.00
Standard Area 1 = 186265			Recovery	= 109.68%		
8) Naphthalene-d8	2.553	136	751559	4000.000	ng/ml	0.00
Standard Area 1 = 691724			Recovery	= 108.65%		
17) Acenaphthene-d10	3.511	164	459733	4000.000	ng/ml	0.00
Standard Area 1 = 424015			Recovery	= 108.42%		
22) Phenanthrene-d10	4.334	188	1096647	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery	= 106.72%		
31) Chrysene-d12	5.841	240	1070301	4000.000	ng/ml	0.00
Standard Area 1 = 965951			Recovery	= 110.80%		
36) Perylene-d12	6.781	264	1043335	4000.000	ng/ml	0.00
Standard Area 1 = 979854			Recovery	= 106.48%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.345	112	37971	526.875	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 26.34%		
3) Phenol-d6	1.740	99	48385	532.310	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 26.62%		
7) Nitrobenzene-d5	2.185	82	42833	537.215	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 53.72%		
13) 2-Fluorobiphenyl	3.147	172	99652	512.884	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 51.29%		
21) 2,4,6-Tribromophenol	3.949	330	18075	563.094	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 28.15%		
30) 4-Terphenyl-d14	5.237	244	152207	502.065	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 25.10%#		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.786	93	38197	523.054	ng/ml	100
5) n-nitrosodi-n-propylamine	2.114	70	29440	525.856	ng/ml	100
6) Hexachloroethane	2.156	117	17049	502.983	ng/ml	99
9) Naphthalene	2.564	128	104222	500.756	ng/ml	100
10) Hexachlorobutadiene	2.640	225	23451	503.513	ng/ml	100
11) 2-Methylnaphthalene	2.940	142	83802	537.408	ng/ml	99
12) 1-Methylnaphthalene	2.992	142	76547	507.841	ng/ml	99
14) 2-Chloronaphthalene	3.203	162	86207	513.121	ng/ml	100
15) 2,6-Dinitrotoluene	3.406	165	24385	539.019	ng/ml	99
16) Acenaphthylene	3.430	152	138843	517.274	ng/ml	100
18) Acenaphthene	3.528	153	82124	511.760	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L7.D
Acq On : 21 Jun 2024 03:39 pm
Operator : sv119:dv
Sample : IL7,32,, #10756 500 ng/ml
Misc : WG1939716,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 12:34:40 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.629	165	34468	560.872	ng/ml	99
20) Fluorene	3.814	166	109062	515.634	ng/ml	99
23) 4,6-Dinitro-o-cresol	3.854	198	21548	487.512	ng/ml	99
24) Hexachlorobenzene	4.125	284	38574	512.277	ng/ml	100
25) Pentachlorophenol	4.237	266	23228	508.657	ng/ml	99
26) Phenanthrene	4.345	178	158957	498.590	ng/ml	100
27) Anthracene	4.373	178	171955	522.029	ng/ml	100
28) Fluoranthene	5.009	202	220686	504.120	ng/ml	100
29) Pyrene	5.134	202	224446	494.774	ng/ml	100
32) Benzo[a]anthracene	5.833	228	218035	534.660	ng/ml	100
33) 3,3'-Dichlorobenzene	5.831	252	87919	537.821	ng/ml	99
34) Chrysene	5.854	228	202249	507.722	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	5.884	149	137675	482.910	ng/ml	99
37) Benzo[b]fluoranthene	6.491	252	215596	498.919	ng/ml	99
38) Benzo[k]fluoranthene	6.510	252	203294	509.232	ng/ml	99
39) Benzo[a]pyrene	6.726	252	194869	509.166	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.719	276	192780	498.282	ng/ml	99
41) Dibenzo[a,h]anthracene	7.750	278	170184M6	493.806	ng/ml	
42) Benzo[g,h,i]perylene	7.982	276	186688	490.574	ng/ml	100

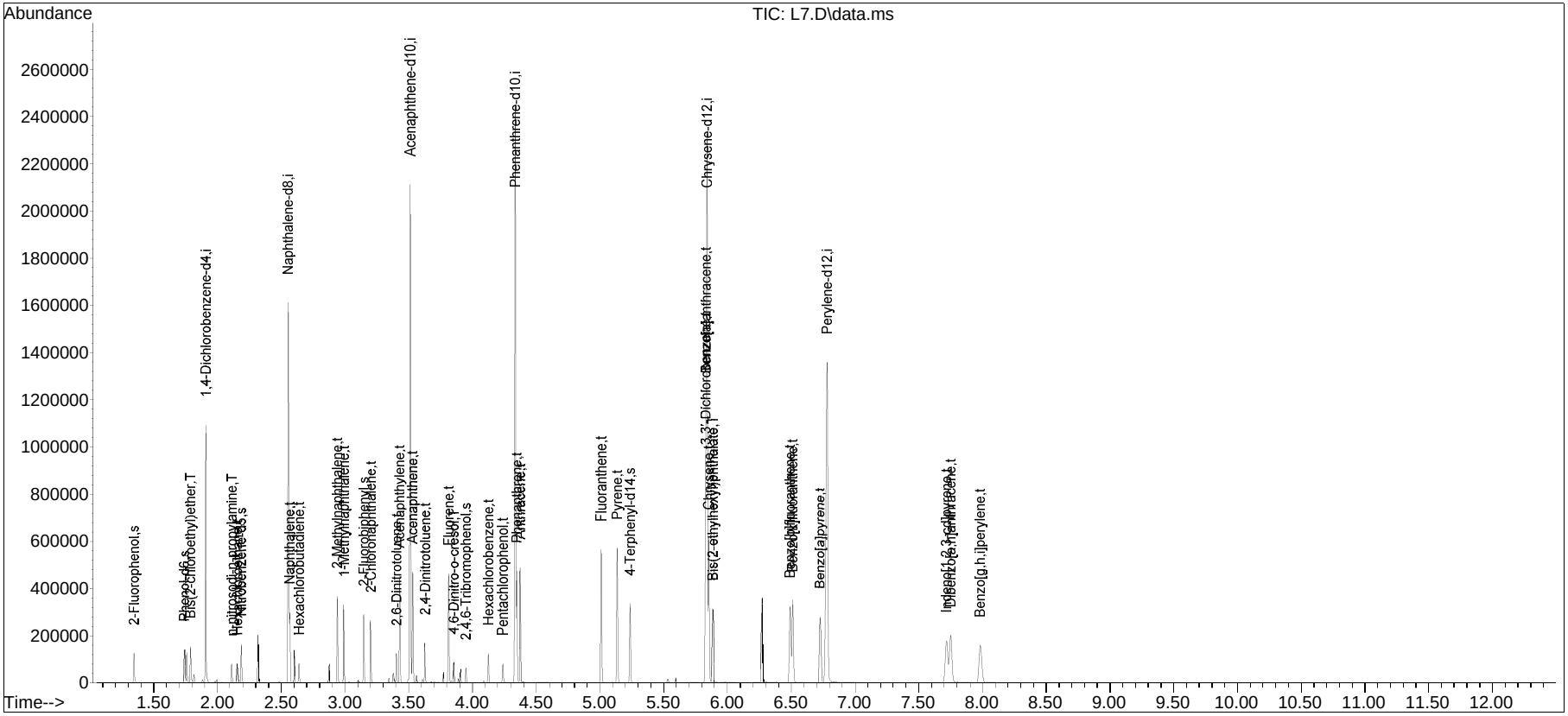
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L7.D
Acq On : 21 Jun 2024 03:39 pm
Operator : sv119:dv
Sample : IL7,32,, #10756 500 ng/ml
Misc : WG1939716,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 12:34:40 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:32 2024
Response via : Initial Calibration

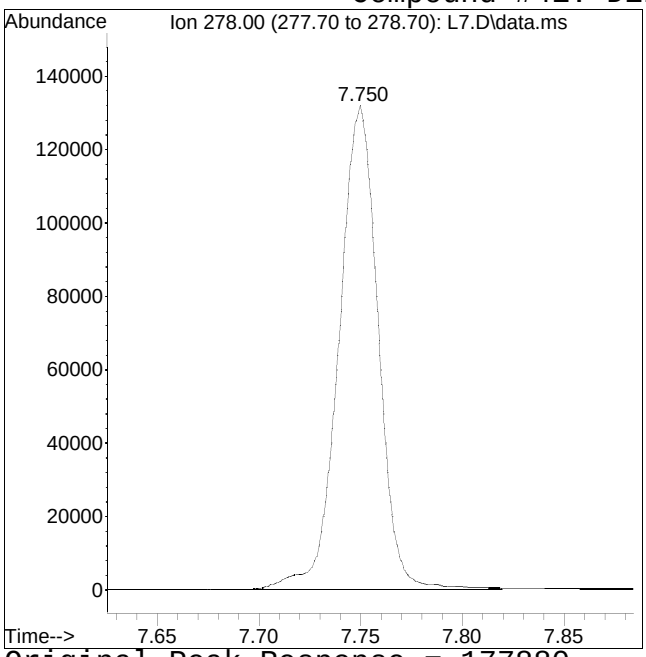
Sub List : Default - All compounds listedical\L8.D•



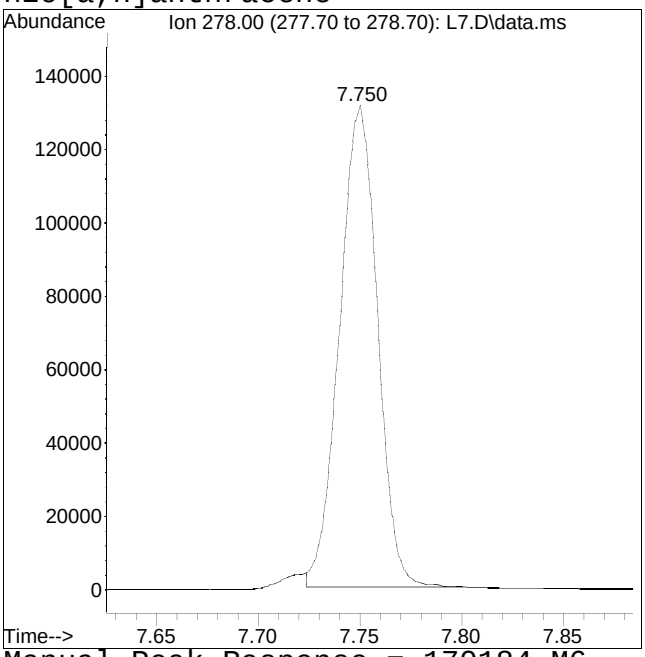
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L7.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:39 pm Instrument : SV119
Sample : IL7,32,, #10756 500 ng/ml Quant Date : 6/26/2024 12:35 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 177880



Manual Peak Response = 170184 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L6.D
Acq On : 21 Jun 2024 03:55 pm
Operator : sv119:dv
Sample : IL6,32,, #10465 100 ng/ml
Misc : WG1939716,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 12:34:34 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.910	152	209209	4000.000	ng/ml	0.00
Standard Area 1 = 186265			Recovery = 112.32%			
8) Naphthalene-d8	2.556	136	740351	4000.000	ng/ml	0.00
Standard Area 1 = 691724			Recovery = 107.03%			
17) Acenaphthene-d10	3.512	164	452145	4000.000	ng/ml	0.00
Standard Area 1 = 424015			Recovery = 106.63%			
22) Phenanthrene-d10	4.334	188	1079747	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery = 105.08%			
31) Chrysene-d12	5.839	240	1140426	4000.000	ng/ml	0.00
Standard Area 1 = 965951			Recovery = 118.06%			
36) Perylene-d12	6.774	264	1053034	4000.000	ng/ml	0.00
Standard Area 1 = 979854			Recovery = 107.47%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.347	112	7780	105.421	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.27%#			
3) Phenol-d6	1.743	99	9644	103.610	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.18%#			
7) Nitrobenzene-d5	2.188	82	8470	103.740	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.37%#			
13) 2-Fluorobiphenyl	3.148	172	21295	111.259	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 11.13%#			
21) 2,4,6-Tribromophenol	3.949	330	3205	101.522	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.08%#			
30) 4-Terphenyl-d14	5.237	244	33328	111.655	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 5.58%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.791	93	8036	107.461	ng/ml	100
5) n-nitrosodi-n-propylamine	2.118	70	5504	96.006	ng/ml	99
6) Hexachloroethane	2.159	117	3479	100.231	ng/ml	100
9) Naphthalene	2.567	128	20534	100.153	ng/ml	100
10) Hexachlorobutadiene	2.641	225	4717	102.811	ng/ml	100
11) 2-Methylnaphthalene	2.941	142	16747	109.022	ng/ml	99
12) 1-Methylnaphthalene	2.993	142	15622	105.211	ng/ml	98
14) 2-Chloronaphthalene	3.204	162	17557	106.085	ng/ml	100
15) 2,6-Dinitrotoluene	3.407	165	4401	98.755	ng/ml	98
16) Acenaphthylene	3.431	152	27470	103.892	ng/ml	100
18) Acenaphthene	3.529	153	15901	100.751	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L6.D
Acq On : 21 Jun 2024 03:55 pm
Operator : sv119:dv
Sample : IL6,32,, #10465 100 ng/ml
Misc : WG1939716,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 12:34:34 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:26 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.631	165	5817	96.244	ng/ml	95
20) Fluorene	3.814	166	21606	103.865	ng/ml	98
23) 4,6-Dinitro-o-cresol	3.856	198	2885	86.397	ng/ml	96
24) Hexachlorobenzene	4.126	284	7838	105.721	ng/ml	99
25) Pentachlorophenol	4.240	266	3148	75.168	ng/ml	99
26) Phenanthrene	4.345	178	31388	99.994	ng/ml	98
27) Anthracene	4.373	178	33024	101.825	ng/ml	100
28) Fluoranthene	5.009	202	46312	107.448	ng/ml	100
29) Pyrene	5.134	202	47836	107.101	ng/ml	99
32) Benzo[a]anthracene	5.831	228	47460	102.777	ng/ml	98
33) 3,3'-Dichlorobenzene	5.828	252	16757	96.203	ng/ml	99
34) Chrysene	5.852	228	41746	98.354	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	5.883	149	24460	91.642	ng/ml	99
37) Benzo[b]fluoranthene	6.486	252	46371	106.321	ng/ml	98
38) Benzo[k]fluoranthene	6.505	252	44088	109.419	ng/ml	97
39) Benzo[a]pyrene	6.721	252	39529	102.333	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.712	276	39190	100.362	ng/ml	99
41) Dibenzo[a,h]anthracene	7.743	278	35608M6	102.369	ng/ml	
42) Benzo[g,h,i]perylene	7.980	276	38404	99.988	ng/ml	99

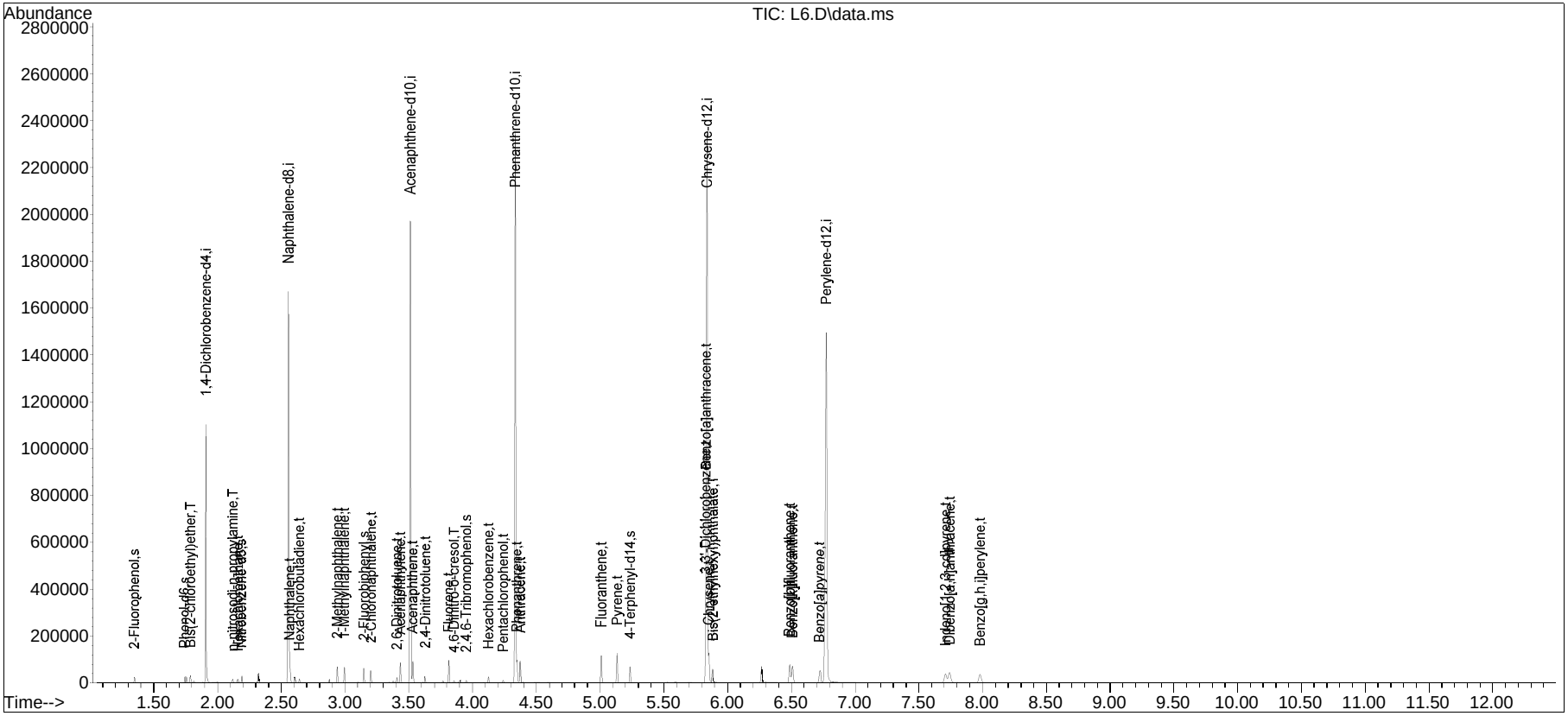
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L6.D
Acq On : 21 Jun 2024 03:55 pm
Operator : sv119:dv
Sample : IL6,32,, #10465 100 ng/ml
Misc : WG1939716,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 12:34:34 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:26 2024
Response via : Initial Calibration

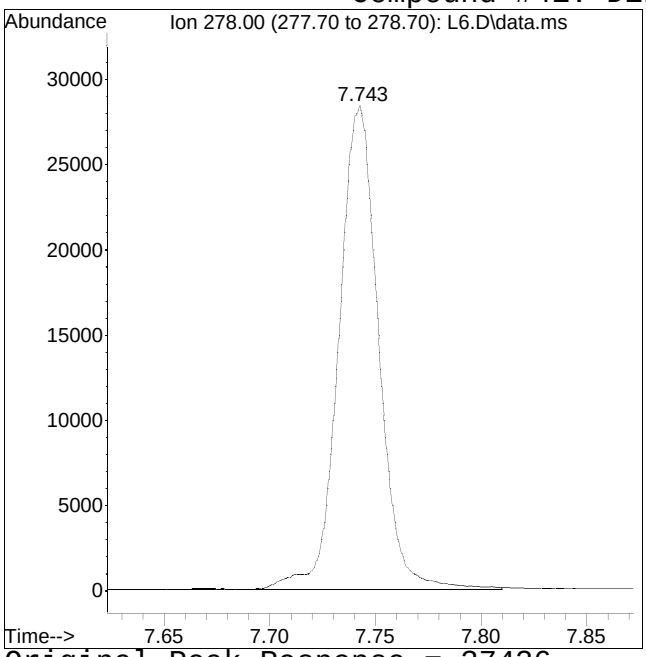
Sub List : Default - All compounds listedical\L8.D•



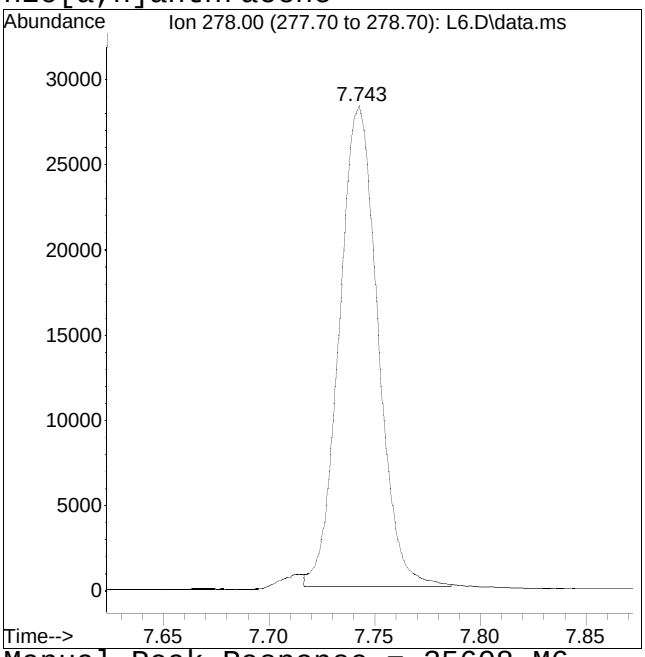
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L6.D Operator : sv119:dv
Date Inj'd : 6/21/2024 3:55 pm Instrument : SV119
Sample : IL6,32,, #10465 100 ng/ml Quant Date : 6/26/2024 12:35 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 37436



Manual Peak Response = 35608 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L5.D
Acq On : 21 Jun 2024 04:12 pm
Operator : sv119:dv
Sample : IL5,32,, #10757 40 ng/ml
Misc : WG1939716,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 12:34:28 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.911	152	200302	4000.000	ng/ml	0.00
Standard Area 1 = 186265			Recovery	= 107.54%		
8) Naphthalene-d8	2.555	136	701205	4000.000	ng/ml	0.00
Standard Area 1 = 691724			Recovery	= 101.37%		
17) Acenaphthene-d10	3.512	164	427946	4000.000	ng/ml	0.00
Standard Area 1 = 424015			Recovery	= 100.93%		
22) Phenanthrene-d10	4.333	188	1016976	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery	= 98.97%		
31) Chrysene-d12	5.836	240	1071660	4000.000	ng/ml	0.00
Standard Area 1 = 965951			Recovery	= 110.94%		
36) Perylene-d12	6.774	264	989408	4000.000	ng/ml	0.00
Standard Area 1 = 979854			Recovery	= 100.98%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.349	112	3030	42.883	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 2.14%#		
3) Phenol-d6	1.744	99	3710	41.631	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 2.08%#		
7) Nitrobenzene-d5	2.190	82	3202	40.962	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 4.10%#		
13) 2-Fluorobiphenyl	3.148	172	8046	44.385	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 4.44%#		
21) 2,4,6-Tribromophenol	3.949	330	1198	40.094	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 2.00%#		
30) 4-Terphenyl-d14	5.235	244	12929	45.988	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 2.30%#		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.792	93	2992M4	41.789	ng/ml	
5) n-nitrosodi-n-propylamine	2.117	70	2088	38.041	ng/ml	98
6) Hexachloroethane	2.158	117	1336	40.202	ng/ml	100
9) Naphthalene	2.566	128	7912	40.745	ng/ml	99
10) Hexachlorobutadiene	2.640	225	1848	42.527	ng/ml	100
11) 2-Methylnaphthalene	2.941	142	6330	43.508	ng/ml	99
12) 1-Methylnaphthalene	2.995	142	5879M6	41.804	ng/ml	
14) 2-Chloronaphthalene	3.206	162	6793	43.337	ng/ml	100
15) 2,6-Dinitrotoluene	3.407	165	1600	37.907	ng/ml	96
16) Acenaphthylene	3.431	152	10607	42.355	ng/ml	99
18) Acenaphthene	3.529	153	6043	40.454	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L5.D
Acq On : 21 Jun 2024 04:12 pm
Operator : sv119:dv
Sample : IL5,32,, #10757 40 ng/ml
Misc : WG1939716,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 12:34:28 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.633	165	2002	34.997	ng/ml	89
20) Fluorene	3.814	166	8190	41.598	ng/ml	97
23) 4,6-Dinitro-o-cresol	3.858	198	976	46.132	ng/ml	96
24) Hexachlorobenzene	4.126	284	3043	43.578	ng/ml	99
25) Pentachlorophenol	4.240	266	1059	29.625	ng/ml	98
26) Phenanthrene	4.345	178	11761M6	39.780	ng/ml	
27) Anthracene	4.375	178	12291	40.237	ng/ml	100
28) Fluoranthene	5.009	202	17675	43.539	ng/ml	99
29) Pyrene	5.132	202	18547	44.088	ng/ml	99
32) Benzo[a]anthracene	5.828	228	19860	41.274	ng/ml	95
33) 3,3'-Dichlorobenzene	5.827	252	6080	37.146	ng/ml#	83
34) Chrysene	5.849	228	15648	39.233	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	5.879	149	8891	43.633	ng/ml	99
37) Benzo[b]fluoranthene	6.484	252	16977	41.428	ng/ml	99
38) Benzo[k]fluoranthene	6.503	252	17564	46.394	ng/ml	95
39) Benzo[a]pyrene	6.719	252	14757	40.660	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.712	276	14606	39.810	ng/ml	98
41) Dibenzo[a,h]anthracene	7.740	278	13633M6	41.714	ng/ml	
42) Benzo[g,h,i]perylene	7.978	276	14701	40.736	ng/ml	99

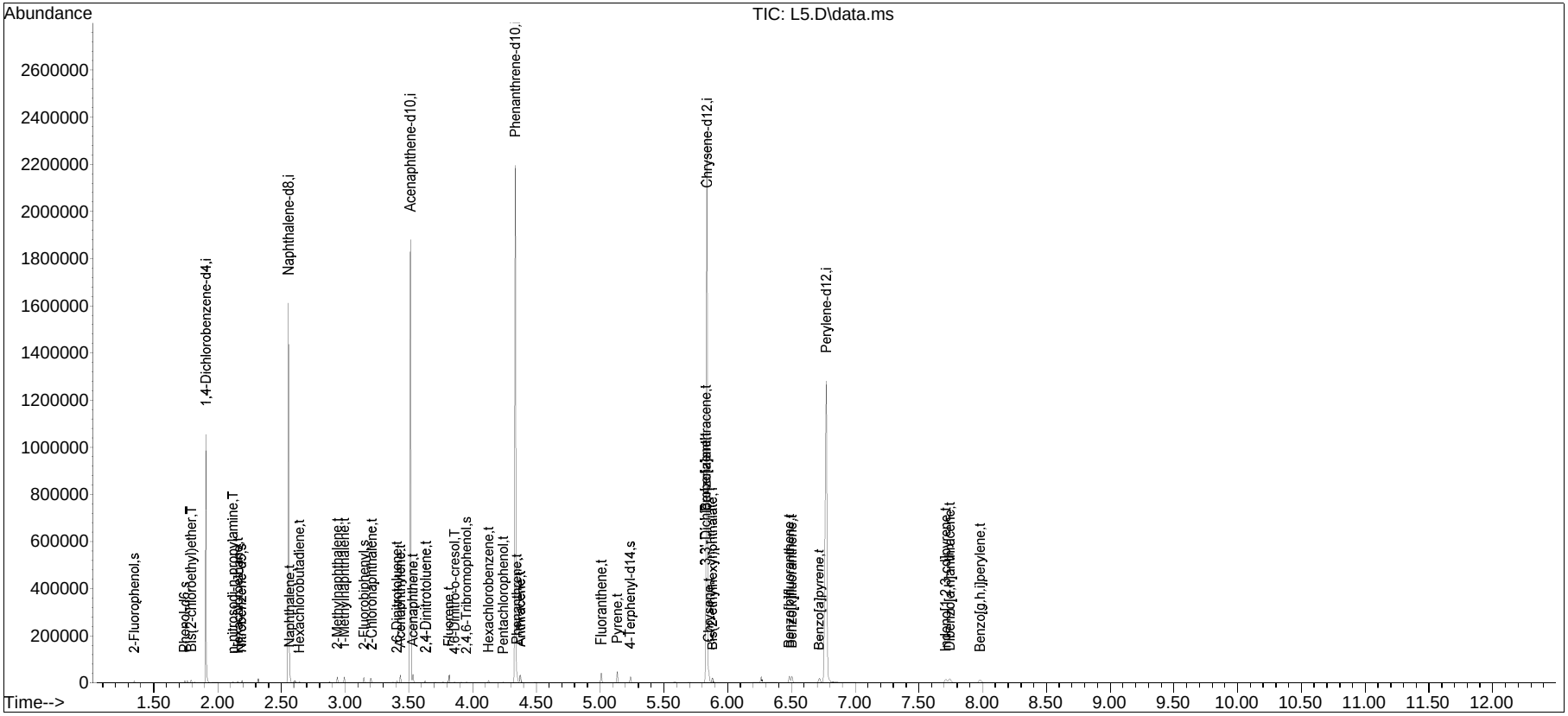
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L5.D
Acq On : 21 Jun 2024 04:12 pm
Operator : sv119:dv
Sample : IL5,32,, #10757 40 ng/ml
Misc : WG1939716,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 12:34:28 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:19 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

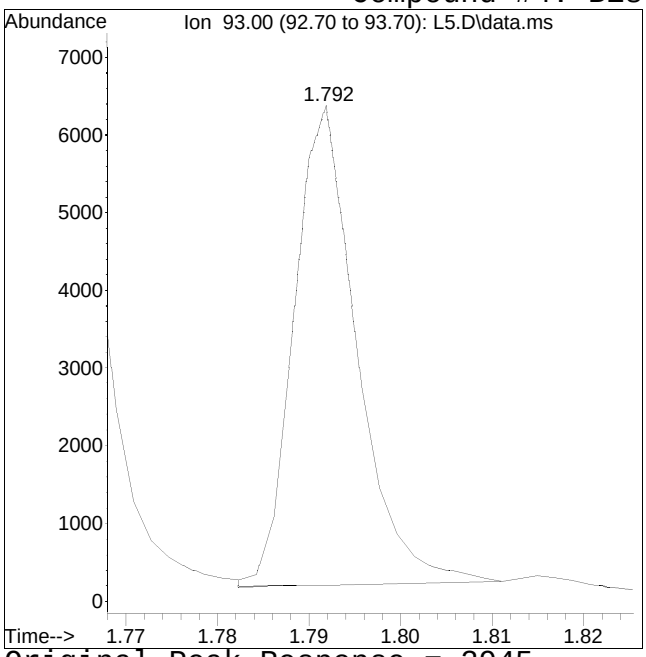


Manual Integration Report

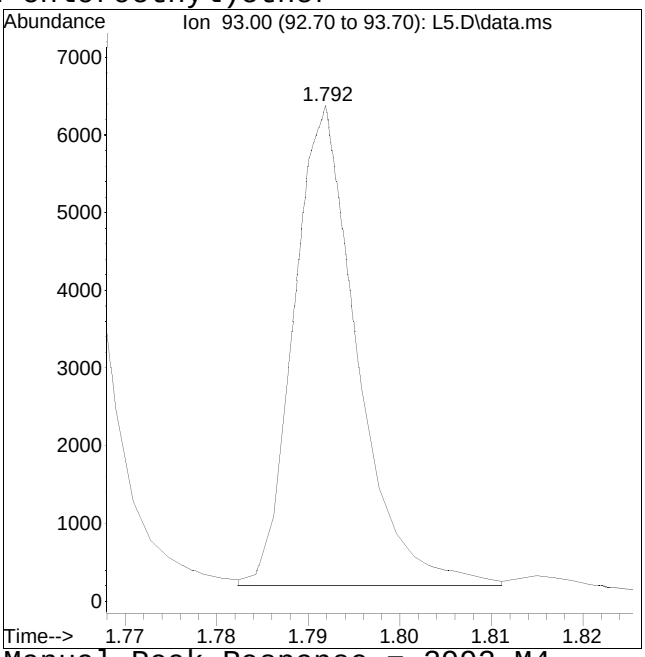
Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L5.D
Date Inj'd : 6/21/2024 4:12 pm
Sample : IL5,32,, #10757 40 ng/ml

Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 2945



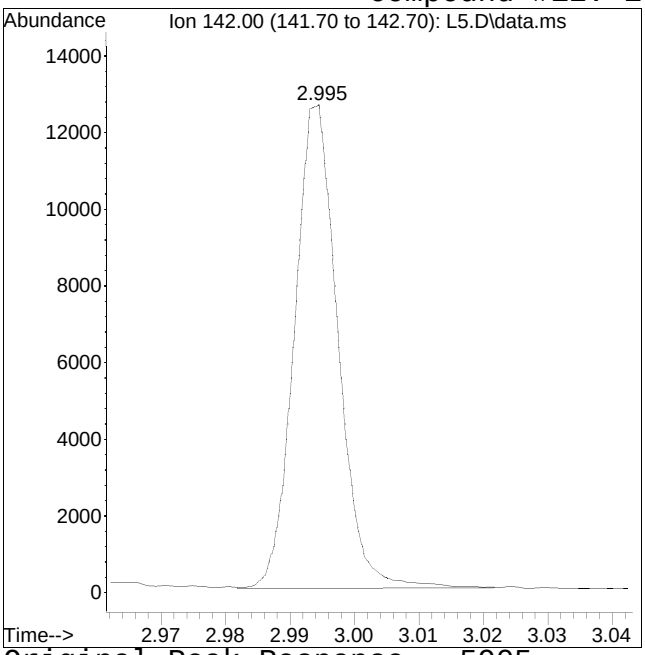
Manual Peak Response = 2992 M4

M4 = Poor automated baseline construction.

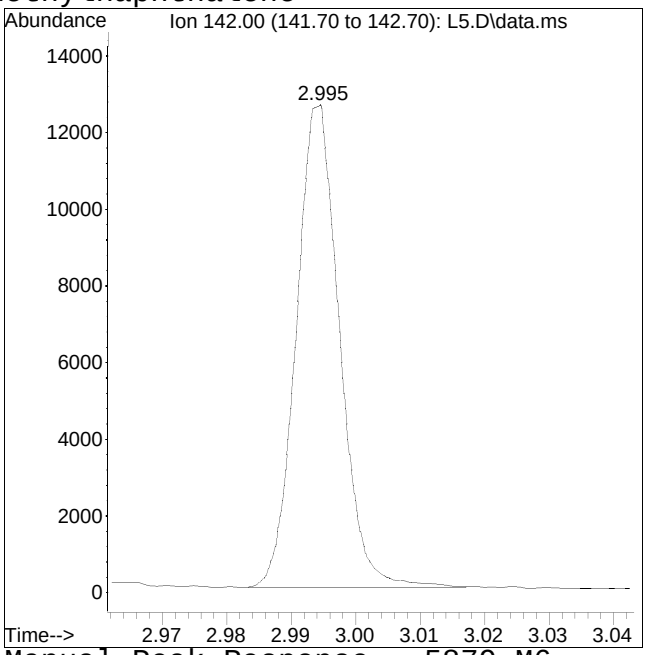
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L5.D
Date Inj'd : 6/21/2024 4:12 pm
Sample : IL5,32,, #10757 40 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #12: 1-Methylnaphthalene



Original Peak Response = 5905



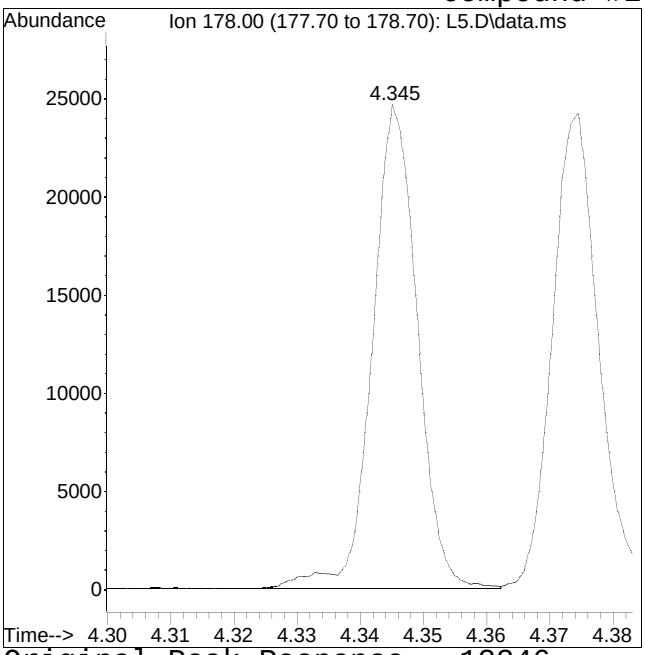
Manual Peak Response = 5879 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

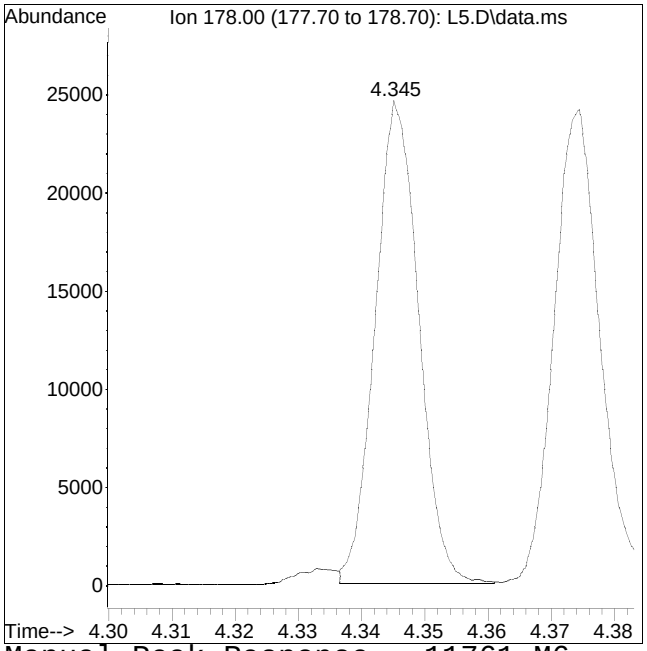
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L5.D Operator : sv119:dv
Date Inj'd : 6/21/2024 4:12 pm Instrument : SV119
Sample : IL5,32,, #10757 40 ng/ml Quant Date : 6/26/2024 12:35 pm

Compound #26: Phenanthrene



Original Peak Response = 12246



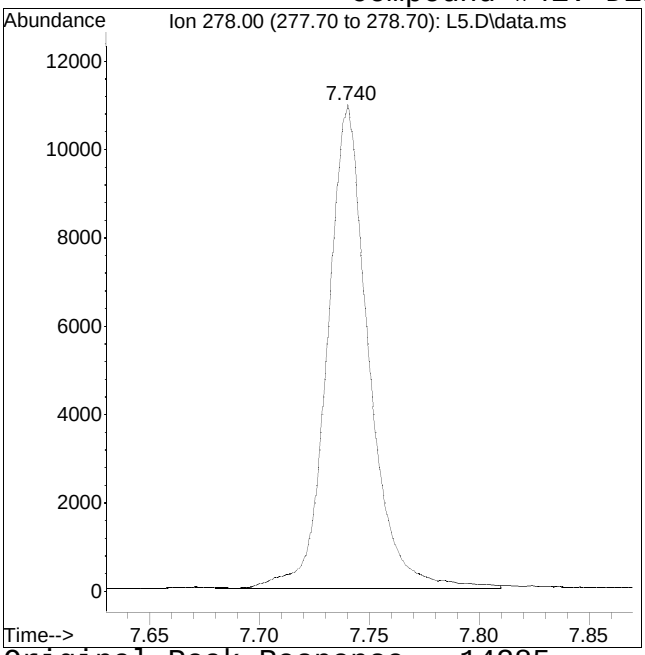
Manual Peak Response = 11761 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

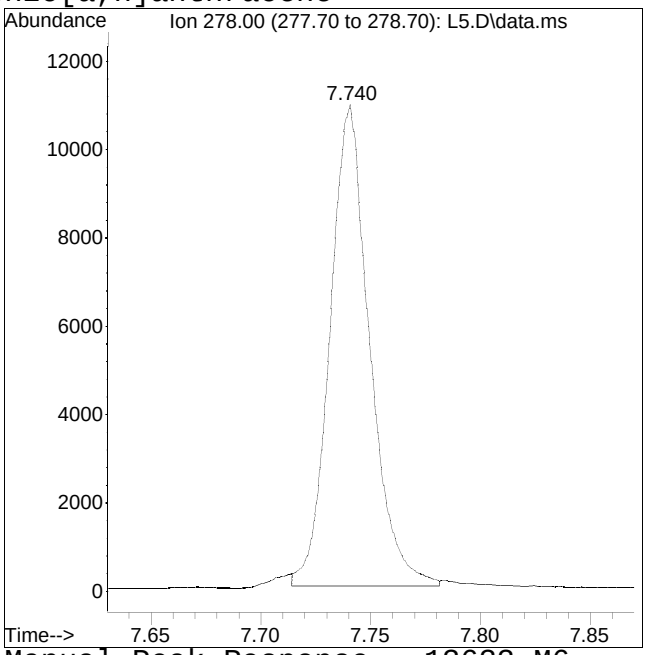
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L5.D Operator : sv119:dv
Date Inj'd : 6/21/2024 4:12 pm Instrument : SV119
Sample : IL5,32,, #10757 40 ng/ml Quant Date : 6/26/2024 12:35 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 14285



Manual Peak Response = 13633 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L4.D
Acq On : 21 Jun 2024 04:28 pm
Operator : sv119:dv
Sample : IL4,32,, #10468 10 ng/ml
Misc : WG1939716,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 12:34:22 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.913	152	213427	4000.000	ng/ml	0.00
Standard Area 1 = 186265			Recovery = 114.58%			
8) Naphthalene-d8	2.557	136	742567	4000.000	ng/ml	0.00
Standard Area 1 = 691724			Recovery = 107.35%			
17) Acenaphthene-d10	3.512	164	453515	4000.000	ng/ml	0.00
Standard Area 1 = 424015			Recovery = 106.96%			
22) Phenanthrene-d10	4.334	188	1070494	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery = 104.18%			
31) Chrysene-d12	5.835	240	1128280	4000.000	ng/ml	0.00
Standard Area 1 = 965951			Recovery = 116.81%			
36) Perylene-d12	6.769	264	1013190	4000.000	ng/ml	-0.01
Standard Area 1 = 979854			Recovery = 103.40%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.352	112	756	10.042	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.50%#			
3) Phenol-d6	1.748	99	913	9.615	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.48%#			
7) Nitrobenzene-d5	2.192	82	771	9.257	ng/ml	0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.93%#			
13) 2-Fluorobiphenyl	3.150	172	2120	11.043	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.10%#			
21) 2,4,6-Tribromophenol	3.951	330	290	9.158	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.46%#			
30) 4-Terphenyl-d14	5.235	244	3341	11.290	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.56%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.794	93	784M6	10.277	ng/ml	
5) n-nitrosodi-n-propylamine	2.122	70	541	9.250	ng/ml	97
6) Hexachloroethane	2.161	117	364	10.280	ng/ml	93
9) Naphthalene	2.568	128	2080	10.115	ng/ml#	95
10) Hexachlorobutadiene	2.643	225	465	10.105	ng/ml	96
11) 2-Methylnaphthalene	2.944	142	1584	10.281	ng/ml	95
12) 1-Methylnaphthalene	2.995	142	1526	10.247	ng/ml	99
14) 2-Chloronaphthalene	3.207	162	1719	10.356	ng/ml	97
15) 2,6-Dinitrotoluene	3.408	165	446	9.978	ng/ml	98
16) Acenaphthylene	3.431	152	2751	10.373	ng/ml	99
18) Acenaphthene	3.529	153	1525	9.633	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L4.D
Acq On : 21 Jun 2024 04:28 pm
Operator : sv119:dv
Sample : IL4,32,, #10468 10 ng/ml
Misc : WG1939716,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 12:34:22 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:14 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.636	165	489	8.066	ng/ml#	80
20) Fluorene	3.817	166	2091	10.022	ng/ml	95
23) 4,6-Dinitro-o-cresol	3.863	198	160	27.090	ng/ml	95
24) Hexachlorobenzene	4.127	284	784	10.666	ng/ml	98
25) Pentachlorophenol	4.242	266	244	9.794	ng/ml	94
26) Phenanthrene	4.346	178	3004	9.653	ng/ml	100
27) Anthracene	4.376	178	3071	9.551	ng/ml	99
28) Fluoranthene	5.009	202	4526	10.591	ng/ml	99
29) Pyrene	5.134	202	4681	10.571	ng/ml	99
32) Benzo[a]anthracene	5.828	228	7340	9.231	ng/ml#	86
33) 3,3'-Dichlorobenzene	5.823	252	1462	8.484	ng/ml#	23
34) Chrysene	5.848	228	3974	9.464	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	5.878	149	2249	20.623	ng/ml	99
37) Benzo[b]fluoranthene	6.481	252	4284	10.209	ng/ml	98
38) Benzo[k]fluoranthene	6.500	252	4243	10.945	ng/ml	99
39) Benzo[a]pyrene	6.717	252	3601	9.689	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.707	276	3518	9.364	ng/ml	98
41) Dibenzo[a,h]anthracene	7.738	278	3222M6	9.627	ng/ml	
42) Benzo[g,h,i]perylene	7.973	276	3485	9.430	ng/ml	99

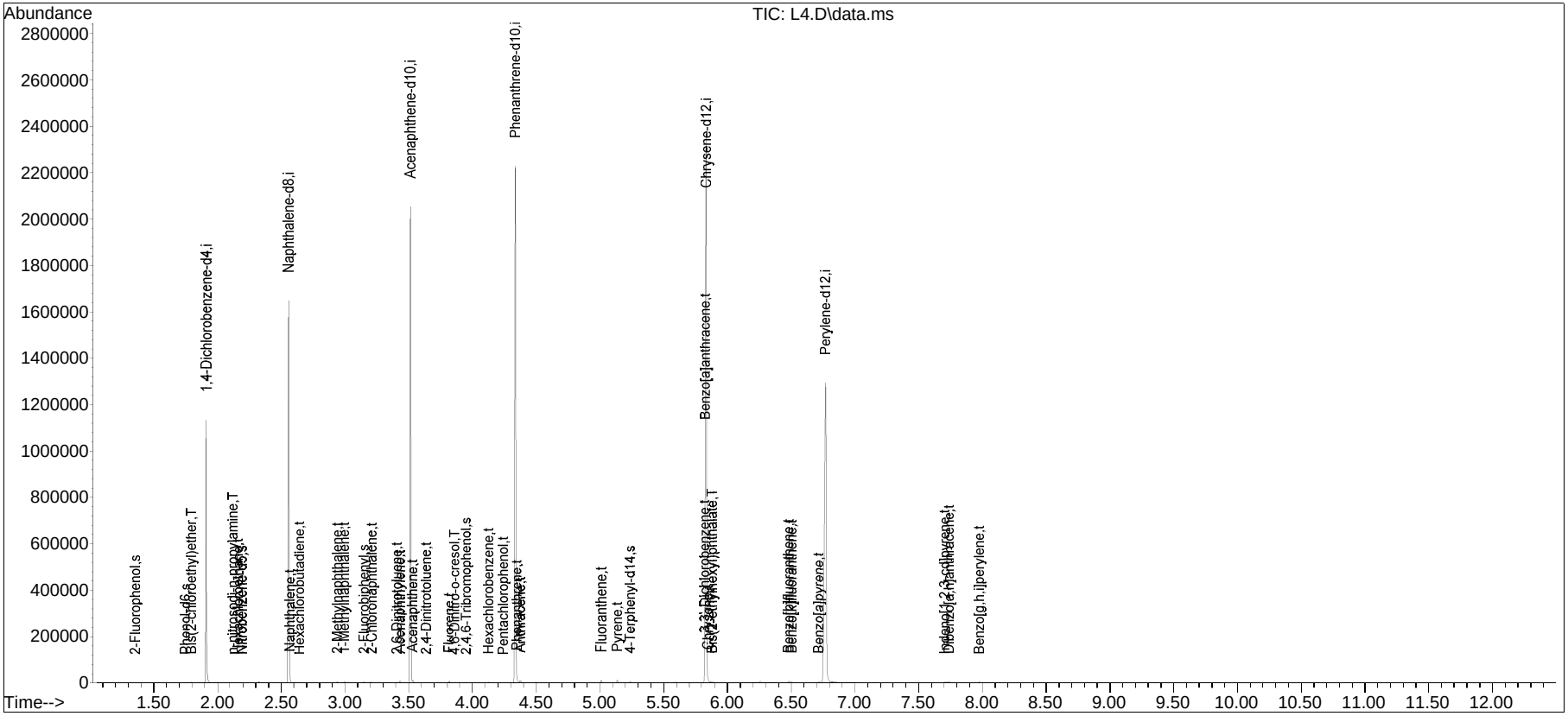
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L4.D
Acq On : 21 Jun 2024 04:28 pm
Operator : sv119:dv
Sample : IL4,32,, #10468 10 ng/ml
Misc : WG1939716,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 12:34:22 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:14 2024
Response via : Initial Calibration

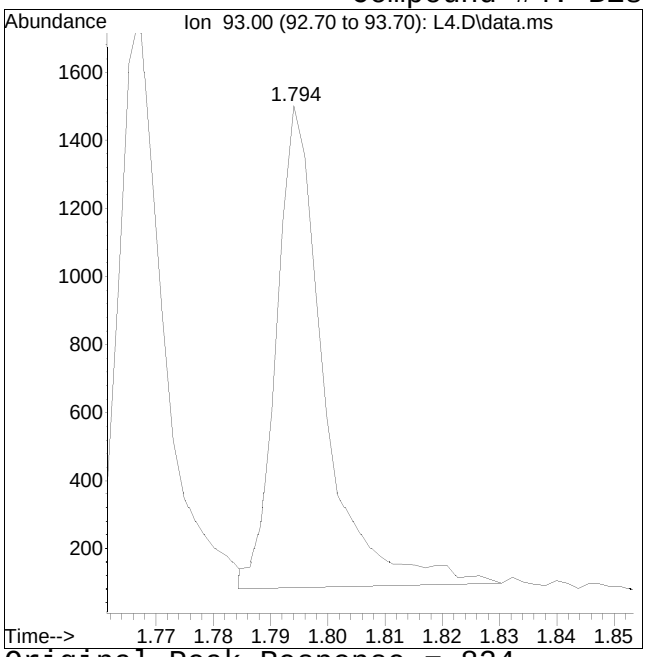
Sub List : Default - All compounds listedical\L8.D•



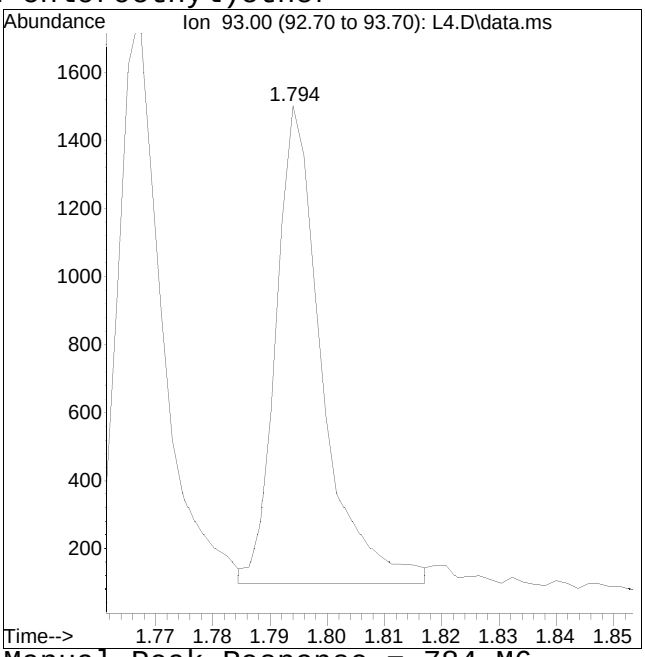
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L4.D
Date Inj'd : 6/21/2024 4:28 pm
Sample : IL4,32,, #10468 10 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 824



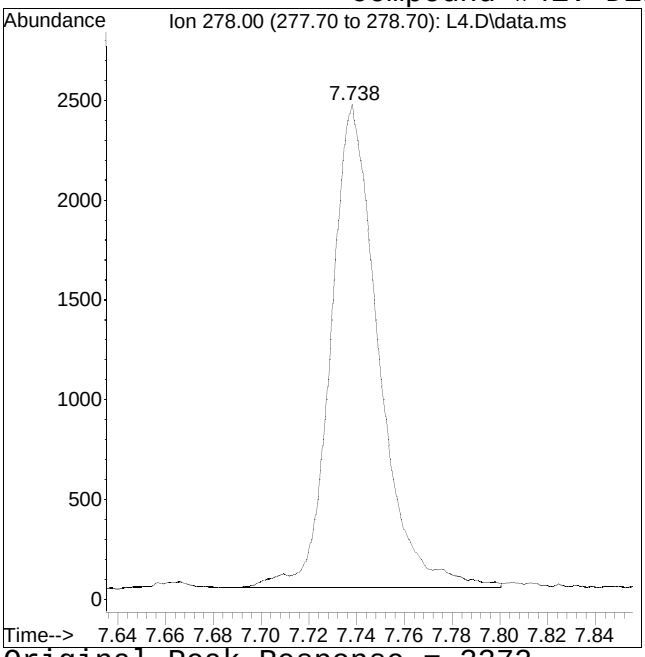
Manual Peak Response = 784 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

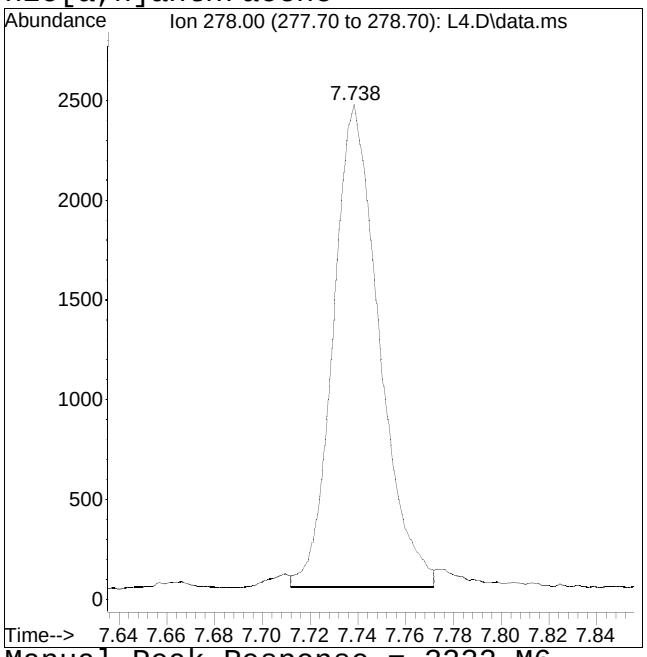
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L4.D Operator : sv119:dv
Date Inj'd : 6/21/2024 4:28 pm Instrument : SV119
Sample : IL4,32,, #10468 10 ng/ml Quant Date : 6/26/2024 12:35 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 3372



Manual Peak Response = 3222 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L3.D
Acq On : 21 Jun 2024 04:44 pm
Operator : sv119:dv
Sample : IL3,32,, #10469 5 ng/ml
Misc : WG1939716,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 12:39:28 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.913	152	209500	4000.000	ng/ml	0.00
Standard Area 1 = 186265			Recovery = 112.47%			
8) Naphthalene-d8	2.557	136	729885	4000.000	ng/ml	0.00
Standard Area 1 = 691724			Recovery = 105.52%			
17) Acenaphthene-d10	3.513	164	447694	4000.000	ng/ml	0.00
Standard Area 1 = 424015			Recovery = 105.58%			
22) Phenanthrene-d10	4.335	188	1050136	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery = 102.19%			
31) Chrysene-d12	5.835	240	1112822	4000.000	ng/ml	0.00
Standard Area 1 = 965951			Recovery = 115.20%			
36) Perylene-d12	6.769	264	994319	4000.000	ng/ml	-0.01
Standard Area 1 = 979854			Recovery = 101.48%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.352	112	377	5.101	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.26%#			
3) Phenol-d6	1.748	99	449	4.817	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.24%#			
7) Nitrobenzene-d5	2.194	82	369	4.513	ng/ml	0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.45%#			
13) 2-Fluorobiphenyl	3.151	172	966	5.119	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.51%#			
21) 2,4,6-Tribromophenol	3.954	330	140	4.479	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.22%#			
30) 4-Terphenyl-d14	5.238	244	1722	5.932	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.30%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.796	93	362M6	4.834	ng/ml	
5) n-nitrosodi-n-propylamine	2.124	70	276	4.808	ng/ml	97
6) Hexachloroethane	2.160	117	183	5.265	ng/ml	91
9) Naphthalene	2.568	128	1056	5.224	ng/ml#	90
10) Hexachlorobutadiene	2.642	225	242	5.350	ng/ml	95
11) 2-Methylnaphthalene	2.944	142	756	4.992	ng/ml	96
12) 1-Methylnaphthalene	2.997	142	782	5.342	ng/ml	95
14) 2-Chloronaphthalene	3.209	162	844	5.173	ng/ml	98
15) 2,6-Dinitrotoluene	3.410	165	195	4.438	ng/ml#	82
16) Acenaphthylene	3.434	152	1306	5.010	ng/ml	99
18) Acenaphthene	3.530	153	758	4.851	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L3.D
Acq On : 21 Jun 2024 04:44 pm
Operator : sv119:dv
Sample : IL3,32,, #10469 5 ng/ml
Misc : WG1939716,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 12:39:28 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:07 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.638	165	224	3.743	ng/ml	91
20) Fluorene	3.817	166	1056	5.127	ng/ml	98
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.129	284	371	5.145	ng/ml	99
25) Pentachlorophenol	4.242	266	136	7.392	ng/ml#	74
26) Phenanthrene	4.348	178	1497M6	4.904	ng/ml	
27) Anthracene	4.376	178	1527	4.841	ng/ml	97
28) Fluoranthene	5.011	202	2184	5.210	ng/ml	100
29) Pyrene	5.136	202	2343	5.394	ng/ml	99
32) Benzo[a]anthracene	5.832	228	5283	4.547	ng/ml#	78
33) 3,3'-Dichlorobenzene	5.827	252	688	4.048	ng/ml#	1
34) Chrysene	5.848	228	1952M1	4.713	ng/ml	
35) Bis(2-ethylhexyl)phtha...	5.878	149	1208	17.310	ng/ml	99
37) Benzo[b]fluoranthene	6.481	252	1989	4.830	ng/ml	97
38) Benzo[k]fluoranthene	6.501	252	2168M4	5.698	ng/ml	
39) Benzo[a]pyrene	6.717	252	1780	4.880	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.709	276	1673	4.537	ng/ml	95
41) Dibenzo[a,h]anthracene	7.741	278	1564M6	4.762	ng/ml	
42) Benzo[g,h,i]perylene	7.975	276	1758	4.847	ng/ml	100

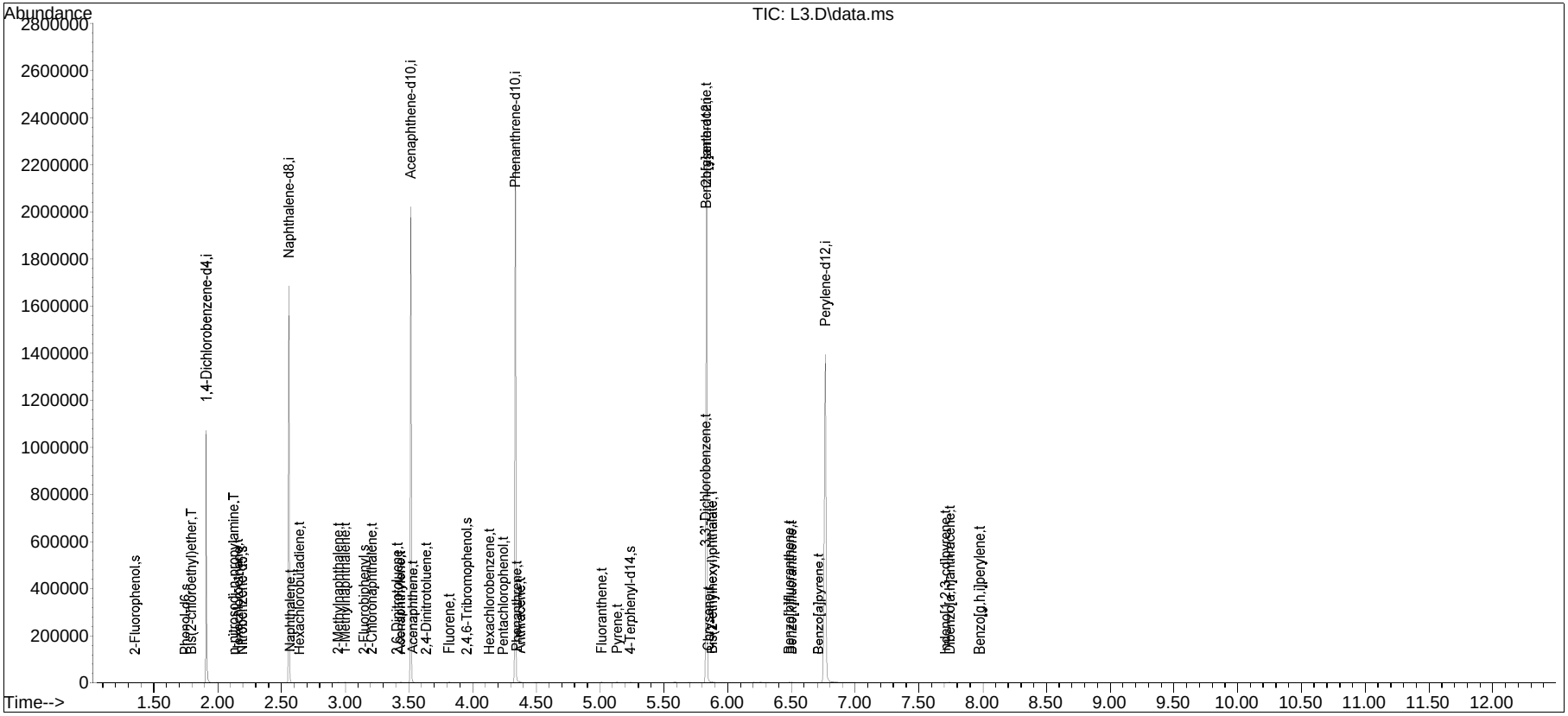
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L3.D
Acq On : 21 Jun 2024 04:44 pm
Operator : sv119:dv
Sample : IL3,32,, #10469 5 ng/ml
Misc : WG1939716,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 12:39:28 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:35:07 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

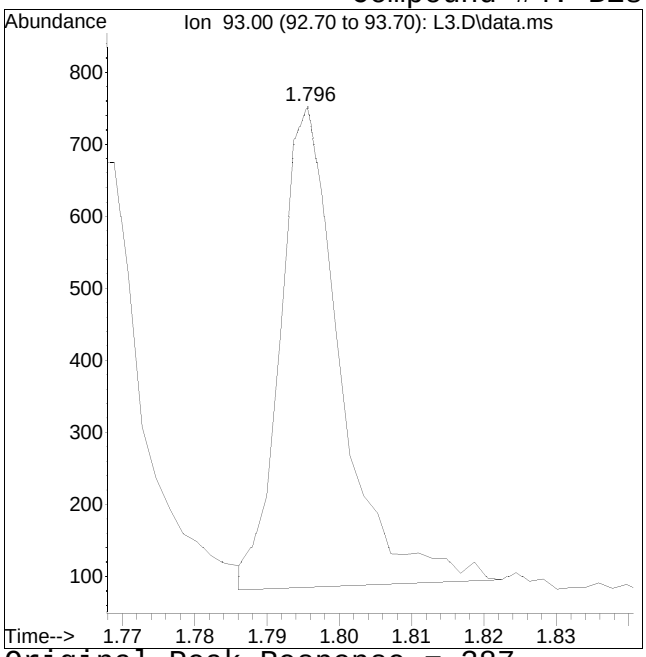


Manual Integration Report

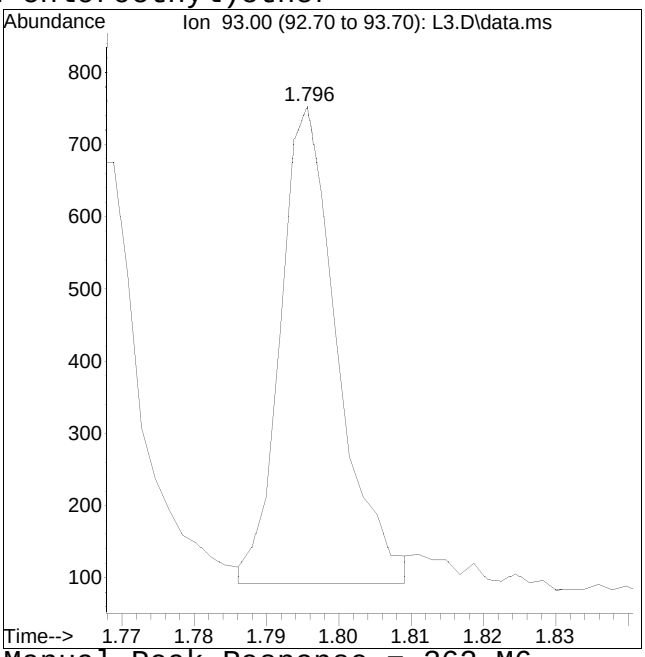
Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L3.D
Date Inj'd : 6/21/2024 4:44 pm
Sample : IL3,32,, #10469 5 ng/ml

Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 387



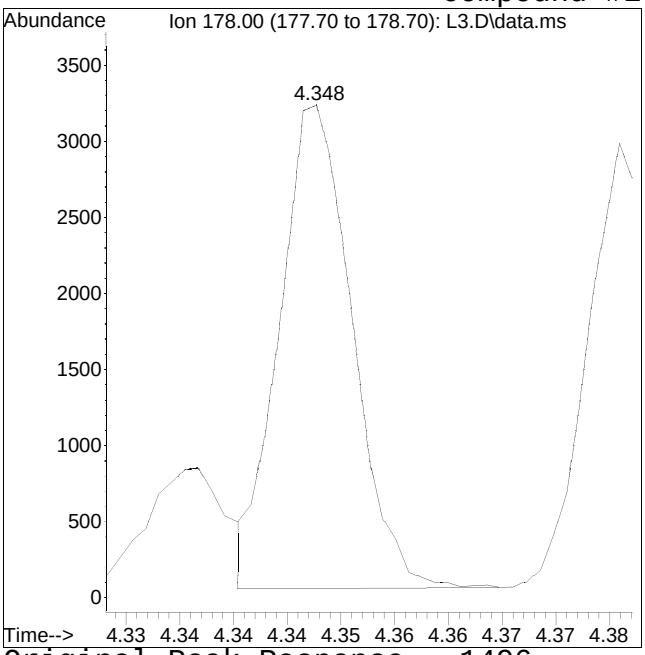
Manual Peak Response = 362 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

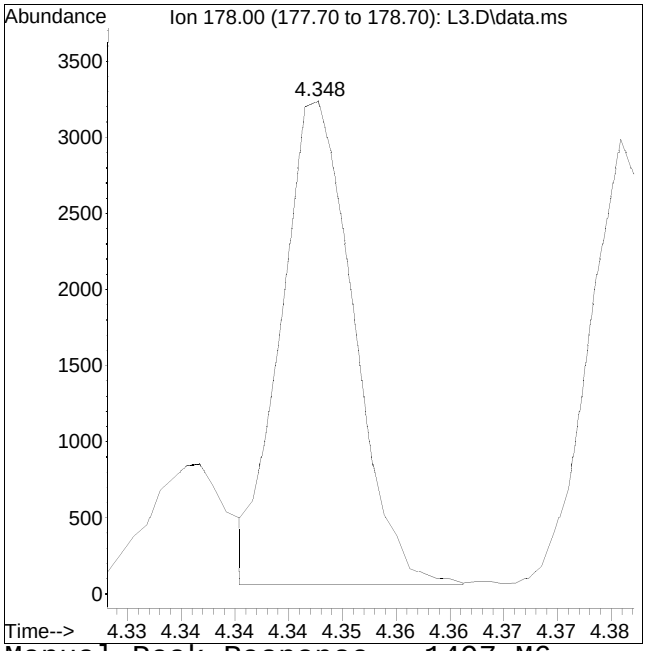
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L3.D
Date Inj'd : 6/21/2024 4:44 pm
Sample : IL3,32,, #10469 5 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #26: Phenanthrene



Original Peak Response = 1496



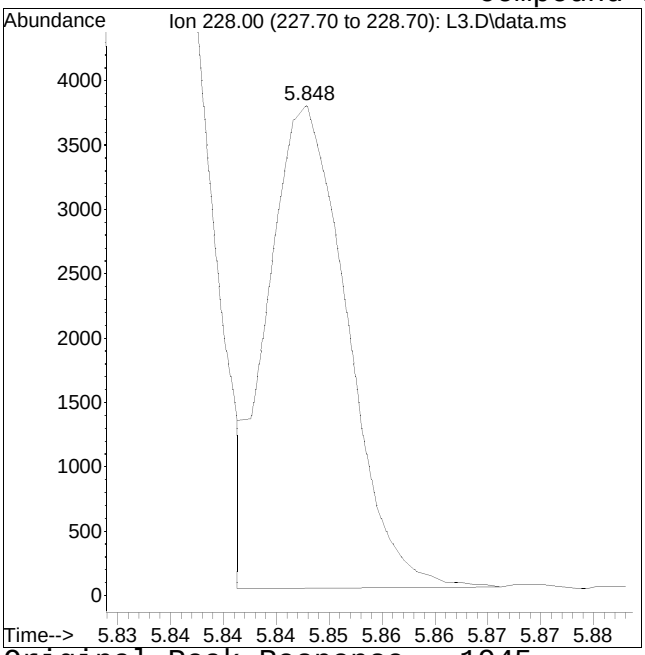
Manual Peak Response = 1497 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

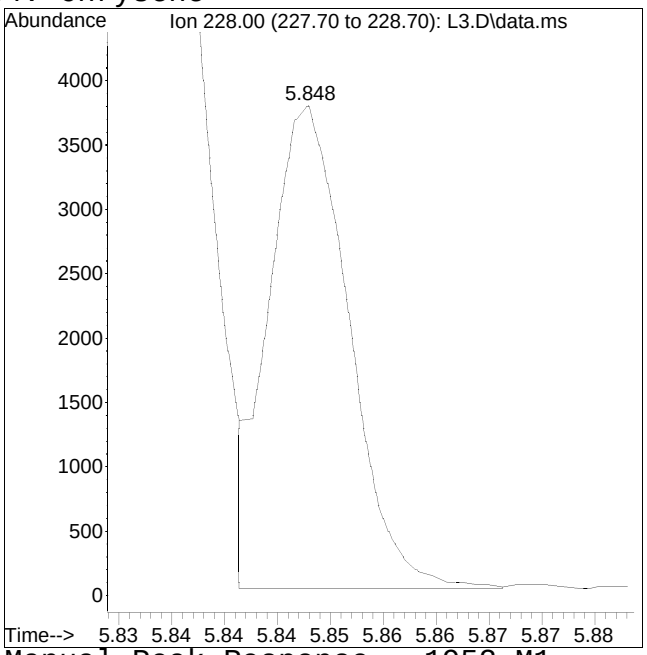
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L3.D
Date Inj'd : 6/21/2024 4:44 pm
Sample : IL3,32,, #10469 5 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #34: Chrysene



Original Peak Response = 1945



Manual Peak Response = 1952 M1

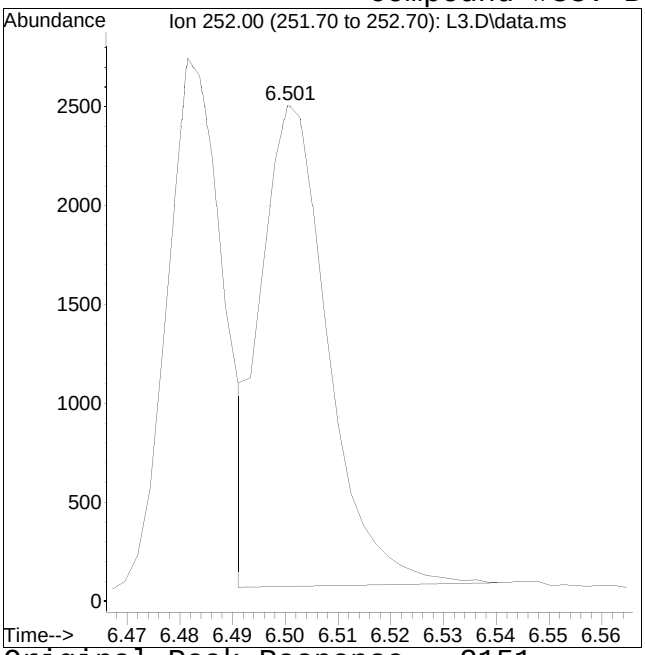
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

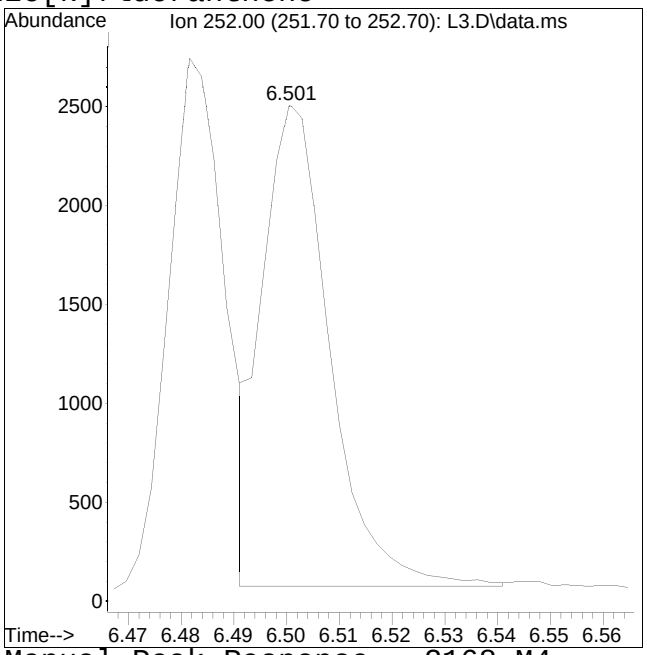
Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L3.D
Date Inj'd : 6/21/2024 4:44 pm
Sample : IL3,32,, #10469 5 ng/ml

Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:35 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 2151



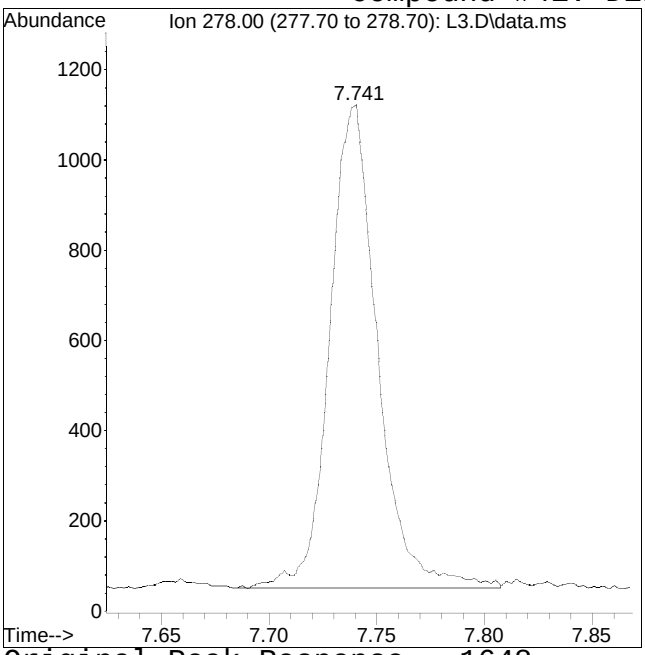
Manual Peak Response = 2168 M4

M4 = Poor automated baseline construction.

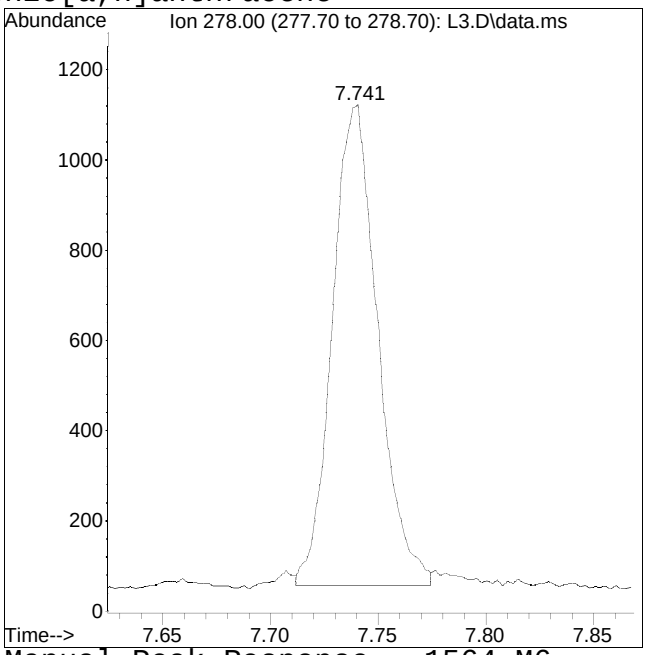
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L3.D Operator : sv119:dv
Date Inj'd : 6/21/2024 4:44 pm Instrument : SV119
Sample : IL3,32,, #10469 5 ng/ml Quant Date : 6/26/2024 12:35 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1648



Manual Peak Response = 1564 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L2.D
Acq On : 21 Jun 2024 05:01 pm
Operator : sv119:dv
Sample : IL2,32,, #10758 2 ng/ml
Misc : WG1939716,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 17 18:50:54 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:41:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.915	152	202808	4000.000	ng/ml	0.01
Standard Area 1 = 186265			Recovery = 108.88%			
8) Naphthalene-d8	2.557	136	710799	4000.000	ng/ml	0.00
Standard Area 1 = 691724			Recovery = 102.76%			
17) Acenaphthene-d10	3.513	164	436373	4000.000	ng/ml	0.00
Standard Area 1 = 424015			Recovery = 102.91%			
22) Phenanthrene-d10	4.334	188	1034805	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery = 100.70%			
31) Chrysene-d12	5.835	240	1089887	4000.000	ng/ml	0.00
Standard Area 1 = 965951			Recovery = 112.83%			
36) Perylene-d12	6.769	264	975901	4000.000	ng/ml	-0.01
Standard Area 1 = 979854			Recovery = 99.60%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.353	112	152	2.125	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.11%#			
3) Phenol-d6	1.750	99	183	2.028	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
7) Nitrobenzene-d5	2.195	82	175	2.211	ng/ml	0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.22%#			
13) 2-Fluorobiphenyl	3.151	172	406	2.209	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.22%#			
21) 2,4,6-Tribromophenol	3.953	330	61M1	2.002	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.10%#			
30) 4-Terphenyl-d14	5.237	244	776	2.713	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.14%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.796	93	156M4	2.152	ng/ml	
5) n-nitrosodi-n-propylamine	2.124	70	112M6	2.029	ng/ml	
6) Hexachloroethane	2.161	117	80	2.378	ng/ml	94
9) Naphthalene	2.568	128	448	2.283	ng/ml	98
10) Hexachlorobutadiene	2.642	225	104	2.361	ng/ml	89
11) 2-Methylnaphthalene	2.944	142	294	1.993	ng/ml	98
12) 1-Methylnaphthalene	2.998	142	313	2.196	ng/ml	96
14) 2-Chloronaphthalene	3.209	162	336	2.115	ng/ml	99
15) 2,6-Dinitrotoluene	0.000		0	N.D. d		
16) Acenaphthylene	3.434	152	540	2.127	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L2.D
Acq On : 21 Jun 2024 05:01 pm
Operator : sv119:dv
Sample : IL2,32,, #10758 2 ng/ml
Misc : WG1939716,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 17 18:50:54 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:41:12 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.530	153	334	2.193	ng/ml	93
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	3.819	166	454	2.261	ng/ml	92
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.127	284	168	2.364	ng/ml	99
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.346	178	700	2.327	ng/ml	99
27) Anthracene	4.376	178	689	2.217	ng/ml	100
28) Fluoranthene	5.011	202	1047	2.535	ng/ml	99
29) Pyrene	5.134	202	1088	2.542	ng/ml	100
32) Benzo[a]anthracene	5.833	228	4126	1.985	ng/ml#	74
33) 3,3'-Dichlorobenzene	5.826	252	303	1.820	ng/ml#	1
34) Chrysene	5.847	228	869	2.142	ng/ml	97
35) Bis(2-ethylhexyl)phtha...	5.877	149	585	15.306	ng/ml	97
37) Benzo[b]fluoranthene	6.481	252	927	2.293	ng/ml	98
38) Benzo[k]fluoranthene	6.500	252	984M6	2.635	ng/ml	
39) Benzo[a]pyrene	6.717	252	803	2.243	ng/ml	98
40) Indeno[1,2,3-cd]pyrene	7.709	276	786	2.172	ng/ml#	83
41) Dibenzo[a,h]anthracene	7.738	278	709	2.199	ng/ml	100
42) Benzo[g,h,i]perylene	7.975	276	804	2.259	ng/ml	99

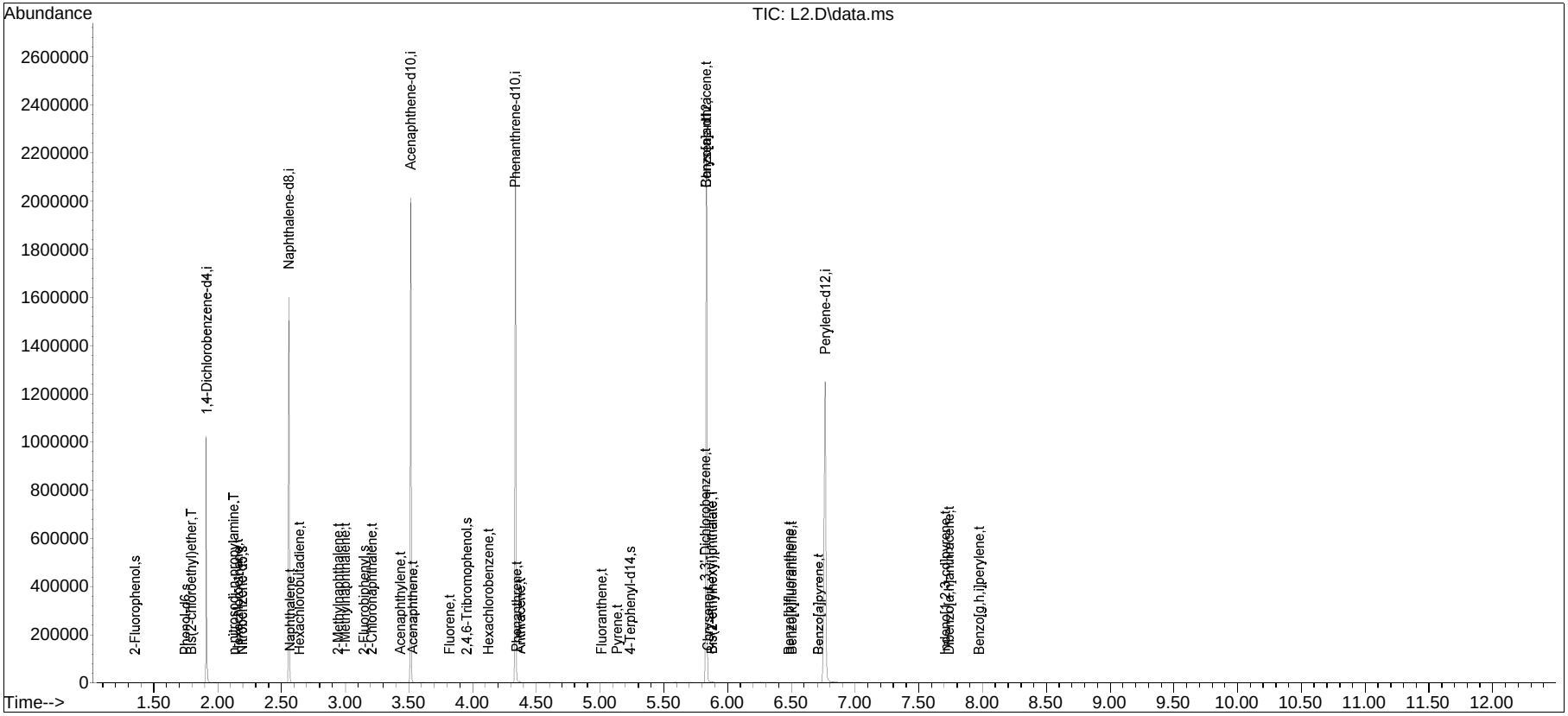
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L2.D
Acq On : 21 Jun 2024 05:01 pm
Operator : sv119:dv
Sample : IL2,32,, #10758 2 ng/ml
Misc : WG1939716,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 17 18:50:54 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:41:12 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

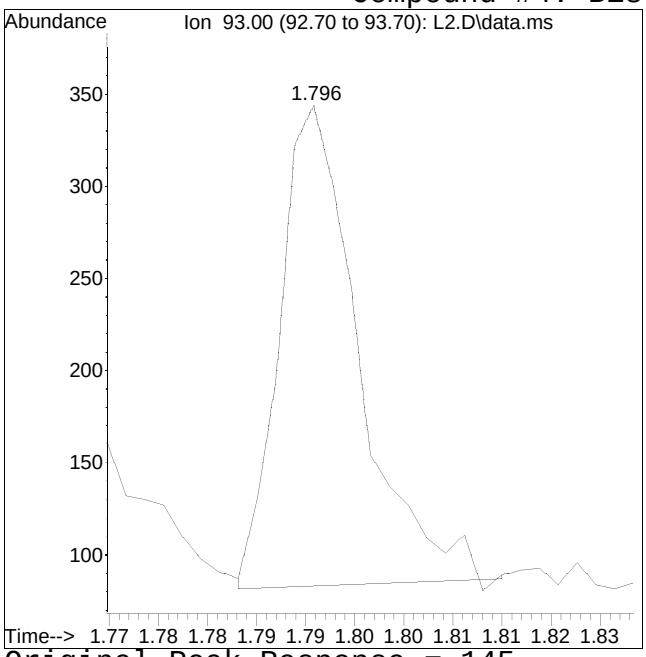


Manual Integration Report

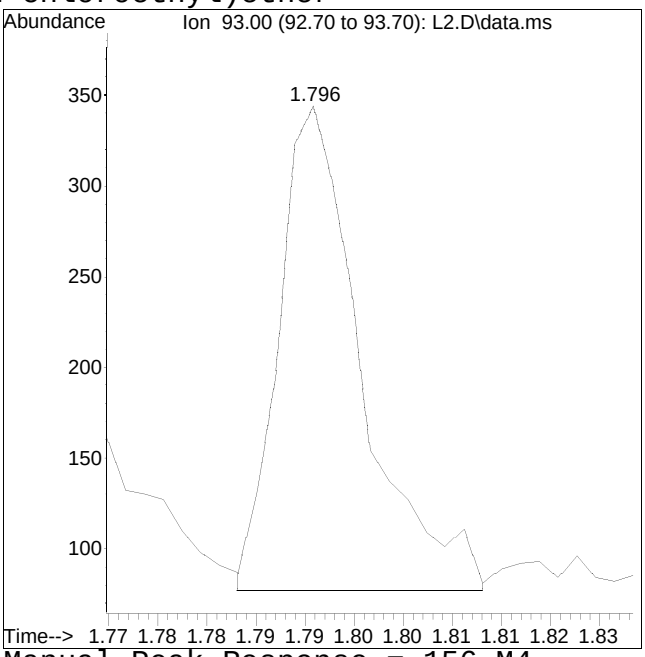
Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L2.D
Date Inj'd : 6/21/2024 5:01 pm
Sample : IL2,32,, #10758 2 ng/ml

Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 7/17/2024 6:52 pm

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 145



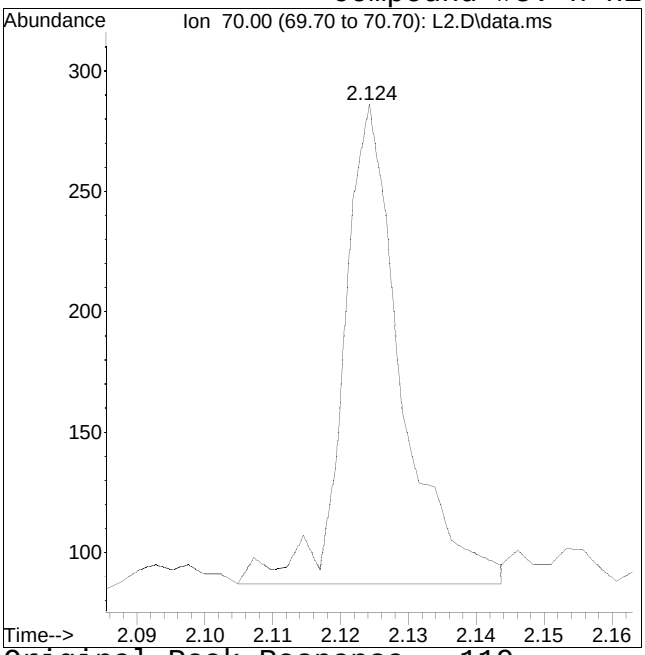
Manual Peak Response = 156 M4

M4 = Poor automated baseline construction.

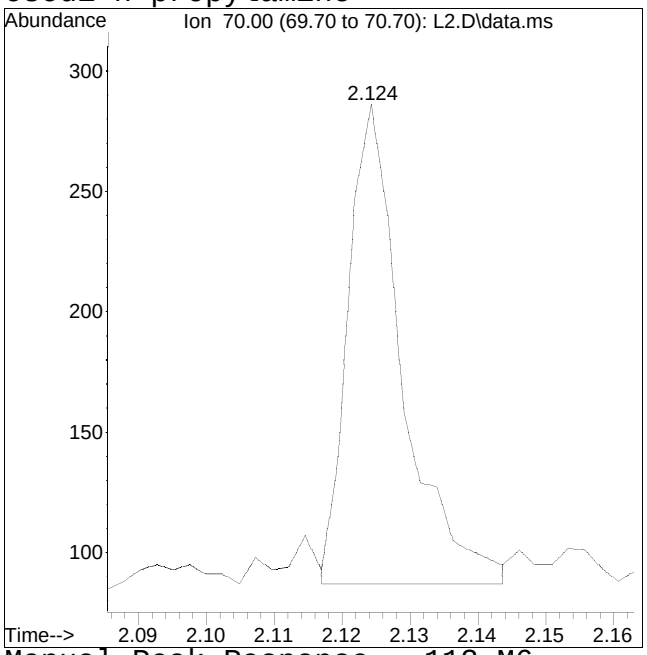
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L2.D
Date Inj'd : 6/21/2024 5:01 pm
Sample : IL2,32,, #10758 2 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 7/17/2024 6:52 pm

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 119



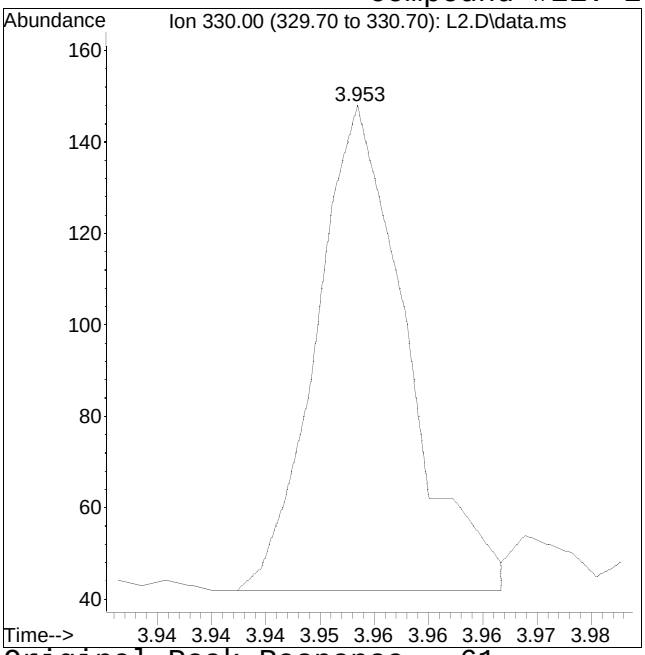
Manual Peak Response = 112 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

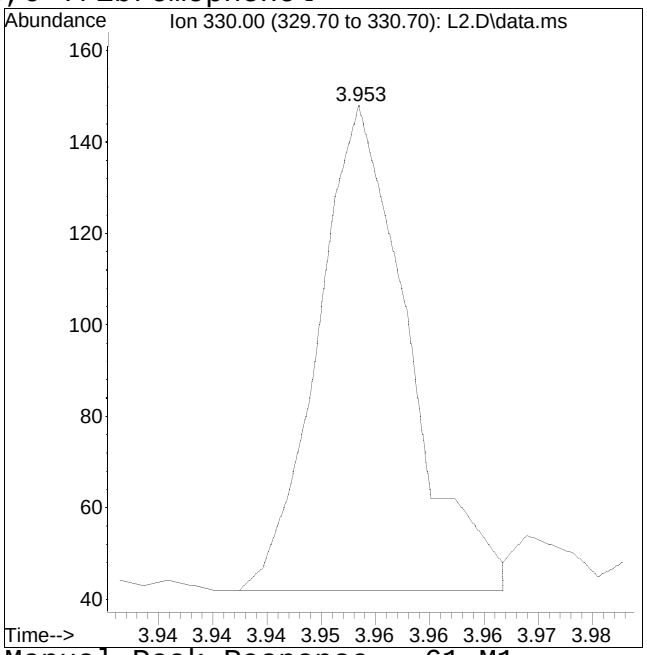
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L2.D
Date Inj'd : 6/21/2024 5:01 pm
Sample : IL2,32,, #10758 2 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 7/17/2024 6:52 pm

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 61



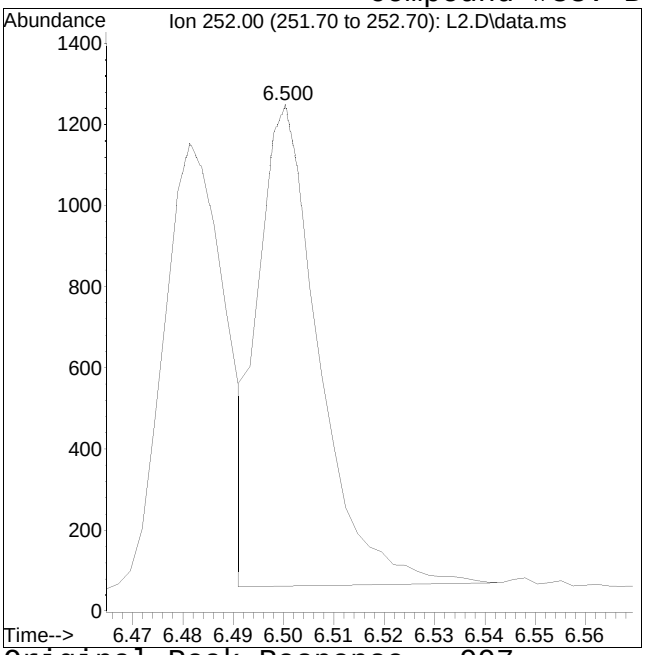
Manual Peak Response = 61 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

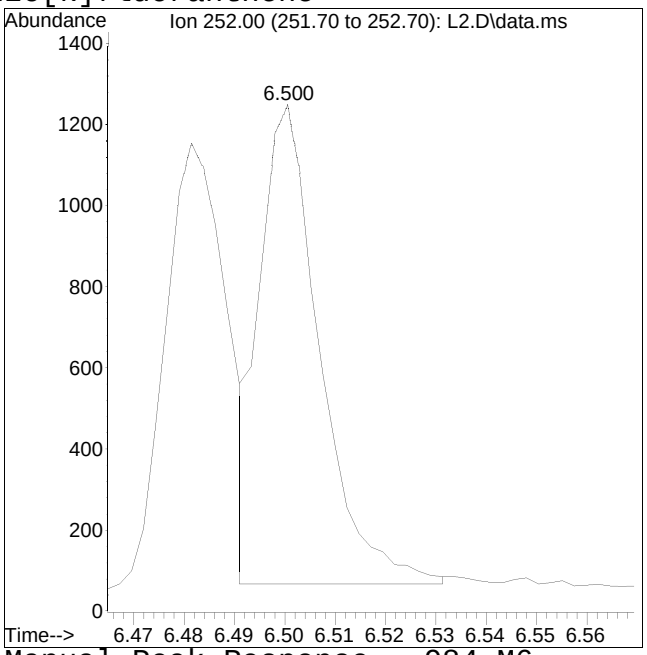
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L2.D
Date Inj'd : 6/21/2024 5:01 pm
Sample : IL2,32,, #10758 2 ng/ml
Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 7/17/2024 6:52 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 997



Manual Peak Response = 984 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L1.D
Acq On : 21 Jun 2024 05:17 pm
Operator : sv119:dv
Sample : IL1,32,, #10759 1 ng/ml
Misc : WG1939716,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 26 12:35:54 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:34:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.914	152	203550	4000.000	ng/ml	0.00
Standard Area 1 = 186265			Recovery	= 109.28%		
8) Naphthalene-d8	2.558	136	709280	4000.000	ng/ml	0.00
Standard Area 1 = 691724			Recovery	= 102.54%		
17) Acenaphthene-d10	3.513	164	430918	4000.000	ng/ml	0.00
Standard Area 1 = 424015			Recovery	= 101.63%		
22) Phenanthrene-d10	4.335	188	1016193	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery	= 98.89%		
31) Chrysene-d12	5.832	240	1075525	4000.000	ng/ml	0.00
Standard Area 1 = 965951			Recovery	= 111.34%		
36) Perylene-d12	6.764	264	970030	4000.000	ng/ml	-0.02
Standard Area 1 = 979854			Recovery	= 99.00%		
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.00%#		
3) Phenol-d6	0.000	99	0d	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.00%#		
7) Nitrobenzene-d5	0.000	82	0d	0.000	ng/ml	
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 0.00%#		
13) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng/ml	
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 0.00%#		
21) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.00%#		
30) 4-Terphenyl-d14	5.238	244	413	1.470	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 0.07%#		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
5) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
6) Hexachloroethane	0.000		0	N.D.	d	
9) Naphthalene	2.569	128	204M6	1.039	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	2.944	142	139	0.945	ng/ml	86
12) 1-Methylnaphthalene	2.998	142	151	1.062	ng/ml	99
14) 2-Chloronaphthalene	0.000		0	N.D.	d	
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.434	152	268	1.058	ng/ml	94
18) Acenaphthene	3.530	153	175	1.163	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L1.D
Acq On : 21 Jun 2024 05:17 pm
Operator : sv119:dv
Sample : IL1,32,, #10759 1 ng/ml
Misc : WG1939716,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 26 12:35:54 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:34:45 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	3.817	166	218	1.100	ng/ml	89
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	0.000		0	N.D. d		
25) Pentachlorophenol	0.000		0	N.D. d		
26) Phenanthrene	4.348	178	363	1.229	ng/ml	93
27) Anthracene	4.376	178	352	1.153	ng/ml#	89
28) Fluoranthene	5.011	202	544	1.341	ng/ml	97
29) Pyrene	5.134	202	575	1.368	ng/ml	98
32) Benzo[a]anthracene	5.831	228	3582	0.772	ng/ml#	70
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d		
34) Chrysene	5.844	228	460	1.149	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	5.875	149	341	14.504	ng/ml#	90
37) Benzo[b]fluoranthene	6.479	252	479	1.192	ng/ml	93
38) Benzo[k]fluoranthene	6.496	252	547M6	1.474	ng/ml	
39) Benzo[a]pyrene	6.712	252	428	1.203	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	7.707	276	445	1.237	ng/ml	100
41) Dibenzo[a,h]anthracene	7.733	278	377	1.177	ng/ml	93
42) Benzo[g,h,i]perylene	7.973	276	439	1.241	ng/ml	94

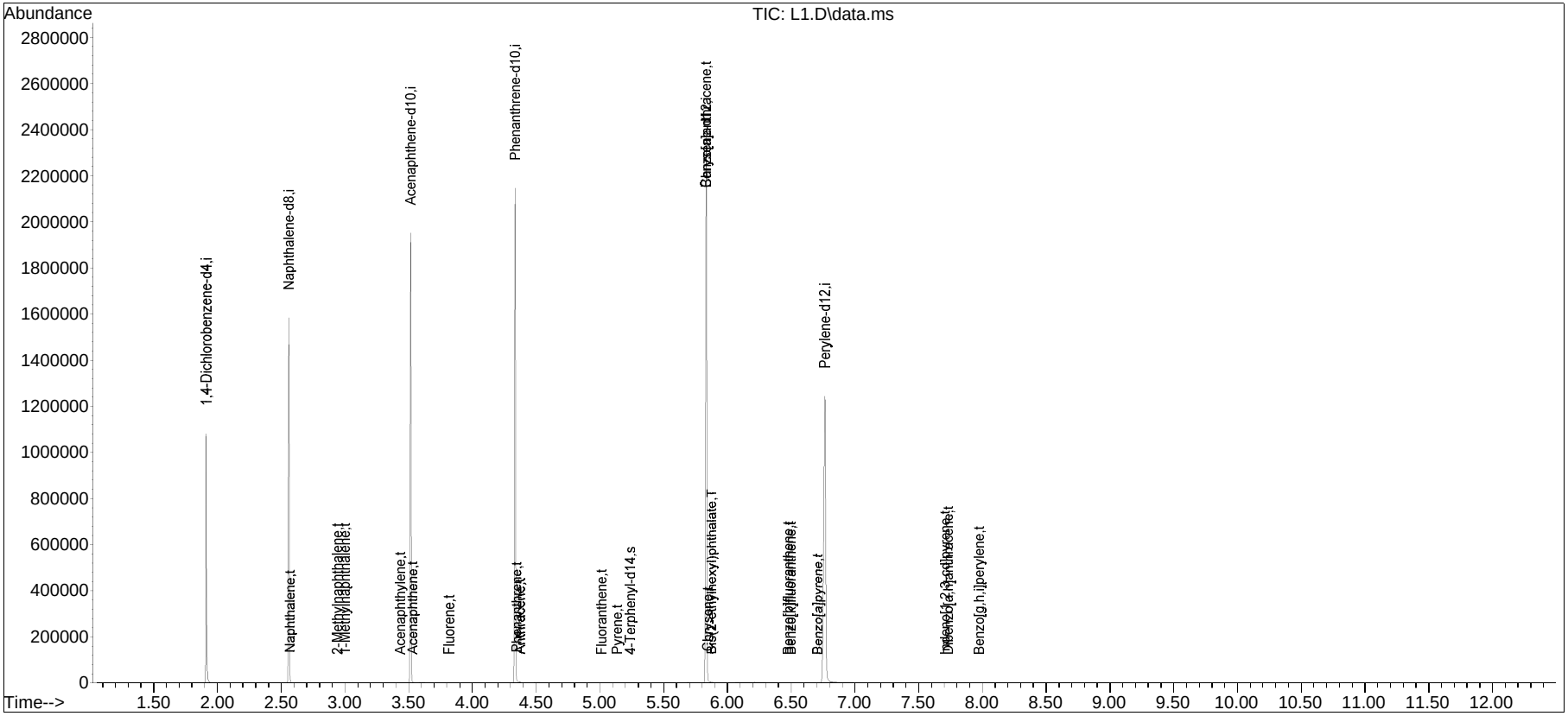
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : L1.D
Acq On : 21 Jun 2024 05:17 pm
Operator : sv119:dv
Sample : IL1,32,, #10759 1 ng/ml
Misc : WG1939716,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 26 12:35:54 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:34:45 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

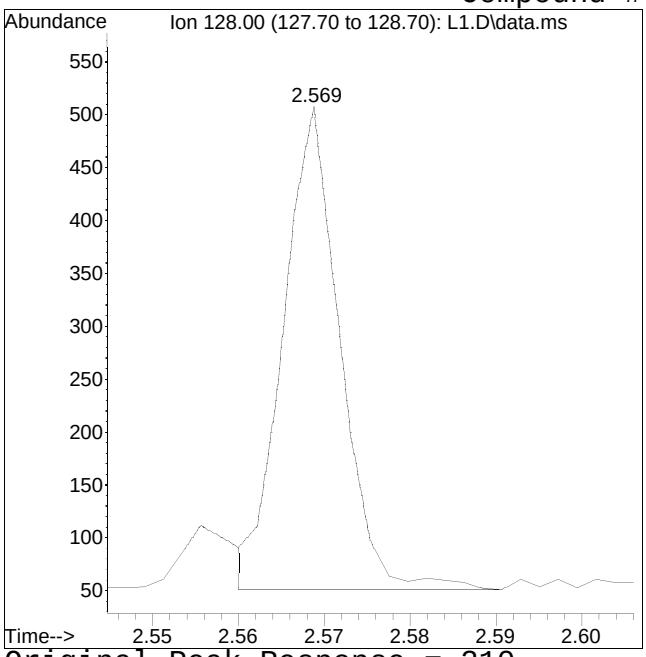


Manual Integration Report

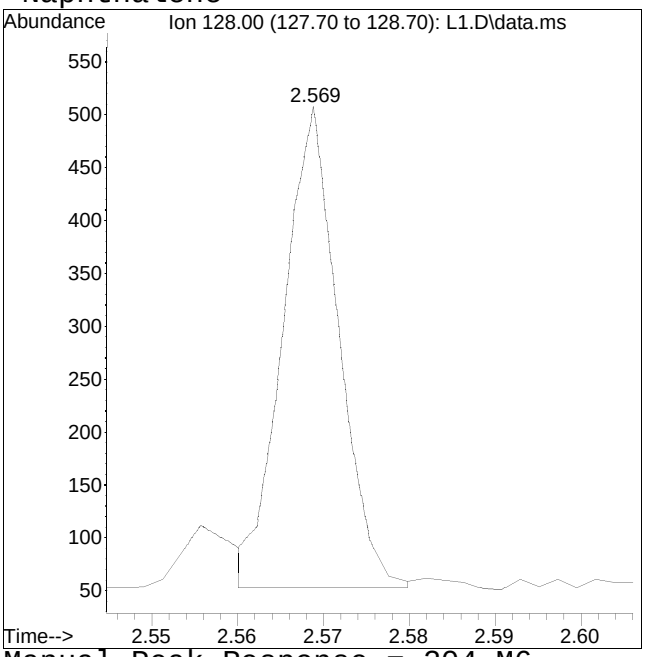
Data Path : I:\8270SIM\sv119\240621RVTQ
Data File : L1.D
Date Inj'd : 6/21/2024 5:17 pm
Sample : IL1,32,, #10759 1 ng/ml

Method : SIM-RVT_240621_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/26/2024 12:34 pm

Compound #9: Naphthalene



Original Peak Response = 210



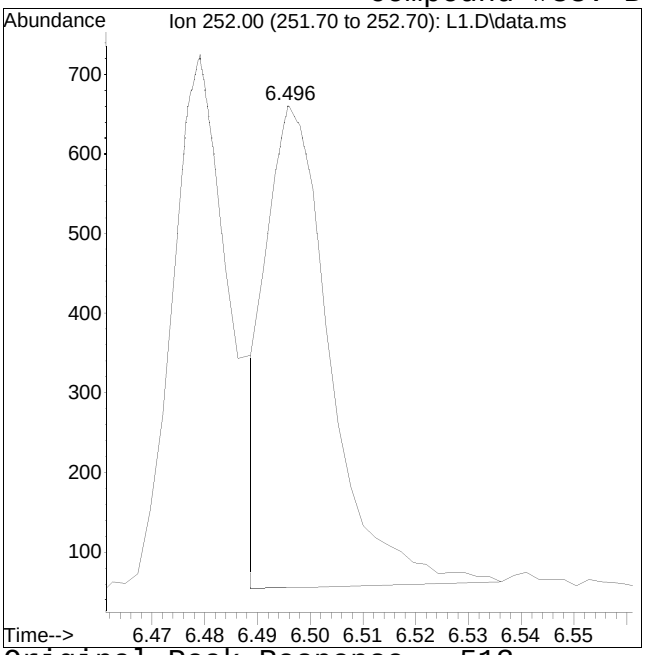
Manual Peak Response = 204 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

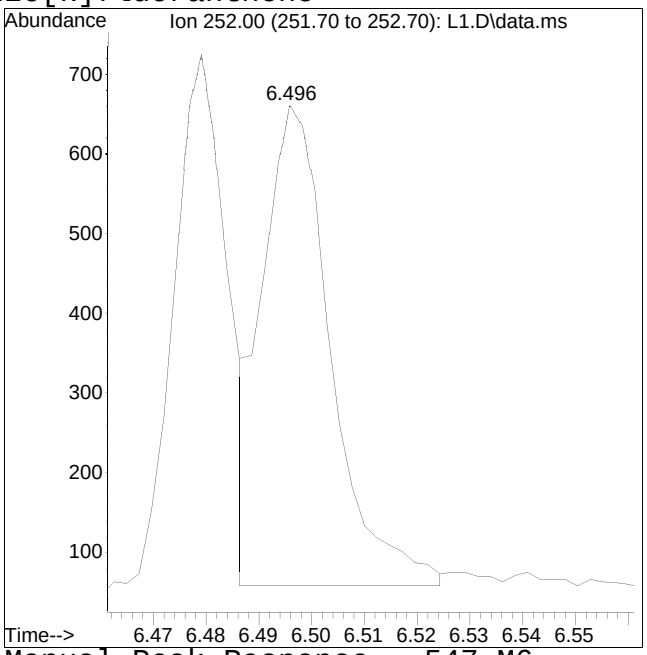
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : L1.D Operator : sv119:dv
Date Inj'd : 6/21/2024 5:17 pm Instrument : SV119
Sample : IL1,32,, #10759 1 ng/ml Quant Date : 6/26/2024 12:34 pm

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 513



Manual Peak Response = 547 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : ICV.D
Acq On : 21 Jun 2024 05:33 pm
Operator : sv119:dv
Sample : CQICV,32,, #10475 1000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 12:47:43 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:41:11 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.01
2	s	2-Fluorophenol	1.411	1.274	9.7	98	0.01
3	s	Phenol-d6	1.780	1.667	6.3	98	0.01
4	T	Bis(2-chloroethyl)ether	1.430	1.327	7.2	101	0.01
5	T	n-nitrosodi-n-propylamine	1.088	1.062	2.4	100	0.00
6	t	Hexachloroethane	0.664	0.603	9.2	101	0.00
7	s	Nitrobenzene-d5	1.561	1.498	4.0	100	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	108	0.00
9	t	Naphthalene	1.104	1.006	8.9	100	0.00
10	t	Hexachlorobutadiene	0.248	0.232	6.5	105	0.00
11	t	2-Methylnaphthalene	0.830	0.811	2.3	103	0.00
12	t	1-Methylnaphthalene	0.802	0.725	9.6	101	0.00
13	s	2-Fluorobiphenyl	1.034	0.925	10.5	102	0.00
14	t	2-Chloronaphthalene	0.894	0.822	8.1	101	0.00
15	t	2,6-Dinitrotoluene	0.241	0.237	1.7	99	0.00
16	t	Acenaphthylene	1.429	1.296	9.3	99	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	109	0.00
18	t	Acenaphthene	1.396	1.315	5.8	103	0.00
19	t	2,4-Dinitrotoluene	0.535	0.535	0.0	98	0.00
20	t	Fluorene	1.840	1.661	9.7	101	0.00
21	s	2,4,6-Tribromophenol	0.279	0.279	0.0	98	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	880.620	11.9	95	0.00
24	t	Hexachlorobenzene	0.275	0.245	10.9	101	0.00
25	t	Pentachlorophenol	*1000.000	953.975	4.6	98	0.00
26	t	Phenanthrene	1.163	1.032	11.3	99	0.00
27	t	Anthracene	1.201	1.124	6.4	100	0.00
28	t	Fluoranthene	1.597	1.383	13.4	99	0.00
29	t	Pyrene	1.655	1.405	15.1	99	0.00
30	s	4-Terphenyl-d14	1.106	0.952	13.9	100	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	108	0.00
32	t	Benzo[a]anthracene	*1000.000	951.603	4.8	96	0.00
33	t	3,3'-Dichlorobenzene	0.611	0.580	5.1	95	0.00
34	t	Chrysene	1.489	1.363	8.5	97	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	913.160	8.7	97	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : ICV.D
Acq On : 21 Jun 2024 05:33 pm
Operator : sv119:dv
Sample : CQICV,32,, #10475 1000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 12:47:43 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:41:11 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	106	-0.02
37	t	Benzo[b]fluoranthene	1.657	1.506	9.1	99	-0.01
38	t	Benzo[k]fluoranthene	1.531	1.293	15.5	98	-0.02
39	t	Benzo[a]pyrene	1.467	1.323	9.8	97	-0.02
40	t	Indeno[1,2,3-cd]pyrene	1.483	1.316	11.3	94	-0.02
41	t	Dibenzo[a,h]anthracene	1.321	1.137	13.9	93	-0.02
42	t	Benzo[g,h,i]perylene	1.459	1.242	14.9	94	-0.02

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : ICV.D
Acq On : 21 Jun 2024 05:33 pm
Operator : sv119:dv
Sample : CQICV,32,, #10475 1000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 12:47:43 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:41:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.915	152	202001	4000.000	ng/ml	0.01
Standard Area 1 = 186265			Recovery	= 108.45%		
8) Naphthalene-d8	2.557	136	747112	4000.000	ng/ml	0.00
Standard Area 1 = 691724			Recovery	= 108.01%		
17) Acenaphthene-d10	3.515	164	463193	4000.000	ng/ml	0.00
Standard Area 1 = 424015			Recovery	= 109.24%		
22) Phenanthrene-d10	4.337	188	1102241	4000.000	ng/ml	0.00
Standard Area 1 = 1027588			Recovery	= 107.26%		
31) Chrysene-d12	5.835	240	1041875	4000.000	ng/ml	0.00
Standard Area 1 = 965951			Recovery	= 107.86%		
36) Perylene-d12	6.764	264	1037753	4000.000	ng/ml	-0.02
Standard Area 1 = 979854			Recovery	= 105.91%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.349	112	64359	903.199	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 45.16%		
3) Phenol-d6	1.746	99	84165	936.493	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 46.82%		
7) Nitrobenzene-d5	2.190	82	75641	959.502	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 95.95%		
13) 2-Fluorobiphenyl	3.150	172	172844	894.880	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 89.49%		
21) 2,4,6-Tribromophenol	3.951	330	32251	997.217	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 49.86%		
30) 4-Terphenyl-d14	5.238	244	262424	861.230	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 43.06%		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.792	93	66997	927.880	ng/ml	99
5) n-nitrosodi-n-propylamine	2.117	70	53622	975.530	ng/ml	100
6) Hexachloroethane	2.161	117	30445	908.425	ng/ml	99
9) Naphthalene	2.568	128	187929	911.101	ng/ml	100
10) Hexachlorobutadiene	2.643	225	43320	935.654	ng/ml	100
11) 2-Methylnaphthalene	2.944	142	151466	977.108	ng/ml	100
12) 1-Methylnaphthalene	2.996	142	135334	903.201	ng/ml	100
14) 2-Chloronaphthalene	3.207	162	153464	918.886	ng/ml	100
15) 2,6-Dinitrotoluene	3.410	165	44232	983.548	ng/ml	100
16) Acenaphthylene	3.434	152	241981	906.891	ng/ml	100
18) Acenaphthene	3.532	153	152236	941.580	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : ICV.D
Acq On : 21 Jun 2024 05:33 pm
Operator : sv119:dv
Sample : CQICV,32,, #10475 1000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 12:47:43 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:41:11 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\240621RVTical\L8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.633	165	61973	1000.907	ng/ml	99
20) Fluorene	3.817	166	192295	902.360	ng/ml	100
23) 4,6-Dinitro-o-cresol	3.859	198	39842	880.620	ng/ml	99
24) Hexachlorobenzene	4.129	284	67436	891.030	ng/ml	100
25) Pentachlorophenol	4.241	266	44915	953.975	ng/ml	99
26) Phenanthrene	4.349	178	284491	887.815	ng/ml	100
27) Anthracene	4.376	178	309800	935.732	ng/ml	100
28) Fluoranthene	5.009	202	381208	866.385	ng/ml	100
29) Pyrene	5.134	202	387138	849.084	ng/ml	100
32) Benzo[a]anthracene	5.826	228	375288	951.603	ng/ml	100
33) 3,3'-Dichlorobenzene	5.822	252	151190	950.099	ng/ml	100
34) Chrysene	5.848	228	354927	915.312	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	5.875	149	256817	913.160	ng/ml	100
37) Benzo[b]fluoranthene	6.479	252	390762	909.142	ng/ml	100
38) Benzo[k]fluoranthene	6.496	252	335346	844.528	ng/ml	100
39) Benzo[a]pyrene	6.710	252	343357	901.971	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	7.702	276	341330	886.987	ng/ml	100
41) Dibenzo[a,h]anthracene	7.731	278	295075M6	860.795	ng/ml	
42) Benzo[g,h,i]perylene	7.971	276	322203	851.232	ng/ml	99

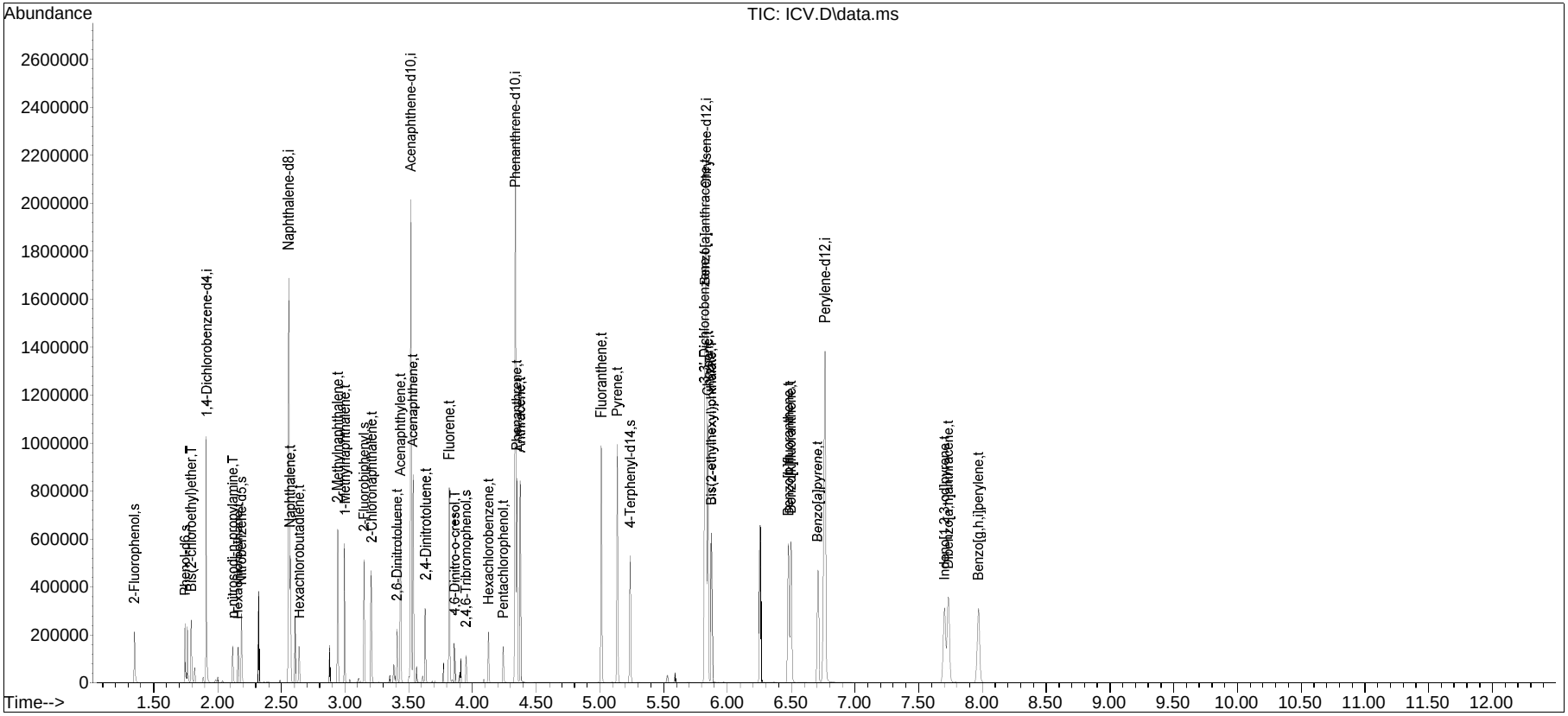
(#) = qualifier out of range (m) = manual integration (+) = signals summed

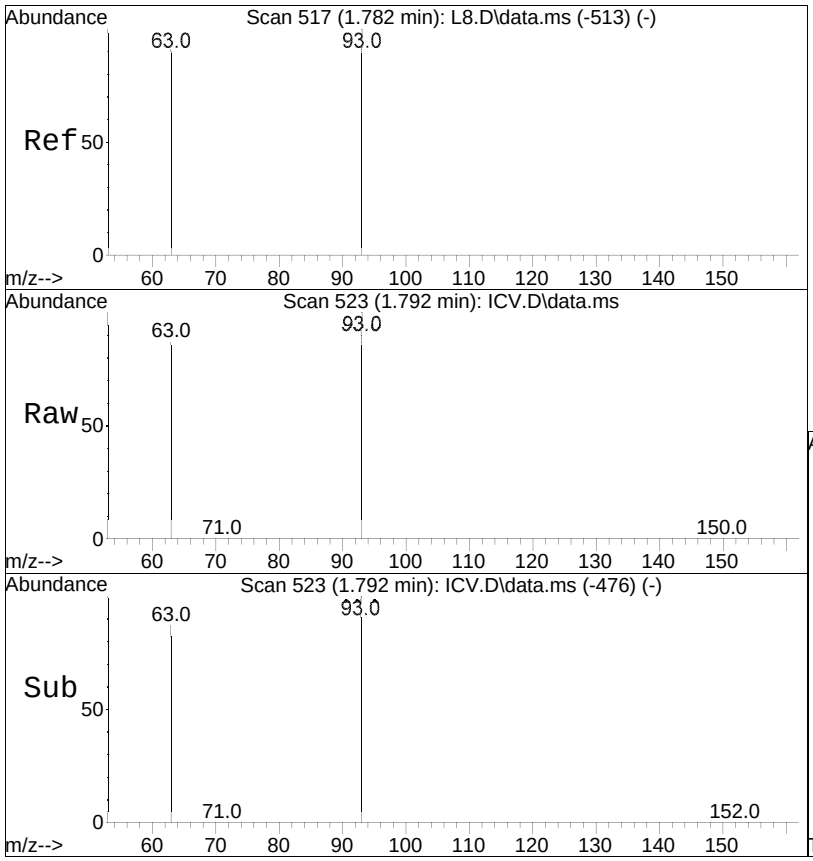
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240621RVTical\
Data File : ICV.D
Acq On : 21 Jun 2024 05:33 pm
Operator : sv119:dv
Sample : CQICV,32,, #10475 1000 ng/ml
Misc : WG1939716,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 12:47:43 2024
Quant Method : I:\8270SIM\sv119\240621RVTical\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 26 12:41:11 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

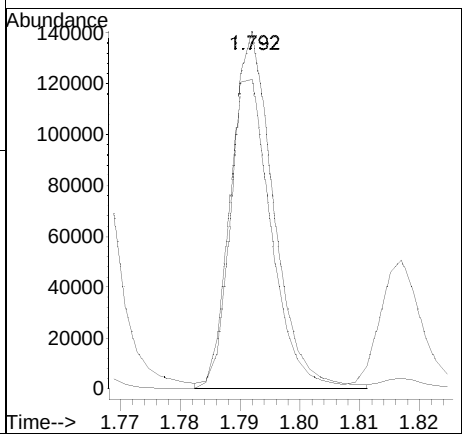


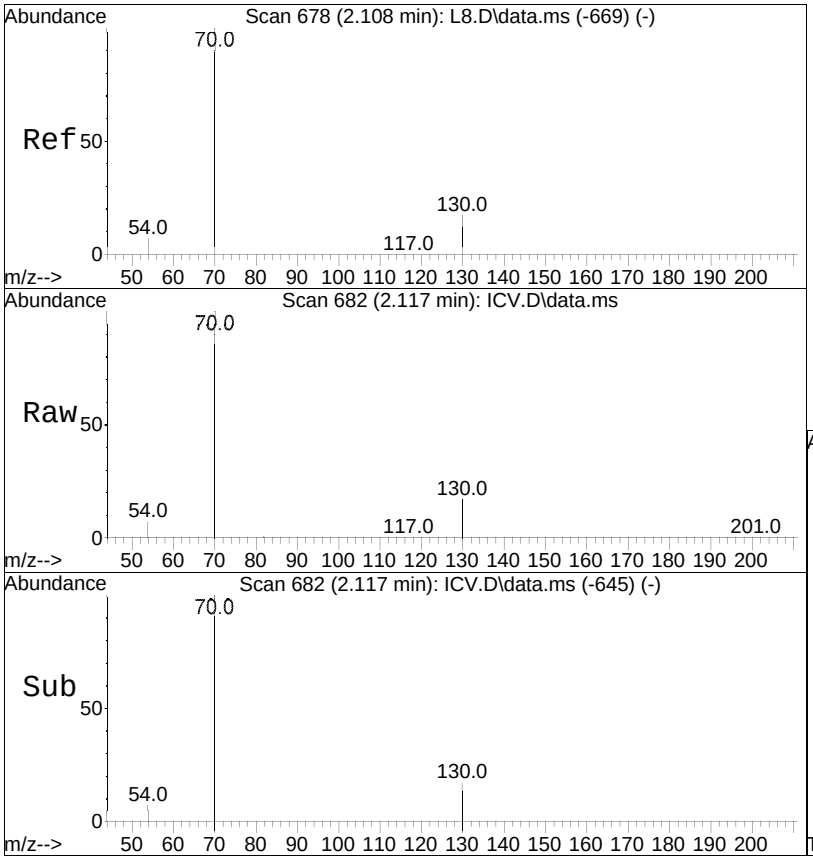


#4
Bis(2-chloroethyl)ether
Concen: 927.88 ng/ml
RT: 1.792 min Scan# 523
Delta R.T. 0.010 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion: 93 Resp: 66997

Ion	Ratio	Lower	Upper
93	100		
63	88.9	71.7	107.5

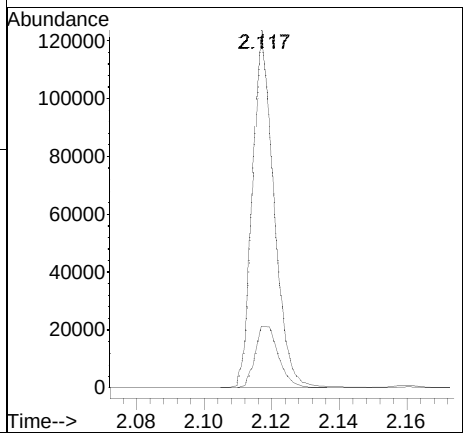


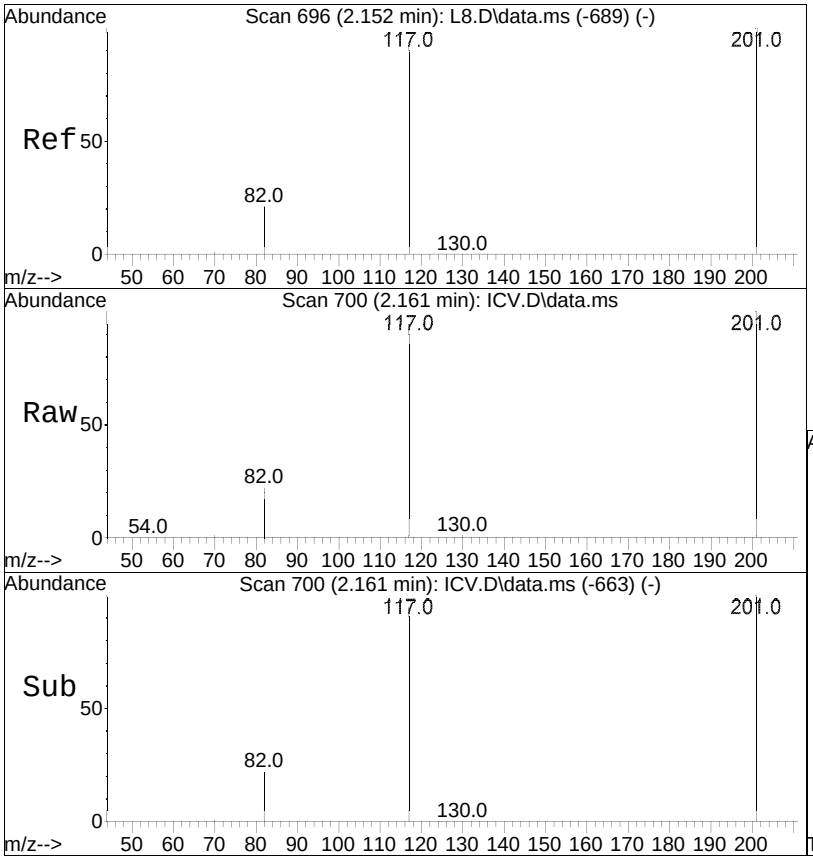


#5
n-nitrosodi-n-propylamine
Concen: 975.53 ng/ml
RT: 2.117 min Scan# 682
Delta R.T. 0.009 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion: 70 Resp: 53622

Ion	Ratio	Lower	Upper
70	100		
130	18.9	15.1	22.7

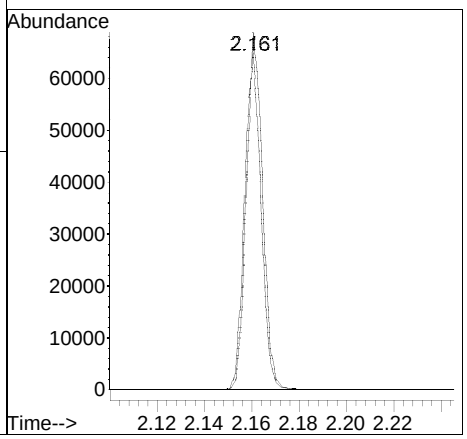


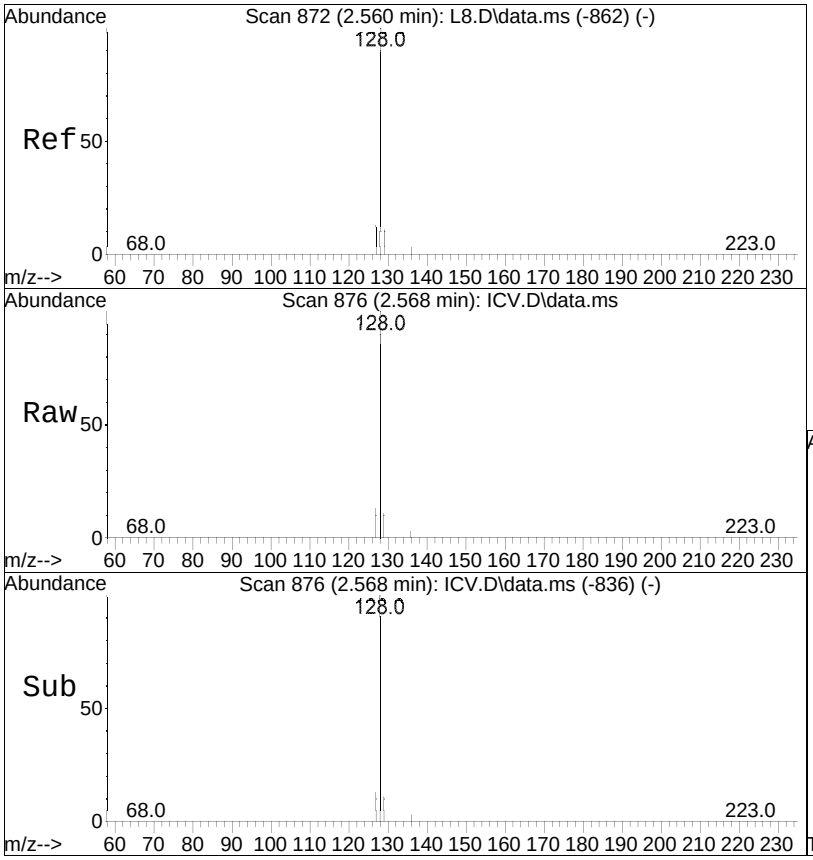


#6
Hexachloroethane
Concen: 908.42 ng/ml
RT: 2.161 min Scan# 700
Delta R.T. 0.009 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:117 Resp: 30445

Ion	Ratio	Lower	Upper
117	100		
201	105.1	83.0	124.6

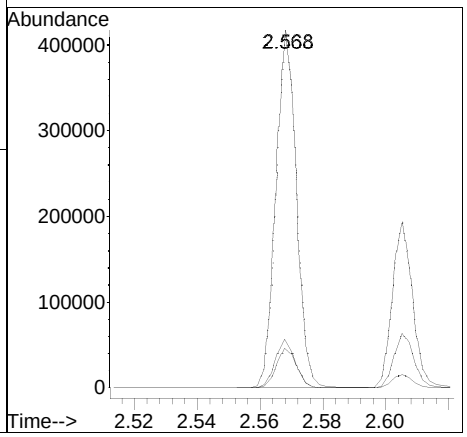


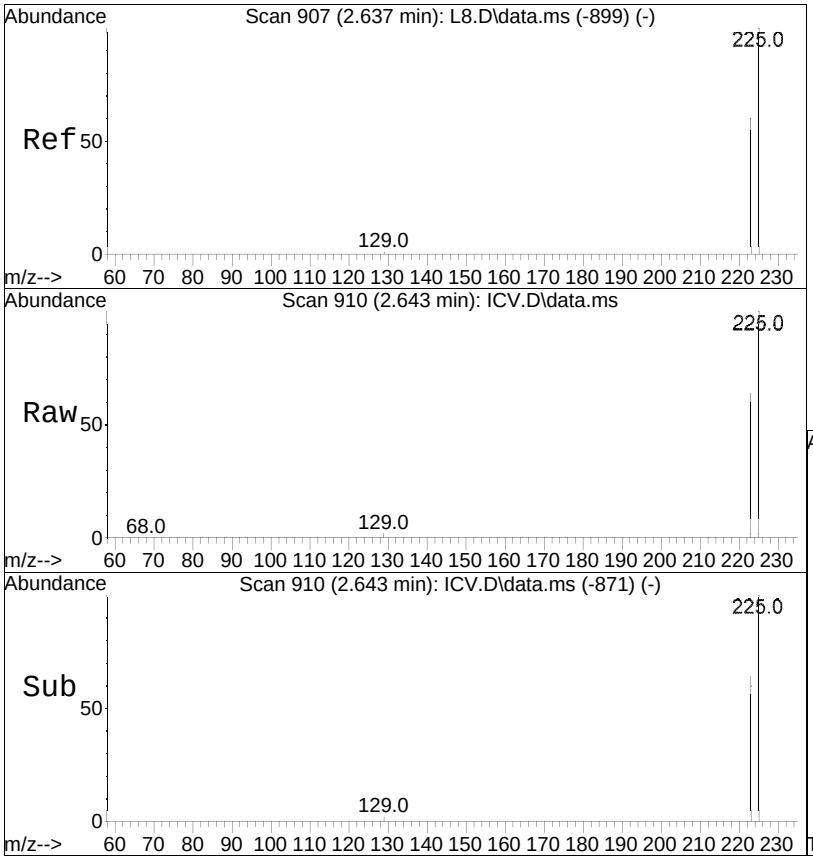


#9
Naphthalene
Concen: 911.10 ng/ml
RT: 2.568 min Scan# 876
Delta R.T. 0.008 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:128 Resp: 187929

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.3	10.6	15.8

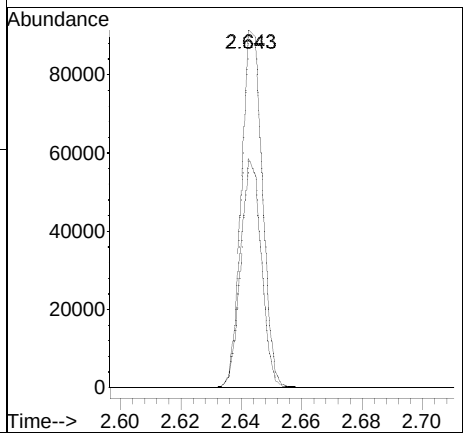


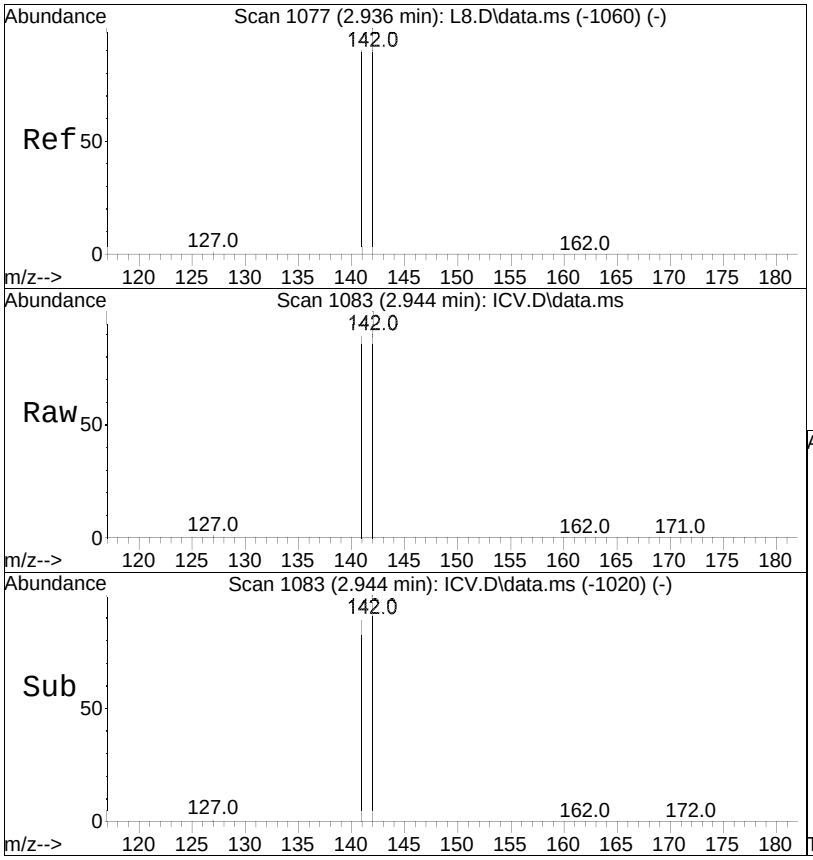


#10
Hexachlorobutadiene
Concen: 935.65 ng/ml
RT: 2.643 min Scan# 910
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:225 Resp: 43320

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.2

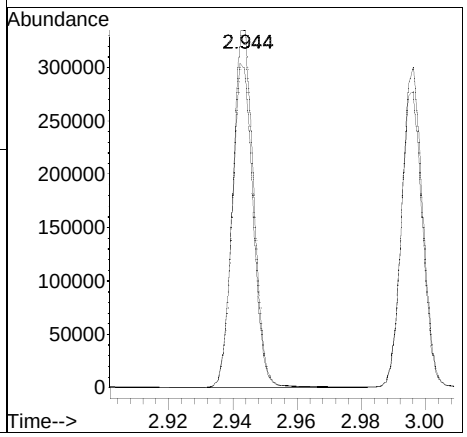


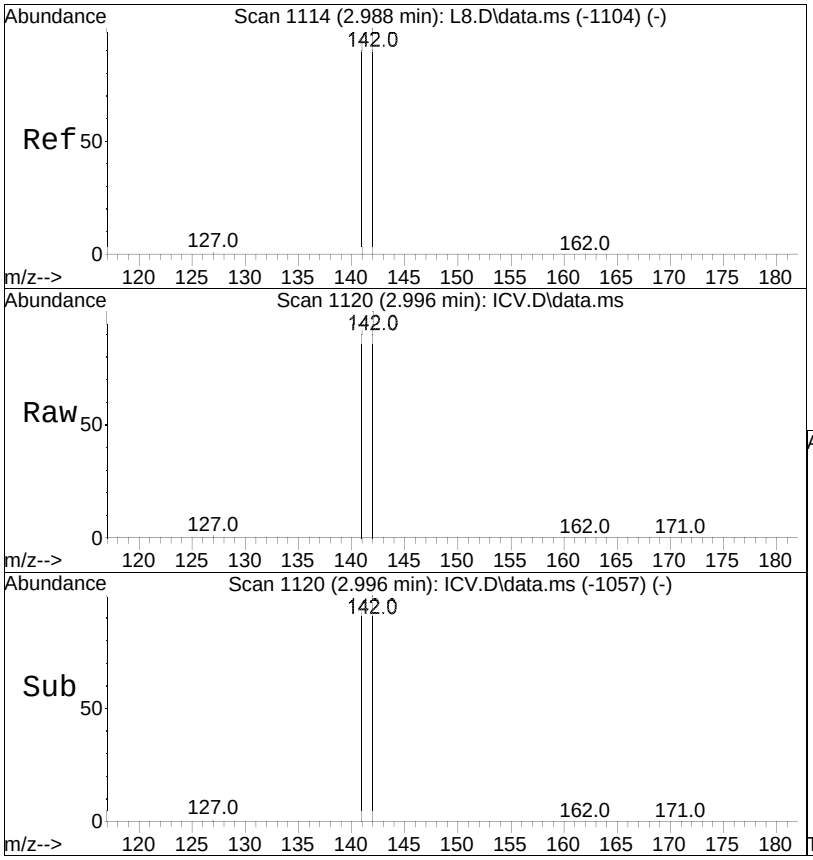


#11
2-Methylnaphthalene
Concen: 977.11 ng/ml
RT: 2.944 min Scan# 1083
Delta R.T. 0.008 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:142 Resp: 151466

Ion	Ratio	Lower	Upper
142	100		
141	90.6	72.3	108.5

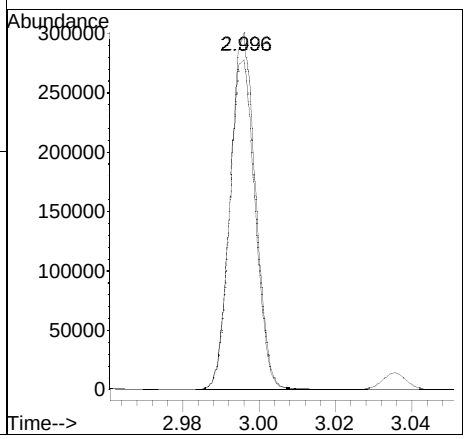


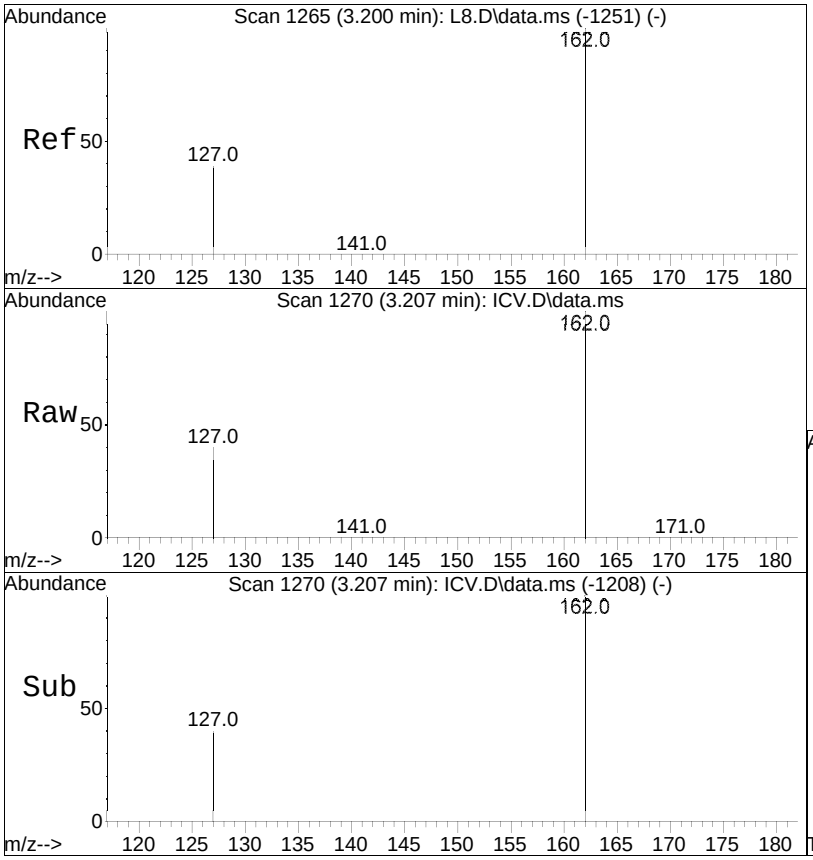


#12
1-Methylnaphthalene
Concen: 903.20 ng/ml
RT: 2.996 min Scan# 1120
Delta R.T. 0.008 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:142 Resp: 135334

Ion	Ratio	Lower	Upper
142	100		
141	93.9	74.9	112.3

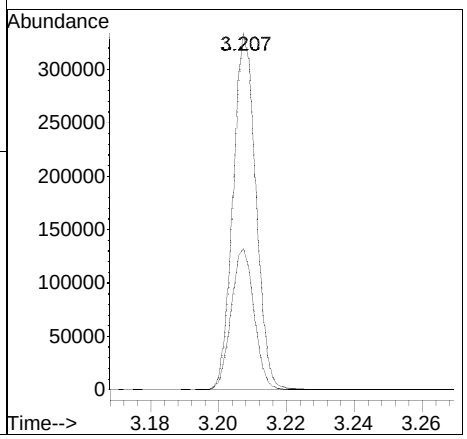


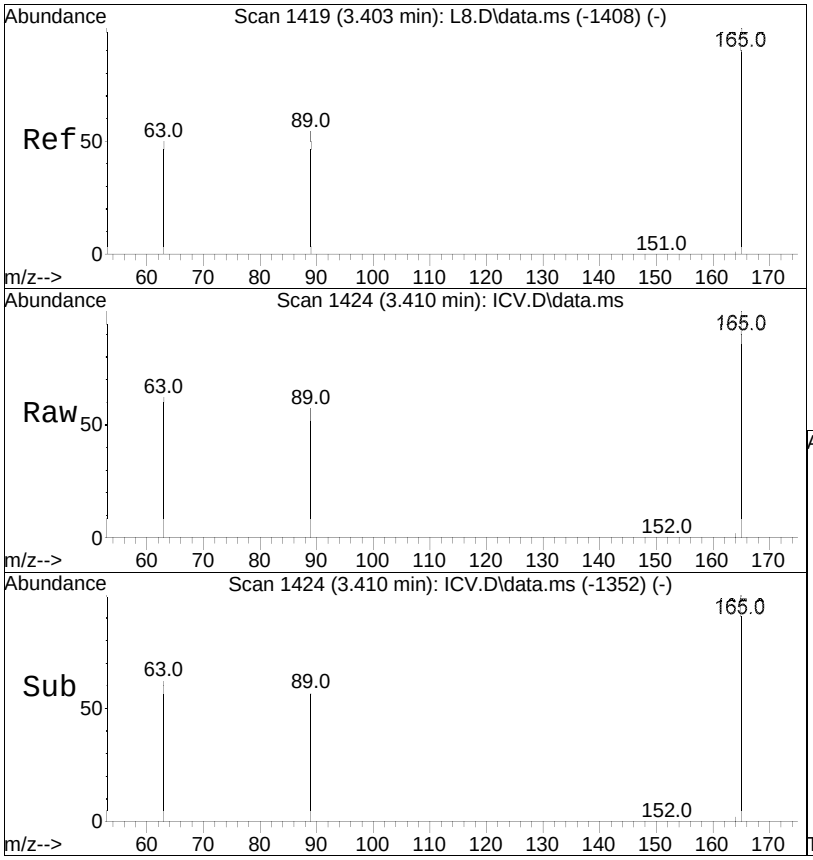


#14
2-Chloronaphthalene
Concen: 918.89 ng/ml
RT: 3.207 min Scan# 1270
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:162 Resp: 153464

Ion	Ratio	Lower	Upper
162	100		
127	40.0	32.0	48.0

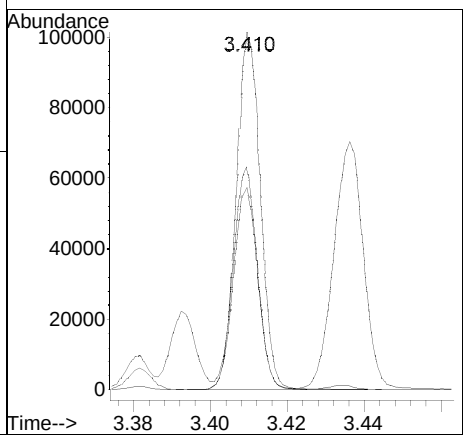


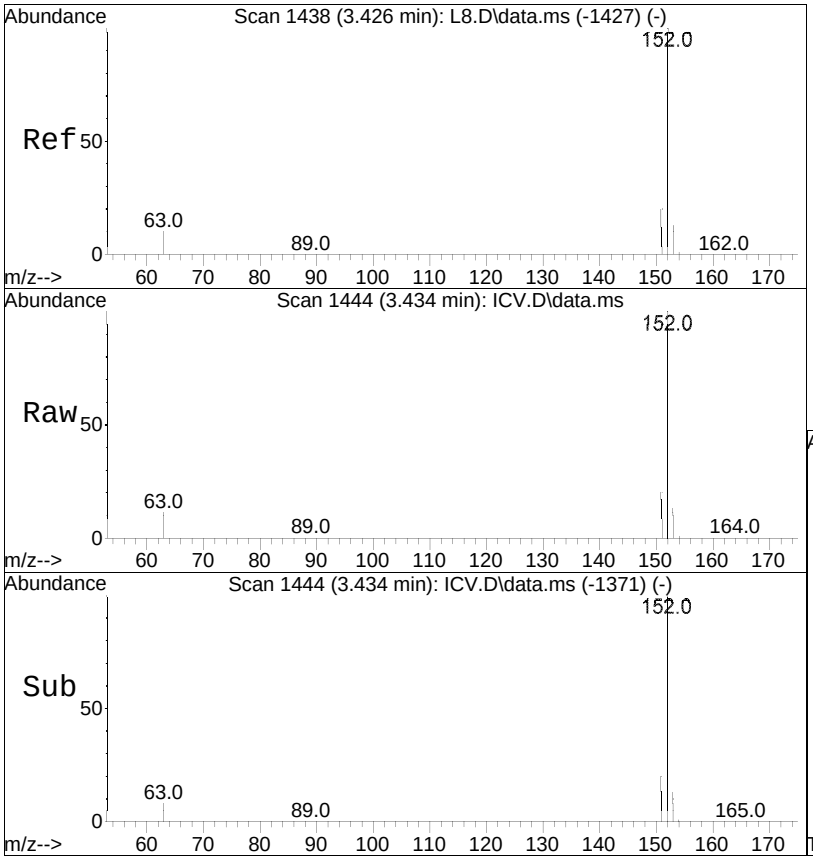


#15
2,6-Dinitrotoluene
Concen: 983.55 ng/ml
RT: 3.410 min Scan# 1424
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:165 Resp: 44232

Ion	Ratio	Lower	Upper
165	100		
89	57.0	45.7	68.5
63	61.6	49.8	74.6

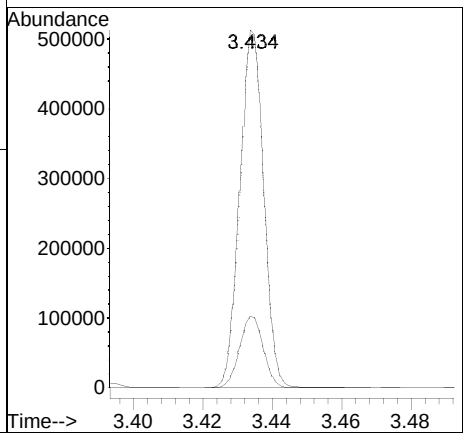


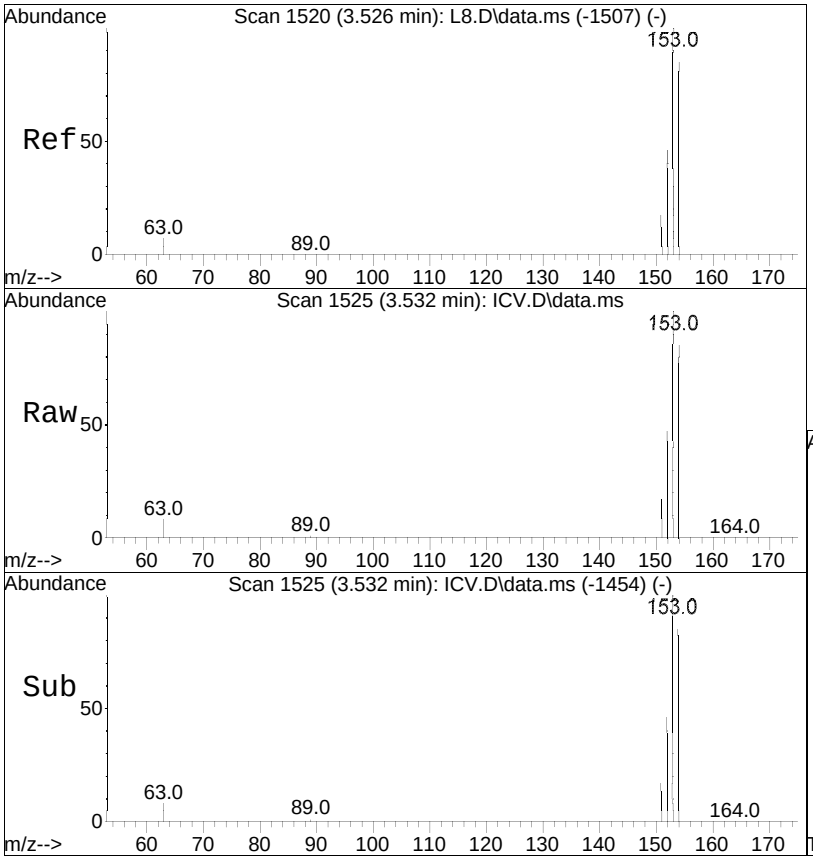


#16
Acenaphthylene
Concen: 906.89 ng/ml
RT: 3.434 min Scan# 1444
Delta R.T. 0.008 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:152 Resp: 241981

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0

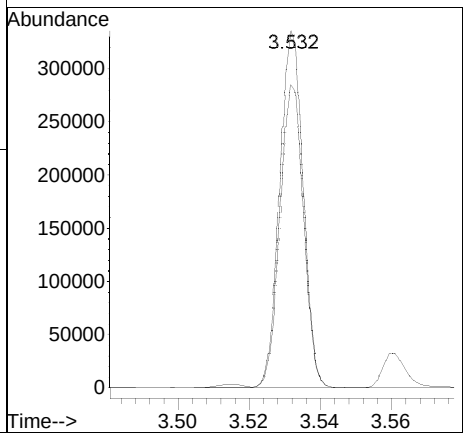


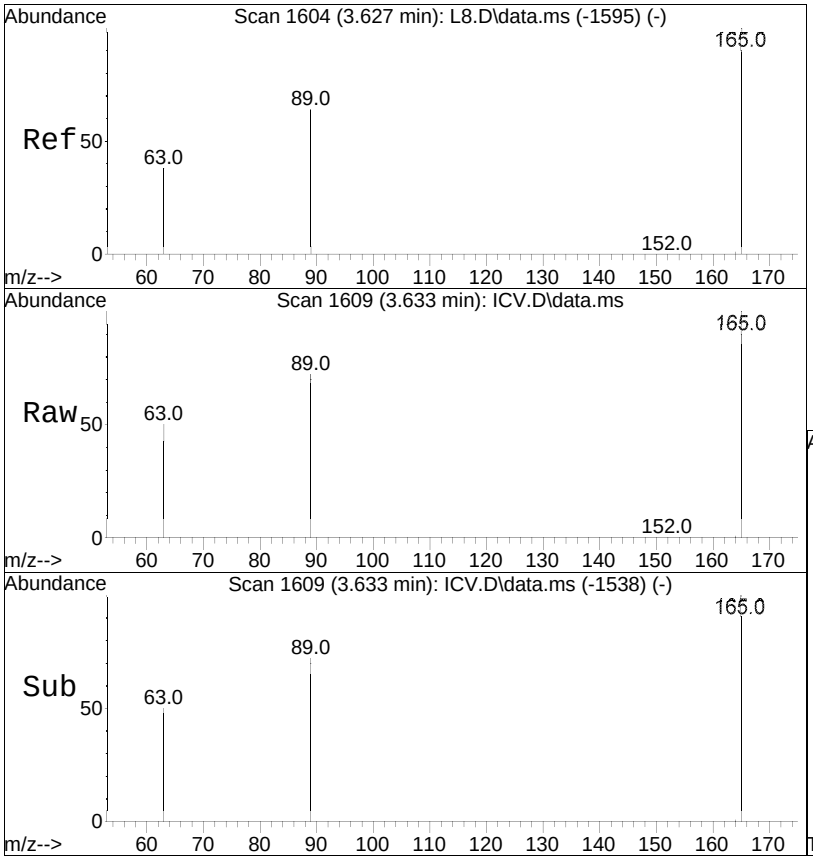


#18
Acenaphthene
Concen: 941.58 ng/ml
RT: 3.532 min Scan# 1525
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:153 Resp: 152236

Ion	Ratio	Lower	Upper
153	100		
154	85.1	68.1	102.1

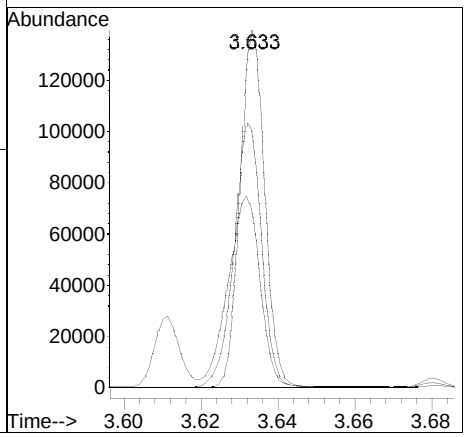


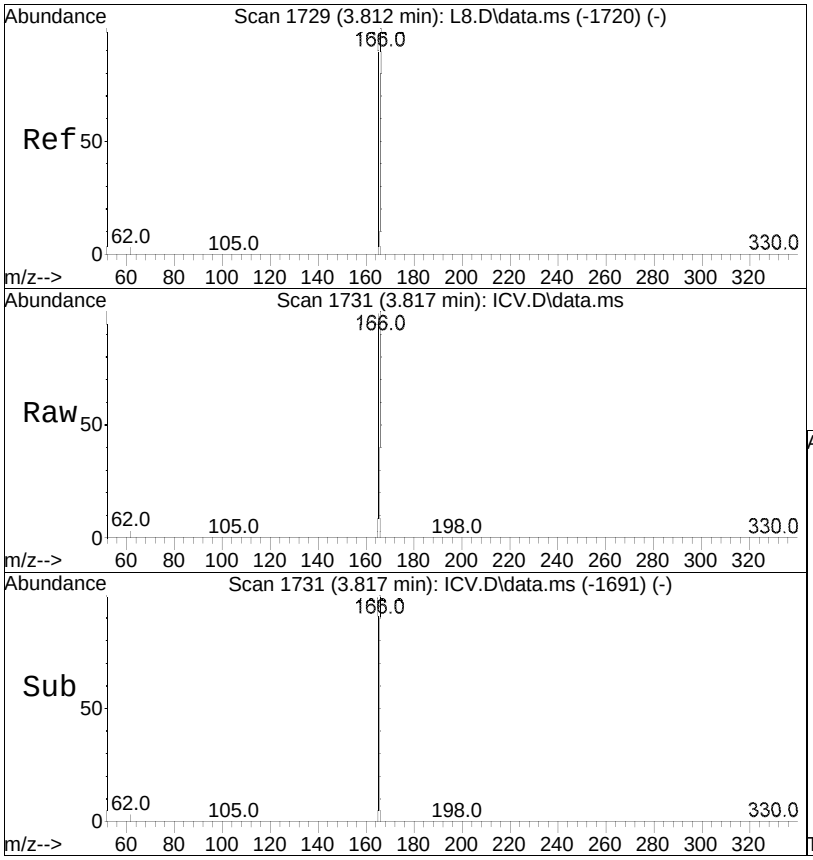


#19
2,4-Dinitrotoluene
Concen: 1000.91 ng/ml
RT: 3.633 min Scan# 1609
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:165 Resp: 61973

Ion	Ratio	Lower	Upper
165	100		
89	82.6	65.8	98.6
63	69.3	55.0	82.4

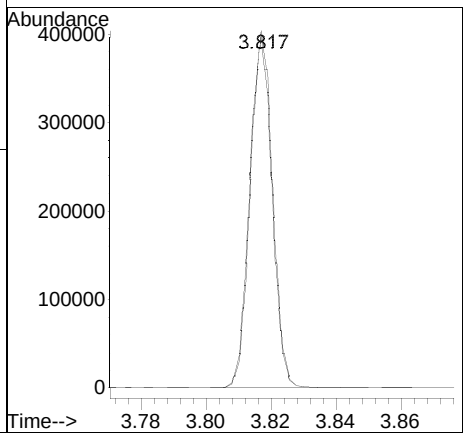


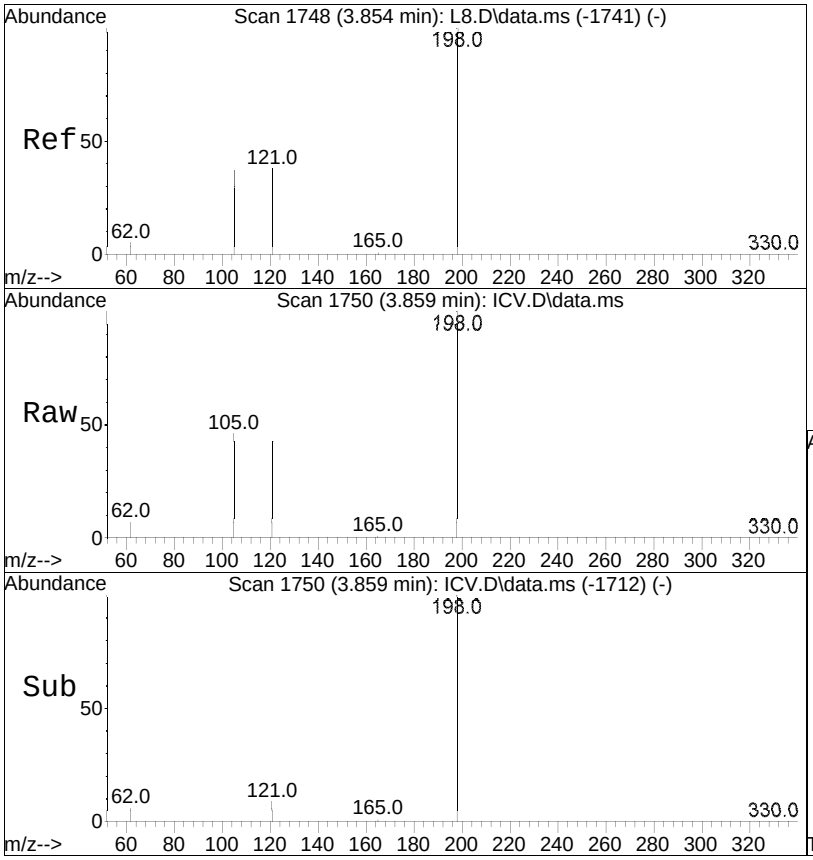


#20
Fluorene
Concen: 902.36 ng/ml
RT: 3.817 min Scan# 1731
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:166 Resp: 192295

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.3	118.9

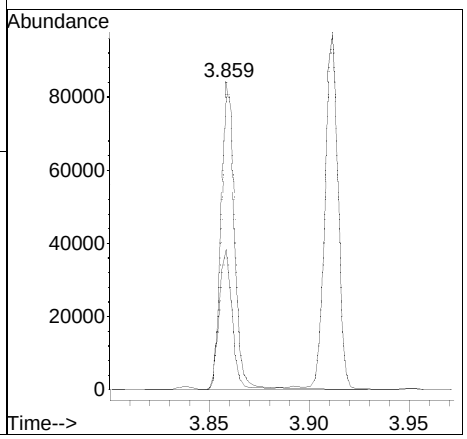


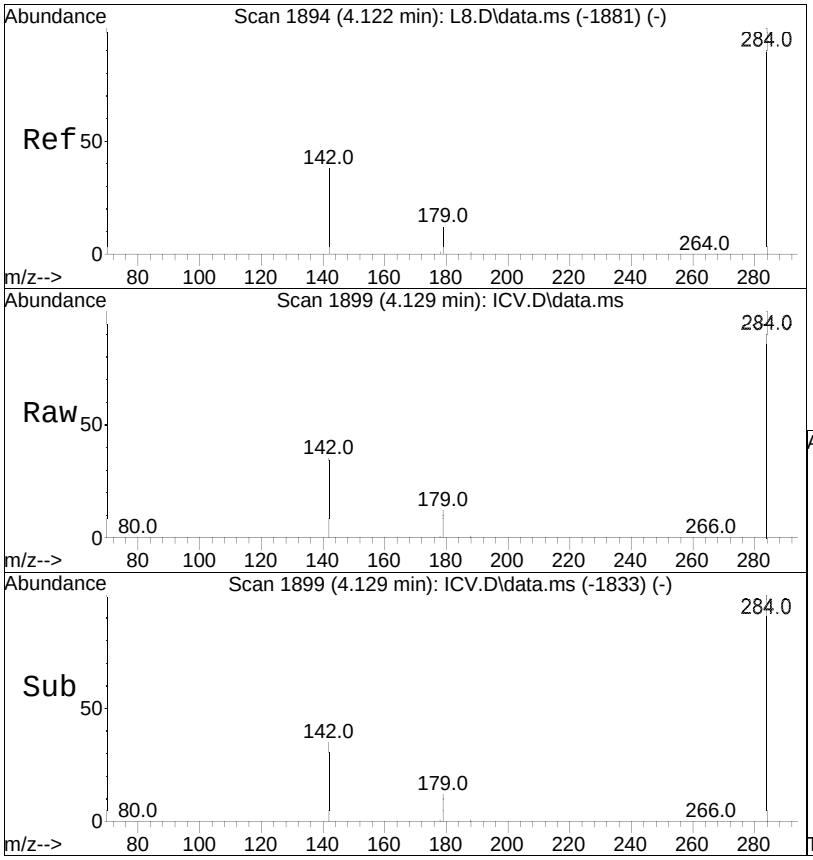


#23
4,6-Dinitro-o-cresol
Concen: 880.62 ng/ml
RT: 3.859 min Scan# 1750
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:198 Resp: 39842

Ion	Ratio	Lower	Upper
198	100		
105	43.8	35.6	53.4

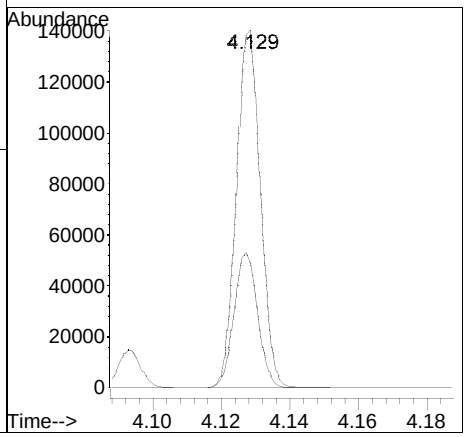


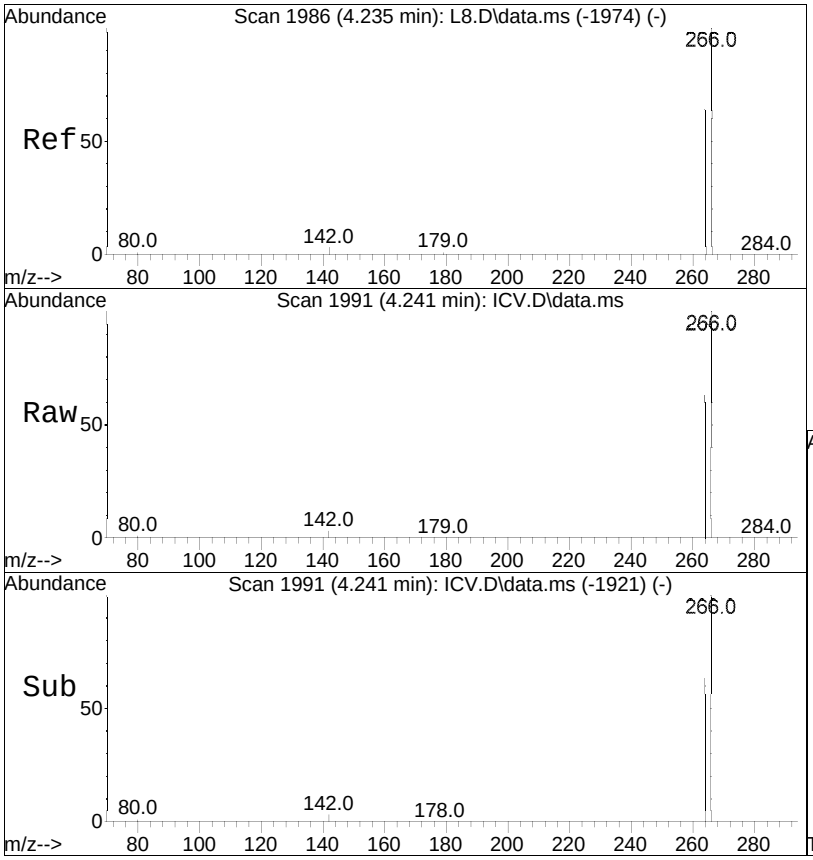


#24
Hexachlorobenzene
Concen: 891.03 ng/ml
RT: 4.129 min Scan# 1899
Delta R.T. 0.007 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:284 Resp: 67436

Ion	Ratio	Lower	Upper
284	100		
142	37.4	30.0	45.0

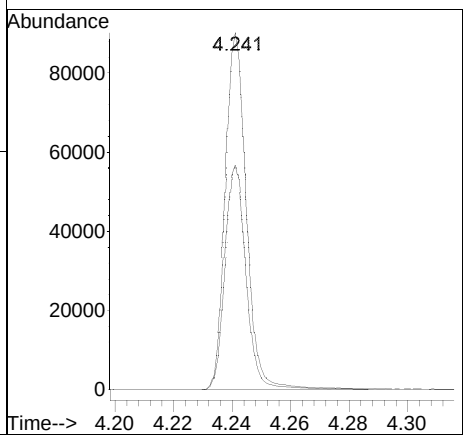


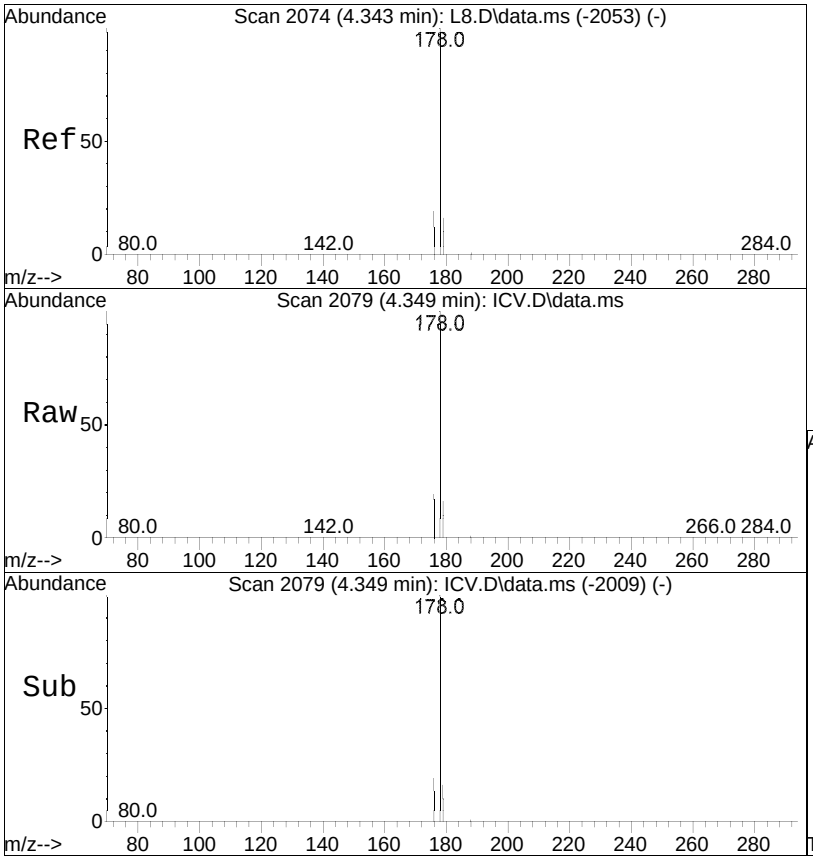


#25
Pentachlorophenol
Concen: 953.98 ng/ml
RT: 4.241 min Scan# 1991
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:266 Resp: 44915

Ion	Ratio	Lower	Upper
266	100		
264	63.0	49.9	74.9

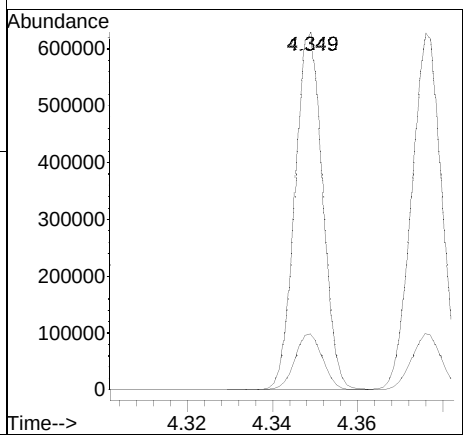


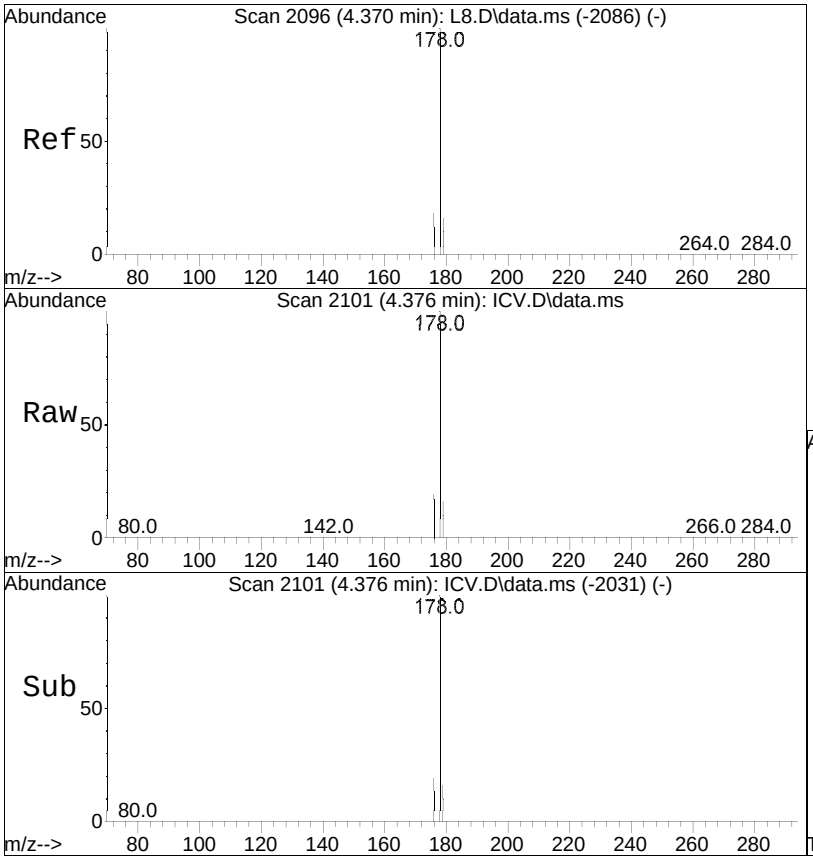


#26
Phenanthrene
Concen: 887.82 ng/ml
RT: 4.349 min Scan# 2079
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:178 Resp: 284491

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.6	18.8

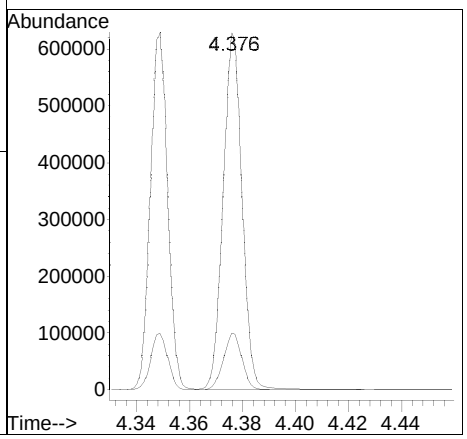


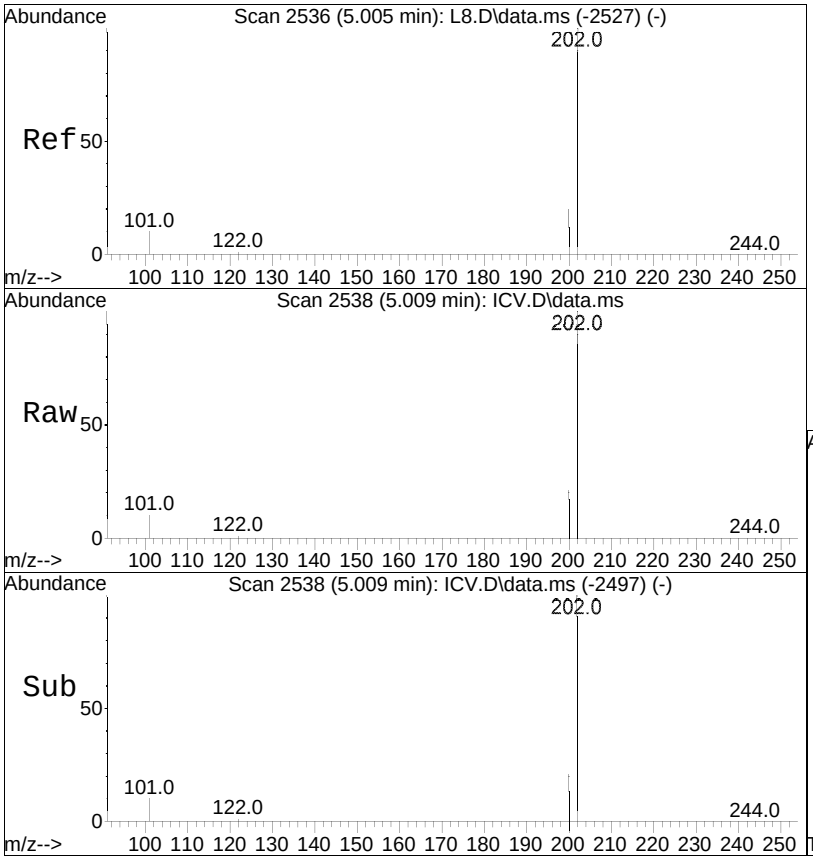


#27
Anthracene
Concen: 935.73 ng/ml
RT: 4.376 min Scan# 2101
Delta R.T. 0.006 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:178 Resp: 309800

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

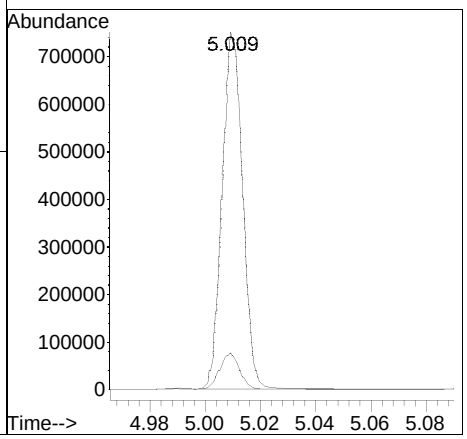


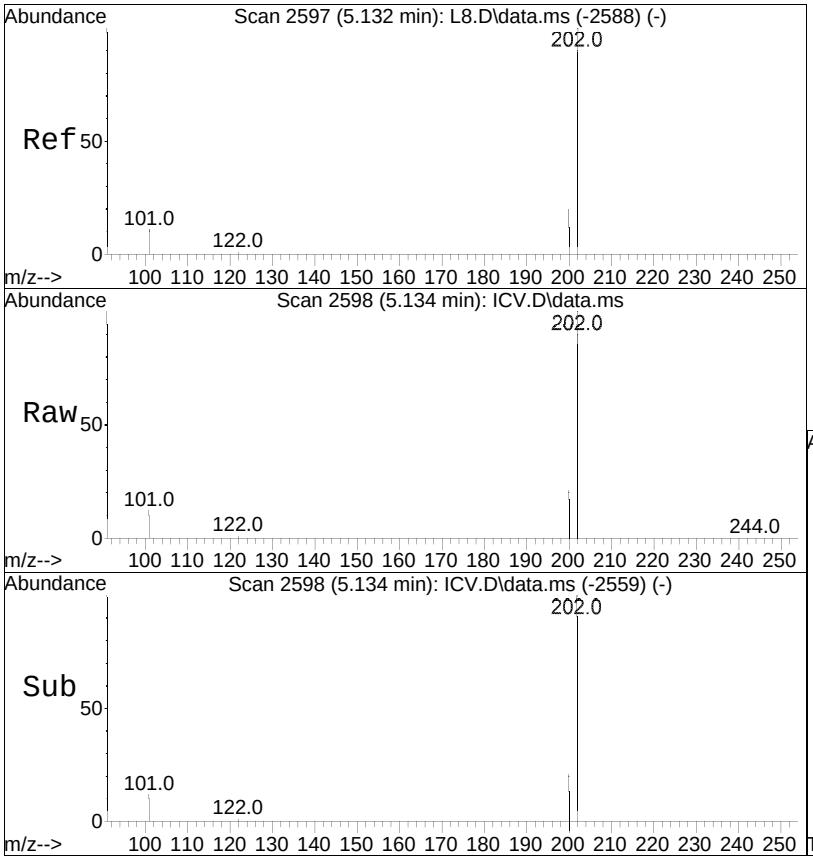


#28
Fluoranthene
Concen: 866.39 ng/ml
RT: 5.009 min Scan# 2538
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:202 Resp: 381208

Ion	Ratio	Lower	Upper
202	100		
101	10.0	8.1	12.1

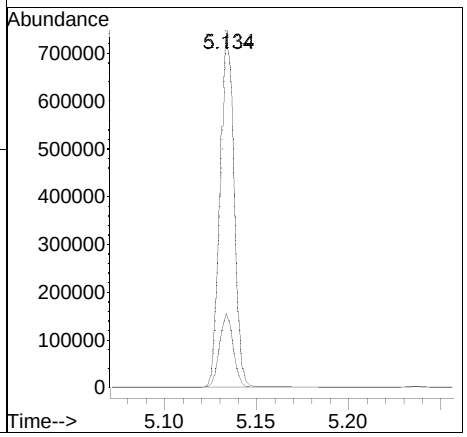


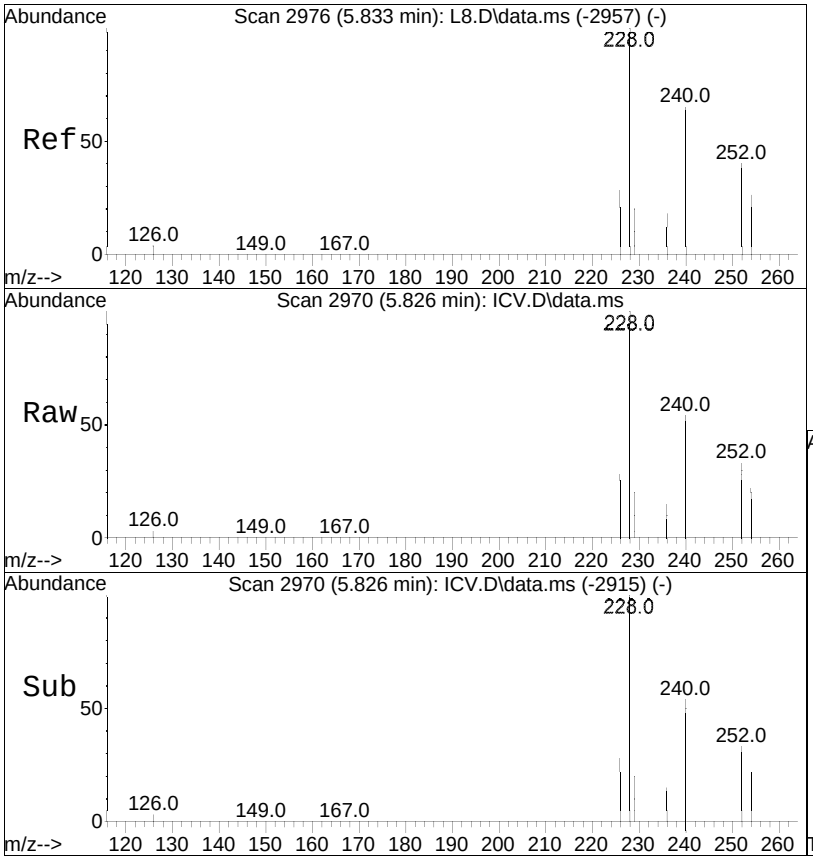


#29
Pyrene
Concen: 849.08 ng/ml
RT: 5.134 min Scan# 2598
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:202 Resp: 387138

Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.5	24.7

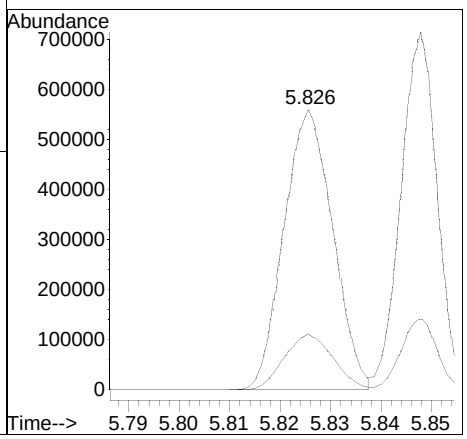


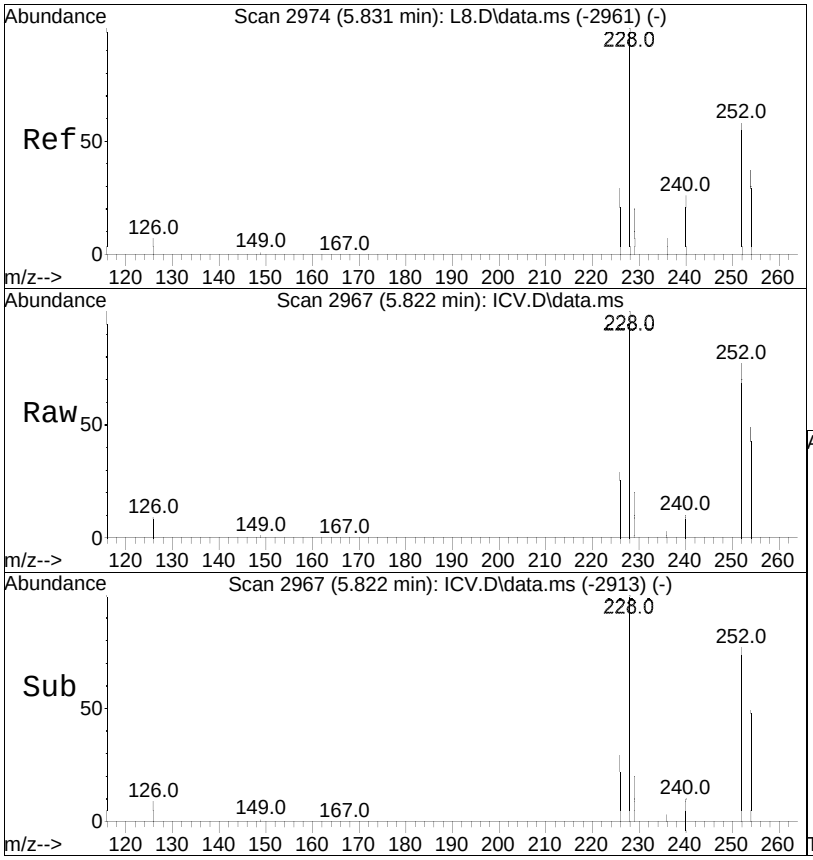


#32
Benzo[a]anthracene
Concen: 951.60 ng/ml
RT: 5.826 min Scan# 2970
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:228 Resp: 375288

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.8	23.8

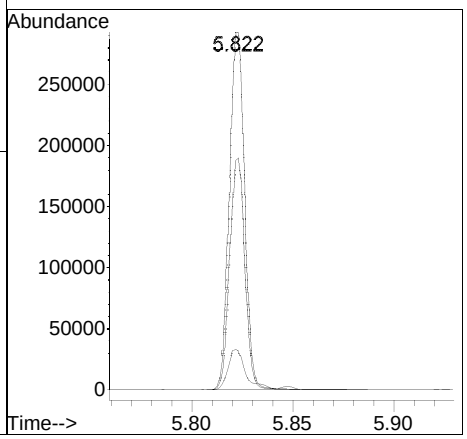


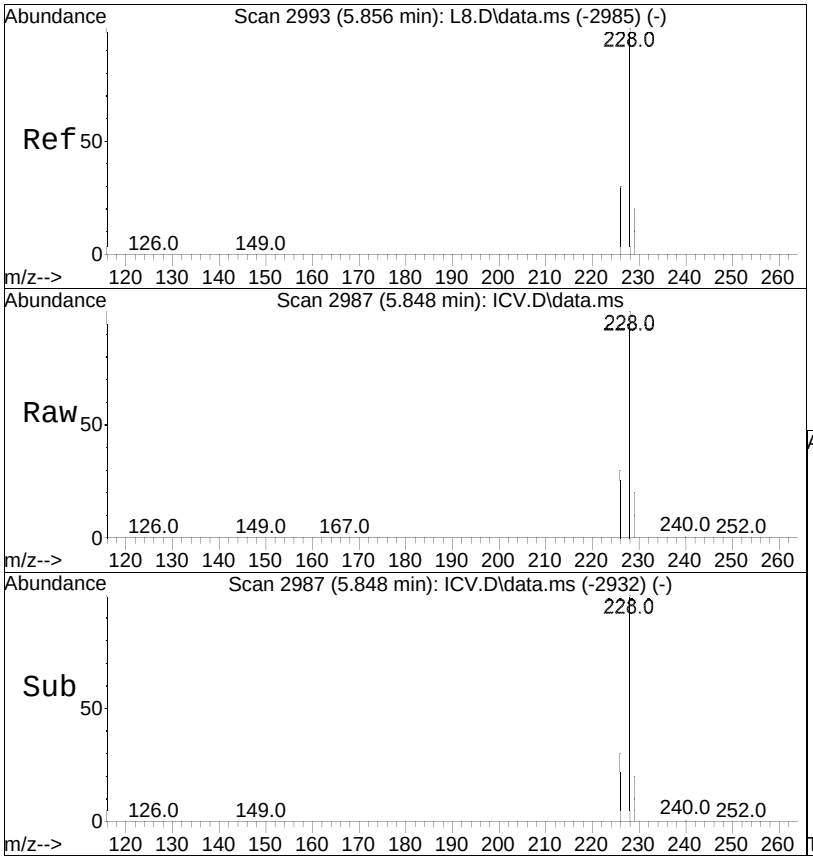


#33
3,3'-Dichlorobenzene
Concen: 950.10 ng/ml
RT: 5.822 min Scan# 2967
Delta R.T. -0.009 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:252 Resp: 151190

Ion	Ratio	Lower	Upper
252	100		
126	13.3	10.5	15.7
254	64.2	51.4	77.0

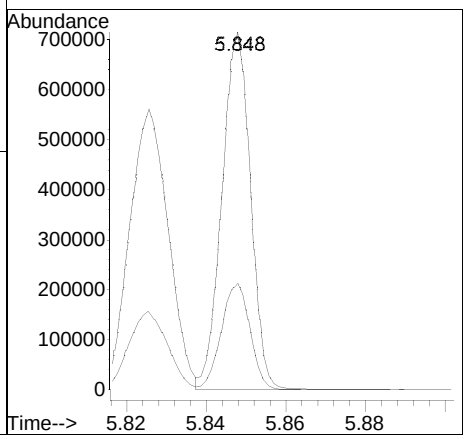


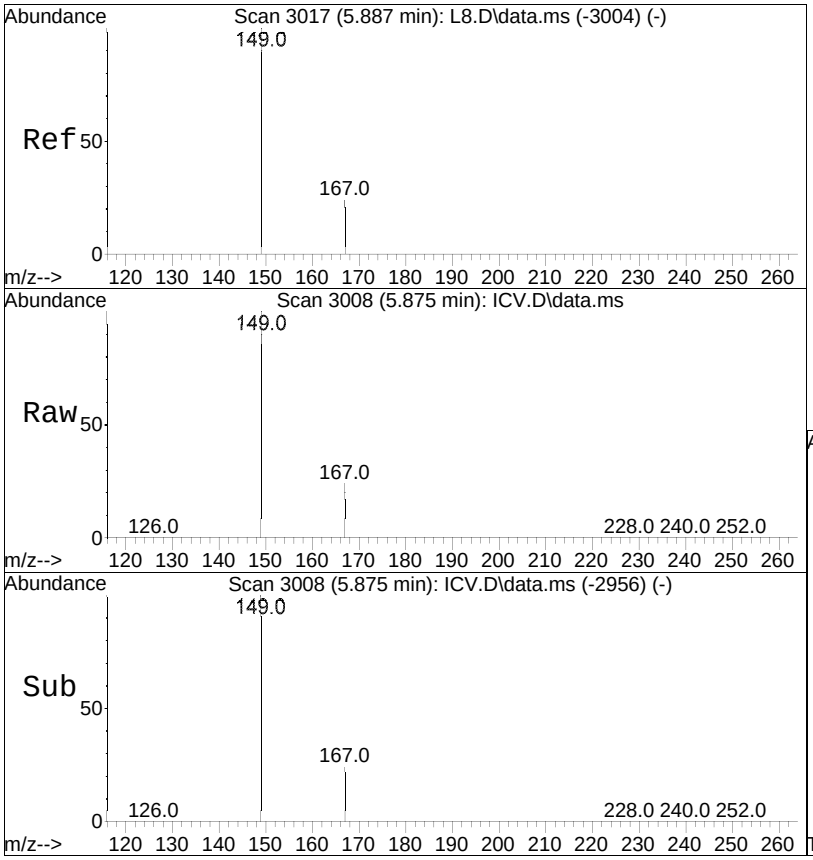


#34
Chrysene
Concen: 915.31 ng/ml
RT: 5.848 min Scan# 2987
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:228 Resp: 354927

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.9	35.9

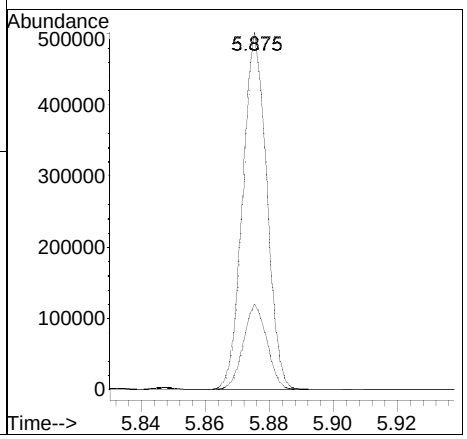


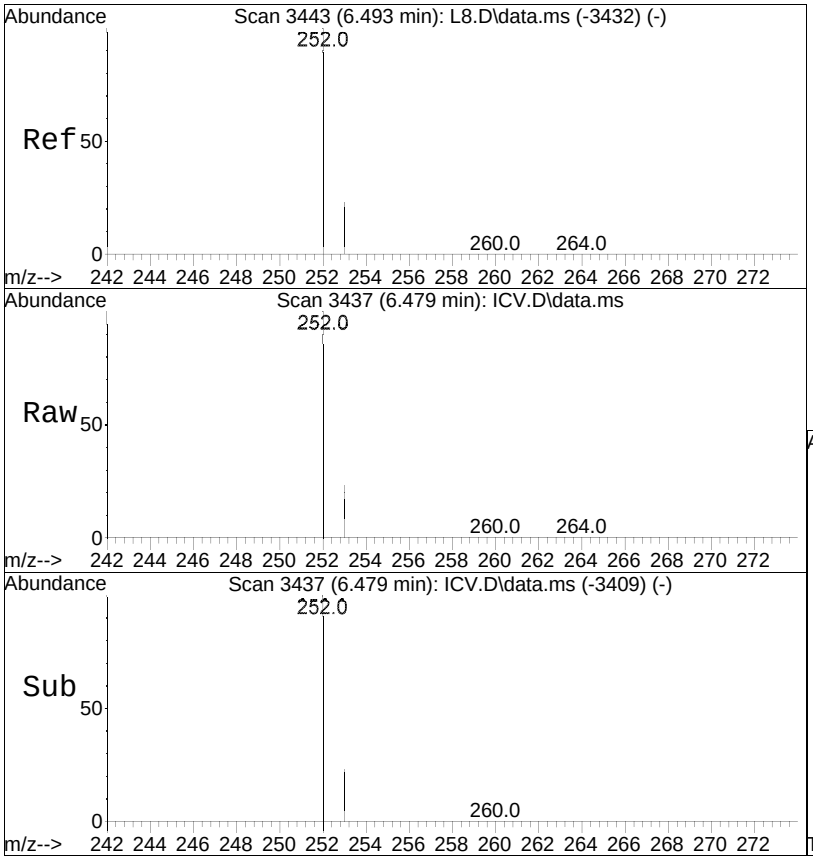


#35
Bis(2-ethylhexyl)phthalate
Concen: 913.16 ng/ml
RT: 5.875 min Scan# 3008
Delta R.T. -0.012 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:149 Resp: 256817

Ion	Ratio	Lower	Upper
149	100		
167	23.7	19.0	28.4

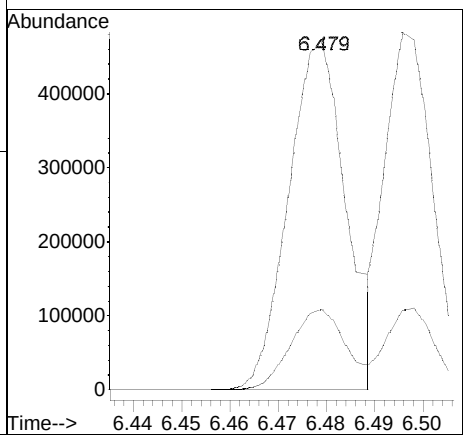


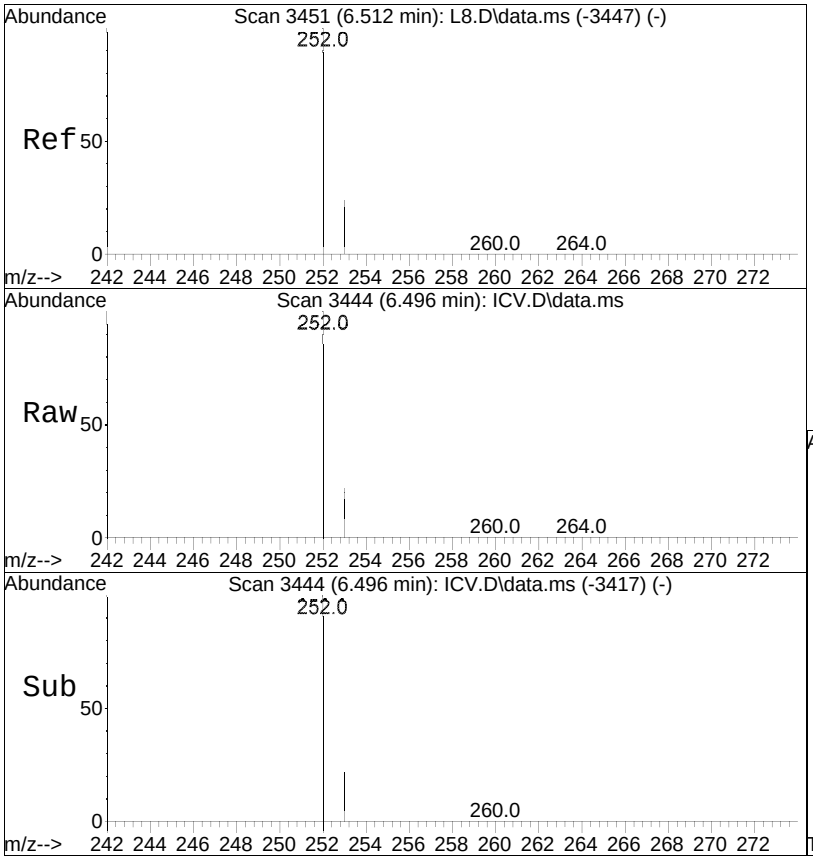


#37
Benzo[b]fluoranthene
Concen: 909.14 ng/ml
RT: 6.479 min Scan# 3437
Delta R.T. -0.014 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:252 Resp: 390762

Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.0	27.0

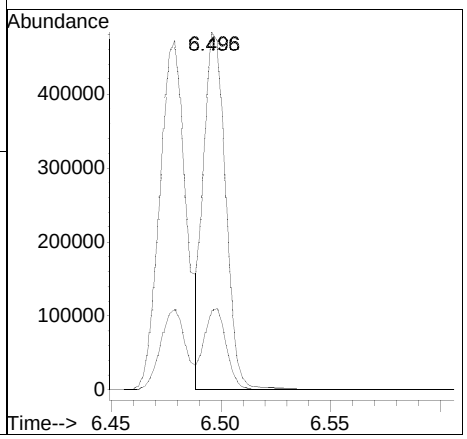


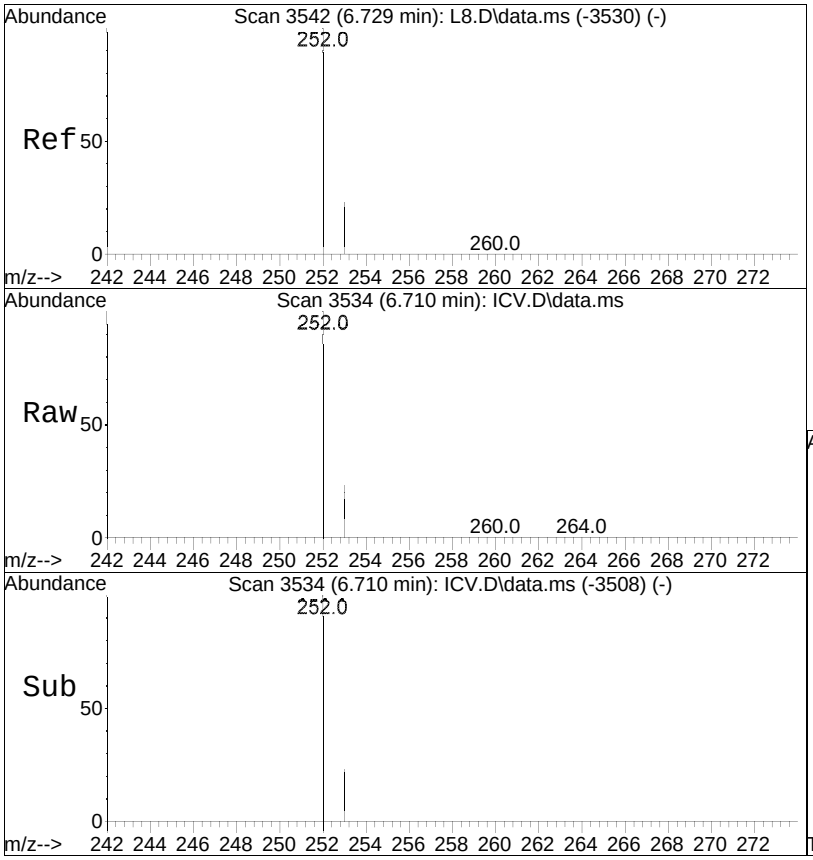


#38
Benzo[k]fluoranthene
Concen: 844.53 ng/ml
RT: 6.496 min Scan# 3444
Delta R.T. -0.016 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:252 Resp: 335346

Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.3	27.5

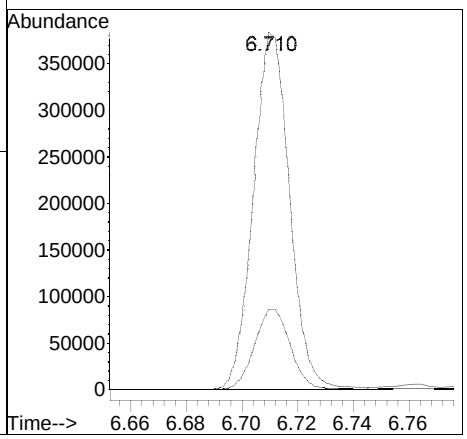


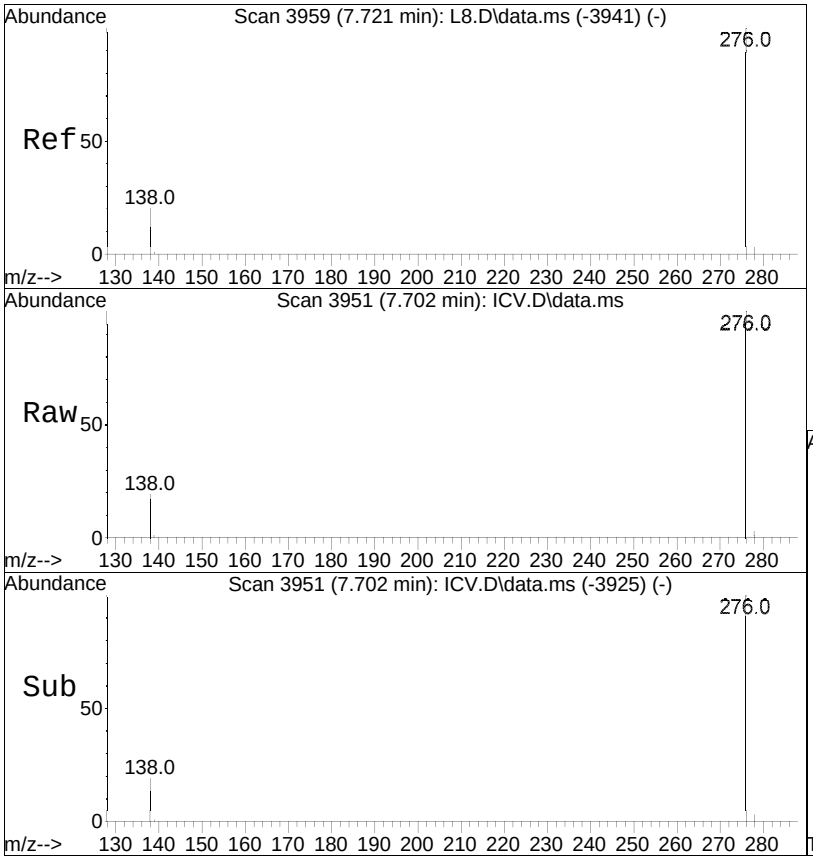


#39
Benzo[a]pyrene
Concen: 901.97 ng/ml
RT: 6.710 min Scan# 3534
Delta R.T. -0.019 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:252 Resp: 343357

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9

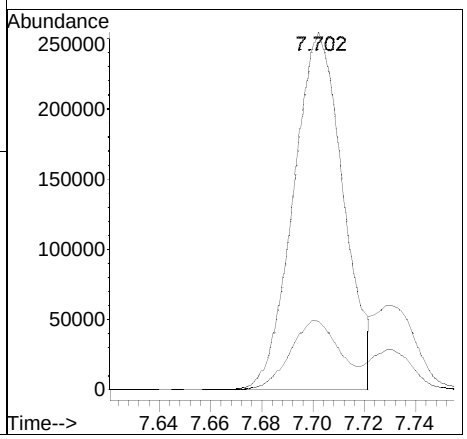


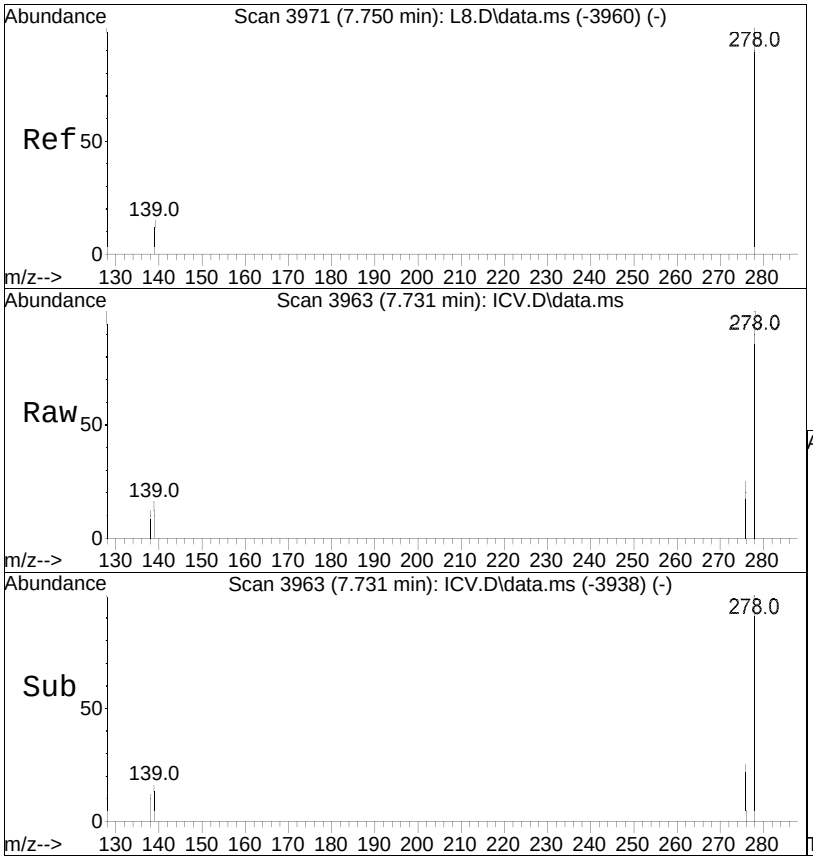


#40
Indeno[1,2,3-cd]pyrene
Concen: 886.99 ng/ml
RT: 7.702 min Scan# 3951
Delta R.T. -0.019 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:276 Resp: 341330

Ion	Ratio	Lower	Upper
276	100		
138	19.1	15.1	22.7

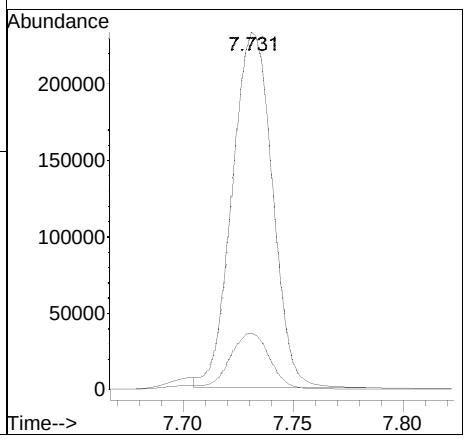


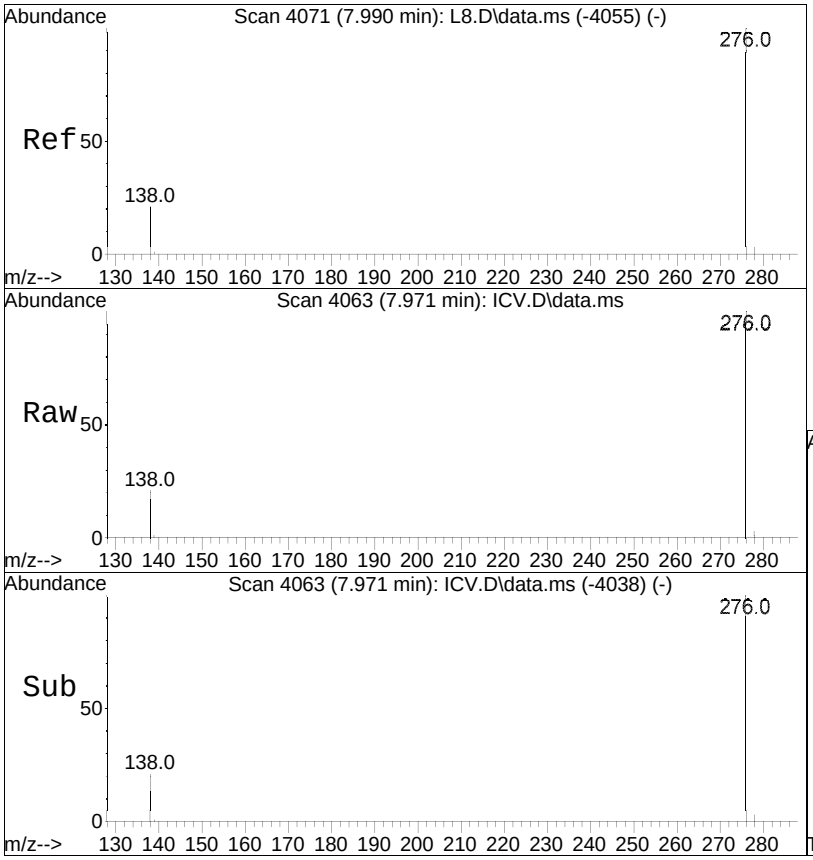


#41
Dibenzo[a,h]anthracene
Concen: 860.79 ng/ml M6
RT: 7.731 min Scan# 3963
Delta R.T. -0.019 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:278 Resp: 295075

Ion	Ratio	Lower	Upper
278	100		
139	15.6	13.3	19.9

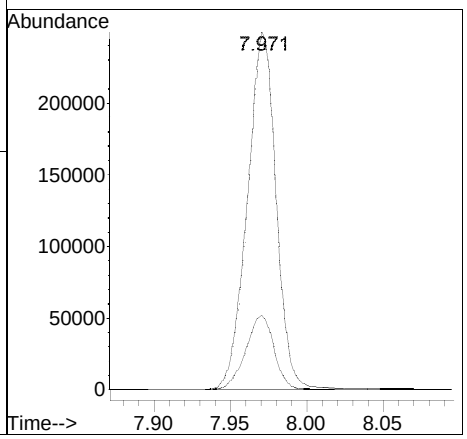




#42
Benzo[g,h,i]perylene
Concen: 851.23 ng/ml
RT: 7.971 min Scan# 4063
Delta R.T. -0.019 min
Lab File: ICV.D
Acq: 21 Jun 2024 05:33 pm

Tgt Ion:276 Resp: 322203

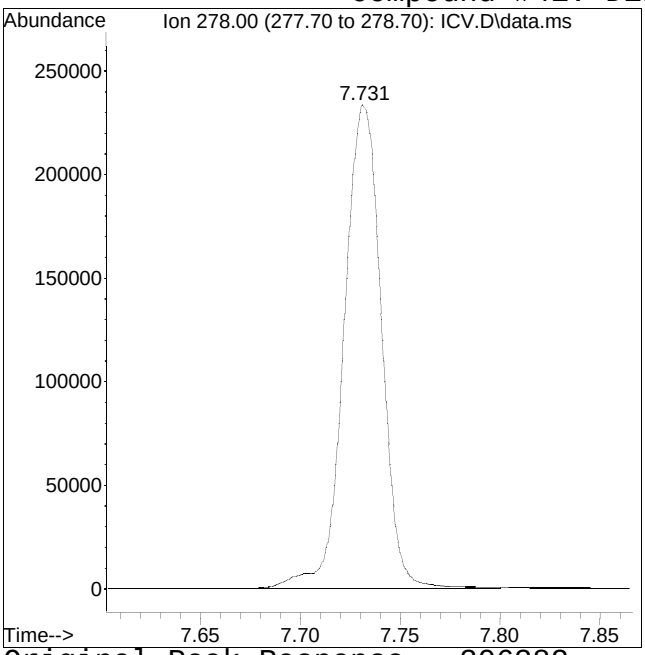
Ion	Ratio	Lower	Upper
276	100		
138	20.8	16.9	25.3



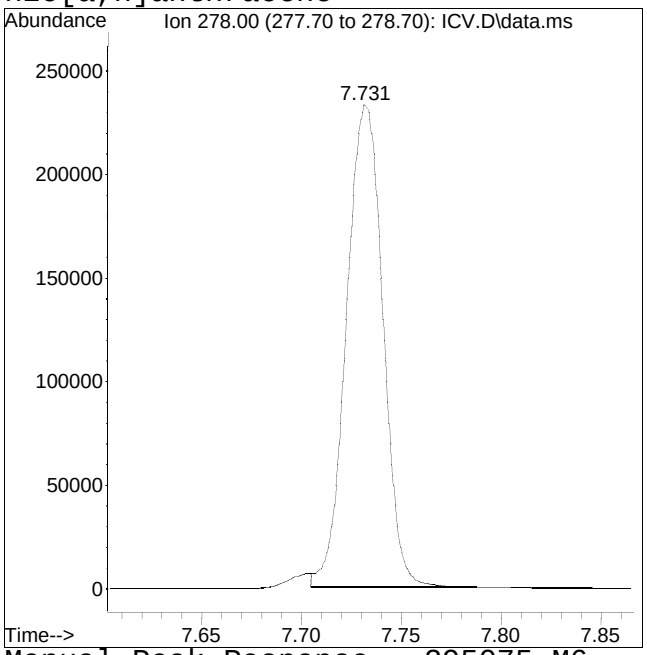
Manual Integration Report

Data Path : I:\8270SIM\sv119\240621RVTQMethod : SIM-RVT_240621_sv119.M
Data File : ICV.D Operator : sv119:dv
Date Inj'd : 6/21/2024 5:33 pm Instrument : SV119
Sample : CQICV,32,, #10475 1000 ng/Quant Date : 6/26/2024 12:48 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 306382



Manual Peak Response = 295075 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Relative Error Report SV119

Method Path : I:\8270SIM\sv119\240621RVTical\
Method File : SIM-RVT_240621_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Jun 26 12:41:11 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
23 T	4,6-Dinitro-o-cresol	Q	ng/ml	1000.0	991.493	-0.9	40.00	46.132	15.3
25 T	Pentachlorophenol	Q	ng/ml	1000.0	1037.550	3.8	5.00	7.392	47.8
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	1068.137	6.8	2.00	1.985	-0.7
35 T	Bis(2-ethylhexyl)phthalate	L	ng/ml	1000.0	1014.123	1.4	40.00	43.633	9.1

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
23 T	4,6-Dinitro-o-cresol	Quadratic	0.999438	-0.007216	0.170334	-0.00100381
25 T	Pentachlorophenol	Quadratic	0.997478	0.032871	0.163746	-0.000173207
32 T	Benzo[a]anthracene	Linear	0.998969	0.000000	1.50131	0.00304083
35 T	Bis(2-ethylhexyl)phthalate	Linear	0.999566	0.000000	1.09576	-0.00365625

Response Factor Report SV120

Method Path : I:\8270SIM\sv120\240728RVTical\
Method File : SIM-RVT_240728_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Aug 07 14:37:40 2024
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

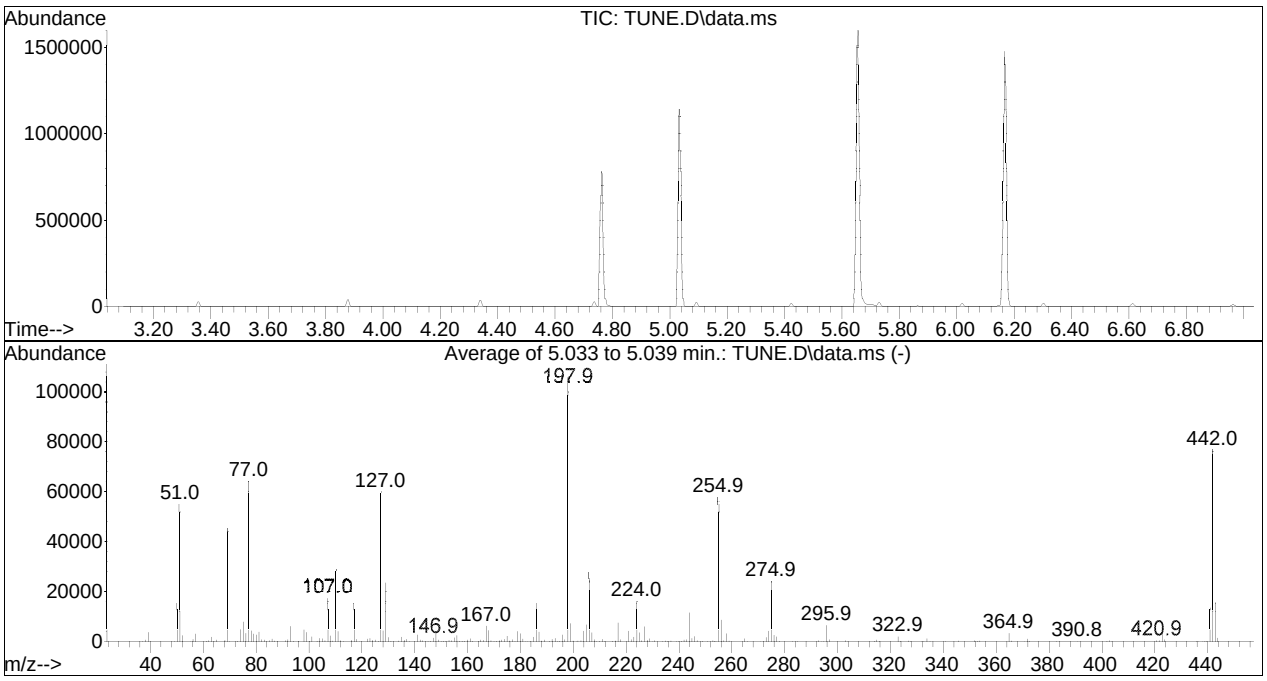
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol	1.200	1.265	1.191	1.180	1.168	1.207	1.198	1.179	1.175	1.117	1.188	3.11
3)	s	Phenol-d6		1.568	1.393	1.412	1.393	1.441	1.451	1.437	1.474	1.440	1.445	3.67
4)	T	bis(2-Chloroethyl)ether		1.630	1.353	1.310	1.279	1.292	1.294	1.244	1.239	1.193	1.315	9.65
5)	T	n-Nitrosodi-n-propylamine		0.925	0.841	0.819	0.799	0.836	0.866	0.879	0.934	0.932	0.870	5.85
6)	t	Hexachloroethane			0.587	0.565	0.551	0.566	0.564	0.552	0.557	0.547	0.561	2.27
7)	s	Nitrobenzene-d5		1.158	1.123	1.115	1.118	1.171	1.200	1.210	1.258	1.234	1.176	4.47
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene	1.315	1.282	1.192	1.180	1.111	1.128	1.103	1.075	1.074	1.028	1.149	8.10
10)	t	Hexachlorobutadiene			0.208	0.208	0.200	0.202	0.196	0.191	0.190	0.184	0.197	4.50
11)	t	2-Methylnaphthalene		0.786	0.729	0.737	0.716	0.734	0.730	0.718	0.721	0.691	0.729	3.47
12)	t	1-Methylnaphthalene		0.749	0.678	0.687	0.674	0.685	0.678	0.664	0.666	0.643	0.680	4.23
13)	s	2-Fluorobiphenyl	0.901	0.948	0.870	0.871	0.854	0.879	0.855	0.827	0.829	0.786	0.862	5.11
14)	t	2-Chloronaphthalene		0.812	0.745	0.744	0.726	0.748	0.742	0.725	0.728	0.697	0.741	4.19
15)	t	2,6-Dinitrotoluene					0.106	0.117	0.143	0.154	0.170	0.168	*L	0.9985
16)	t	Acenaphthylene	1.042	1.058	1.016	1.009	1.003	1.050	1.111	1.115	1.139	1.092	1.063	4.54
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene		1.603	1.465	1.533	1.431	1.443	1.415	1.368	1.384	1.340	1.442	5.75
19)	t	2,4-Dinitrotoluene					0.238	0.273	0.347	0.371	0.406	0.404	*L	0.9987
20)	t	Fluorene	1.827	1.759	1.571	1.547	1.495	1.559	1.589	1.541	1.567	1.529	1.598	6.69
21)	s	2,4,6-Tribromophenol				0.168	0.178	0.205	0.238	0.242	0.257	0.254	0.220	16.45
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol						0.040	0.055	0.081	0.091	0.106	0.112	*Q 0.9987
24)	t	Hexachlorobenzene	0.332	0.300	0.276	0.279	0.270	0.279	0.276	0.266	0.266	0.260	0.280	7.57
25)	t	Pentachlorophenol						0.037	0.062	0.102	0.125	0.154	0.163	*Q 0.9973
26)	t	Phenanthrene			1.242	1.261	1.225	1.211	1.186	1.140	1.134	1.104	1.188	4.77
27)	t	Anthracene			1.187	1.162	1.111	1.139	1.161	1.146	1.150	1.111	1.146	2.26
28)	t	Fluoranthene			1.329	1.308	1.253	1.289	1.318	1.286	1.270	1.215	1.283	2.89
29)	t	Pyrene			1.359	1.326	1.300	1.346	1.407	1.353	1.338	1.268	1.337	3.10
30)	s	4-Terphenyl-d14		0.977	0.856	0.843	0.815	0.835	0.845	0.815	0.795	0.759	0.838	7.19
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene			3.931	2.673	1.652	1.513	1.496	1.499	1.504	1.517	*L	0.9998
33)	t	3,3'-Dichlorob...						0.356	0.396	0.488	0.520	0.572	0.581	*L 0.9983
34)	t	Chrysene			1.457	1.446	1.437	1.487	1.517	1.418	1.459	1.418	1.455	2.32
35)	T	bis(2-Ethylhexyl)phthalate						0.520	0.578	0.789	0.884	1.032	1.080	*Q 0.9986
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...		1.356	1.293	1.226	1.258	1.350	1.442	1.336	1.472	1.420	1.350	6.18
38)	t	Benzo[k]fluora...		1.318	1.181	1.222	1.143	1.201	1.332	1.400	1.309	1.343	1.272	6.87
39)	t	Benzo[a]pyrene		1.021	0.941	0.949	0.949	1.025	1.169	1.180	1.237	1.246	1.080	11.83
40)	t	Indeno[1,2,3-c...			0.878	0.889	0.873	0.921	1.036	1.062	1.171	1.265	1.012	14.62
41)	t	Dibenzo[a,h]anthracene			0.776	0.799	0.808	0.900	1.015	1.041	1.113	1.144	0.950	15.53
42)	t	Benzo[g,h,i]pe...		1.012	0.913	0.926	0.918	0.993	1.077	1.095	1.162	1.212	1.034	10.58

(#) = Out of Range

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : TUNE.D
Acq On : 28 Jul 2024 04:34 pm
Operator : SV120:
Sample : TUNE
Misc : WG1955532,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Aug 05 16:14:31 2024



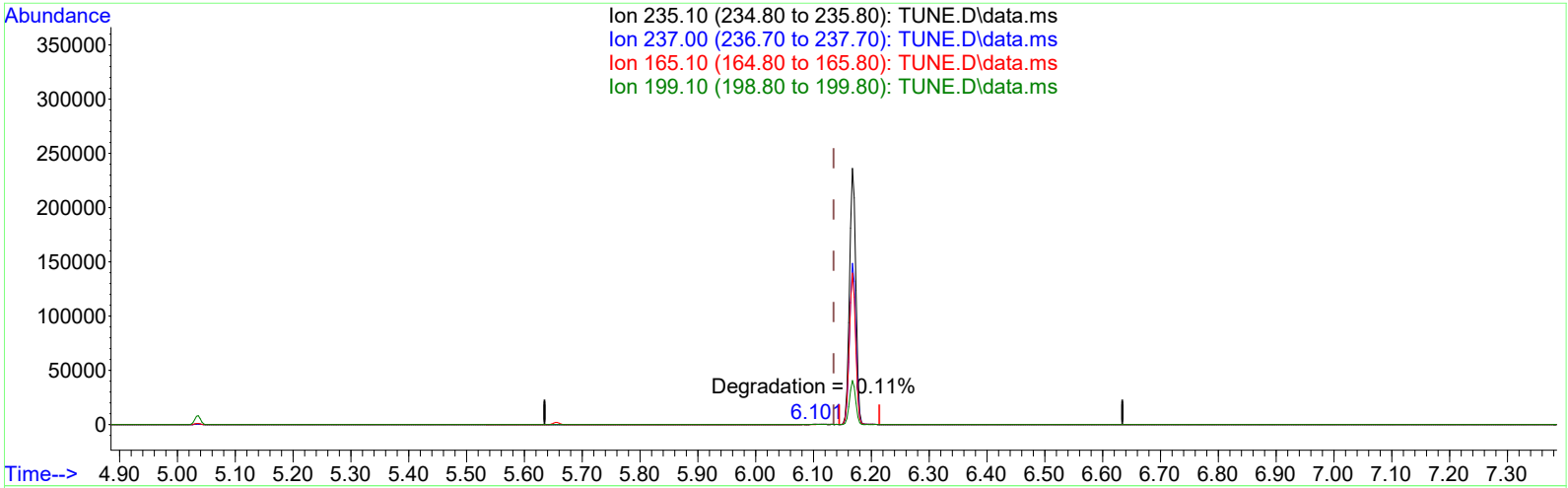
Spectrum Information: Average of 5.033 to 5.039 min.

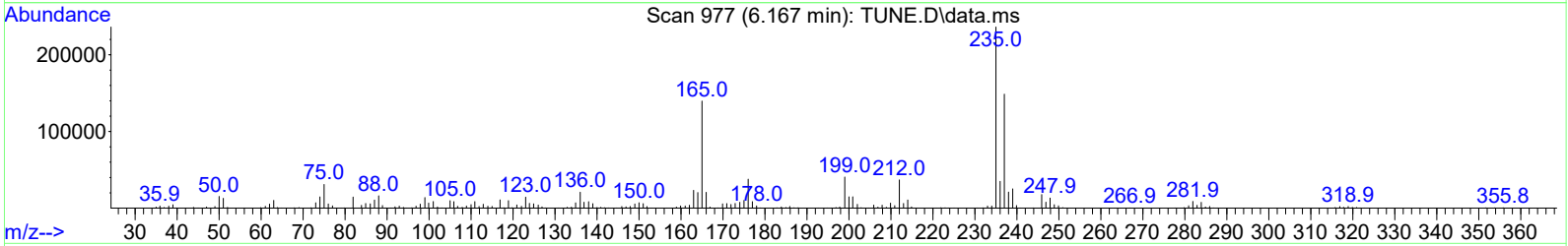
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.0	54955	PASS
68	69	0.00	2	1.8	819	PASS
69	69	100	100	100.0	45315	PASS
70	69	0.00	2	0.8	342	PASS
127	198	10	80	56.7	59891	PASS
197	198	0.00	2	1.0	1022	PASS
198	198	100	100	100.0	105701	PASS
199	198	5	9	6.8	7164	PASS
275	198	10	60	22.8	24133	PASS
365	198	1	100	3.3	3493	PASS
441	442	0.01	24	17.6	13479	PASS
442	198	50	100	72.6	76781	PASS
443	442	15	24	20.1	15450	PASS

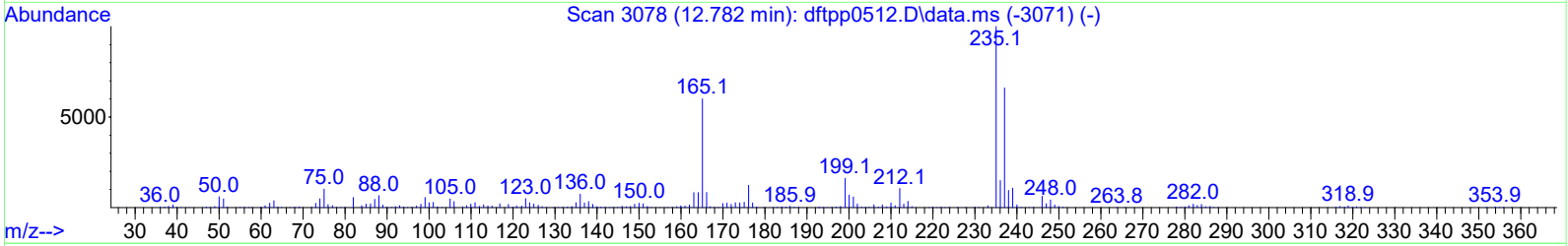
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : TUNE.D
Acq On : 28 Jul 2024 04:34 pm
Operator : SV120:
Sample : TUNE
Misc : WG1955532,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jul 28 16:47:18 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: TUNE.D\data.ms

(6) ddt (T)

6.167min (+ 0.032) 29.51

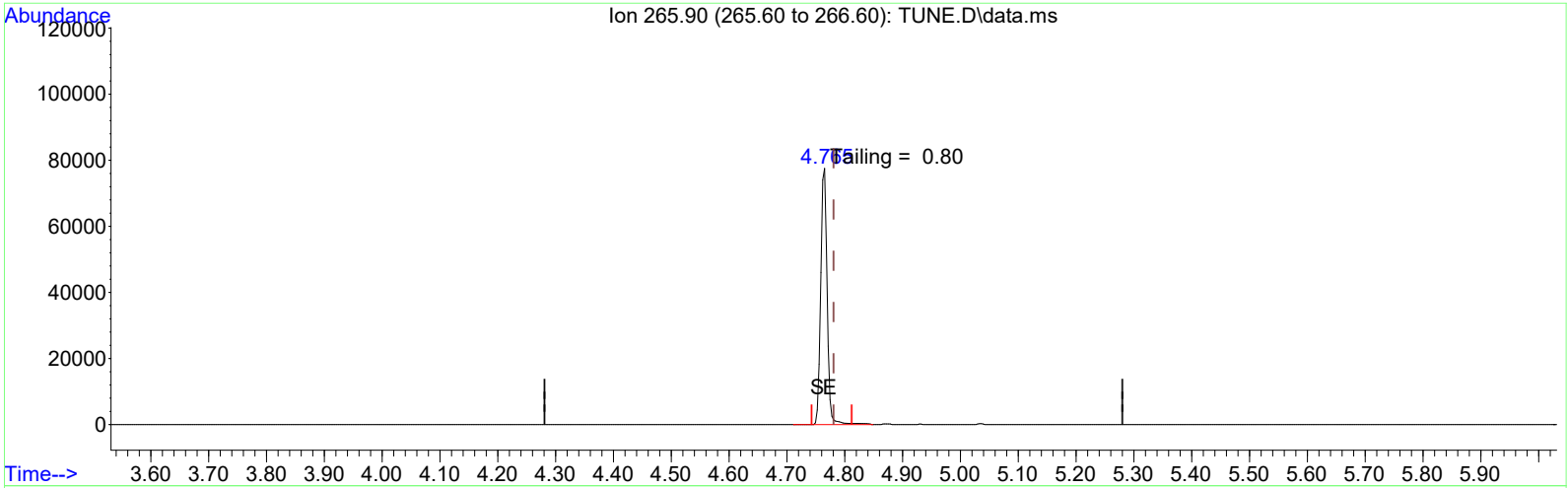
response 179862

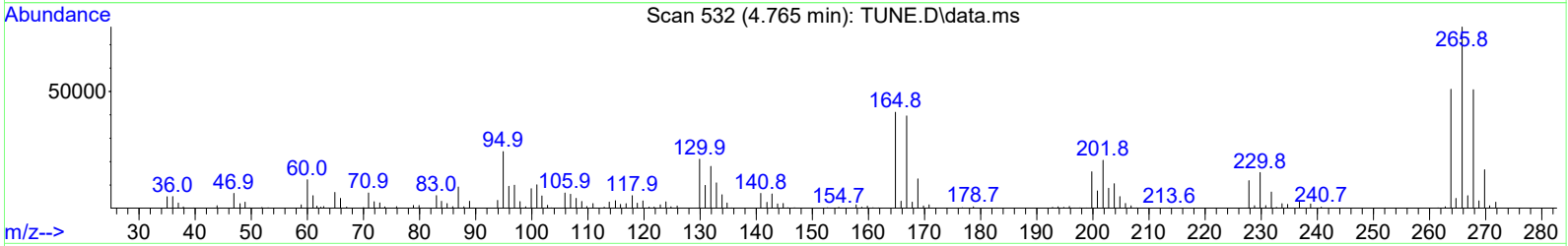
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	62.62
165.10	53.30	58.69
199.10	17.10	16.81

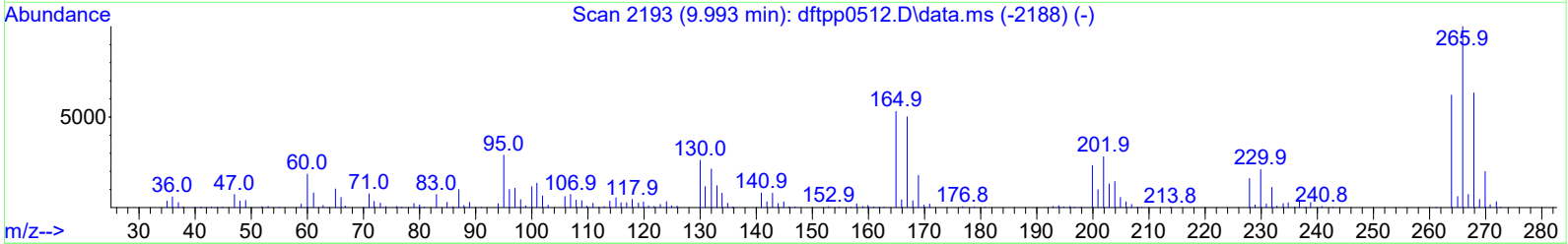
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : TUNE.D
Acq On : 28 Jul 2024 04:34 pm
Operator : SV120:
Sample : TUNE
Misc : WG1955532,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jul 28 16:47:18 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: TUNE.D\data.ms

(1) pentachlorophenol (T)

4.765min (-0.016) 28.43

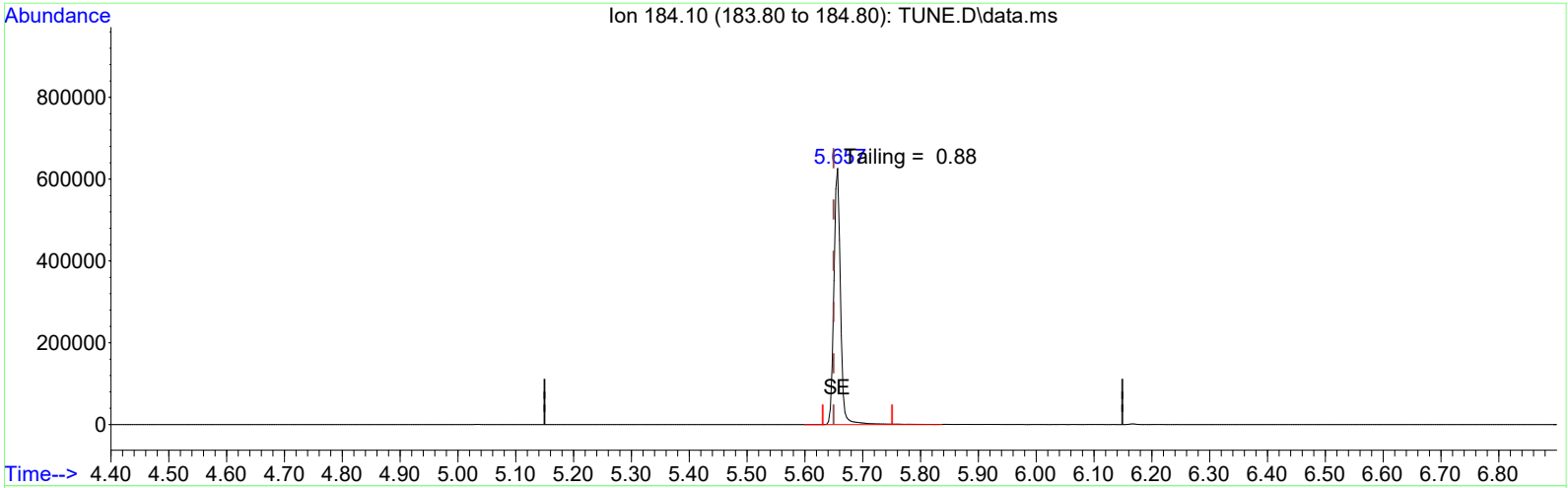
response 59710

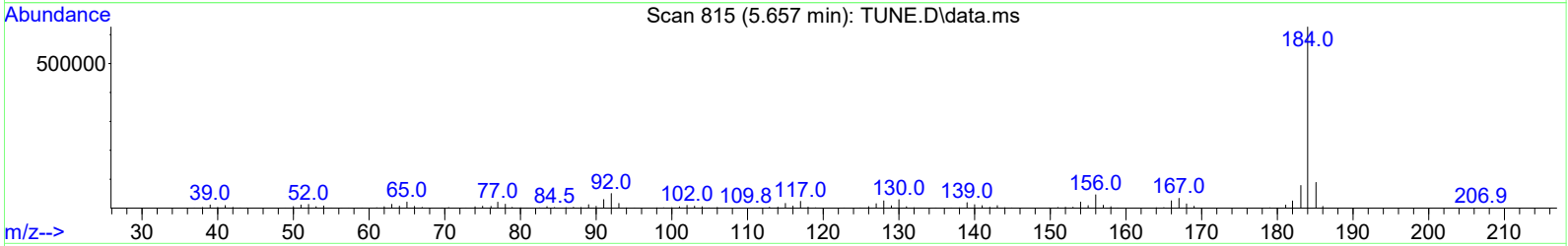
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

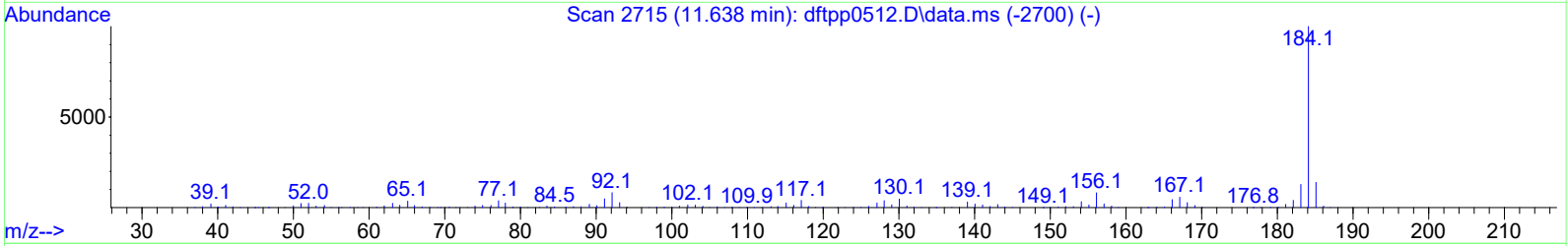
Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : TUNE.D
Acq On : 28 Jul 2024 04:34 pm
Operator : SV120:
Sample : TUNE
Misc : WG1955532,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jul 28 16:47:18 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 15 16:17:30 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D







TIC: TUNE.D\data.ms

(3) benzidine (T)

5.657min (+ 0.007) 48.80

response 496809

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL10.D
Acq On : 28 Jul 2024 04:50 pm
Operator : SV120:jjw
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1955532,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 29 11:54:12 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:55:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.189	152	325198	4000.000	ng/ml	0.00
Standard Area 1 = 333135			Recovery = 97.62%			
8) Naphthalene-d8	2.847	136	1296831	4000.000	ng/ml	0.00
Standard Area 1 = 1286400			Recovery = 100.81%			
17) Acenaphthene-d10	3.818	164	737887	4000.000	ng/ml	0.00
Standard Area 1 = 726145			Recovery = 101.62%			
22) Phenanthrene-d10	4.652	188	1489838	4000.000	ng/ml	0.00
Standard Area 1 = 1502374			Recovery = 99.17%			
31) Chrysene-d12	6.193	240	1204133	4000.000	ng/ml	0.00
Standard Area 1 = 1290415			Recovery = 93.31%			
36) Perylene-d12	7.329	264	1202813	4000.000	ng/ml	0.00
Standard Area 1 = 1272234			Recovery = 94.54%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.609	112	454196	4702.118	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 235.11%#			
3) Phenol-d6	2.006	99	585383	4981.981	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 249.10%#			
7) Nitrobenzene-d5	2.468	82	501568	5244.847	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 524.48%#			
13) 2-Fluorobiphenyl	3.444	172	1274085	4559.070	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 455.91%#			
21) 2,4,6-Tribromophenol	4.262	330	233995	5760.013	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 288.00%#			
30) 4-Terphenyl-d14	5.566	244	1414280	4532.793	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 226.64%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.056	93	485004	4536.439	ng/ml	100
5) n-nitrosodi-n-propylamine	2.393	70	378981	5357.326	ng/ml	99
6) Hexachloroethane	2.446	117	222355	4874.111	ng/ml	100
9) Naphthalene	2.860	128	1666704	4475.661	ng/ml#	99
10) Hexachlorobutadiene	2.932	225	297582	4652.111	ng/ml	100
11) 2-Methylnaphthalene	3.237	142	1119498	4736.163	ng/ml	98
12) 1-Methylnaphthalene	3.292	142	1043004	4728.374	ng/ml	99
14) 2-Chloronaphthalene	3.503	162	1130503	4707.183	ng/ml	99
15) 2,6-Dinitrotoluene	3.704	165	271809	5038.663	ng/ml	97
16) Acenaphthylene	3.737	152	1770050	5133.848	ng/ml	99
18) Acenaphthene	3.837	153	1235837	4644.306	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL10.D
Acq On : 28 Jul 2024 04:50 pm
Operator : SV120:jjw
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1955532,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 29 11:54:12 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:55:27 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.929	165	372556	5047.251	ng/ml	96
20) Fluorene	4.127	166	1410509	4783.522	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.159	198	208119	4962.048	ng/ml	95
24) Hexachlorobenzene	4.441	284	484844	4641.302	ng/ml	99
25) Pentachlorophenol	4.552	266	303306	4141.770	ng/ml	100
26) Phenanthrene	4.666	178	2055390	4646.040	ng/ml	98
27) Anthracene	4.694	178	2069367	4848.361	ng/ml	98
28) Fluoranthene	5.339	202	2262496	4733.165	ng/ml	99
29) Pyrene	5.470	202	2361125	4741.088	ng/ml	99
32) Benzo[a]anthracene	6.185	228	2283840	5037.019	ng/ml	99
33) 3,3'-Dichlorobenzene	6.176	252	875190	5097.147	ng/ml	99
34) Chrysene	6.210	228	2134131	4872.886	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.215	149	1625893	4961.091	ng/ml	98
37) Benzo[b]fluoranthene	6.980	252	2134516	5257.339	ng/ml	99
38) Benzo[k]fluoranthene	7.006	252	2019716	5280.006	ng/ml	98
39) Benzo[a]pyrene	7.274	252	1873434	5769.715	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.489	276	1901996	6251.222	ng/ml	100
41) Dibenzo[a,h]anthracene	8.524	278	1720699M6	6026.076	ng/ml	
42) Benzo[g,h,i]perylene	8.822	276	1822447	5874.628	ng/ml	100

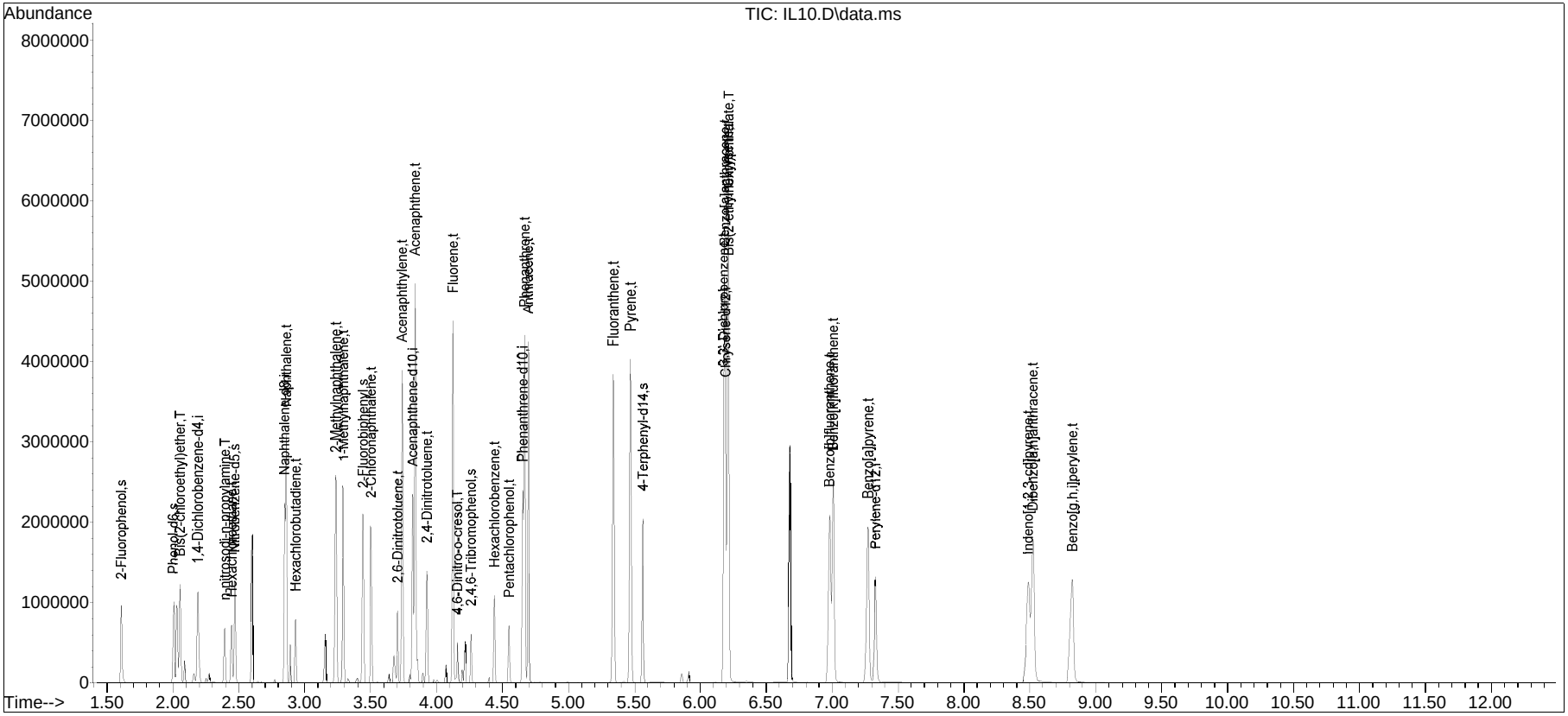
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL10.D
Acq On : 28 Jul 2024 04:50 pm
Operator : SV120:jjw
Sample : IL10,32,,5000.0ng/mL lot# 10885
Misc : WG1955532,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 29 11:54:12 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:55:27 2024
Response via : Initial Calibration

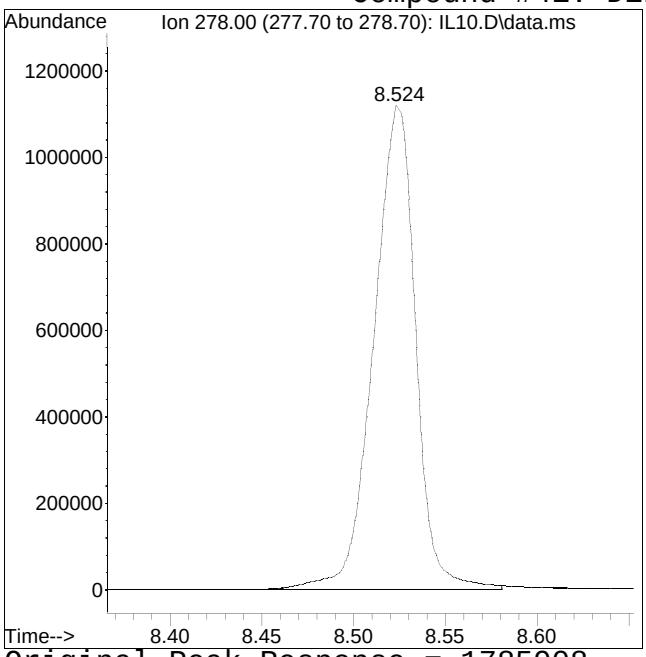
Sub List : Default - All compounds listedical\IL8.D•



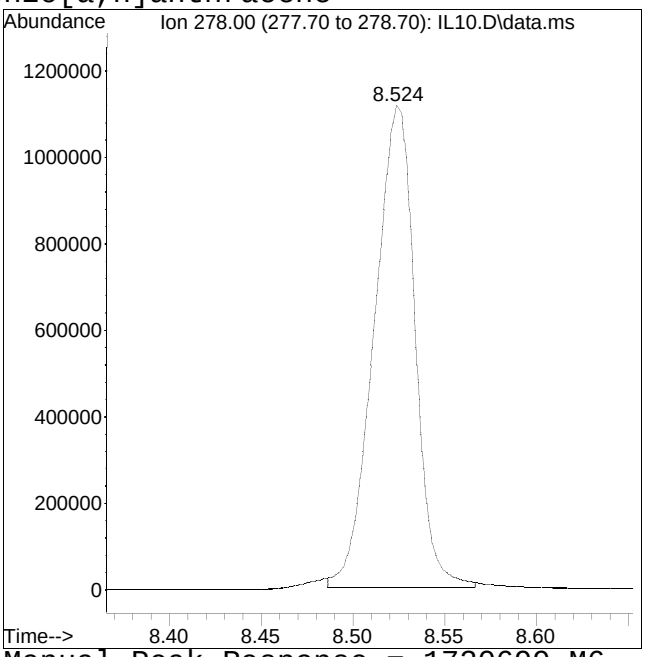
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQMethod : SIM-RVT_240728_sv120.M
Data File : IL10.D Operator : SV120:jjw
Date Inj'd : 7/28/2024 4:50 pm Instrument : SV120
Sample : IL10,32,,5000.0ng/mL lot# Quant Date : 7/29/2024 11:55 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 1785908



Manual Peak Response = 1720699 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL9.D
Acq On : 28 Jul 2024 05:07 pm
Operator : SV120:jjw
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1955532,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 11:54:20 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:55:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.189	152	329104	4000.000	ng/ml	0.00
Standard Area 1 = 333135			Recovery = 98.79%			
8) Naphthalene-d8	2.847	136	1290491	4000.000	ng/ml	0.00
Standard Area 1 = 1286400			Recovery = 100.32%			
17) Acenaphthene-d10	3.818	164	731498	4000.000	ng/ml	0.00
Standard Area 1 = 726145			Recovery = 100.74%			
22) Phenanthrene-d10	4.652	188	1517349	4000.000	ng/ml	0.00
Standard Area 1 = 1502374			Recovery = 101.00%			
31) Chrysene-d12	6.187	240	1247883	4000.000	ng/ml	0.00
Standard Area 1 = 1290415			Recovery = 96.70%			
36) Perylene-d12	7.324	264	1242298	4000.000	ng/ml	0.00
Standard Area 1 = 1272234			Recovery = 97.65%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.609	112	241774	2473.287	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 123.66%#			
3) Phenol-d6	2.006	99	303186	2549.681	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 127.48%#			
7) Nitrobenzene-d5	2.468	82	258773	2673.847	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 267.38%#			
13) 2-Fluorobiphenyl	3.441	172	668610	2404.247	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 240.42%#			
21) 2,4,6-Tribromophenol	4.262	330	117358	2914.112	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 145.71%#			
30) 4-Terphenyl-d14	5.563	244	753459	2371.066	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 118.55%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.056	93	254782	2354.796	ng/ml	100
5) n-nitrosodi-n-propylamine	2.390	70	192120	2683.601	ng/ml	99
6) Hexachloroethane	2.446	117	114653	2483.411	ng/ml	99
9) Naphthalene	2.860	128	866001	2336.929	ng/ml#	100
10) Hexachlorobutadiene	2.933	225	152937	2402.616	ng/ml	100
11) 2-Methylnaphthalene	3.237	142	581766	2473.319	ng/ml	99
12) 1-Methylnaphthalene	3.292	142	536987	2446.347	ng/ml	100
14) 2-Chloronaphthalene	3.503	162	587358	2457.654	ng/ml	100
15) 2,6-Dinitrotoluene	3.701	165	137287	2568.542	ng/ml	98
16) Acenaphthylene	3.737	152	918271	2676.435	ng/ml	100
18) Acenaphthene	3.837	153	632526	2397.810	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL9.D
Acq On : 28 Jul 2024 05:07 pm
Operator : SV120:jjw
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1955532,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 11:54:20 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:55:34 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.926	165	185835	2551.549	ng/ml	97
20) Fluorene	4.124	166	716280	2450.369	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.157	198	100870	2606.877	ng/ml	95
24) Hexachlorobenzene	4.438	284	251991	2368.517	ng/ml	100
25) Pentachlorophenol	4.550	266	146461	2488.347	ng/ml	100
26) Phenanthrene	4.663	178	1075621	2387.270	ng/ml	99
27) Anthracene	4.691	178	1091022	2509.831	ng/ml	100
28) Fluoranthene	5.339	202	1204556	2474.255	ng/ml	100
29) Pyrene	5.467	202	1268976	2501.878	ng/ml	99
32) Benzo[a]anthracene	6.177	228	1172983	2492.594	ng/ml	100
33) 3,3'-Dichlorobenzene	6.170	252	446422	2520.865	ng/ml	99
34) Chrysene	6.202	228	1137905	2507.101	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.210	149	805016	2608.735	ng/ml	99
37) Benzo[b]fluoranthene	6.972	252	1142790	2725.244	ng/ml	99
38) Benzo[k]fluoranthene	6.995	252	1016529	2572.979	ng/ml	99
39) Benzo[a]pyrene	7.263	252	960831	2865.070	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.480	276	909078	2892.869	ng/ml	99
41) Dibenzo[a,h]anthracene	8.514	278	863803M6	2928.982	ng/ml	
42) Benzo[g,h,i]perylene	8.804	276	902380	2816.354	ng/ml	99

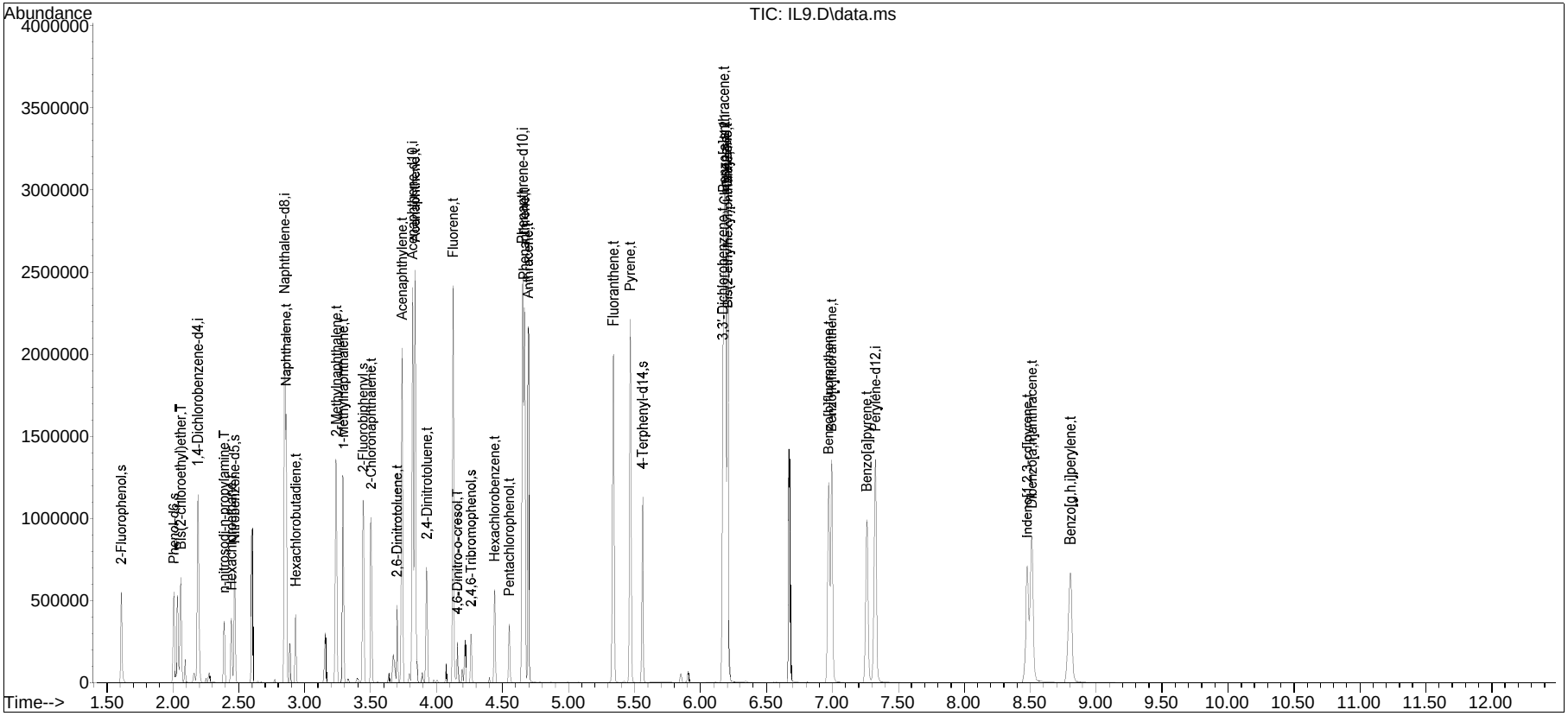
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL9.D
Acq On : 28 Jul 2024 05:07 pm
Operator : SV120:jjw
Sample : IL9,32,,2500.0ng/mL lot# 10901
Misc : WG1955532,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 11:54:20 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:55:34 2024
Response via : Initial Calibration

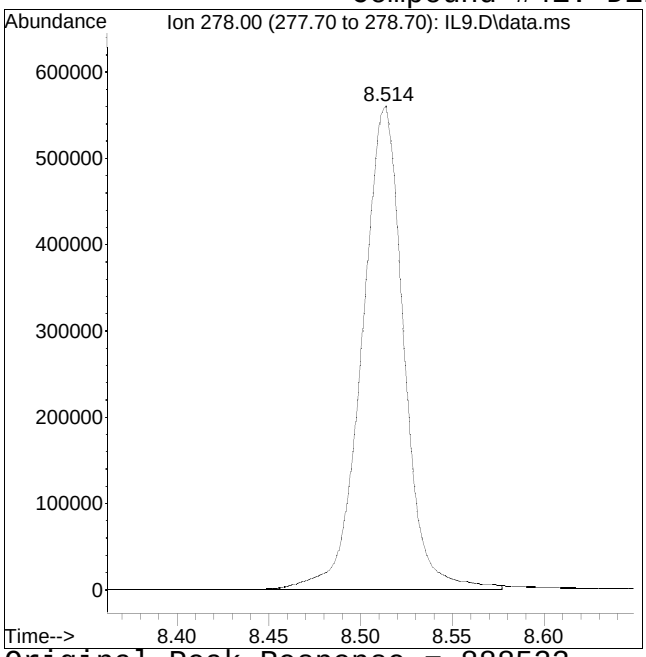
Sub List : Default - All compounds listedical\IL8.D•



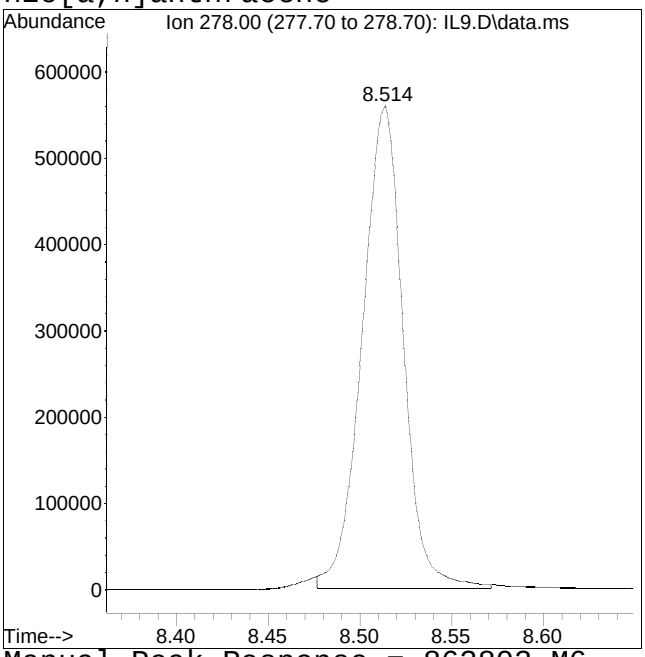
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQMethod : SIM-RVT_240728_sv120.M
Data File : IL9.D Operator : SV120:jjw
Date Inj'd : 7/28/2024 5:07 pm Instrument : SV120
Sample : IL9,32,,2500.0ng/mL lot# 1Quant Date : 7/29/2024 11:55 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 888523



Manual Peak Response = 863803 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL8.D
Acq On : 28 Jul 2024 05:23 pm
Operator : SV120:jjw
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1955532,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 16:14:01 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 05 16:14:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.193	152	333161	4000.000	ng/ml	0.00
Standard Area 1 = 333135			Recovery = 100.01%			
8) Naphthalene-d8	2.850	136	1286400	4000.000	ng/ml	0.00
Standard Area 1 = 1286400			Recovery = 100.00%			
17) Acenaphthene-d10	3.819	164	726145	4000.000	ng/ml	0.00
Standard Area 1 = 726145			Recovery = 100.00%			
22) Phenanthrene-d10	4.653	188	1502374	4000.000	ng/ml	0.00
Standard Area 1 = 1502374			Recovery = 100.00%			
31) Chrysene-d12	6.183	240	1290415M4	4000.000	ng/ml	0.00
Standard Area 1 = 1290415			Recovery = 100.00%			
36) Perylene-d12	7.320	264	1273273	4000.000	ng/ml	0.00
Standard Area 1 = 1272234			Recovery = 100.08%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.612	112	98240	992.733	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.64%			
3) Phenol-d6	2.007	99	119641	993.884	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.69%			
7) Nitrobenzene-d5	2.469	82	100750	1028.352	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 102.84%			
13) 2-Fluorobiphenyl	3.444	172	266066	959.786	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 95.98%			
21) 2,4,6-Tribromophenol	4.261	330	43833	1096.439	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 54.82%			
30) 4-Terphenyl-d14	5.563	244	305635	971.392	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 48.57%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.057	93	103620	946.035	ng/ml	100
5) n-nitrosodi-n-propylamine	2.391	70	73169	1009.605	ng/ml	100
6) Hexachloroethane	2.447	117	45960	983.382	ng/ml	100
9) Naphthalene	2.860	128	345680	935.794	ng/ml#	100
10) Hexachlorobutadiene	2.933	225	61356	966.958	ng/ml	100
11) 2-Methylnaphthalene	3.236	142	231012	985.247	ng/ml	100
12) 1-Methylnaphthalene	3.291	142	213483	975.655	ng/ml	100
14) 2-Chloronaphthalene	3.506	162	233044	978.216	ng/ml	100
15) 2,6-Dinitrotoluene	3.702	165	49447	942.430	ng/ml	100
16) Acenaphthylene	3.739	152	358588	1048.481	ng/ml	100
18) Acenaphthene	3.836	153	248371	948.477	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL8.D
Acq On : 28 Jul 2024 05:23 pm
Operator : SV120:jjw
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1955532,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 16:14:01 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 05 16:14:33 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.928	165	67326	946.468	ng/ml	100
20) Fluorene	4.125	166	279797	964.232	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.155	198	34036	972.101	ng/ml	100
24) Hexachlorobenzene	4.439	284	99817	947.553	ng/ml	100
25) Pentachlorophenol	4.551	266	46912	967.698	ng/ml	100
26) Phenanthrene	4.664	178	428065	959.532	ng/ml	100
27) Anthracene	4.692	178	430465	1000.129	ng/ml	100
28) Fluoranthene	5.340	202	482730	1001.450	ng/ml	100
29) Pyrene	5.467	202	508009	1011.560	ng/ml	100
32) Benzo[a]anthracene	6.175	228	483654	989.451	ng/ml	100
33) 3,3'-Dichlorobenzene	6.163	252	167726	930.993	ng/ml	100
34) Chrysene	6.197	228	457700	975.194	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.205	149	285147	972.697	ng/ml	100
37) Benzo[b]fluoranthene	6.965	252	424786	988.356	ng/ml	100
38) Benzo[k]fluoranthene	6.988	252	444754	1098.350	ng/ml	100
39) Benzo[a]pyrene	7.256	252	375329	1091.955	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.465	276	337867	1049.005	ng/ml	100
41) Dibenzo[a,h]anthracene	8.503	278	331153M6	1095.557	ng/ml	
42) Benzo[g,h,i]perylene	8.792	276	348255M2	1057.800	ng/ml	

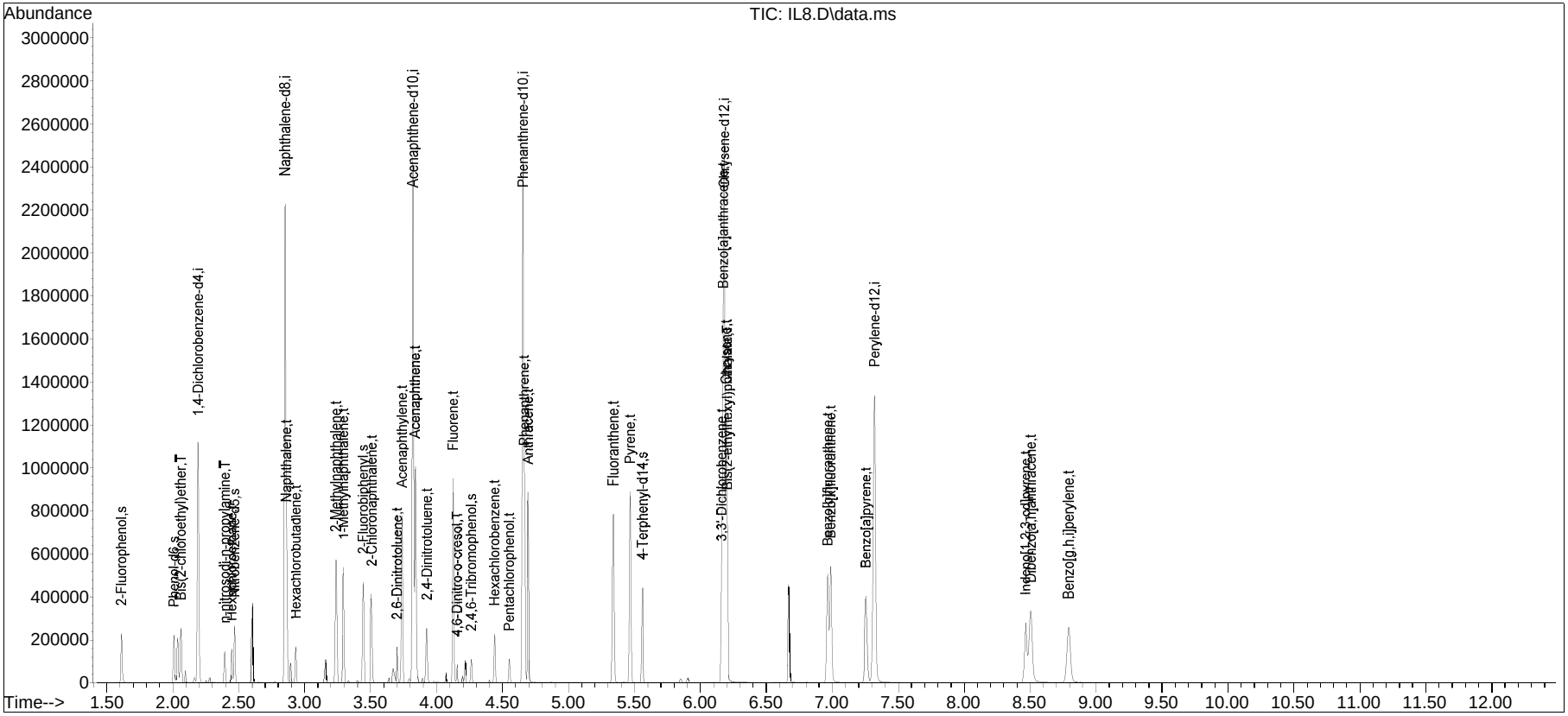
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL8.D
Acq On : 28 Jul 2024 05:23 pm
Operator : SV120:jjw
Sample : IL8,32,,1000.0ng/mL lot# 10888
Misc : WG1955532,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 05 16:14:01 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 05 16:14:33 2024
Response via : Initial Calibration

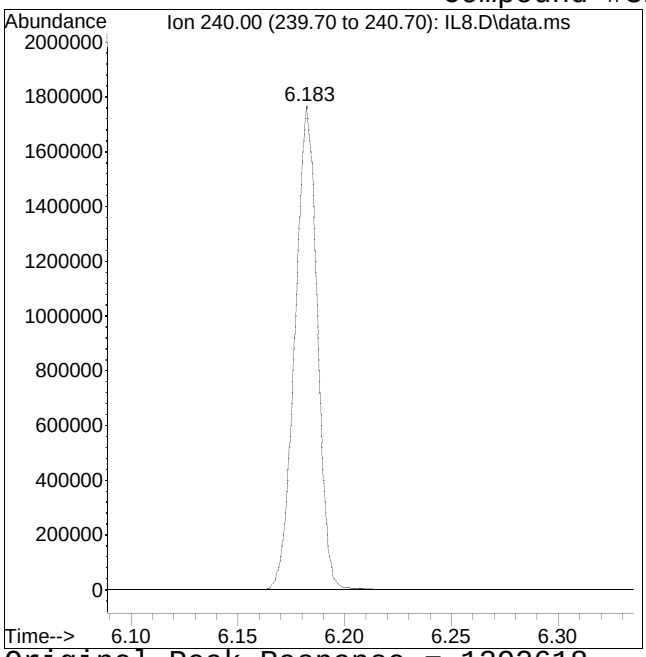
Sub List : Default - All compounds listedical\IL8.D•

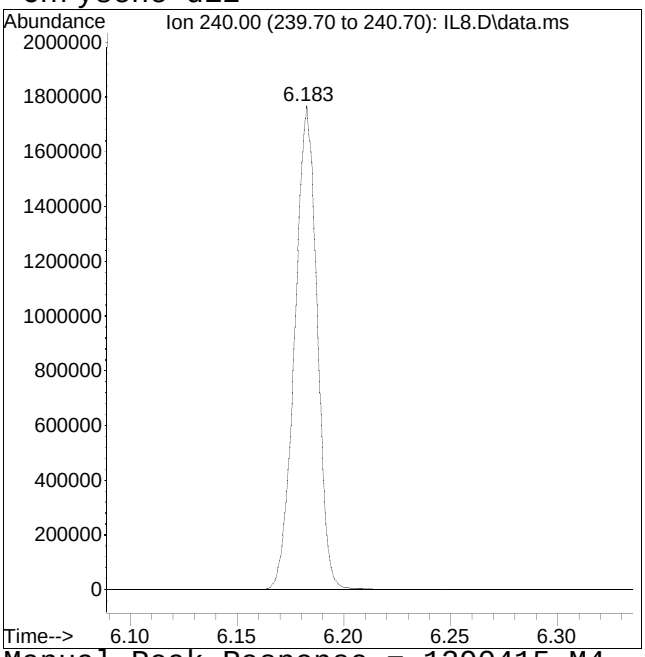


Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQMethod : SIM-RVT_240728_sv120.M
Data File : IL8.D Operator : SV120:jjw
Date Inj'd : 7/28/2024 5:23 pm Instrument : SV120
Sample : IL8,32,,1000.0ng/mL lot# 1Quant Date : 8/5/2024 4:15 pm

Compound #31: Chrysene-d12



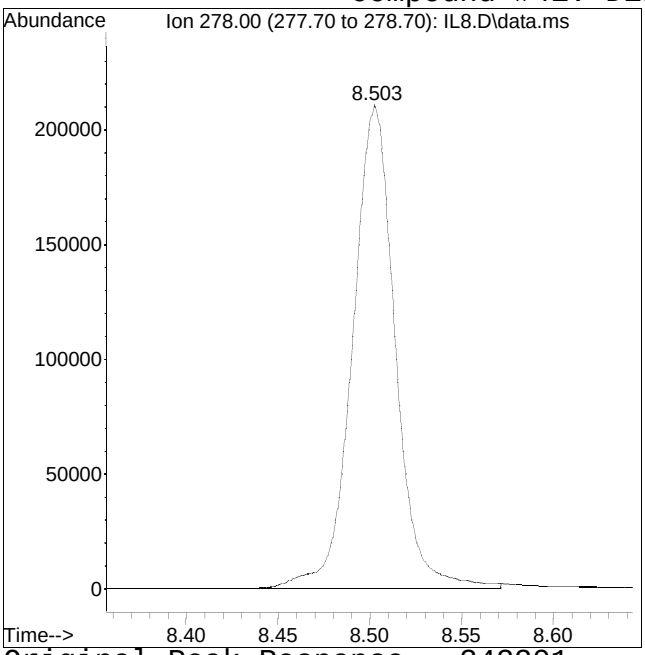


Original Peak Response = 1292618 Manual Peak Response = 1290415 M4
M4 = Poor automated baseline construction.

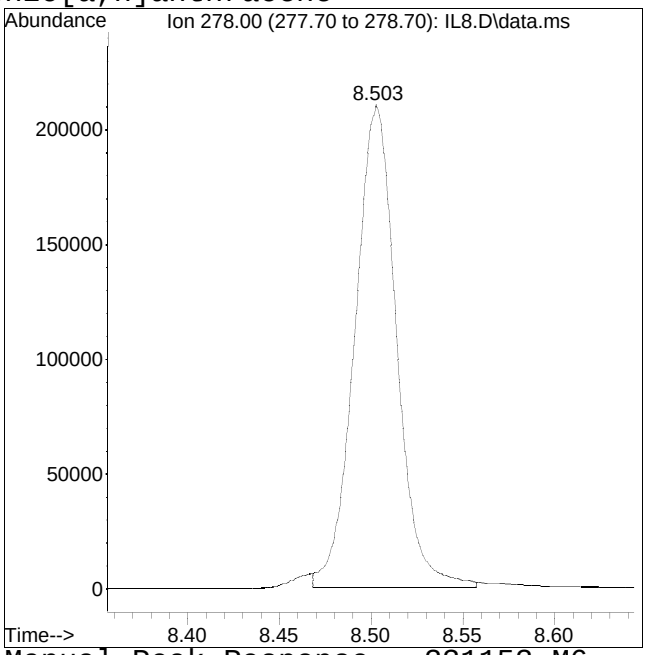
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQMethod : SIM-RVT_240728_sv120.M
Data File : IL8.D Operator : SV120:jjw
Date Inj'd : 7/28/2024 5:23 pm Instrument : SV120
Sample : IL8,32,,1000.0ng/mL lot# 1Quant Date : 8/5/2024 4:15 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 342201



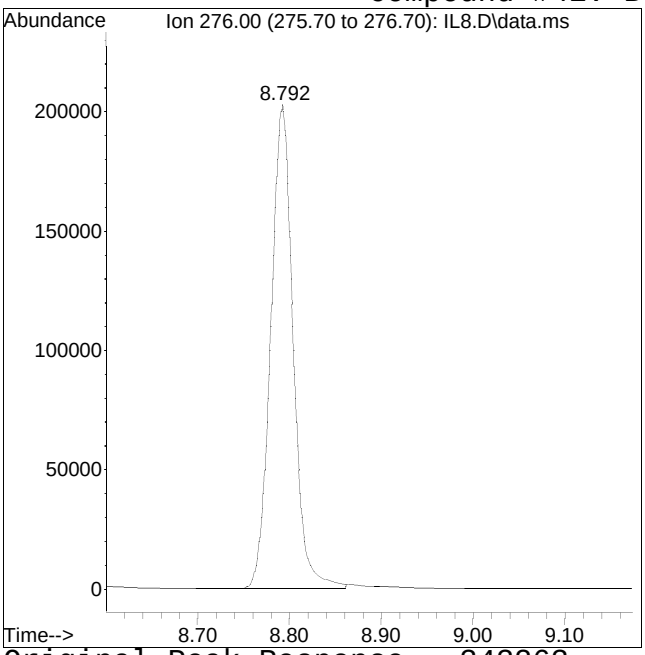
Manual Peak Response = 331153 M6

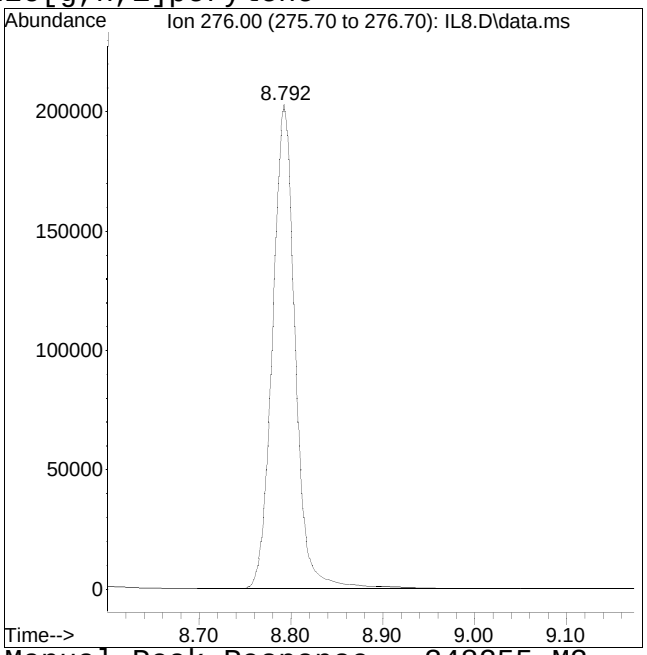
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQMethod : SIM-RVT_240728_sv120.M
Data File : IL8.D Operator : SV120:jjw
Date Inj'd : 7/28/2024 5:23 pm Instrument : SV120
Sample : IL8,32,,1000.0ng/mL lot# 1Quant Date : 8/5/2024 4:15 pm

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 343263 Manual Peak Response = 348255 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL7.D
Acq On : 28 Jul 2024 05:39 pm
Operator : SV120:jjw
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1955532,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 11:53:26 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.192	152	324986	4000.000	ng/ml	0.00
Standard Area 1 = 333135			Recovery = 97.55%			
8) Naphthalene-d8	2.850	136	1243780	4000.000	ng/ml	0.00
Standard Area 1 = 1286400			Recovery = 96.69%			
17) Acenaphthene-d10	3.820	164	691333	4000.000	ng/ml	0.00
Standard Area 1 = 726145			Recovery = 95.21%			
22) Phenanthrene-d10	4.652	188	1463300	4000.000	ng/ml	0.00
Standard Area 1 = 1502374			Recovery = 97.40%			
31) Chrysene-d12	6.182	240	1270880	4000.000	ng/ml	0.00
Standard Area 1 = 1290415			Recovery = 98.49%			
36) Perylene-d12	7.318	264	1234542	4000.000	ng/ml	0.00
Standard Area 1 = 1272234			Recovery = 97.04%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.612	112	48671	504.201	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.21%			
3) Phenol-d6	2.007	99	58940	501.944	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 25.10%			
7) Nitrobenzene-d5	2.471	82	48754	510.148	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 51.01%			
13) 2-Fluorobiphenyl	3.444	172	132919	495.912	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 49.59%			
21) 2,4,6-Tribromophenol	4.262	330	20538	539.607	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 26.98%			
30) 4-Terphenyl-d14	5.563	244	154520	504.221	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 25.21%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.060	93	52584	492.160	ng/ml	99
5) n-nitrosodi-n-propylamine	2.390	70	35168	497.464	ng/ml	99
6) Hexachloroethane	2.448	117	22895	502.195	ng/ml	100
9) Naphthalene	2.860	128	171422	479.960	ng/ml#	100
10) Hexachlorobutadiene	2.935	225	30539	497.781	ng/ml	100
11) 2-Methylnaphthalene	3.237	142	113541	500.836	ng/ml	100
12) 1-Methylnaphthalene	3.292	142	105471	498.538	ng/ml	99
14) 2-Chloronaphthalene	3.507	162	115313	500.619	ng/ml	100
15) 2,6-Dinitrotoluene	3.701	165	22206	449.785	ng/ml	99
16) Acenaphthylene	3.737	152	172763	522.454	ng/ml	100
18) Acenaphthene	3.837	153	122311	490.600	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL7.D
Acq On : 28 Jul 2024 05:39 pm
Operator : SV120:jjw
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1955532,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 11:53:26 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:40 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.926	165	29946	454.979	ng/ml	95
20) Fluorene	4.126	166	137298	496.980	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.154	198	14765	459.324	ng/ml	100
24) Hexachlorobenzene	4.441	284	50420	491.413	ng/ml	99
25) Pentachlorophenol	4.552	266	18571	488.892	ng/ml	100
26) Phenanthrene	4.666	178	216925	499.234	ng/ml	100
27) Anthracene	4.694	178	212339	506.516	ng/ml	100
28) Fluoranthene	5.336	202	240988	513.293	ng/ml	100
29) Pyrene	5.467	202	257393	526.213	ng/ml	100
32) Benzo[a]anthracene	6.175	228	237728	490.115	ng/ml	100
33) 3,3'-Dichlorobenzene	6.163	252	77499	449.367	ng/ml	99
34) Chrysene	6.197	228	240961	521.293	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.205	149	125321	457.232	ng/ml	99
37) Benzo[b]fluoranthene	6.963	252	222557	534.072	ng/ml	100
38) Benzo[k]fluoranthene	6.986	252	205609	523.695	ng/ml	100
39) Benzo[a]pyrene	7.254	252	180472	541.524	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.468	276	159815	511.759	ng/ml	100
41) Dibenzo[a,h]anthracene	8.500	278	156568M6	534.226	ng/ml	
42) Benzo[g,h,i]perylene	8.790	276	166259	522.159	ng/ml	99

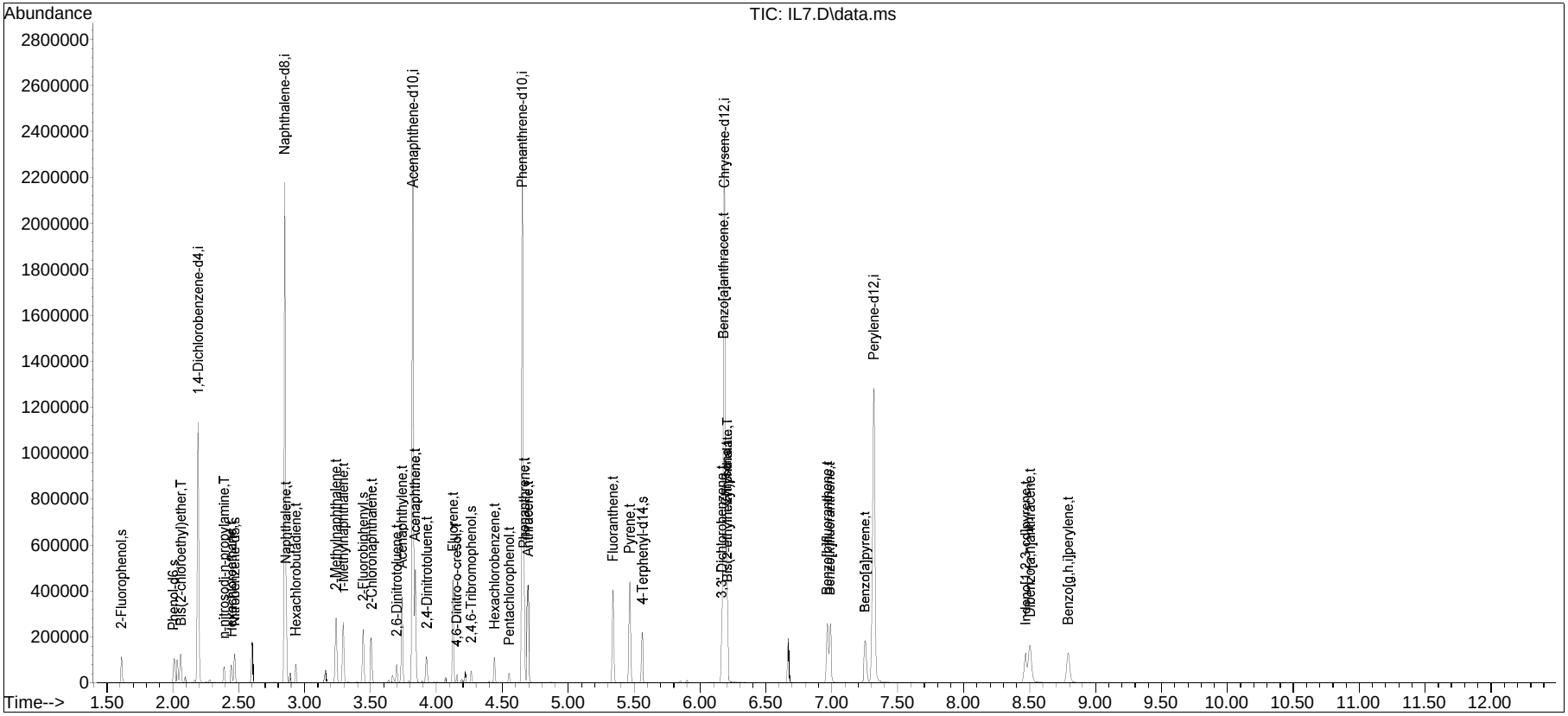
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL7.D
Acq On : 28 Jul 2024 05:39 pm
Operator : SV120:jjw
Sample : IL7,32,,500.0ng/mL lot# 10889
Misc : WG1955532,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 11:53:26 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:40 2024
Response via : Initial Calibration

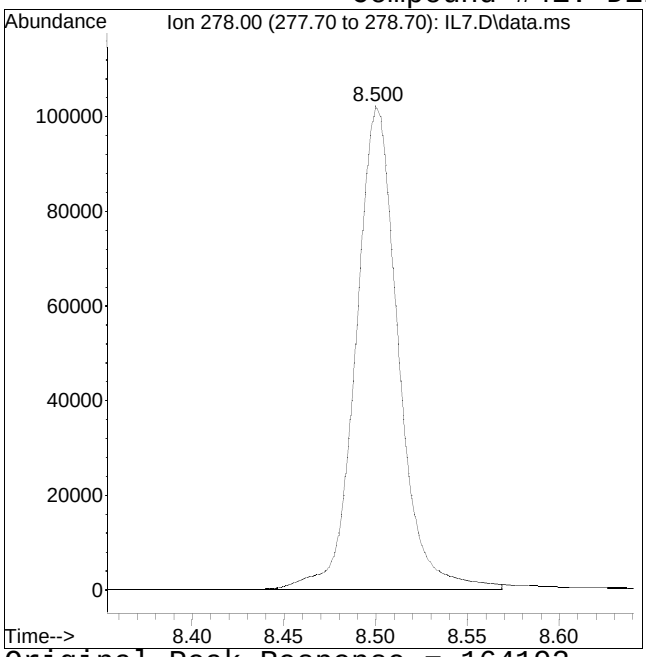
Sub List : Default - All compounds listedical\IL8.D•



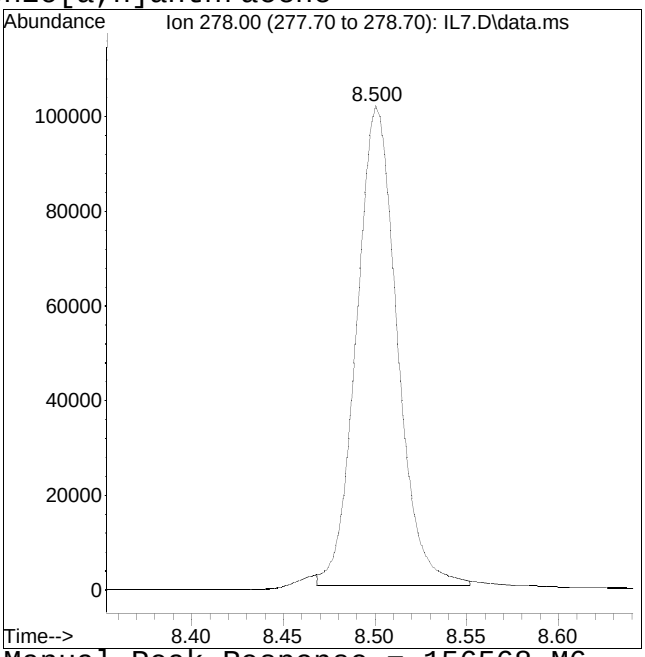
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQMethod : SIM-RVT_240728_sv120.M
Data File : IL7.D Operator : SV120:jjw
Date Inj'd : 7/28/2024 5:39 pm Instrument : SV120
Sample : IL7,32,,500.0ng/mL lot# 10Quant Date : 7/29/2024 11:54 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 164192



Manual Peak Response = 156568 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL6.D
Acq On : 28 Jul 2024 05:55 pm
Operator : SV120:jjw
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1955532,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 11:53:18 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.193	152	338675	4000.000	ng/ml	0.00
Standard Area 1 = 333135			Recovery = 101.66%			
8) Naphthalene-d8	2.851	136	1284580	4000.000	ng/ml	0.00
Standard Area 1 = 1286400			Recovery = 99.86%			
17) Acenaphthene-d10	3.821	164	706682	4000.000	ng/ml	0.00
Standard Area 1 = 726145			Recovery = 97.32%			
22) Phenanthrene-d10	4.653	188	1504560	4000.000	ng/ml	0.00
Standard Area 1 = 1502374			Recovery = 100.15%			
31) Chrysene-d12	6.181	240	1323134	4000.000	ng/ml	0.00
Standard Area 1 = 1290415			Recovery = 102.54%			
36) Perylene-d12	7.321	264	1243909	4000.000	ng/ml	0.00
Standard Area 1 = 1272234			Recovery = 97.77%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.612	112	10219	101.584	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 5.08%#			
3) Phenol-d6	2.007	99	12198	99.682	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.98%#			
7) Nitrobenzene-d5	2.470	82	9914	99.544	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 9.95%#			
13) 2-Fluorobiphenyl	3.446	172	28226	101.965	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 10.20%#			
21) 2,4,6-Tribromophenol	4.262	330	3622	93.096	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 4.65%#			
30) 4-Terphenyl-d14	5.560	244	31416	99.704	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 4.99%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.060	93	10937	98.227	ng/ml	98
5) n-nitrosodi-n-propylamine	2.392	70	7075	96.033	ng/ml	98
6) Hexachloroethane	2.448	117	4795	100.926	ng/ml	100
9) Naphthalene	2.861	128	36212	98.169	ng/ml#	100
10) Hexachlorobutadiene	2.933	225	6494	102.489	ng/ml	99
11) 2-Methylnaphthalene	3.239	142	23565	100.645	ng/ml	99
12) 1-Methylnaphthalene	3.290	142	21986	100.622	ng/ml	99
14) 2-Chloronaphthalene	3.505	162	24023	100.981	ng/ml	100
15) 2,6-Dinitrotoluene	3.701	165	3772	92.775	ng/ml	95
16) Acenaphthylene	3.738	152	33711	98.708	ng/ml	99
18) Acenaphthene	3.838	153	25498	100.053	ng/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL6.D
Acq On : 28 Jul 2024 05:55 pm
Operator : SV120:jjw
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1955532,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 11:53:18 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:32 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.927	165	4830	92.022	ng/ml#	85
20) Fluorene	4.125	166	27543	97.532	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.155	198	2073	89.468	ng/ml	100
24) Hexachlorobenzene	4.441	284	10511	99.635	ng/ml	99
25) Pentachlorophenol	4.550	266	2324	73.620	ng/ml	100
26) Phenanthrene	4.664	178	45543	101.939	ng/ml	96
27) Anthracene	4.694	178	42834	99.375	ng/ml	99
28) Fluoranthene	5.337	202	48470	100.408	ng/ml	100
29) Pyrene	5.465	202	50624	100.657	ng/ml	100
32) Benzo[a]anthracene	6.174	228	50032	93.183	ng/ml	98
33) 3,3'-Dichlorobenzene	6.161	252	13107	92.851	ng/ml#	98
34) Chrysene	6.196	228	49175	102.183	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.203	149	19130	88.799	ng/ml	98
37) Benzo[b]fluoranthene	6.963	252	41970	99.957	ng/ml	99
38) Benzo[k]fluoranthene	6.985	252	37342	94.395	ng/ml	100
39) Benzo[a]pyrene	7.253	252	31881	94.942	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.463	276	28650	91.052	ng/ml	99
41) Dibenzo[a,h]anthracene	8.501	278	27990M6	94.786	ng/ml	
42) Benzo[g,h,i]perylene	8.787	276	30866	96.209	ng/ml	99

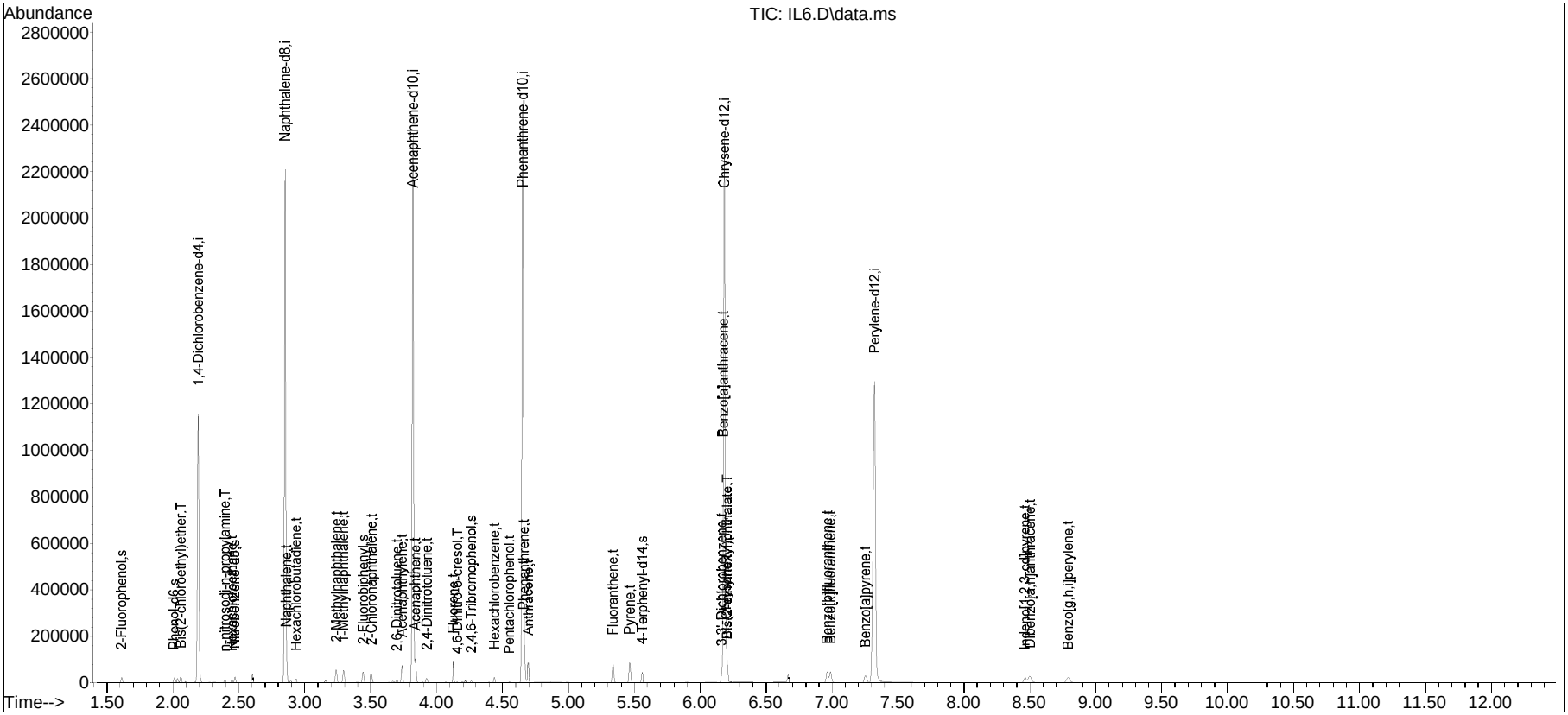
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL6.D
Acq On : 28 Jul 2024 05:55 pm
Operator : SV120:jjw
Sample : IL6,32,,100.0ng/mL lot# 10899
Misc : WG1955532,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 11:53:18 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:32 2024
Response via : Initial Calibration

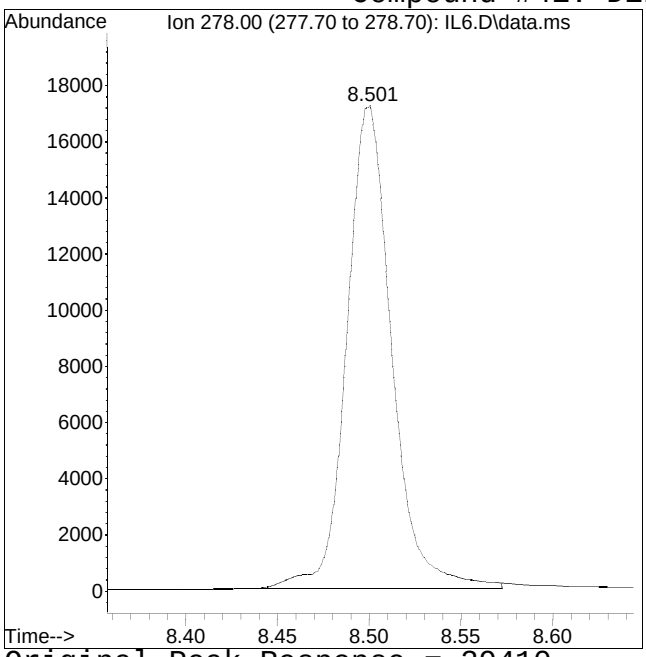
Sub List : Default - All compounds listedical\IL8.D•



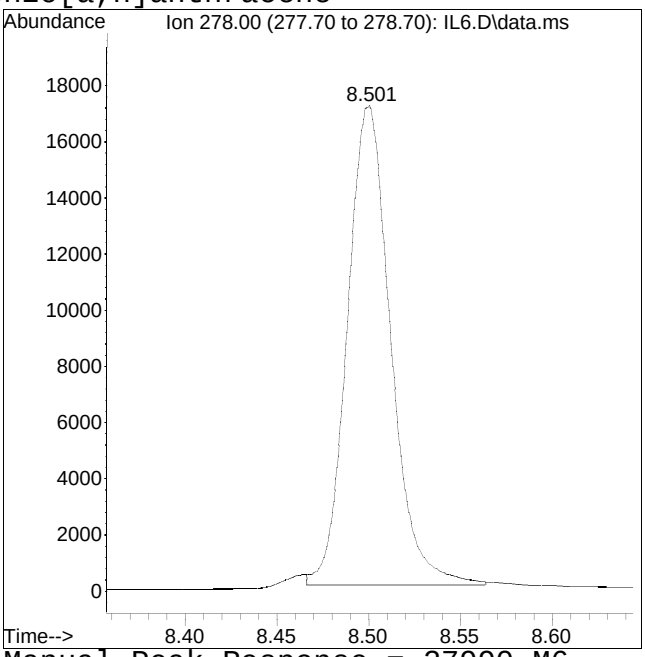
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQMethod : SIM-RVT_240728_sv120.M
Data File : IL6.D Operator : SV120:jjw
Date Inj'd : 7/28/2024 5:55 pm Instrument : SV120
Sample : IL6,32,,100.0ng/mL lot# 10Quant Date : 7/29/2024 11:54 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 29410



Manual Peak Response = 27990 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL5.D
Acq On : 28 Jul 2024 06:11 pm
Operator : SV120:jjw
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1955532,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 11:53:10 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.192	152	329744	4000.000	ng/ml	0.00
Standard Area 1 = 333135			Recovery = 98.98%			
8) Naphthalene-d8	2.850	136	1246552	4000.000	ng/ml	0.00
Standard Area 1 = 1286400			Recovery = 96.90%			
17) Acenaphthene-d10	3.820	164	683171	4000.000	ng/ml	0.00
Standard Area 1 = 726145			Recovery = 94.08%			
22) Phenanthrene-d10	4.652	188	1443620	4000.000	ng/ml	0.00
Standard Area 1 = 1502374			Recovery = 96.09%			
31) Chrysene-d12	6.180	240	1283010	4000.000	ng/ml	0.00
Standard Area 1 = 1290415			Recovery = 99.43%			
36) Perylene-d12	7.315	264	1186606	4000.000	ng/ml	0.00
Standard Area 1 = 1272234			Recovery = 93.27%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.612	112	3851	39.318	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.97%#			
3) Phenol-d6	2.010	99	4594	38.559	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.93%#			
7) Nitrobenzene-d5	2.471	82	3686	38.013	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.80%#			
13) 2-Fluorobiphenyl	3.444	172	10651	39.650	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 3.96%#			
21) 2,4,6-Tribromophenol	4.262	330	1219	32.410	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 1.62%#			
30) 4-Terphenyl-d14	5.562	244	11759	38.894	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 1.94%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.060	93	4219	38.918	ng/ml	100
5) n-nitrosodi-n-propylamine	2.393	70	2636	36.749	ng/ml	99
6) Hexachloroethane	2.449	117	1816	39.259	ng/ml	99
9) Naphthalene	2.862	128	13843	38.672	ng/ml#	98
10) Hexachlorobutadiene	2.935	225	2490	40.496	ng/ml	100
11) 2-Methylnaphthalene	3.237	142	8922	39.268	ng/ml	99
12) 1-Methylnaphthalene	3.292	142	8401	39.621	ng/ml	99
14) 2-Chloronaphthalene	3.507	162	9045	39.181	ng/ml	100
15) 2,6-Dinitrotoluene	3.701	165	1318	47.804	ng/ml	96
16) Acenaphthylene	3.737	152	12500	37.717	ng/ml	100
18) Acenaphthene	3.837	153	9777	39.685	ng/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL5.D
Acq On : 28 Jul 2024 06:11 pm
Operator : SV120:jjw
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1955532,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 11:53:10 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:24 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.926	165	1628	47.731	ng/ml#	79
20) Fluorene	4.126	166	10216	37.421	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.156	198	578	47.181	ng/ml	93
24) Hexachlorobenzene	4.441	284	3897	38.499	ng/ml	98
25) Pentachlorophenol	4.552	266	529	24.405	ng/ml	96
26) Phenanthrene	4.666	178	17679	41.241	ng/ml#	89
27) Anthracene	4.694	178	16036	38.774	ng/ml	99
28) Fluoranthene	5.339	202	18085	39.045	ng/ml	99
29) Pyrene	5.467	202	18773	38.903	ng/ml	100
32) Benzo[a]anthracene	6.173	228	21191	36.542	ng/ml	95
33) 3,3'-Dichlorobenzene	6.161	252	4567	48.551	ng/ml#	98
34) Chrysene	6.193	228	18442	39.520	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.203	149	6677	47.532	ng/ml	99
37) Benzo[b]fluoranthene	6.960	252	14930	37.275	ng/ml	100
38) Benzo[k]fluoranthene	6.983	252	13559	35.931	ng/ml	99
39) Benzo[a]pyrene	7.251	252	11260	35.152	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.463	276	10362	34.522	ng/ml	98
41) Dibenzo[a,h]anthracene	8.498	278	9589M6	34.040	ng/ml	
42) Benzo[g,h,i]perylene	8.787	276	10892	35.590	ng/ml	100

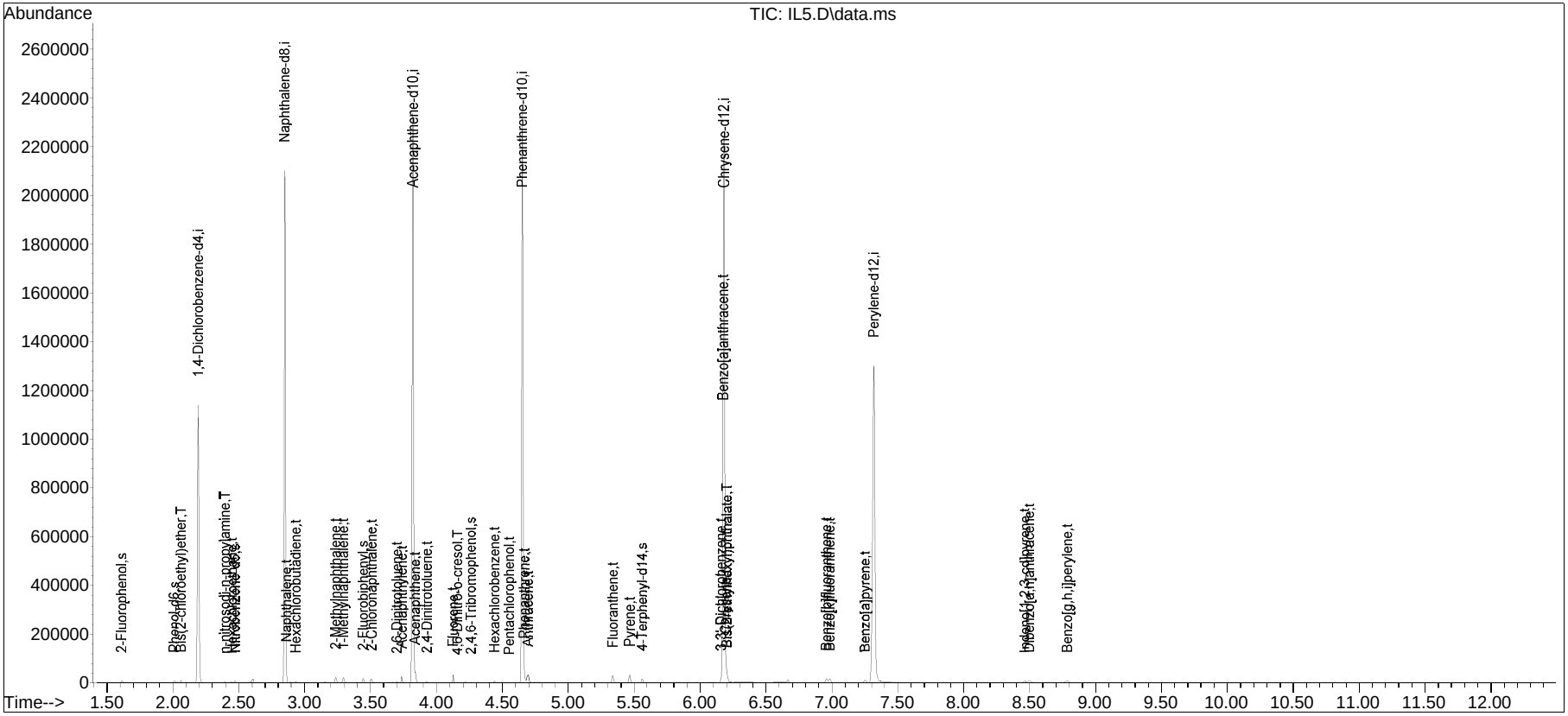
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL5.D
Acq On : 28 Jul 2024 06:11 pm
Operator : SV120:jjw
Sample : IL5,32,,40.0ng/mL lot# 10891
Misc : WG1955532,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 11:53:10 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:24 2024
Response via : Initial Calibration

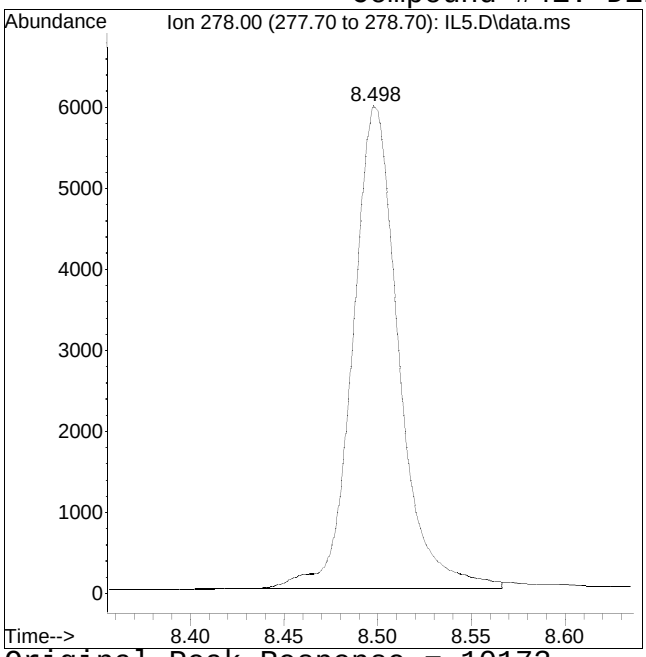
Sub List : Default - All compounds listedical\IL8.D•



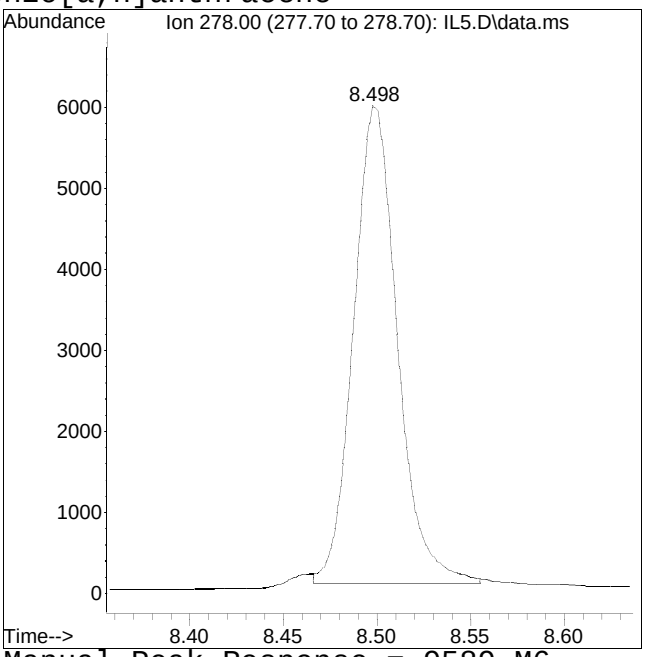
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQMethod : SIM-RVT_240728_sv120.M
Data File : IL5.D Operator : SV120:jjw
Date Inj'd : 7/28/2024 6:11 pm Instrument : SV120
Sample : IL5,32,,40.0ng/mL lot# 108Quant Date : 7/29/2024 11:54 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 10173



Manual Peak Response = 9589 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL4.D
Acq On : 28 Jul 2024 06:27 pm
Operator : SV120:jjw
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1955532,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 15:30:05 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 12:00:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.192	152	319365	4000.000	ng/ml	0.00
Standard Area 1 = 333135			Recovery = 95.87%			
8) Naphthalene-d8	2.852	136	1195241	4000.000	ng/ml	0.00
Standard Area 1 = 1286400			Recovery = 92.91%			
17) Acenaphthene-d10	3.820	164	653024	4000.000	ng/ml	0.00
Standard Area 1 = 726145			Recovery = 89.93%			
22) Phenanthrene-d10	4.654	188	1376894	4000.000	ng/ml	0.00
Standard Area 1 = 1502374			Recovery = 91.65%			
31) Chrysene-d12	6.181	240	1211639	4000.000	ng/ml	0.00
Standard Area 1 = 1290415			Recovery = 93.90%			
36) Perylene-d12	7.318	264	1105349	4000.000	ng/ml	0.00
Standard Area 1 = 1272234			Recovery = 86.88%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.614	112	942	9.930	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.50%#			
3) Phenol-d6	2.010	99	1127	9.767	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.49%#			
7) Nitrobenzene-d5	2.470	82	890	9.477	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.95%#			
13) 2-Fluorobiphenyl	3.444	172	2602	10.102	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 1.01%#			
21) 2,4,6-Tribromophenol	4.261	330	275	7.649	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.38%#			
30) 4-Terphenyl-d14	5.560	244	2901	10.060	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.50%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.059	93	1046	9.962	ng/ml	99
5) n-nitrosodi-n-propylamine	2.393	70	654	9.414	ng/ml	100
6) Hexachloroethane	2.448	117	451	10.067	ng/ml	99
9) Naphthalene	2.862	128	3525	10.270	ng/ml#	92
10) Hexachlorobutadiene	2.935	225	622	10.550	ng/ml	98
11) 2-Methylnaphthalene	3.237	142	2202	10.108	ng/ml	99
12) 1-Methylnaphthalene	3.291	142	2052	10.093	ng/ml	99
14) 2-Chloronaphthalene	3.506	162	2224	10.047	ng/ml	99
15) 2,6-Dinitrotoluene	3.703	165	316	28.827	ng/ml	92
16) Acenaphthylene	3.739	152	3014	9.485	ng/ml	99
18) Acenaphthene	3.836	153	2503	10.629	ng/ml	88

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL4.D
Acq On : 28 Jul 2024 06:27 pm
Operator : SV120:jjw
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1955532,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 15:30:05 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 12:00:29 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.928	165	375	29.736	ng/ml#	79
20) Fluorene	4.126	166	2525	9.676	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.158	198	109M7	33.248	ng/ml	
24) Hexachlorobenzene	4.440	284	961	9.954	ng/ml	99
25) Pentachlorophenol	4.554	266	241	18.433	ng/ml	96
26) Phenanthrene	4.665	178	4340M6	10.615	ng/ml	
27) Anthracene	4.693	178	4000	10.140	ng/ml	100
28) Fluoranthene	5.337	202	4503	10.193	ng/ml	100
29) Pyrene	5.468	202	4563	9.914	ng/ml	100
32) Benzo[a]anthracene	6.178	228	8098	10.389	ng/ml#	83
33) 3,3'-Dichlorobenzene	6.161	252	998	29.453	ng/ml#	1
34) Chrysene	6.196	228	4380	9.939	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.205	149	1622	30.248	ng/ml	100
37) Benzo[b]fluoranthene	6.963	252	3387	9.078	ng/ml	96
38) Benzo[k]fluoranthene	6.986	252	3376	9.604	ng/ml	96
39) Benzo[a]pyrene	7.254	252	2622	8.787	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.466	276	2456	8.784	ng/ml	99
41) Dibenzo[a,h]anthracene	8.503	278	2209M6	8.418	ng/ml	
42) Benzo[g,h,i]perylene	8.790	276	2558	8.973	ng/ml	100

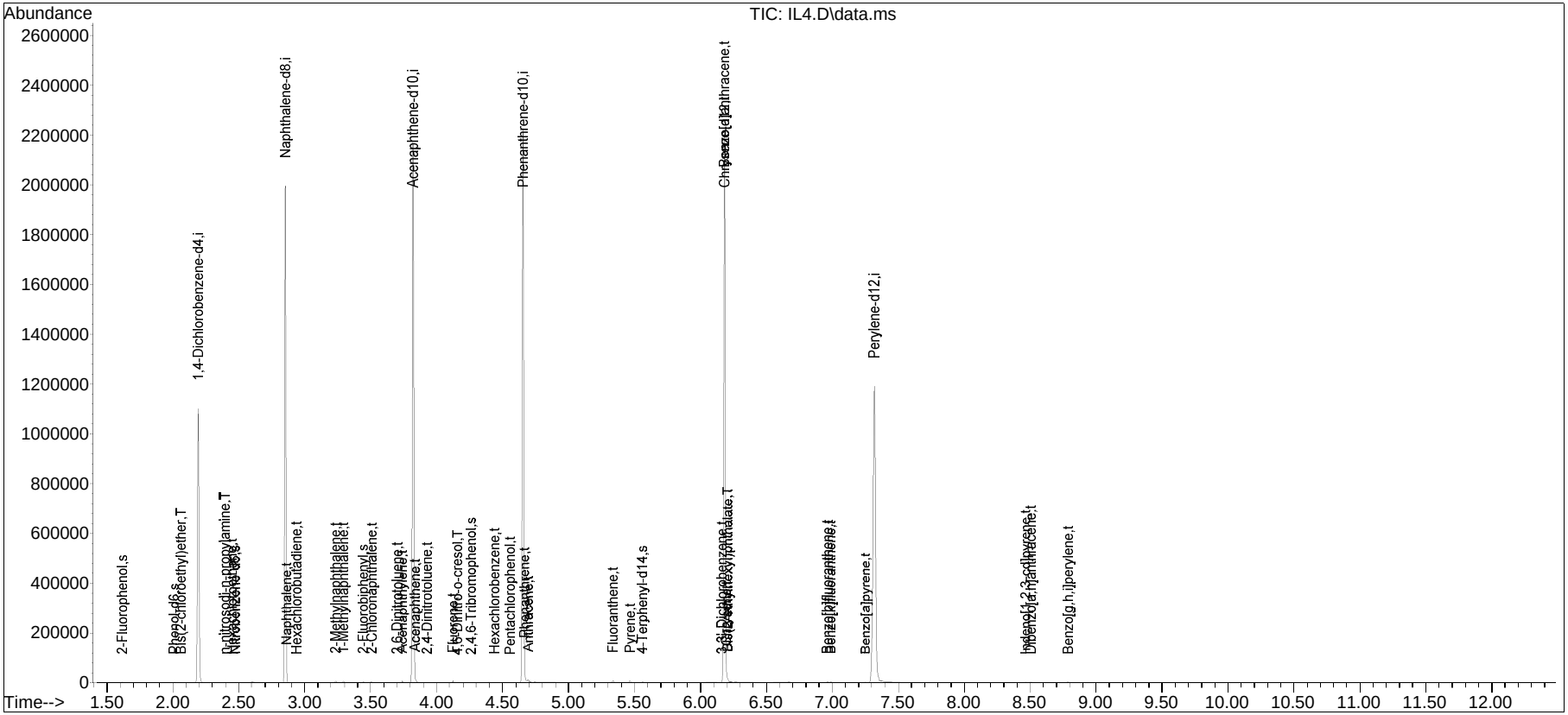
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL4.D
Acq On : 28 Jul 2024 06:27 pm
Operator : SV120:jjw
Sample : IL4,32,,10.0ng/mL lot#10892
Misc : WG1955532,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 15:30:05 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 12:00:29 2024
Response via : Initial Calibration

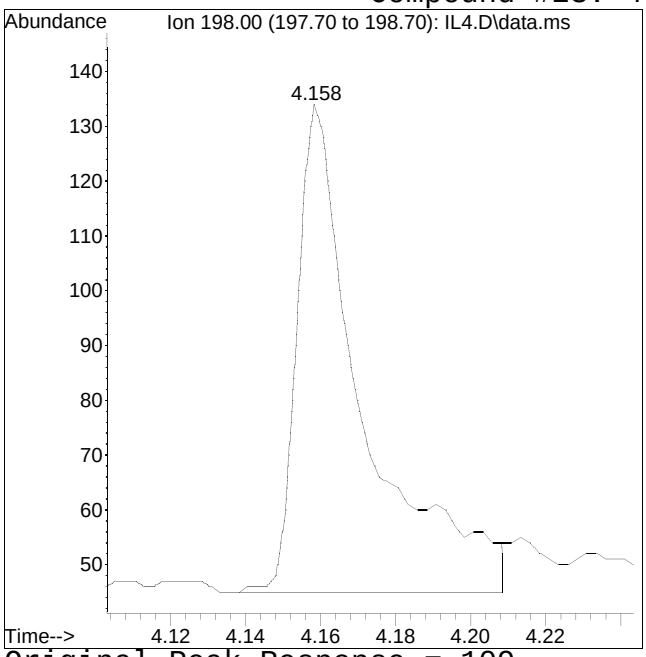
Sub List : Default - All compounds listedical\IL8.D•



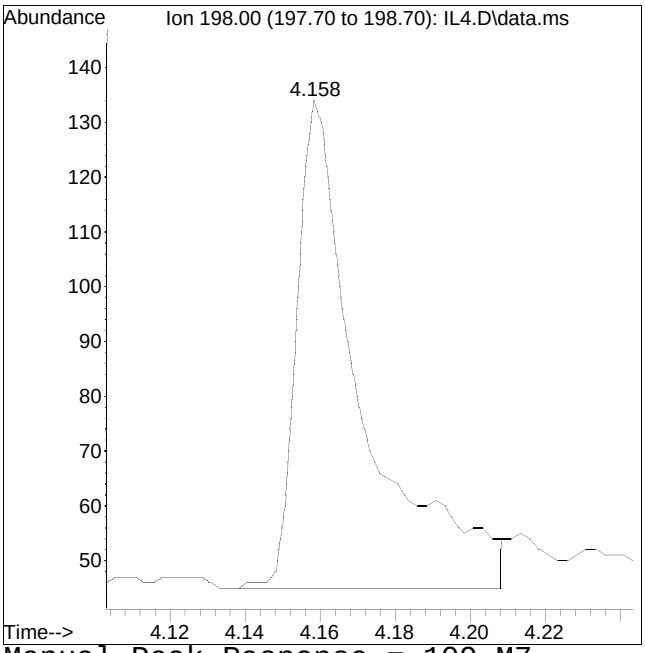
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL4.D
Date Inj'd : 7/28/2024 6:27 pm
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 12:00 pm

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 109



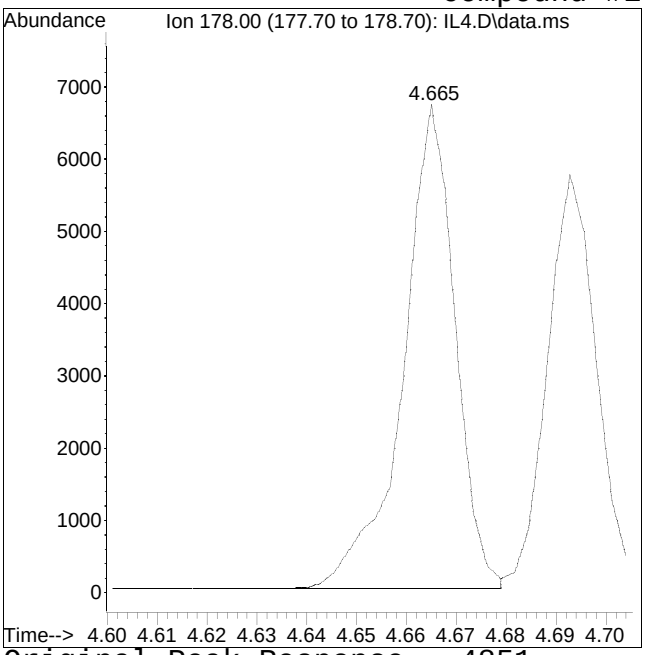
Manual Peak Response = 109 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

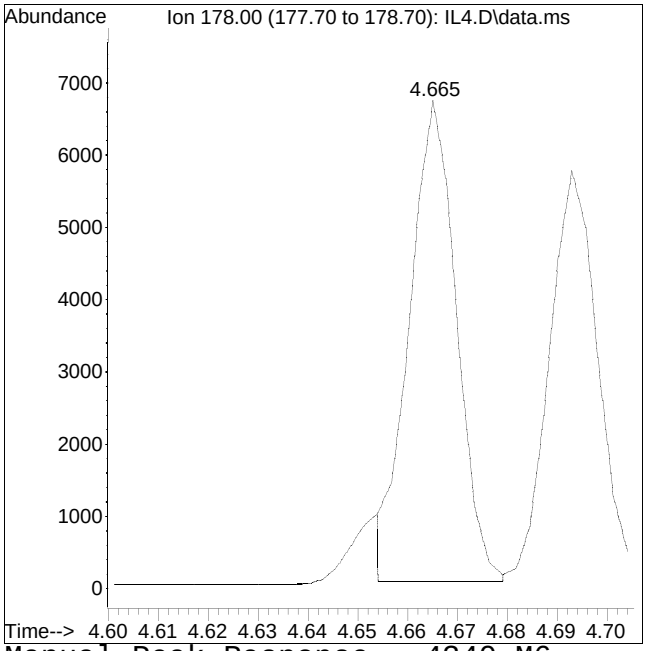
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL4.D
Date Inj'd : 7/28/2024 6:27 pm
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 12:00 pm

Compound #26: Phenanthrene



Original Peak Response = 4851



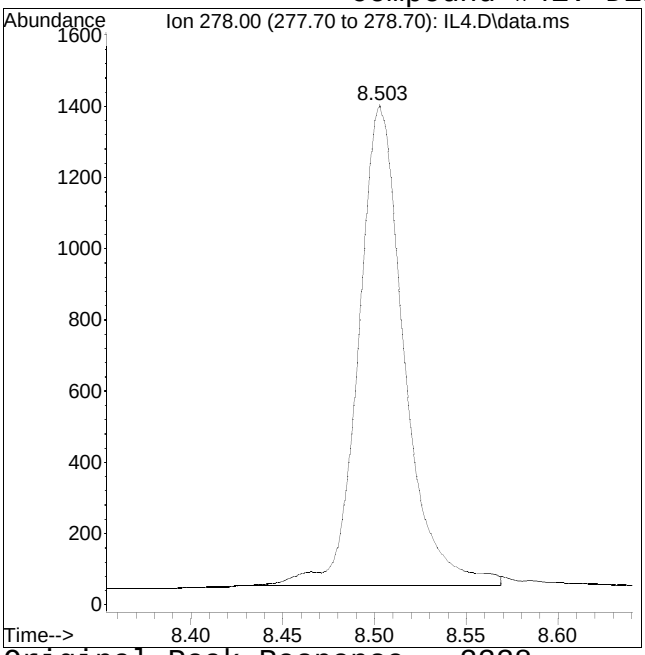
Manual Peak Response = 4340 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

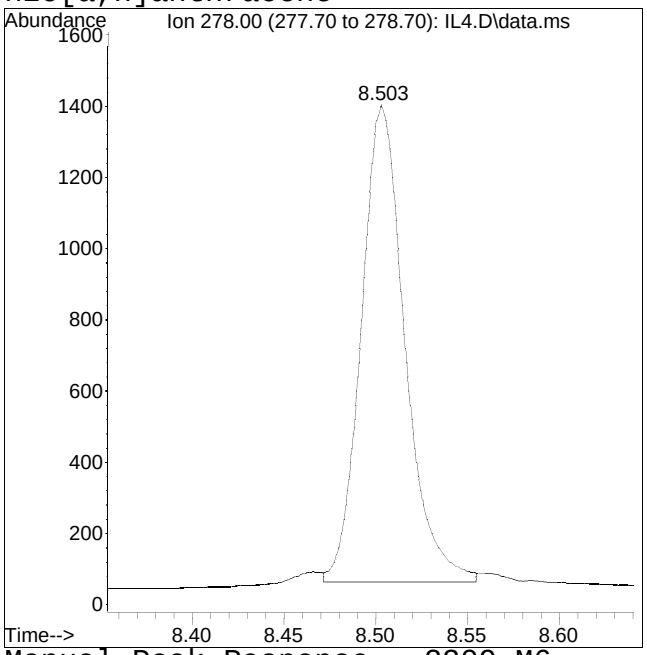
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL4.D
Date Inj'd : 7/28/2024 6:27 pm
Sample : IL4,32,,10.0ng/mL lot#1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 12:00 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 2338



Manual Peak Response = 2209 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL3.D
Acq On : 28 Jul 2024 06:43 pm
Operator : SV120:jjw
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1955532,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 15:26:30 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.192	152	340562	4000.000 ng/ml	0.00
Standard Area 1 = 333135			Recovery	= 102.23%	
8) Naphthalene-d8	2.850	136	1281411	4000.000 ng/ml	0.00
Standard Area 1 = 1286400			Recovery	= 99.61%	
17) Acenaphthene-d10	3.820	164	695923	4000.000 ng/ml	0.00
Standard Area 1 = 726145			Recovery	= 95.84%	
22) Phenanthrene-d10	4.655	188	1467517	4000.000 ng/ml	0.00
Standard Area 1 = 1502374			Recovery	= 97.68%	
31) Chrysene-d12	6.182	240	1280040	4000.000 ng/ml	0.00
Standard Area 1 = 1290415			Recovery	= 99.20%	
36) Perylene-d12	7.320	264	1162330	4000.000 ng/ml	0.00
Standard Area 1 = 1272234			Recovery	= 91.36%	
System Monitoring Compounds					
2) 2-Fluorophenol	1.612	112	507	5.012 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.25%#	
3) Phenol-d6	2.010	99	593	4.819 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.24%#	
7) Nitrobenzene-d5	2.471	82	478	4.773 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 0.48%#	
13) 2-Fluorobiphenyl	3.444	172	1393	5.045 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 0.50%#	
21) 2,4,6-Tribromophenol	4.262	330	148	3.863 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.19%#	
30) 4-Terphenyl-d14	5.561	244	1570	5.108 ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 0.26%#	
Target Compounds					Qvalue
4) Bis(2-chloroethyl)ether	2.059	93	576M6	5.145 ng/ml	
5) n-nitrosodi-n-propylamine	2.393	70	358	4.832 ng/ml	98
6) Hexachloroethane	2.449	117	250	5.233 ng/ml	97
9) Naphthalene	2.862	128	1910	5.191 ng/ml#	84
10) Hexachlorobutadiene	2.935	225	333	5.268 ng/ml	94
11) 2-Methylnaphthalene	3.237	142	1168	5.001 ng/ml	96
12) 1-Methylnaphthalene	3.292	142	1086	4.983 ng/ml	97
14) 2-Chloronaphthalene	3.507	162	1193	5.027 ng/ml	98
15) 2,6-Dinitrotoluene	0.000		0	N.D. d	
16) Acenaphthylene	3.737	152	1628	4.779 ng/ml	99
18) Acenaphthene	3.837	153	1274M6	5.076 ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL3.D
Acq On : 28 Jul 2024 06:43 pm
Operator : SV120:jjw
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1955532,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 15:26:30 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:08 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
20) Fluorene	4.127	166	1367	4.916	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.441	284	507	4.927	ng/ml	98
25) Pentachlorophenol	4.555	266	137M6	12.814	ng/ml	
26) Phenanthrene	4.666	178	2279M6	5.230	ng/ml	
27) Anthracene	4.694	178	2178	5.180	ng/ml	100
28) Fluoranthene	5.338	202	2437	5.176	ng/ml	100
29) Pyrene	5.465	202	2493	5.082	ng/ml	99
32) Benzo[a]anthracene	6.179	228	6289M4	5.681	ng/ml	
33) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
34) Chrysene	6.194	228	2331	5.007	ng/ml	96
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	6.962	252	1878	4.787	ng/ml	100
38) Benzo[k]fluoranthene	6.984	252	1716	4.642	ng/ml	100
39) Benzo[a]pyrene	7.256	252	1367	4.357	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.465	276	1275	4.336	ng/ml	99
41) Dibenzo[a,h]anthracene	8.505	278	1128	4.088	ng/ml	100
42) Benzo[g,h,i]perylene	8.789	276	1327	4.427	ng/ml	100

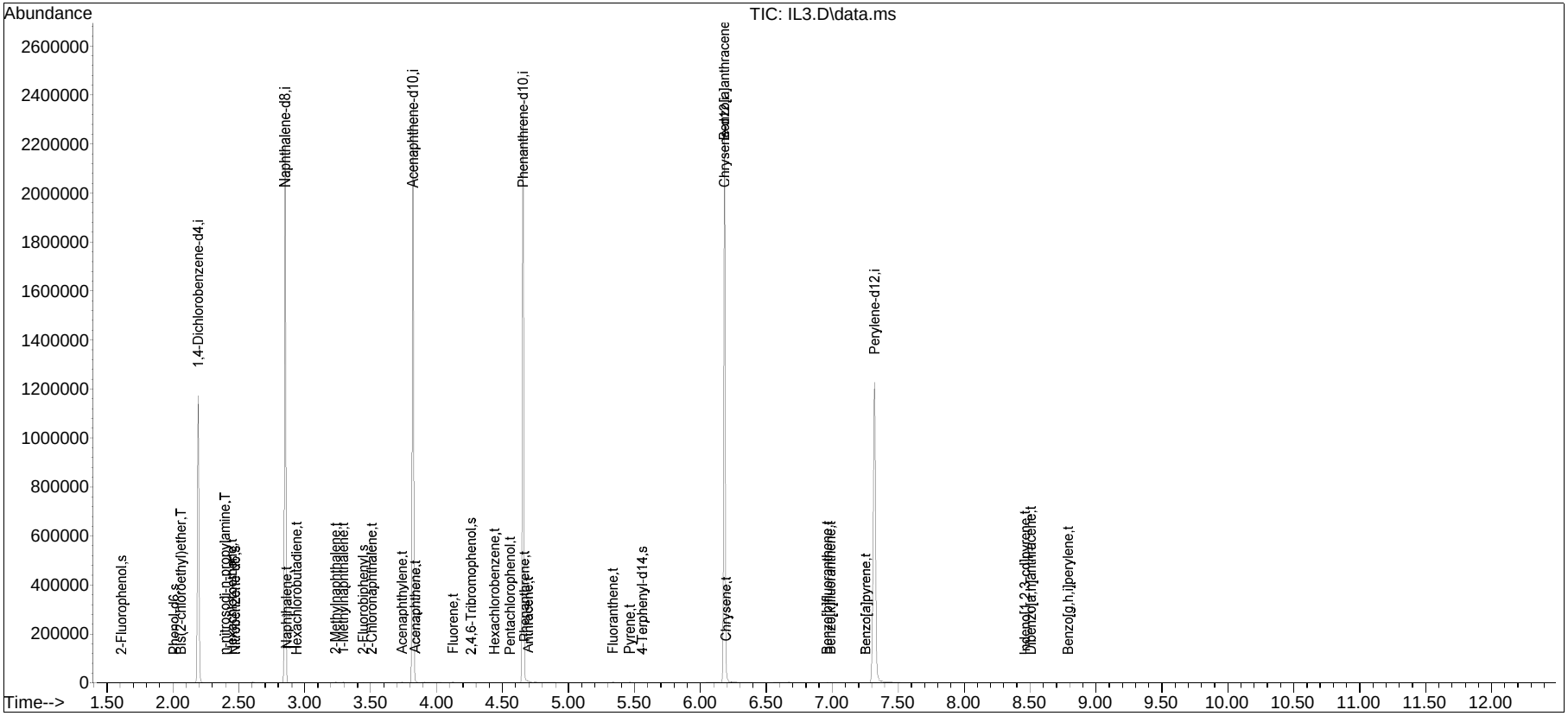
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL3.D
Acq On : 28 Jul 2024 06:43 pm
Operator : SV120:jjw
Sample : IL3,32,,5.0ng/mL lot# 10893
Misc : WG1955532,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 15:26:30 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:54:08 2024
Response via : Initial Calibration

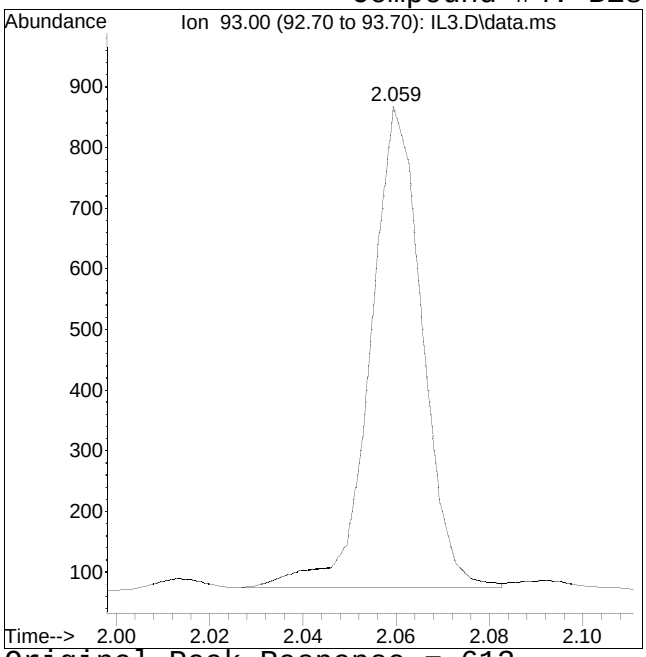
Sub List : Default - All compounds listedical\IL8.D•



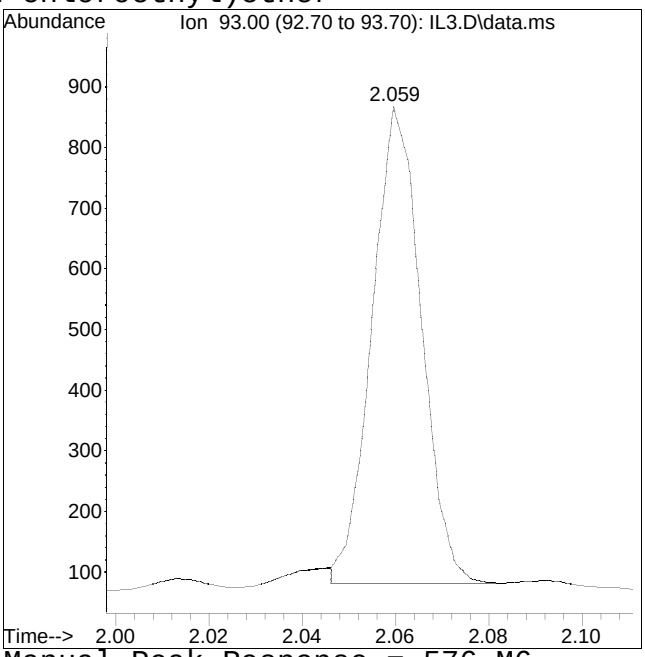
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL3.D
Date Inj'd : 7/28/2024 6:43 pm
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:54 am

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 613



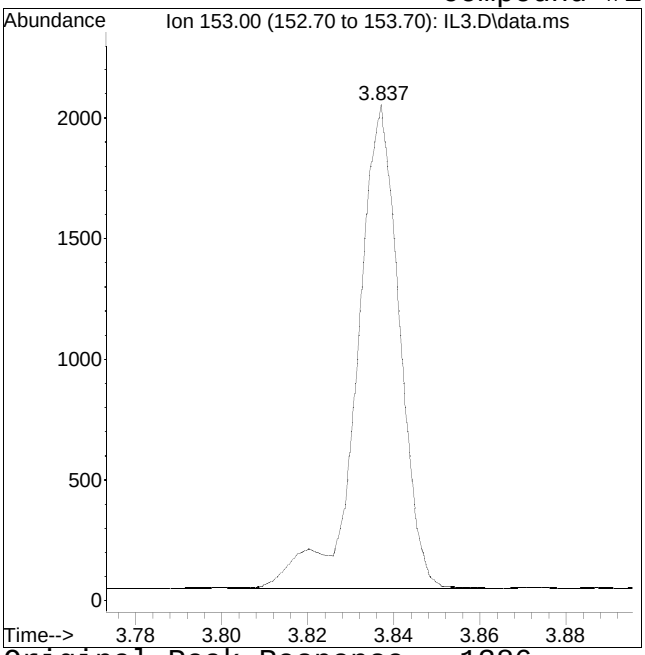
Manual Peak Response = 576 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

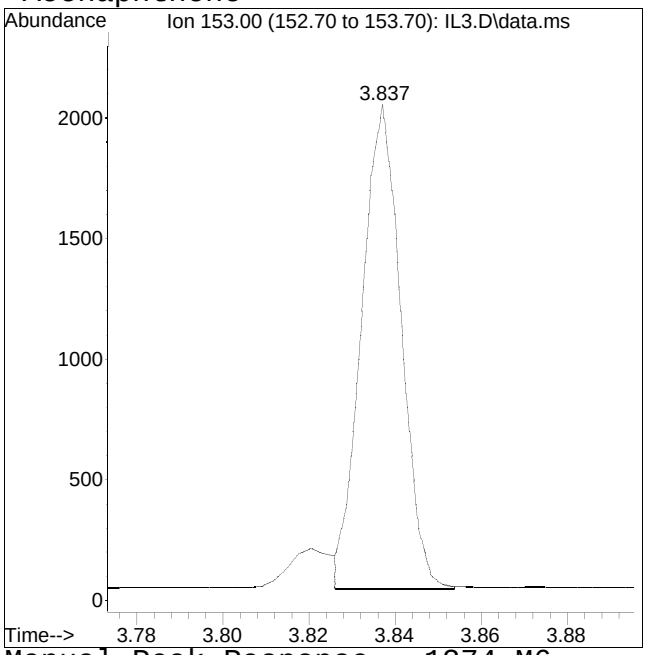
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL3.D
Date Inj'd : 7/28/2024 6:43 pm
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:54 am

Compound #18: Acenaphthene



Original Peak Response = 1386



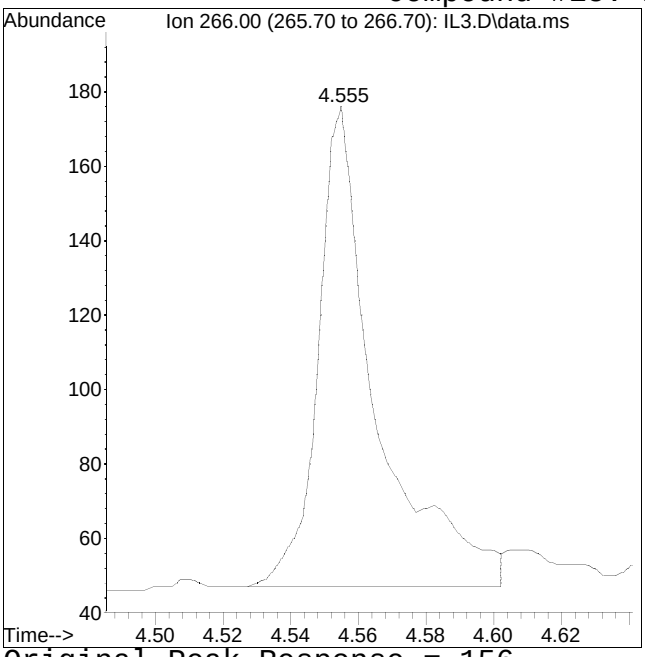
Manual Peak Response = 1274 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

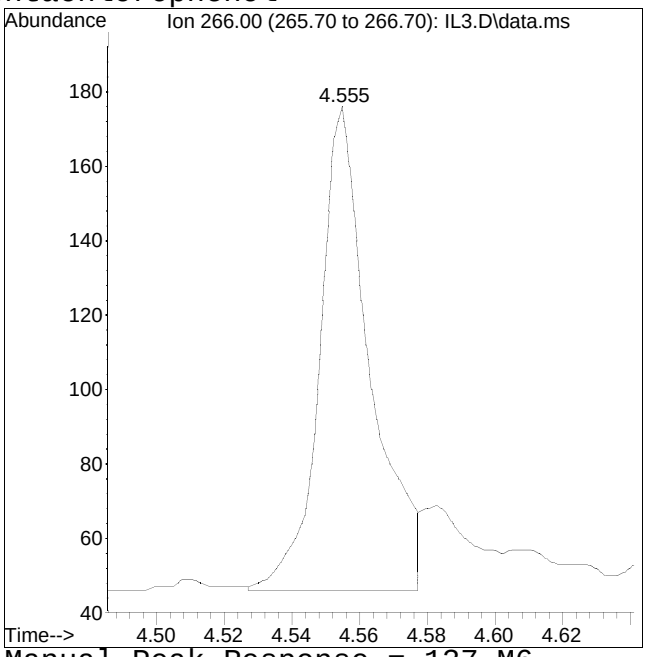
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL3.D
Date Inj'd : 7/28/2024 6:43 pm
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:54 am

Compound #25: Pentachlorophenol



Original Peak Response = 156



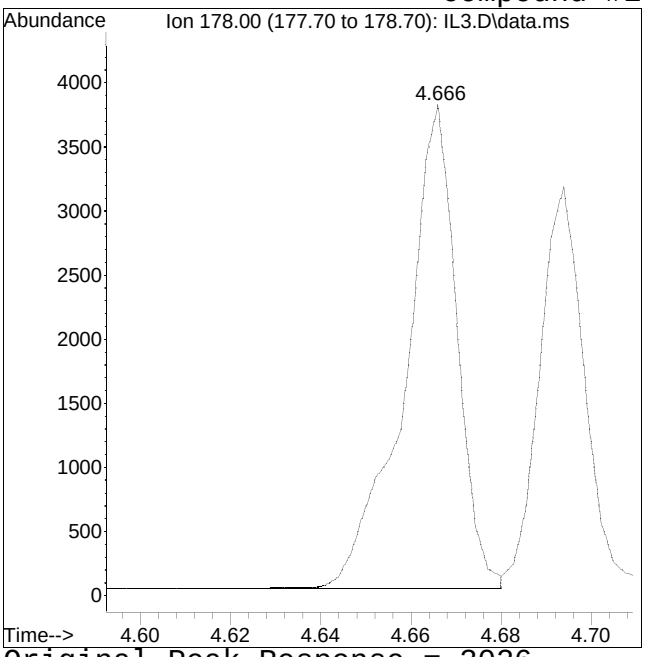
Manual Peak Response = 137 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

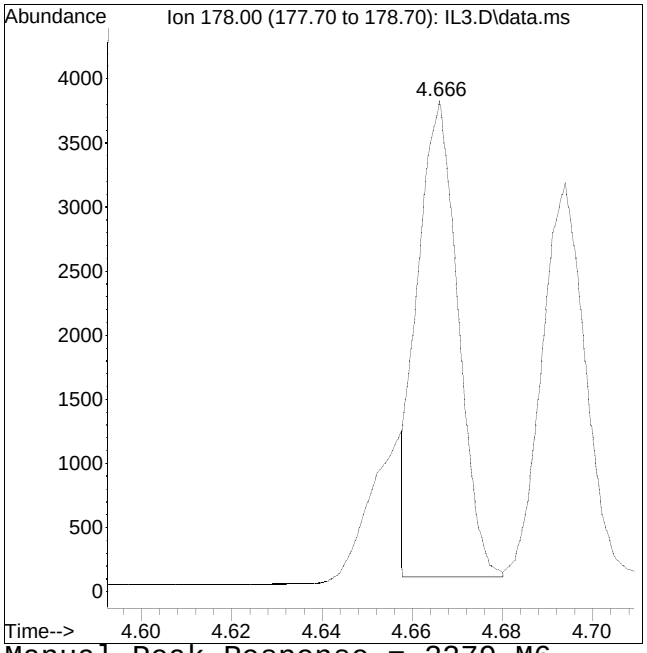
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQMethod : SIM-RVT_240728_sv120.M
Data File : IL3.D Operator : SV120:jjw
Date Inj'd : 7/28/2024 6:43 pm Instrument : SV120
Sample : IL3,32,,5.0ng/mL lot# 1089Quant Date : 7/29/2024 11:54 am

Compound #26: Phenanthrene



Original Peak Response = 3026



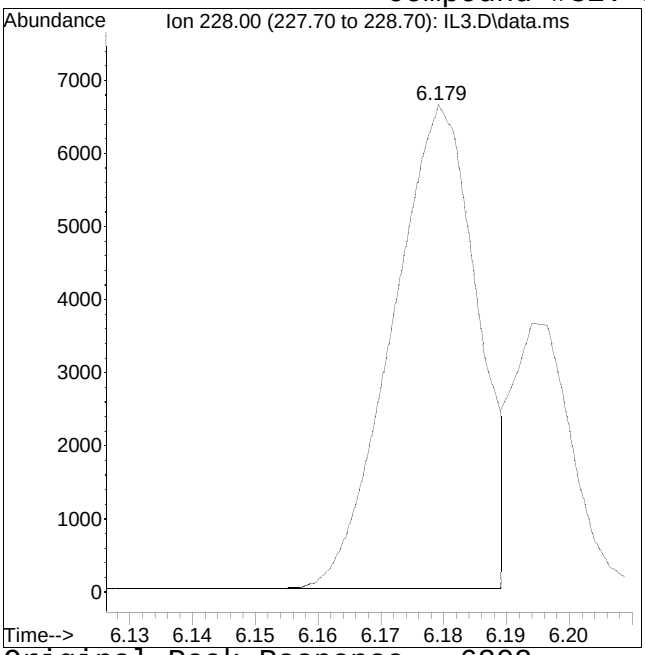
Manual Peak Response = 2279 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

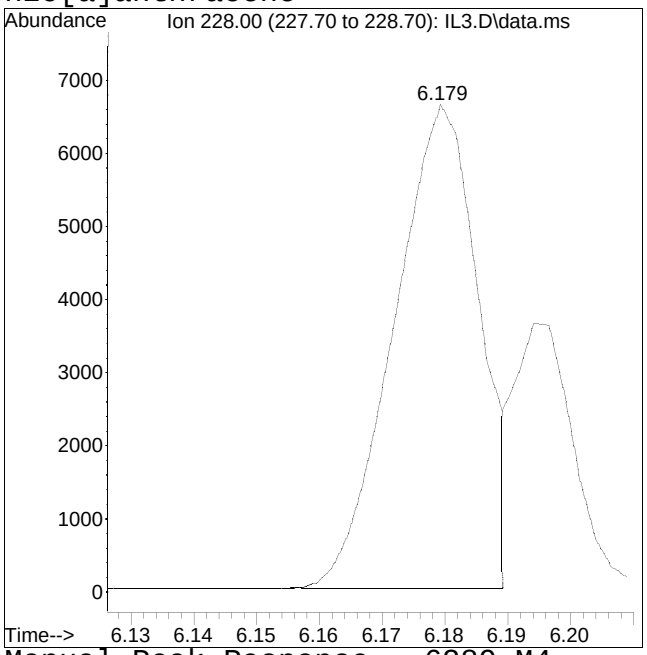
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL3.D
Date Inj'd : 7/28/2024 6:43 pm
Sample : IL3,32,,5.0ng/mL lot# 1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:54 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 6302



Manual Peak Response = 6289 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL2.D
Acq On : 28 Jul 2024 06:59 pm
Operator : SV120:jjw
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1955532,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 15:22:45 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:41:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.192	152	317694	4000.000 ng/ml	0.00
Standard Area 1 = 333135			Recovery	= 95.36%	
8) Naphthalene-d8	2.850	136	1196630	4000.000 ng/ml	0.00
Standard Area 1 = 1286400			Recovery	= 93.02%	
17) Acenaphthene-d10	3.821	164	656125	4000.000 ng/ml	0.00
Standard Area 1 = 726145			Recovery	= 90.36%	
22) Phenanthrene-d10	4.655	188	1387301	4000.000 ng/ml	0.00
Standard Area 1 = 1502374			Recovery	= 92.34%	
31) Chrysene-d12	6.180	240	1215166	4000.000 ng/ml	0.00
Standard Area 1 = 1290415			Recovery	= 94.17%	
36) Perylene-d12	7.319	264	1098528	4000.000 ng/ml	0.00
Standard Area 1 = 1272234			Recovery	= 86.35%	
System Monitoring Compounds					
2) 2-Fluorophenol	1.612	112	201	2.148 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.11%#	
3) Phenol-d6	2.010	99	249	2.184 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.11%#	
7) Nitrobenzene-d5	2.471	82	184	1.953 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 0.20%#	
13) 2-Fluorobiphenyl	3.445	172	567	2.229 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 0.22%#	
21) 2,4,6-Tribromophenol	0.000	330	0d	0.000 ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 0.00%#	
30) 4-Terphenyl-d14	5.562	244	678	2.398 ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 0.12%#	
Target Compounds					Qvalue
4) Bis(2-chloroethyl)ether	2.060	93	259	2.579 ng/ml	85
5) n-nitrosodi-n-propylamine	2.393	70	147M7	2.136 ng/ml	
6) Hexachloroethane	2.449	117	102	2.304 ng/ml	95
9) Naphthalene	2.860	128	767M6	2.276 ng/ml	
10) Hexachlorobutadiene	2.935	225	132	2.254 ng/ml	95
11) 2-Methylnaphthalene	3.238	142	470	2.179 ng/ml	96
12) 1-Methylnaphthalene	3.292	142	448	2.232 ng/ml	99
14) 2-Chloronaphthalene	3.507	162	486	2.225 ng/ml	96
15) 2,6-Dinitrotoluene	0.000		0	N.D. d	
16) Acenaphthylene	3.737	152	633	1.977 ng/ml	95
18) Acenaphthene	3.837	153	526	2.264 ng/ml#	79

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL2.D
Acq On : 28 Jul 2024 06:59 pm
Operator : SV120:jjw
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1955532,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 15:22:45 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:41:00 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D. d	
20) Fluorene	4.126	166	577	2.224 ng/ml	96
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	
24) Hexachlorobenzene	4.441	284	208	2.153 ng/ml	92
25) Pentachlorophenol	0.000		0	N.D. d	
26) Phenanthrene	4.666	178	1050M6	2.566 ng/ml	
27) Anthracene	4.694	178	969	2.451 ng/ml	96
28) Fluoranthene	5.339	202	1064	2.402 ng/ml	99
29) Pyrene	5.467	202	1106	2.391 ng/ml	100
32) Benzo[a]anthracene	0.000		0	N.D. d	
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d	
34) Chrysene	0.000		0	N.D. d	
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D. d	
37) Benzo[b]fluoranthene	6.963	252	745	1.998 ng/ml	98
38) Benzo[k]fluoranthene	6.986	252	724M6	2.062 ng/ml	
39) Benzo[a]pyrene	7.254	252	561	1.844 ng/ml	98
40) Indeno[1,2,3-cd]pyrene	8.463	276	518	1.829 ng/ml	98
41) Dibenzo[a,h]anthracene	8.504	278	457	1.708 ng/ml	96
42) Benzo[g,h,i]perylene	8.788	276	556	1.926 ng/ml	95

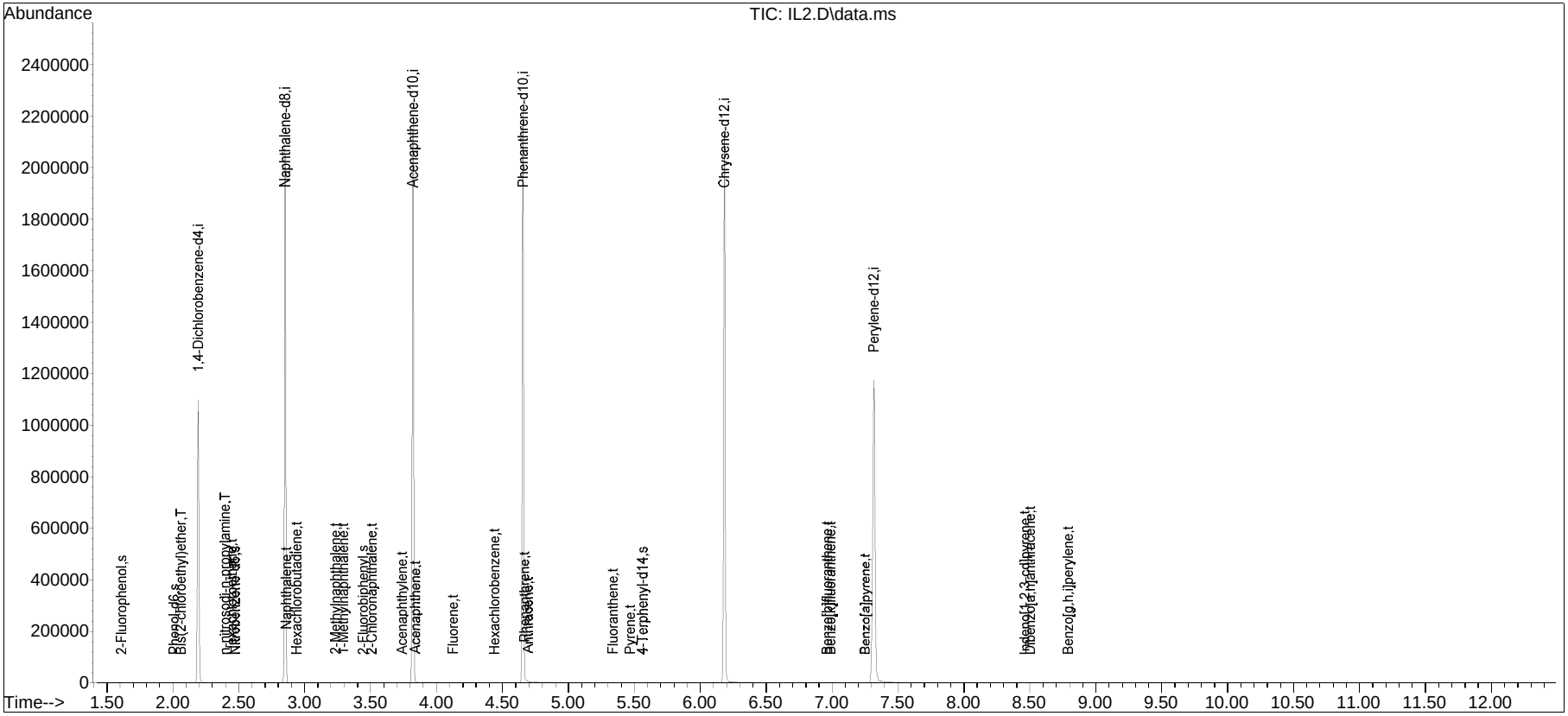
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL2.D
Acq On : 28 Jul 2024 06:59 pm
Operator : SV120:jjw
Sample : IL2,32,,2.0ng/mL lot# 10900
Misc : WG1955532,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 15:22:45 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:41:00 2024
Response via : Initial Calibration

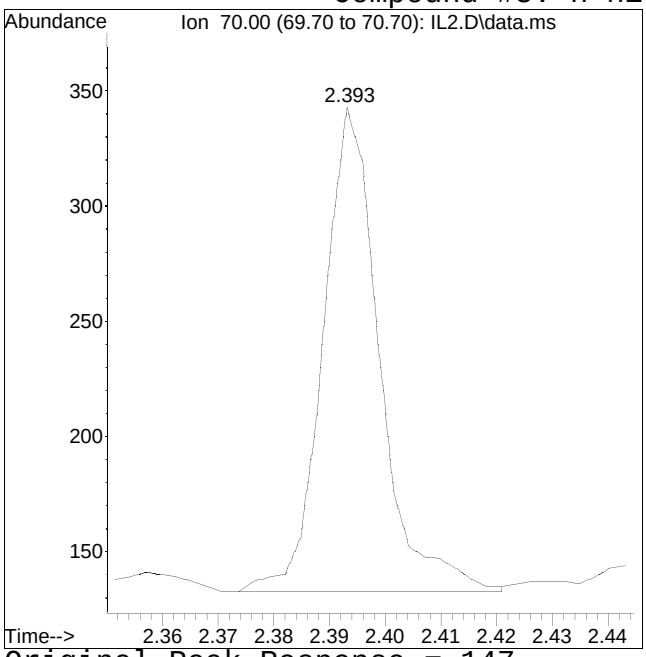
Sub List : Default - All compounds listedical\IL8.D•



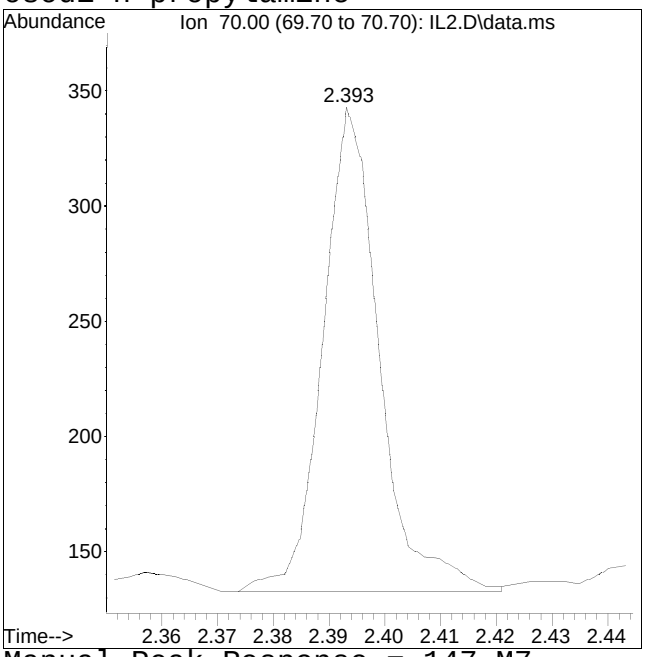
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL2.D
Date Inj'd : 7/28/2024 6:59 pm
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:41 am

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 147



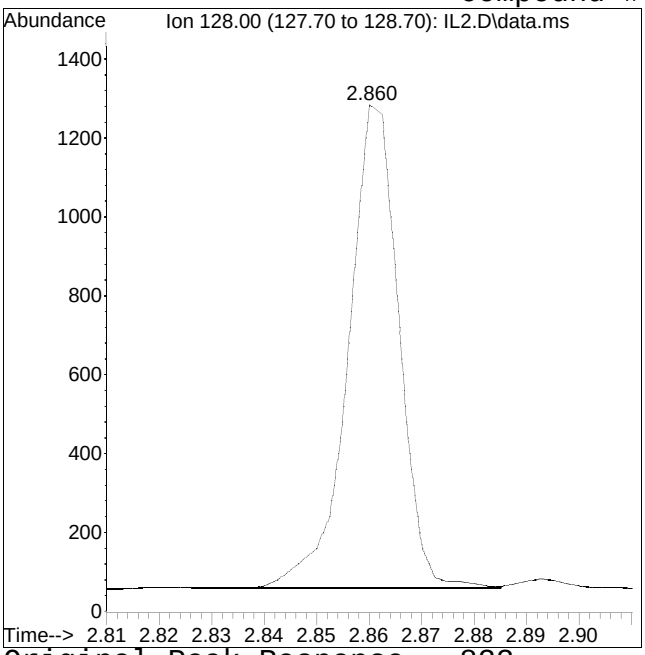
Manual Peak Response = 147 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

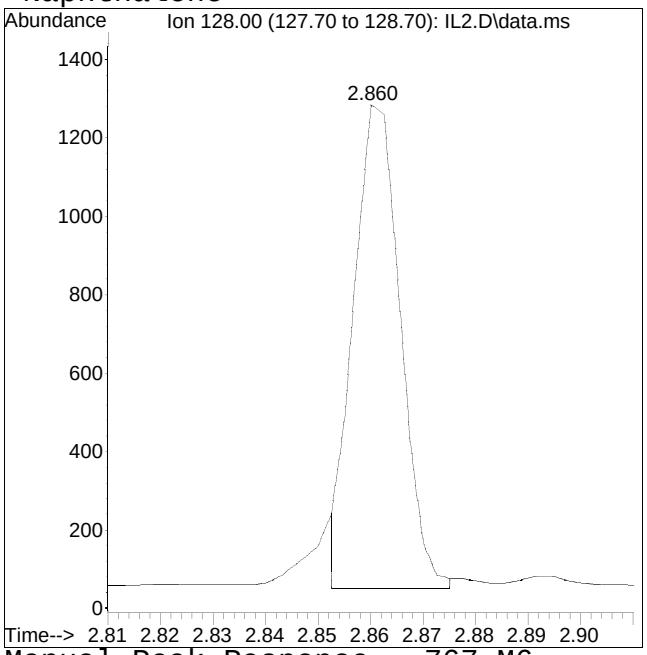
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL2.D
Date Inj'd : 7/28/2024 6:59 pm
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:41 am

Compound #9: Naphthalene



Original Peak Response = 823



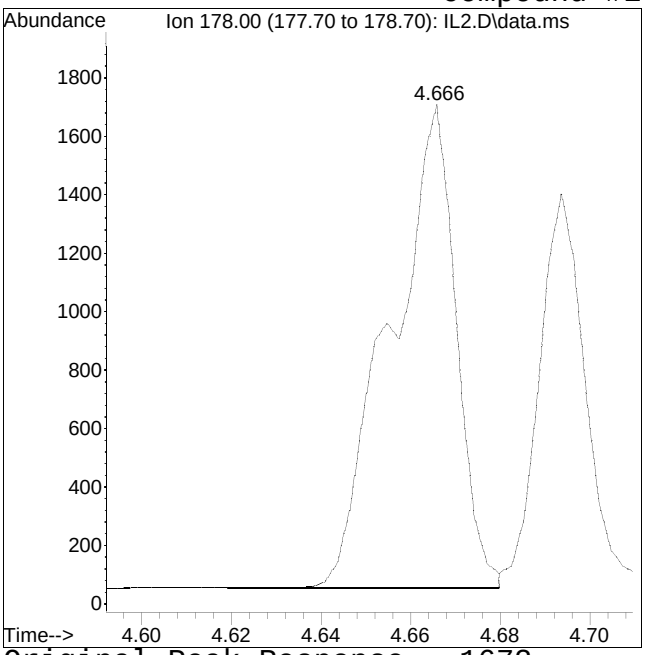
Manual Peak Response = 767 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

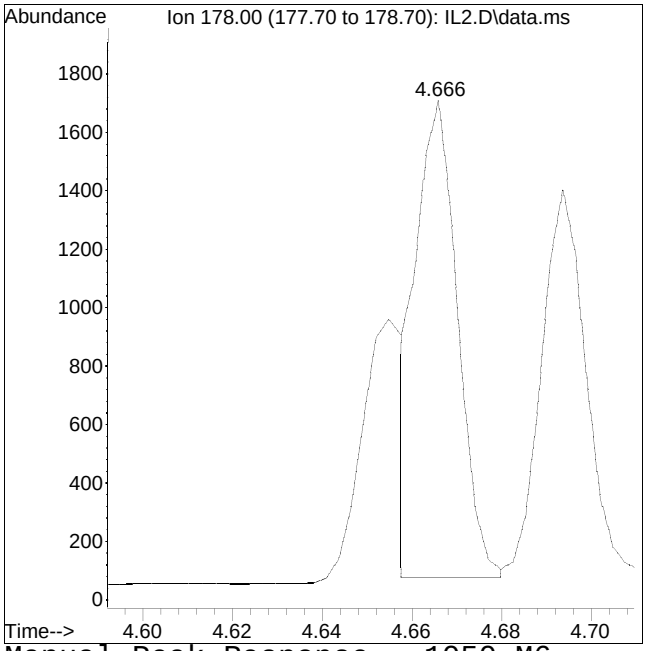
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL2.D
Date Inj'd : 7/28/2024 6:59 pm
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:41 am

Compound #26: Phenanthrene



Original Peak Response = 1672



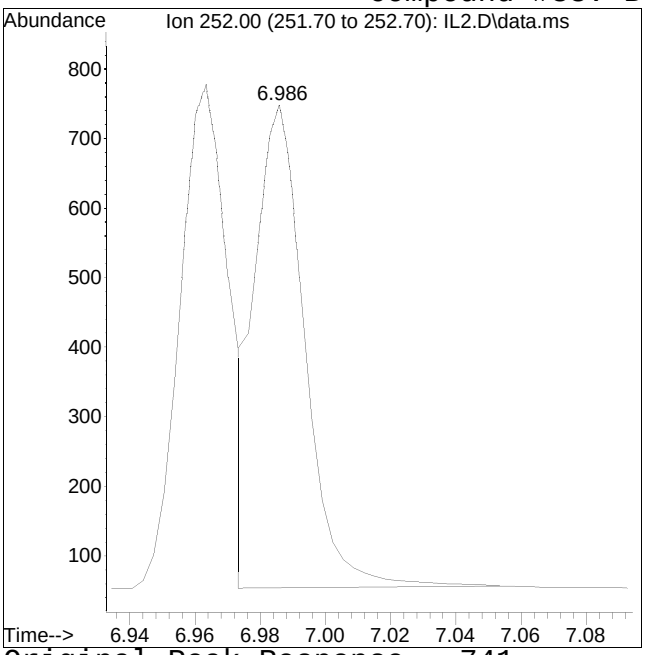
Manual Peak Response = 1050 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

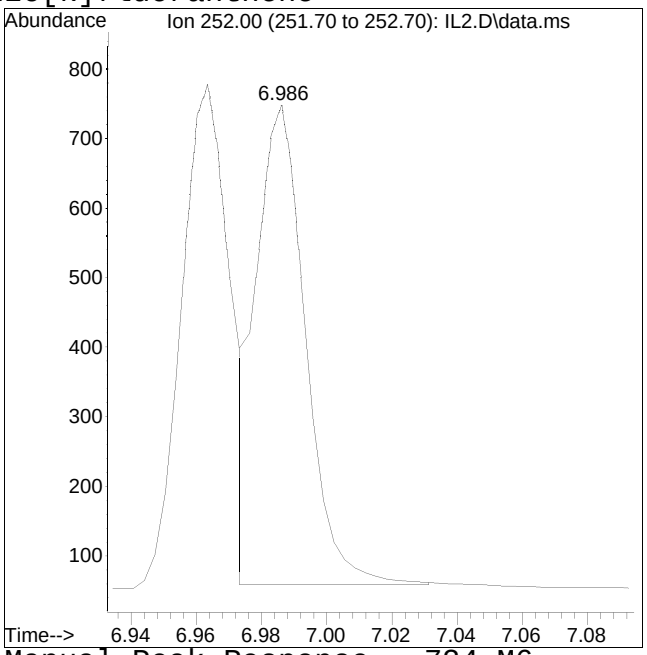
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL2.D
Date Inj'd : 7/28/2024 6:59 pm
Sample : IL2,32,,2.0ng/mL lot# 1090
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:41 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 741



Manual Peak Response = 724 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL1.D
Acq On : 28 Jul 2024 07:15 pm
Operator : SV120:jjw
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1955532,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 15:23:28 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:36:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.192	152	319973	4000.000 ng/ml	0.00
Standard Area 1 = 333135			Recovery = 96.05%		
8) Naphthalene-d8	2.850	136	1189565	4000.000 ng/ml	0.00
Standard Area 1 = 1286400			Recovery = 92.47%		
17) Acenaphthene-d10	3.820	164	639241	4000.000 ng/ml	0.00
Standard Area 1 = 726145			Recovery = 88.03%		
22) Phenanthrene-d10	4.654	188	1335842	4000.000 ng/ml	0.00
Standard Area 1 = 1502374			Recovery = 88.92%		
31) Chrysene-d12	6.180	240	1166472	4000.000 ng/ml	0.00
Standard Area 1 = 1290415			Recovery = 90.40%		
36) Perylene-d12	7.317	264	1064127	4000.000 ng/ml	0.00
Standard Area 1 = 1272234			Recovery = 83.64%		
System Monitoring Compounds					
2) 2-Fluorophenol	1.612	112	96	1.021 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#		
3) Phenol-d6	2.010	99	119	1.036 ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.05%#		
7) Nitrobenzene-d5	2.471	82	83	0.875 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.09%#		
13) 2-Fluorobiphenyl	3.444	172	268	1.069 ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 0.11%#		
21) 2,4,6-Tribromophenol	0.000	330	0	0.000 ng/ml	
Spiked Amount 2000.000	Range 15 - 110		Recovery = 0.00%#		
30) 4-Terphenyl-d14	5.560	244	390	1.433 ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 0.07%#		
Target Compounds					Qvalue
4) Bis(2-chloroethyl)ether	0.000		0	N.D. d	
5) n-nitrosodi-n-propylamine	0.000		0	N.D. d	
6) Hexachloroethane	0.000		0	N.D. d	
9) Naphthalene	2.862	128	391M6	1.196 ng/ml	
10) Hexachlorobutadiene	2.935	225	63	1.082 ng/ml	87
11) 2-Methylnaphthalene	3.237	142	228	1.063 ng/ml	98
12) 1-Methylnaphthalene	3.292	142	208	1.042 ng/ml	100
14) 2-Chloronaphthalene	3.507	162	233	1.073 ng/ml	98
15) 2,6-Dinitrotoluene	0.000		0	N.D. d	
16) Acenaphthylene	3.740	152	310	0.971 ng/ml	96
18) Acenaphthene	3.837	153	243M7	1.074 ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL1.D
Acq On : 28 Jul 2024 07:15 pm
Operator : SV120:jjw
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1955532,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 15:23:28 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:36:04 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	0.000		0	N.D. d		
20) Fluorene	4.126	166	292	1.181	ng/ml	99
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
24) Hexachlorobenzene	4.441	284	111M6	1.227	ng/ml	
25) Pentachlorophenol	4.554	266	105	12.186	ng/ml	89
26) Phenanthrene	4.666	178	506M6	1.284	ng/ml	
27) Anthracene	4.693	178	508	1.334	ng/ml	98
28) Fluoranthene	5.337	202	590	1.384	ng/ml	98
29) Pyrene	5.468	202	600	1.347	ng/ml	100
32) Benzo[a]anthracene	0.000		0	N.D. d		
33) 3,3'-Dichlorobenzene	0.000		0	N.D. d		
34) Chrysene	0.000		0	N.D. d		
35) Bis(2-ethylhexyl)phtha...	0.000		0	N.D. d		
37) Benzo[b]fluoranthene	6.962	252	364	1.008	ng/ml	97
38) Benzo[k]fluoranthene	6.982	252	348	1.023	ng/ml	100
39) Benzo[a]pyrene	7.253	252	262	0.889	ng/ml	97
40) Indeno[1,2,3-cd]pyrene	8.465	276	247	0.901	ng/ml	99
41) Dibenzo[a,h]anthracene	8.502	278	226M6	0.872	ng/ml	
42) Benzo[g,h,i]perylene	8.786	276	255	0.912	ng/ml	96

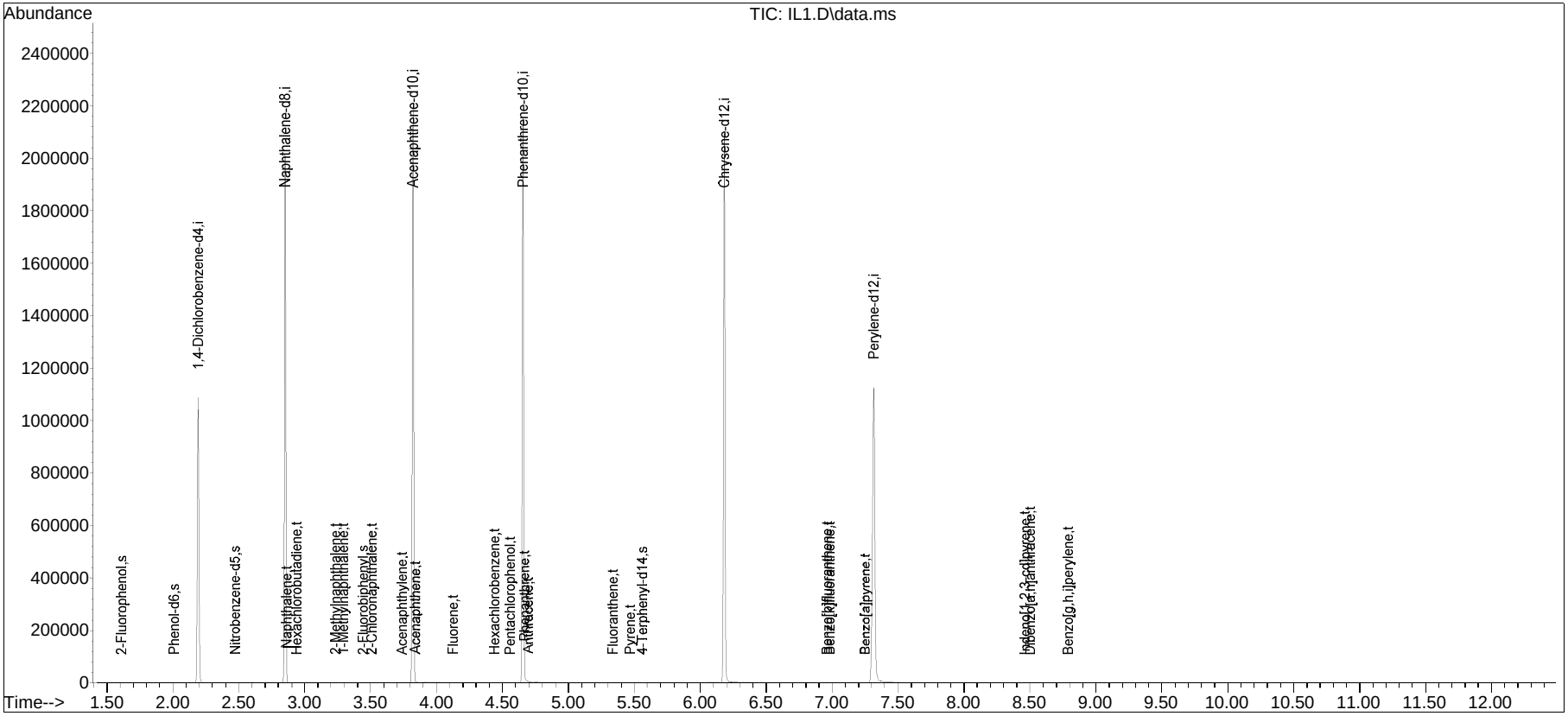
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : IL1.D
Acq On : 28 Jul 2024 07:15 pm
Operator : SV120:jjw
Sample : IL1,32,,1.0ng/mL lot# 10895
Misc : WG1955532,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 15:23:28 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Jul 29 11:36:04 2024
Response via : Initial Calibration

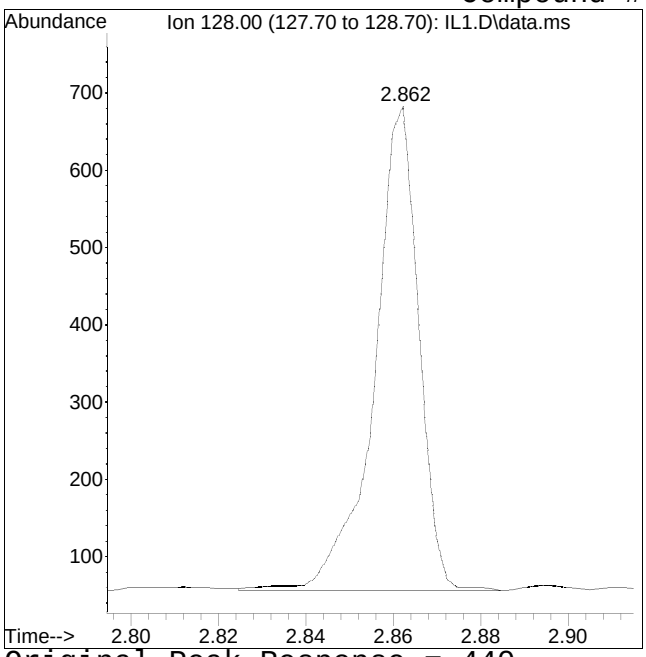
Sub List : Default - All compounds listedical\IL8.D•



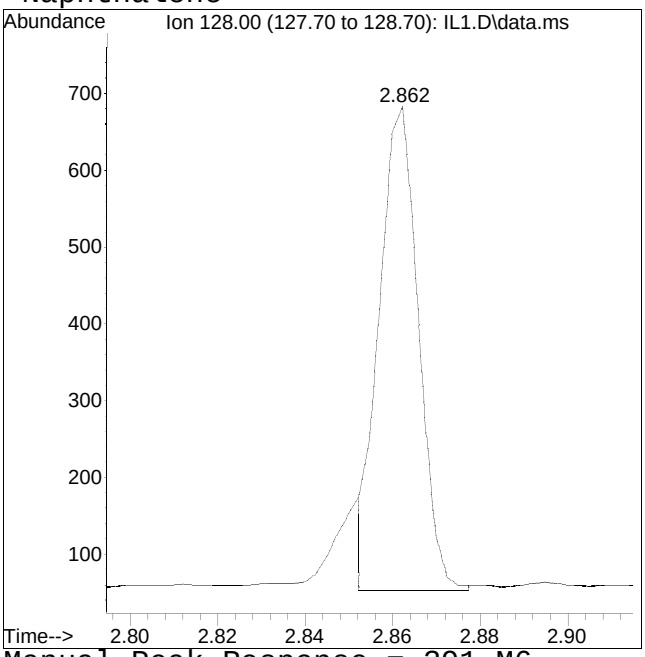
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL1.D
Date Inj'd : 7/28/2024 7:15 pm
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:36 am

Compound #9: Naphthalene



Original Peak Response = 440



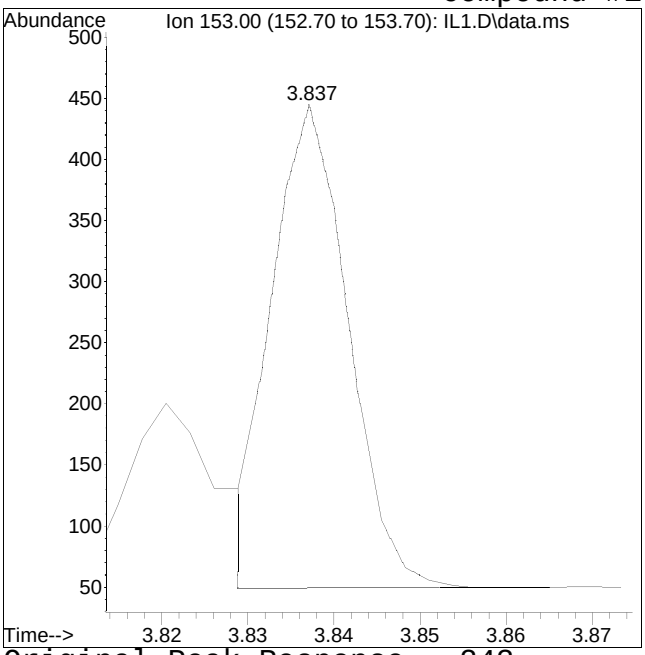
Manual Peak Response = 391 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

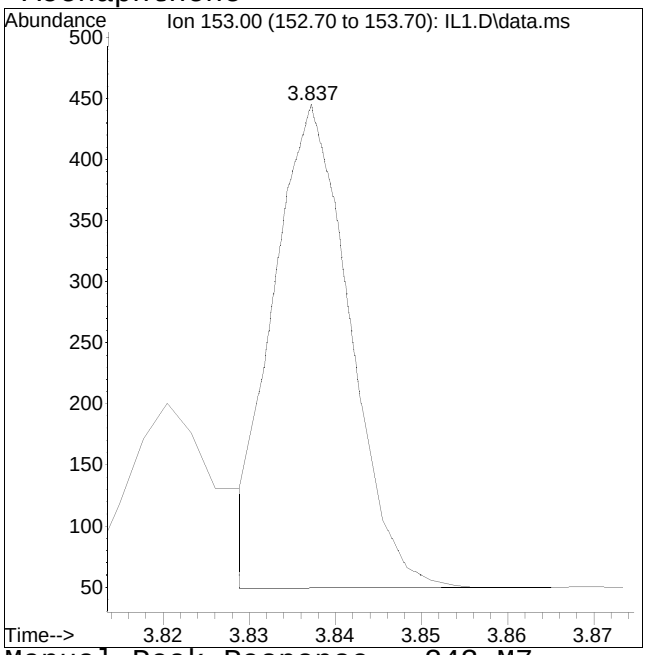
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL1.D
Date Inj'd : 7/28/2024 7:15 pm
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:36 am

Compound #18: Acenaphthene



Original Peak Response = 243



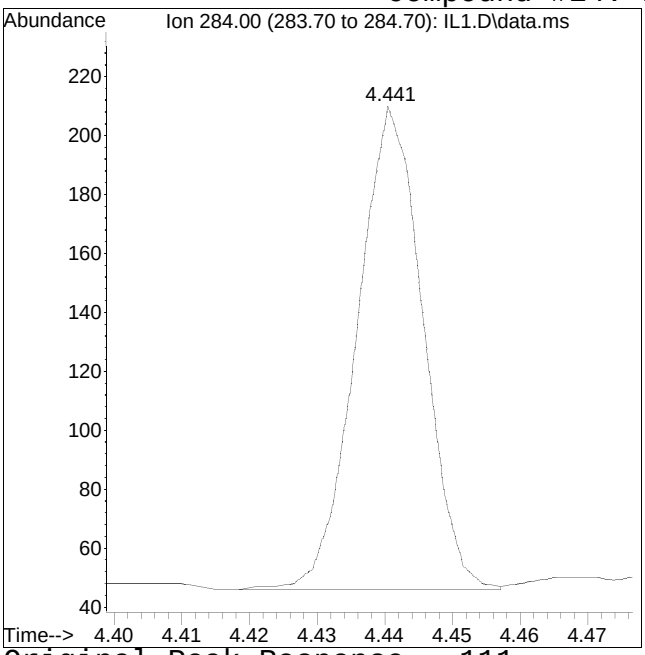
Manual Peak Response = 243 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

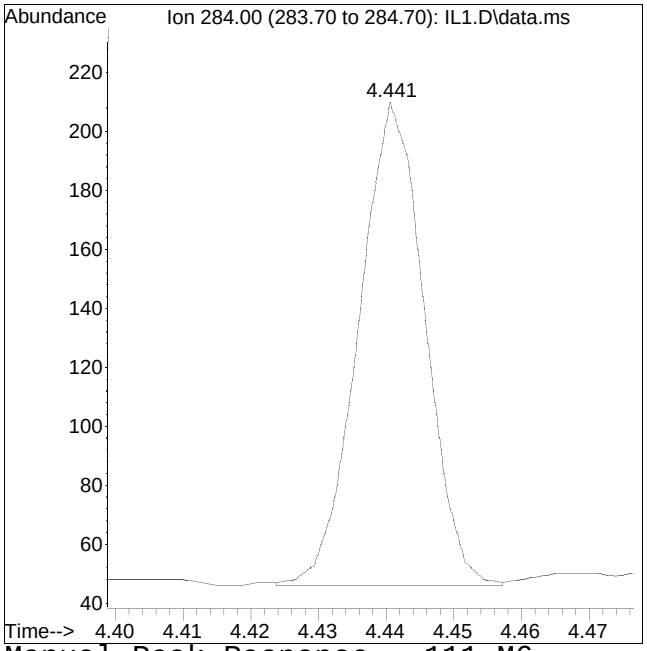
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL1.D
Date Inj'd : 7/28/2024 7:15 pm
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:36 am

Compound #24: Hexachlorobenzene



Original Peak Response = 111



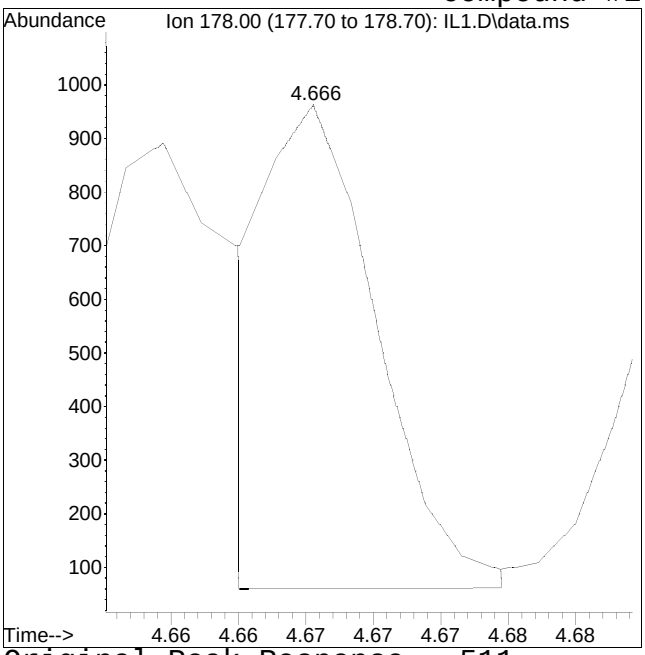
Manual Peak Response = 111 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

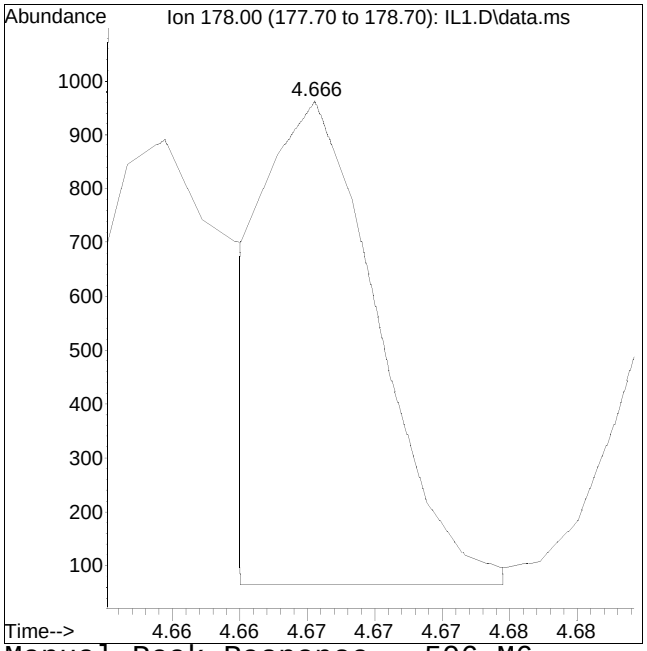
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL1.D
Date Inj'd : 7/28/2024 7:15 pm
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:36 am

Compound #26: Phenanthrene



Original Peak Response = 511



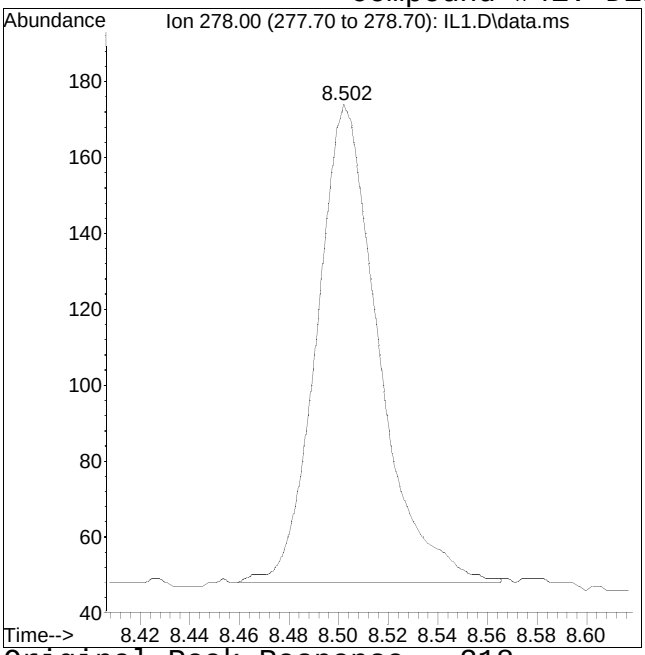
Manual Peak Response = 506 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

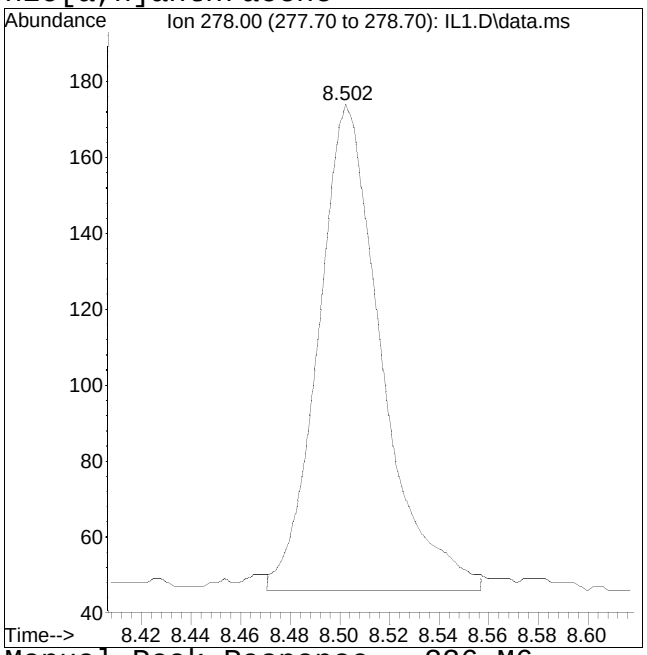
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : IL1.D
Date Inj'd : 7/28/2024 7:15 pm
Sample : IL1,32,,1.0ng/mL lot# 1089
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 7/29/2024 11:36 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 218



Manual Peak Response = 226 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : ICV.D
Acq On : 28 Jul 2024 07:31 pm
Operator : SV120:jjw
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1955532,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 16:14:17 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 05 16:14:33 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
2	s	2-Fluorophenol	1.188	1.152	3.0	90	0.00
3	s	Phenol-d6	1.445	1.401	3.0	90	0.00
4	T	Bis(2-chloroethyl)ether	1.315	1.179	10.3	87	0.00
5	T	n-nitrosodi-n-propylamine	0.870	0.823	5.4	87	0.00
6	t	Hexachloroethane	0.561	0.534	4.8	89	0.00
7	s	Nitrobenzene-d5	1.176	1.125	4.3	86	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	92	0.00
9	t	Naphthalene	1.149	1.047	8.9	90	0.00
10	t	Hexachlorobutadiene	0.197	0.188	4.6	91	0.00
11	t	2-Methylnaphthalene	0.729	0.709	2.7	91	0.00
12	t	1-Methylnaphthalene	0.680	0.652	4.1	90	0.00
13	s	2-Fluorobiphenyl	0.862	0.820	4.9	91	0.00
14	t	2-Chloronaphthalene	0.741	0.702	5.3	89	0.00
15	t	2,6-Dinitrotoluene	*1000.000	843.309	15.7	82	0.00
16	t	Acenaphthylene	1.063	1.083	-1.9	89	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	92	0.00
18	t	Acenaphthene	1.442	1.332	7.6	90	0.00
19	t	2,4-Dinitrotoluene	*1000.000	854.009	14.6	83	0.00
20	t	Fluorene	1.598	1.497	6.3	90	0.00
21	s	2,4,6-Tribromophenol	0.220	0.239	-8.6	91	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	94	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	840.755	15.9	80	0.00
24	t	Hexachlorobenzene	0.280	0.256	8.6	90	0.00
25	t	Pentachlorophenol	*1000.000	854.813	14.5	82	0.00
26	t	Phenanthrene	1.188	1.101	7.3	91	0.00
27	t	Anthracene	1.146	1.103	3.8	90	0.00
28	t	Fluoranthene	1.283	1.227	4.4	90	0.00
29	t	Pyrene	1.337	1.312	1.9	91	0.00
30	s	4-Terphenyl-d14	0.838	0.791	5.6	91	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	91	0.00
32	t	Benzo[a]anthracene	*1000.000	928.249	7.2	85	0.00
33	t	3,3'-Dichlorobenzene	*1000.000	900.162	10.0	88	0.00
34	t	Chrysene	1.455	1.399	3.8	89	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	881.234	11.9	82	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : ICV.D
Acq On : 28 Jul 2024 07:31 pm
Operator : SV120:jjw
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1955532,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 05 16:14:17 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 05 16:14:33 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	88	0.00
37	t	Benzo[b]fluoranthene	1.350	1.260	6.7	83	0.00
38	t	Benzo[k]fluoranthene	1.272	1.361	-7.0	85	0.00
39	t	Benzo[a]pyrene	1.080	1.132	-4.8	84	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.012	1.028	-1.6	85	0.00
41	t	Dibenzo[a,h]anthracene	0.950	0.977	-2.8	82	0.00
42	t	Benzo[g,h,i]perylene	1.034	1.042	-0.8	83	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : ICV.D
Acq On : 28 Jul 2024 07:31 pm
Operator : SV120:jjw
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1955532,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 07 14:43:51 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 07 14:37:50 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.192	152	307722	4000.000	ng/ml	0.00
Standard Area 1 = 333135			Recovery = 92.37%			
8) Naphthalene-d8	2.850	136	1184490	4000.000	ng/ml	0.00
Standard Area 1 = 1286400			Recovery = 92.08%			
17) Acenaphthene-d10	3.820	164	669474	4000.000	ng/ml	0.00
Standard Area 1 = 726145			Recovery = 92.20%			
22) Phenanthrene-d10	4.655	188	1412445	4000.000	ng/ml	0.00
Standard Area 1 = 1502374			Recovery = 94.01%			
31) Chrysene-d12	6.182	240	1171068	4000.000	ng/ml	0.00
Standard Area 1 = 1290415			Recovery = 90.75%			
36) Perylene-d12	7.317	264	1116379	4000.000	ng/ml	0.00
Standard Area 1 = 1272234			Recovery = 87.75%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.612	112	88588	969.202	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.46%			
3) Phenol-d6	2.010	99	107811	969.649	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.48%			
7) Nitrobenzene-d5	2.472	82	86519	956.101	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 95.61%			
13) 2-Fluorobiphenyl	3.447	172	242887	951.556	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 95.16%			
21) 2,4,6-Tribromophenol	4.262	330	40082	1087.483	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 54.37%			
30) 4-Terphenyl-d14	5.561	244	279263	944.086	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 47.20%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.060	93	90674	896.276	ng/ml	97
5) n-nitrosodi-n-propylamine	2.391	70	63313	945.830	ng/ml	99
6) Hexachloroethane	2.449	117	41073	951.468	ng/ml	100
9) Naphthalene	2.862	128	309894	911.095	ng/ml#	100
10) Hexachlorobutadiene	2.935	225	55759	954.356	ng/ml	99
11) 2-Methylnaphthalene	3.240	142	209998	972.681	ng/ml	99
12) 1-Methylnaphthalene	3.295	142	193160	958.727	ng/ml	99
14) 2-Chloronaphthalene	3.506	162	207824	947.408	ng/ml	100
15) 2,6-Dinitrotoluene	3.704	165	40624	843.309	ng/ml	98
16) Acenaphthylene	3.740	152	320693	1018.354	ng/ml	100
18) Acenaphthene	3.837	153	223008	923.711	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : ICV.D
Acq On : 28 Jul 2024 07:31 pm
Operator : SV120:jjw
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1955532,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 07 14:43:51 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 07 14:37:50 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv120\240728RVTical\IL8.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	3.929	165	55850	854.009	ng/ml	97
20) Fluorene	4.126	166	250469	936.229	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.156	198	27377	840.755	ng/ml	99
24) Hexachlorobenzene	4.441	284	90272	911.504	ng/ml	100
25) Pentachlorophenol	4.552	266	38488	854.813	ng/ml	100
26) Phenanthrene	4.666	178	388665	926.684	ng/ml	100
27) Anthracene	4.694	178	389545	962.681	ng/ml	100
28) Fluoranthene	5.338	202	433244	956.013	ng/ml	100
29) Pyrene	5.466	202	463317	981.307	ng/ml	100
32) Benzo[a]anthracene	6.172	228	411974	928.254	ng/ml	100
33) 3,3'-Dichlorobenzene	6.162	252	147041	900.162	ng/ml	99
34) Chrysene	6.197	228	409505	961.428	ng/ml	98
35) Bis(2-ethylhexyl)phtha...	6.204	149	232887	881.234	ng/ml	99
37) Benzo[b]fluoranthene	6.965	252	351549	932.908	ng/ml	96
38) Benzo[k]fluoranthene	6.987	252	379963	1070.217	ng/ml	96
39) Benzo[a]pyrene	7.255	252	315948	1048.378	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.470	276	286922	1016.028	ng/ml	99
41) Dibenzo[a,h]anthracene	8.505	278	272700M6	1028.967	ng/ml	
42) Benzo[g,h,i]perylene	8.794	276	290717	1007.132	ng/ml	100

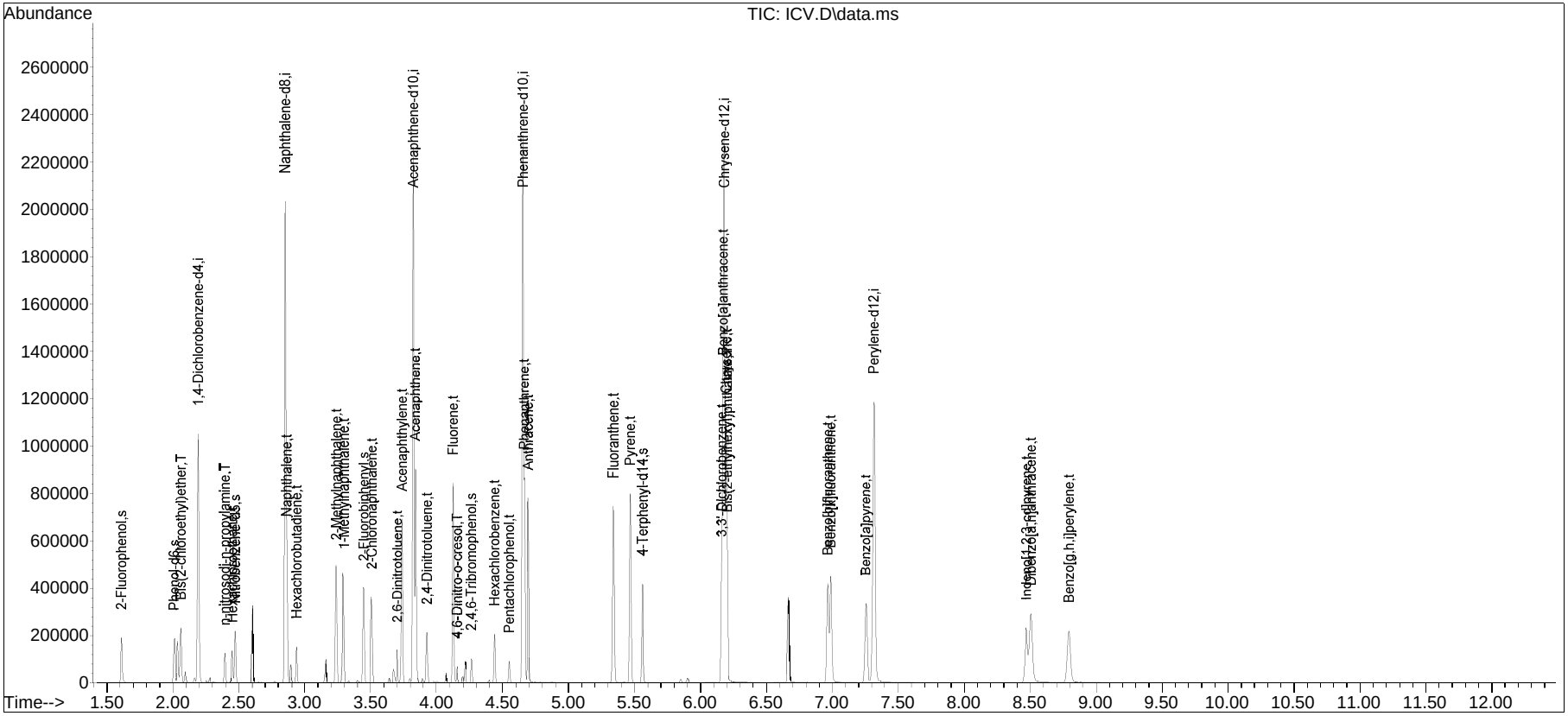
(#) = qualifier out of range (m) = manual integration (+) = signals summed

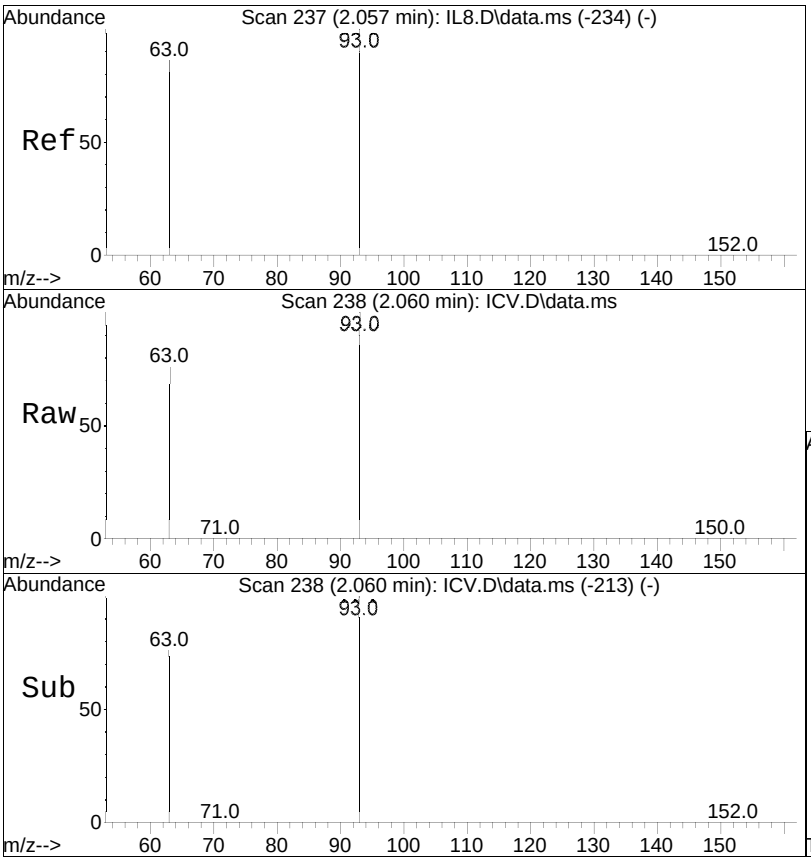
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240728RVTical\
Data File : ICV.D
Acq On : 28 Jul 2024 07:31 pm
Operator : SV120:jjw
Sample : CQICV,32,,1000.0ng/mL lot #10884
Misc : WG1955532,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 07 14:43:51 2024
Quant Method : I:\8270SIM\sv120\240728RVTical\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 07 14:37:50 2024
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL8.D•

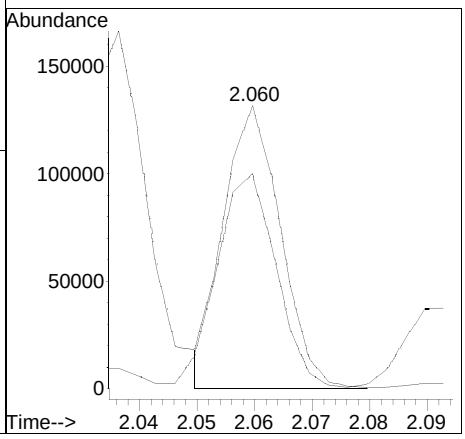


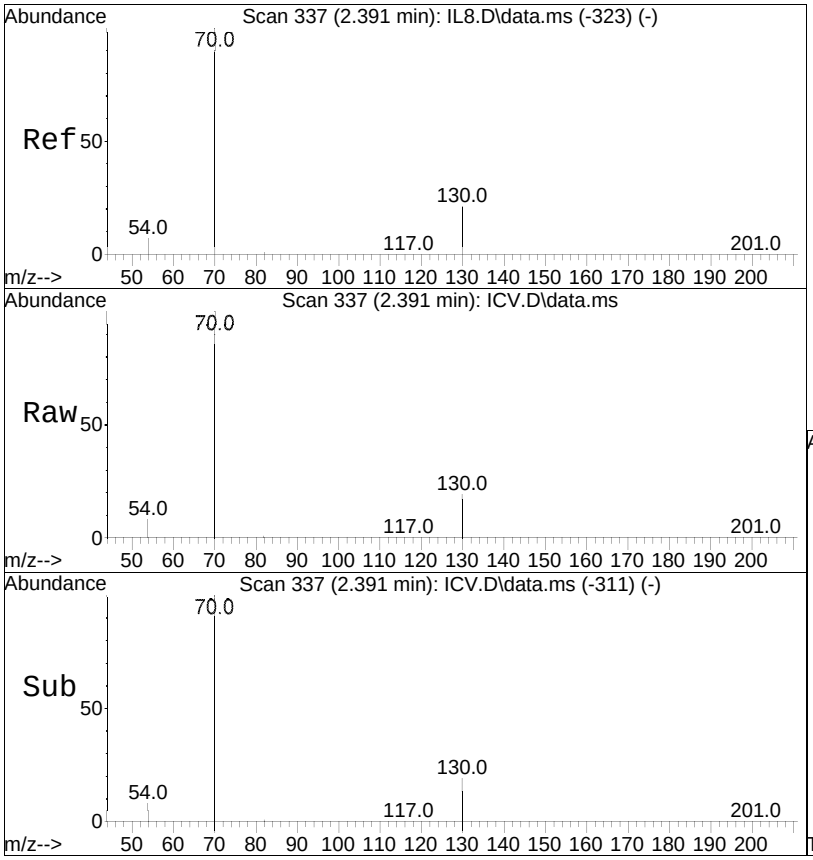


#4
Bis(2-chloroethyl)ether
Concen: 896.28 ng/ml
RT: 2.060 min Scan# 238
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion: 93 Resp: 90674

Ion	Ratio	Lower	Upper
93	100		
63	79.6	61.8	92.6

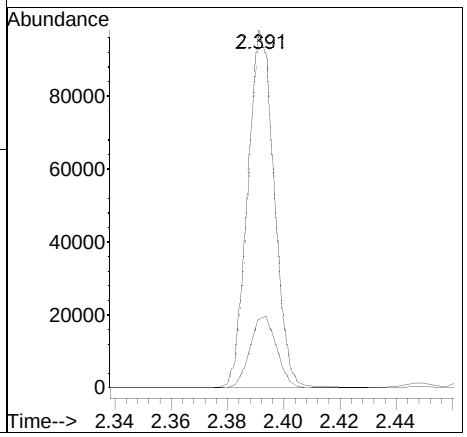


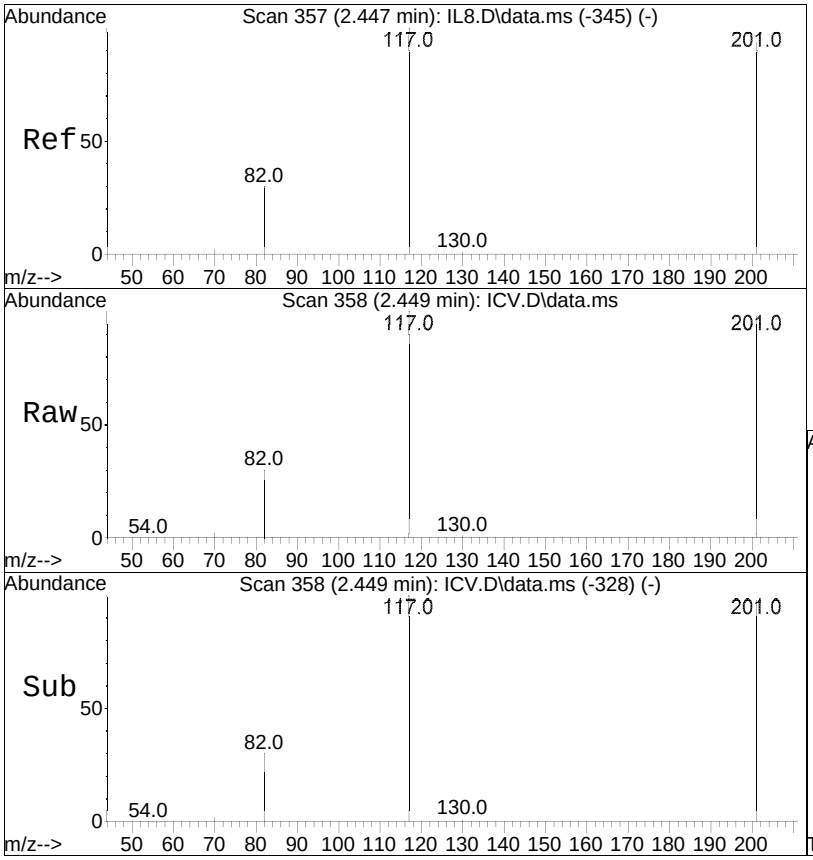


#5
n-nitrosodi-n-propylamine
Concen: 945.83 ng/ml
RT: 2.391 min Scan# 337
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion: 70 Resp: 63313

Ion	Ratio	Lower	Upper
70	100		
130	20.1	16.4	24.6

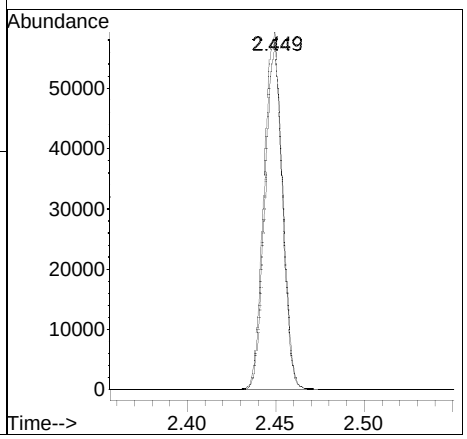


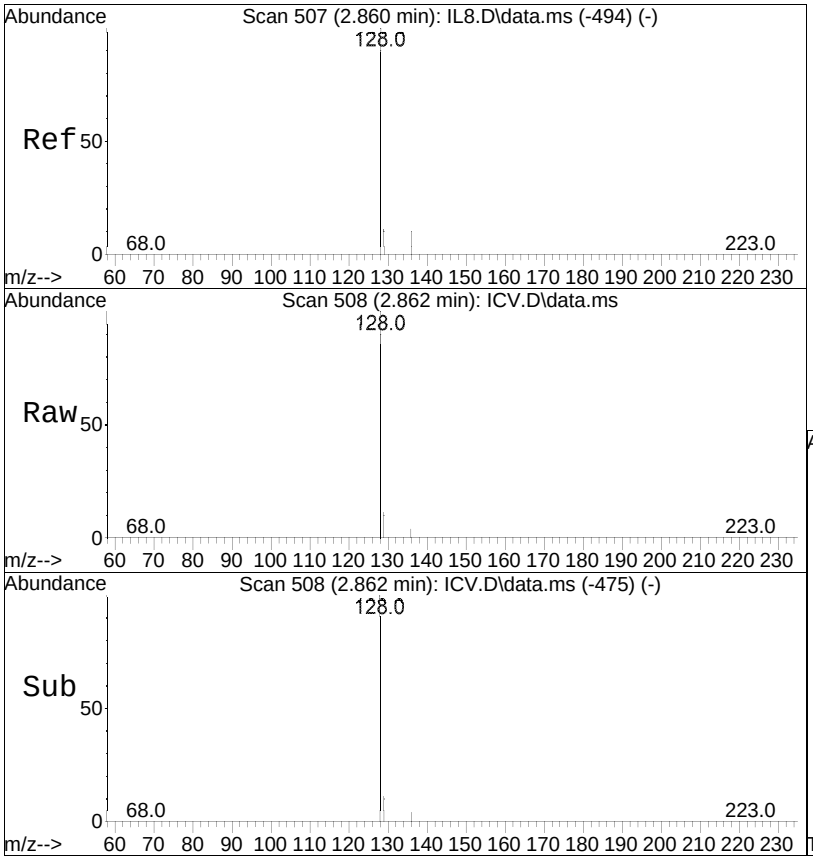


#6
Hexachloroethane
Concen: 951.47 ng/ml
RT: 2.449 min Scan# 358
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:117 Resp: 41073

Ion	Ratio	Lower	Upper
117	100		
201	95.6	76.6	115.0

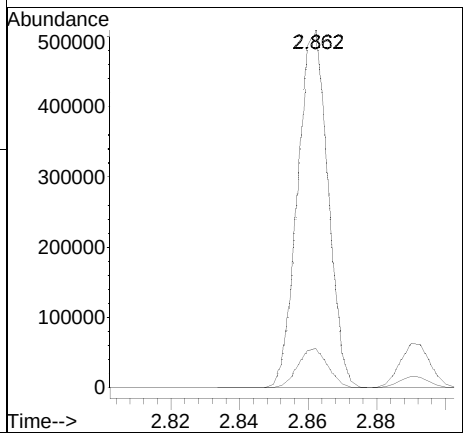


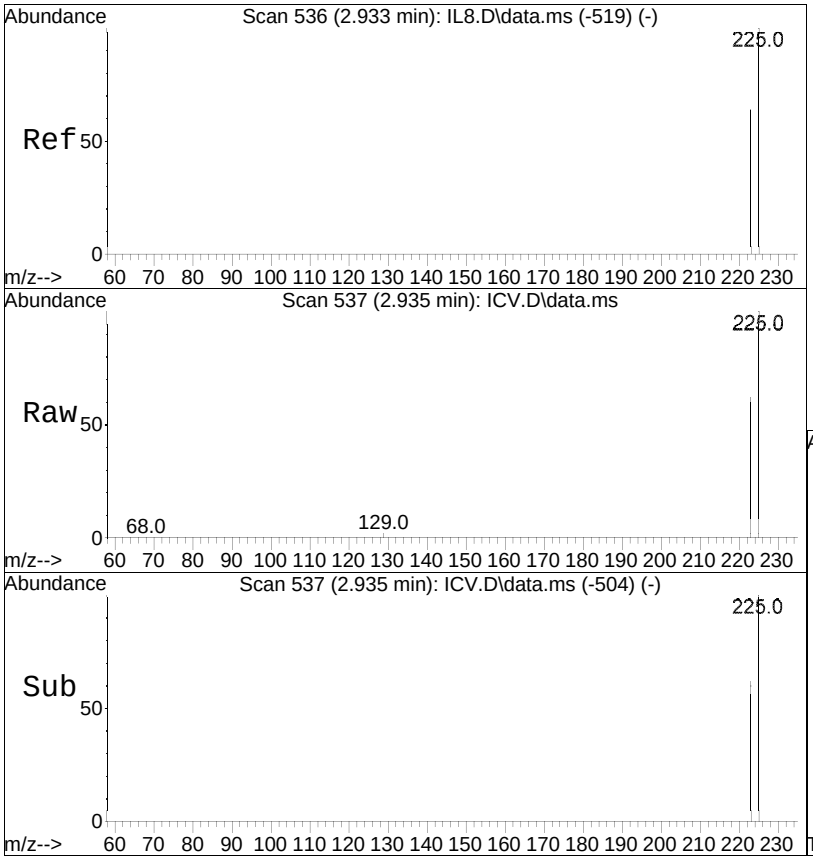


#9
Naphthalene
Concen: 911.10 ng/ml
RT: 2.862 min Scan# 508
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:128 Resp: 309894

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	0.0	0.0	0.0

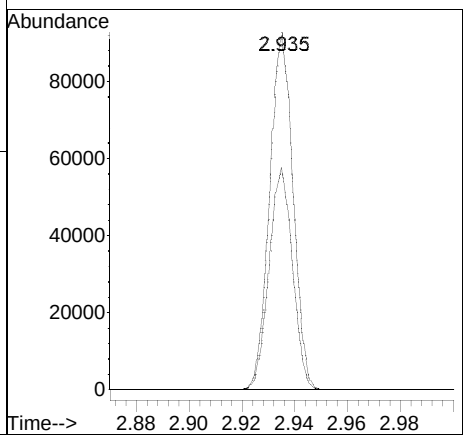


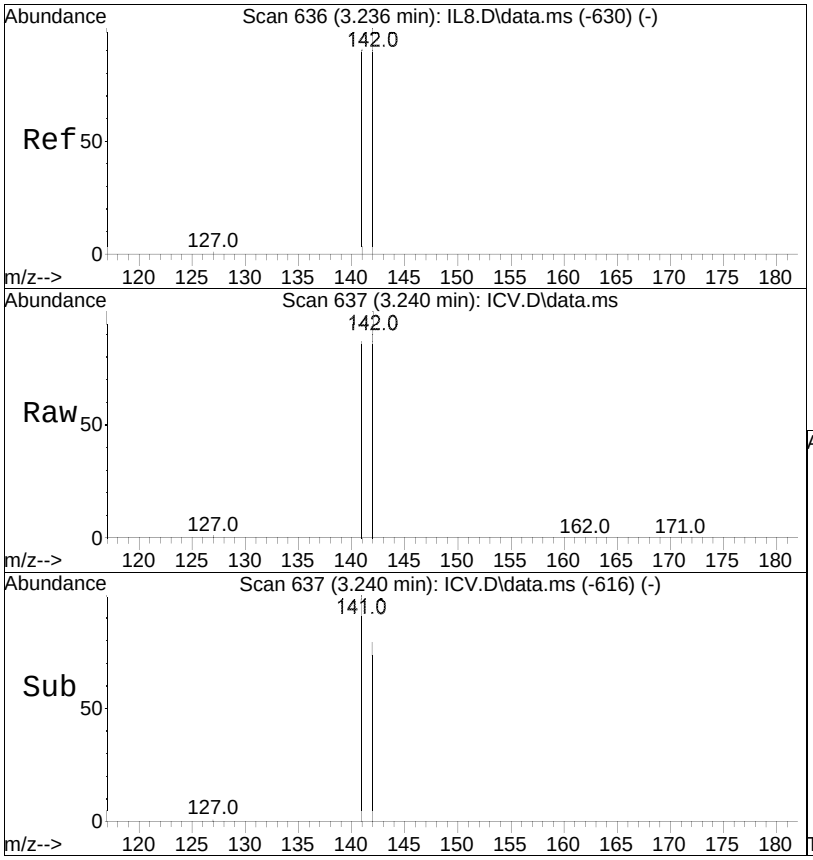


#10
Hexachlorobutadiene
Concen: 954.36 ng/ml
RT: 2.935 min Scan# 537
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:225 Resp: 55759

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.4	75.6

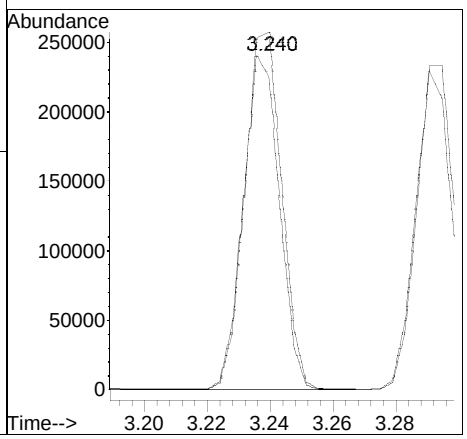


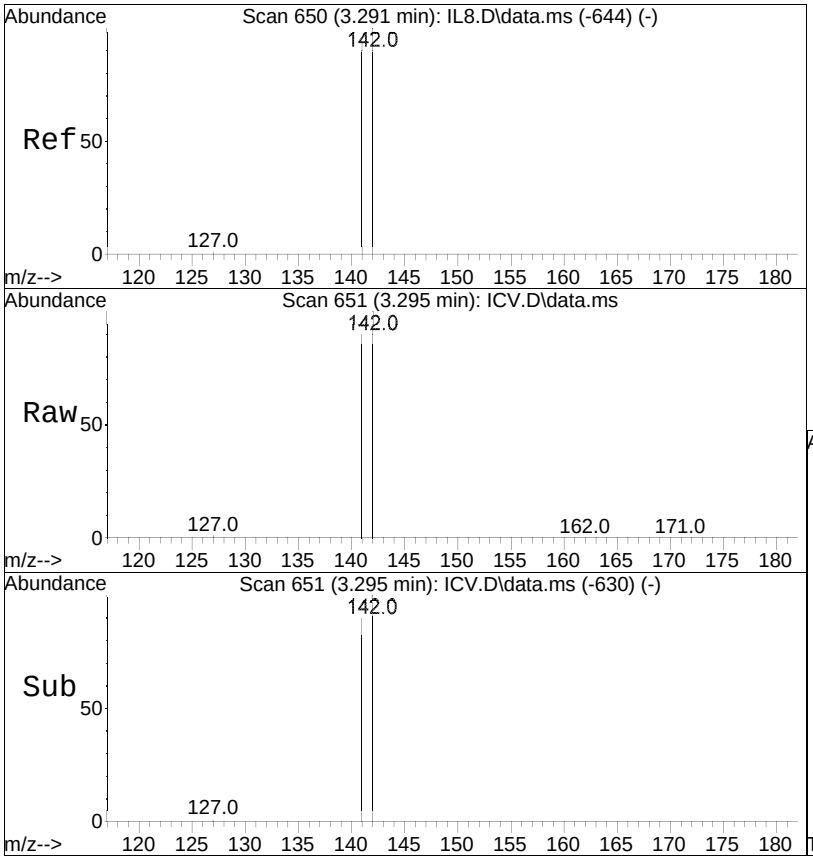


#11
2-Methylnaphthalene
Concen: 972.68 ng/ml
RT: 3.240 min Scan# 637
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:142 Resp: 209998

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.0	109.4

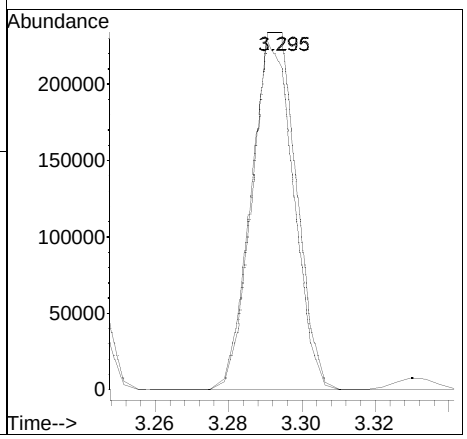


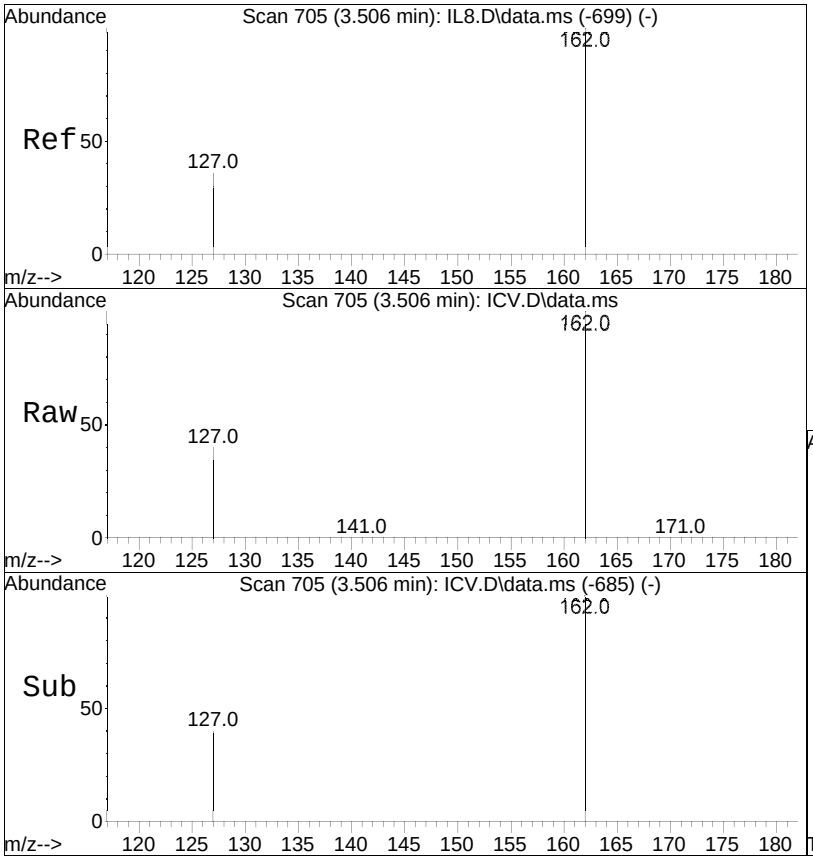


#12
1-Methylnaphthalene
Concen: 958.73 ng/ml
RT: 3.295 min Scan# 651
Delta R.T. 0.004 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:142 Resp: 193160

Ion	Ratio	Lower	Upper
142	100		
141	94.7	75.0	112.6

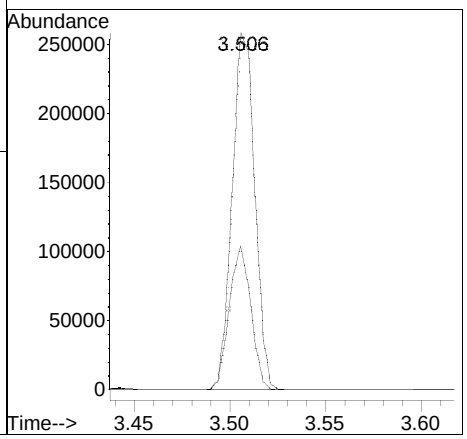


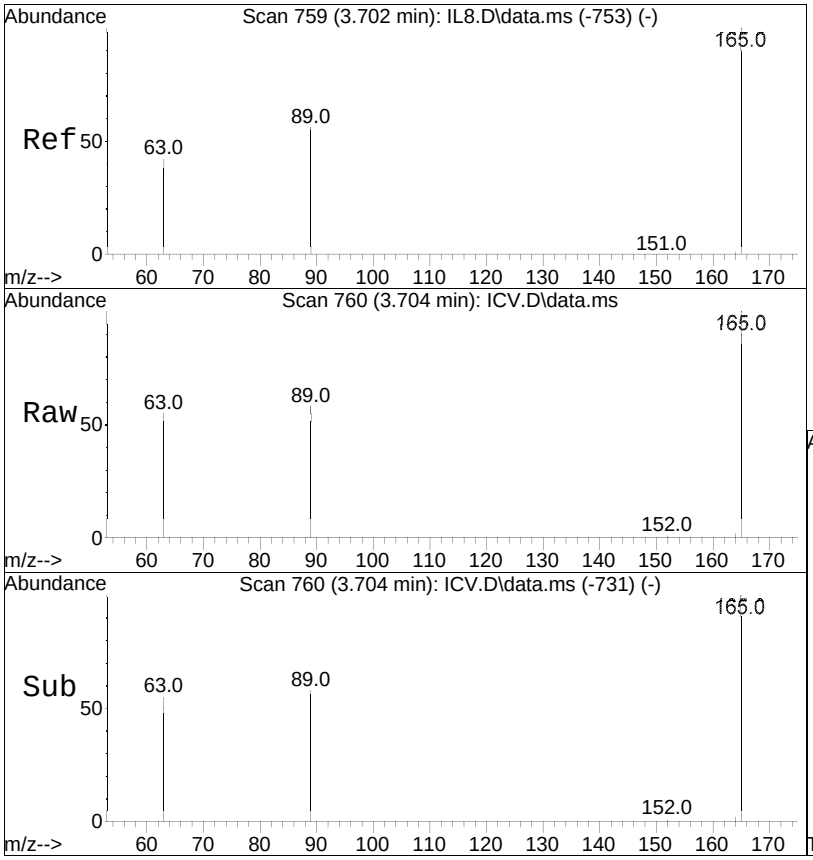


#14
2-Chloronaphthalene
Concen: 947.41 ng/ml
RT: 3.506 min Scan# 705
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:162 Resp: 207824

Ion	Ratio	Lower	Upper
162	100		
127	38.6	30.9	46.3

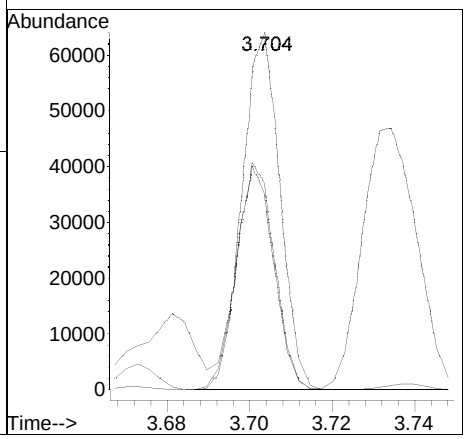


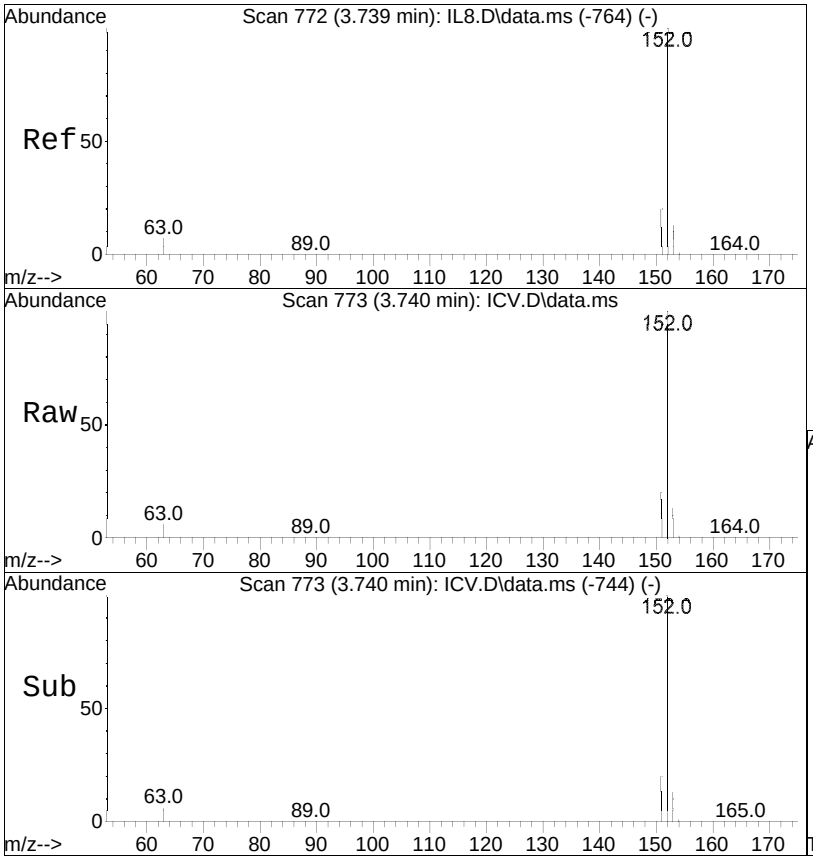


#15
2,6-Dinitrotoluene
Concen: 843.31 ng/ml
RT: 3.704 min Scan# 760
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:165 Resp: 40624

Ion	Ratio	Lower	Upper
165	100		
89	63.8	49.9	74.9
63	61.9	48.5	72.7

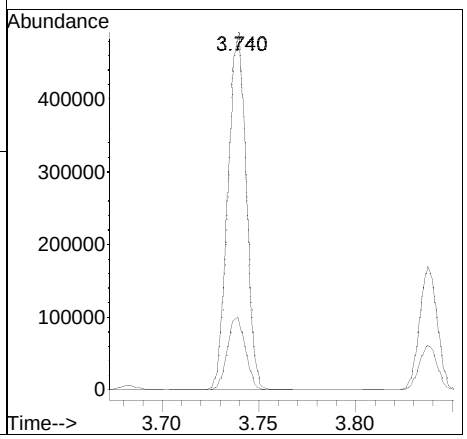


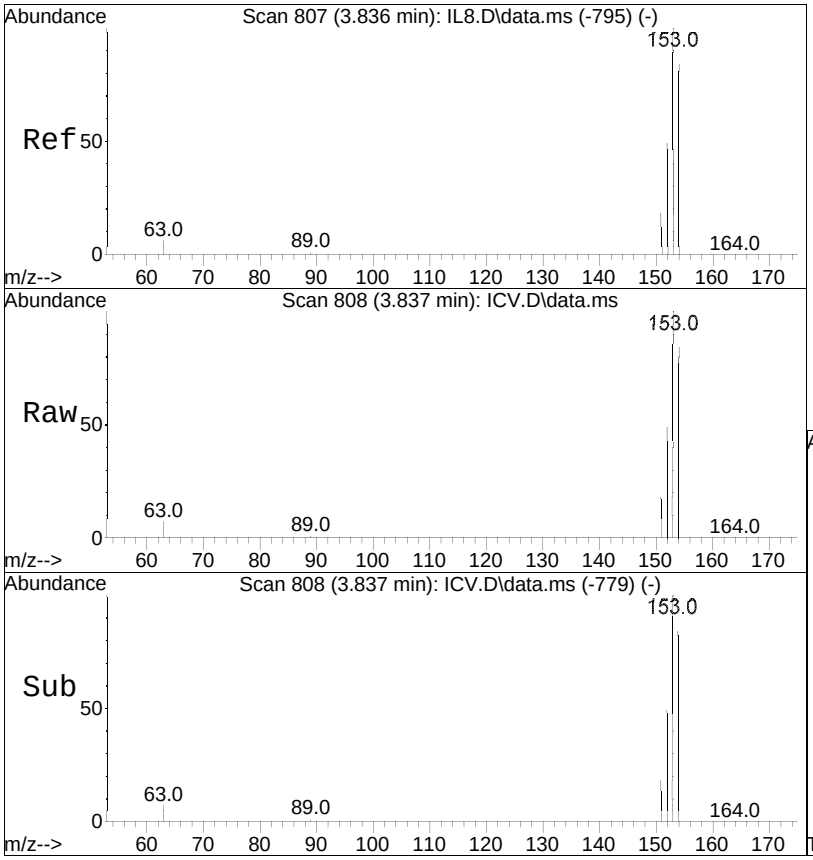


#16
Acenaphthylene
Concen: 1018.35 ng/ml
RT: 3.740 min Scan# 773
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:152 Resp: 320693

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5

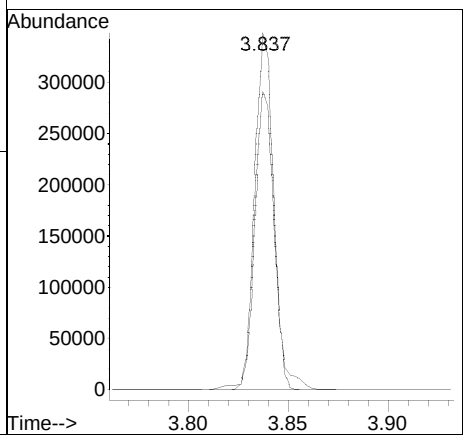


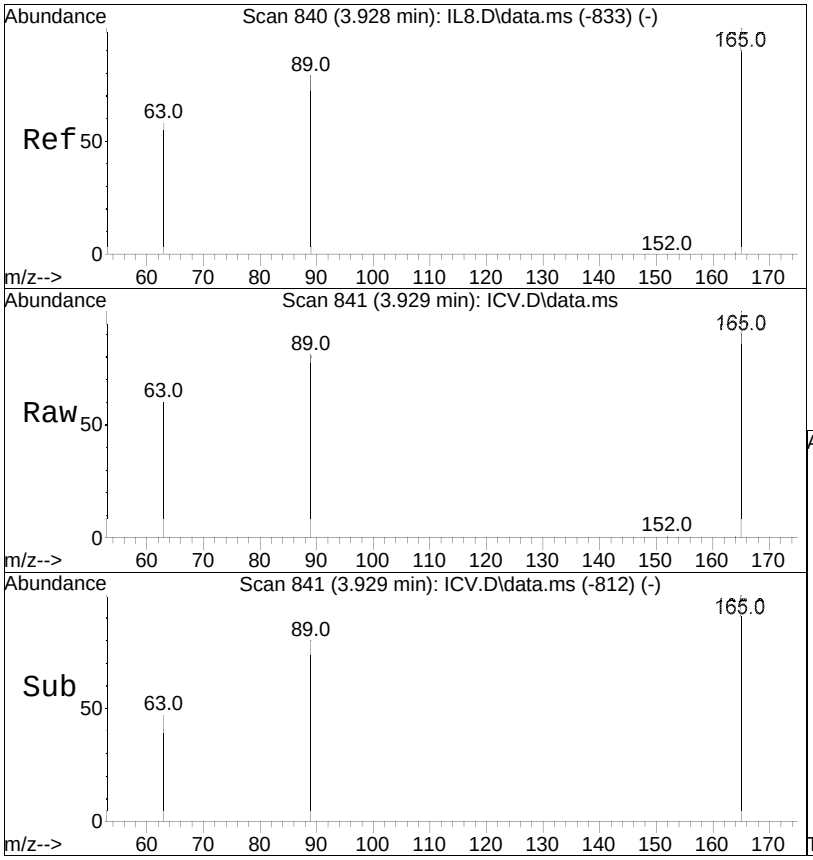


#18
Acenaphthene
Concen: 923.71 ng/ml
RT: 3.837 min Scan# 808
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:153 Resp: 223008

Ion	Ratio	Lower	Upper
153	100		
154	89.7	72.3	108.5

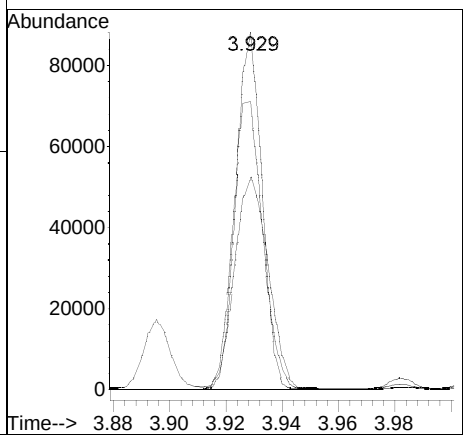


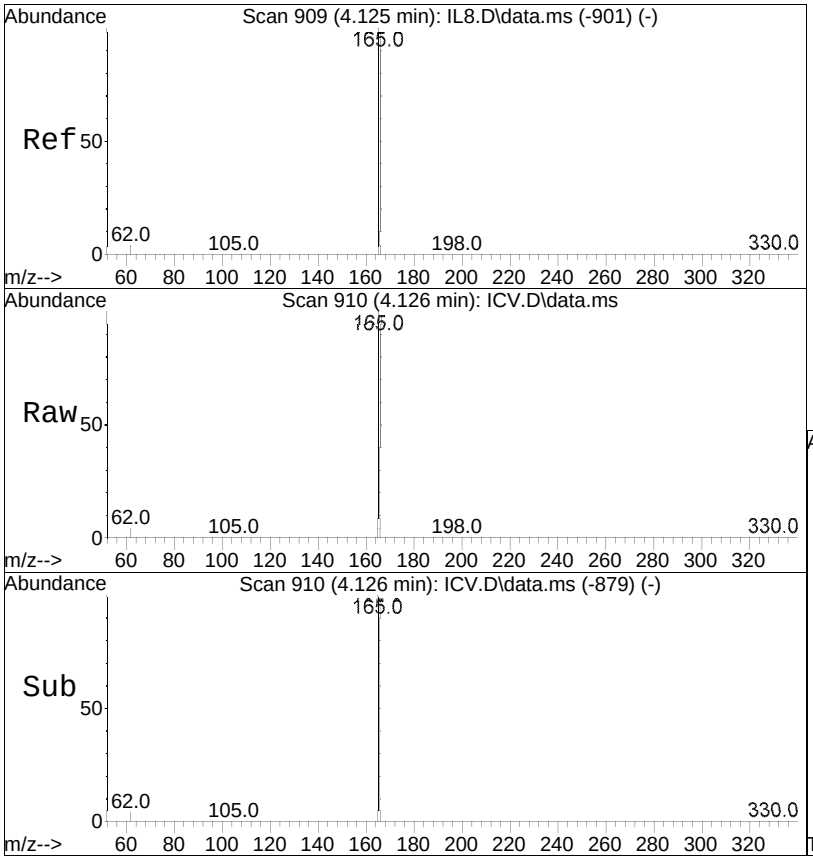


#19
2,4-Dinitrotoluene
Concen: 854.01 ng/ml
RT: 3.929 min Scan# 841
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:165 Resp: 55850

Ion	Ratio	Lower	Upper
165	100		
89	93.7	72.9	109.3
63	77.0	59.0	88.4

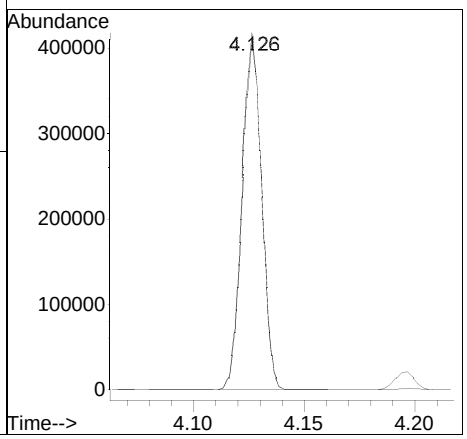


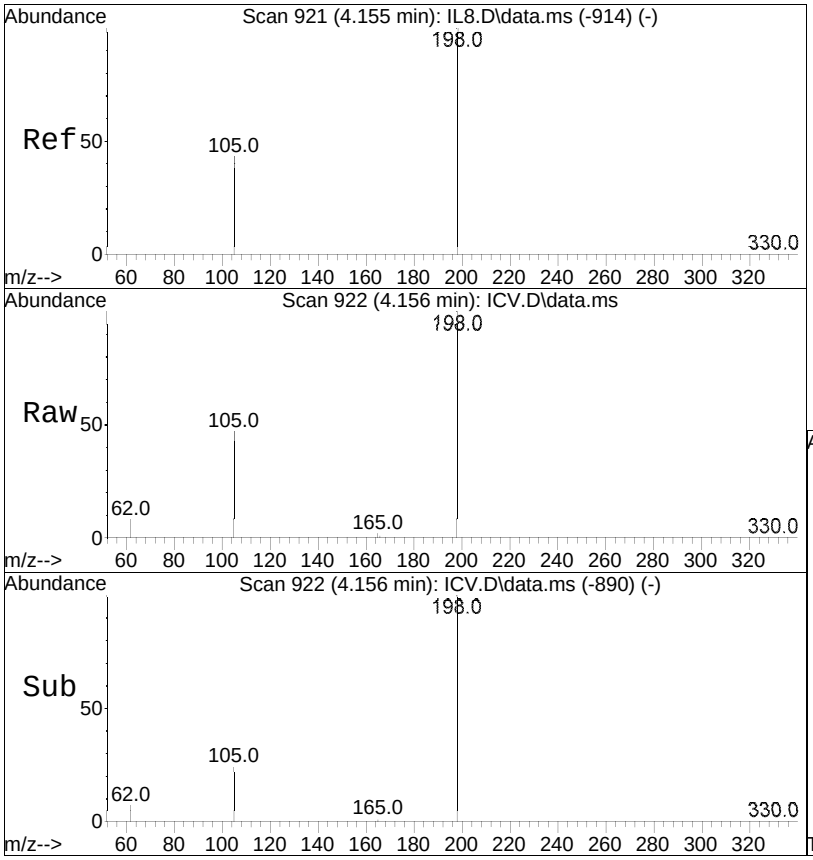


#20
Fluorene
Concen: 936.23 ng/ml
RT: 4.126 min Scan# 910
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:166 Resp: 250469

Ion	Ratio	Lower	Upper
166	100		
165	102.1	81.5	122.3

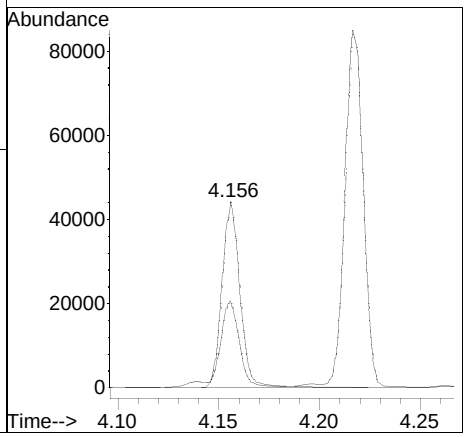


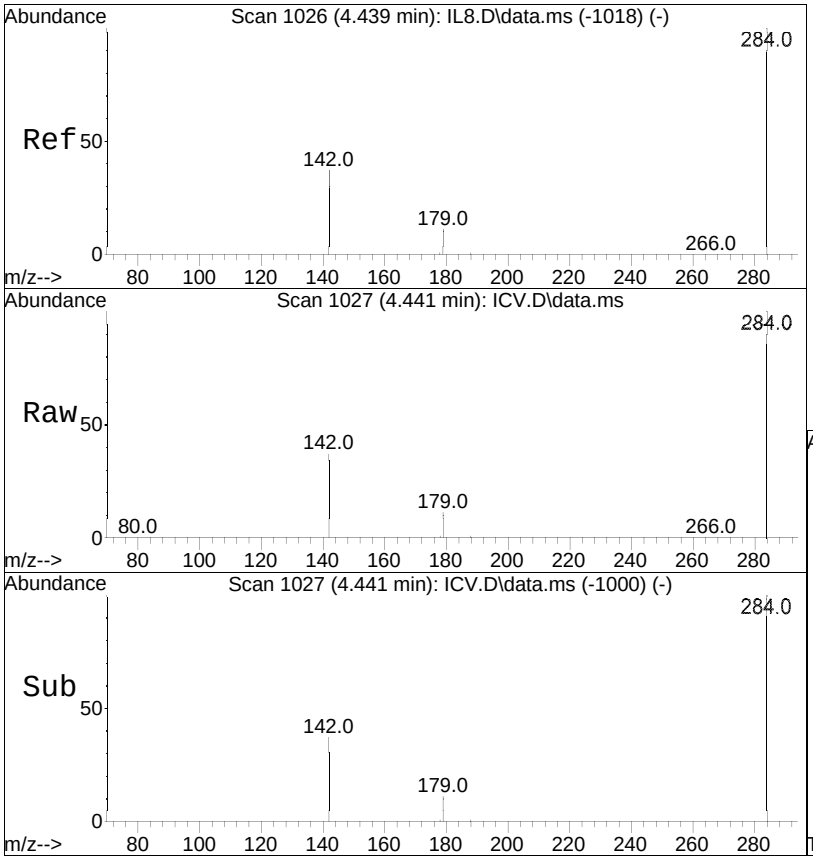


#23
4,6-Dinitro-o-cresol
Concen: 840.76 ng/ml
RT: 4.156 min Scan# 922
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:198 Resp: 27377

Ion	Ratio	Lower	Upper
198	100		
105	45.9	36.2	54.2

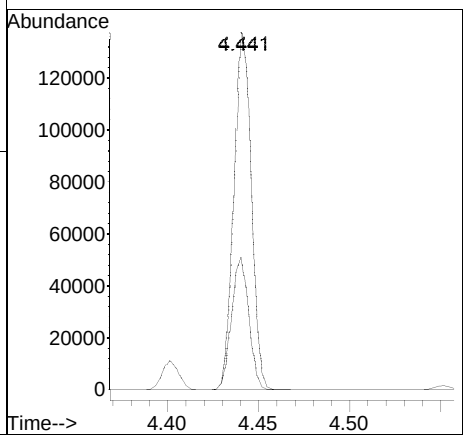


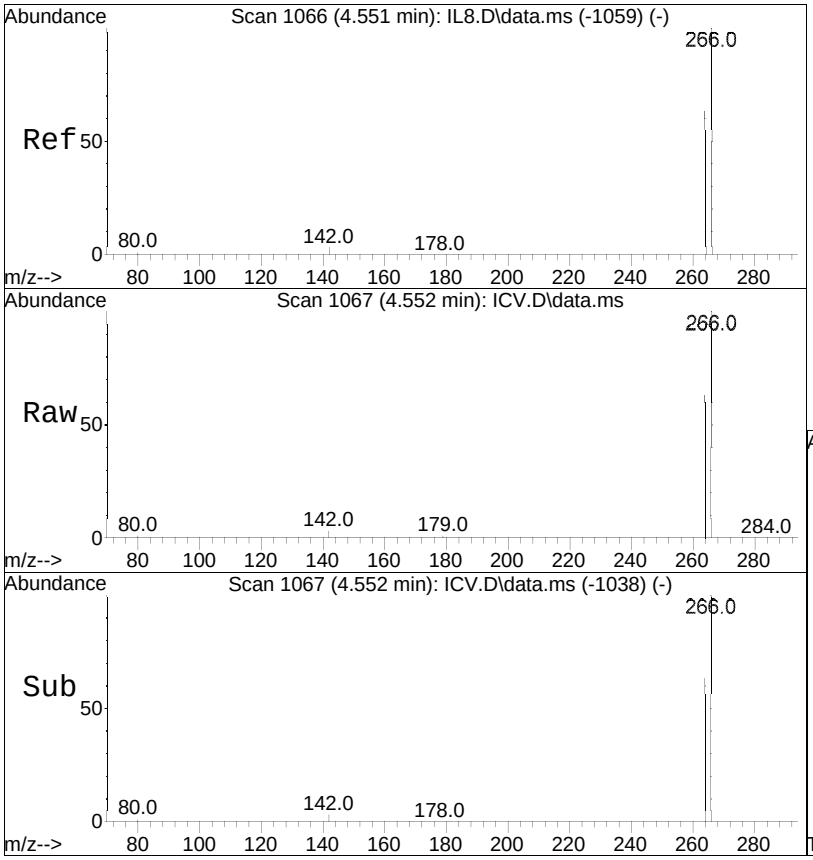


#24
Hexachlorobenzene
Concen: 911.50 ng/ml
RT: 4.441 min Scan# 1027
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:284 Resp: 90272

Ion	Ratio	Lower	Upper
284	100		
142	36.7	29.4	44.2

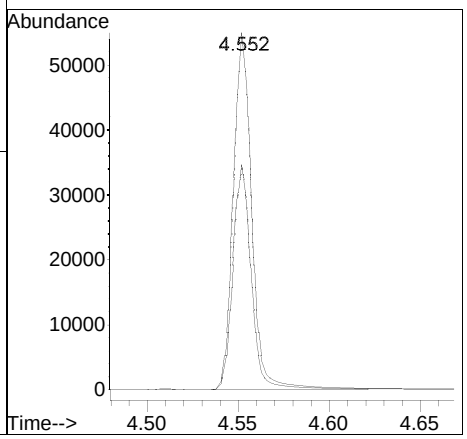


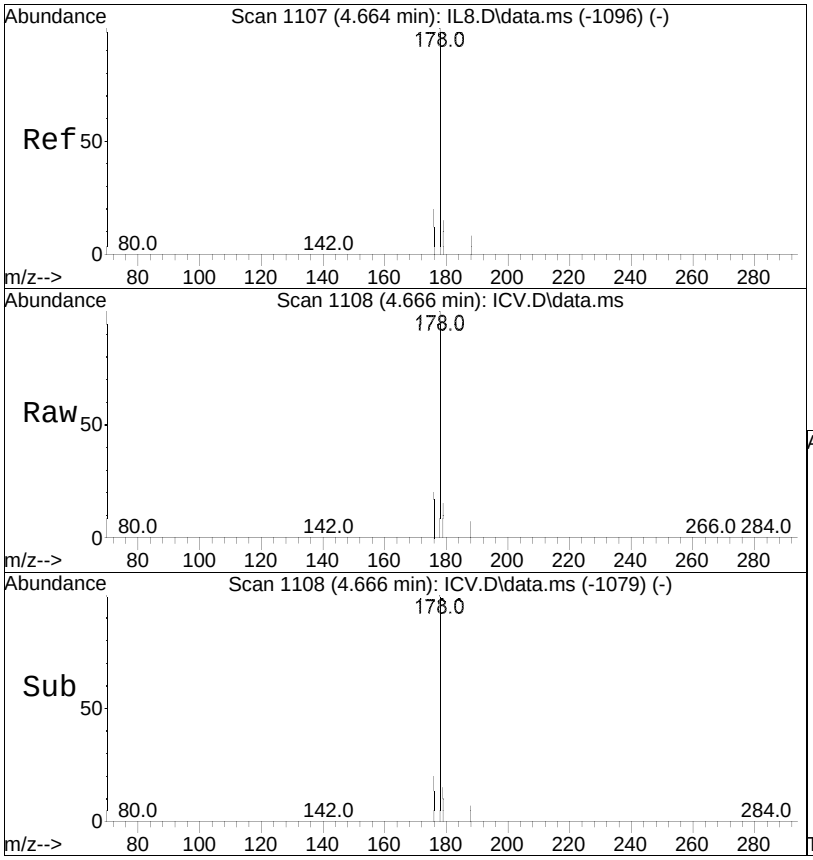


#25
Pentachlorophenol
Concen: 854.81 ng/ml
RT: 4.552 min Scan# 1067
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:266 Resp: 38488

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.2	75.4

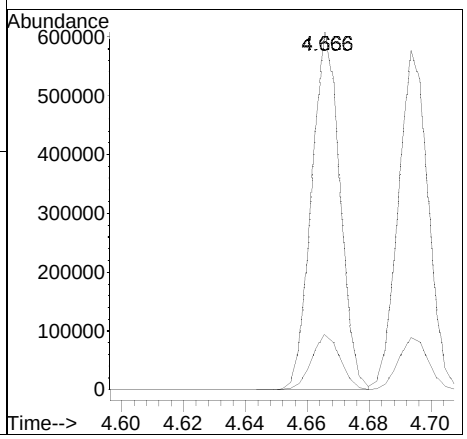


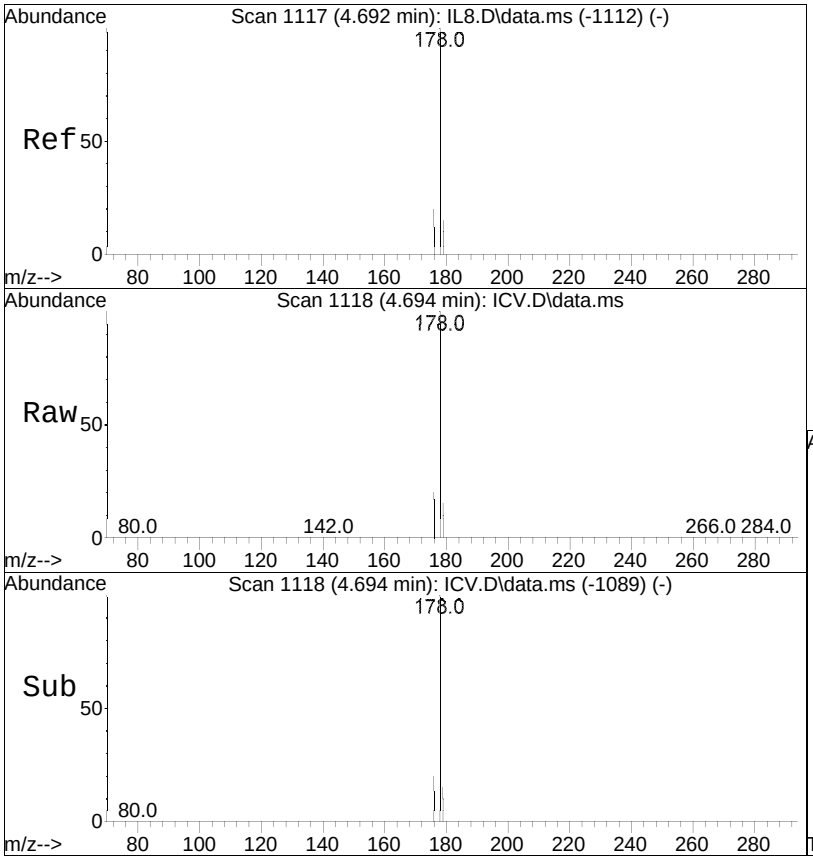


#26
Phenanthrene
Concen: 926.68 ng/ml
RT: 4.666 min Scan# 1108
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:178 Resp: 388665

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

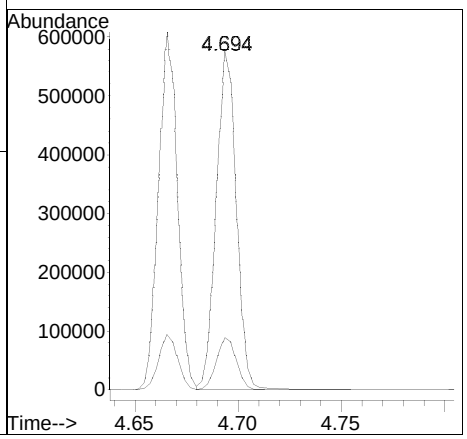


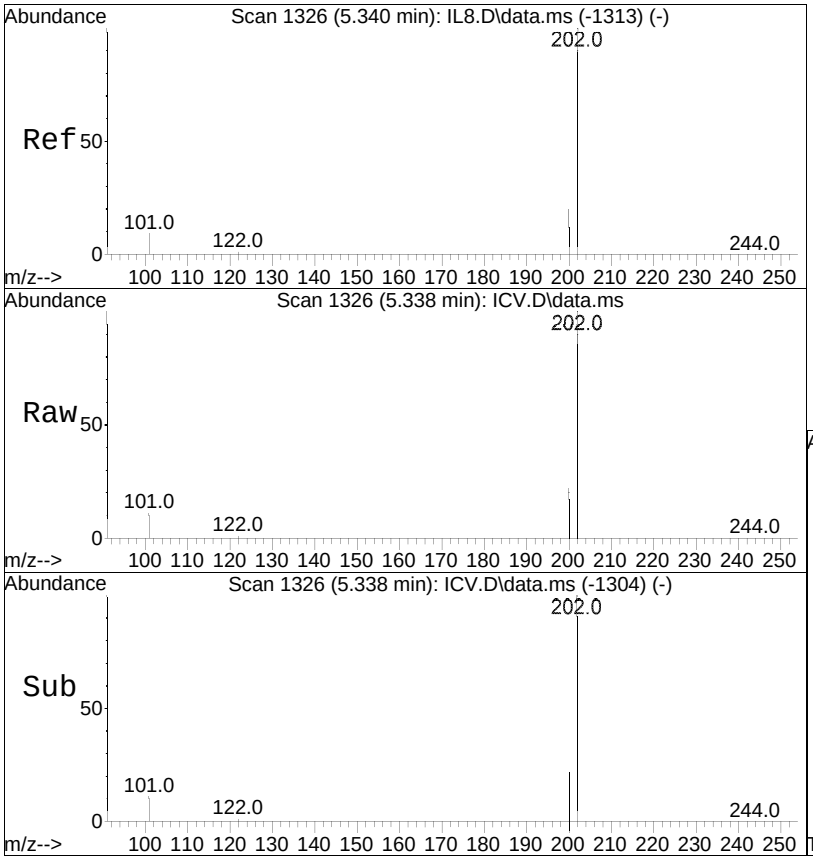


#27
Anthracene
Concen: 962.68 ng/ml
RT: 4.694 min Scan# 1118
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:178 Resp: 389545

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

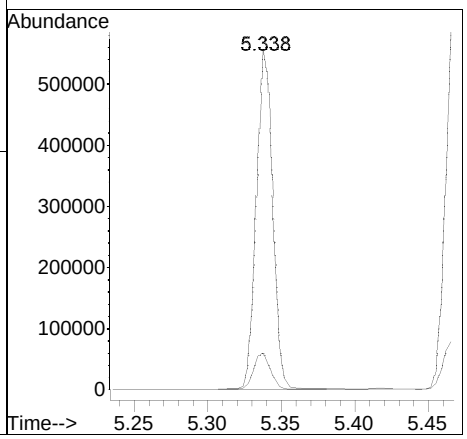


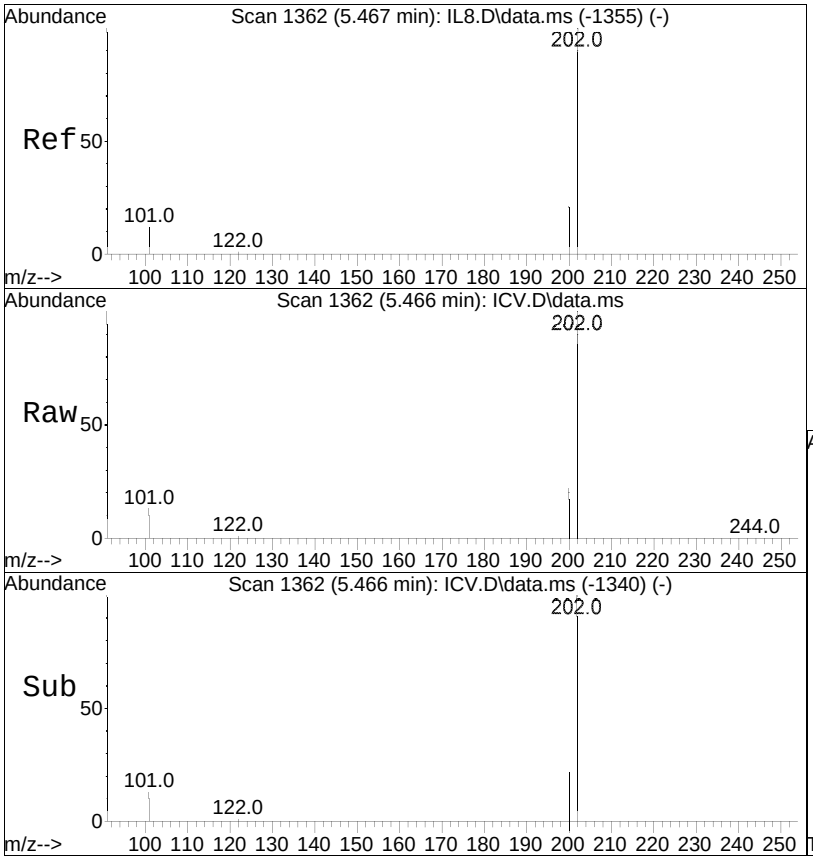


#28
Fluoranthene
Concen: 956.01 ng/ml
RT: 5.338 min Scan# 1326
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:202 Resp: 433244

Ion	Ratio	Lower	Upper
202	100		
101	11.0	8.7	13.1

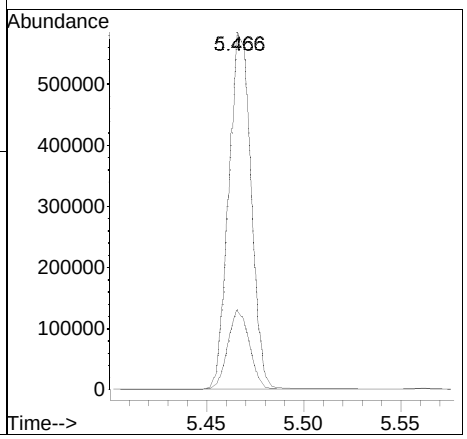


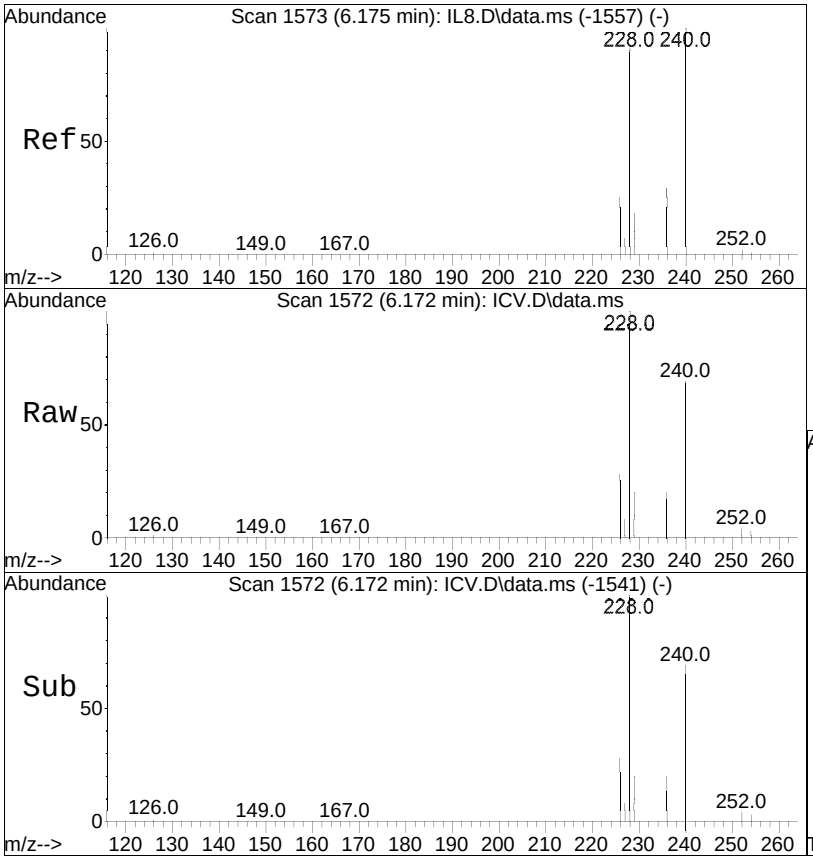


#29
Pyrene
Concen: 981.31 ng/ml
RT: 5.466 min Scan# 1362
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:202 Resp: 463317

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2

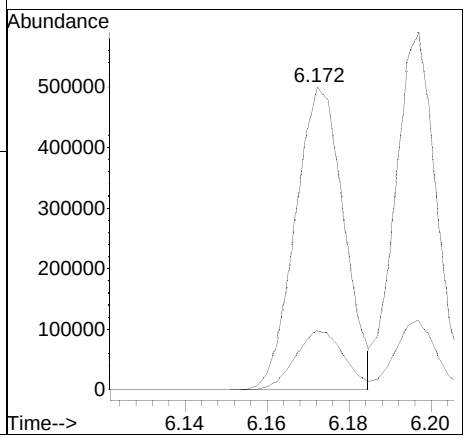


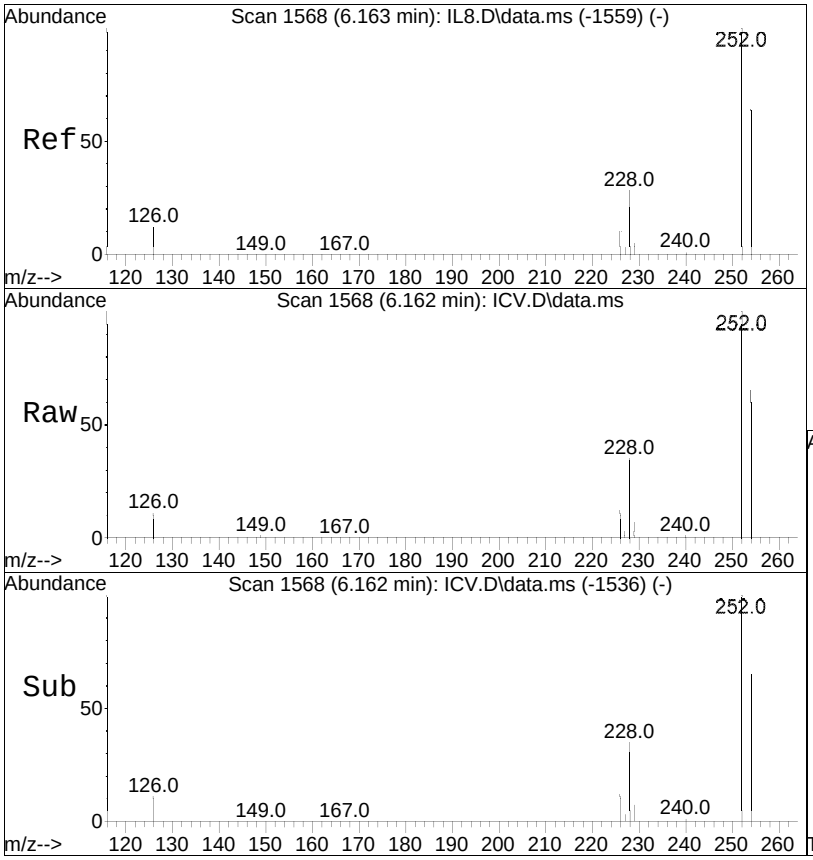


#32
Benzo[a]anthracene
Concen: 928.25 ng/ml
RT: 6.172 min Scan# 1572
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:228 Resp: 411974

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.8	23.6

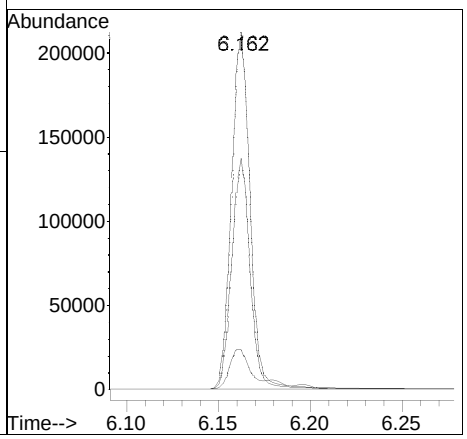


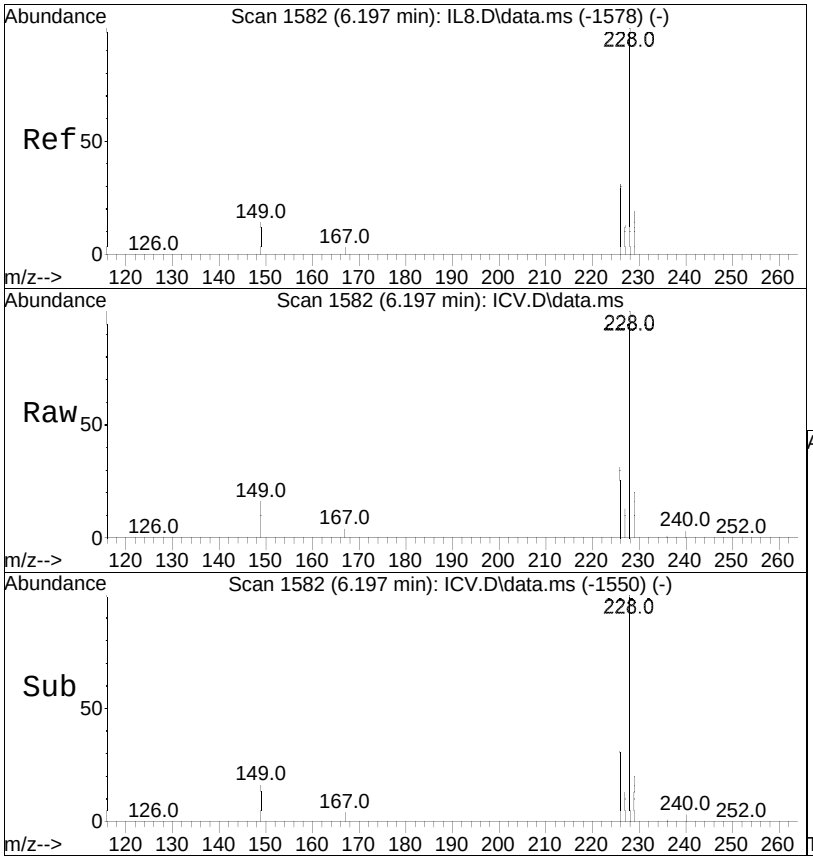


#33
3,3'-Dichlorobenzene
Concen: 900.16 ng/ml
RT: 6.162 min Scan# 1568
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:252 Resp: 147041

Ion	Ratio	Lower	Upper
252	100		
126	12.6	11.7	17.5
254	64.6	51.4	77.2

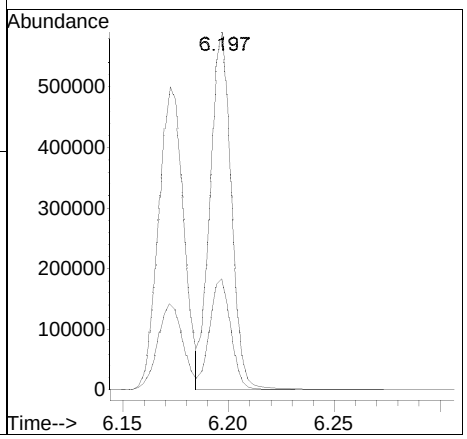


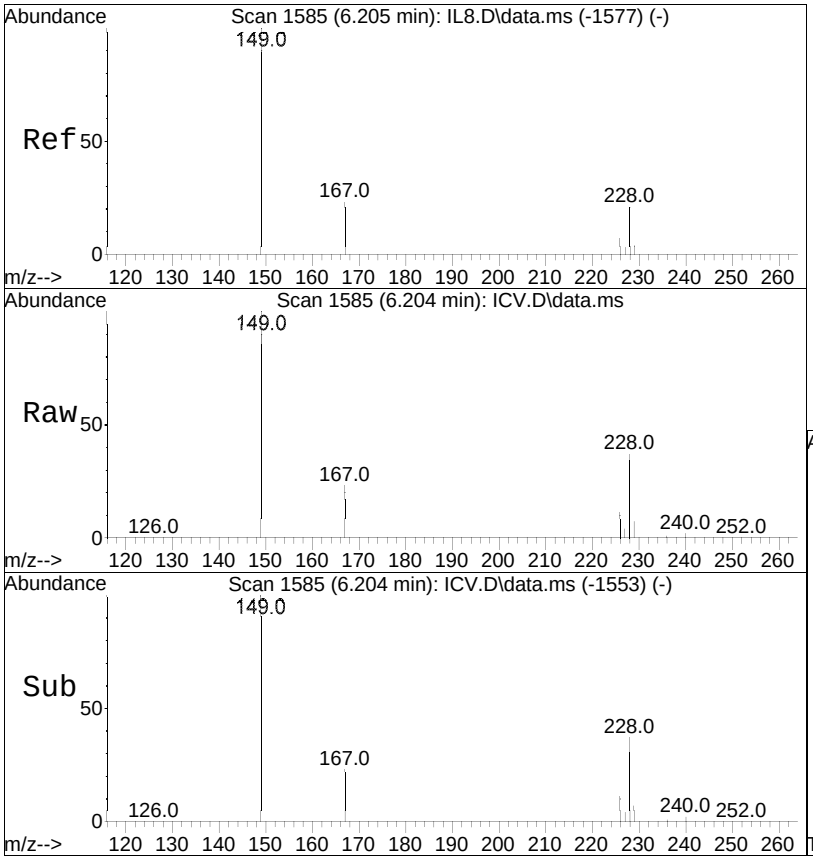


#34
Chrysene
Concen: 961.43 ng/ml
RT: 6.197 min Scan# 1582
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:228 Resp: 409505

Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.7	38.5

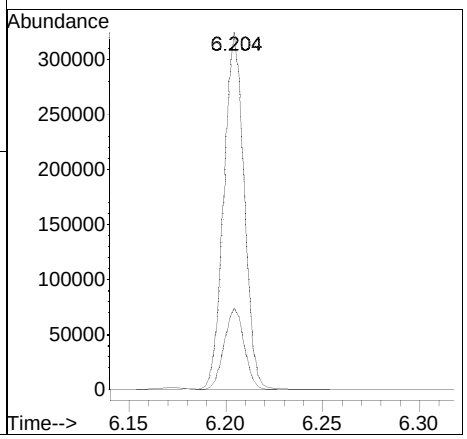


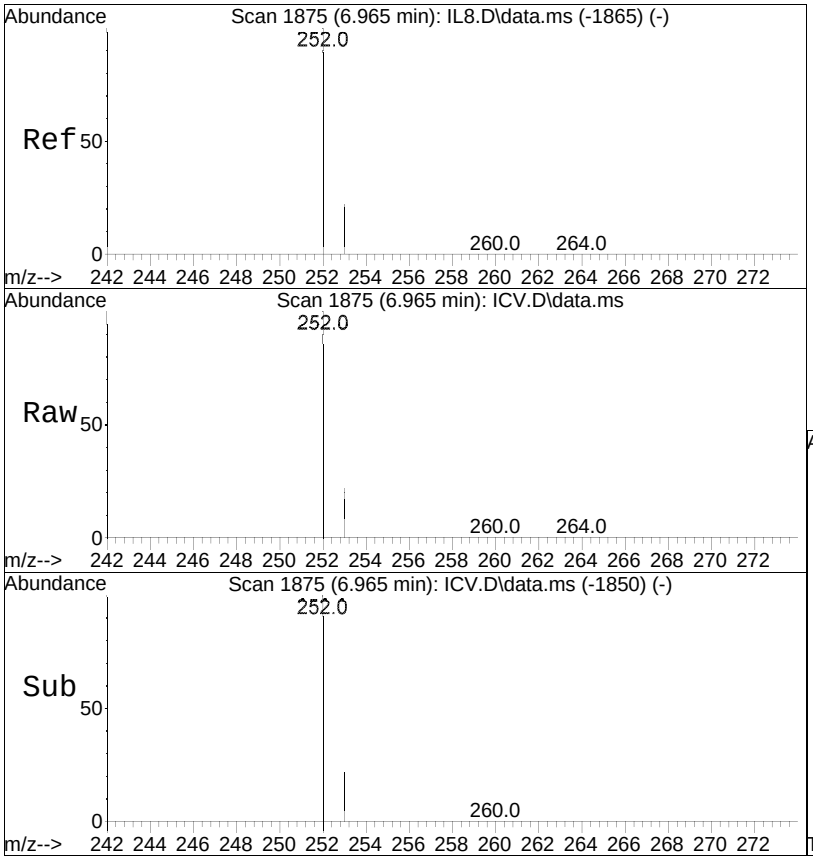


#35
Bis(2-ethylhexyl)phthalate
Concen: 881.23 ng/ml
RT: 6.204 min Scan# 1585
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:149 Resp: 232887

Ion	Ratio	Lower	Upper
149	100		
167	22.8	18.5	27.7

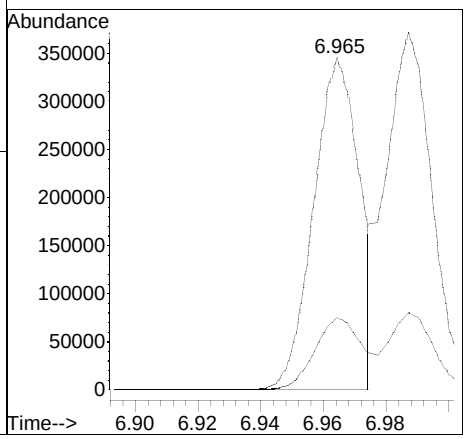


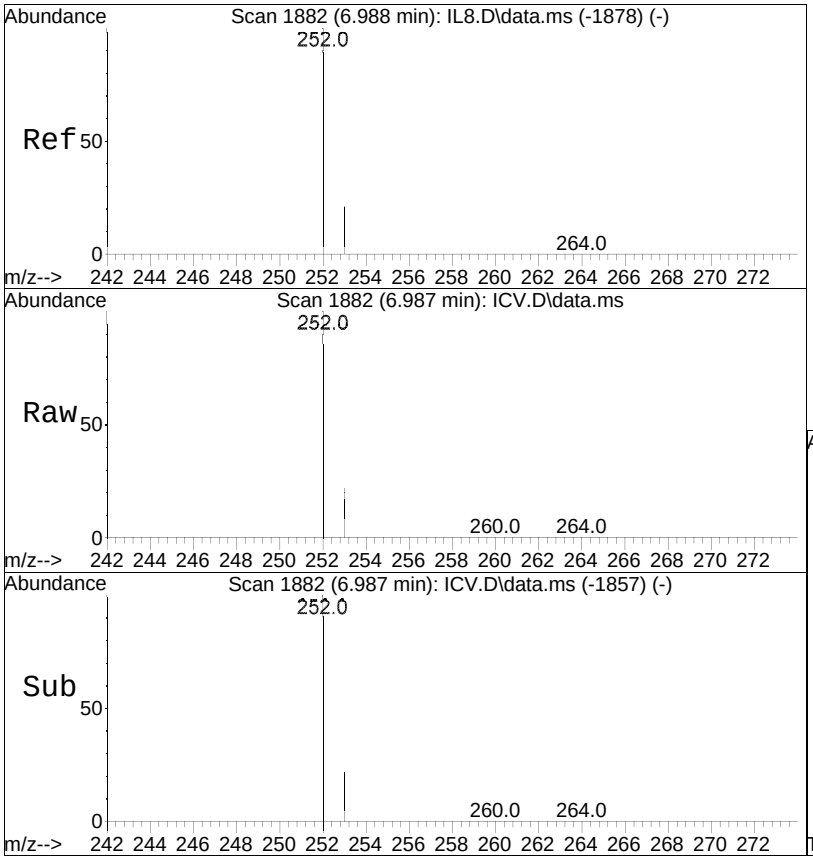


#37
Benzo[b]fluoranthene
Concen: 932.91 ng/ml
RT: 6.965 min Scan# 1875
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:252 Resp: 351549

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.3	25.9

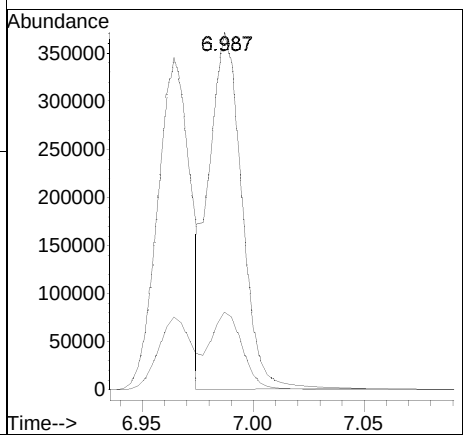


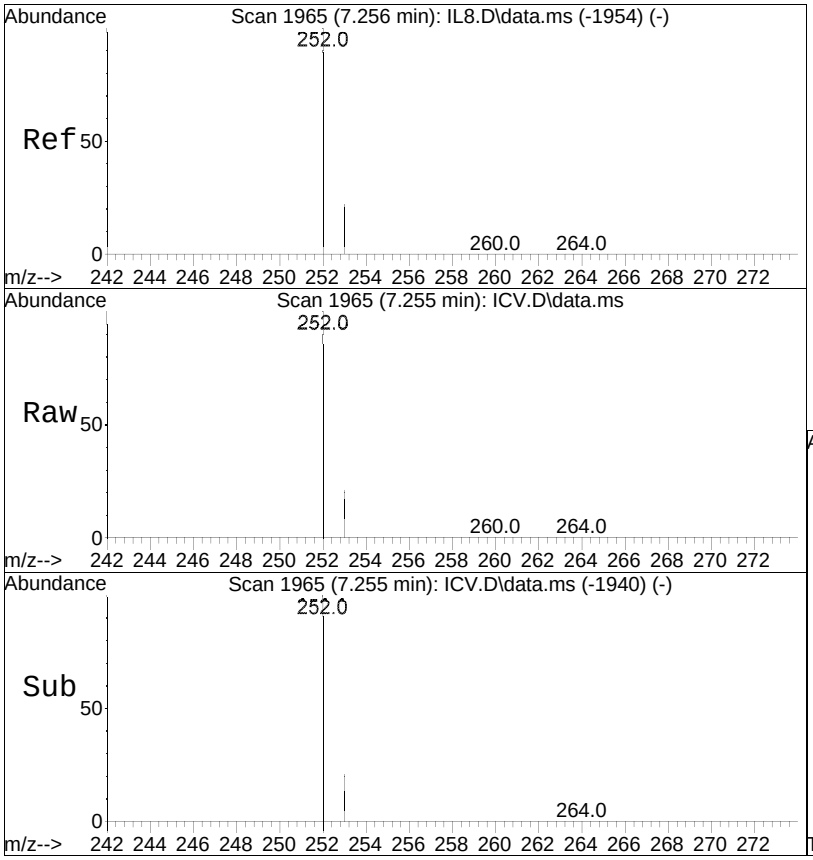


#38
Benzo[k]fluoranthene
Concen: 1070.22 ng/ml
RT: 6.987 min Scan# 1882
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:252 Resp: 379963

Ion	Ratio	Lower	Upper
252	100		
253	20.1	17.6	26.4

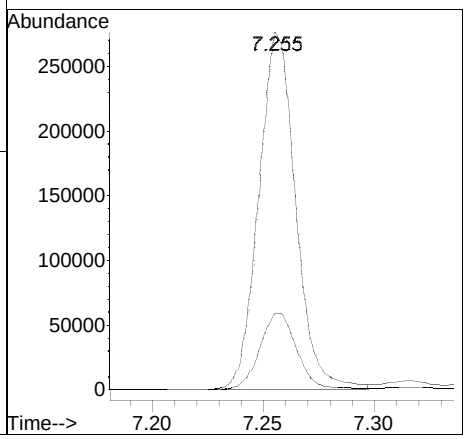


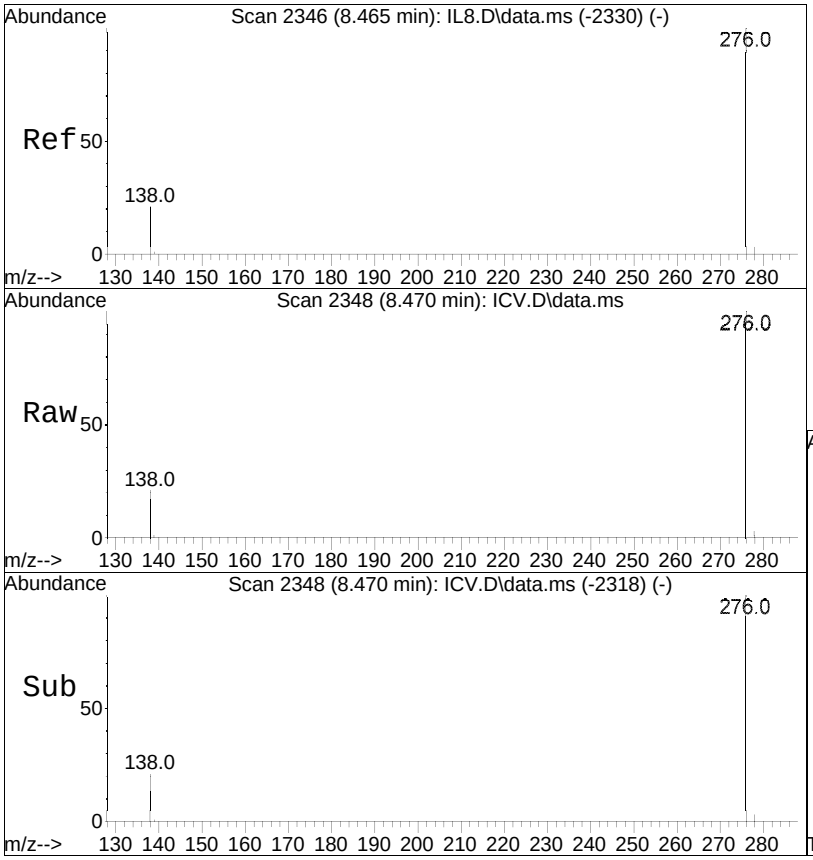


#39
Benzo[a]pyrene
Concen: 1048.38 ng/ml
RT: 7.255 min Scan# 1965
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:252 Resp: 315948

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

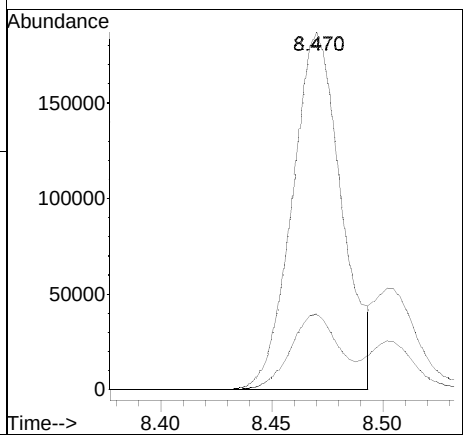


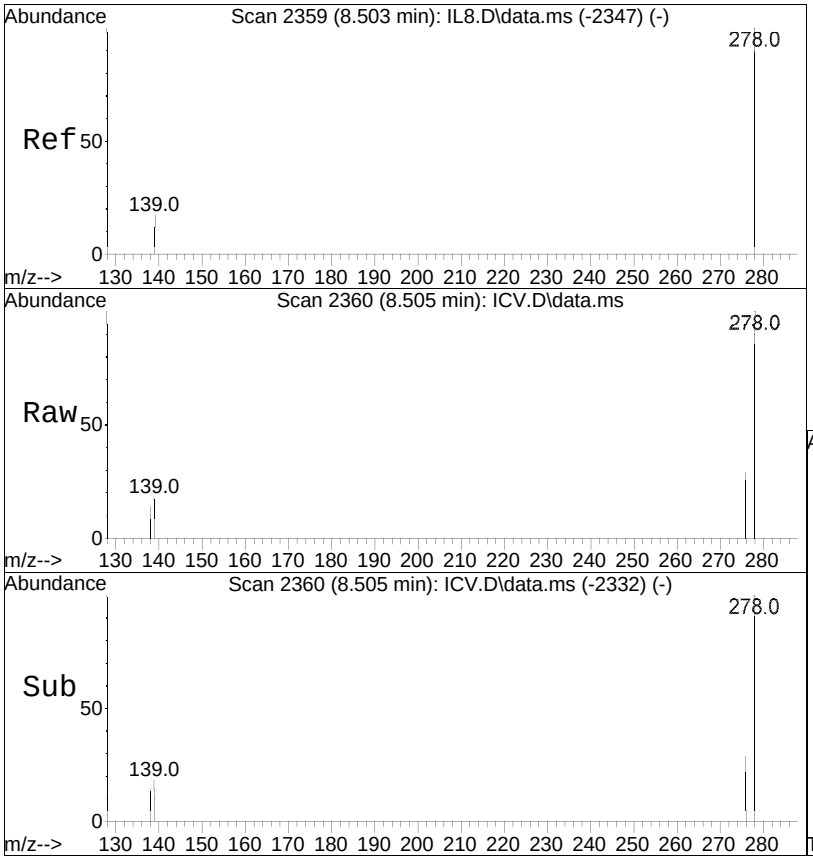


#40
Indeno[1,2,3-cd]pyrene
Concen: 1016.03 ng/ml
RT: 8.470 min Scan# 2348
Delta R.T. 0.005 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:276 Resp: 286922

Ion	Ratio	Lower	Upper
276	100		
138	20.9	17.2	25.8

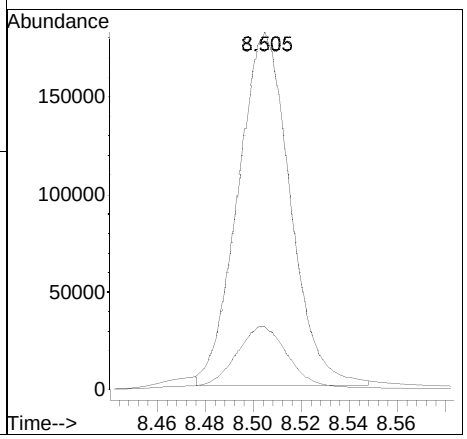


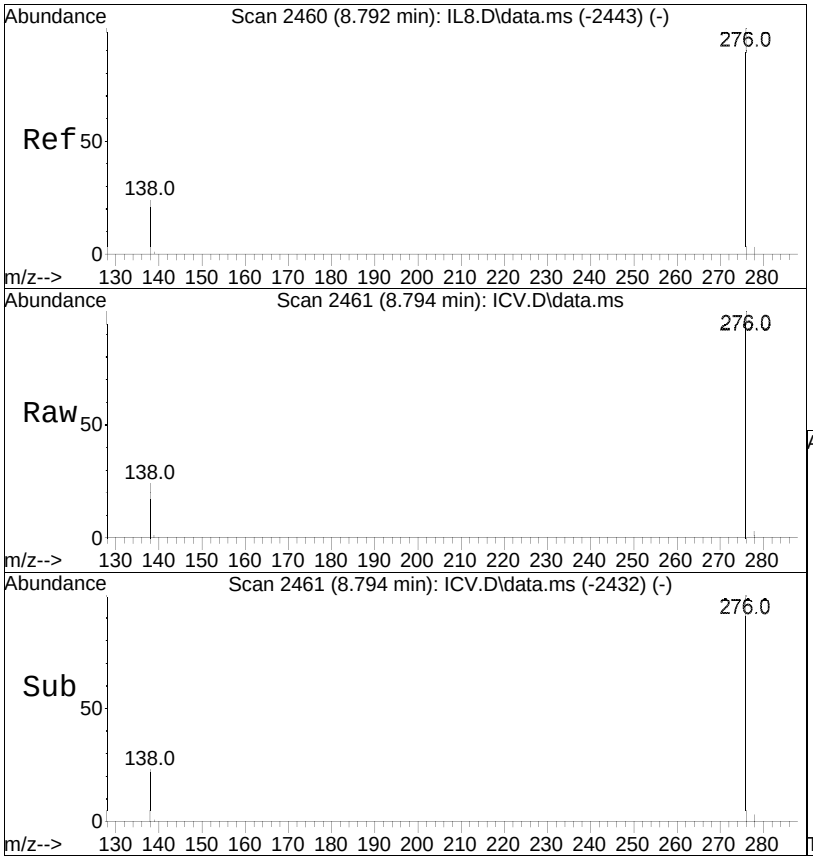


#41
Dibenzo[a,h]anthracene
Concen: 1028.97 ng/ml M6
RT: 8.505 min Scan# 2360
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:278 Resp: 272700

Ion	Ratio	Lower	Upper
278	100		
139	19.2	14.7	22.1

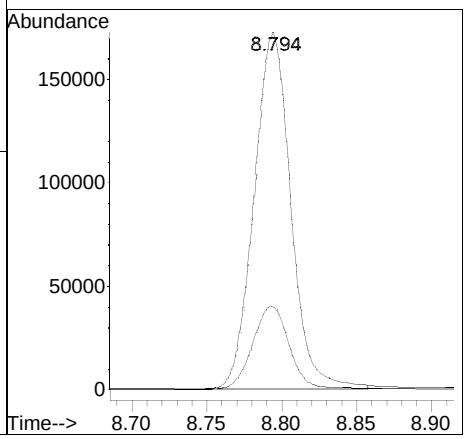




#42
Benzo[g,h,i]perylene
Concen: 1007.13 ng/ml
RT: 8.794 min Scan# 2461
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 28 Jul 2024 07:31 pm

Tgt Ion:276 Resp: 290717

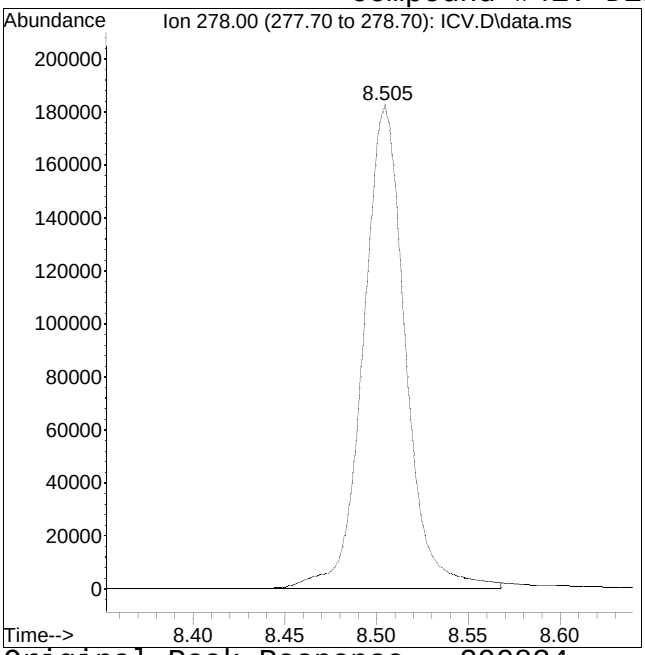
Ion	Ratio	Lower	Upper
276	100		
138	23.6	19.0	28.4



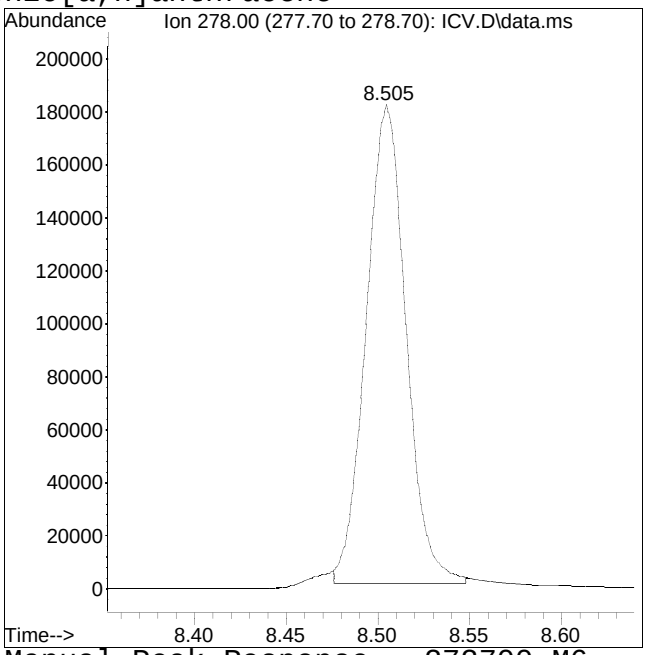
Manual Integration Report

Data Path : I:\8270SIM\sv120\240728RVTQ
Data File : ICV.D
Date Inj'd : 7/28/2024 7:31 pm
Sample : CQICV,32,,1000.0ng/mL lot
Method : SIM-RVT_240728_sv120.M
Operator : SV120:jjw
Instrument : SV120
Quant Date : 8/7/2024 2:45 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 290834



Manual Peak Response = 272700 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Relative Error Report SV120

Method Path : I:\8270SIM\sv120\240728RVTical\
Method File : SIM-RVT_240728_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Aug 05 16:14:31 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
15 T	2,6-Dinitrotoluene	L	ng/ml	1000.0	942.430	-5.8	40.00	47.804	19.5
19 T	2,4-Dinitrotoluene	L	ng/ml	1000.0	946.468	-5.4	40.00	47.731	19.3
23 T	4,6-Dinitro-o-cresol	Q	ng/ml	1000.0	971.756	-2.8	40.00	47.181	18.0
25 T	Pentachlorophenol	Q	ng/ml	1000.0	966.909	-3.3	40.00	50.161	25.4
32 T	Benzo[a]anthracene	L	ng/ml	1000.0	989.451	-1.1	5.00	5.708	14.2
33 T	3,3'-Dichlorobenzene	L	ng/ml	1000.0	931.220	-6.9	40.00	48.551	21.4
35 T	Bis(2-ethylhexyl)phthalate	Q	ng/ml	1000.0	973.291	-2.7	40.00	47.532	18.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
15 T	2,6-Dinitrotoluene	Linear	0.998470	0.000000	0.167136	-0.000940123
19 T	2,4-Dinitrotoluene	Linear	0.998715	0.000000	0.402049	-0.00241458
23 T	4,6-Dinitro-o-cresol	Quadratic	0.998721	0.017163	0.0918702	-0.000685645
25 T	Pentachlorophenol	Quadratic	0.997264	0.031614	0.126484	-0.00122468
32 T	Benzo[a]anthracene	Linear	0.999835	0.000000	1.50398	0.00277716
33 T	3,3'-Dichlorobenzene	Linear	0.998266	0.000000	0.57304	-0.00339576
35 T	Bis(2-ethylhexyl)phthalate	Quadratic	0.998646	0.162559	0.891426	-0.00541152

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 09/24/24 08:20		
Lab File ID	: CCV0924	**Init. Calib. Date(s)**	: 07/28/24	07/28/24	
Sample No	: WG1975659-3	**Init. Calib. Times**	: 16:50	19:15	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	59	0
2-Fluorophenol	1.188	1.214	.05	-2.2	20	61	0
Phenol-d6	1.445	1.471	.05	-1.8	20	61	0
Bis(2-chloroethyl)ether	1.315	1.203	.05	8.5	20	57	0
n-nitrosodi-n-propylamine	0.87	0.893	.05	-2.6	20	60	0
Hexachloroethane	0.561	0.513	.05	8.6	20	55	0
Nitrobenzene-d5	1.176	1.306	.05	-11.1	20	64	0
Naphthalene-d8	1	1	.05	0	20	59	0
Naphthalene	1.149	0.971	.05	15.5	20	54	0
Hexachlorobutadiene	0.197	0.193	.05	2	20	60	0
2-Methylnaphthalene	0.729	0.667	.05	8.5	20	55	0
1-Methylnaphthalene	0.68	0.611	.05	10.1	20	55	0
2-Fluorobiphenyl	0.862	0.776	.05	10	20	56	0
2-Chloronaphthalene	0.741	0.675	.05	8.9	20	55	0
2,6-Dinitrotoluene	1000	1044.048	.05	-4.4	20	66	0
Acenaphthylene	1.063	1.043	.05	1.9	20	55	0
Acenaphthene-d10	1	1	.05	0	20	61	0
Acenaphthene	1.442	1.208	.05	16.2	20	54	0
2,4-Dinitrotoluene	1000	1049.203	.05	-4.9	20	68	0
Fluorene	1.598	1.389	.05	13.1	20	55	0
2,4,6-Tribromophenol	0.22	0.239	.05	-8.6	20	61	0
Phenanthrene-d10	1	1	.05	0	20	62	0
4,6-Dinitro-o-cresol	1000	1221.136	.05	-22.1*	20	79	0
Hexachlorobenzene	0.28	0.242	.05	13.6	20	56	0
Pentachlorophenol	1000	1023.029	.05	-2.3	20	65	0
Phenanthrene	1.188	1.018	.05	14.3	20	55	0
Anthracene	1.146	1.045	.05	8.8	20	56	0
Fluoranthene	1.283	1.203	.05	6.2	20	58	0
Pyrene	1.337	1.28	.05	4.3	20	58	0
4-Terphenyl-d14	0.838	0.732	.05	12.6	20	55	0
Chrysene-d12	1	1	.05	0	20	66	0
Benzo[a]anthracene	1000	837.702	.05	16.2	20	56	0
3,3'-Dichlorobenzene	1000	940.509	.05	5.9	20	67	0
Chrysene	1.455	1.23	.05	15.5	20	57	0
Bis(2-ethylhexyl)phthalate	1000	871.59	.05	12.8	20	59	0
Perylene-d12	1	1	.05	0	20	66	0
Benzo[b]fluoranthene	1.35	1.242	.05	8	20	61	0
Benzo[k]fluoranthene	1.272	1.164	.05	8.5	20	55	0
Benzo[a]pyrene	1.08	1.089	.05	-0.8	20	60	0
Indeno[1,2,3-cd]pyrene	1.012	1.093	.05	-8	20	67	0
Dibenzo[a,h]anthracene	0.95	1.02	.05	-7.4	20	64	0
Benzo[g,h,i]perylene	1.034	1.023	.05	1.1	20	61	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 09/24/24 11:50		
Lab File ID	: CCV0924A	**Init. Calib. Date(s)**	: 06/21/24	06/21/24	
Sample No	: WG1975503-3	**Init. Calib. Times**	: 14:50	17:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	194	0
2-Fluorophenol	1.411	1.218	.05	13.7	20	167	0
Phenol-d6	1.78	1.708	.05	4	20	179	0
Bis(2-chloroethyl)ether	1.43	1.366	.05	4.5	20	186	0
n-nitrosodi-n-propylamine	1.088	1.055	.05	3	20	177	0
Hexachloroethane	0.664	0.574	.05	13.6	20	172	0
Nitrobenzene-d5	1.561	1.499	.05	4	20	178	0
Naphthalene-d8	1	1	.05	0	20	188	0
Naphthalene	1.104	1.01	.05	8.5	20	175	0
Hexachlorobutadiene	0.248	0.21	.05	15.3	20	165	0
2-Methylnaphthalene	0.83	0.755	.05	9	20	167	0
1-Methylnaphthalene	0.802	0.684	.05	14.7	20	166	0
2-Fluorobiphenyl	1.034	0.891	.05	13.8	20	170	0
2-Chloronaphthalene	0.894	0.802	.05	10.3	20	171	0
2,6-Dinitrotoluene	0.241	0.216	.05	10.4	20	157	0
Acenaphthylene	1.429	1.178	.05	17.6	20	156	0
Acenaphthene-d10	1	1	.05	0	20	187	0
Acenaphthene	1.396	1.27	.05	9	20	171	0
2,4-Dinitrotoluene	0.535	0.5	.05	6.5	20	157	0
Fluorene	1.84	1.58	.05	14.1	20	164	0
2,4,6-Tribromophenol	0.279	0.226	.05	19	20	136	0
Phenanthrene-d10	1	1	.05	0	20	164	0
4,6-Dinitro-o-cresol	1000	957.787	.05	4.2	20	158	0
Hexachlorobenzene	0.275	0.235	.05	14.5	20	147	0
Pentachlorophenol	1000	906.928	.05	9.3	20	142	0
Phenanthrene	1.163	1.056	.05	9.2	20	155	0
Anthracene	1.201	1.13	.05	5.9	20	154	0
Fluoranthene	1.597	1.338	.05	16.2	20	147	0
Pyrene	1.655	1.389	.05	16.1	20	149	0
4-Terphenyl-d14	1.106	0.775	.05	29.9*	20	124	0
Chrysene-d12	1	1	.05	0	20	167	0
Benzo[a]anthracene	1000	898.106	.05	10.2	20	141	0
3,3'-Dichlorobenzene	0.611	0.611	.05	0	20	155	0
Chrysene	1.489	1.26	.05	15.4	20	139	0
Bis(2-ethylhexyl)phthalate	1000	841.823	.05	15.8	20	139	0
Perylene-d12	1	1	.05	0	20	152	0
Benzo[b]fluoranthene	1.657	1.369	.05	17.4	20	129	0
Benzo[k]fluoranthene	1.531	1.32	.05	13.8	20	143	0
Benzo[a]pyrene	1.467	1.259	.05	14.2	20	133	0
Indeno[1,2,3-cd]pyrene	1.483	1.227	.05	17.3	20	126	0
Dibenzo[a,h]anthracene	1.321	1.093	.05	17.3	20	129	0
Benzo[g,h,i]perylene	1.459	1.156	.05	20.8*	20	126	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 09/25/24 08:17		
Lab File ID	: CCV0925	**Init. Calib. Date(s)**	: 06/21/24	06/21/24	
Sample No	: WG1976035-3	**Init. Calib. Times**	: 14:50	17:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	103	0
2-Fluorophenol	1.411	1.169	.05	17.2	20	85	0
Phenol-d6	1.78	1.553	.05	12.8	20	86	0
Bis(2-chloroethyl)ether	1.43	1.198	.05	16.2	20	87	0
n-nitrosodi-n-propylamine	1.088	0.92	.05	15.4	20	82	0
Hexachloroethane	0.664	0.508	.05	23.5*	20	81	0
Nitrobenzene-d5	1.561	1.336	.05	14.4	20	84	0
Naphthalene-d8	1	1	.05	0	20	98	0
Naphthalene	1.104	0.964	.05	12.7	20	87	0
Hexachlorobutadiene	0.248	0.228	.05	8.1	20	94	0
2-Methylnaphthalene	0.83	0.753	.05	9.3	20	87	0
1-Methylnaphthalene	0.802	0.675	.05	15.8	20	86	0
2-Fluorobiphenyl	1.034	0.95	.05	8.1	20	95	0
2-Chloronaphthalene	0.894	0.827	.05	7.5	20	92	0
2,6-Dinitrotoluene	0.241	0.229	.05	5	20	87	0
Acenaphthylene	1.429	1.206	.05	15.6	20	84	0
Acenaphthene-d10	1	1	.05	0	20	103	0
Acenaphthene	1.396	1.2	.05	14	20	89	0
2,4-Dinitrotoluene	0.535	0.5	.05	6.5	20	86	0
Fluorene	1.84	1.549	.05	15.8	20	88	0
2,4,6-Tribromophenol	0.279	0.256	.05	8.2	20	85	0
Phenanthrene-d10	1	1	.05	0	20	95	0
4,6-Dinitro-o-cresol	1000	952.964	.05	4.7	20	91	0
Hexachlorobenzene	0.275	0.238	.05	13.5	20	86	0
Pentachlorophenol	1000	829.905	.05	17	20	75	0
Phenanthrene	1.163	0.996	.05	14.4	20	84	0
Anthracene	1.201	1.075	.05	10.5	20	84	0
Fluoranthene	1.597	1.358	.05	15	20	86	0
Pyrene	1.655	1.4	.05	15.4	20	87	0
4-Terphenyl-d14	1.106	0.868	.05	21.5*	20	80	0
Chrysene-d12	1	1	.05	0	20	107	0
Benzo[a]anthracene	1000	859.337	.05	14.1	20	86	0
3,3'-Dichlorobenzene	0.611	0.624	.05	-2.1	20	101	0
Chrysene	1.489	1.187	.05	20.3*	20	84	0
Bis(2-ethylhexyl)phthalate	1000	738.247	.05	26.2*	20	77	0
Perylene-d12	1	1	.05	0	20	105	0
Benzo[b]fluoranthene	1.657	1.301	.05	21.5*	20	84	0
Benzo[k]fluoranthene	1.531	1.231	.05	19.6	20	92	0
Benzo[a]pyrene	1.467	1.216	.05	17.1	20	88	0
Indeno[1,2,3-cd]pyrene	1.483	1.303	.05	12.1	20	92	0
Dibenzo[a,h]anthracene	1.321	1.097	.05	17	20	89	0
Benzo[g,h,i]perylene	1.459	1.166	.05	20.1*	20	87	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : ccv0924.D
Acq On : 24 Sep 2024 08:20 am
Operator : SV120:mrg
Sample : WG1975659-3,32,,ICV 10884 (0921)
Misc : WG1975659,,ICAL21368
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 24 08:35:15 2024
Quant Method : I:\8270SIM\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:16 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	59	0.00
2	s	2-Fluorophenol	1.188	1.214	-2.2	61	0.00
3	s	Phenol-d6	1.445	1.471	-1.8	61	0.00
4	T	Bis(2-chloroethyl)ether	1.315	1.203	8.5	57	0.00
5	T	n-nitrosodi-n-propylamine	0.870	0.893	-2.6	60	0.00
6	t	Hexachloroethane	0.561	0.513	8.6	55	0.00
7	s	Nitrobenzene-d5	1.176	1.306	-11.1	64	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	59	0.00
9	t	Naphthalene	1.149	0.971	15.5	54	0.00
10	t	Hexachlorobutadiene	0.197	0.193	2.0	60	0.00
11	t	2-Methylnaphthalene	0.729	0.667	8.5	55	0.00
12	t	1-Methylnaphthalene	0.680	0.611	10.1	55	0.00
13	s	2-Fluorobiphenyl	0.862	0.776	10.0	56	0.00
14	t	2-Chloronaphthalene	0.741	0.675	8.9	55	0.00
15	t	2,6-Dinitrotoluene	*1000.000	1044.048	-4.4	66	0.00
16	t	Acenaphthylene	1.063	1.043	1.9	55	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	61	0.00
18	t	Acenaphthene	1.442	1.208	16.2	54	0.00
19	t	2,4-Dinitrotoluene	*1000.000	1049.203	-4.9	68	0.00
20	t	Fluorene	1.598	1.389	13.1	55	0.00
21	s	2,4,6-Tribromophenol	0.220	0.239	-8.6	61	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	62	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1221.136	-22.1#	79	0.00
24	t	Hexachlorobenzene	0.280	0.242	13.6	56	0.00
25	t	Pentachlorophenol	*1000.000	1023.029	-2.3	65	0.00
26	t	Phenanthrene	1.188	1.018	14.3	55	0.00
27	t	Anthracene	1.146	1.045	8.8	56	0.00
28	t	Fluoranthene	1.283	1.203	6.2	58	0.00
29	t	Pyrene	1.337	1.280	4.3	58	0.00
30	s	4-Terphenyl-d14	0.838	0.732	12.6	55	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	66	0.00
32	t	Benzo[a]anthracene	*1000.000	837.702	16.2	56	0.00
33	t	3,3'-Dichlorobenzene	*1000.000	940.509	5.9	67	0.00
34	t	Chrysene	1.455	1.230	15.5	57	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	871.590	12.8	59	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : ccv0924.D
Acq On : 24 Sep 2024 08:20 am
Operator : SV120:mrg
Sample : WG1975659-3,32,,ICV 10884 (0921)
Misc : WG1975659,,ICAL21368
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 24 08:35:15 2024
Quant Method : I:\8270SIM\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:16 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	66	0.00
37	t	Benzo[b]fluoranthene	1.350	1.242	8.0	61	0.00
38	t	Benzo[k]fluoranthene	1.272	1.164	8.5	55	0.00
39	t	Benzo[a]pyrene	1.080	1.089	-0.8	60	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.012	1.093	-8.0	67	0.00
41	t	Dibenzo[a,h]anthracene	0.950	1.020	-7.4	64	0.00
42	t	Benzo[g,h,i]perylene	1.034	1.023	1.1	61	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : ccv0924.D
Acq On : 24 Sep 2024 08:20 am
Operator : SV120:mrg
Sample : WG1975659-3,32,,ICV 10884 (0921)
Misc : WG1975659,,ICAL21368
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 24 08:35:15 2024
Quant Method : I:\8270SIM\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:16 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.096	152	198000	4000.000	ng/ml		0.00
8) Naphthalene-d8	2.753	136	762436	4000.000	ng/ml	#	0.00
17) Acenaphthene-d10	3.726	164	445852	4000.000	ng/ml		0.00
22) Phenanthrene-d10	4.562	188	924365	4000.000	ng/ml		0.00
31) Chrysene-d12	6.109	240	850035	4000.000	ng/ml		0.00
36) Perylene-d12	7.203	264	833768	4000.000	ng/ml		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	1.529	112	60101	1021.915	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 51.10%				
3) Phenol-d6	1.920	99	72825	1017.947	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 50.90%				
7) Nitrobenzene-d5	2.376	82	64655	1110.421	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 111.04%				
13) 2-Fluorobiphenyl	3.350	172	147971	900.605	ng/ml		0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 90.06%				
21) 2,4,6-Tribromophenol	4.171	330	26673	1086.645	ng/ml		0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 54.33%				
30) 4-Terphenyl-d14	5.482	244	169126	873.648	ng/ml		0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 43.68%				
Target Compounds							Qvalue
4) Bis(2-chloroethyl)ether	1.967	93	59561	914.986	ng/ml		86
5) n-nitrosodi-n-propylamine	2.299	70	44218	1026.626	ng/ml		98
6) Hexachloroethane	2.351	117	25405	914.640	ng/ml		90
9) Naphthalene	2.764	128	185045	845.193	ng/ml	#	100
10) Hexachlorobutadiene	2.839	225	36878	980.597	ng/ml		100
11) 2-Methylnaphthalene	3.144	142	127055	914.271	ng/ml		100
12) 1-Methylnaphthalene	3.197	142	116529	898.545	ng/ml		99
14) 2-Chloronaphthalene	3.413	162	128627	910.965	ng/ml		100
15) 2,6-Dinitrotoluene	3.613	165	32544	1044.048	ng/ml		96
16) Acenaphthylene	3.643	152	198828	980.878	ng/ml		99
18) Acenaphthene	3.743	153	134611	837.219	ng/ml		95
19) 2,4-Dinitrotoluene	3.840	165	45942	1049.203	ng/ml		93
20) Fluorene	4.033	166	154837	869.052	ng/ml		100
23) 4,6-Dinitro-o-cresol	4.070	198	26770	1221.136	ng/ml		99
24) Hexachlorobenzene	4.351	284	55843	861.593	ng/ml		93
25) Pentachlorophenol	4.464	266	30682	1023.029	ng/ml		100
26) Phenanthrene	4.573	178	235257	857.091	ng/ml		100
27) Anthracene	4.603	178	241429	911.680	ng/ml		100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : ccv0924.D
Acq On : 24 Sep 2024 08:20 am
Operator : SV120:mrg
Sample : WG1975659-3,32,,ICV 10884 (0921)
Misc : WG1975659,,ICAL21368
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 24 08:35:15 2024
Quant Method : I:\8270SIM\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:16 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.252	202	278026	937.443	ng/ml	99
29) Pyrene	5.382	202	295713	957.029	ng/ml	99
32) Benzo[a]anthracene	6.102	228	270095	837.702	ng/ml	100
33) 3,3'-Dichlorobenzene	6.095	252	111645	940.509	ng/ml	99
34) Chrysene	6.122	228	261328	845.257	ng/ml	97
35) Bis(2-ethylhexyl)phtha...	6.139	149	167071	871.590	ng/ml	97
37) Benzo[b]fluoranthene	6.863	252	258872	919.824	ng/ml	100
38) Benzo[k]fluoranthene	6.884	252	242600	914.930	ng/ml	100
39) Benzo[a]pyrene	7.141	252	226979	1008.450	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.308	276	227880	1080.474	ng/ml	98
41) Dibenzo[a,h]anthracene	8.340	278	212701M6	1074.613	ng/ml	
42) Benzo[g,h,i]perylene	8.620	276	213233	989.093	ng/ml	99

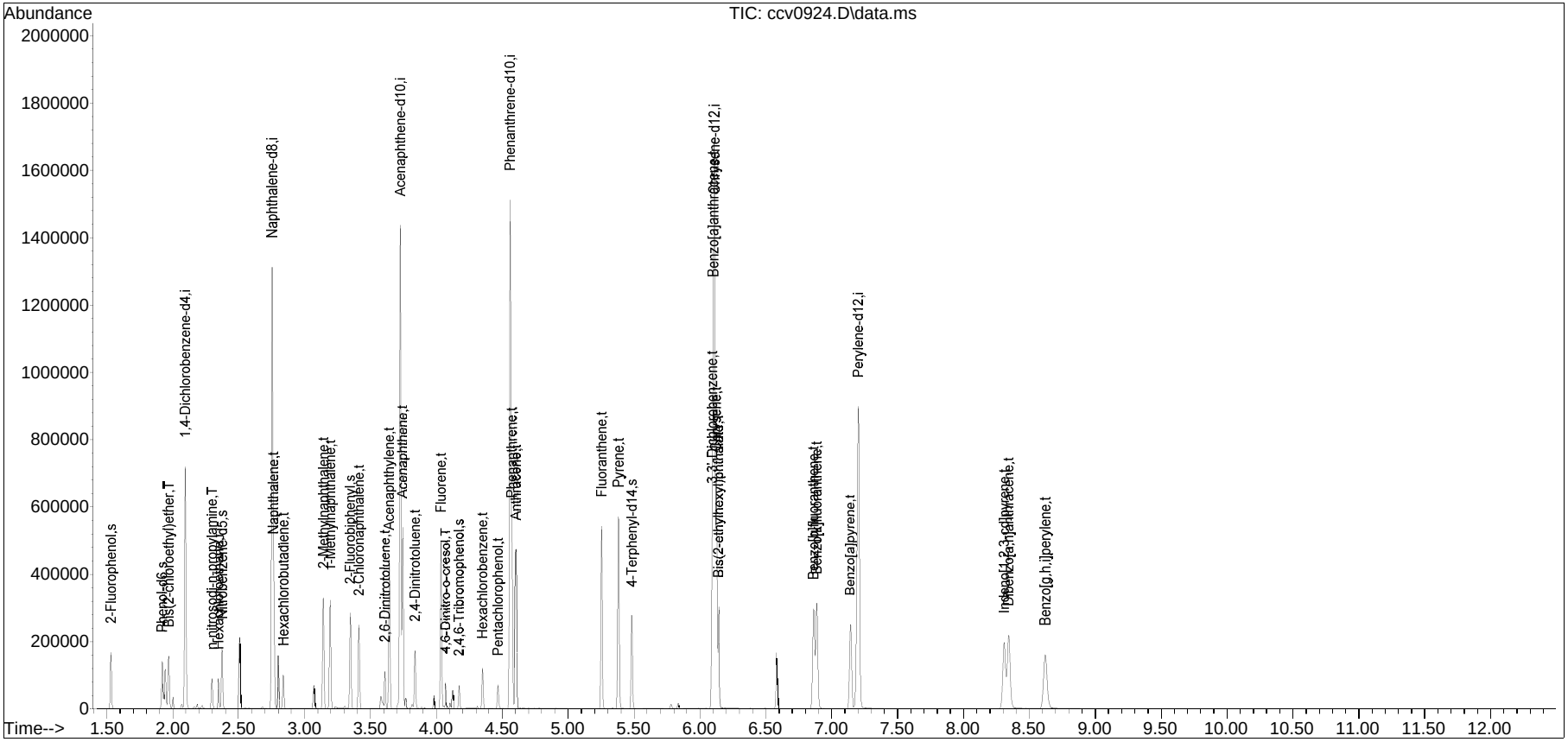
(#) = qualifier out of range (m) = manual integration (+) = signals summed

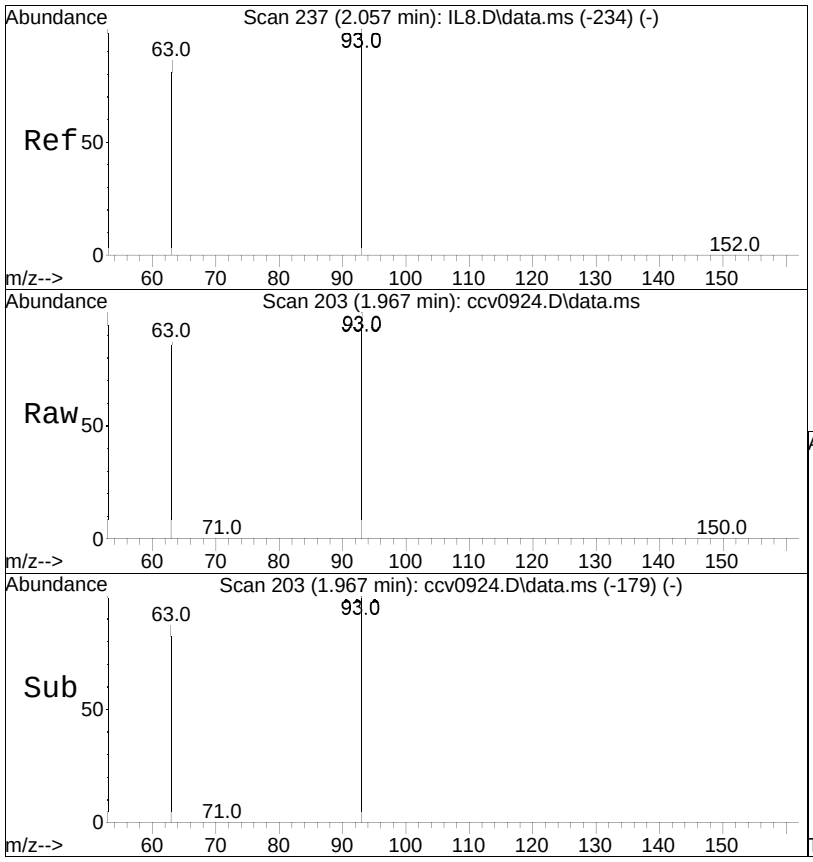
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : ccv0924.D
Acq On : 24 Sep 2024 08:20 am
Operator : SV120:mrg
Sample : WG1975659-3,32,,ICV 10884 (0921)
Misc : WG1975659,,ICAL21368
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 24 08:35:15 2024
Quant Method : I:\8270SIM\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:16 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

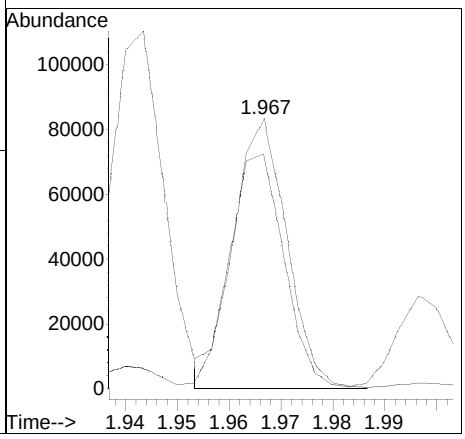


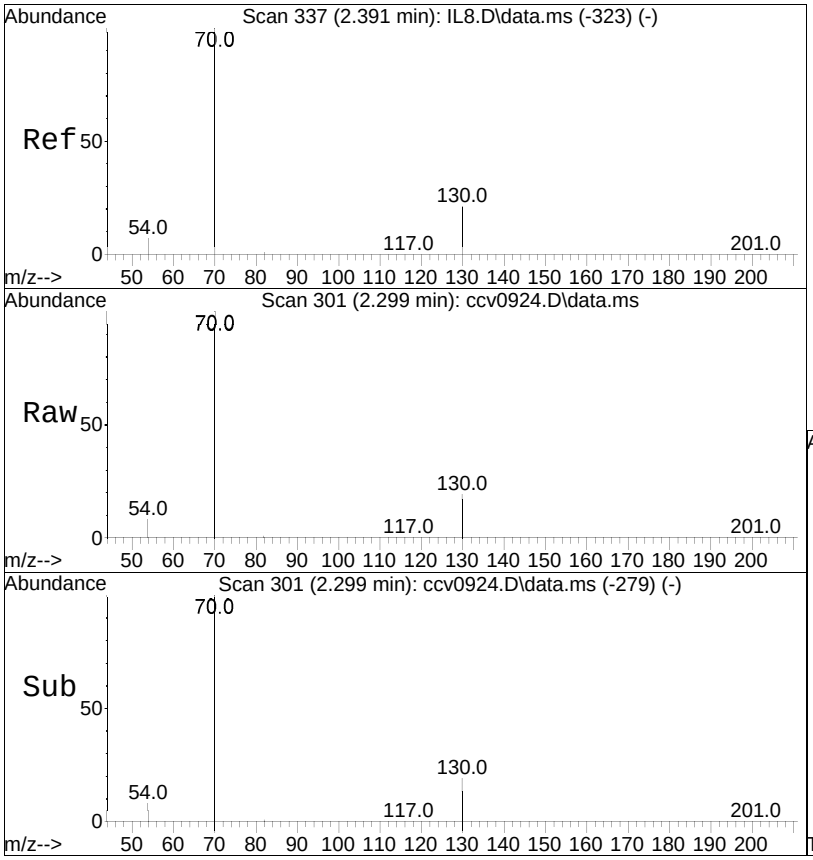


#4
Bis(2-chloroethyl)ether
Concen: 914.99 ng/ml
RT: 1.967 min Scan# 203
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion: 93 Resp: 59561

Ion	Ratio	Lower	Upper
93	100		
63	89.2	61.8	92.6

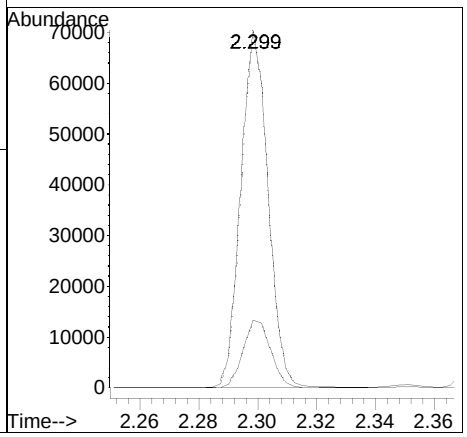


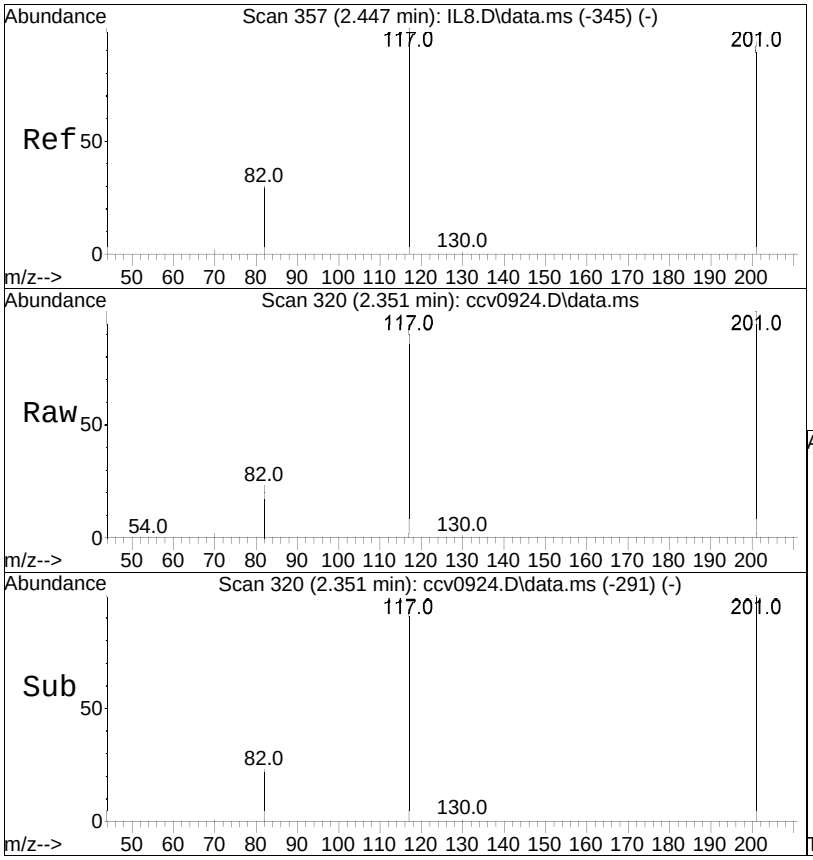


#5
n-nitrosodi-n-propylamine
Concen: 1026.63 ng/ml
RT: 2.299 min Scan# 301
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion: 70 Resp: 44218

Ion	Ratio	Lower	Upper
70	100		
130	19.4	16.4	24.6

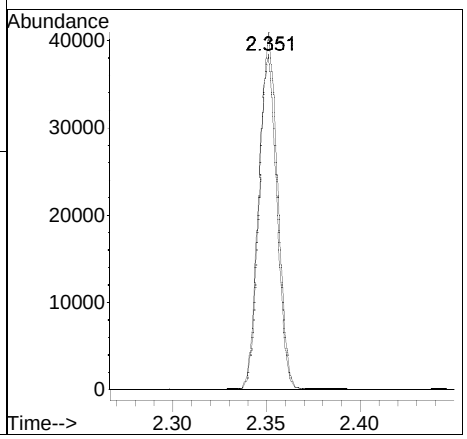


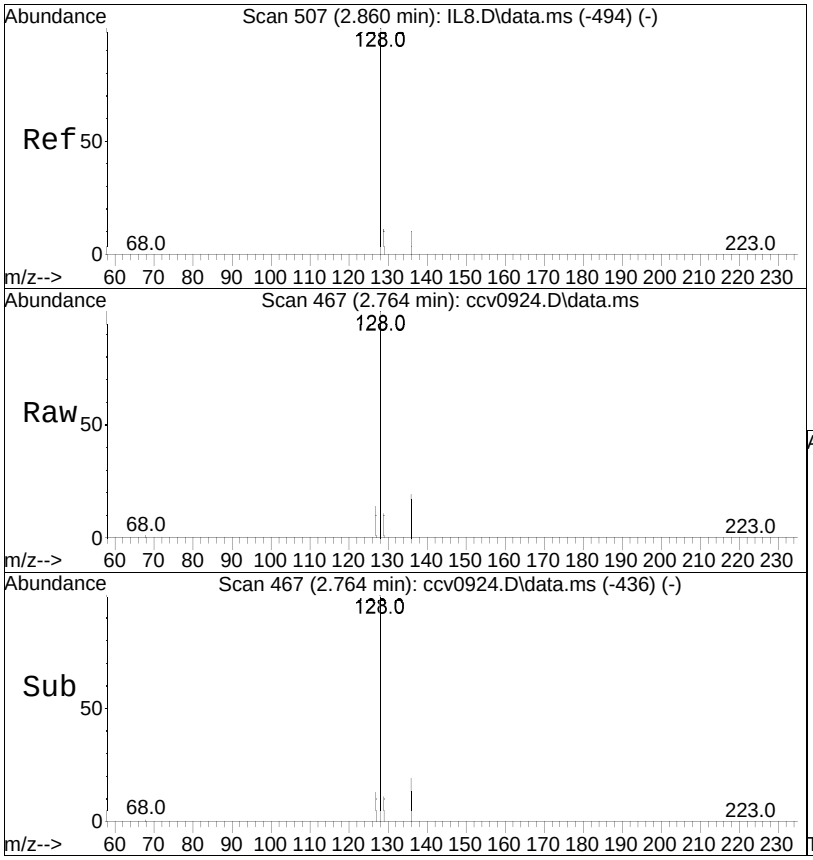


#6
Hexachloroethane
Concen: 914.64 ng/ml
RT: 2.351 min Scan# 320
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:117 Resp: 25405

Ion	Ratio	Lower	Upper
117	100		
201	105.4	76.6	115.0

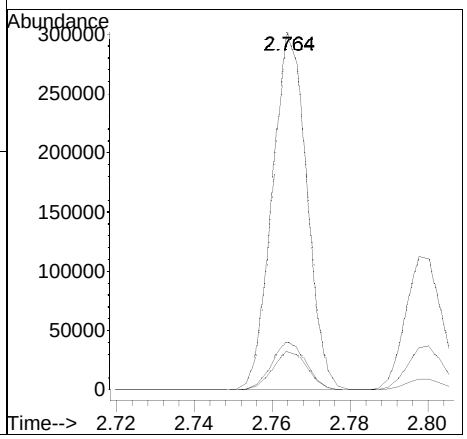


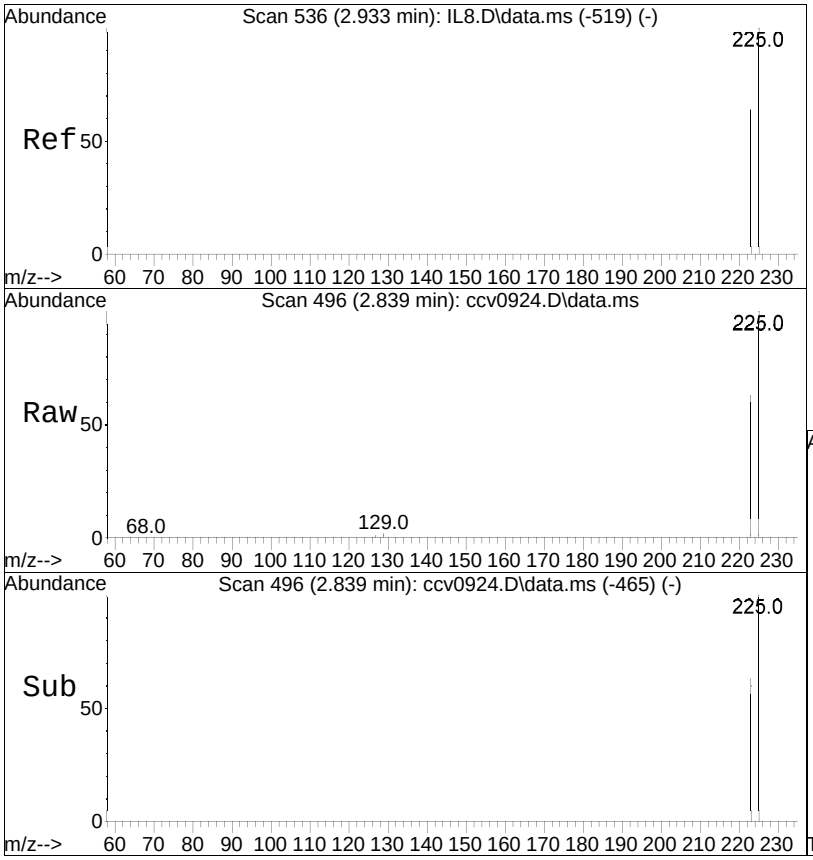


#9
Naphthalene
Concen: 845.19 ng/ml
RT: 2.764 min Scan# 467
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:128 Resp: 185045

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.4	0.0	0.0#

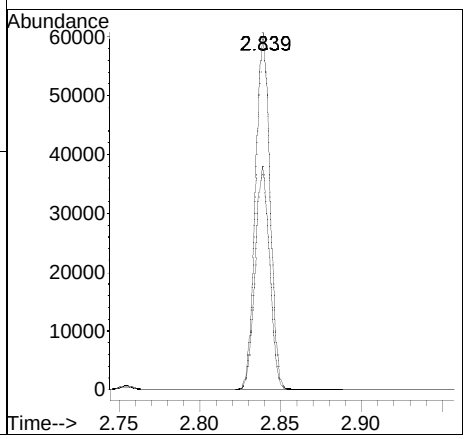


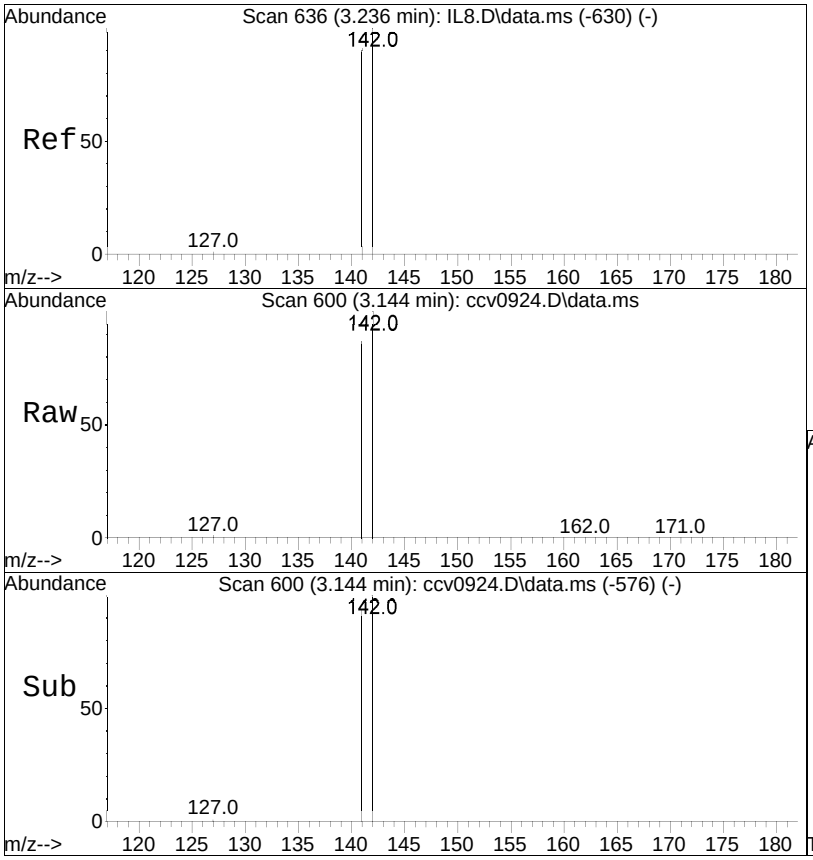


#10
Hexachlorobutadiene
Concen: 980.60 ng/ml
RT: 2.839 min Scan# 496
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:225 Resp: 36878

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6

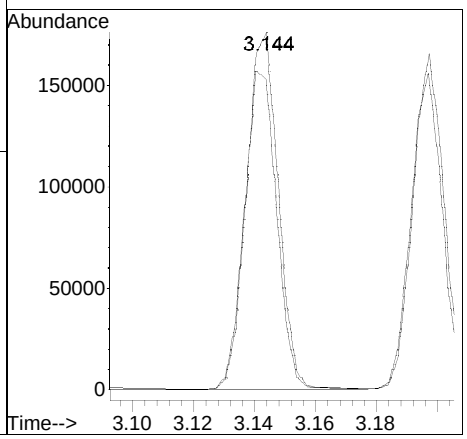


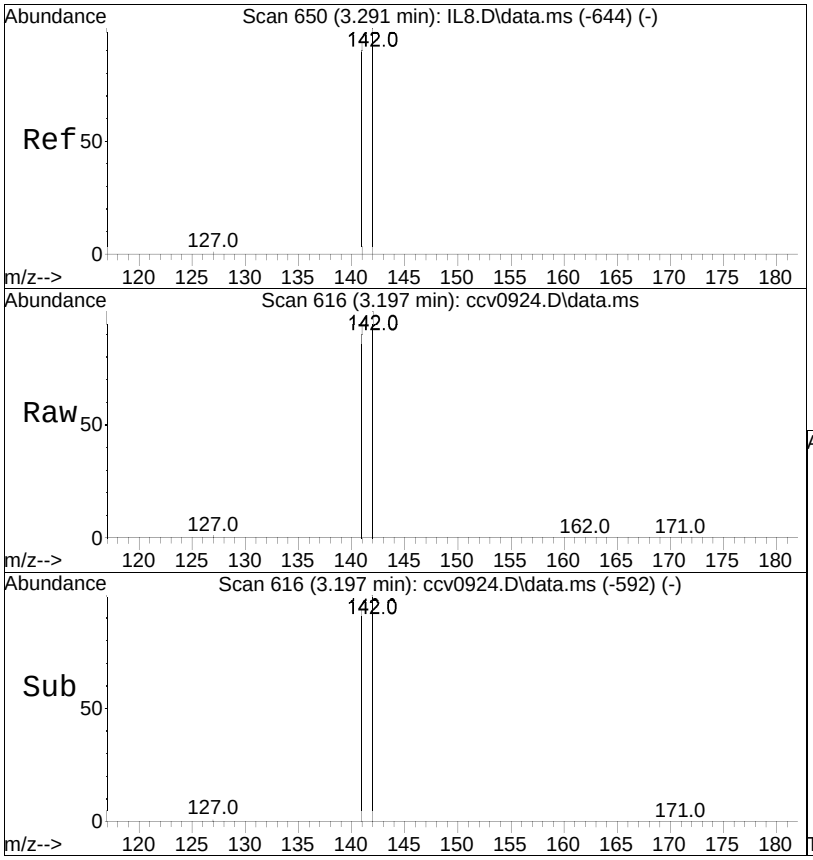


#11
2-Methylnaphthalene
Concen: 914.27 ng/ml
RT: 3.144 min Scan# 600
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:142 Resp: 127055

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.0	109.4

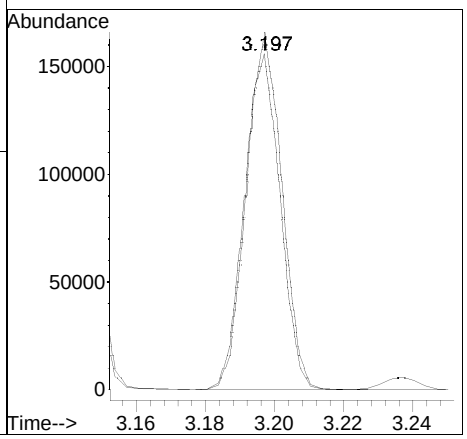


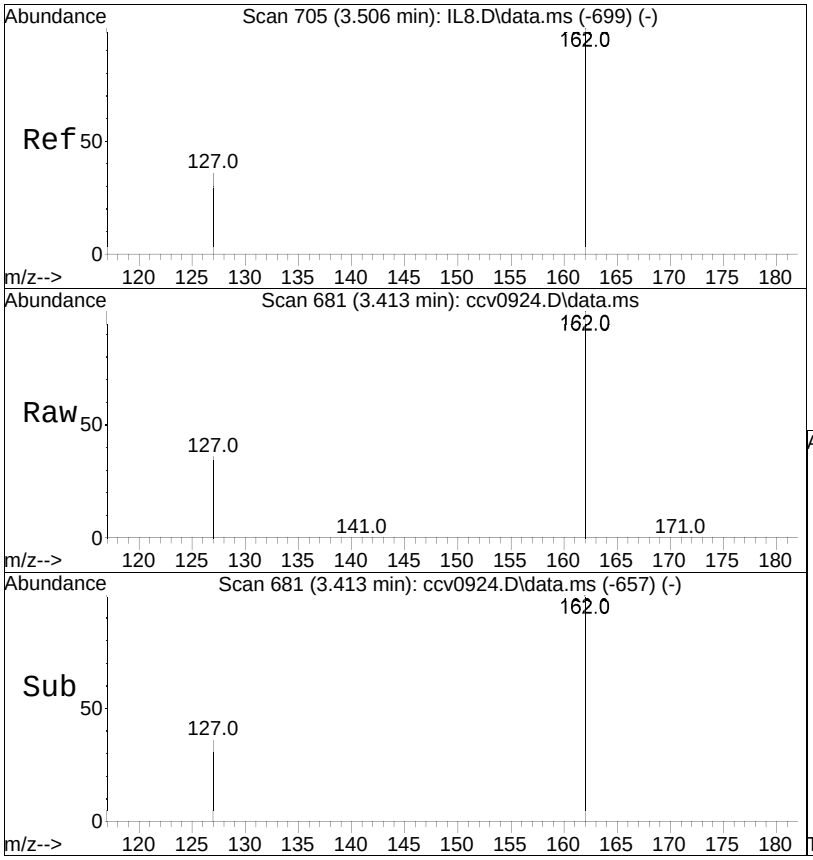


#12
1-Methylnaphthalene
Concen: 898.54 ng/ml
RT: 3.197 min Scan# 616
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:142 Resp: 116529

Ion	Ratio	Lower	Upper
142	100		
141	95.2	75.0	112.6

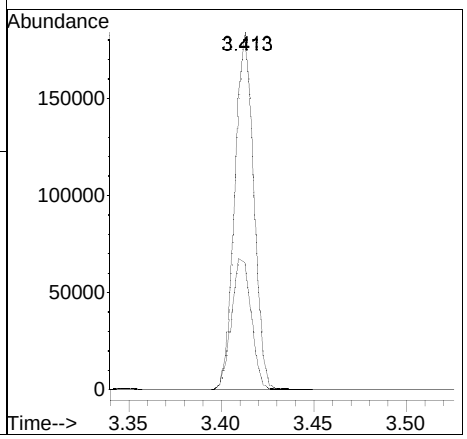


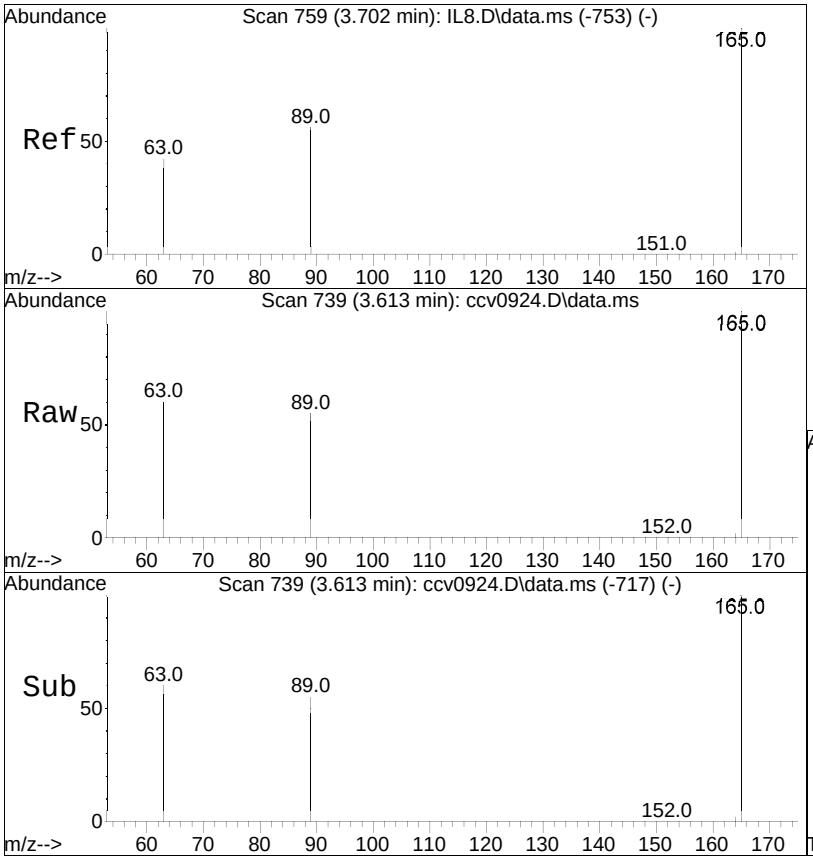


#14
2-Chloronaphthalene
Concen: 910.96 ng/ml
RT: 3.413 min Scan# 681
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:162 Resp: 128627

Ion	Ratio	Lower	Upper
162	100		
127	38.5	30.9	46.3

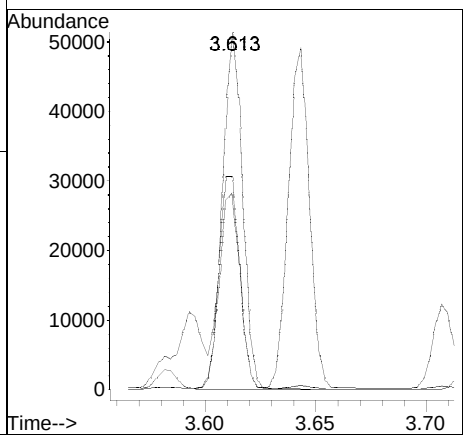


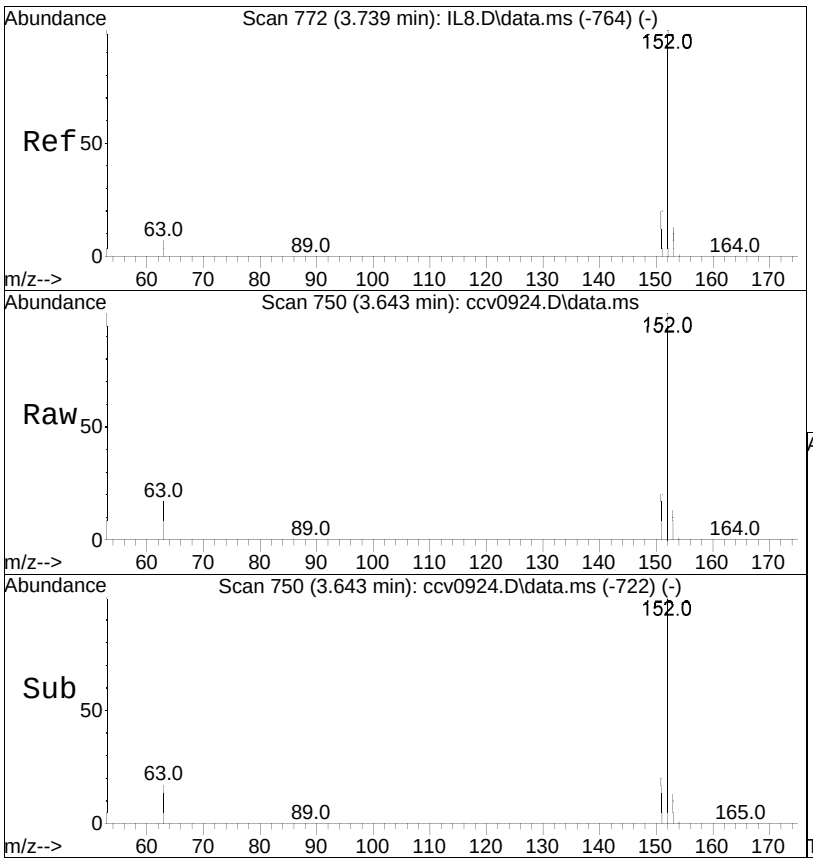


#15
2,6-Dinitrotoluene
Concen: 1044.05 ng/ml
RT: 3.613 min Scan# 739
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:165 Resp: 32544

Ion	Ratio	Lower	Upper
165	100		
89	57.0	49.9	74.9
63	62.0	48.5	72.7

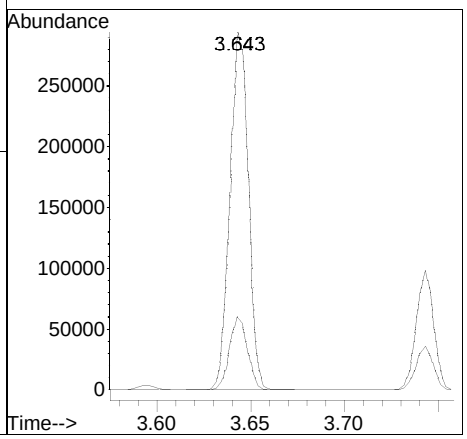


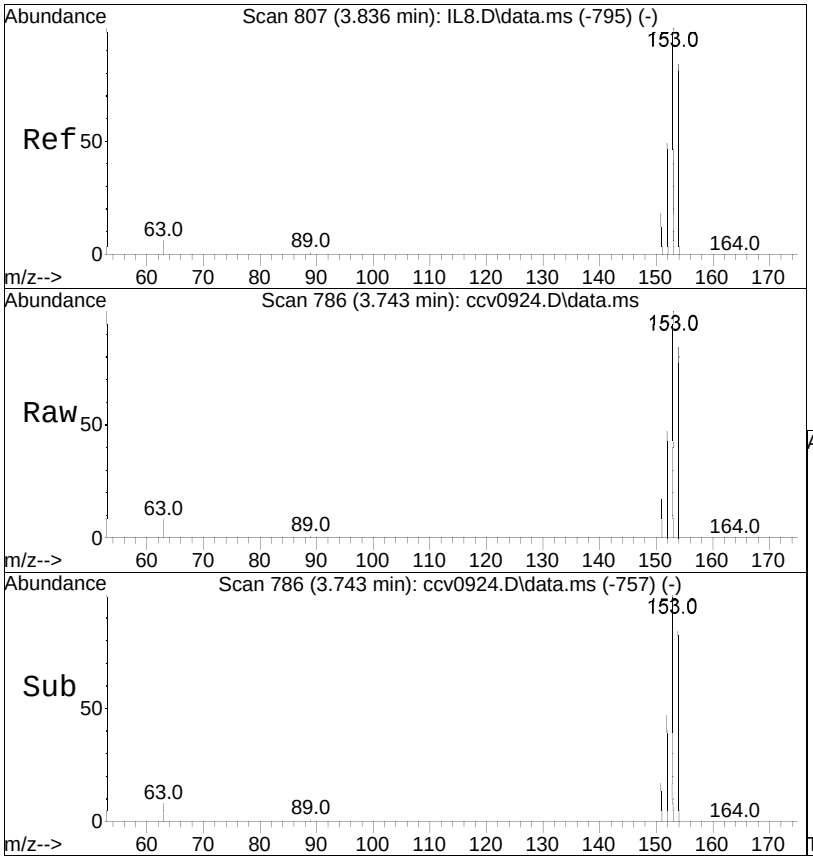


#16
Acenaphthylene
Concen: 980.88 ng/ml
RT: 3.643 min Scan# 750
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:152 Resp: 198828

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.3	24.5

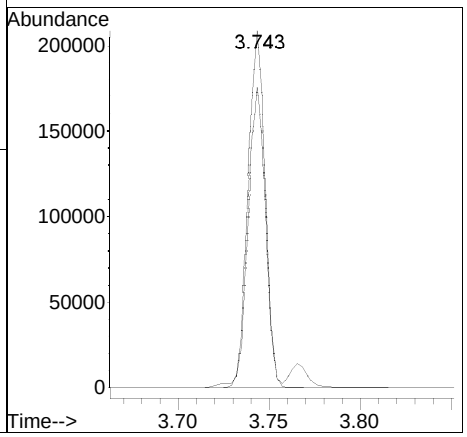


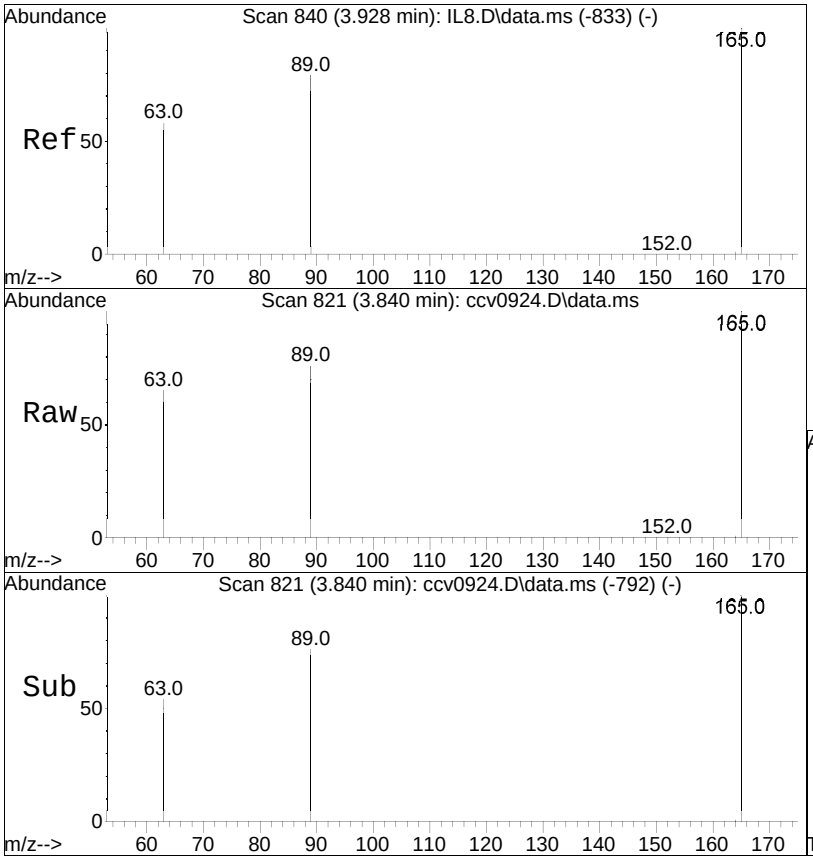


#18
Acenaphthene
Concen: 837.22 ng/ml
RT: 3.743 min Scan# 786
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:153 Resp: 134611

Ion	Ratio	Lower	Upper
153	100		
154	85.7	72.3	108.5

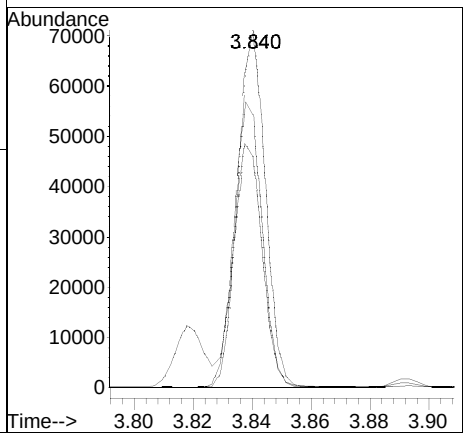


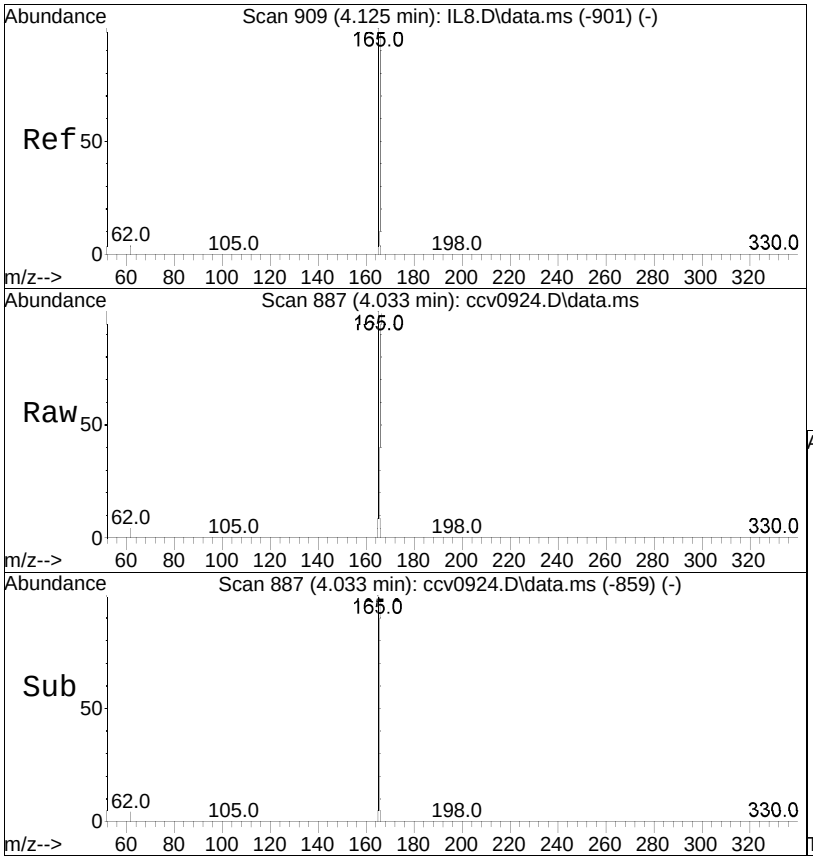


#19
2,4-Dinitrotoluene
Concen: 1049.20 ng/ml
RT: 3.840 min Scan# 821
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:165 Resp: 45942

Ion	Ratio	Lower	Upper
165	100		
89	82.3	72.9	109.3
63	71.0	59.0	88.4

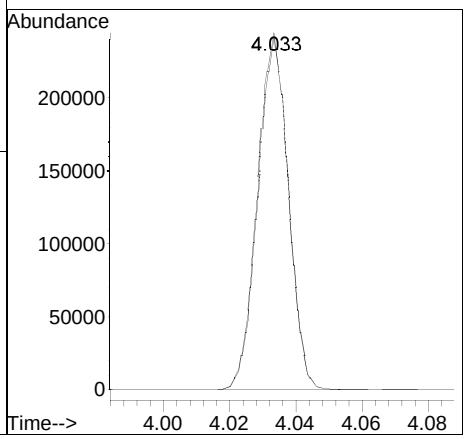


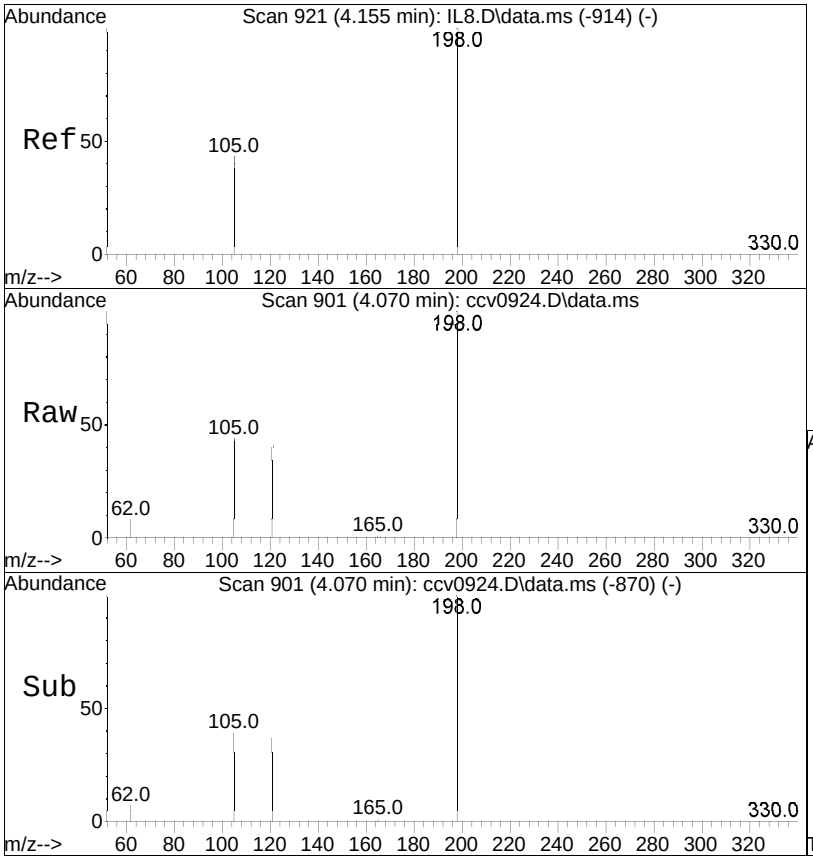


#20
Fluorene
Concen: 869.05 ng/ml
RT: 4.033 min Scan# 887
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:166 Resp: 154837

Ion	Ratio	Lower	Upper
166	100		
165	101.7	81.5	122.3

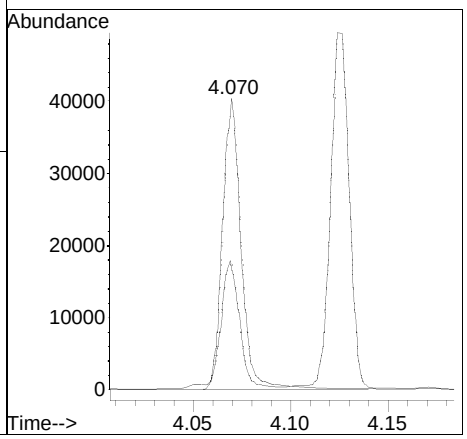


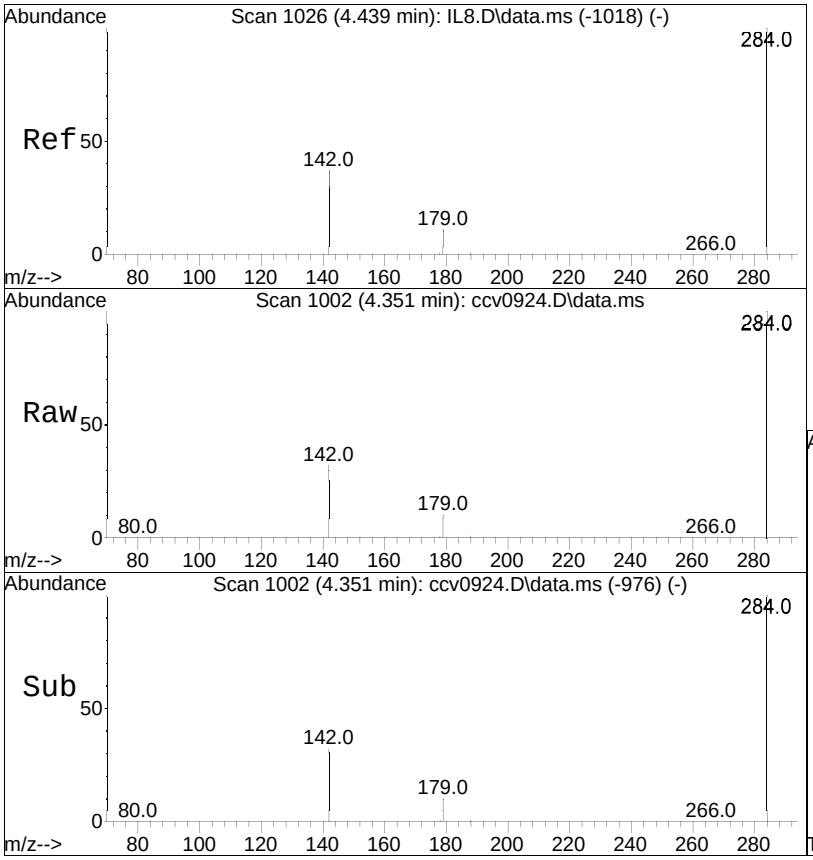


#23
4,6-Dinitro-o-cresol
Concen: 1221.14 ng/ml
RT: 4.070 min Scan# 901
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:198 Resp: 26770

Ion	Ratio	Lower	Upper
198	100		
105	44.7	36.2	54.2

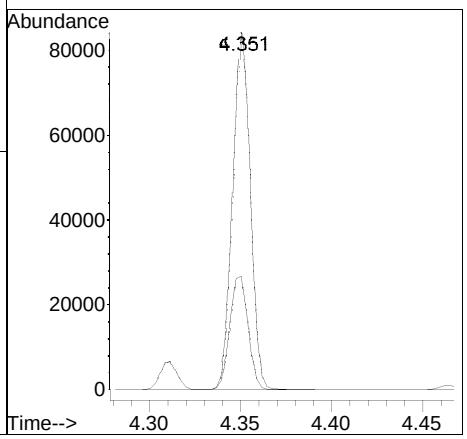


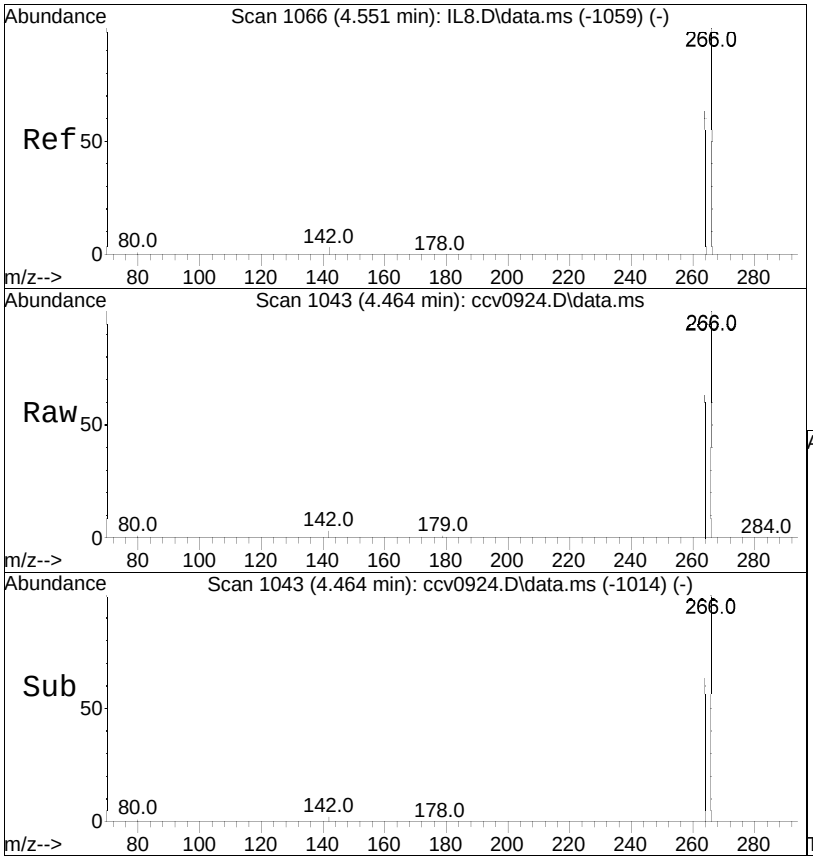


#24
Hexachlorobenzene
Concen: 861.59 ng/ml
RT: 4.351 min Scan# 1002
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:284 Resp: 55843

Ion	Ratio	Lower	Upper
284	100		
142	32.9	29.4	44.2

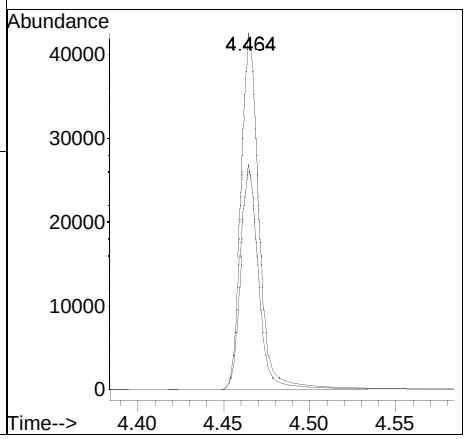


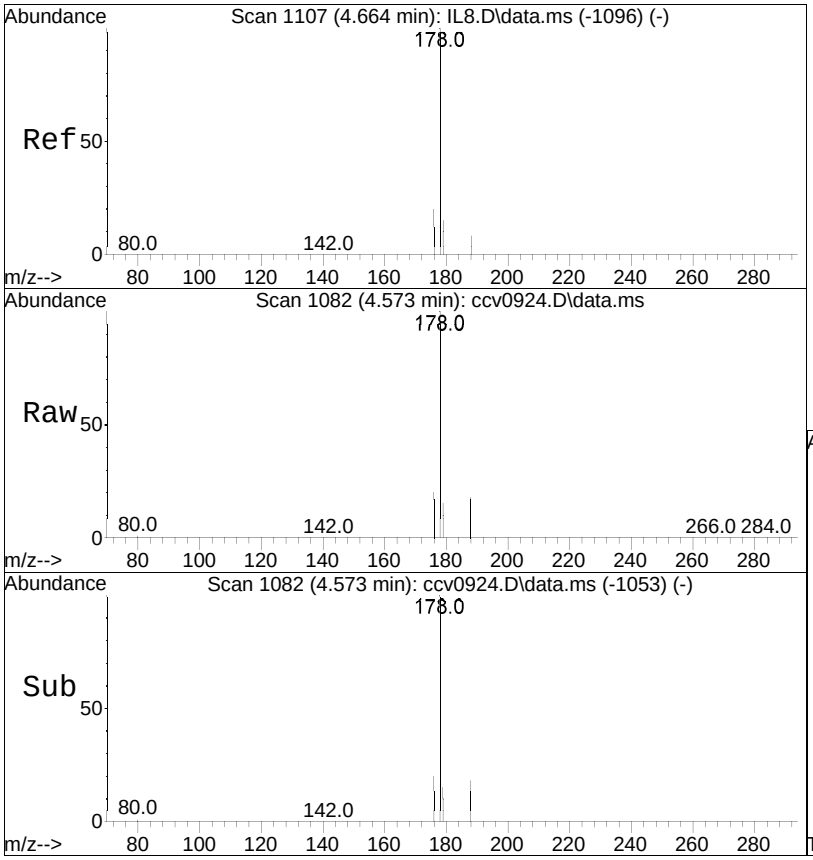


#25
Pentachlorophenol
Concen: 1023.03 ng/ml
RT: 4.464 min Scan# 1043
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:266 Resp: 30682

Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.2	75.4

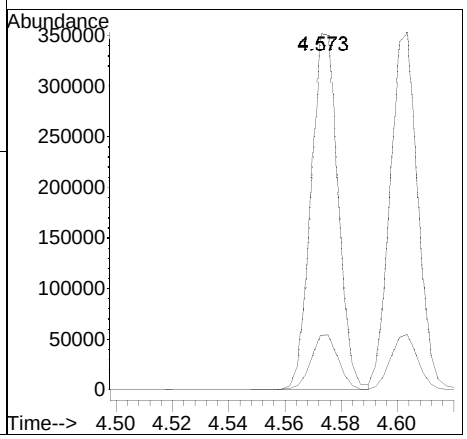


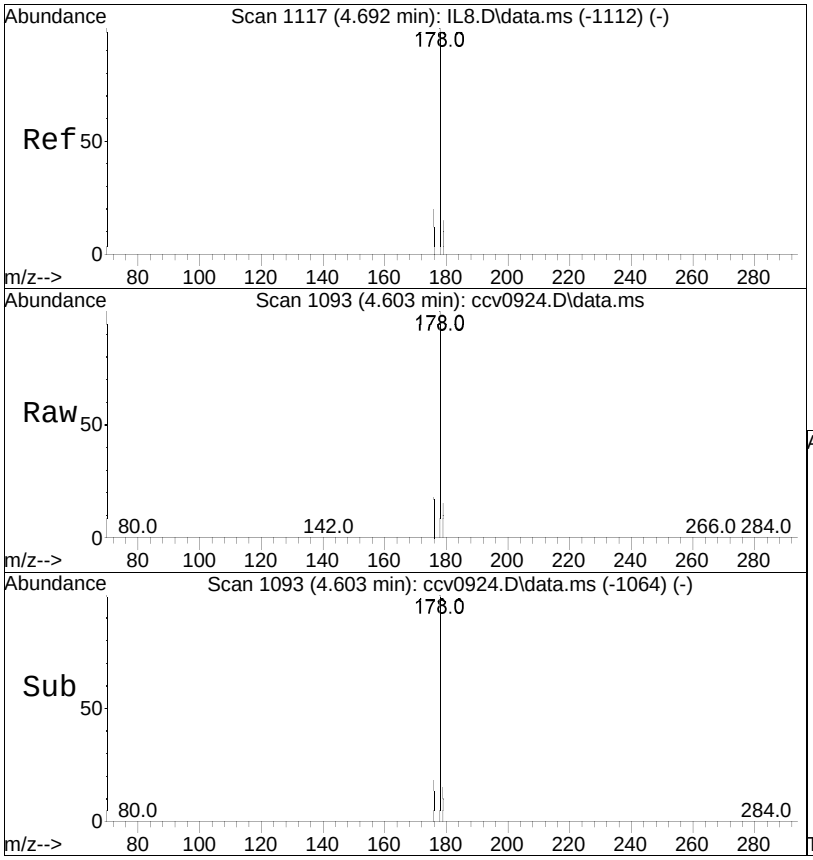


#26
Phenanthrene
Concen: 857.09 ng/ml
RT: 4.573 min Scan# 1082
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:178 Resp: 235257

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.4	18.6

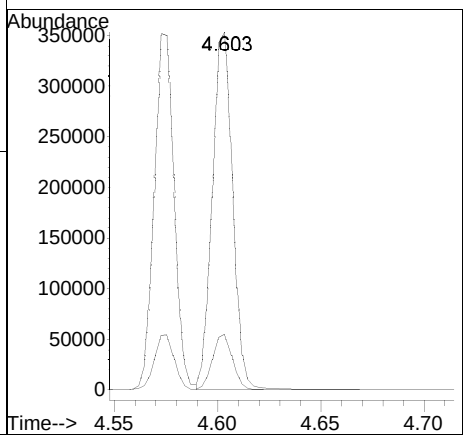


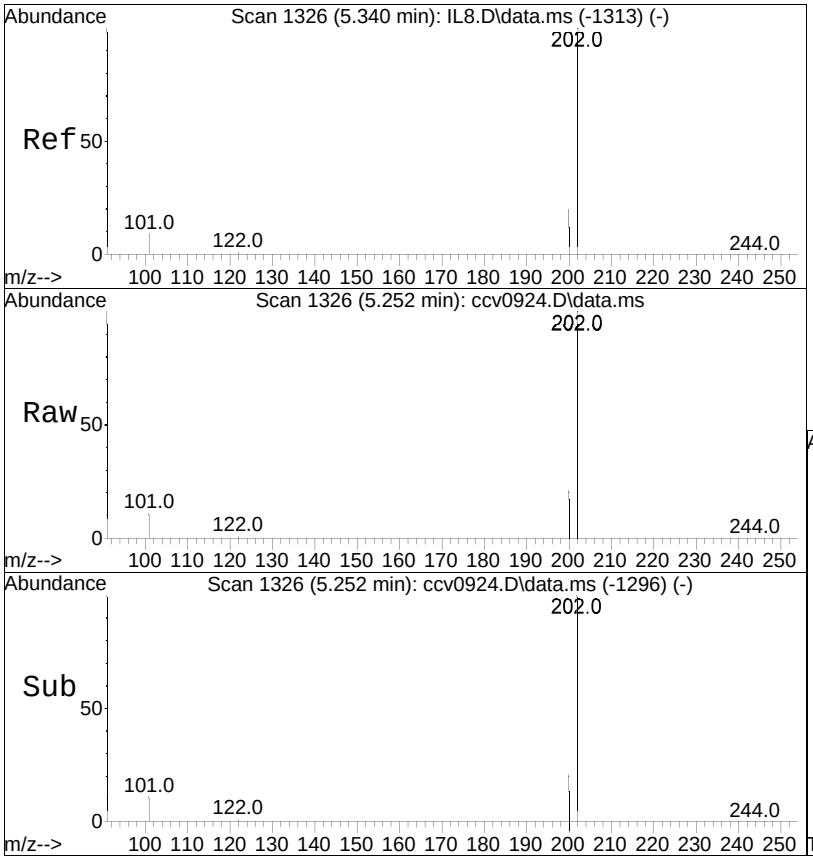


#27
Anthracene
Concen: 911.68 ng/ml
RT: 4.603 min Scan# 1093
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:178 Resp: 241429

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.3	18.5

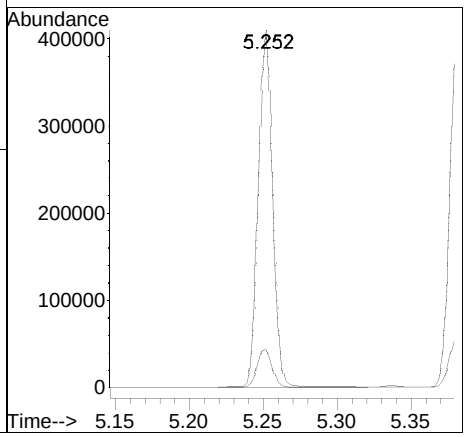


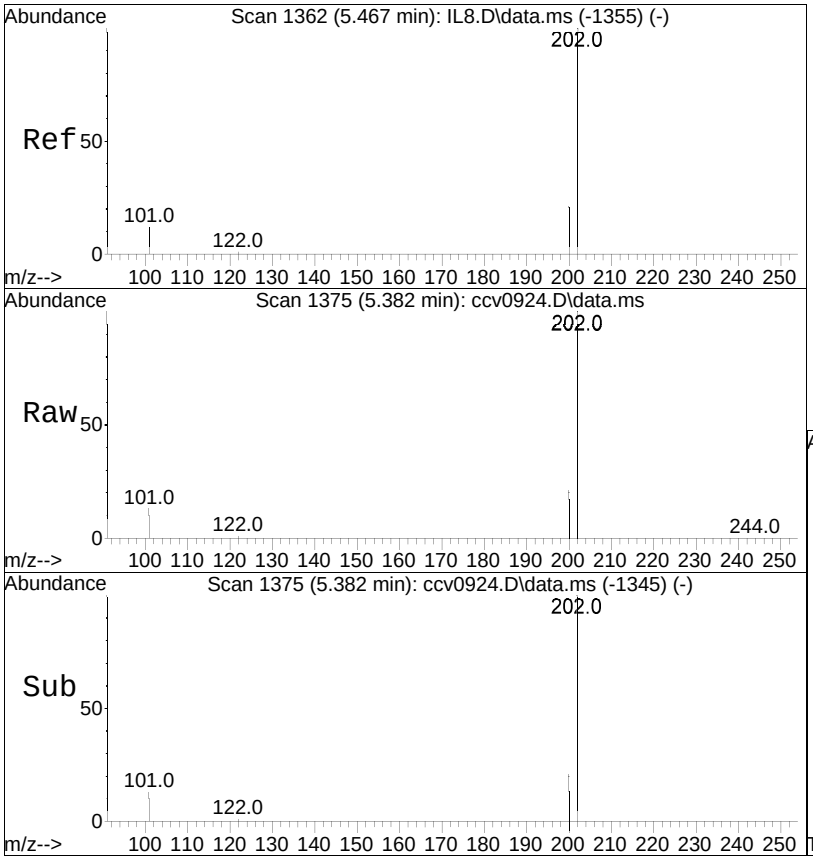


#28
Fluoranthene
Concen: 937.44 ng/ml
RT: 5.252 min Scan# 1326
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:202 Resp: 278026

Ion	Ratio	Lower	Upper
202	100		
101	11.3	8.7	13.1

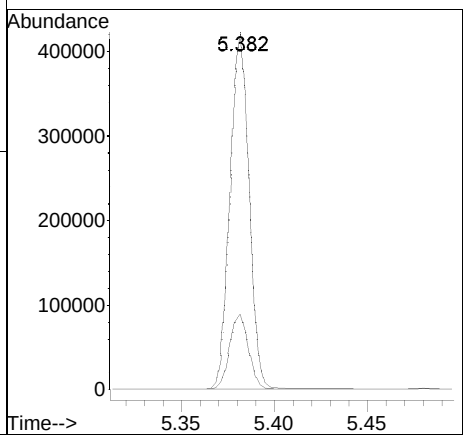


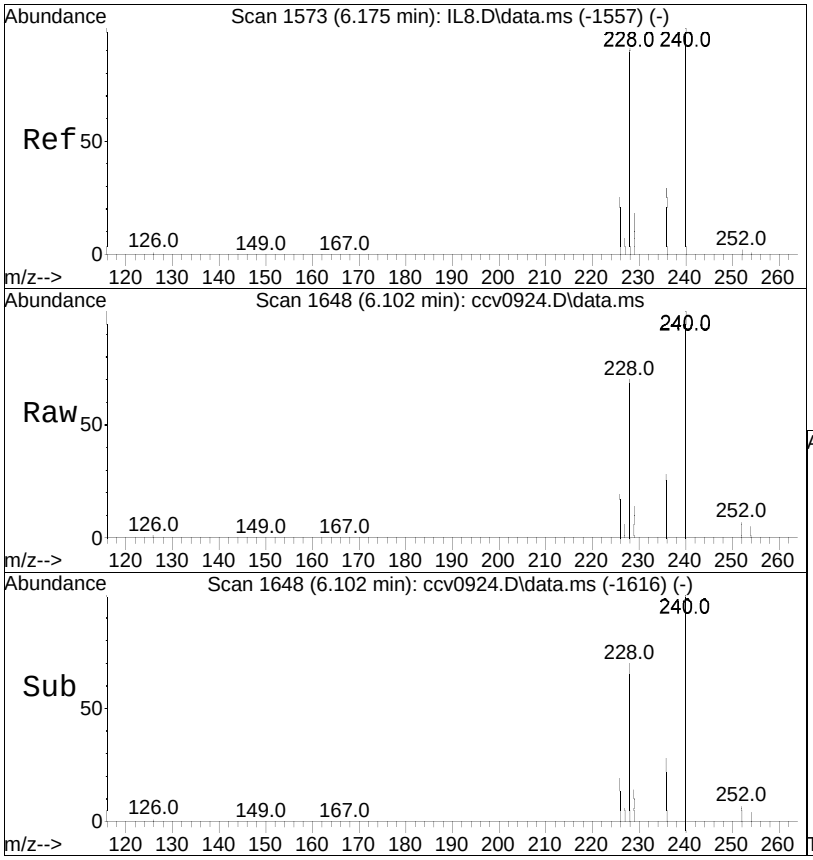


#29
Pyrene
Concen: 957.03 ng/ml
RT: 5.382 min Scan# 1375
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:202 Resp: 295713

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.2

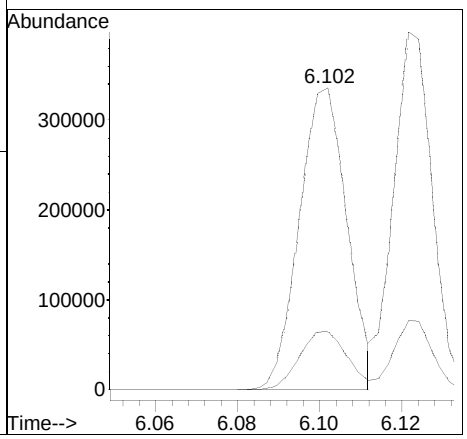


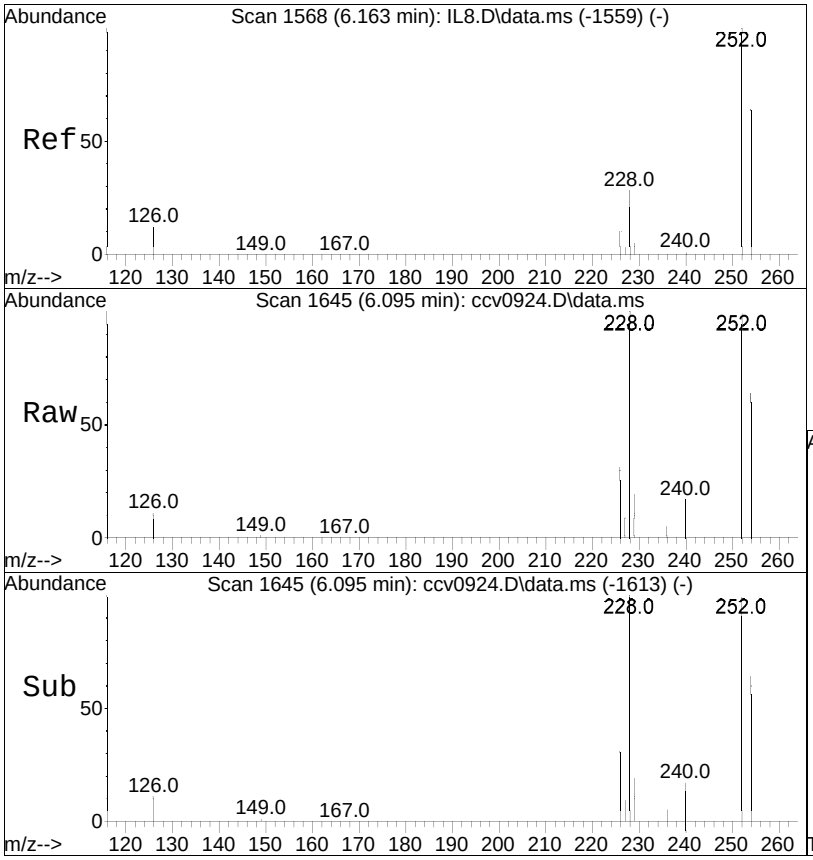


#32
Benzo[a]anthracene
Concen: 837.70 ng/ml
RT: 6.102 min Scan# 1648
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:228 Resp: 270095

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.8	23.6

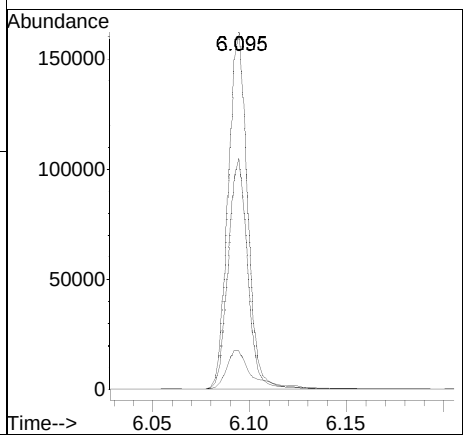


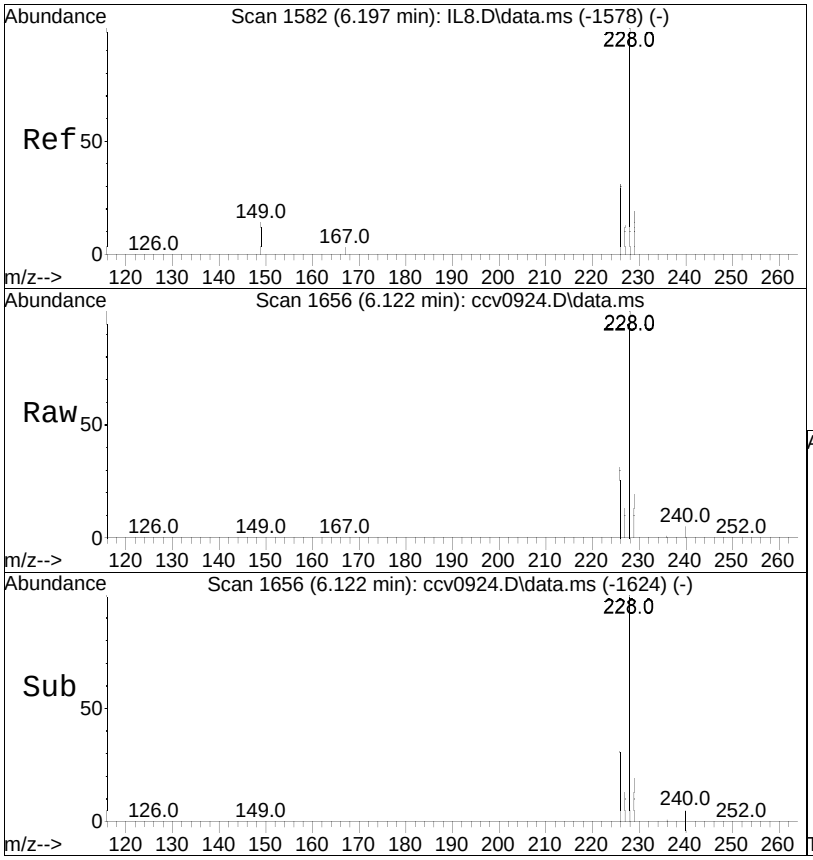


#33
3,3'-Dichlorobenzene
Concen: 940.51 ng/ml
RT: 6.095 min Scan# 1645
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:252 Resp: 111645

Ion	Ratio	Lower	Upper
252	100		
126	13.7	11.7	17.5
254	64.7	51.4	77.2

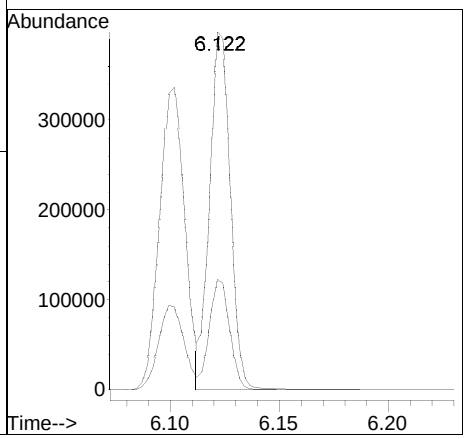


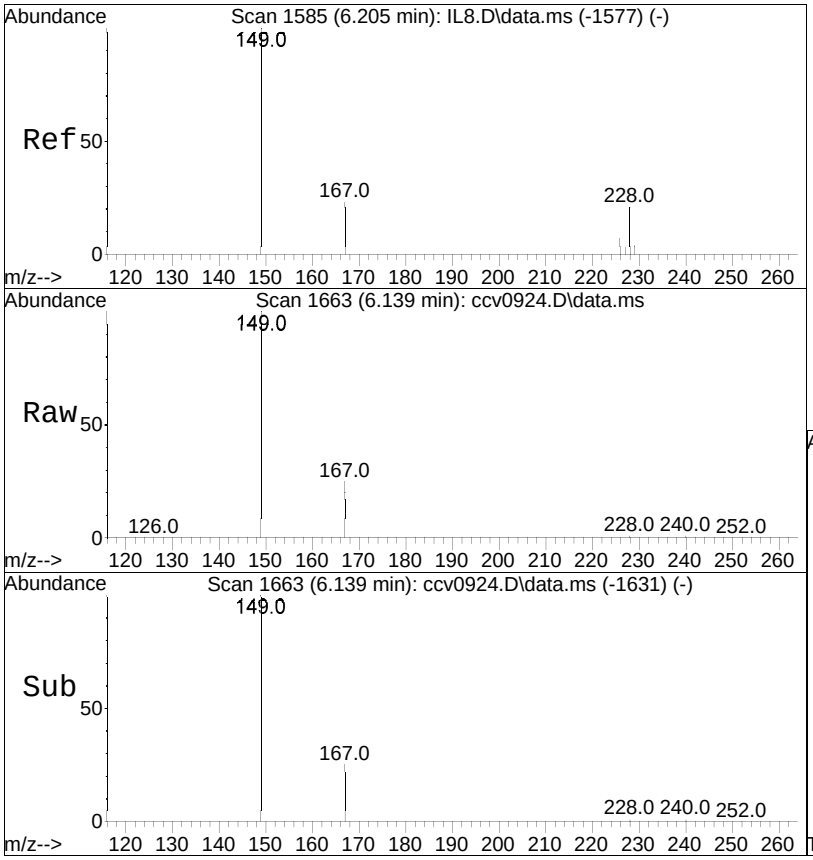


#34
Chrysene
Concen: 845.26 ng/ml
RT: 6.122 min Scan# 1656
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:228 Resp: 261328

Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.7	38.5

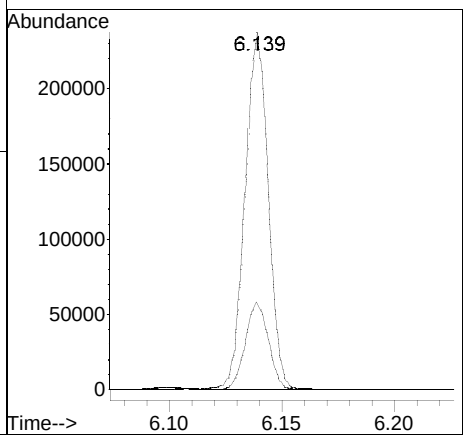


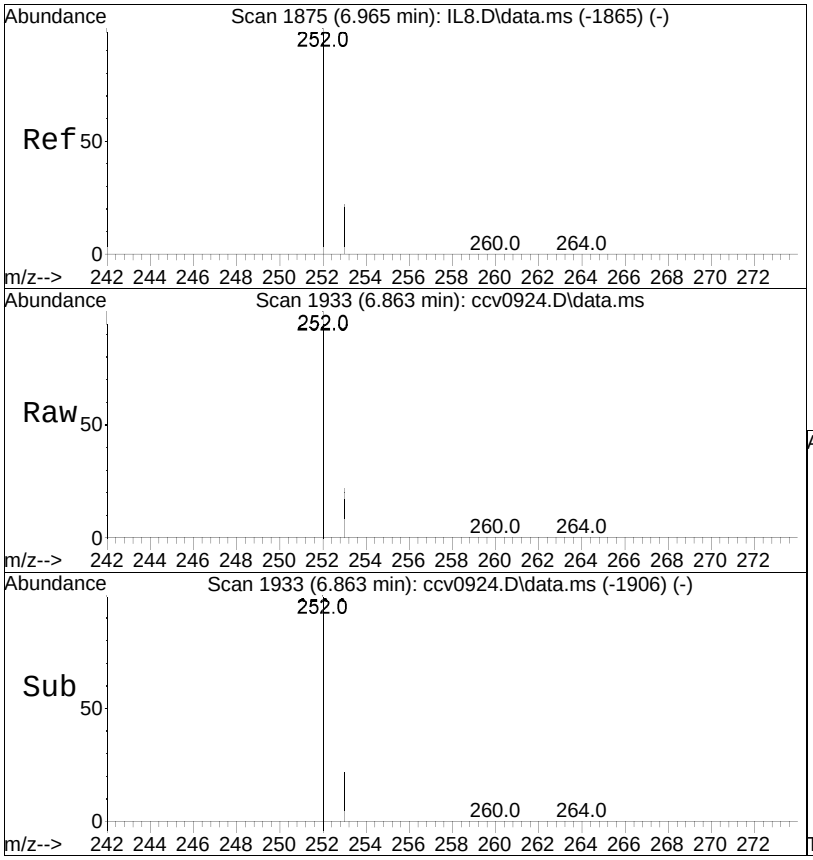


#35
Bis(2-ethylhexyl)phthalate
Concen: 871.59 ng/ml
RT: 6.139 min Scan# 1663
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:149 Resp: 167071

Ion	Ratio	Lower	Upper
149	100		
167	24.4	18.5	27.7

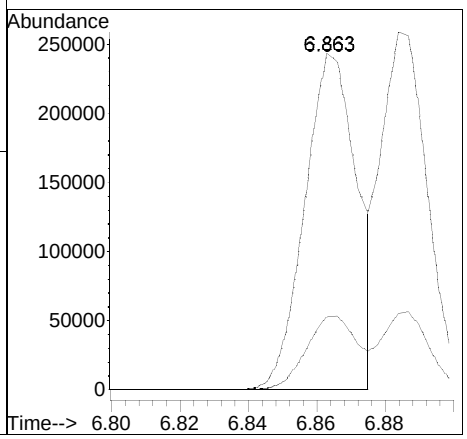


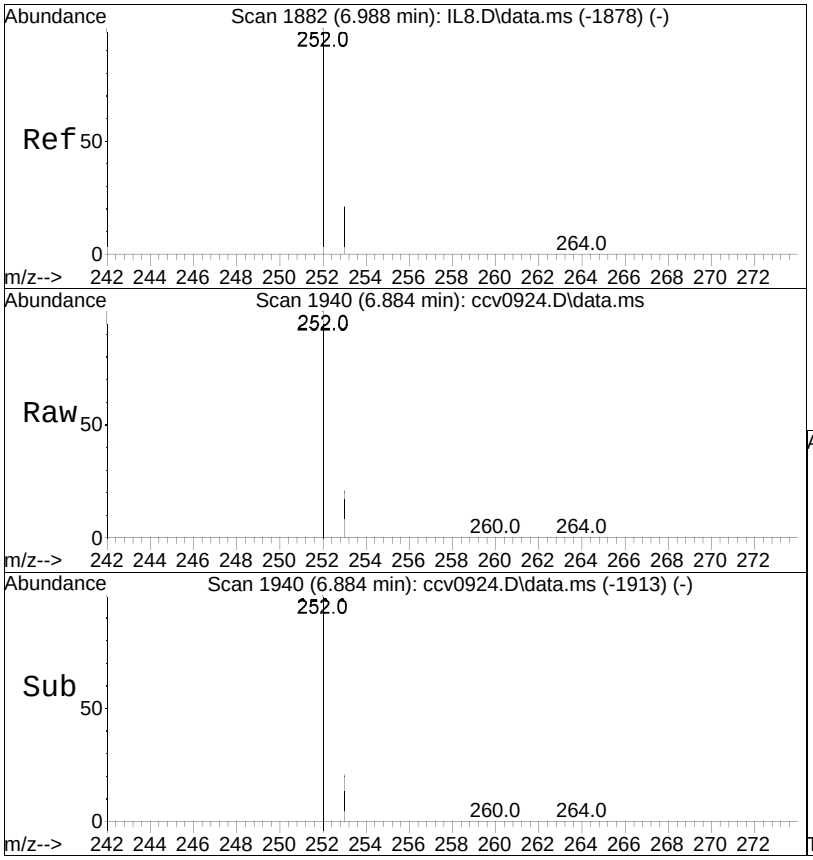


#37
Benzo[b]fluoranthene
Concen: 919.82 ng/ml
RT: 6.863 min Scan# 1933
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:252 Resp: 258872

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

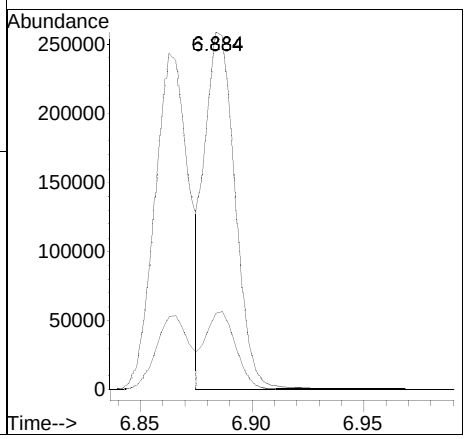


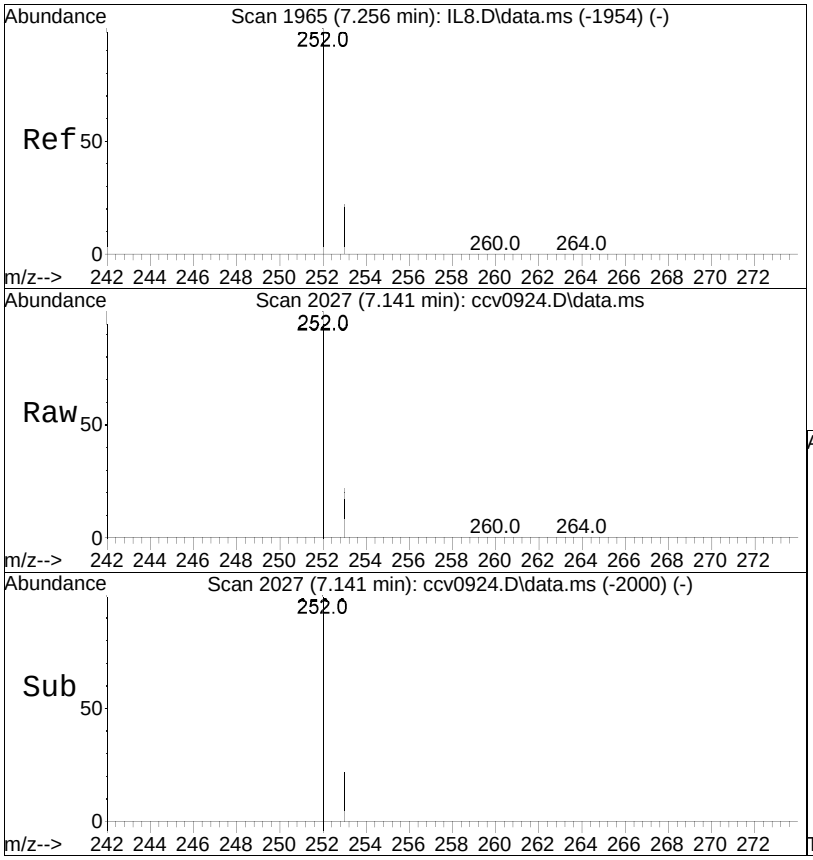


#38
Benzo[k]fluoranthene
Concen: 914.93 ng/ml
RT: 6.884 min Scan# 1940
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:252 Resp: 242600

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4

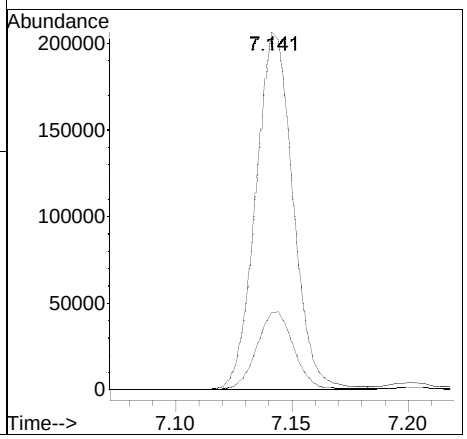


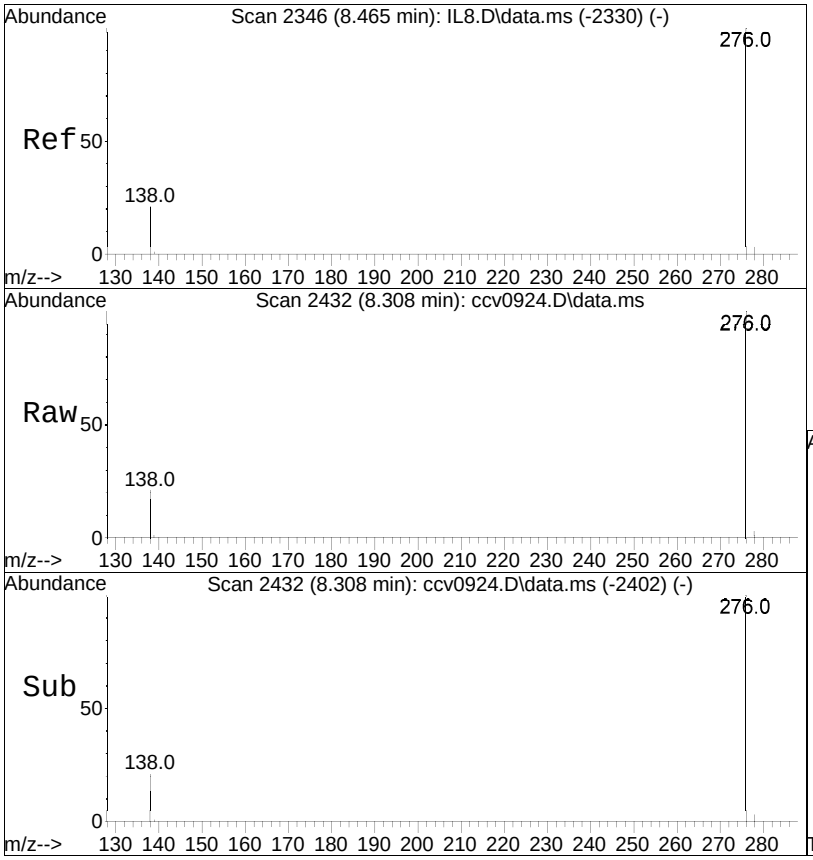


#39
Benzo[a]pyrene
Concen: 1008.45 ng/ml
RT: 7.141 min Scan# 2027
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:252 Resp: 226979

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

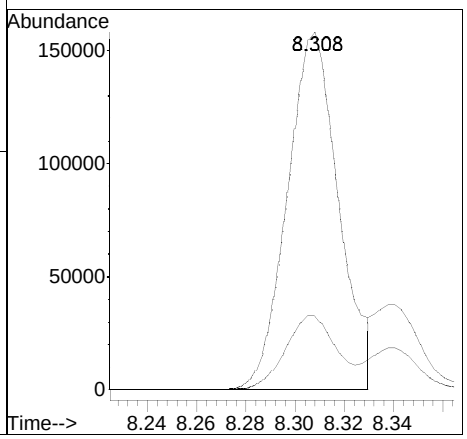


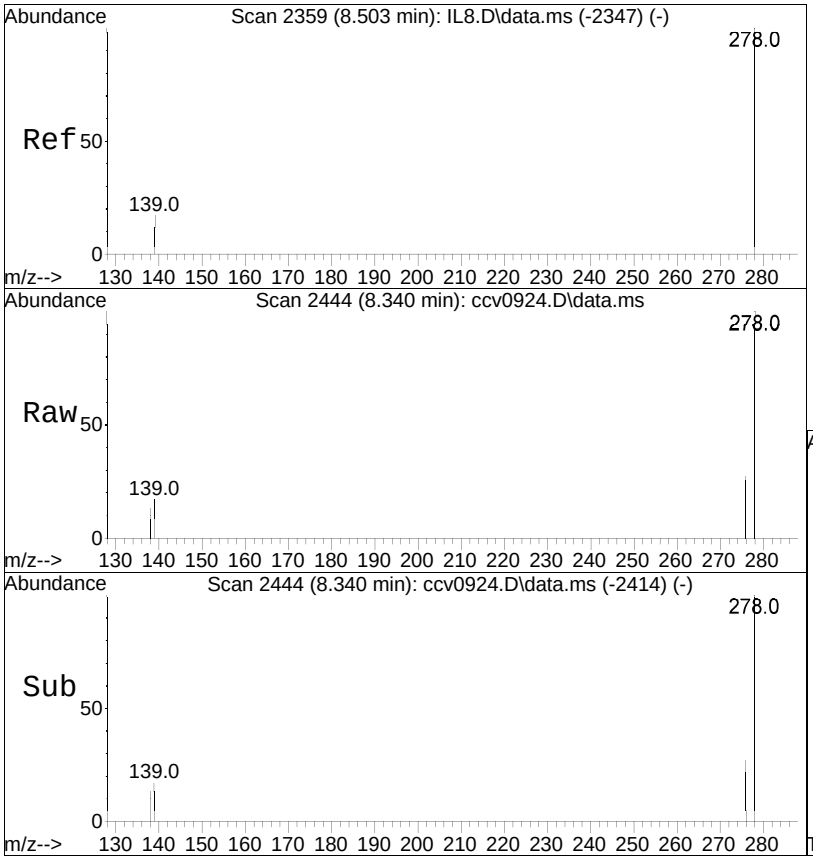


#40
Indeno[1,2,3-cd]pyrene
Concen: 1080.47 ng/ml
RT: 8.308 min Scan# 2432
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:276 Resp: 227880

Ion	Ratio	Lower	Upper
276	100		
138	20.7	17.2	25.8

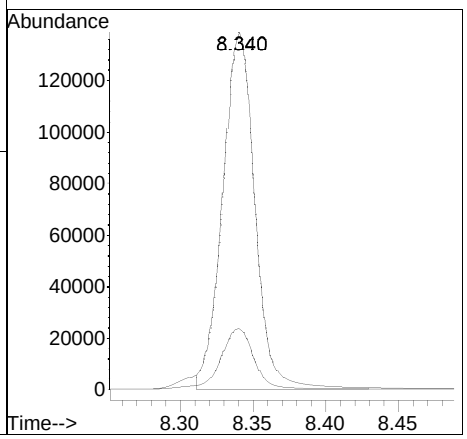


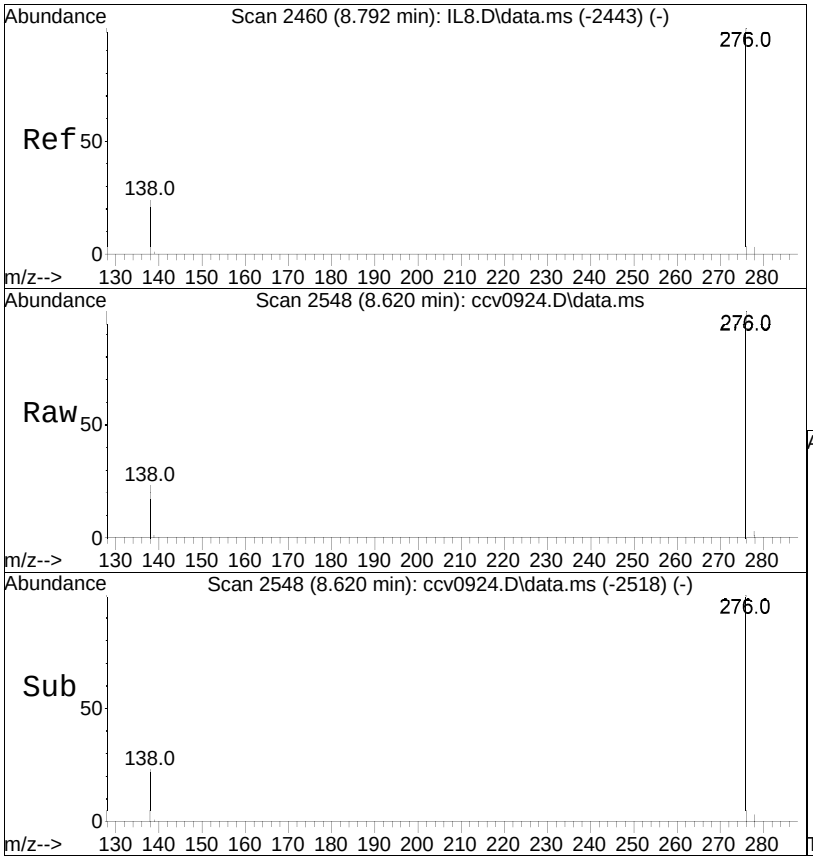


#41
Dibenzo[a,h]anthracene
Concen: 1074.61 ng/ml M6
RT: 8.340 min Scan# 2444
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:278 Resp: 212701

Ion	Ratio	Lower	Upper
278	100		
139	17.7	14.7	22.1

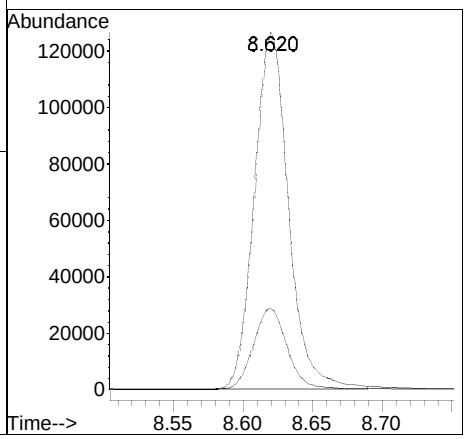




#42
Benzo[g,h,i]perylene
Concen: 989.09 ng/ml
RT: 8.620 min Scan# 2548
Delta R.T. 0.000 min
Lab File: ccv0924.D
Acq: 24 Sep 2024 08:20 am

Tgt Ion:276 Resp: 213233

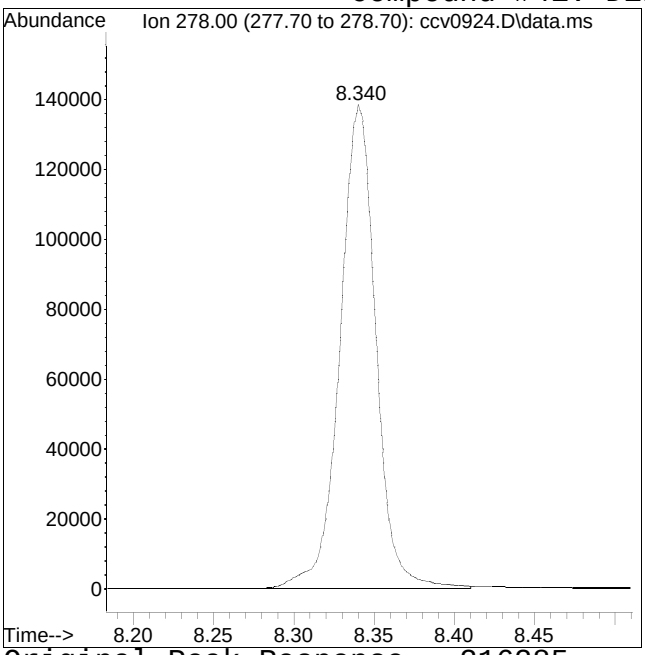
Ion	Ratio	Lower	Upper
276	100		
138	23.0	19.0	28.4



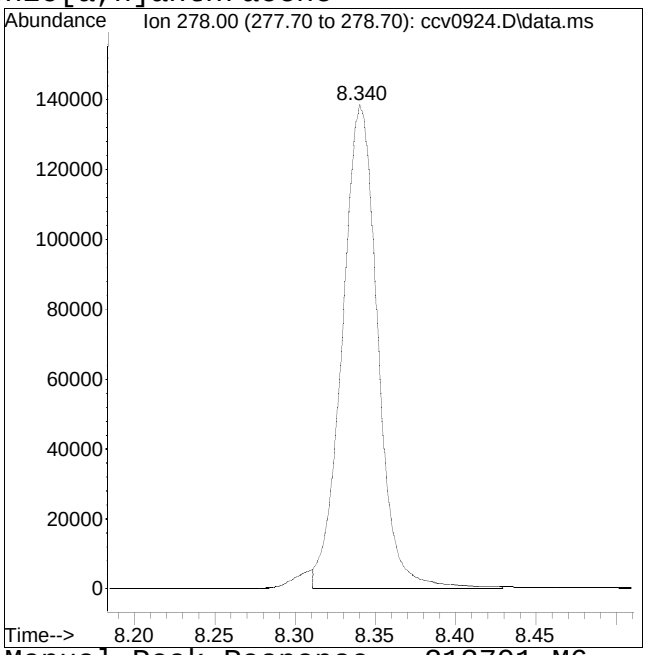
Manual Integration Report

Data Path : I:\8270SIM\sv120\240924RVTQMethod : SIM-RVT_240728_sv120.M
Data File : ccv0924.D Operator : SV120:mrg
Date Inj'd : 9/24/2024 8:20 am Instrument : SV120
Sample : WG1975659-3,32,,ICV 10884 Quant Date : 9/24/2024 8:36 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 216285



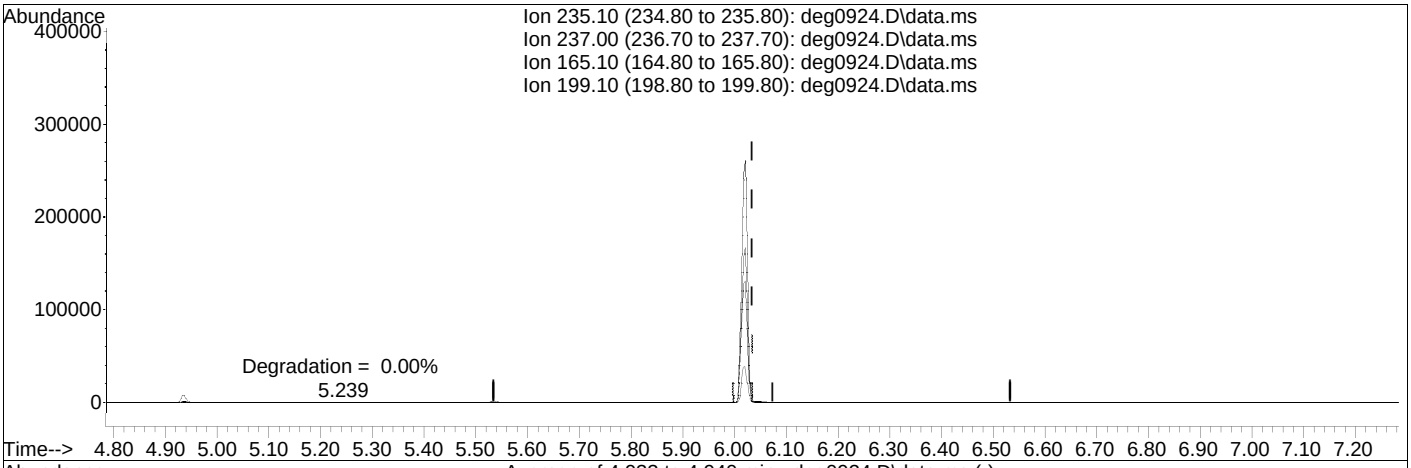
Manual Peak Response = 212701 M6

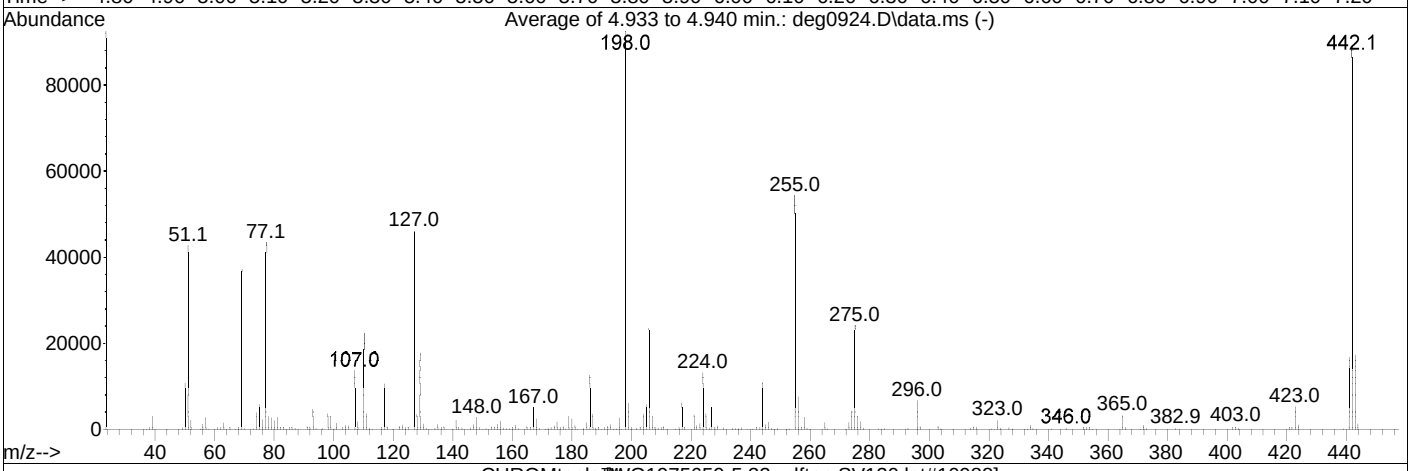
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : deg0924.D
Acq On : 24 Sep 2024 08:01 am
Operator : SV120:mrg
Sample : WG1975659-2,32,, dftpp SV120 lot#10988
Misc : WG1975659,,ical21368
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 24 08:16:54 2024
Quant Method : I:\8270SIM\sv120\240924RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1975659-5,32,, dftpp SV120 lot#10988]

(6) ddt (T)

6.021min (-0.013) 31.30

response 190811

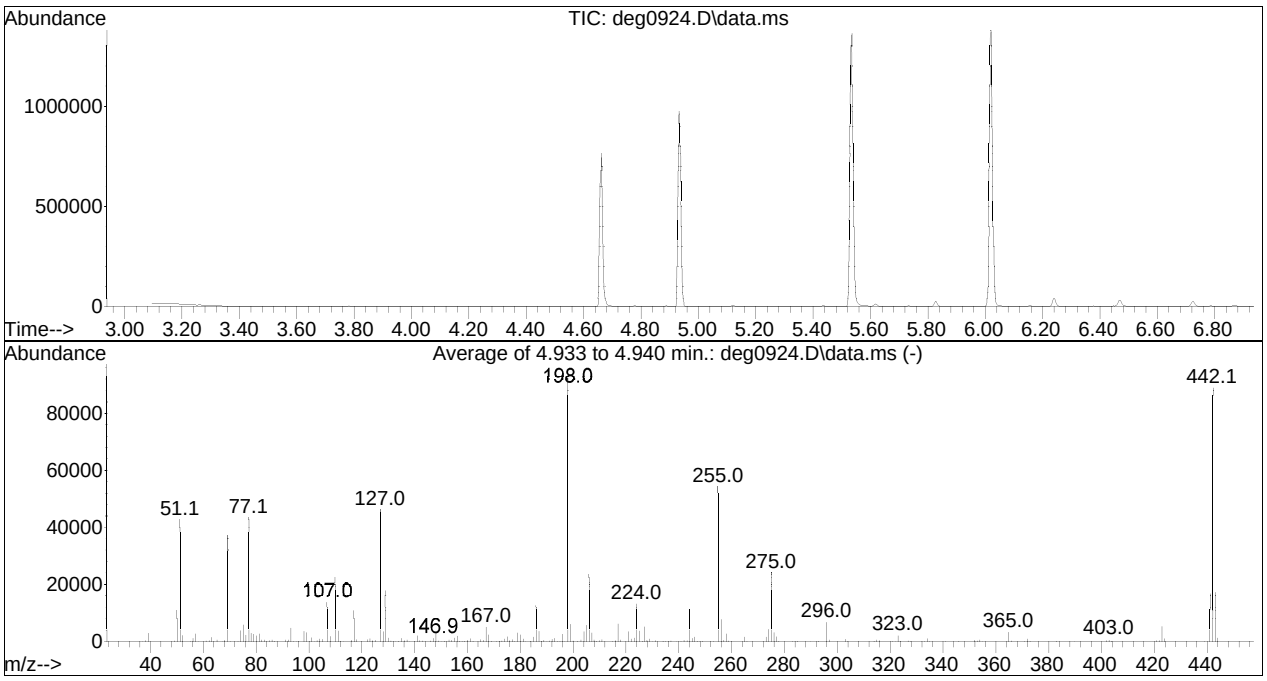
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.41
165.10	53.30	51.12
199.10	17.10	14.92

DFTPP

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : deg0924.D
Acq On : 24 Sep 2024 08:01 am
Operator : SV120:mrg
Sample : WG1975659-1,32,, dftpp SV120 lot#10988
Misc : WG1975659,,ical21368
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 24 08:36:13 2024



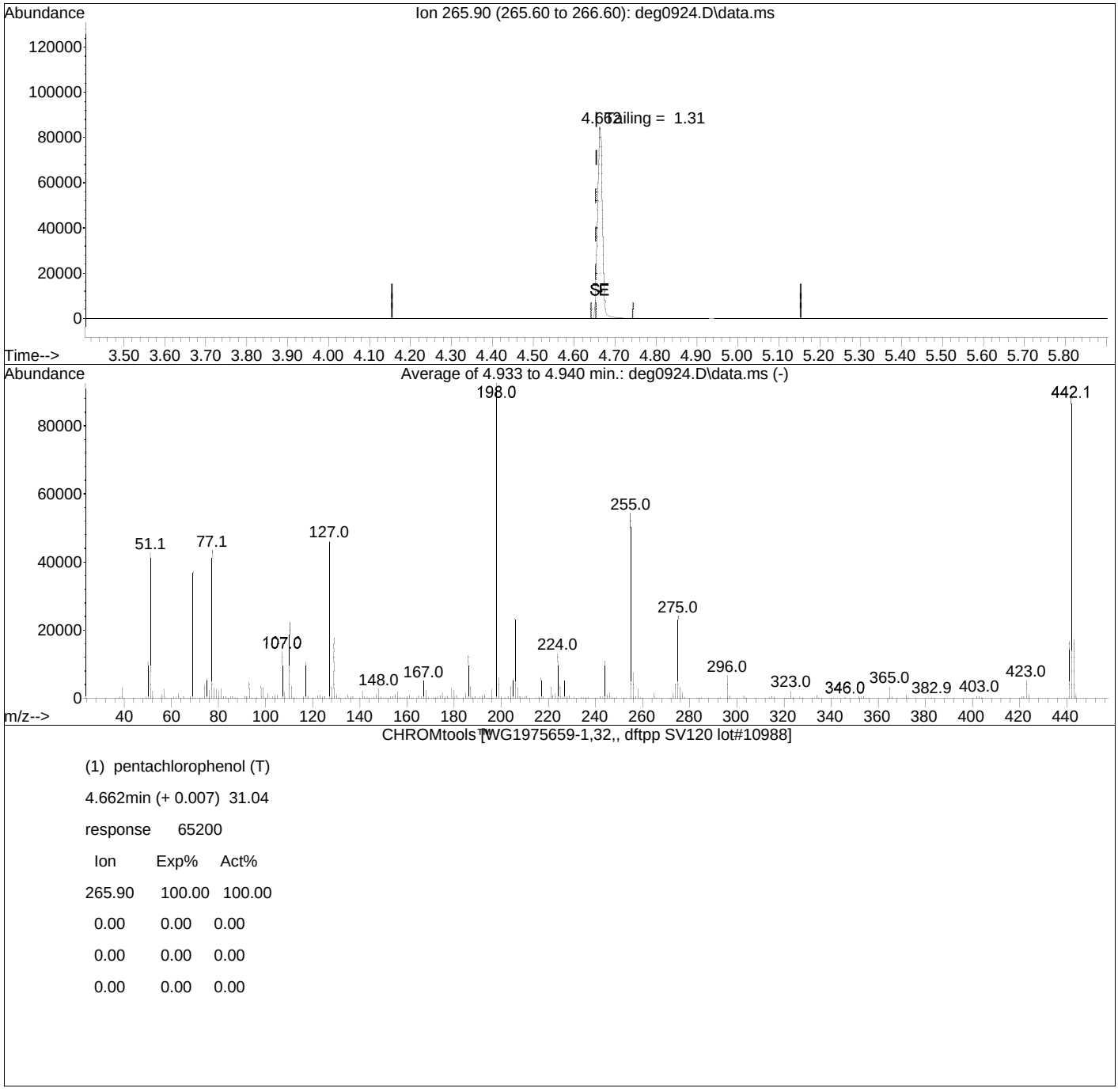
Spectrum Information: Average of 4.933 to 4.940 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.1	42635	PASS
68	69	0.00	2	1.9	687	PASS
69	69	100	100	100.0	37072	PASS
70	69	0.00	2	0.7	272	PASS
127	198	10	80	49.8	46093	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	92523	PASS
199	198	5	9	6.6	6063	PASS
275	198	10	60	26.1	24115	PASS
365	198	1	100	3.6	3339	PASS
441	442	0.01	24	18.8	16783	PASS
442	198	50	100	96.3	89077	PASS
443	442	15	24	19.4	17274	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : deg0924.D
Acq On : 24 Sep 2024 08:01 am
Operator : SV120:mrg
Sample : WG1975659-4,32,, dftpp SV120 lot#10988
Misc : WG1975659,,ical21368
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 24 08:16:54 2024
Quant Method : I:\8270SIM\sv120\240924RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools [WG1975659-1,32,, dftpp SV120 lot#10988]

(1) pentachlorophenol (T)

4.662min (+ 0.007) 31.04

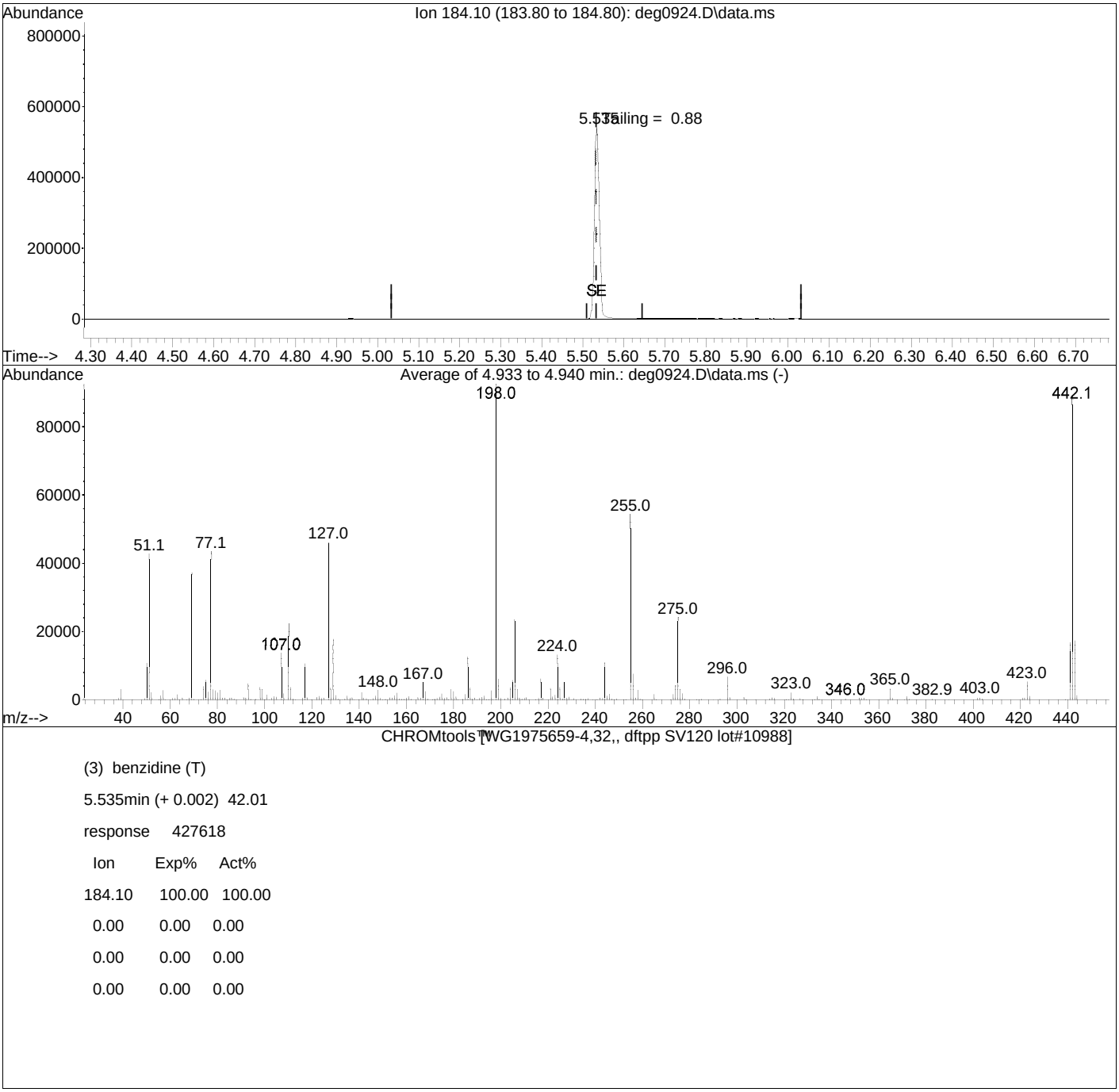
response 65200

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : deg0924.D
Acq On : 24 Sep 2024 08:01 am
Operator : SV120:mrg
Sample : WG1975659-5,32,, dftpp SV120 lot#10988
Misc : WG1975659,,ical21368
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 24 08:16:54 2024
Quant Method : I:\8270SIM\sv120\240924RVT\dftppsv120.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 06 15:55:25 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(3) benzidine (T)

5.535min (+ 0.002) 42.01

response 427618

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 09/24/24 08:20		
Lab File ID	: CCV0924	**Init. Calib. Date(s)**	: 07/28/24	07/28/24	
Sample No	: WG1975659-3	**Init. Calib. Times**	: 16:50	19:15	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	59	0
2-Fluorophenol	1.188	1.214	.05	-2.2	20	61	0
Phenol-d6	1.445	1.471	.05	-1.8	20	61	0
Bis(2-chloroethyl)ether	1.315	1.203	.05	8.5	20	57	0
n-nitrosodi-n-propylamine	0.87	0.893	.05	-2.6	20	60	0
Hexachloroethane	0.561	0.513	.05	8.6	20	55	0
Nitrobenzene-d5	1.176	1.306	.05	-11.1	20	64	0
Naphthalene-d8	1	1	.05	0	20	59	0
Naphthalene	1.149	0.971	.05	15.5	20	54	0
Hexachlorobutadiene	0.197	0.193	.05	2	20	60	0
2-Methylnaphthalene	0.729	0.667	.05	8.5	20	55	0
1-Methylnaphthalene	0.68	0.611	.05	10.1	20	55	0
2-Fluorobiphenyl	0.862	0.776	.05	10	20	56	0
2-Chloronaphthalene	0.741	0.675	.05	8.9	20	55	0
2,6-Dinitrotoluene	1000	1044.048	.05	-4.4	20	66	0
Acenaphthylene	1.063	1.043	.05	1.9	20	55	0
Acenaphthene-d10	1	1	.05	0	20	61	0
Acenaphthene	1.442	1.208	.05	16.2	20	54	0
2,4-Dinitrotoluene	1000	1049.203	.05	-4.9	20	68	0
Fluorene	1.598	1.389	.05	13.1	20	55	0
2,4,6-Tribromophenol	0.22	0.239	.05	-8.6	20	61	0
Phenanthrene-d10	1	1	.05	0	20	62	0
4,6-Dinitro-o-cresol	1000	1221.136	.05	-22.1*	20	79	0
Hexachlorobenzene	0.28	0.242	.05	13.6	20	56	0
Pentachlorophenol	1000	1023.029	.05	-2.3	20	65	0
Phenanthrene	1.188	1.018	.05	14.3	20	55	0
Anthracene	1.146	1.045	.05	8.8	20	56	0
Fluoranthene	1.283	1.203	.05	6.2	20	58	0
Pyrene	1.337	1.28	.05	4.3	20	58	0
4-Terphenyl-d14	0.838	0.732	.05	12.6	20	55	0
Chrysene-d12	1	1	.05	0	20	66	0
Benzo[a]anthracene	1000	837.702	.05	16.2	20	56	0
3,3'-Dichlorobenzene	1000	940.509	.05	5.9	20	67	0
Chrysene	1.455	1.23	.05	15.5	20	57	0
Bis(2-ethylhexyl)phthalate	1000	871.59	.05	12.8	20	59	0
Perylene-d12	1	1	.05	0	20	66	0
Benzo[b]fluoranthene	1.35	1.242	.05	8	20	61	0
Benzo[k]fluoranthene	1.272	1.164	.05	8.5	20	55	0
Benzo[a]pyrene	1.08	1.089	.05	-0.8	20	60	0
Indeno[1,2,3-cd]pyrene	1.012	1.093	.05	-8	20	67	0
Dibenzo[a,h]anthracene	0.95	1.02	.05	-7.4	20	64	0
Benzo[g,h,i]perylene	1.034	1.023	.05	1.1	20	61	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 09/24/24 11:50		
Lab File ID	: CCV0924A	**Init. Calib. Date(s)**	: 06/21/24	06/21/24	
Sample No	: WG1975503-3	**Init. Calib. Times**	: 14:50	17:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	194	0
2-Fluorophenol	1.411	1.218	.05	13.7	20	167	0
Phenol-d6	1.78	1.708	.05	4	20	179	0
Bis(2-chloroethyl)ether	1.43	1.366	.05	4.5	20	186	0
n-nitrosodi-n-propylamine	1.088	1.055	.05	3	20	177	0
Hexachloroethane	0.664	0.574	.05	13.6	20	172	0
Nitrobenzene-d5	1.561	1.499	.05	4	20	178	0
Naphthalene-d8	1	1	.05	0	20	188	0
Naphthalene	1.104	1.01	.05	8.5	20	175	0
Hexachlorobutadiene	0.248	0.21	.05	15.3	20	165	0
2-Methylnaphthalene	0.83	0.755	.05	9	20	167	0
1-Methylnaphthalene	0.802	0.684	.05	14.7	20	166	0
2-Fluorobiphenyl	1.034	0.891	.05	13.8	20	170	0
2-Chloronaphthalene	0.894	0.802	.05	10.3	20	171	0
2,6-Dinitrotoluene	0.241	0.216	.05	10.4	20	157	0
Acenaphthylene	1.429	1.178	.05	17.6	20	156	0
Acenaphthene-d10	1	1	.05	0	20	187	0
Acenaphthene	1.396	1.27	.05	9	20	171	0
2,4-Dinitrotoluene	0.535	0.5	.05	6.5	20	157	0
Fluorene	1.84	1.58	.05	14.1	20	164	0
2,4,6-Tribromophenol	0.279	0.226	.05	19	20	136	0
Phenanthrene-d10	1	1	.05	0	20	164	0
4,6-Dinitro-o-cresol	1000	957.787	.05	4.2	20	158	0
Hexachlorobenzene	0.275	0.235	.05	14.5	20	147	0
Pentachlorophenol	1000	906.928	.05	9.3	20	142	0
Phenanthrene	1.163	1.056	.05	9.2	20	155	0
Anthracene	1.201	1.13	.05	5.9	20	154	0
Fluoranthene	1.597	1.338	.05	16.2	20	147	0
Pyrene	1.655	1.389	.05	16.1	20	149	0
4-Terphenyl-d14	1.106	0.775	.05	29.9*	20	124	0
Chrysene-d12	1	1	.05	0	20	167	0
Benzo[a]anthracene	1000	898.106	.05	10.2	20	141	0
3,3'-Dichlorobenzene	0.611	0.611	.05	0	20	155	0
Chrysene	1.489	1.26	.05	15.4	20	139	0
Bis(2-ethylhexyl)phthalate	1000	841.823	.05	15.8	20	139	0
Perylene-d12	1	1	.05	0	20	152	0
Benzo[b]fluoranthene	1.657	1.369	.05	17.4	20	129	0
Benzo[k]fluoranthene	1.531	1.32	.05	13.8	20	143	0
Benzo[a]pyrene	1.467	1.259	.05	14.2	20	133	0
Indeno[1,2,3-cd]pyrene	1.483	1.227	.05	17.3	20	126	0
Dibenzo[a,h]anthracene	1.321	1.093	.05	17.3	20	129	0
Benzo[g,h,i]perylene	1.459	1.156	.05	20.8*	20	126	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 09/25/24 08:17		
Lab File ID	: CCV0925	**Init. Calib. Date(s)**	: 06/21/24	06/21/24	
Sample No	: WG1976035-3	**Init. Calib. Times**	: 14:50	17:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	103	0
2-Fluorophenol	1.411	1.169	.05	17.2	20	85	0
Phenol-d6	1.78	1.553	.05	12.8	20	86	0
Bis(2-chloroethyl)ether	1.43	1.198	.05	16.2	20	87	0
n-nitrosodi-n-propylamine	1.088	0.92	.05	15.4	20	82	0
Hexachloroethane	0.664	0.508	.05	23.5*	20	81	0
Nitrobenzene-d5	1.561	1.336	.05	14.4	20	84	0
Naphthalene-d8	1	1	.05	0	20	98	0
Naphthalene	1.104	0.964	.05	12.7	20	87	0
Hexachlorobutadiene	0.248	0.228	.05	8.1	20	94	0
2-Methylnaphthalene	0.83	0.753	.05	9.3	20	87	0
1-Methylnaphthalene	0.802	0.675	.05	15.8	20	86	0
2-Fluorobiphenyl	1.034	0.95	.05	8.1	20	95	0
2-Chloronaphthalene	0.894	0.827	.05	7.5	20	92	0
2,6-Dinitrotoluene	0.241	0.229	.05	5	20	87	0
Acenaphthylene	1.429	1.206	.05	15.6	20	84	0
Acenaphthene-d10	1	1	.05	0	20	103	0
Acenaphthene	1.396	1.2	.05	14	20	89	0
2,4-Dinitrotoluene	0.535	0.5	.05	6.5	20	86	0
Fluorene	1.84	1.549	.05	15.8	20	88	0
2,4,6-Tribromophenol	0.279	0.256	.05	8.2	20	85	0
Phenanthrene-d10	1	1	.05	0	20	95	0
4,6-Dinitro-o-cresol	1000	952.964	.05	4.7	20	91	0
Hexachlorobenzene	0.275	0.238	.05	13.5	20	86	0
Pentachlorophenol	1000	829.905	.05	17	20	75	0
Phenanthrene	1.163	0.996	.05	14.4	20	84	0
Anthracene	1.201	1.075	.05	10.5	20	84	0
Fluoranthene	1.597	1.358	.05	15	20	86	0
Pyrene	1.655	1.4	.05	15.4	20	87	0
4-Terphenyl-d14	1.106	0.868	.05	21.5*	20	80	0
Chrysene-d12	1	1	.05	0	20	107	0
Benzo[a]anthracene	1000	859.337	.05	14.1	20	86	0
3,3'-Dichlorobenzene	0.611	0.624	.05	-2.1	20	101	0
Chrysene	1.489	1.187	.05	20.3*	20	84	0
Bis(2-ethylhexyl)phthalate	1000	738.247	.05	26.2*	20	77	0
Perylene-d12	1	1	.05	0	20	105	0
Benzo[b]fluoranthene	1.657	1.301	.05	21.5*	20	84	0
Benzo[k]fluoranthene	1.531	1.231	.05	19.6	20	92	0
Benzo[a]pyrene	1.467	1.216	.05	17.1	20	88	0
Indeno[1,2,3-cd]pyrene	1.483	1.303	.05	12.1	20	92	0
Dibenzo[a,h]anthracene	1.321	1.097	.05	17	20	89	0
Benzo[g,h,i]perylene	1.459	1.166	.05	20.1*	20	87	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : ccv0924a.D
Acq On : 24 Sep 2024 11:50 am
Operator : sv119:rp
Sample : WG1975503-3,32,,ICV 10884 (0921)
Misc : WG1975503,,ical21236
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 24 12:08:02 2024
Quant Method : I:\8270SIM\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:04 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	194	0.00
2	s	2-Fluorophenol	1.411	1.218	13.7	167	0.00
3	s	Phenol-d6	1.780	1.708	4.0	179	0.00
4	T	Bis(2-chloroethyl)ether	1.430	1.366	4.5	186	0.00
5	T	n-nitrosodi-n-propylamine	1.088	1.055	3.0	177	0.00
6	t	Hexachloroethane	0.664	0.574	13.6	172	0.00
7	s	Nitrobenzene-d5	1.561	1.499	4.0	178	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	188	0.00
9	t	Naphthalene	1.104	1.010	8.5	175	0.00
10	t	Hexachlorobutadiene	0.248	0.210	15.3	165	0.00
11	t	2-Methylnaphthalene	0.830	0.755	9.0	167	0.00
12	t	1-Methylnaphthalene	0.802	0.684	14.7	166	0.00
13	s	2-Fluorobiphenyl	1.034	0.891	13.8	170	0.00
14	t	2-Chloronaphthalene	0.894	0.802	10.3	171	0.00
15	t	2,6-Dinitrotoluene	0.241	0.216	10.4	157	0.00
16	t	Acenaphthylene	1.429	1.178	17.6	156	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	187	0.00
18	t	Acenaphthene	1.396	1.270	9.0	171	0.00
19	t	2,4-Dinitrotoluene	0.535	0.500	6.5	157	0.00
20	t	Fluorene	1.840	1.580	14.1	164	0.00
21	s	2,4,6-Tribromophenol	0.279	0.226	19.0	136	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	164	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	957.787	4.2	158	0.00
24	t	Hexachlorobenzene	0.275	0.235	14.5	147	0.00
25	t	Pentachlorophenol	*1000.000	906.928	9.3	142	0.00
26	t	Phenanthrene	1.163	1.056	9.2	155	0.00
27	t	Anthracene	1.201	1.130	5.9	154	0.00
28	t	Fluoranthene	1.597	1.338	16.2	147	0.00
29	t	Pyrene	1.655	1.389	16.1	149	0.00
30	s	4-Terphenyl-d14	1.106	0.775	29.9#	124	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	167	0.00
32	t	Benzo[a]anthracene	*1000.000	898.106	10.2	141	0.00
33	t	3,3'-Dichlorobenzene	0.611	0.611	0.0	155	0.00
34	t	Chrysene	1.489	1.260	15.4	139	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	841.823	15.8	139	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : ccv0924a.D
Acq On : 24 Sep 2024 11:50 am
Operator : sv119:rp
Sample : WG1975503-3,32,,ICV 10884 (0921)
Misc : WG1975503,,ical21236
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 24 12:08:02 2024
Quant Method : I:\8270SIM\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:04 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	152	0.00
37	t	Benzo[b]fluoranthene	1.657	1.369	17.4	129	0.00
38	t	Benzo[k]fluoranthene	1.531	1.320	13.8	143	0.00
39	t	Benzo[a]pyrene	1.467	1.259	14.2	133	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.483	1.227	17.3	126	0.00
41	t	Dibenzo[a,h]anthracene	1.321	1.093	17.3	129	0.00
42	t	Benzo[g,h,i]perylene	1.459	1.156	20.8#	126	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : ccv0924a.D
Acq On : 24 Sep 2024 11:50 am
Operator : sv119:rp
Sample : WG1975503-3,32,,ICV 10884 (0921)
Misc : WG1975503,,ical21236
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 24 12:08:02 2024
Quant Method : I:\8270SIM\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:04 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.230	152	360674	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.882	136	1297180	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.846	164	791976	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.679	188	1684497	4000.000	ng/ml	0.00
31) Chrysene-d12	6.253	240	1616975	4000.000	ng/ml	0.00
36) Perylene-d12	7.440	264	1491013	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.658	112	109832	863.260	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.16%			
3) Phenol-d6	2.049	99	154041	959.949	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 48.00%			
7) Nitrobenzene-d5	2.507	82	135149	960.152	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 96.02%			
13) 2-Fluorobiphenyl	3.469	172	288789	861.146	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 86.11%			
21) 2,4,6-Tribromophenol	4.287	330	44684	808.069	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 40.40%			
30) 4-Terphenyl-d14	5.600	244	326436	701.003	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 35.05%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.096	93	123133	955.102	ng/ml	85
5) n-nitrosodi-n-propylamine	2.427	70	95151	969.504	ng/ml	97
6) Hexachloroethane	2.484	117	51735	864.562	ng/ml	94
9) Naphthalene	2.893	128	327604	914.760	ng/ml	100
10) Hexachlorobutadiene	2.962	225	68223	848.679	ng/ml	99
11) 2-Methylnaphthalene	3.267	142	244912	909.961	ng/ml	98
12) 1-Methylnaphthalene	3.321	142	221856	852.774	ng/ml	98
14) 2-Chloronaphthalene	3.532	162	260000	896.631	ng/ml	95
15) 2,6-Dinitrotoluene	3.728	165	69893	895.113	ng/ml	94
16) Acenaphthylene	3.764	152	381939	824.429	ng/ml	100
18) Acenaphthene	3.861	153	251494	909.740	ng/ml	99
19) 2,4-Dinitrotoluene	3.953	165	98989	935.035	ng/ml	95
20) Fluorene	4.149	166	312809	858.502	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.184	198	66316	957.787	ng/ml	95
24) Hexachlorobenzene	4.468	284	98845	854.598	ng/ml	96
25) Pentachlorophenol	4.578	266	65094	906.928	ng/ml	99
26) Phenanthrene	4.691	178	444549	907.779	ng/ml	99
27) Anthracene	4.718	178	475773	940.321	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : ccv0924a.D
Acq On : 24 Sep 2024 11:50 am
Operator : sv119:rp
Sample : WG1975503-3,32,,ICV 10884 (0921)
Misc : WG1975503,,ical21236
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 24 12:08:02 2024
Quant Method : I:\8270SIM\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:04 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.373	202	563295	837.705	ng/ml	98
29) Pyrene	5.506	202	584863	839.354	ng/ml	98
32) Benzo[a]anthracene	6.244	228	549974	898.106	ng/ml	100
33) 3,3'-Dichlorobenzene	6.229	252	246929	999.839	ng/ml#	98
34) Chrysene	6.267	228	509215	846.143	ng/ml	97
35) Bis(2-ethylhexyl)phtha...	6.267	149	366977	841.823	ng/ml	99
37) Benzo[b]fluoranthene	7.066	252	510196	826.169	ng/ml	100
38) Benzo[k]fluoranthene	7.093	252	491879	862.168	ng/ml	99
39) Benzo[a]pyrene	7.373	252	469387	858.203	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.630	276	457427	827.327	ng/ml	98
41) Dibenzo[a,h]anthracene	8.661	278	407516M6	827.417	ng/ml	
42) Benzo[g,h,i]perylene	8.966	276	430794	792.137	ng/ml	99

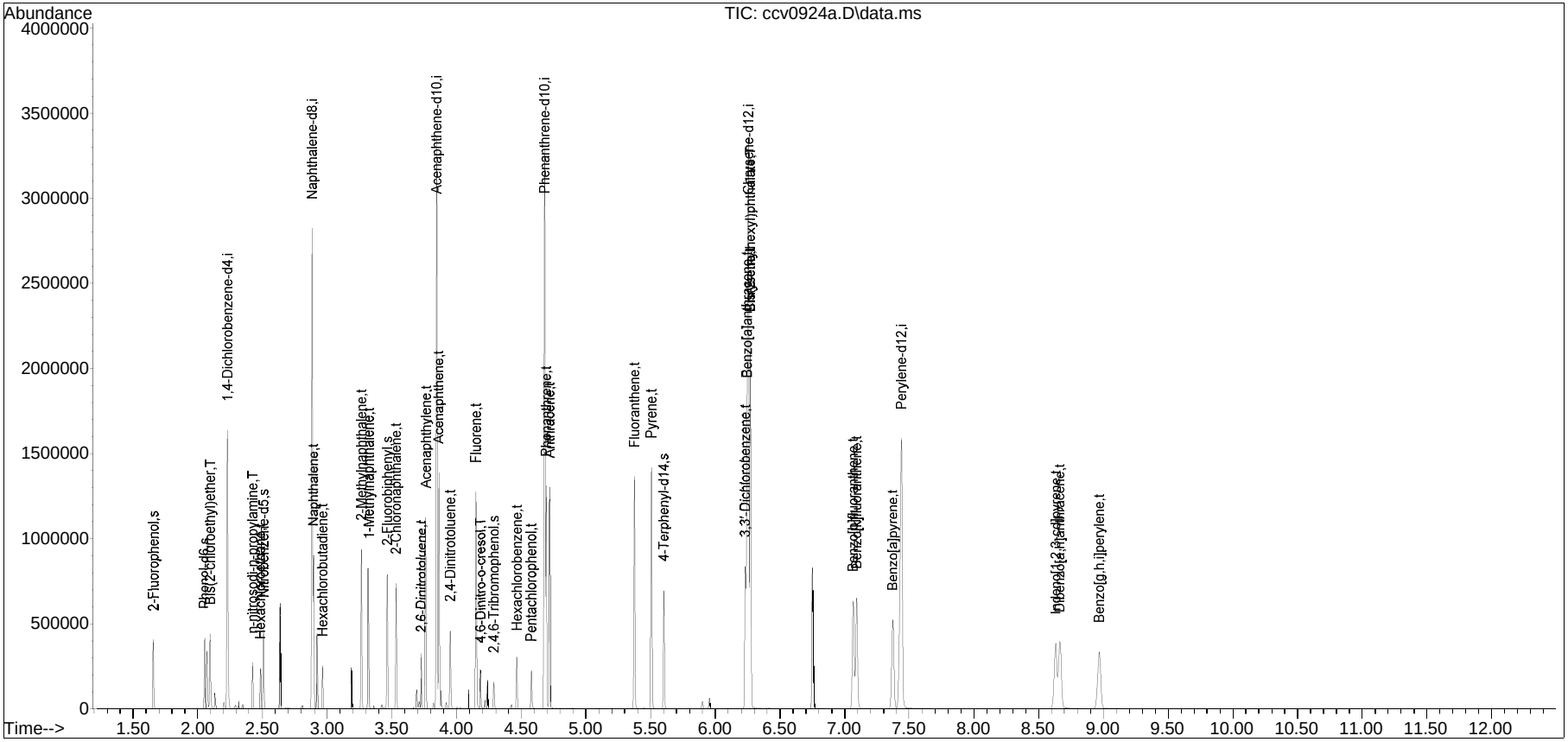
(#) = qualifier out of range (m) = manual integration (+) = signals summed

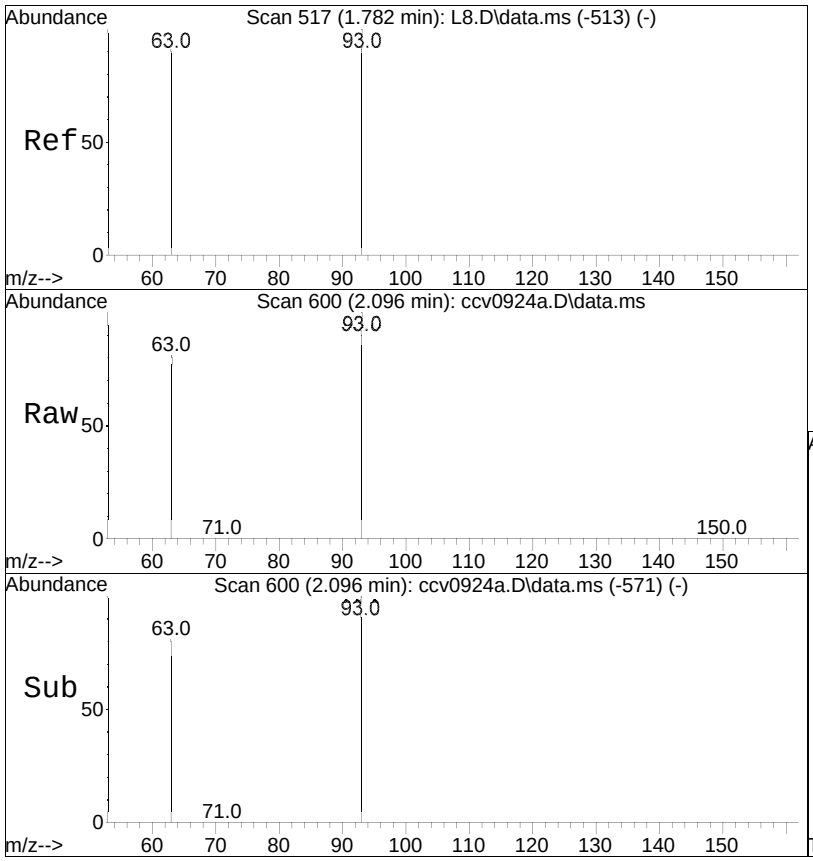
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : ccv0924a.D
Acq On : 24 Sep 2024 11:50 am
Operator : sv119:rp
Sample : WG1975503-3,32,,ICV 10884 (0921)
Misc : WG1975503,,ical21236
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 24 12:08:02 2024
Quant Method : I:\8270SIM\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 12:09:04 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

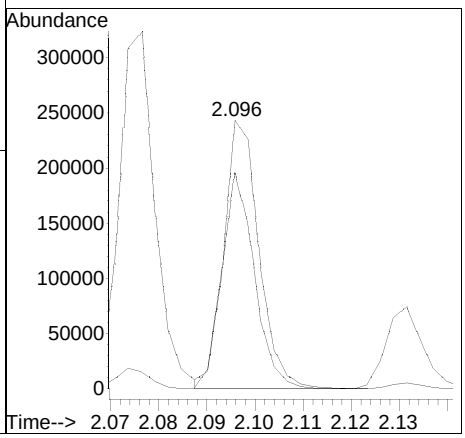


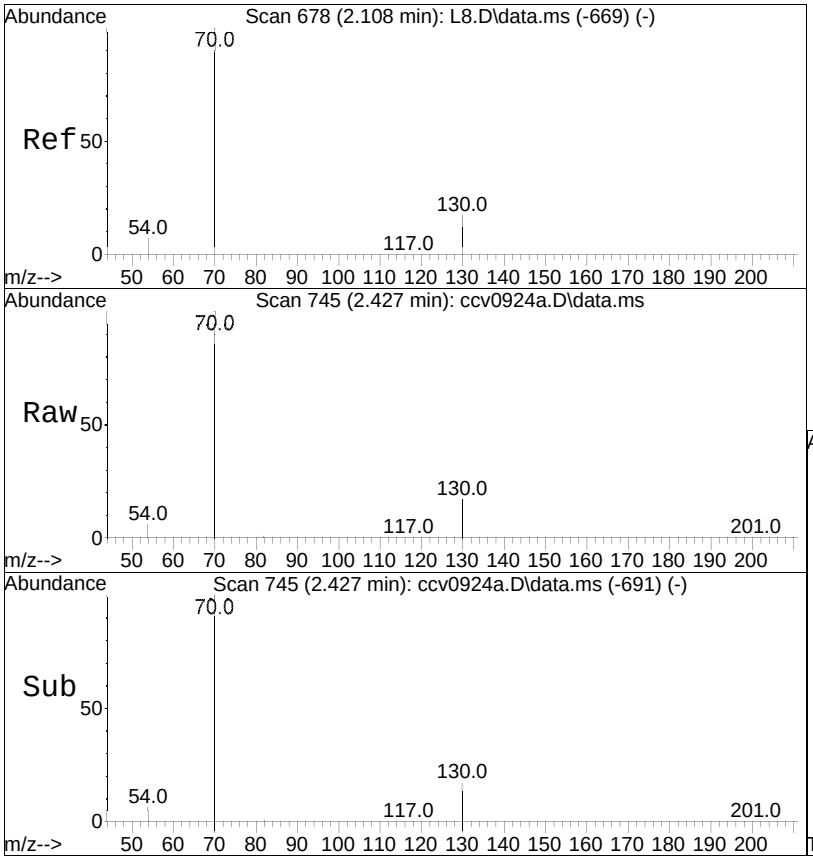


#4
Bis(2-chloroethyl)ether
Concen: 955.10 ng/ml
RT: 2.096 min Scan# 600
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion: 93 Resp: 123133

Ion	Ratio	Lower	Upper
93	100		
63	75.2	71.7	107.5

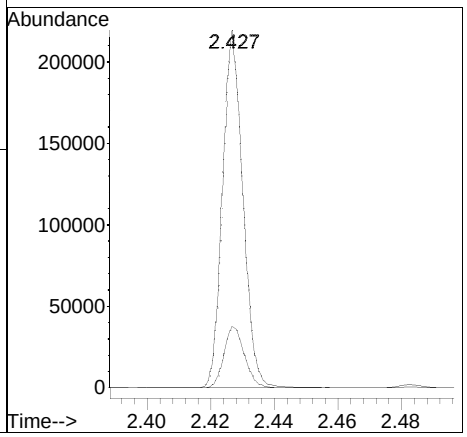


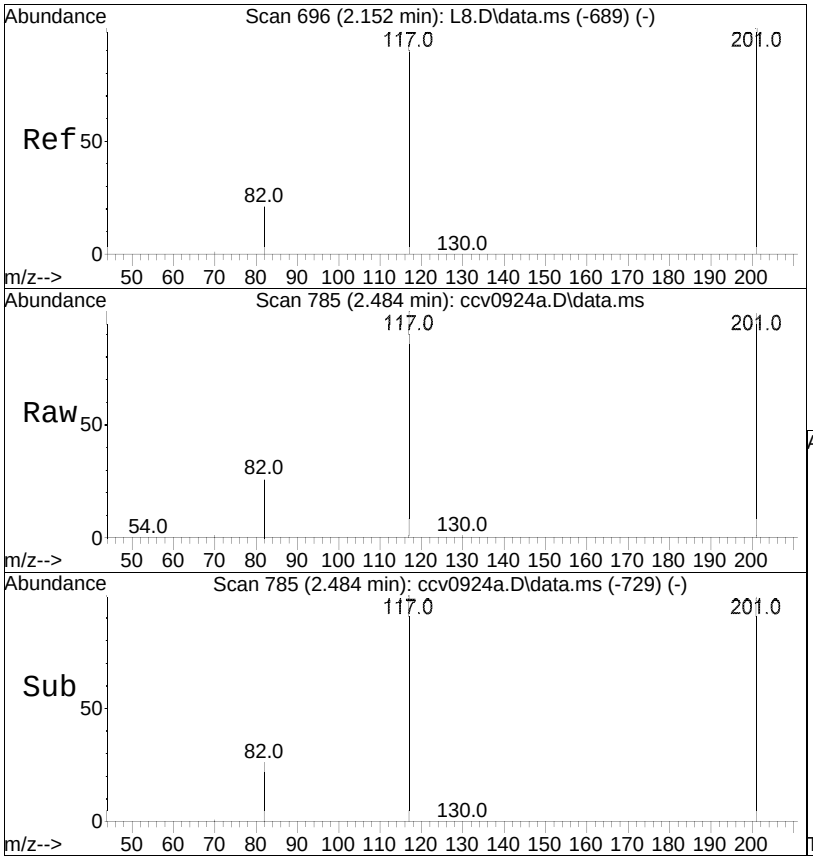


#5
n-nitrosodi-n-propylamine
Concen: 969.50 ng/ml
RT: 2.427 min Scan# 745
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion: 70 Resp: 95151

Ion	Ratio	Lower	Upper
70	100		
130	17.5	15.1	22.7

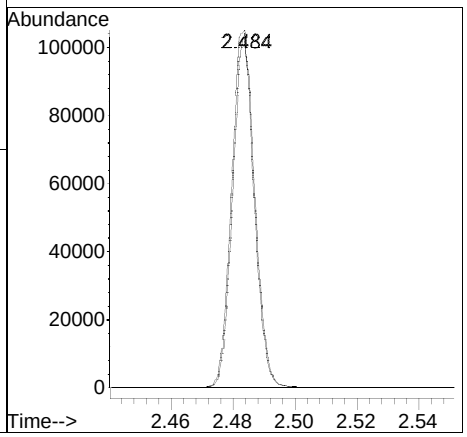


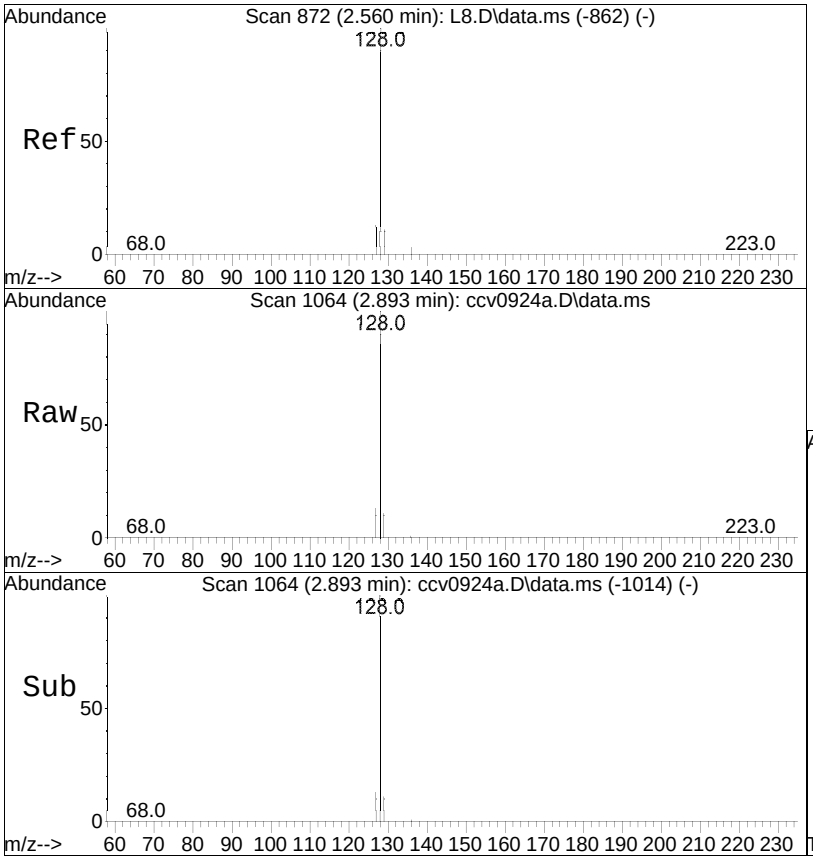


#6
Hexachloroethane
Concen: 864.56 ng/ml
RT: 2.484 min Scan# 785
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:117 Resp: 51735

Ion	Ratio	Lower	Upper
117	100		
201	97.8	83.0	124.6

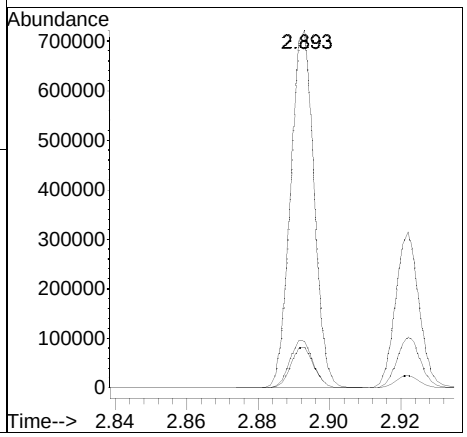


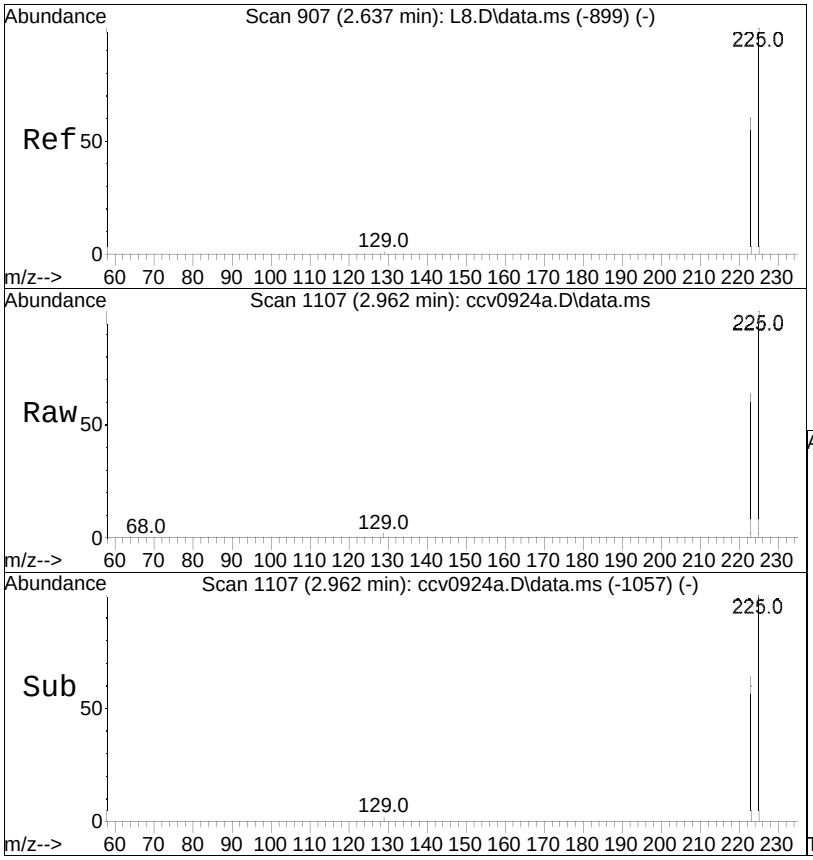


#9
Naphthalene
Concen: 914.76 ng/ml
RT: 2.893 min Scan# 1064
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:128 Resp: 327604

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.4
127	13.2	10.6	15.8

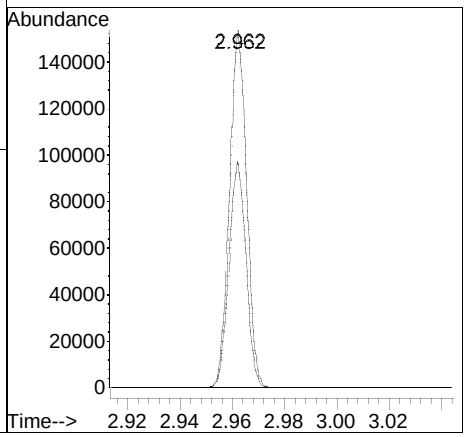


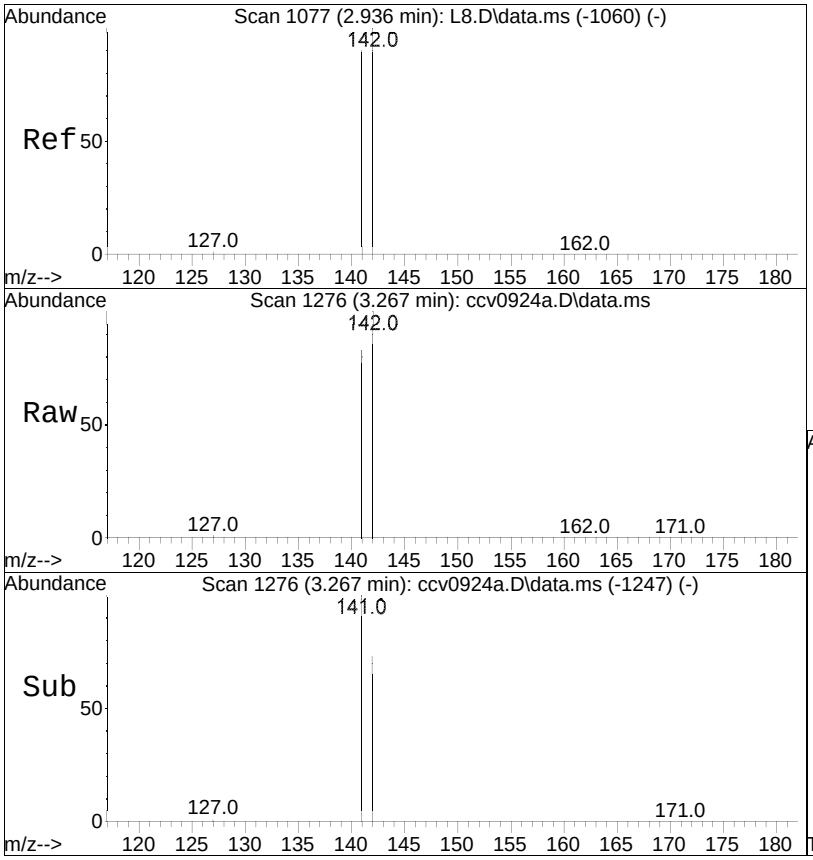


#10
Hexachlorobutadiene
Concen: 848.68 ng/ml
RT: 2.962 min Scan# 1107
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:225 Resp: 68223

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.2	75.2

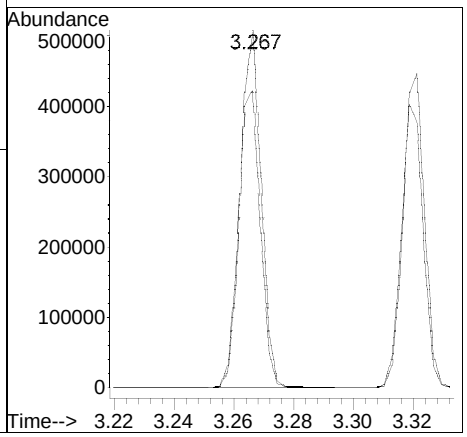


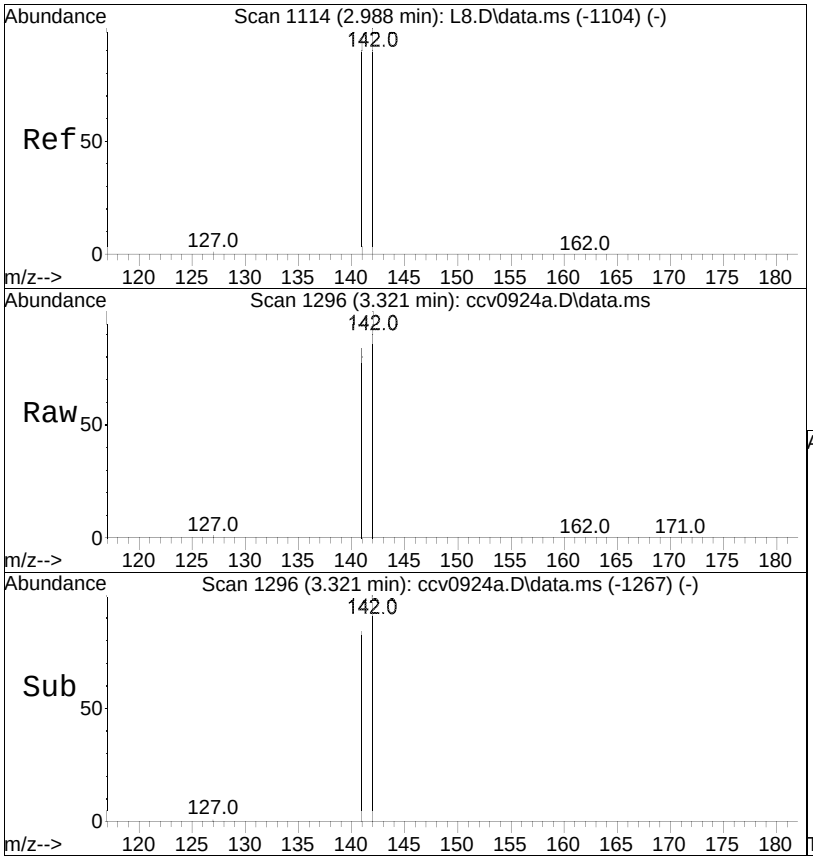


#11
2-Methylnaphthalene
Concen: 909.96 ng/ml
RT: 3.267 min Scan# 1276
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:142 Resp: 244912

Ion	Ratio	Lower	Upper
142	100		
141	88.2	72.3	108.5

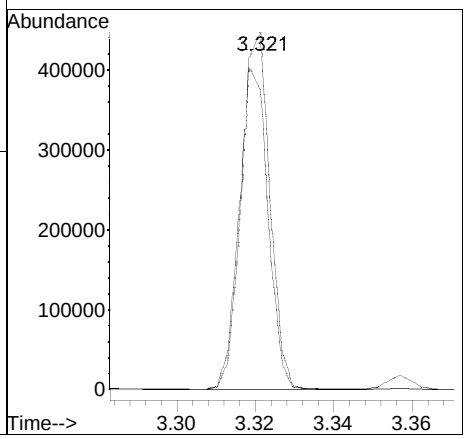


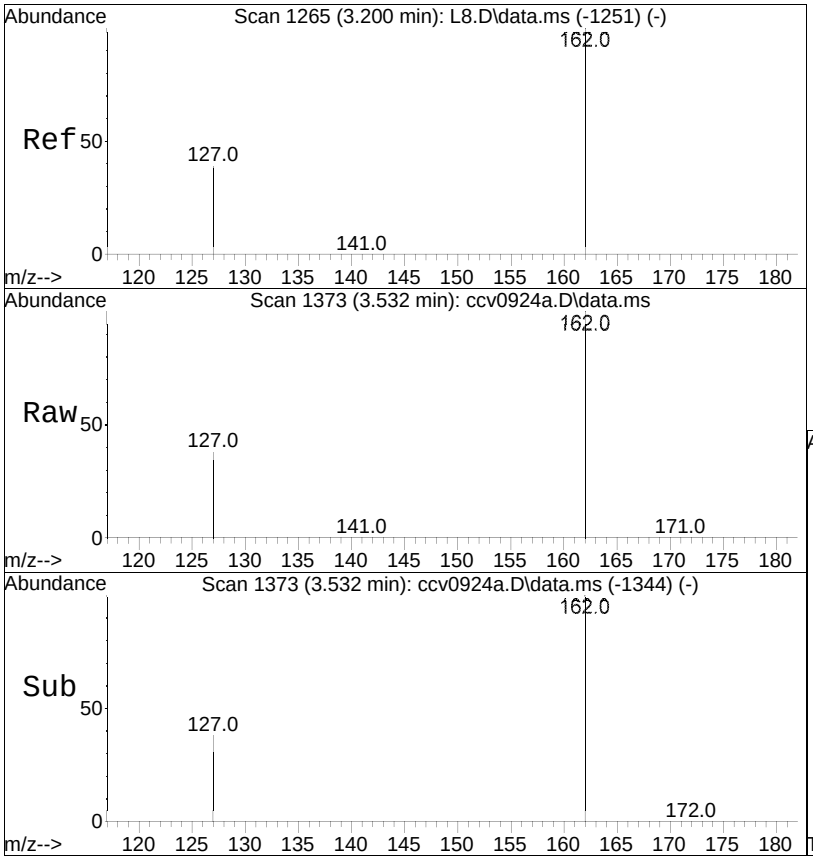


#12
1-Methylnaphthalene
Concen: 852.77 ng/ml
RT: 3.321 min Scan# 1296
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:142 Resp: 221856

Ion	Ratio	Lower	Upper
142	100		
141	91.6	74.9	112.3

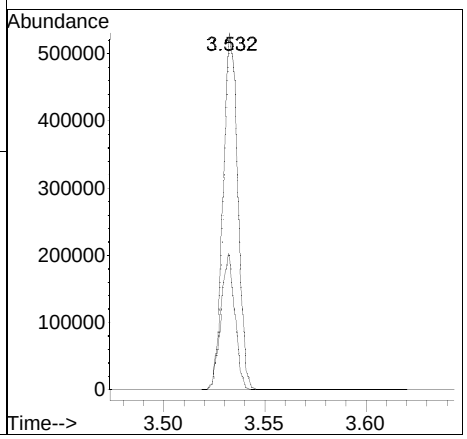


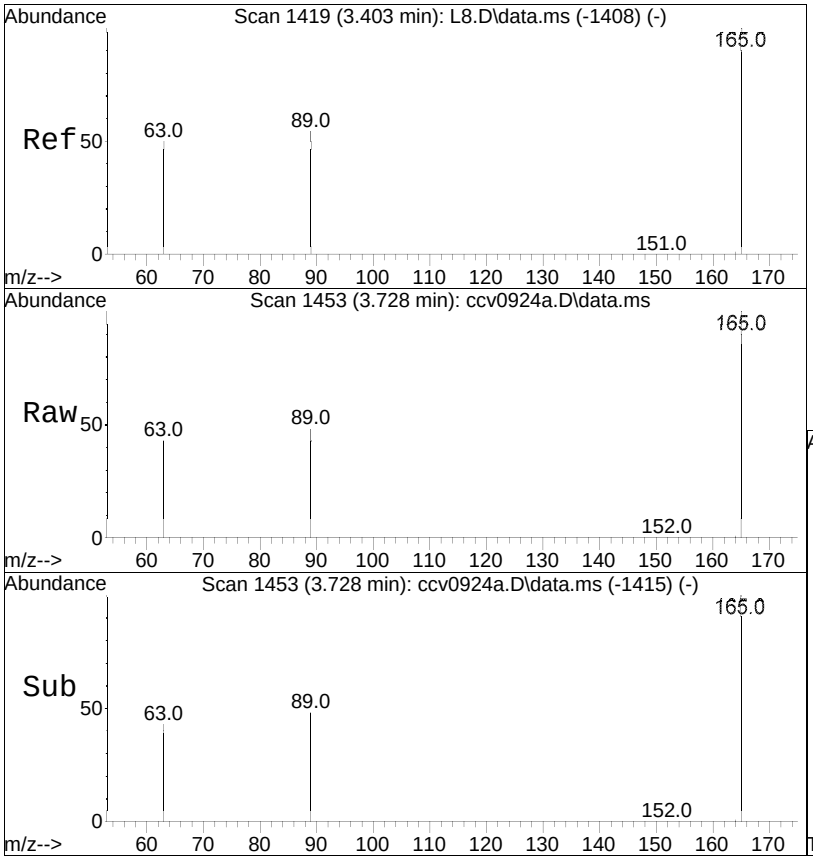


#14
2-Chloronaphthalene
Concen: 896.63 ng/ml
RT: 3.532 min Scan# 1373
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:162 Resp: 260000

Ion	Ratio	Lower	Upper
162	100		
127	36.8	32.0	48.0

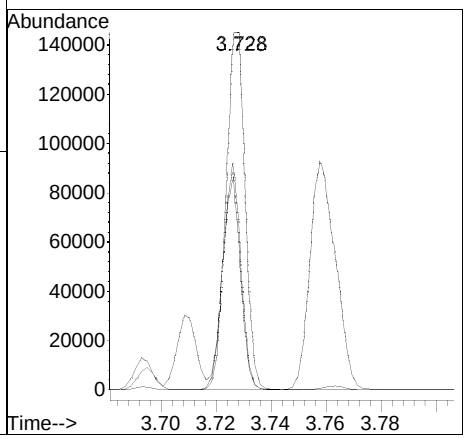


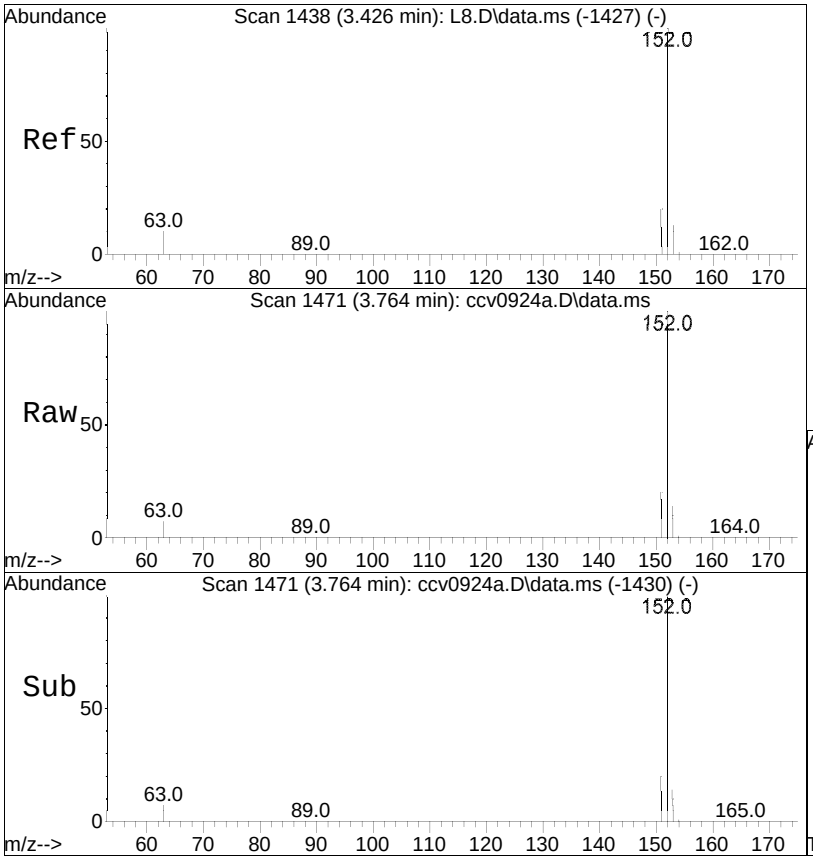


#15
2,6-Dinitrotoluene
Concen: 895.11 ng/ml
RT: 3.728 min Scan# 1453
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:165 Resp: 69893

Ion	Ratio	Lower	Upper
165	100		
89	59.7	45.7	68.5
63	56.3	49.8	74.6

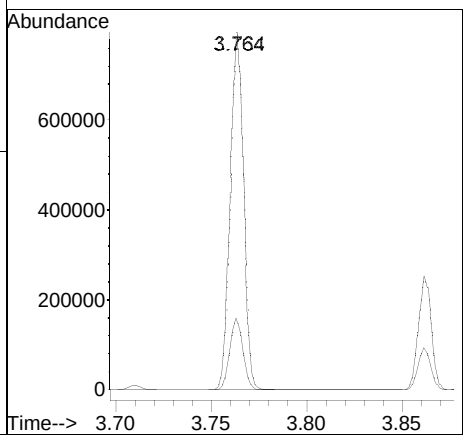


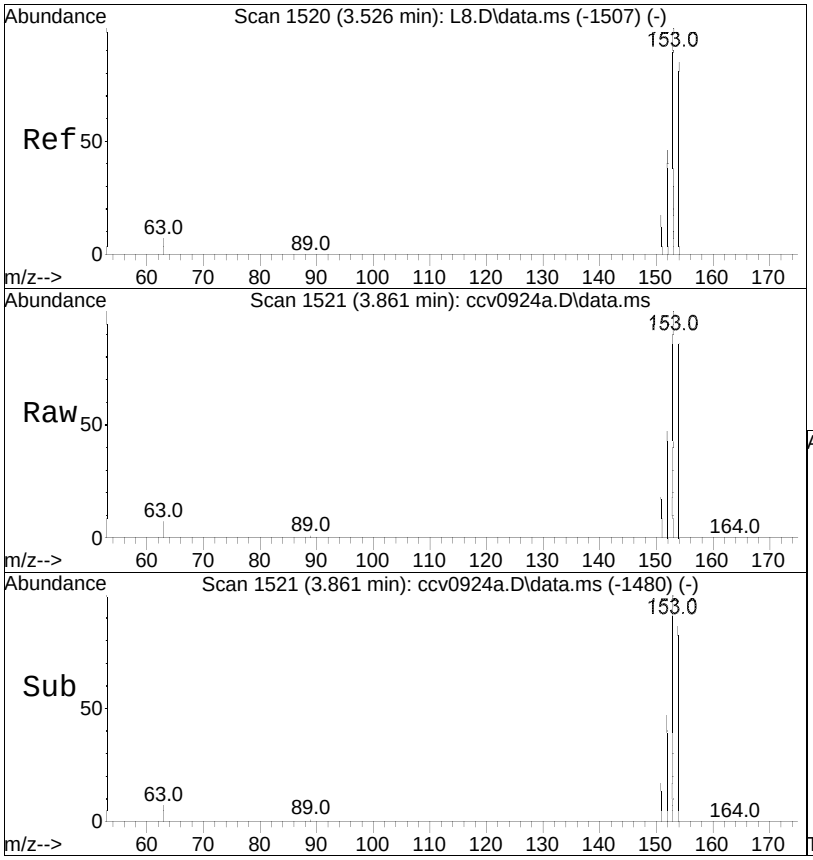


#16
Acenaphthylene
Concen: 824.43 ng/ml
RT: 3.764 min Scan# 1471
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:152 Resp: 381939

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0

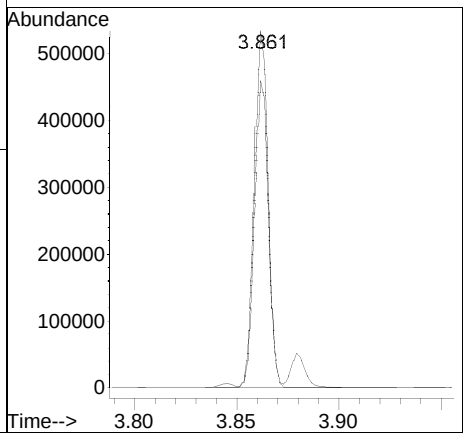


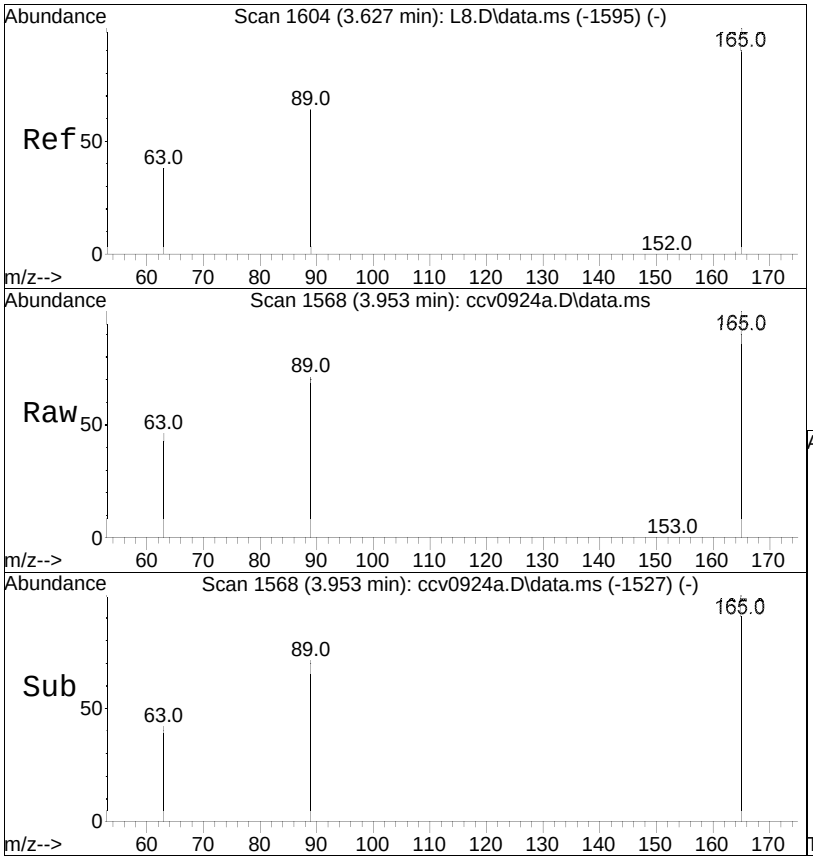


#18
Acenaphthene
Concen: 909.74 ng/ml
RT: 3.861 min Scan# 1521
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:153 Resp: 251494

Ion	Ratio	Lower	Upper
153	100		
154	85.7	68.1	102.1

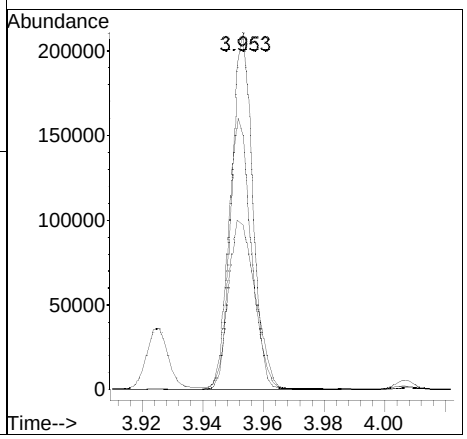


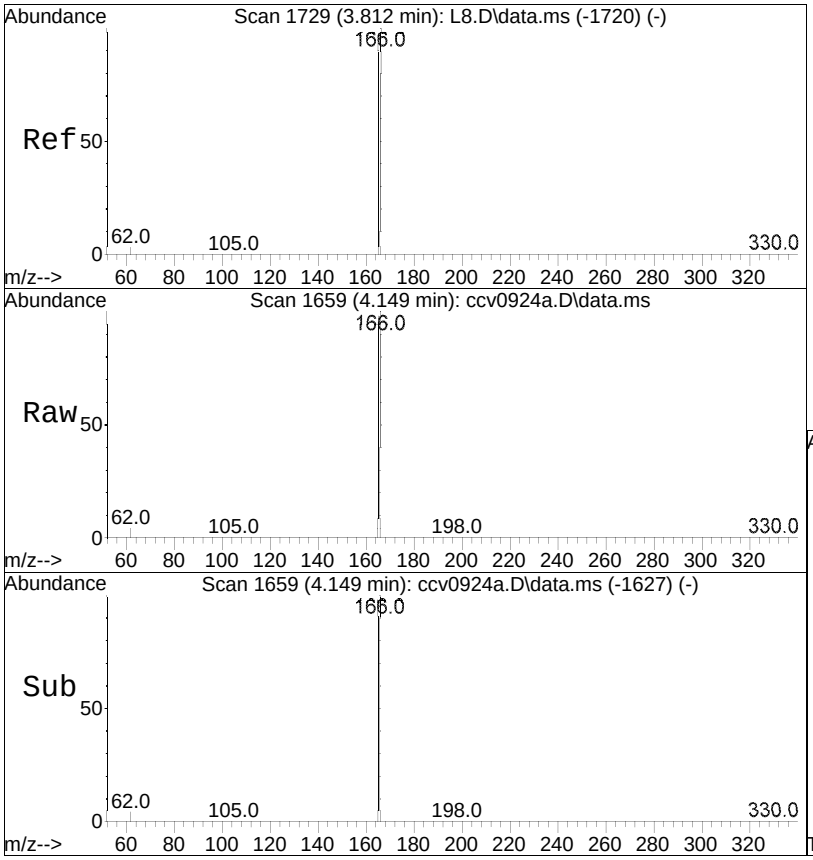


#19
2,4-Dinitrotoluene
Concen: 935.04 ng/ml
RT: 3.953 min Scan# 1568
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:165 Resp: 98989

Ion	Ratio	Lower	Upper
165	100		
89	84.9	65.8	98.6
63	62.5	55.0	82.4

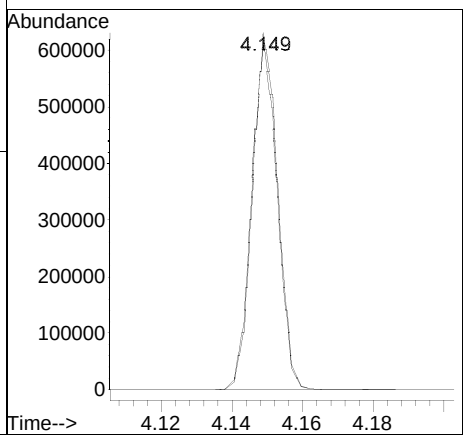


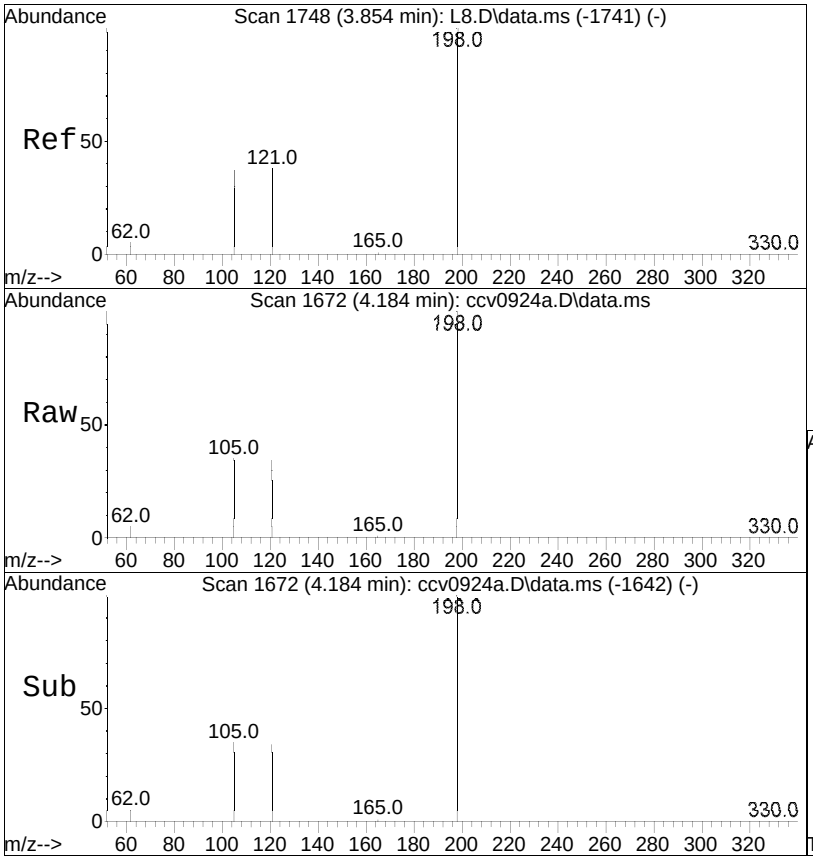


#20
Fluorene
Concen: 858.50 ng/ml
RT: 4.149 min Scan# 1659
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:166 Resp: 312809

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.3	118.9

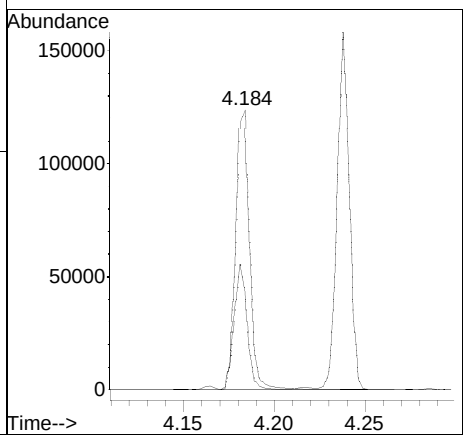


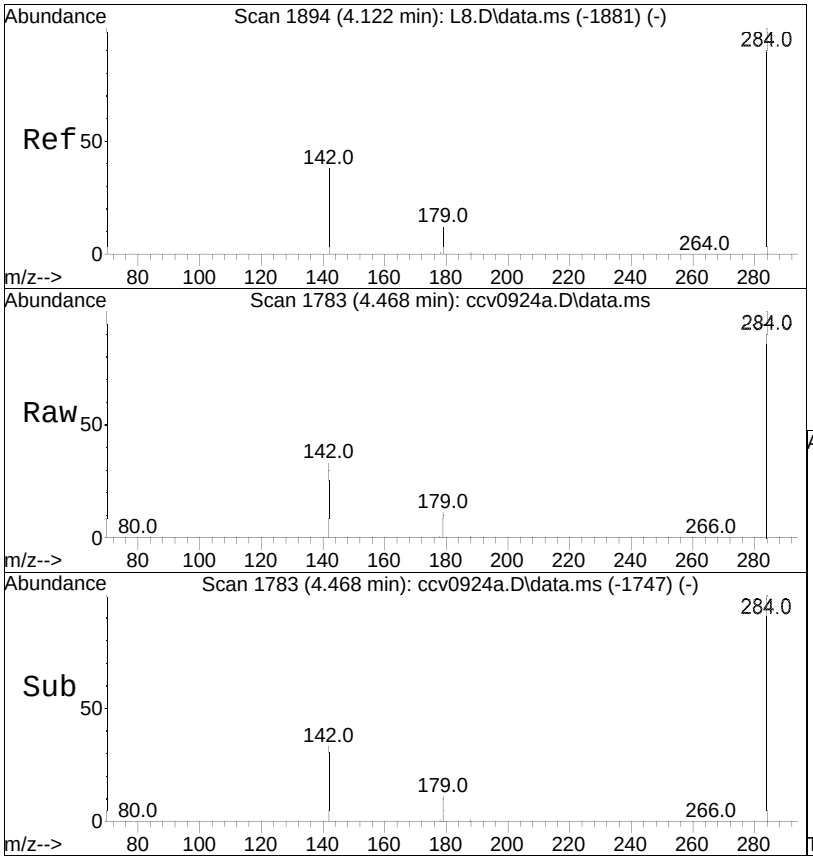


#23
4,6-Dinitro-o-cresol
Concen: 957.79 ng/ml
RT: 4.184 min Scan# 1672
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:198 Resp: 66316

Ion	Ratio	Lower	Upper
198	100		
105	41.5	35.6	53.4

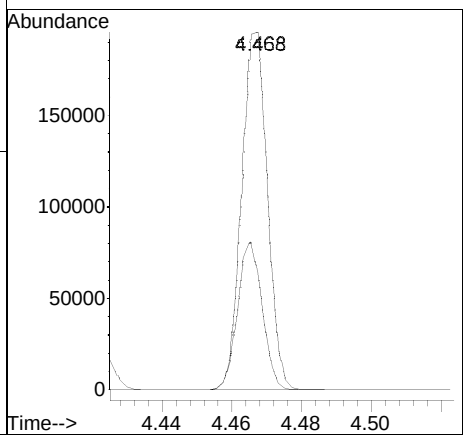


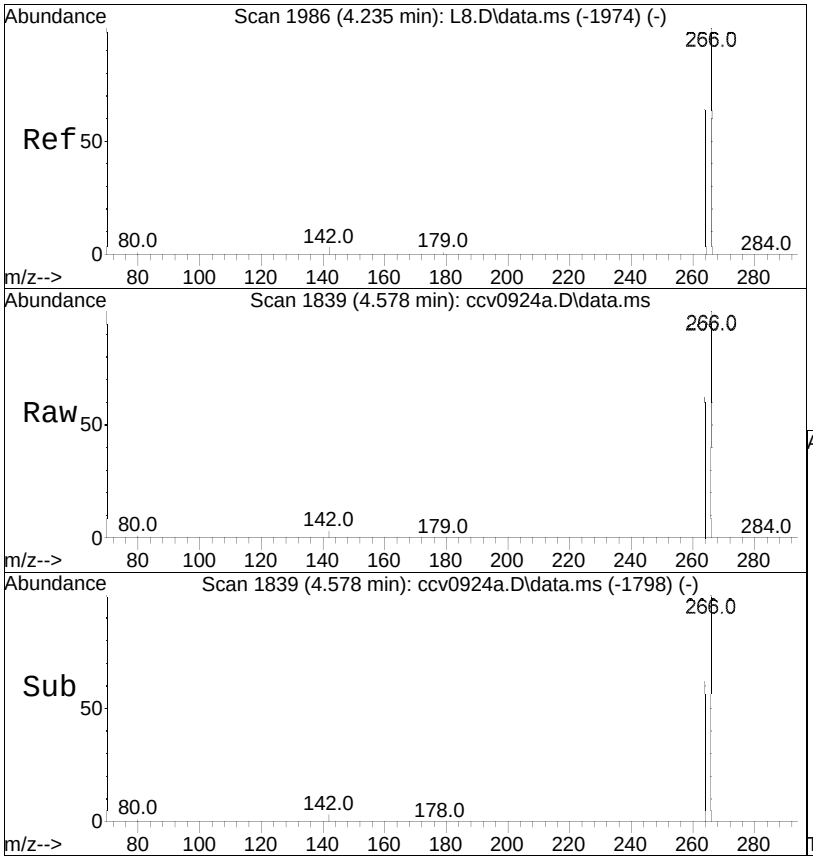


#24
Hexachlorobenzene
Concen: 854.60 ng/ml
RT: 4.468 min Scan# 1783
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:284 Resp: 98845

Ion	Ratio	Lower	Upper
284	100		
142	39.9	30.0	45.0

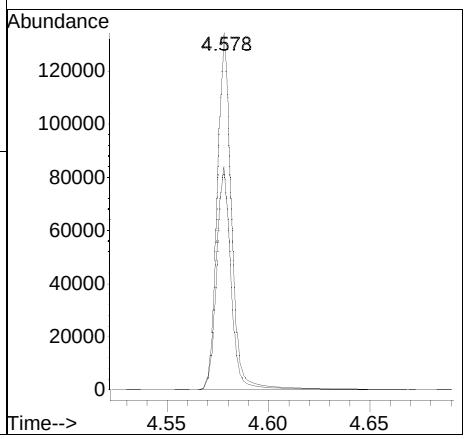


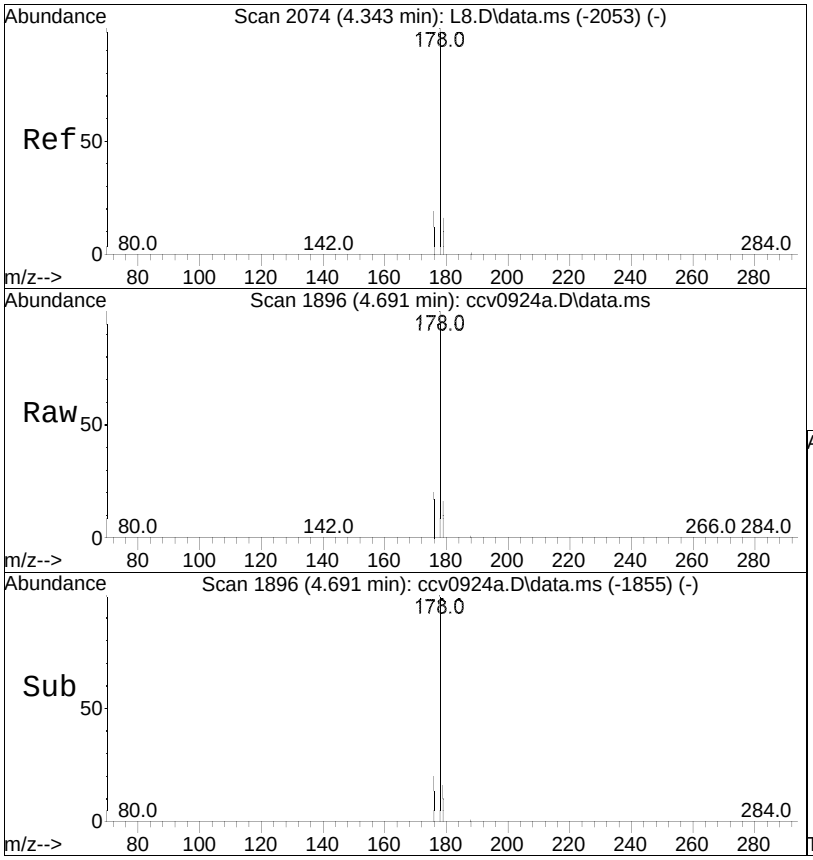


#25
Pentachlorophenol
Concen: 906.93 ng/ml
RT: 4.578 min Scan# 1839
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:266 Resp: 65094

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.9	74.9

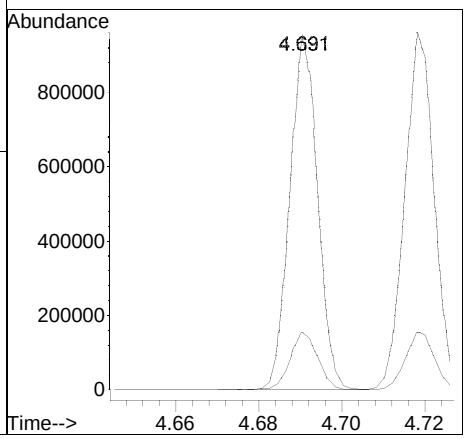


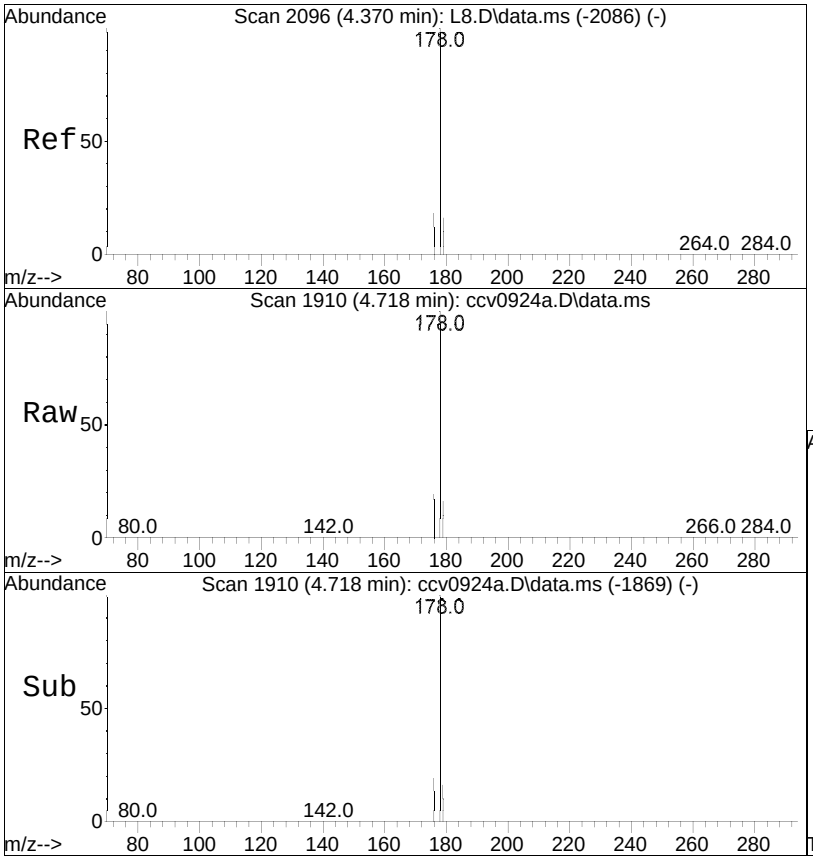


#26
Phenanthrene
Concen: 907.78 ng/ml
RT: 4.691 min Scan# 1896
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:178 Resp: 444549

Ion	Ratio	Lower	Upper
178	100		
179	16.2	12.6	18.8

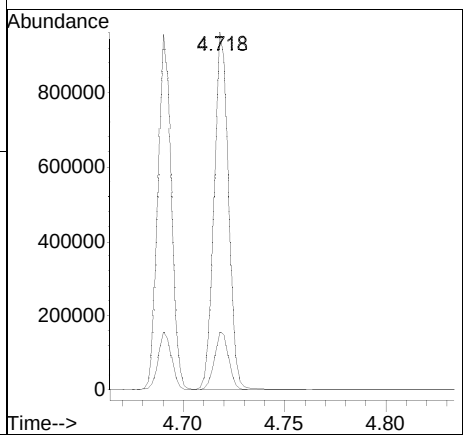


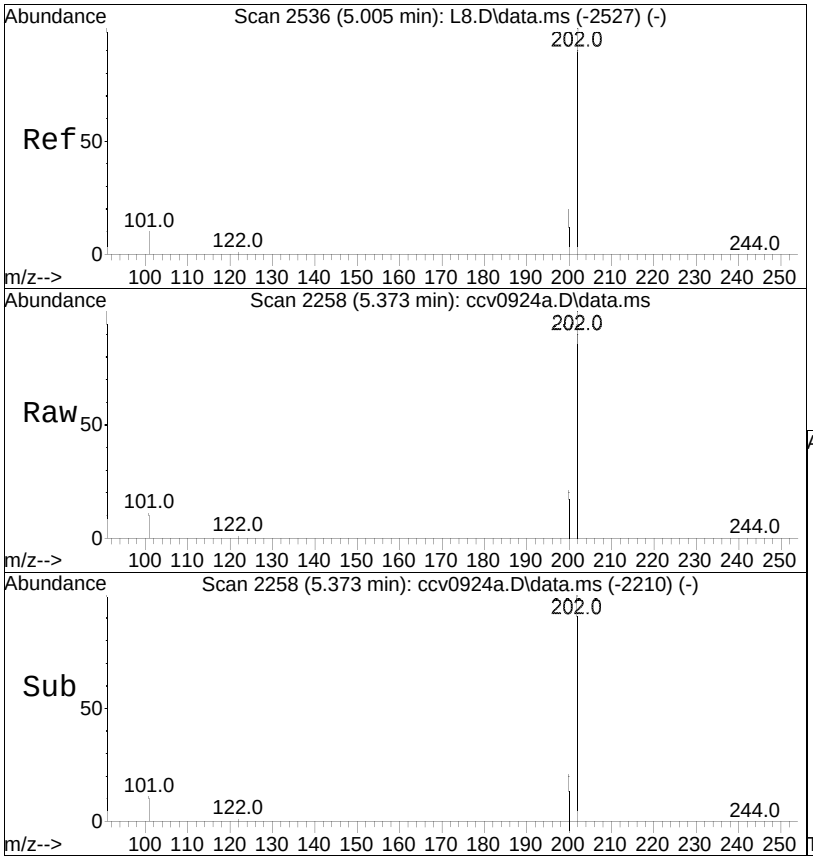


#27
Anthracene
Concen: 940.32 ng/ml
RT: 4.718 min Scan# 1910
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:178 Resp: 475773

Ion	Ratio	Lower	Upper
178	100		
179	15.9	12.4	18.6

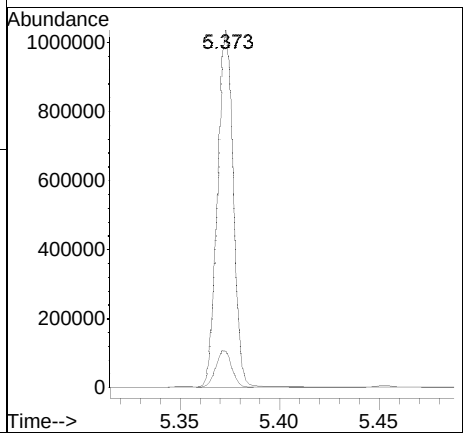


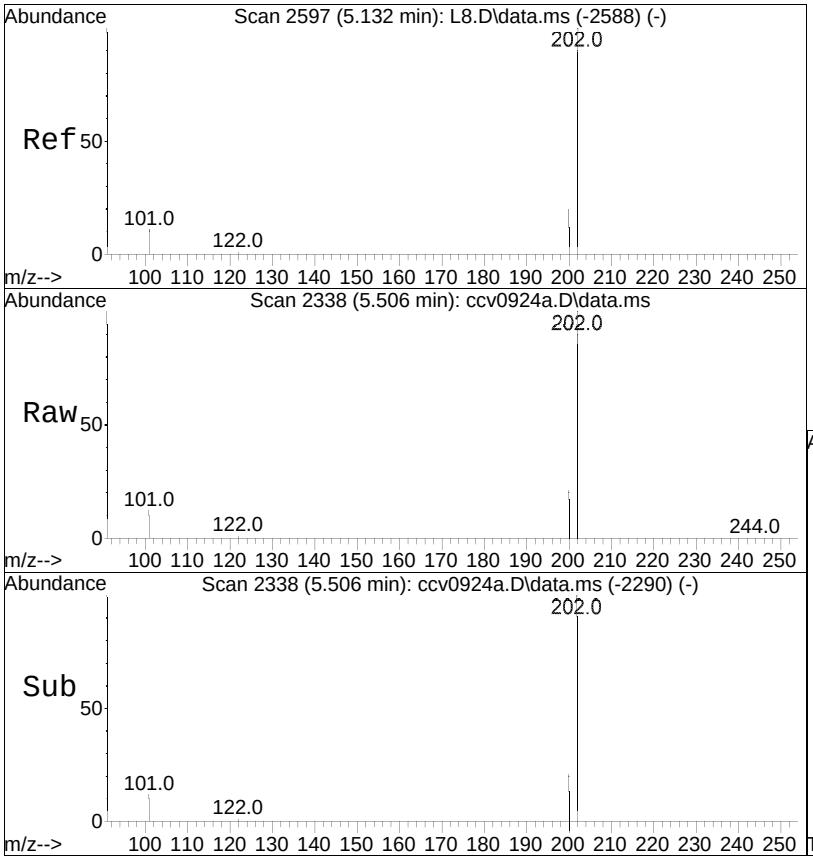


#28
Fluoranthene
Concen: 837.71 ng/ml
RT: 5.373 min Scan# 2258
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:202 Resp: 563295

Ion	Ratio	Lower	Upper
202	100		
101	10.7	8.1	12.1

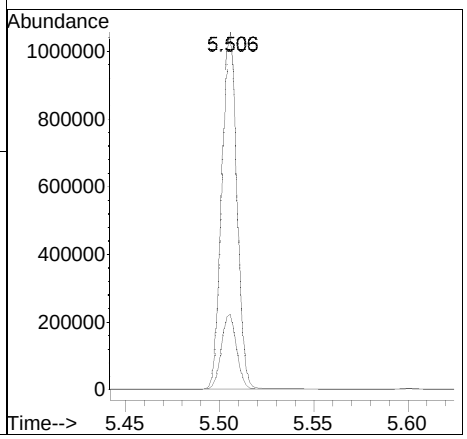


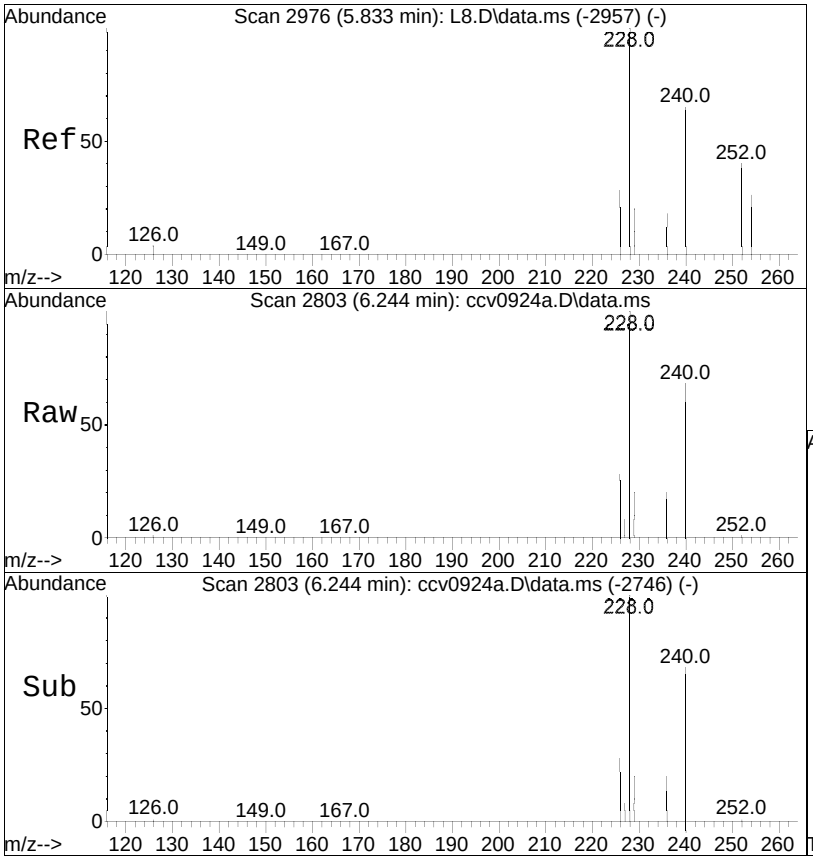


#29
Pyrene
Concen: 839.35 ng/ml
RT: 5.506 min Scan# 2338
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:202 Resp: 584863

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.5	24.7

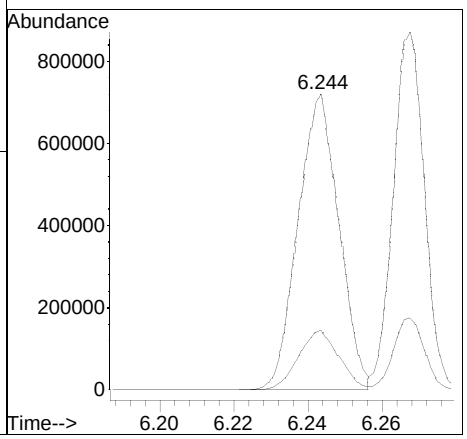


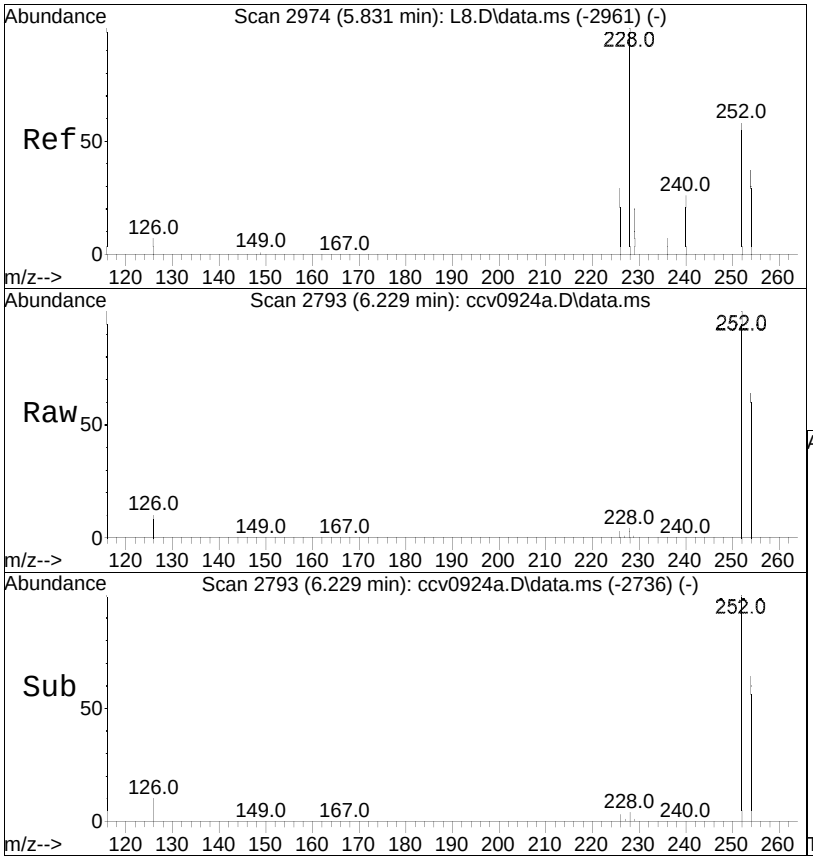


#32
Benzo[a]anthracene
Concen: 898.11 ng/ml
RT: 6.244 min Scan# 2803
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:228 Resp: 549974

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.8	23.8

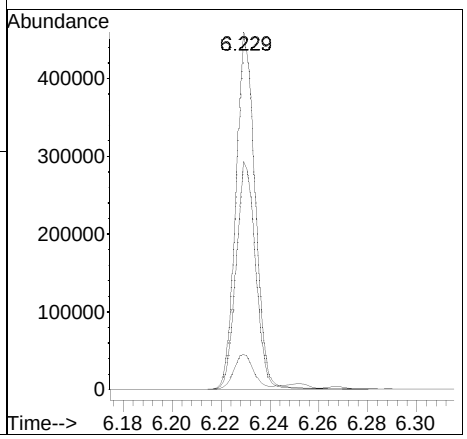


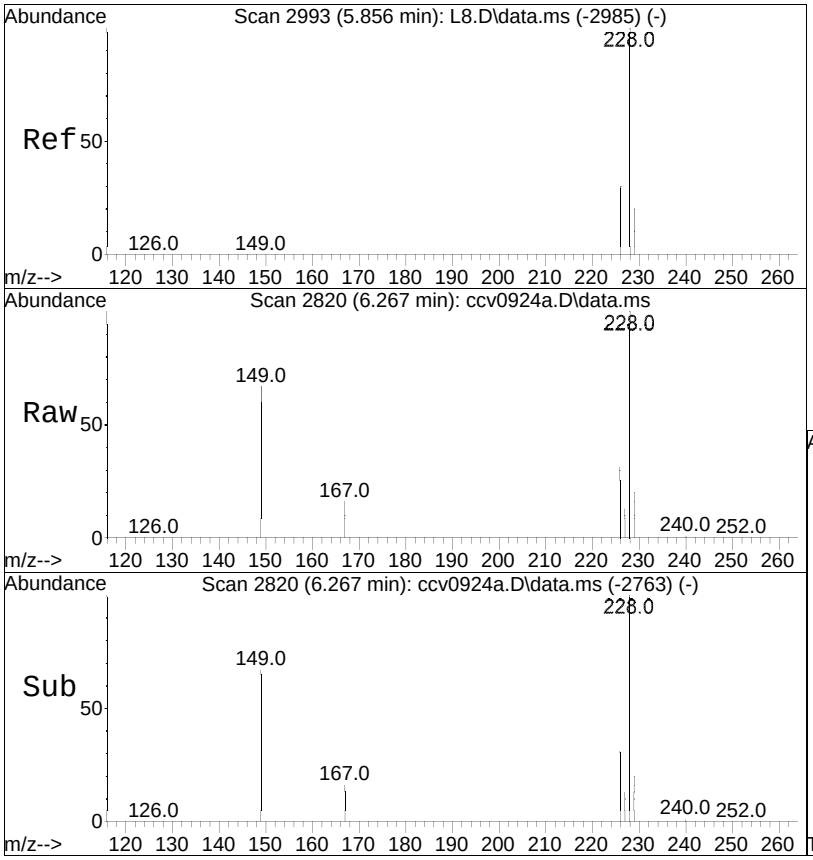


#33
3,3'-Dichlorobenzene
Concen: 999.84 ng/ml
RT: 6.229 min Scan# 2793
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:252 Resp: 246929

Ion	Ratio	Lower	Upper
252	100		
126	10.4	10.5	15.7#
254	65.0	51.4	77.0

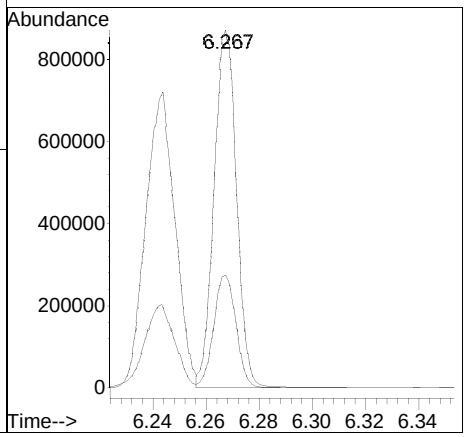


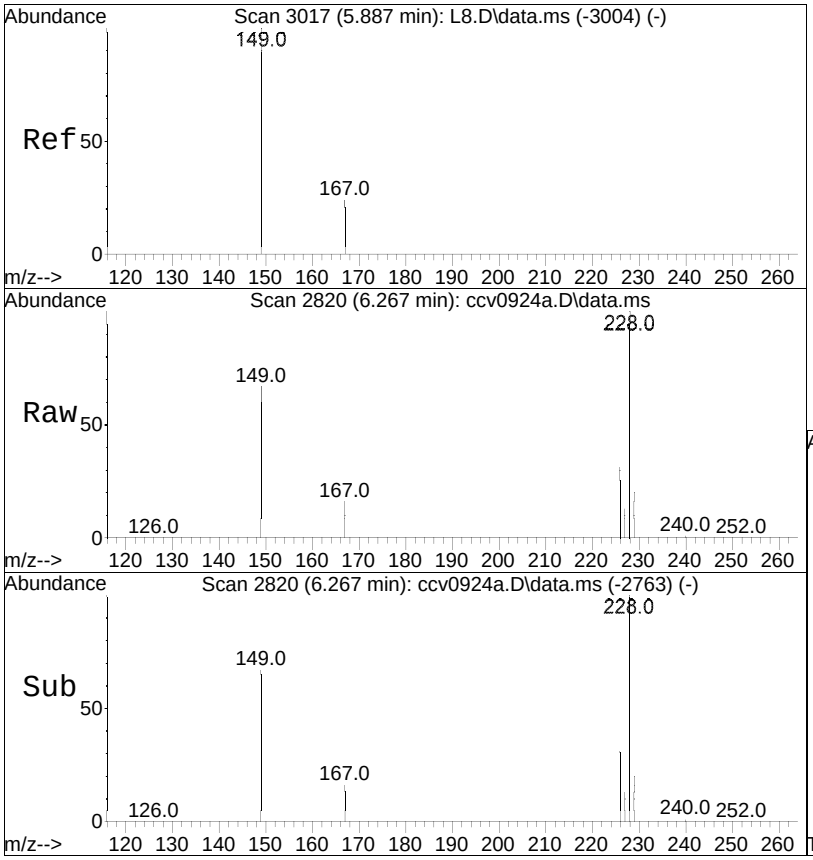


#34
Chrysene
Concen: 846.14 ng/ml
RT: 6.267 min Scan# 2820
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:228 Resp: 509215

Ion	Ratio	Lower	Upper
228	100		
226	31.4	23.9	35.9

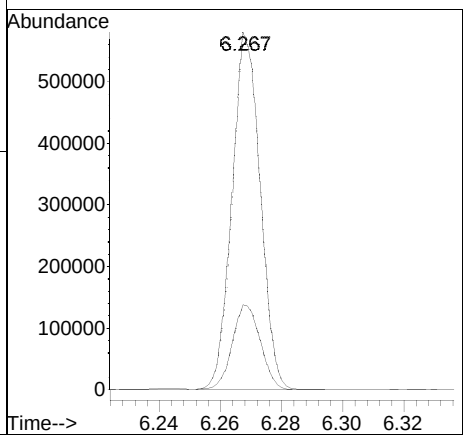


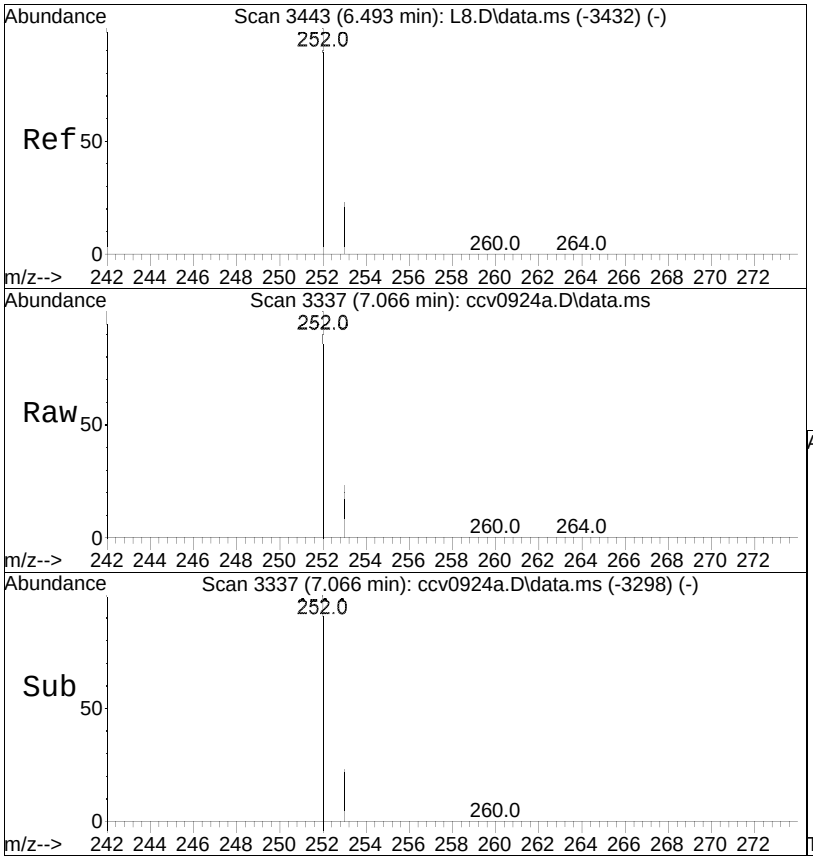


#35
Bis(2-ethylhexyl)phthalate
Concen: 841.82 ng/ml
RT: 6.267 min Scan# 2820
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:149 Resp: 366977

Ion	Ratio	Lower	Upper
149	100		
167	24.1	19.0	28.4

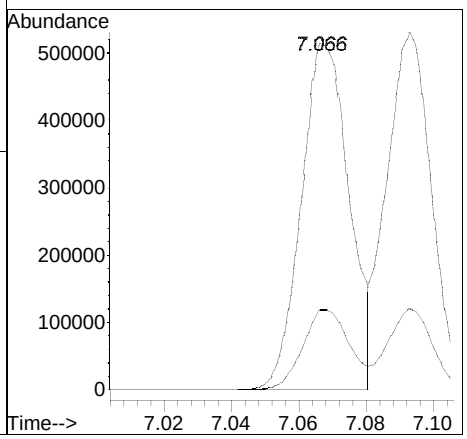


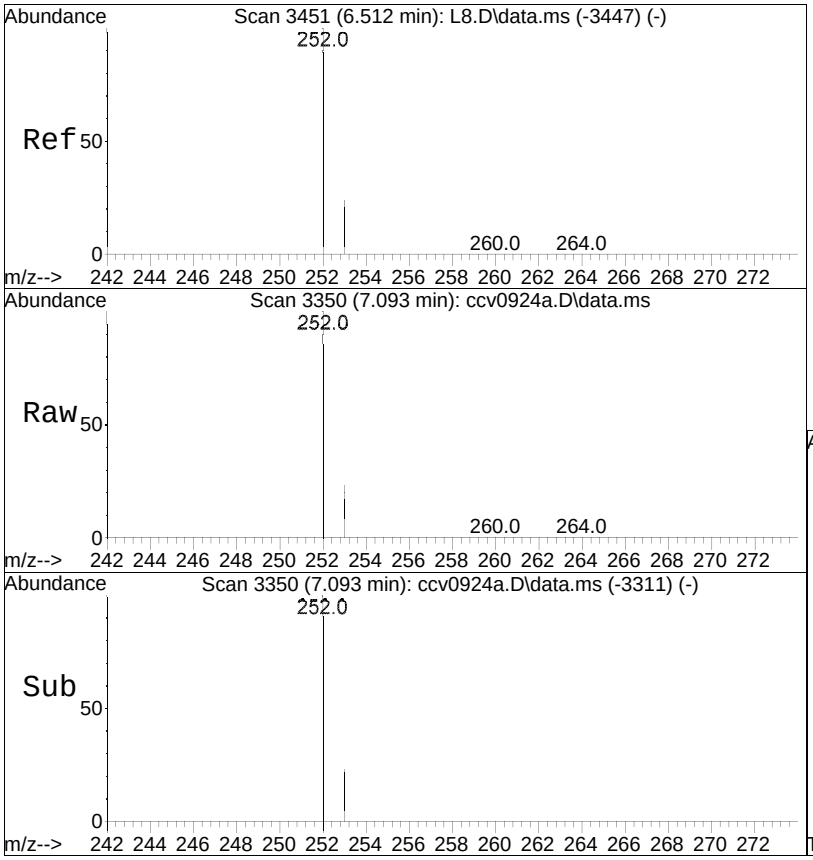


#37
Benzo[b]fluoranthene
Concen: 826.17 ng/ml
RT: 7.066 min Scan# 3337
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:252 Resp: 510196

Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.0	27.0

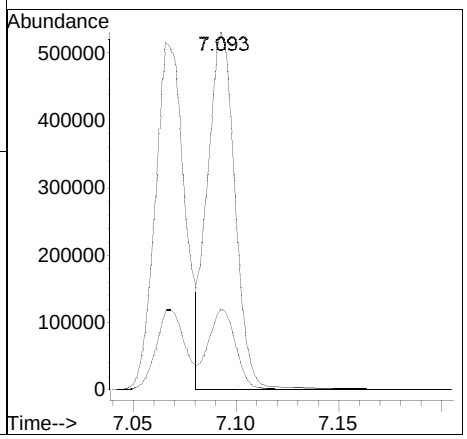


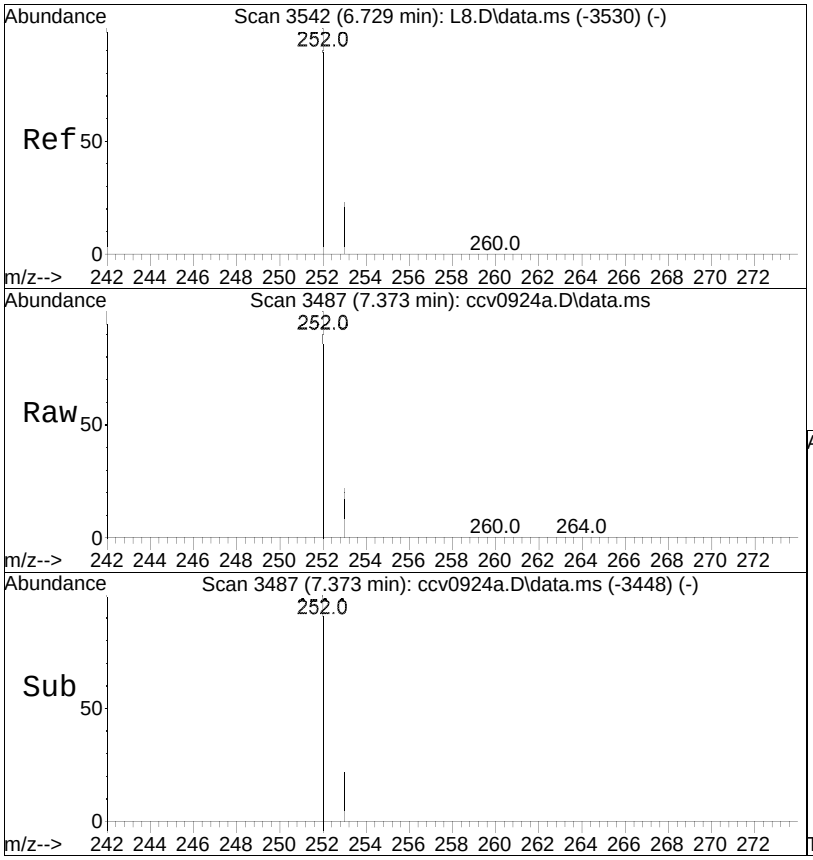


#38
Benzo[k]fluoranthene
Concen: 862.17 ng/ml
RT: 7.093 min Scan# 3350
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:252 Resp: 491879

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.3	27.5

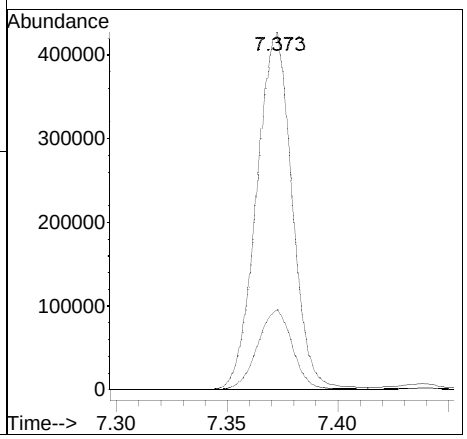


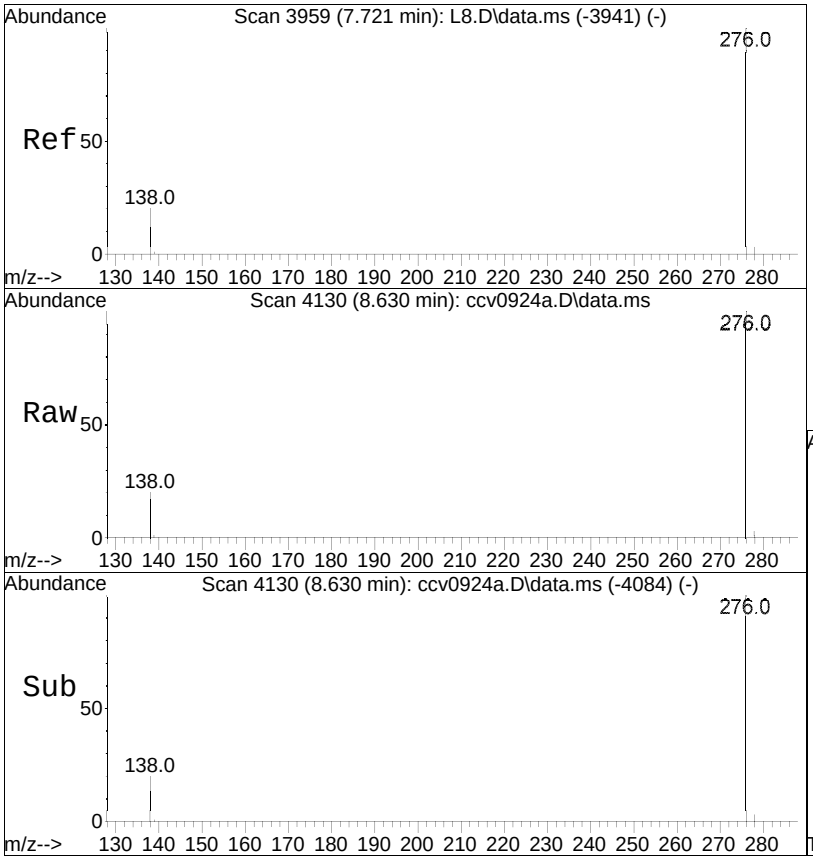


#39
Benzo[a]pyrene
Concen: 858.20 ng/ml
RT: 7.373 min Scan# 3487
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:252 Resp: 469387

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.9	26.9

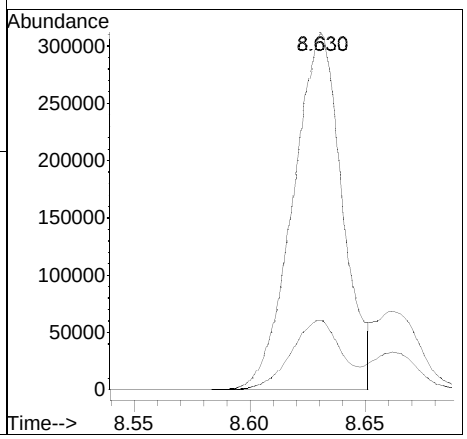


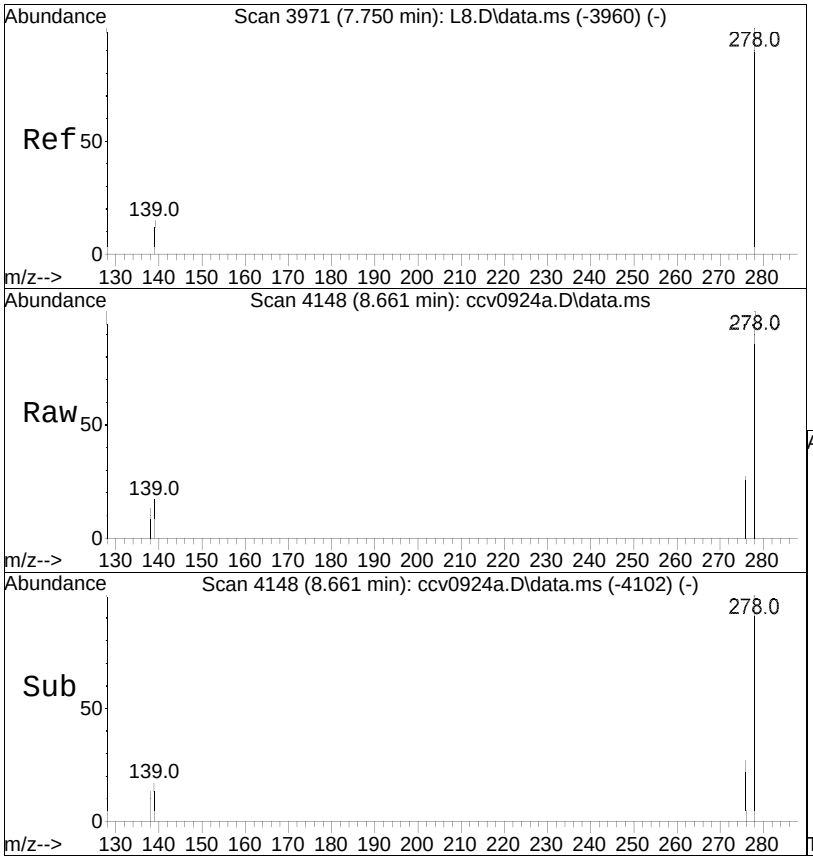


#40
Indeno[1,2,3-cd]pyrene
Concen: 827.33 ng/ml
RT: 8.630 min Scan# 4130
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:276 Resp: 457427

Ion	Ratio	Lower	Upper
276	100		
138	20.0	15.1	22.7

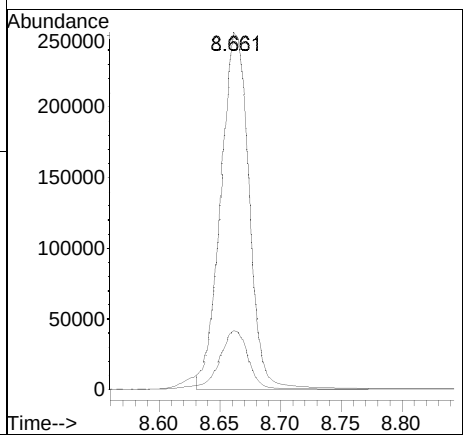


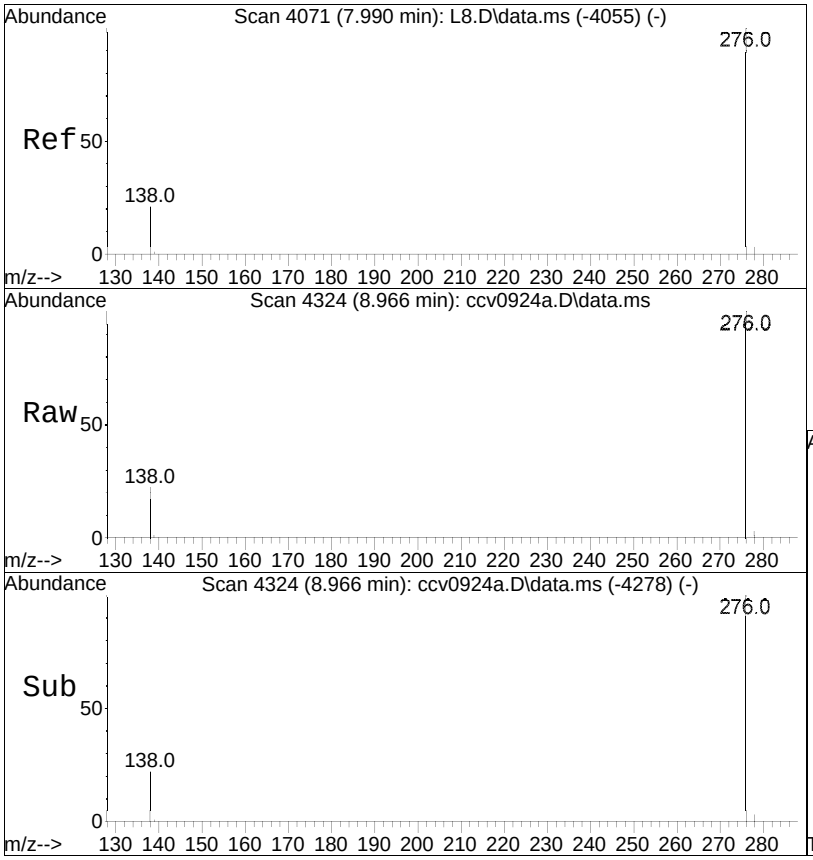


#41
Dibenzo[a,h]anthracene
Concen: 827.42 ng/ml M6
RT: 8.661 min Scan# 4148
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:278 Resp: 407516

Ion	Ratio	Lower	Upper
278	100		
139	17.0	13.3	19.9

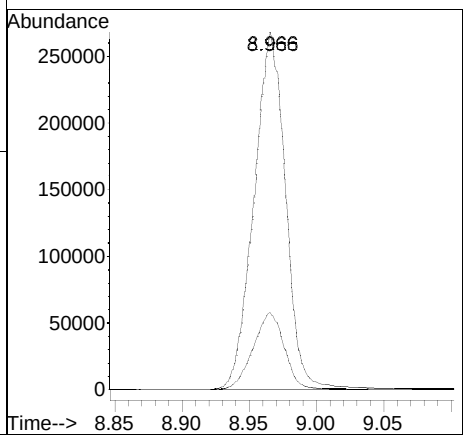




#42
Benzo[g,h,i]perylene
Concen: 792.14 ng/ml
RT: 8.966 min Scan# 4324
Delta R.T. 0.000 min
Lab File: ccv0924a.D
Acq: 24 Sep 2024 11:50 am

Tgt Ion:276 Resp: 430794

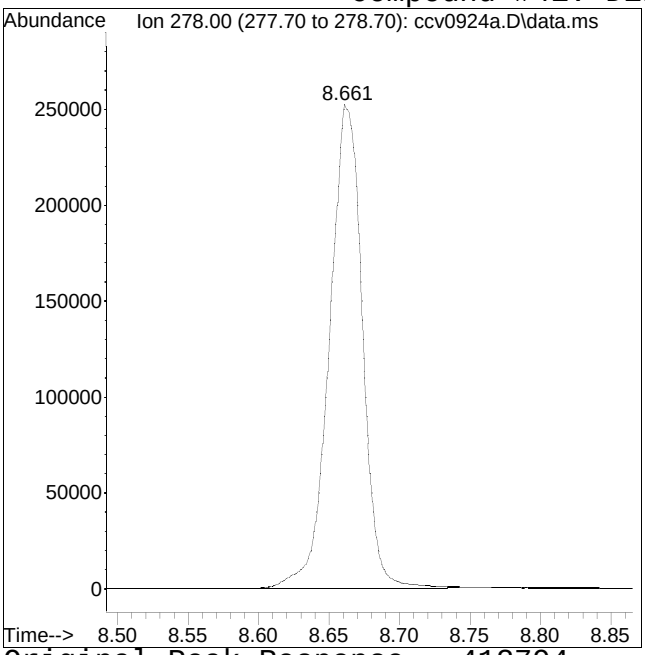
Ion	Ratio	Lower	Upper
276	100		
138	21.6	16.9	25.3



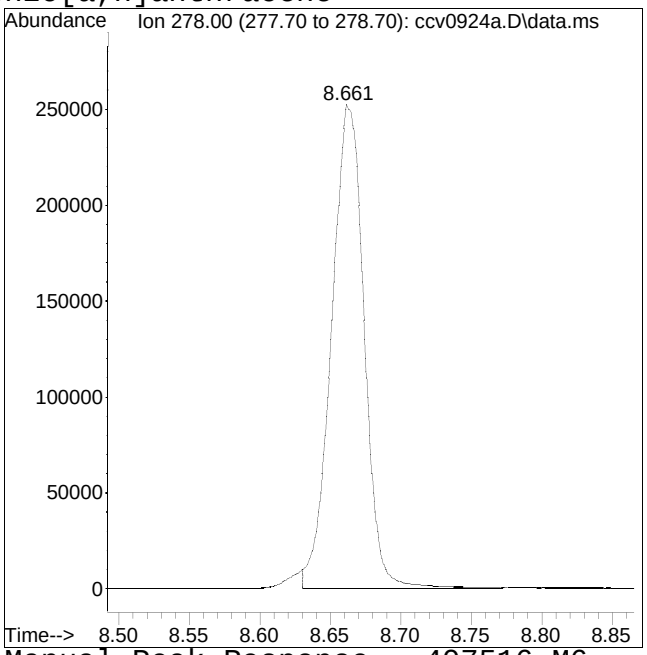
Manual Integration Report

Data Path : I:\8270SIM\sv119\240924aRVQMethod : SIM-RVT_240621_sv119.M
Data File : ccv0924a.D Operator : sv119:rp
Date Inj'd : 9/24/2024 11:50 am Instrument : SV119
Sample : WG1975503-3,32,,ICV 10884 Quant Date : 9/24/2024 12:09 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 412794



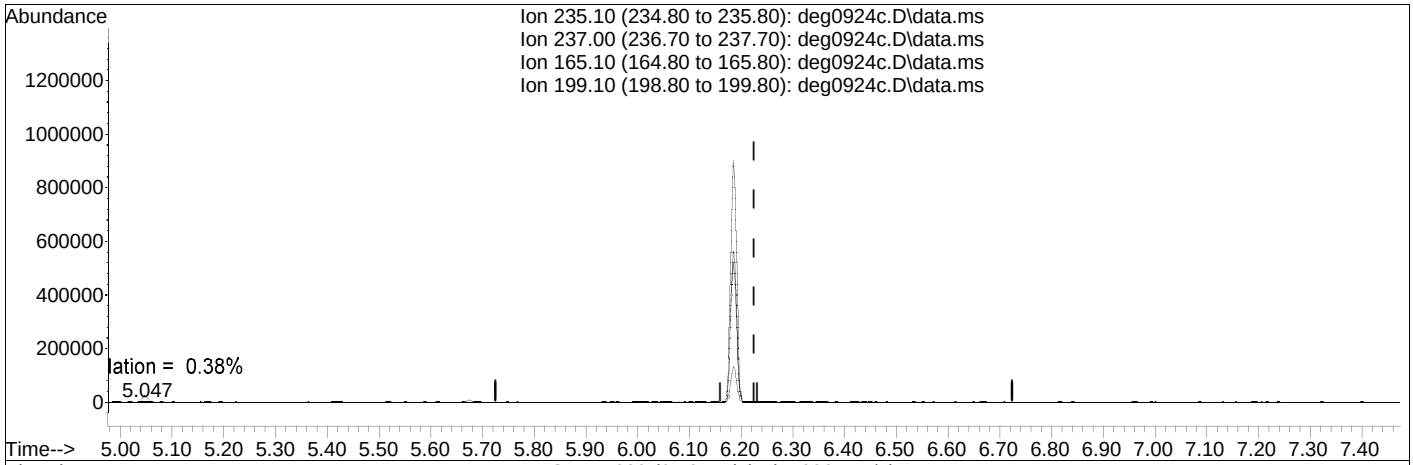
Manual Peak Response = 407516 M6

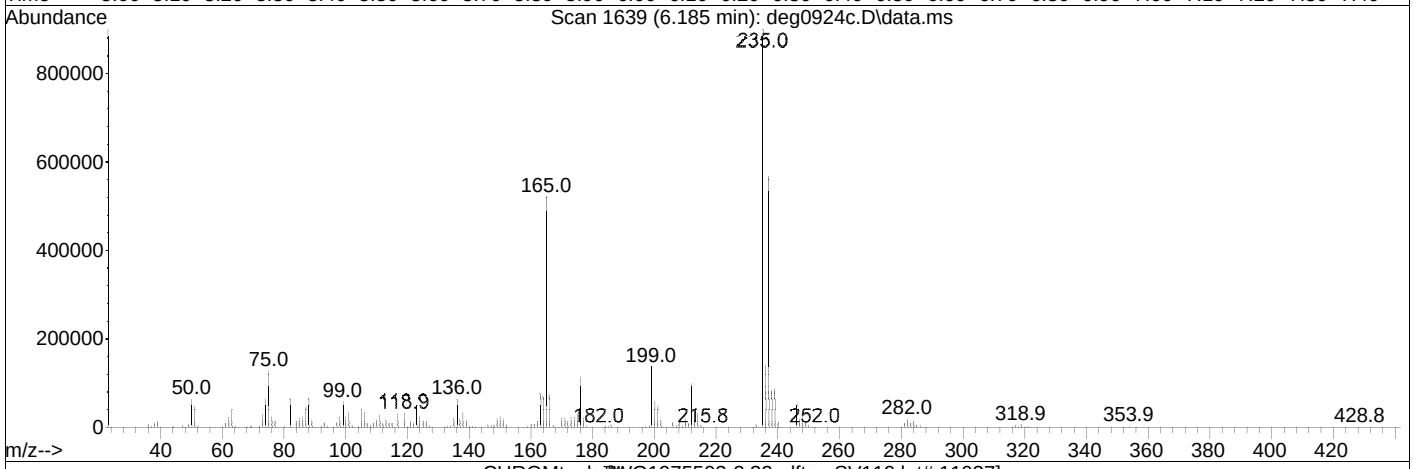
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : deg0924c.D
Acq On : 24 Sep 2024 11:34 am
Operator : sv119:rp
Sample : WG1975503-2,32,,dftpp SV119 lot# 11037
Misc : WG1975503,,ical21236
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 24 11:47:24 2024
Quant Method : I:\8270SIM\sv119\240924aRVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 14 14:45:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1975503-2,32,,dftpp SV119 lot# 11037]

(6) ddt (T)

6.185min (-0.040) 114.65

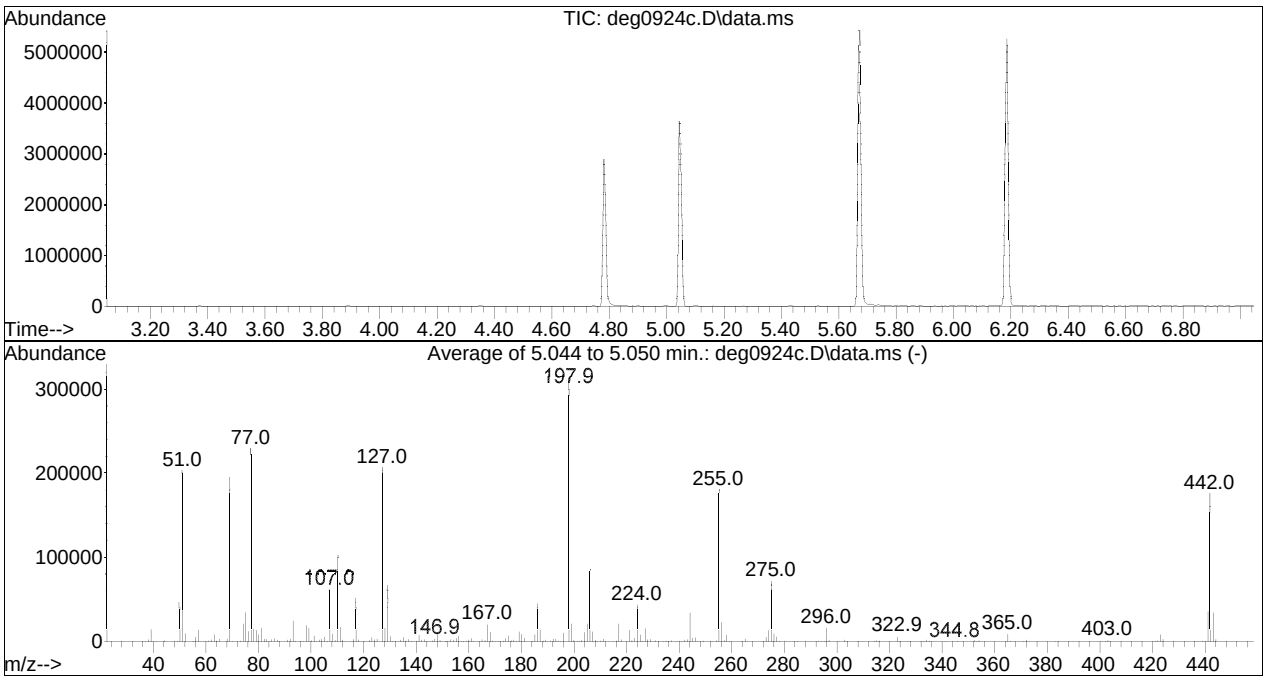
response 698880

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	62.13
165.10	53.30	56.45
199.10	17.10	14.90

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : deg0924c.D
Acq On : 24 Sep 2024 11:34 am
Operator : sv119:rp
Sample : WG1975503-1,32,,dftpp SV119 lot# 11037
Misc : WG1975503,,ical21236
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\240924aRVT\SIM-RVT_240621_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 24 12:09:01 2024



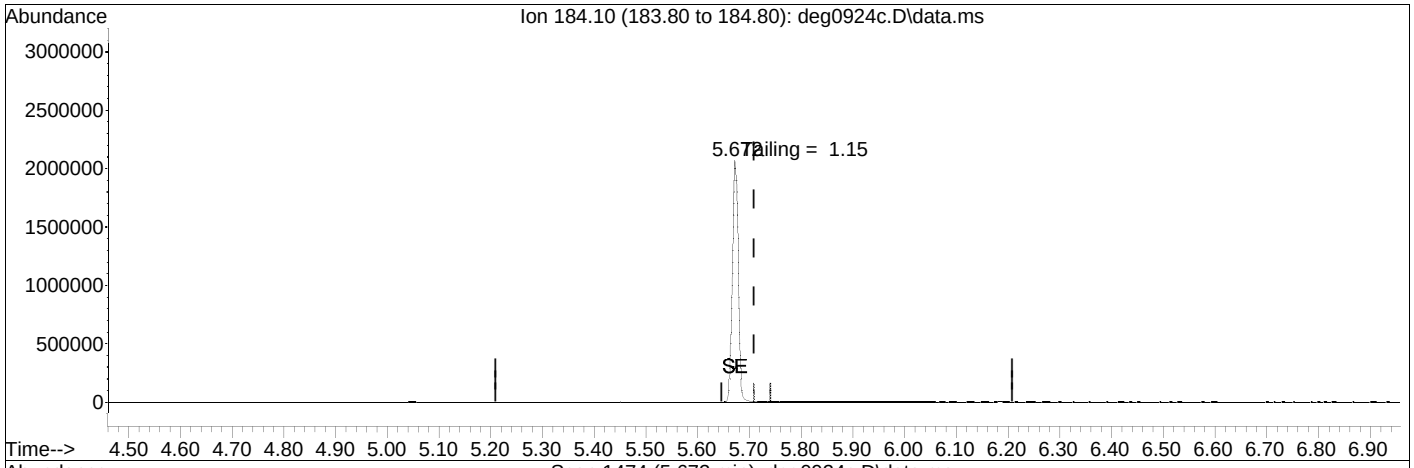
Spectrum Information: Average of 5.044 to 5.050 min.

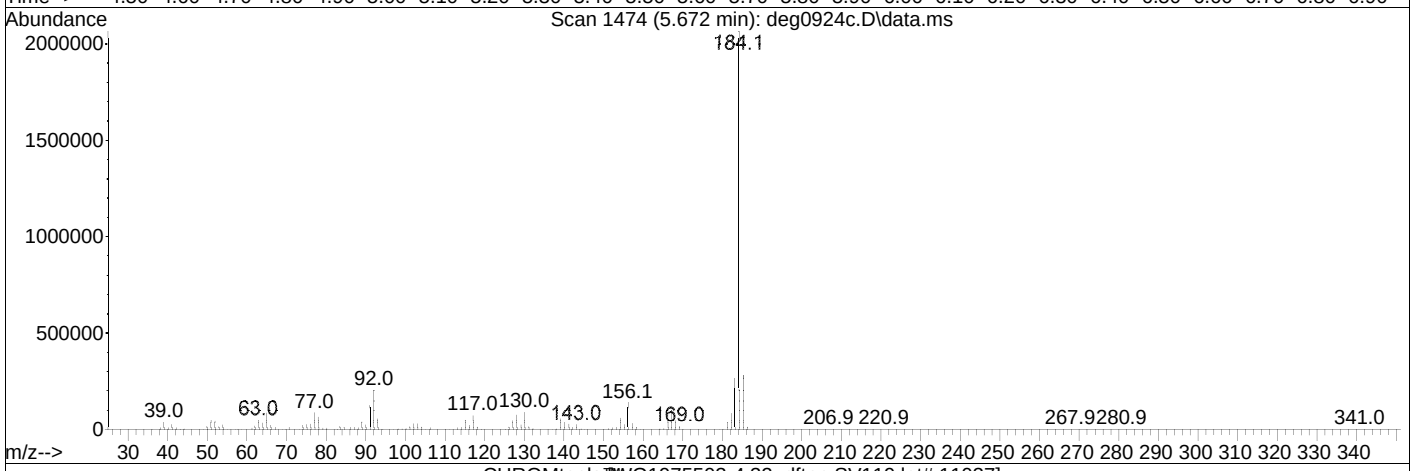
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	64.7	202969	PASS
68	69	0.00	2	2.0	3831	PASS
69	69	100	100	100.0	194923	PASS
70	69	0.00	2	0.4	755	PASS
127	198	10	80	65.8	206421	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	313621	PASS
199	198	5	9	6.8	21213	PASS
275	198	10	60	22.9	71680	PASS
365	198	1	100	2.9	9083	PASS
441	442	0.01	24	20.1	35320	PASS
442	198	50	100	56.0	175627	PASS
443	442	15	24	19.2	33691	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : deg0924c.D
Acq On : 24 Sep 2024 11:34 am
Operator : sv119:rp
Sample : WG1975503-4,32,,dftpp SV119 lot# 11037
Misc : WG1975503,,ical21236
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 24 11:47:24 2024
Quant Method : I:\8270SIM\sv119\240924aRVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 14 14:45:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1975503-4,32,,dftpp SV119 lot# 11037]

(3) benzidine (T)

5.672min (-0.037) 156.85

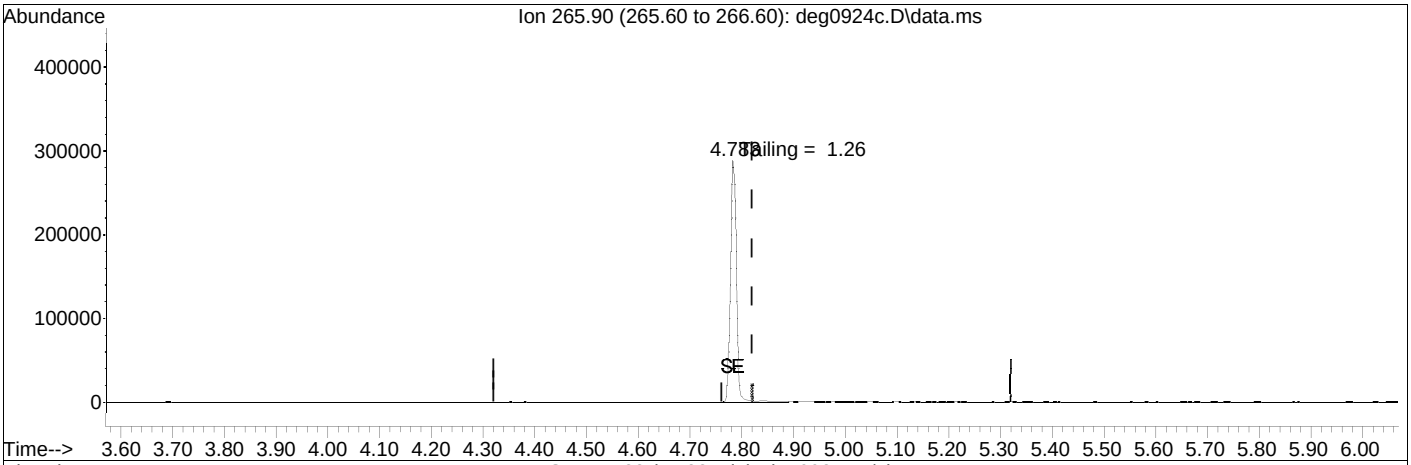
response 1596760

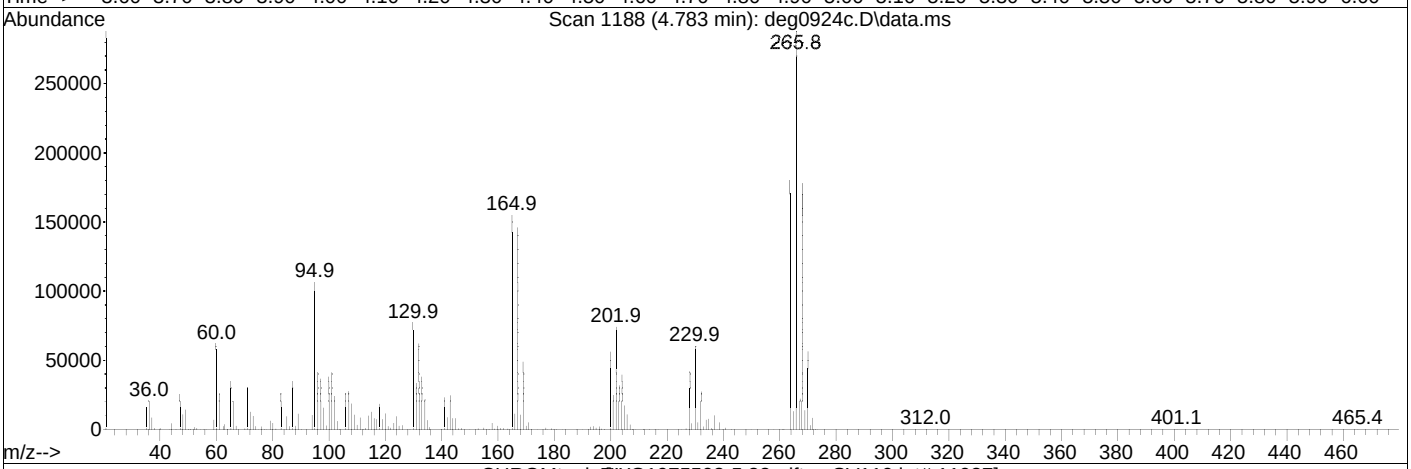
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240924aRVT\
Data File : deg0924c.D
Acq On : 24 Sep 2024 11:34 am
Operator : sv119:rp
Sample : WG1975503-5,32,,dftpp SV119 lot# 11037
Misc : WG1975503,,ical21236
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 24 11:47:24 2024
Quant Method : I:\8270SIM\sv119\240924aRVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 14 14:45:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1975503-5,32,,dftpp SV119 lot# 11037]

(1) pentachlorophenol (T)

4.783min (-0.037) 105.71

response 222032

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV120	**Calibration Date**	: 09/24/24 08:20		
Lab File ID	: CCV0924	**Init. Calib. Date(s)**	: 07/28/24	07/28/24	
Sample No	: WG1975659-3	**Init. Calib. Times**	: 16:50	19:15	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	59	0
2-Fluorophenol	1.188	1.214	.05	-2.2	20	61	0
Phenol-d6	1.445	1.471	.05	-1.8	20	61	0
Bis(2-chloroethyl)ether	1.315	1.203	.05	8.5	20	57	0
n-nitrosodi-n-propylamine	0.87	0.893	.05	-2.6	20	60	0
Hexachloroethane	0.561	0.513	.05	8.6	20	55	0
Nitrobenzene-d5	1.176	1.306	.05	-11.1	20	64	0
Naphthalene-d8	1	1	.05	0	20	59	0
Naphthalene	1.149	0.971	.05	15.5	20	54	0
Hexachlorobutadiene	0.197	0.193	.05	2	20	60	0
2-Methylnaphthalene	0.729	0.667	.05	8.5	20	55	0
1-Methylnaphthalene	0.68	0.611	.05	10.1	20	55	0
2-Fluorobiphenyl	0.862	0.776	.05	10	20	56	0
2-Chloronaphthalene	0.741	0.675	.05	8.9	20	55	0
2,6-Dinitrotoluene	1000	1044.048	.05	-4.4	20	66	0
Acenaphthylene	1.063	1.043	.05	1.9	20	55	0
Acenaphthene-d10	1	1	.05	0	20	61	0
Acenaphthene	1.442	1.208	.05	16.2	20	54	0
2,4-Dinitrotoluene	1000	1049.203	.05	-4.9	20	68	0
Fluorene	1.598	1.389	.05	13.1	20	55	0
2,4,6-Tribromophenol	0.22	0.239	.05	-8.6	20	61	0
Phenanthrene-d10	1	1	.05	0	20	62	0
4,6-Dinitro-o-cresol	1000	1221.136	.05	-22.1*	20	79	0
Hexachlorobenzene	0.28	0.242	.05	13.6	20	56	0
Pentachlorophenol	1000	1023.029	.05	-2.3	20	65	0
Phenanthrene	1.188	1.018	.05	14.3	20	55	0
Anthracene	1.146	1.045	.05	8.8	20	56	0
Fluoranthene	1.283	1.203	.05	6.2	20	58	0
Pyrene	1.337	1.28	.05	4.3	20	58	0
4-Terphenyl-d14	0.838	0.732	.05	12.6	20	55	0
Chrysene-d12	1	1	.05	0	20	66	0
Benzo[a]anthracene	1000	837.702	.05	16.2	20	56	0
3,3'-Dichlorobenzene	1000	940.509	.05	5.9	20	67	0
Chrysene	1.455	1.23	.05	15.5	20	57	0
Bis(2-ethylhexyl)phthalate	1000	871.59	.05	12.8	20	59	0
Perylene-d12	1	1	.05	0	20	66	0
Benzo[b]fluoranthene	1.35	1.242	.05	8	20	61	0
Benzo[k]fluoranthene	1.272	1.164	.05	8.5	20	55	0
Benzo[a]pyrene	1.08	1.089	.05	-0.8	20	60	0
Indeno[1,2,3-cd]pyrene	1.012	1.093	.05	-8	20	67	0
Dibenzo[a,h]anthracene	0.95	1.02	.05	-7.4	20	64	0
Benzo[g,h,i]perylene	1.034	1.023	.05	1.1	20	61	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 09/24/24 11:50		
Lab File ID	: CCV0924A	**Init. Calib. Date(s)**	: 06/21/24	06/21/24	
Sample No	: WG1975503-3	**Init. Calib. Times**	: 14:50	17:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	194	0
2-Fluorophenol	1.411	1.218	.05	13.7	20	167	0
Phenol-d6	1.78	1.708	.05	4	20	179	0
Bis(2-chloroethyl)ether	1.43	1.366	.05	4.5	20	186	0
n-nitrosodi-n-propylamine	1.088	1.055	.05	3	20	177	0
Hexachloroethane	0.664	0.574	.05	13.6	20	172	0
Nitrobenzene-d5	1.561	1.499	.05	4	20	178	0
Naphthalene-d8	1	1	.05	0	20	188	0
Naphthalene	1.104	1.01	.05	8.5	20	175	0
Hexachlorobutadiene	0.248	0.21	.05	15.3	20	165	0
2-Methylnaphthalene	0.83	0.755	.05	9	20	167	0
1-Methylnaphthalene	0.802	0.684	.05	14.7	20	166	0
2-Fluorobiphenyl	1.034	0.891	.05	13.8	20	170	0
2-Chloronaphthalene	0.894	0.802	.05	10.3	20	171	0
2,6-Dinitrotoluene	0.241	0.216	.05	10.4	20	157	0
Acenaphthylene	1.429	1.178	.05	17.6	20	156	0
Acenaphthene-d10	1	1	.05	0	20	187	0
Acenaphthene	1.396	1.27	.05	9	20	171	0
2,4-Dinitrotoluene	0.535	0.5	.05	6.5	20	157	0
Fluorene	1.84	1.58	.05	14.1	20	164	0
2,4,6-Tribromophenol	0.279	0.226	.05	19	20	136	0
Phenanthrene-d10	1	1	.05	0	20	164	0
4,6-Dinitro-o-cresol	1000	957.787	.05	4.2	20	158	0
Hexachlorobenzene	0.275	0.235	.05	14.5	20	147	0
Pentachlorophenol	1000	906.928	.05	9.3	20	142	0
Phenanthrene	1.163	1.056	.05	9.2	20	155	0
Anthracene	1.201	1.13	.05	5.9	20	154	0
Fluoranthene	1.597	1.338	.05	16.2	20	147	0
Pyrene	1.655	1.389	.05	16.1	20	149	0
4-Terphenyl-d14	1.106	0.775	.05	29.9*	20	124	0
Chrysene-d12	1	1	.05	0	20	167	0
Benzo[a]anthracene	1000	898.106	.05	10.2	20	141	0
3,3'-Dichlorobenzene	0.611	0.611	.05	0	20	155	0
Chrysene	1.489	1.26	.05	15.4	20	139	0
Bis(2-ethylhexyl)phthalate	1000	841.823	.05	15.8	20	139	0
Perylene-d12	1	1	.05	0	20	152	0
Benzo[b]fluoranthene	1.657	1.369	.05	17.4	20	129	0
Benzo[k]fluoranthene	1.531	1.32	.05	13.8	20	143	0
Benzo[a]pyrene	1.467	1.259	.05	14.2	20	133	0
Indeno[1,2,3-cd]pyrene	1.483	1.227	.05	17.3	20	126	0
Dibenzo[a,h]anthracene	1.321	1.093	.05	17.3	20	129	0
Benzo[g,h,i]perylene	1.459	1.156	.05	20.8*	20	126	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: SV119	**Calibration Date**	: 09/25/24 08:17		
Lab File ID	: CCV0925	**Init. Calib. Date(s)**	: 06/21/24	06/21/24	
Sample No	: WG1976035-3	**Init. Calib. Times**	: 14:50	17:17	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	103	0
2-Fluorophenol	1.411	1.169	.05	17.2	20	85	0
Phenol-d6	1.78	1.553	.05	12.8	20	86	0
Bis(2-chloroethyl)ether	1.43	1.198	.05	16.2	20	87	0
n-nitrosodi-n-propylamine	1.088	0.92	.05	15.4	20	82	0
Hexachloroethane	0.664	0.508	.05	23.5*	20	81	0
Nitrobenzene-d5	1.561	1.336	.05	14.4	20	84	0
Naphthalene-d8	1	1	.05	0	20	98	0
Naphthalene	1.104	0.964	.05	12.7	20	87	0
Hexachlorobutadiene	0.248	0.228	.05	8.1	20	94	0
2-Methylnaphthalene	0.83	0.753	.05	9.3	20	87	0
1-Methylnaphthalene	0.802	0.675	.05	15.8	20	86	0
2-Fluorobiphenyl	1.034	0.95	.05	8.1	20	95	0
2-Chloronaphthalene	0.894	0.827	.05	7.5	20	92	0
2,6-Dinitrotoluene	0.241	0.229	.05	5	20	87	0
Acenaphthylene	1.429	1.206	.05	15.6	20	84	0
Acenaphthene-d10	1	1	.05	0	20	103	0
Acenaphthene	1.396	1.2	.05	14	20	89	0
2,4-Dinitrotoluene	0.535	0.5	.05	6.5	20	86	0
Fluorene	1.84	1.549	.05	15.8	20	88	0
2,4,6-Tribromophenol	0.279	0.256	.05	8.2	20	85	0
Phenanthrene-d10	1	1	.05	0	20	95	0
4,6-Dinitro-o-cresol	1000	952.964	.05	4.7	20	91	0
Hexachlorobenzene	0.275	0.238	.05	13.5	20	86	0
Pentachlorophenol	1000	829.905	.05	17	20	75	0
Phenanthrene	1.163	0.996	.05	14.4	20	84	0
Anthracene	1.201	1.075	.05	10.5	20	84	0
Fluoranthene	1.597	1.358	.05	15	20	86	0
Pyrene	1.655	1.4	.05	15.4	20	87	0
4-Terphenyl-d14	1.106	0.868	.05	21.5*	20	80	0
Chrysene-d12	1	1	.05	0	20	107	0
Benzo[a]anthracene	1000	859.337	.05	14.1	20	86	0
3,3'-Dichlorobenzene	0.611	0.624	.05	-2.1	20	101	0
Chrysene	1.489	1.187	.05	20.3*	20	84	0
Bis(2-ethylhexyl)phthalate	1000	738.247	.05	26.2*	20	77	0
Perylene-d12	1	1	.05	0	20	105	0
Benzo[b]fluoranthene	1.657	1.301	.05	21.5*	20	84	0
Benzo[k]fluoranthene	1.531	1.231	.05	19.6	20	92	0
Benzo[a]pyrene	1.467	1.216	.05	17.1	20	88	0
Indeno[1,2,3-cd]pyrene	1.483	1.303	.05	12.1	20	92	0
Dibenzo[a,h]anthracene	1.321	1.097	.05	17	20	89	0
Benzo[g,h,i]perylene	1.459	1.166	.05	20.1*	20	87	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : ccv0925.D
Acq On : 25 Sep 2024 08:17 am
Operator : sv119:rp
Sample : WG1976035-3,32,,ICV 10884 (0921)
Misc : WG1976035,,ical21236
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 25 08:32:25 2024
Quant Method : I:\8270SIM\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:21 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
2	s	2-Fluorophenol	1.411	1.169	17.2	85	0.00
3	s	Phenol-d6	1.780	1.553	12.8	86	0.00
4	T	Bis(2-chloroethyl)ether	1.430	1.198	16.2	87	0.00
5	T	n-nitrosodi-n-propylamine	1.088	0.920	15.4	82	0.00
6	t	Hexachloroethane	0.664	0.508	23.5#	81	0.00
7	s	Nitrobenzene-d5	1.561	1.336	14.4	84	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	98	0.00
9	t	Naphthalene	1.104	0.964	12.7	87	0.00
10	t	Hexachlorobutadiene	0.248	0.228	8.1	94	0.00
11	t	2-Methylnaphthalene	0.830	0.753	9.3	87	0.00
12	t	1-Methylnaphthalene	0.802	0.675	15.8	86	0.00
13	s	2-Fluorobiphenyl	1.034	0.950	8.1	95	0.00
14	t	2-Chloronaphthalene	0.894	0.827	7.5	92	0.00
15	t	2,6-Dinitrotoluene	0.241	0.229	5.0	87	0.00
16	t	Acenaphthylene	1.429	1.206	15.6	84	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
18	t	Acenaphthene	1.396	1.200	14.0	89	0.00
19	t	2,4-Dinitrotoluene	0.535	0.500	6.5	86	0.00
20	t	Fluorene	1.840	1.549	15.8	88	0.00
21	s	2,4,6-Tribromophenol	0.279	0.256	8.2	85	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	952.964	4.7	91	0.00
24	t	Hexachlorobenzene	0.275	0.238	13.5	86	0.00
25	t	Pentachlorophenol	*1000.000	829.905	17.0	75	0.00
26	t	Phenanthrene	1.163	0.996	14.4	84	0.00
27	t	Anthracene	1.201	1.075	10.5	84	0.00
28	t	Fluoranthene	1.597	1.358	15.0	86	0.00
29	t	Pyrene	1.655	1.400	15.4	87	0.00
30	s	4-Terphenyl-d14	1.106	0.868	21.5#	80	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	107	0.00
32	t	Benzo[a]anthracene	*1000.000	859.337	14.1	86	0.00
33	t	3,3'-Dichlorobenzene	0.611	0.624	-2.1	101	0.00
34	t	Chrysene	1.489	1.187	20.3#	84	0.00
35	T	Bis(2-ethylhexyl)phthalate	*1000.000	738.247	26.2#	77	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : ccv0925.D
Acq On : 25 Sep 2024 08:17 am
Operator : sv119:rp
Sample : WG1976035-3,32,,ICV 10884 (0921)
Misc : WG1976035,,ical21236
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 25 08:32:25 2024
Quant Method : I:\8270SIM\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:21 2024
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	105	0.00
37	t	Benzo[b]fluoranthene	1.657	1.301	21.5#	84	0.00
38	t	Benzo[k]fluoranthene	1.531	1.231	19.6	92	0.00
39	t	Benzo[a]pyrene	1.467	1.216	17.1	88	0.00
40	t	Indeno[1,2,3-cd]pyrene	1.483	1.303	12.1	92	0.00
41	t	Dibenzo[a,h]anthracene	1.321	1.097	17.0	89	0.00
42	t	Benzo[g,h,i]perylene	1.459	1.166	20.1#	87	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : ccv0925.D
Acq On : 25 Sep 2024 08:17 am
Operator : sv119:rp
Sample : WG1976035-3,32,,ICV 10884 (0921)
Misc : WG1976035,,ical21236
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 25 08:32:25 2024
Quant Method : I:\8270SIM\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:21 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.228	152	191752	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.882	136	679198	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.844	164	435185	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.676	188	971629	4000.000	ng/ml	0.00
31) Chrysene-d12	6.249	240	1032016	4000.000	ng/ml	0.00
36) Perylene-d12	7.432	264	1026679	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.656	112	56022	828.222	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 41.41%			
3) Phenol-d6	2.046	99	74445	872.614	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 43.63%			
7) Nitrobenzene-d5	2.507	82	64057	855.990	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 85.60%			
13) 2-Fluorobiphenyl	3.467	172	161291	918.566	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 91.86%			
21) 2,4,6-Tribromophenol	4.284	330	27803	915.011	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.75%			
30) 4-Terphenyl-d14	5.598	244	210936	785.312	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 39.27%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.096	93	57447	838.142	ng/ml	81
5) n-nitrosodi-n-propylamine	2.427	70	44098	845.143	ng/ml	99
6) Hexachloroethane	2.482	117	24343	765.175	ng/ml	89
9) Naphthalene	2.892	128	163754	873.281	ng/ml	100
10) Hexachlorobutadiene	2.962	225	38751	920.660	ng/ml	100
11) 2-Methylnaphthalene	3.264	142	127852	907.244	ng/ml	99
12) 1-Methylnaphthalene	3.319	142	114535	840.823	ng/ml	100
14) 2-Chloronaphthalene	3.533	162	140453	925.072	ng/ml	91
15) 2,6-Dinitrotoluene	3.724	165	38925	952.087	ng/ml#	87
16) Acenaphthylene	3.764	152	204795	844.272	ng/ml	100
18) Acenaphthene	3.861	153	130571	859.557	ng/ml	100
19) 2,4-Dinitrotoluene	3.951	165	54433	935.710	ng/ml#	86
20) Fluorene	4.149	166	168532	841.749	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.181	198	38056	952.964	ng/ml#	85
24) Hexachlorobenzene	4.465	284	57813	866.567	ng/ml	93
25) Pentachlorophenol	4.577	266	34216	829.905	ng/ml	98
26) Phenanthrene	4.688	178	242055	856.928	ng/ml	99
27) Anthracene	4.717	178	261169	894.886	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : ccv0925.D
Acq On : 25 Sep 2024 08:17 am
Operator : sv119:rp
Sample : WG1976035-3,32,,ICV 10884 (0921)
Misc : WG1976035,,ical21236
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 25 08:32:25 2024
Quant Method : I:\8270SIM\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:21 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.371	202	329775	850.243	ng/ml	96
29) Pyrene	5.503	202	340028	846.010	ng/ml	99
32) Benzo[a]anthracene	6.239	228	335998	859.337	ng/ml	100
33) 3,3'-Dichlorobenzene	6.228	252	161089	1021.976	ng/ml#	97
34) Chrysene	6.264	228	306239	797.297	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.266	149	204937	738.247	ng/ml	98
37) Benzo[b]fluoranthene	7.062	252	333957	785.361	ng/ml	100
38) Benzo[k]fluoranthene	7.086	252	316007	804.409	ng/ml	99
39) Benzo[a]pyrene	7.364	252	312084	828.662	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.618	276	334560	878.772	ng/ml	93
41) Dibenzo[a,h]anthracene	8.649	278	281655M6	830.508	ng/ml	
42) Benzo[g,h,i]perylene	8.951	276	299243	799.101	ng/ml	93

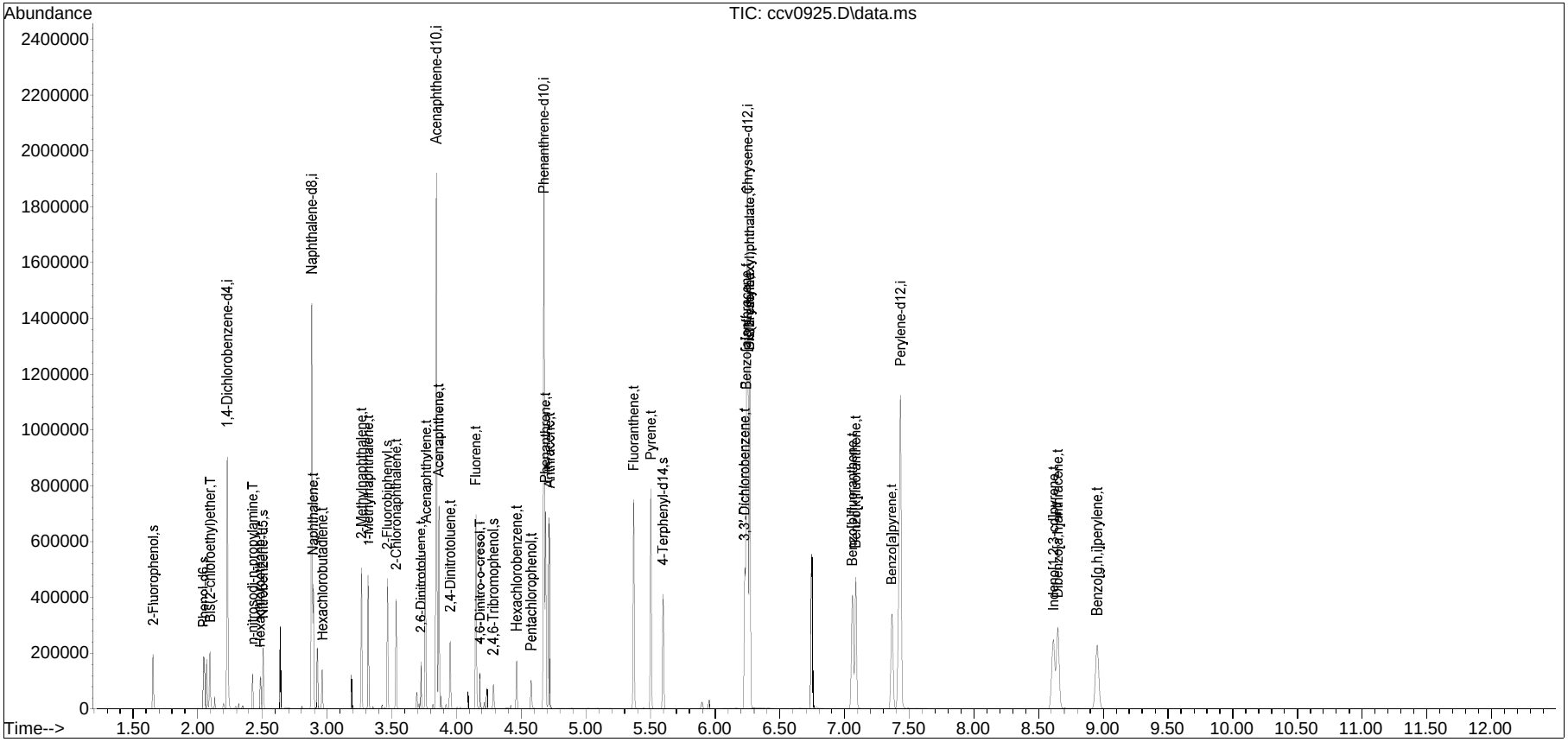
(#) = qualifier out of range (m) = manual integration (+) = signals summed

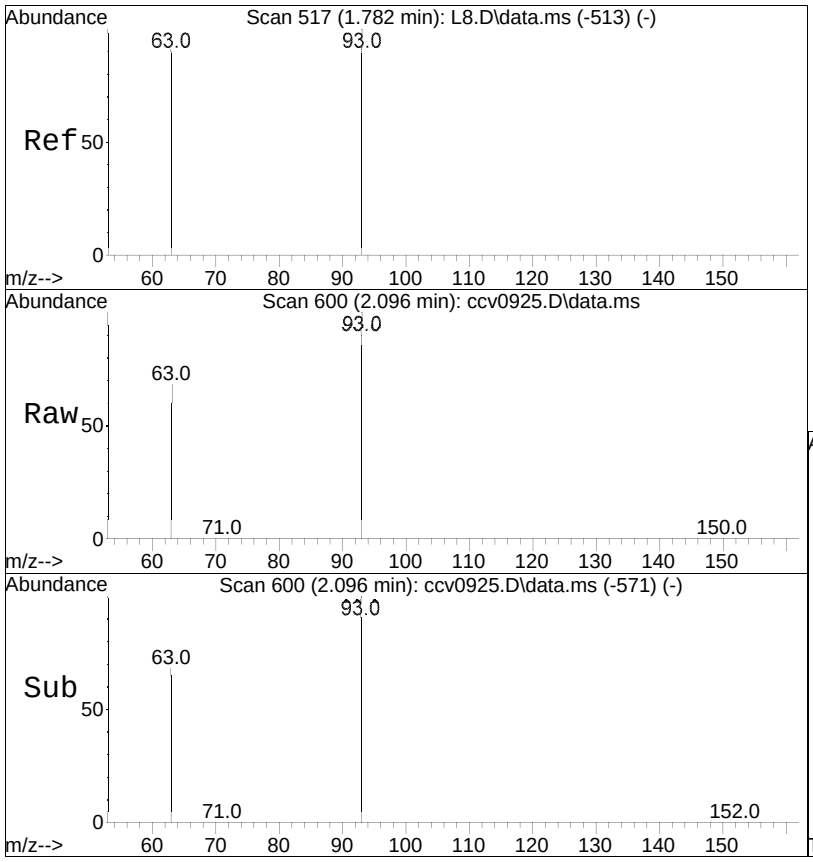
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : ccv0925.D
Acq On : 25 Sep 2024 08:17 am
Operator : sv119:rp
Sample : WG1976035-3,32,,ICV 10884 (0921)
Misc : WG1976035,,ical21236
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Sep 25 08:32:25 2024
Quant Method : I:\8270SIM\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:21 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

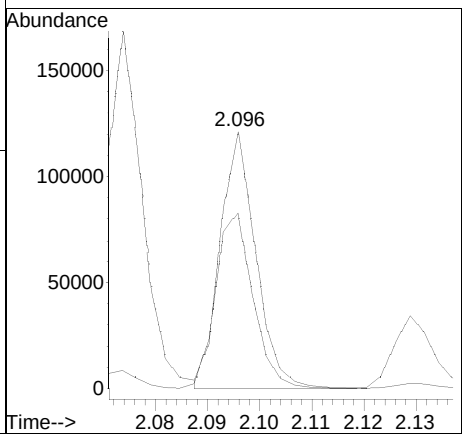


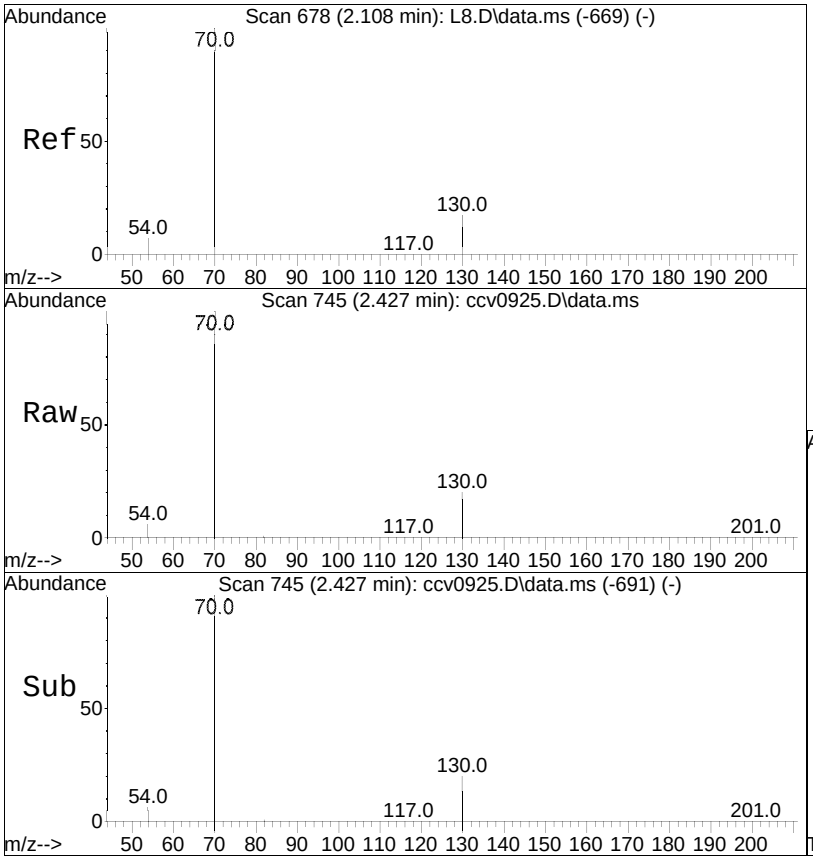


#4
Bis(2-chloroethyl)ether
Concen: 838.14 ng/ml
RT: 2.096 min Scan# 600
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion: 93 Resp: 57447

Ion	Ratio	Lower	Upper
93	100		
63	71.9	71.7	107.5

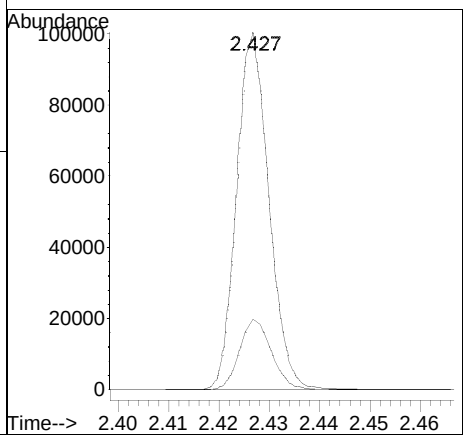


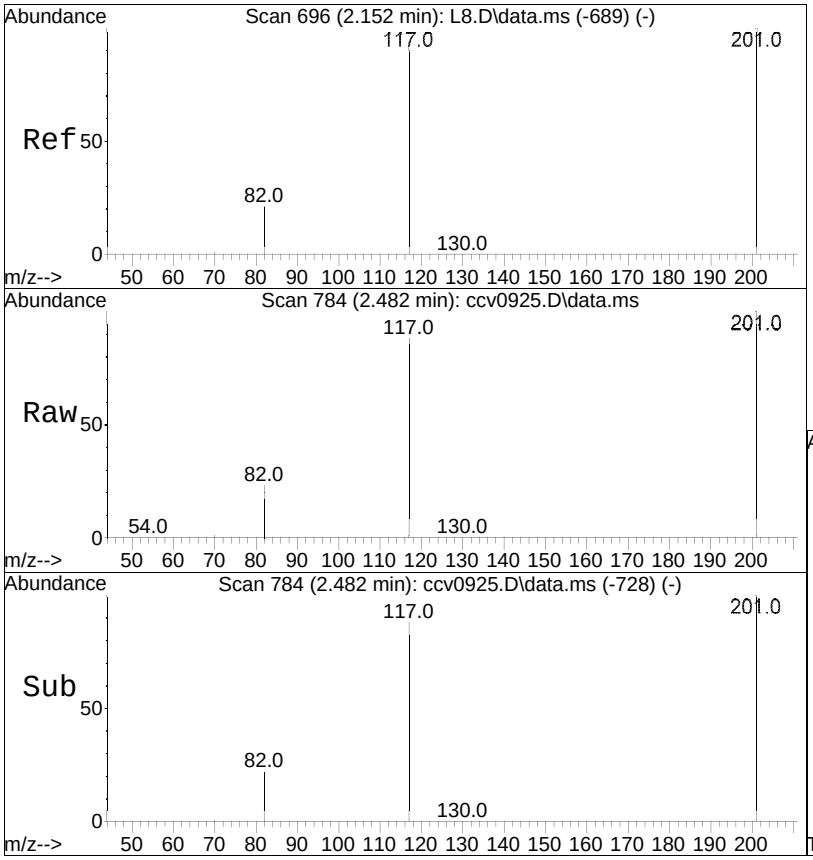


#5
n-nitrosodi-n-propylamine
Concen: 845.14 ng/ml
RT: 2.427 min Scan# 745
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion: 70 Resp: 44098

Ion	Ratio	Lower	Upper
70	100		
130	19.5	15.1	22.7

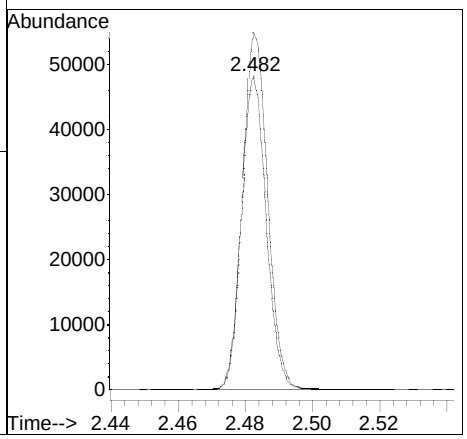


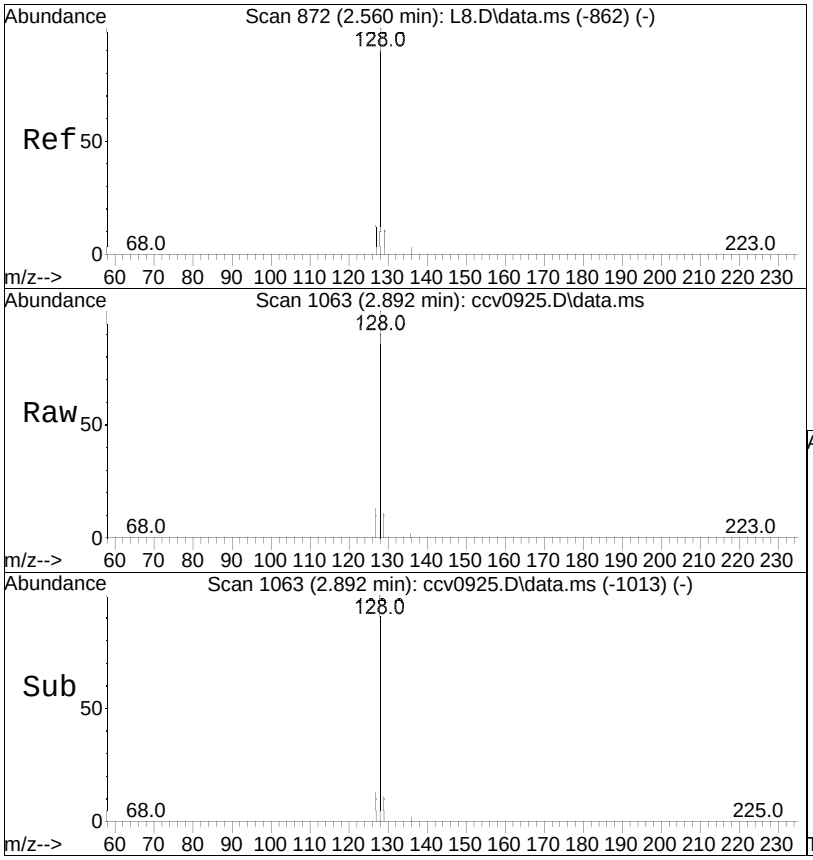


#6
Hexachloroethane
Concen: 765.18 ng/ml
RT: 2.482 min Scan# 784
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:117 Resp: 24343

Ion	Ratio	Lower	Upper
117	100		
201	114.9	83.0	124.6

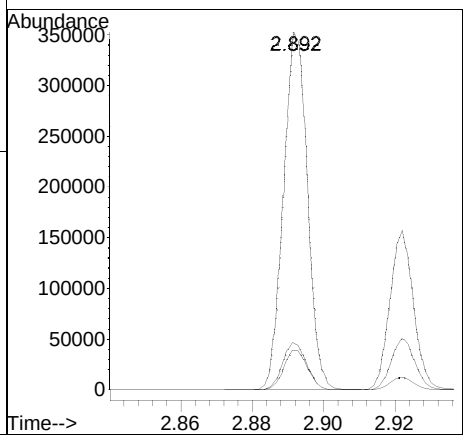


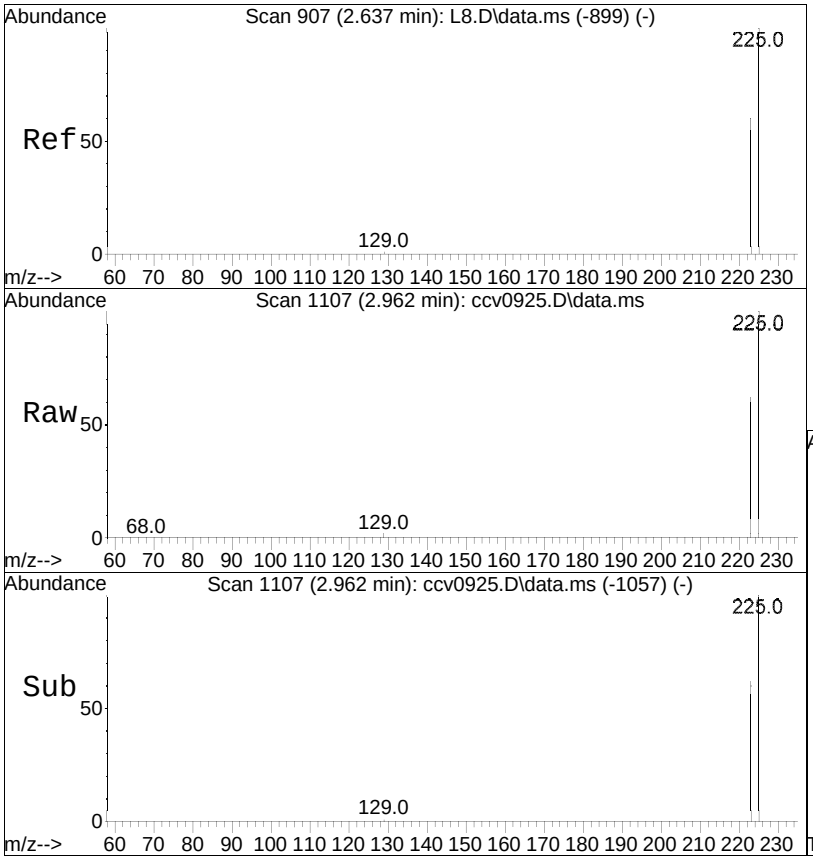


#9
Naphthalene
Concen: 873.28 ng/ml
RT: 2.892 min Scan# 1063
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:128 Resp: 163754

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	13.2	10.6	15.8

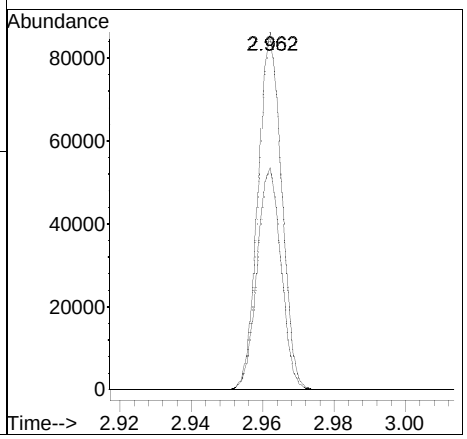


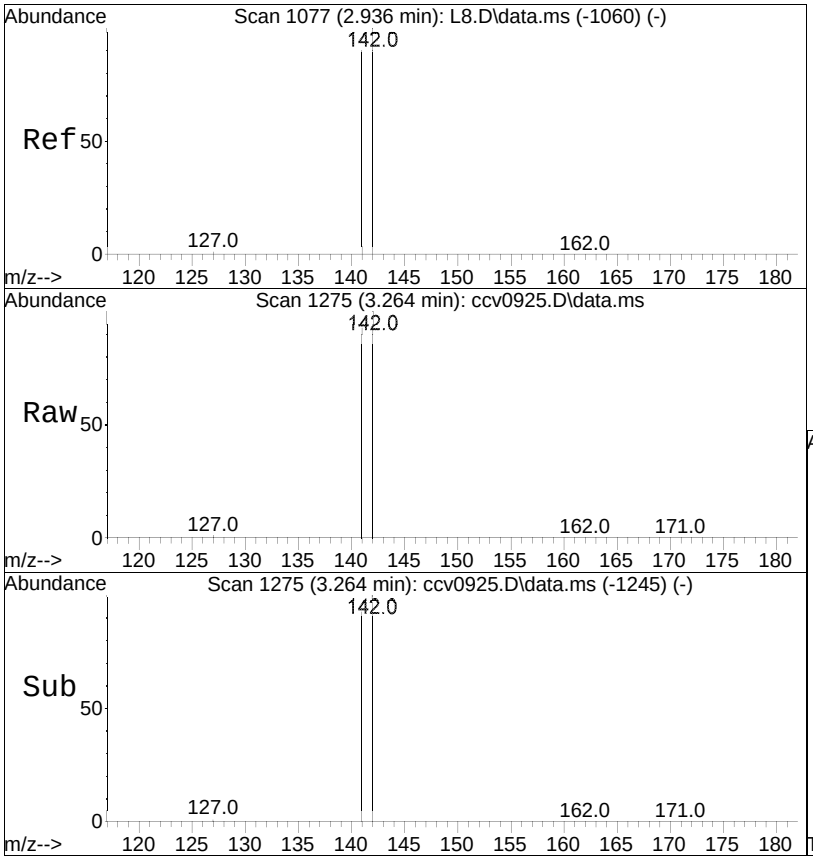


#10
Hexachlorobutadiene
Concen: 920.66 ng/ml
RT: 2.962 min Scan# 1107
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:225 Resp: 38751

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.2

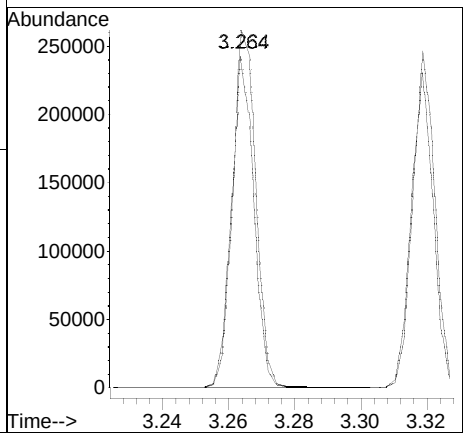


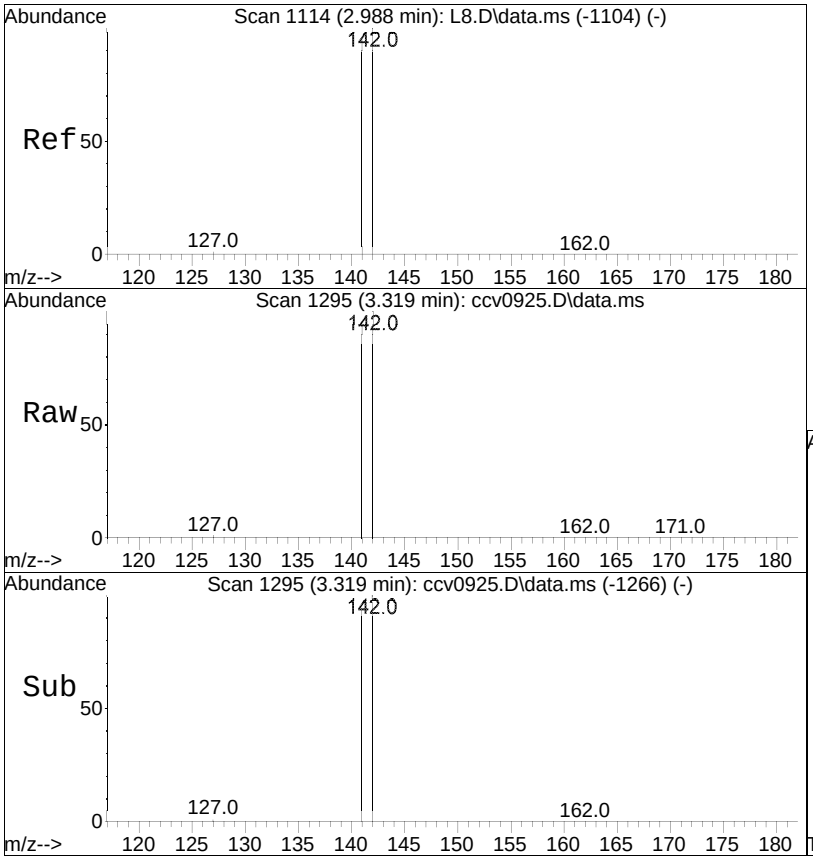


#11
2-Methylnaphthalene
Concen: 907.24 ng/ml
RT: 3.264 min Scan# 1275
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:142 Resp: 127852

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.3	108.5

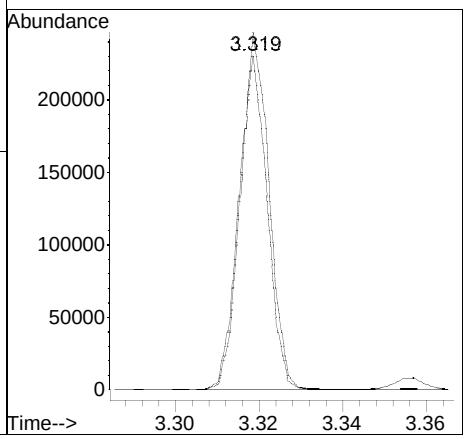


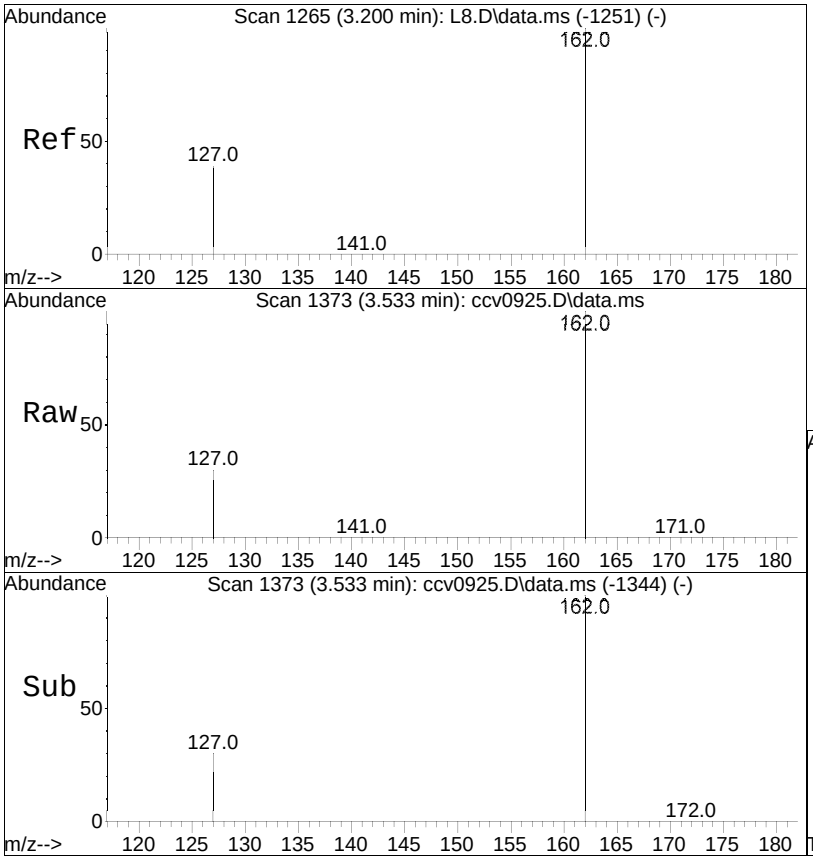


#12
1-Methylnaphthalene
Concen: 840.82 ng/ml
RT: 3.319 min Scan# 1295
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:142 Resp: 114535

Ion	Ratio	Lower	Upper
142	100		
141	93.4	74.9	112.3

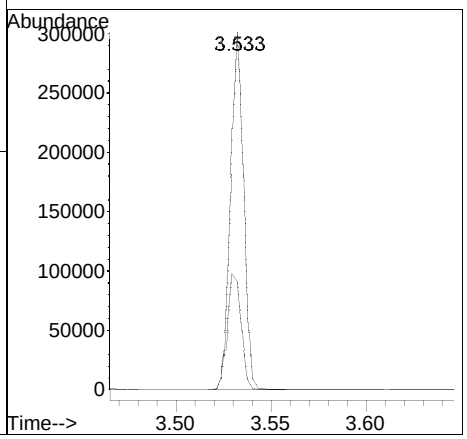


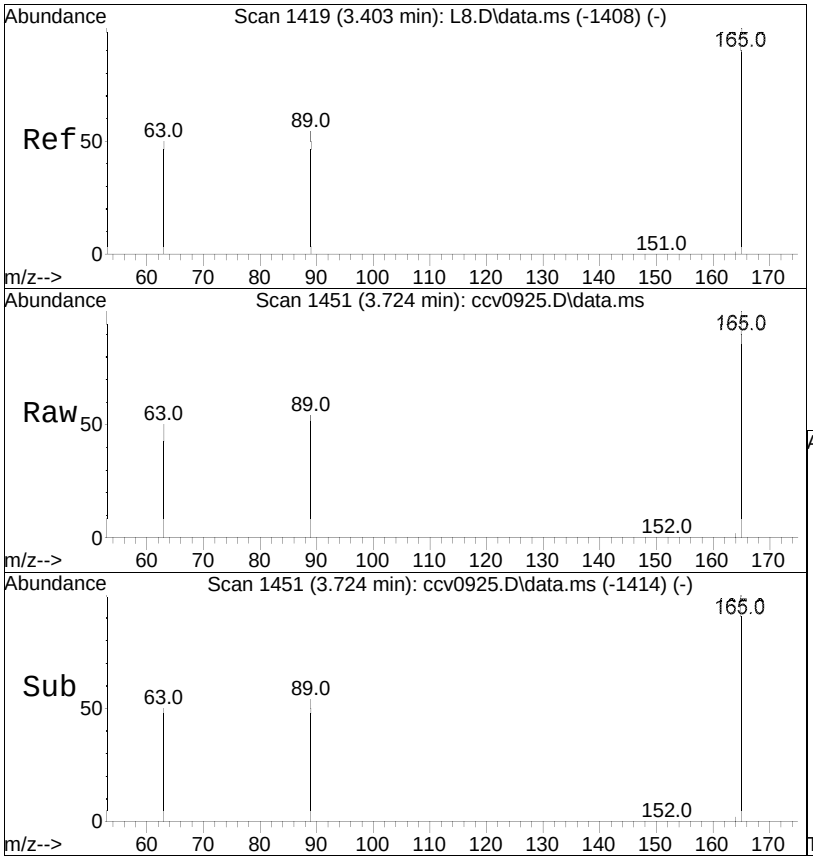


#14
2-Chloronaphthalene
Concen: 925.07 ng/ml
RT: 3.533 min Scan# 1373
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:162 Resp: 140453

Ion	Ratio	Lower	Upper
162	100		
127	34.5	32.0	48.0

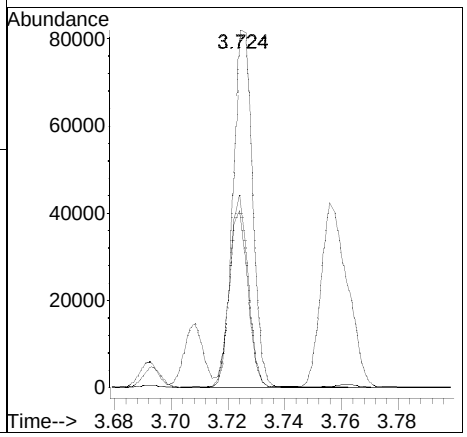


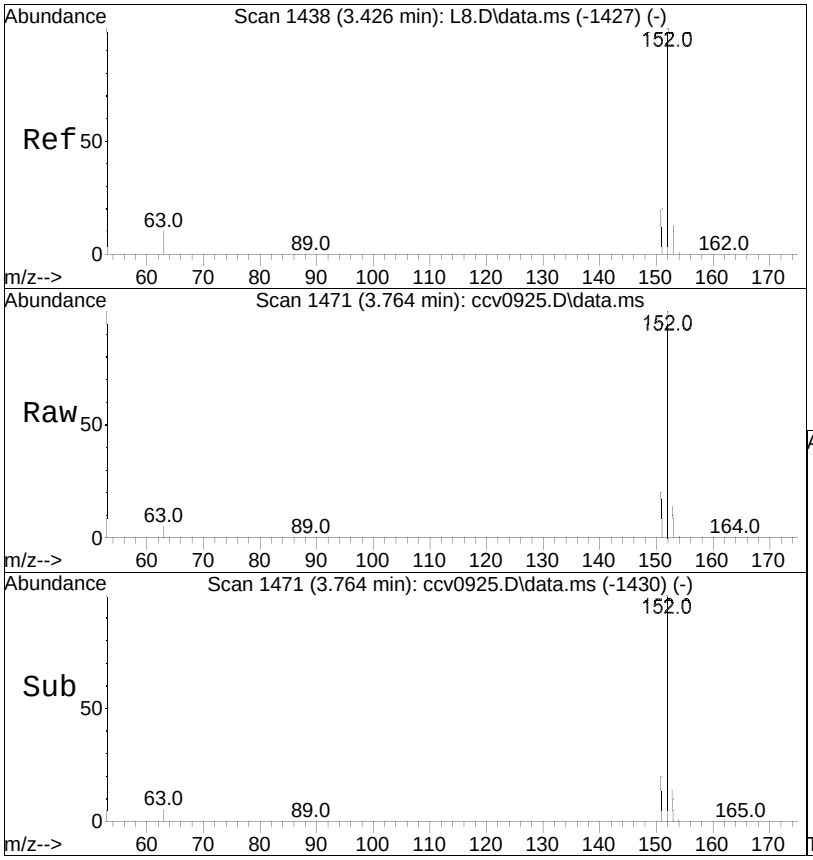


#15
2,6-Dinitrotoluene
Concen: 952.09 ng/ml
RT: 3.724 min Scan# 1451
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:165 Resp: 38925

Ion	Ratio	Lower	Upper
165	100		
89	51.8	45.7	68.5
63	48.3	49.8	74.6#

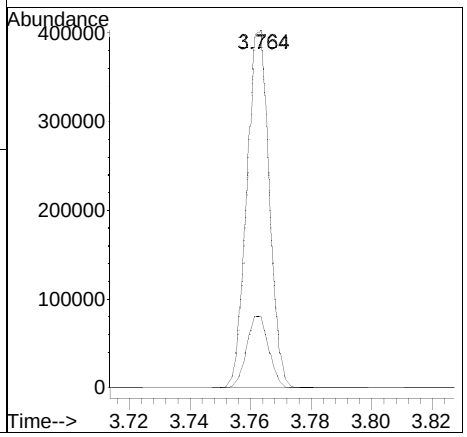


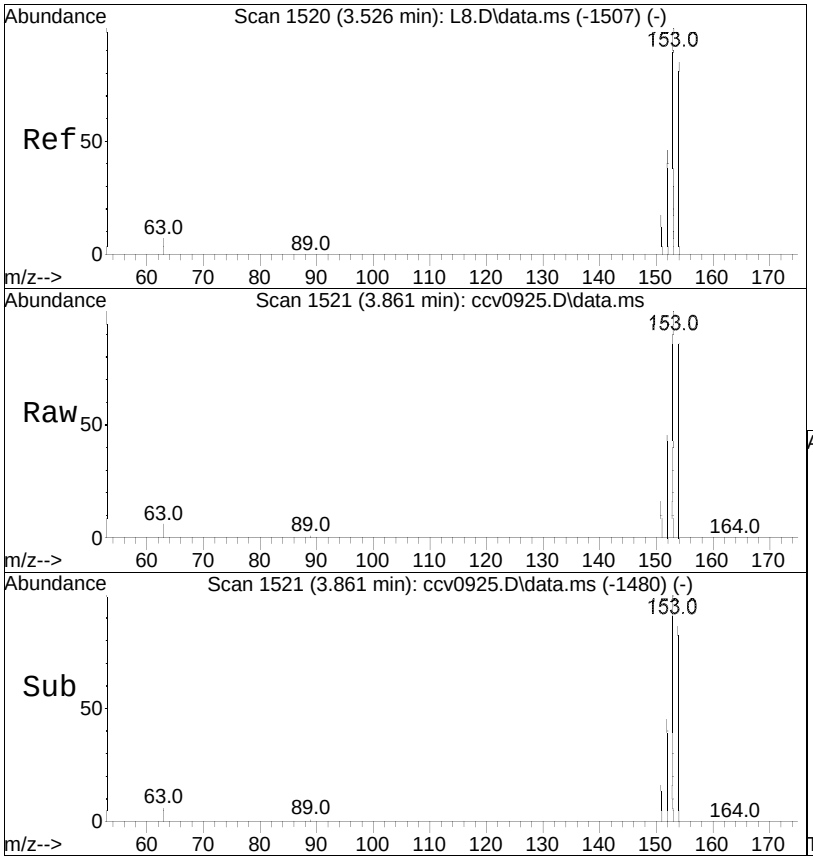


#16
Acenaphthylene
Concen: 844.27 ng/ml
RT: 3.764 min Scan# 1471
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:152 Resp: 204795

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0

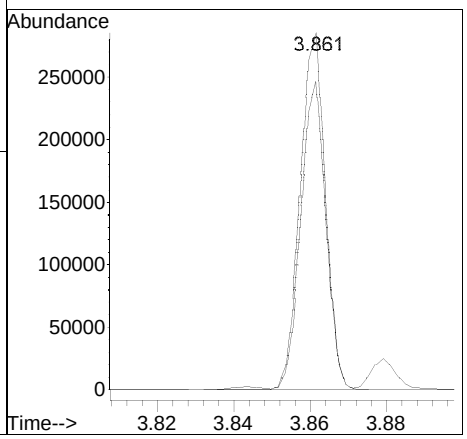


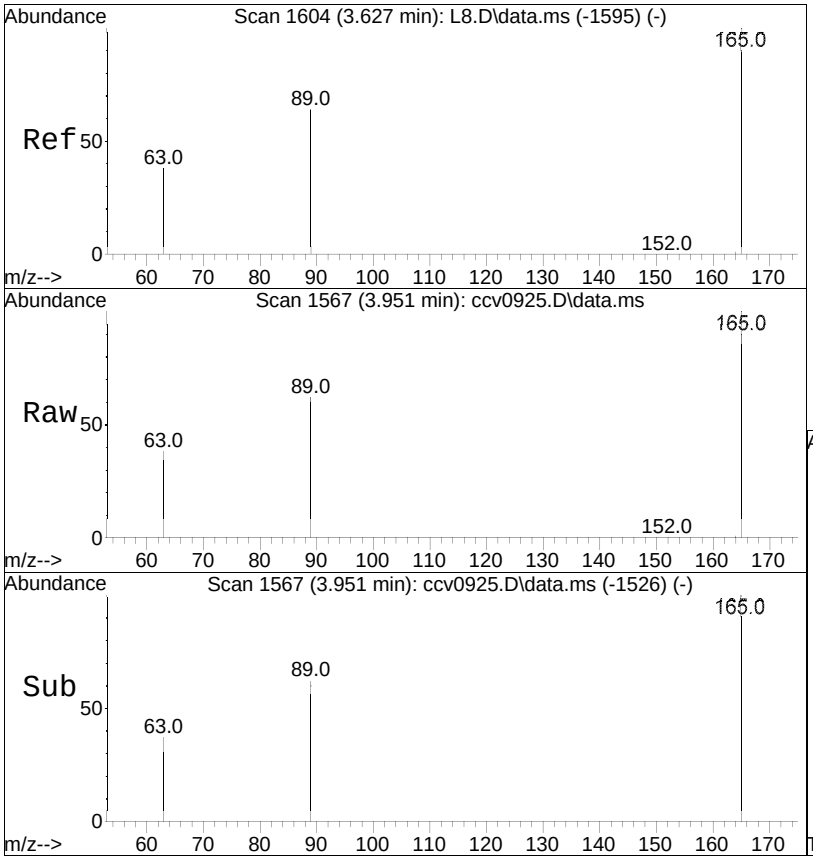


#18
Acenaphthene
Concen: 859.56 ng/ml
RT: 3.861 min Scan# 1521
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:153 Resp: 130571

Ion	Ratio	Lower	Upper
153	100		
154	85.3	68.1	102.1

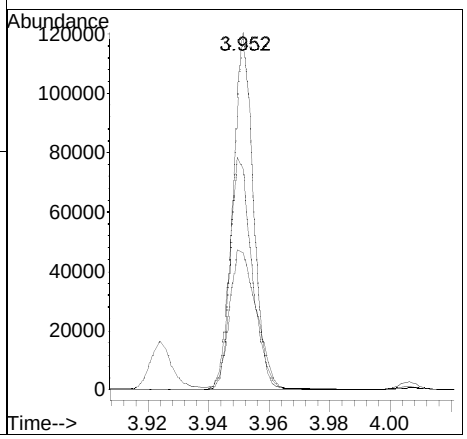


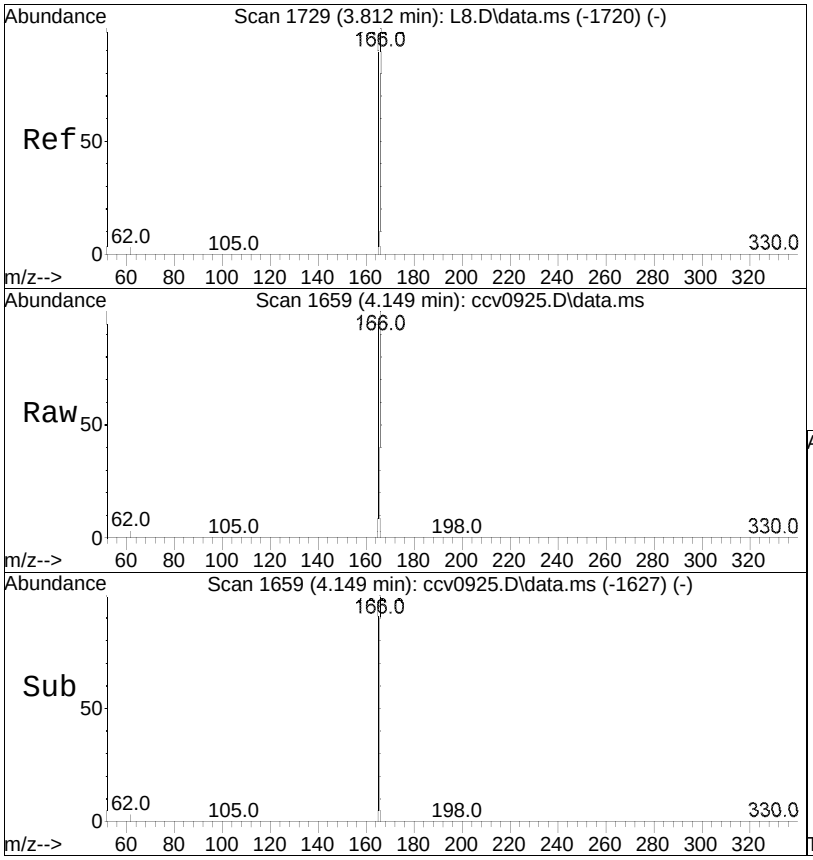


#19
2,4-Dinitrotoluene
Concen: 935.71 ng/ml
RT: 3.951 min Scan# 1567
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:165 Resp: 54433

Ion	Ratio	Lower	Upper
165	100		
89	73.9	65.8	98.6
63	53.3	55.0	82.4#

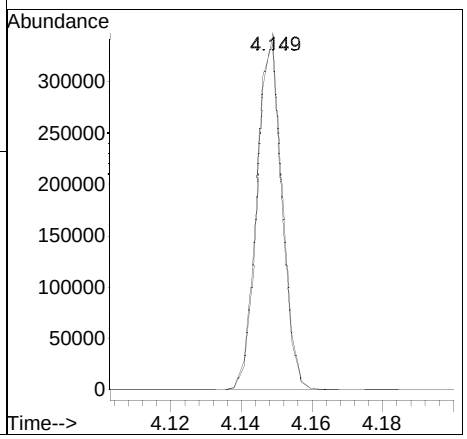


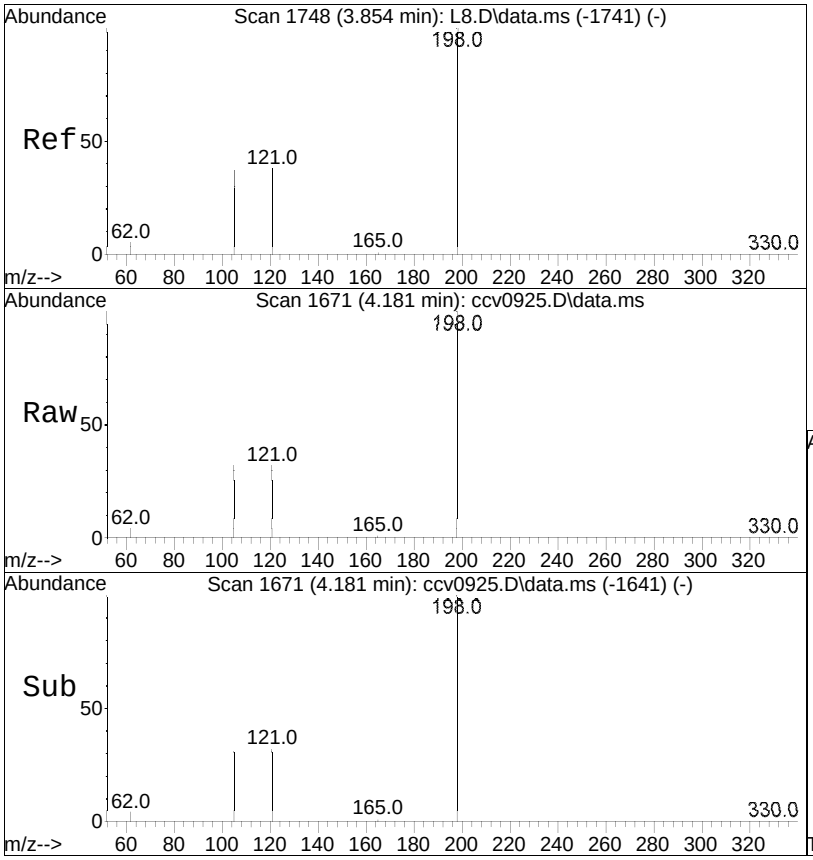


#20
Fluorene
Concen: 841.75 ng/ml
RT: 4.149 min Scan# 1659
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:166 Resp: 168532

Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.3	118.9

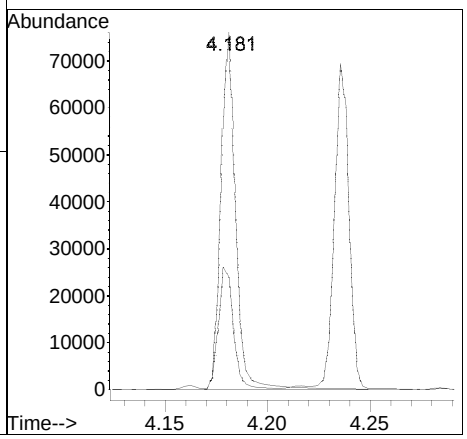


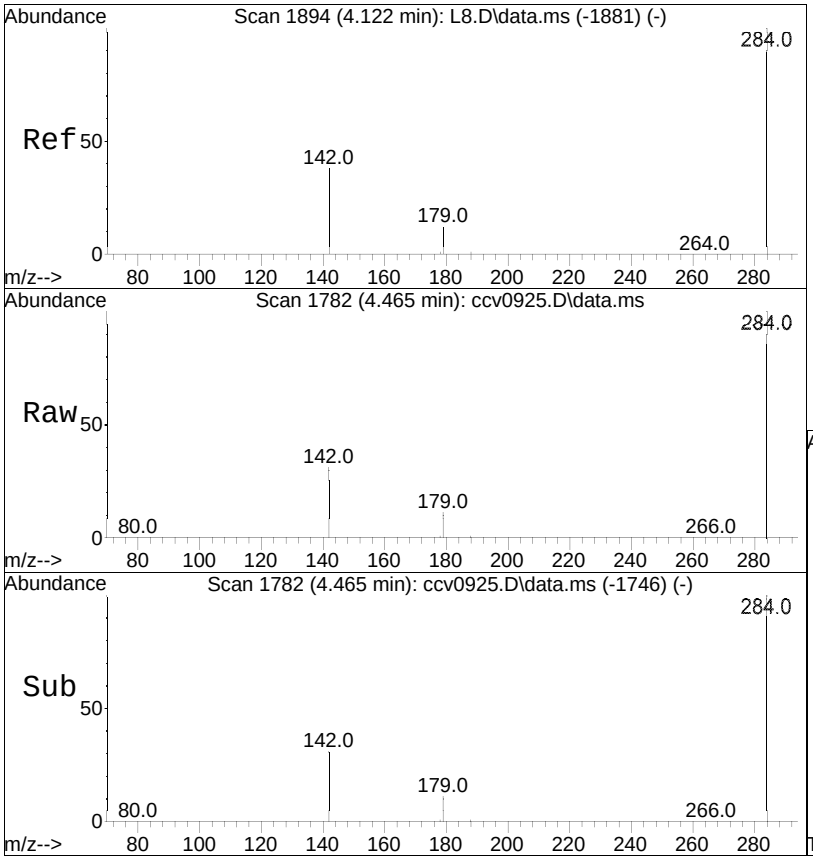


#23
4,6-Dinitro-o-cresol
Concen: 952.96 ng/ml
RT: 4.181 min Scan# 1671
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:198 Resp: 38056

Ion	Ratio	Lower	Upper
198	100		
105	34.5	35.6	53.4#

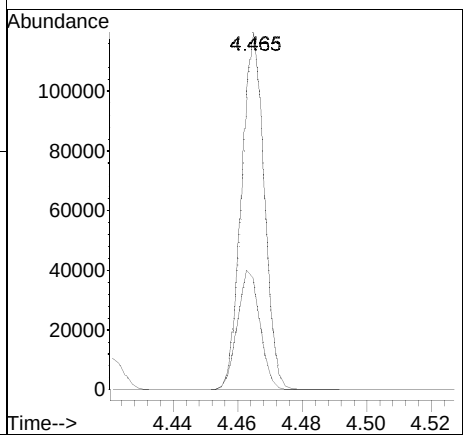


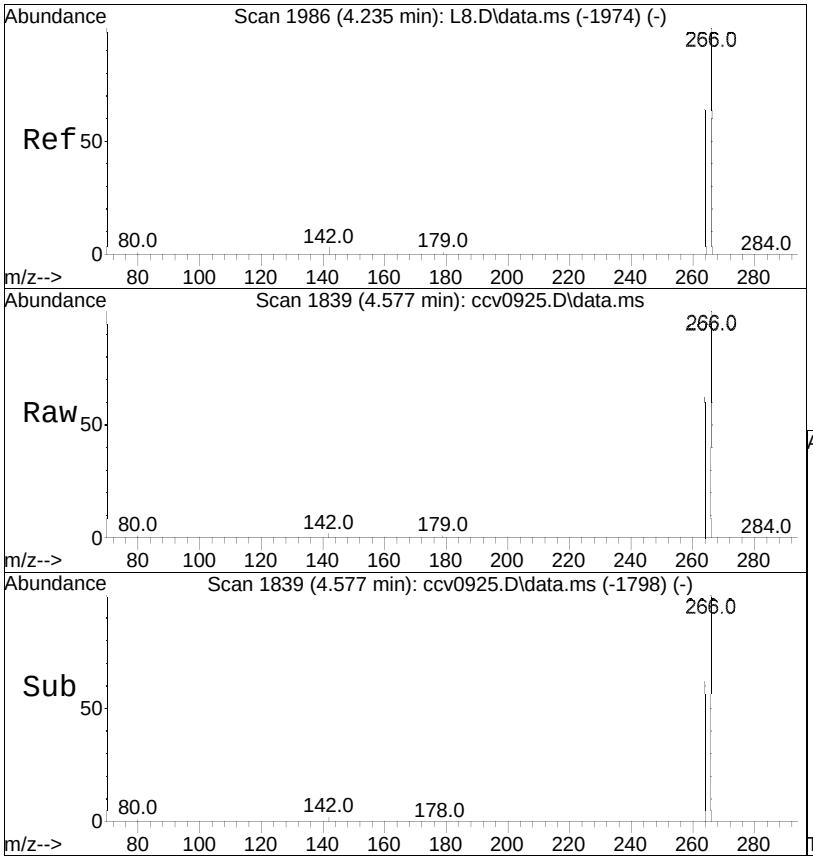


#24
Hexachlorobenzene
Concen: 866.57 ng/ml
RT: 4.465 min Scan# 1782
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:284 Resp: 57813

Ion	Ratio	Lower	Upper
284	100		
142	33.6	30.0	45.0

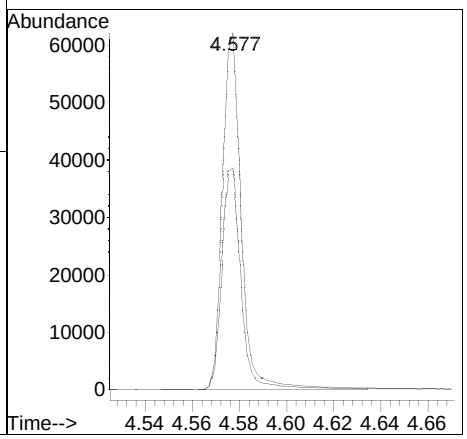


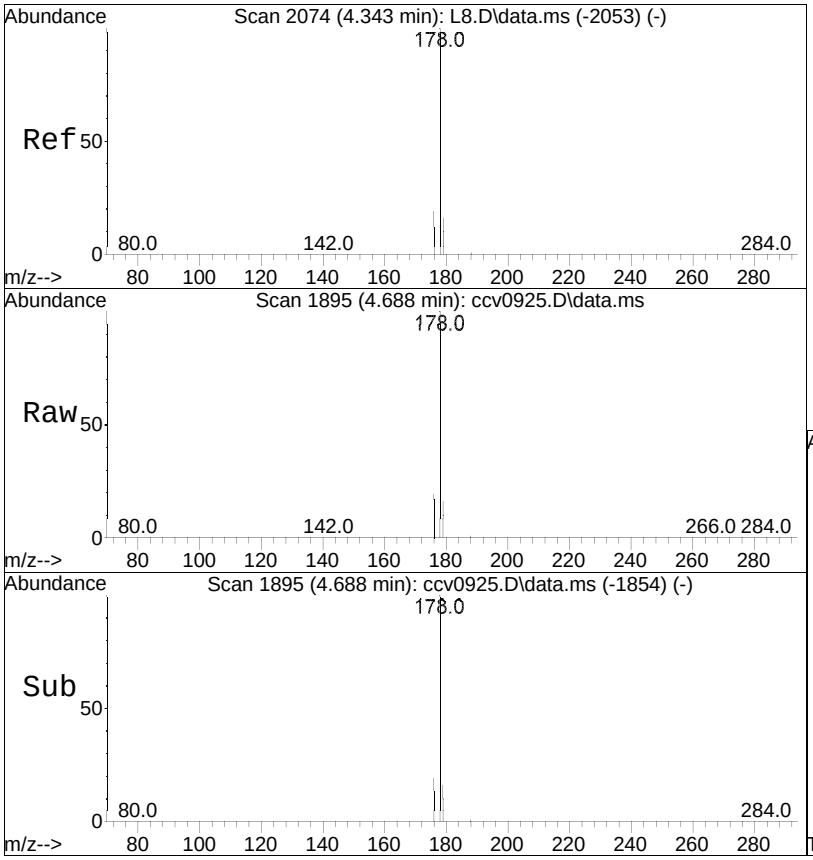


#25
Pentachlorophenol
Concen: 829.90 ng/ml
RT: 4.577 min Scan# 1839
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:266 Resp: 34216

Ion	Ratio	Lower	Upper
266	100		
264	63.6	49.9	74.9

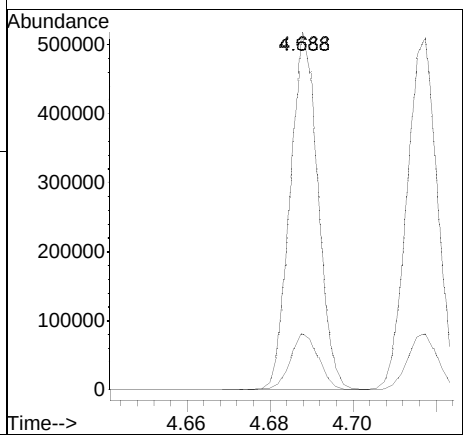


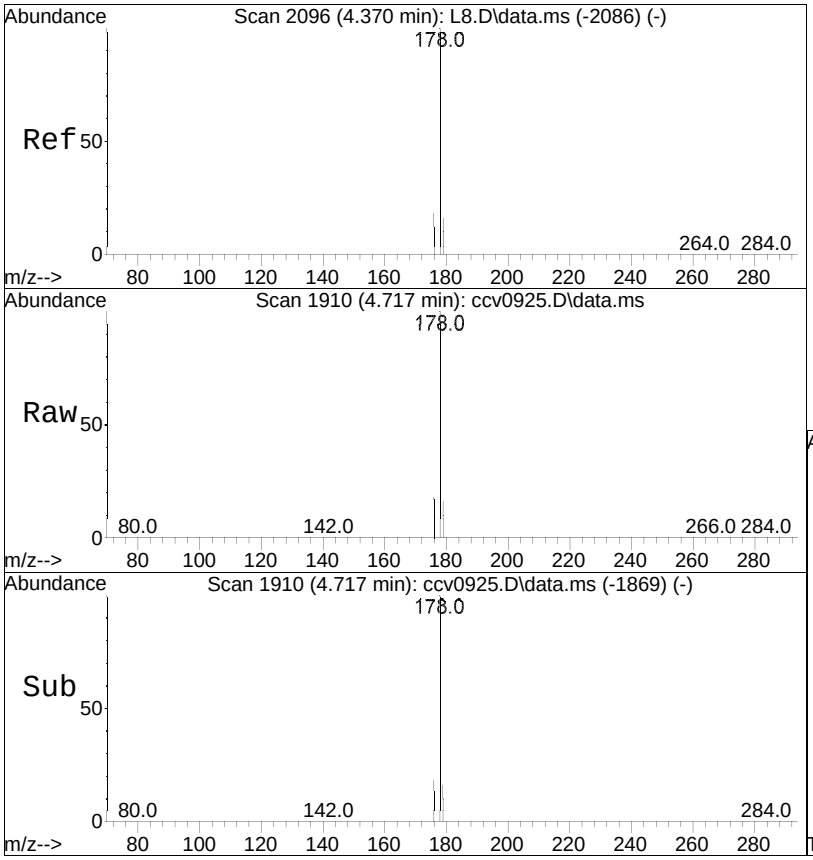


#26
Phenanthrene
Concen: 856.93 ng/ml
RT: 4.688 min Scan# 1895
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:178 Resp: 242055

Ion	Ratio	Lower	Upper
178	100		
179	15.9	12.6	18.8

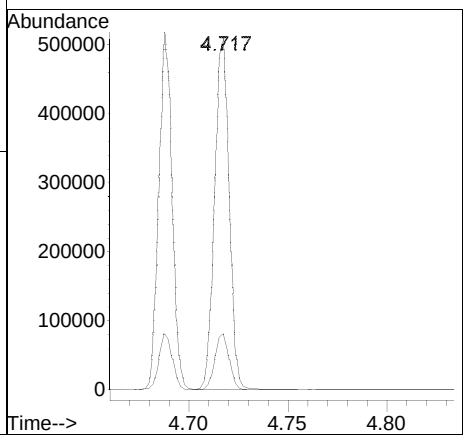


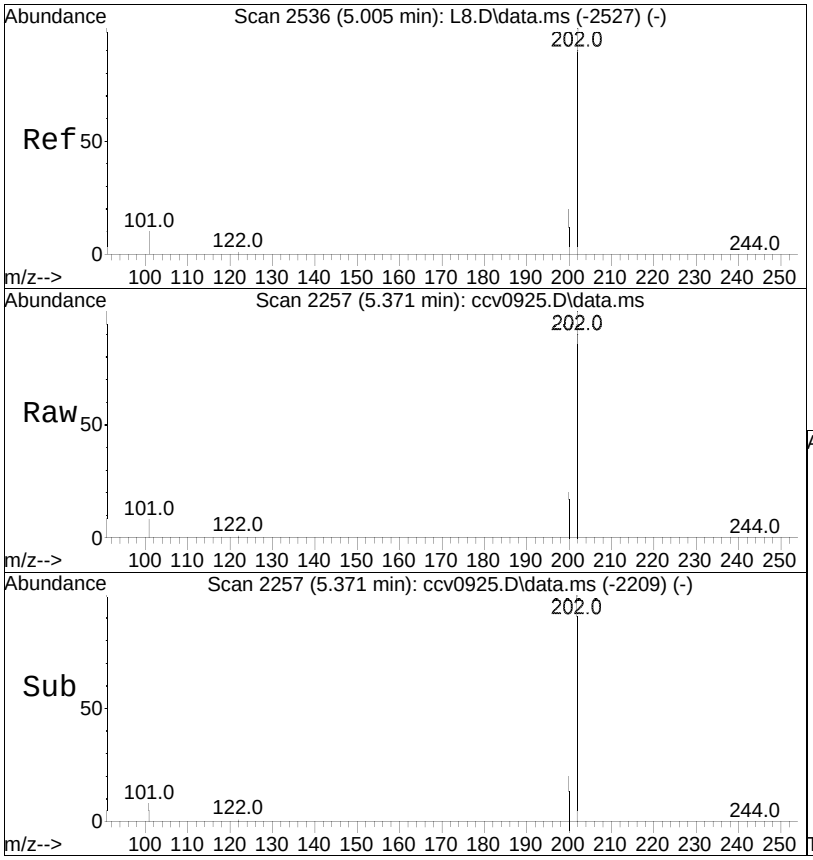


#27
Anthracene
Concen: 894.89 ng/ml
RT: 4.717 min Scan# 1910
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:178 Resp: 261169

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.4	18.6

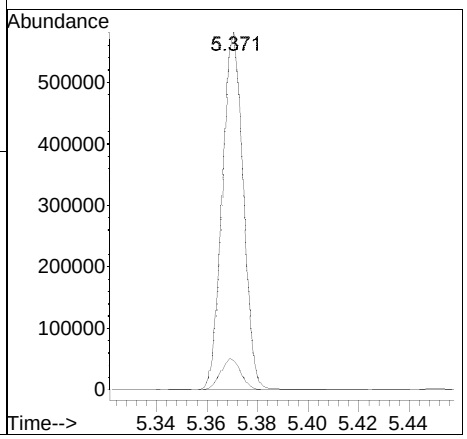


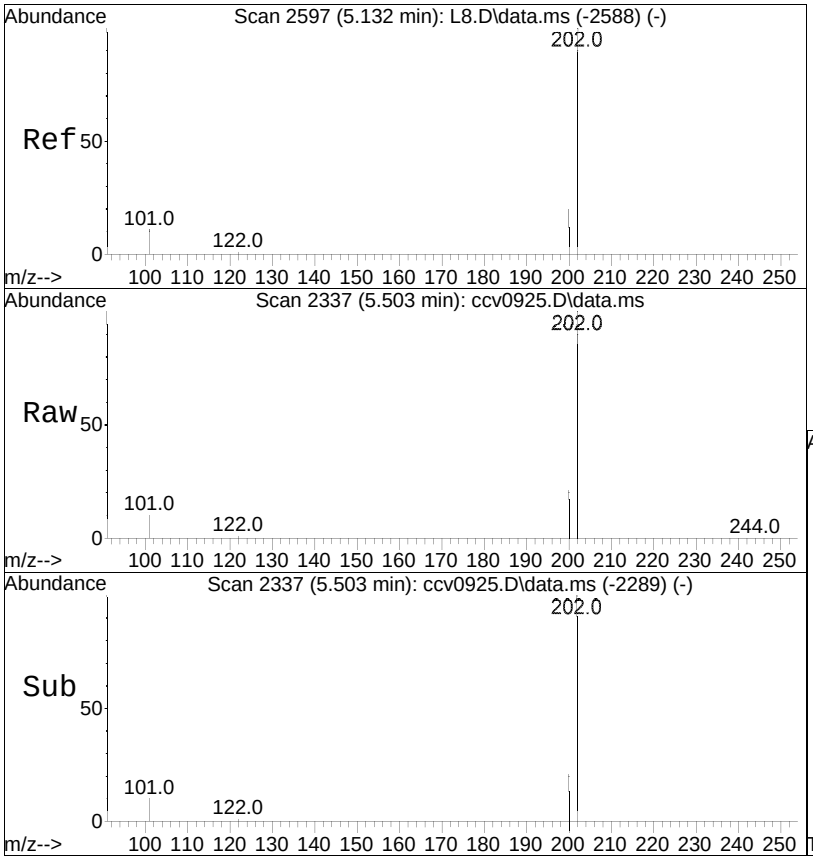


#28
Fluoranthene
Concen: 850.24 ng/ml
RT: 5.371 min Scan# 2257
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:202 Resp: 329775

Ion	Ratio	Lower	Upper
202	100		
101	8.5	8.1	12.1

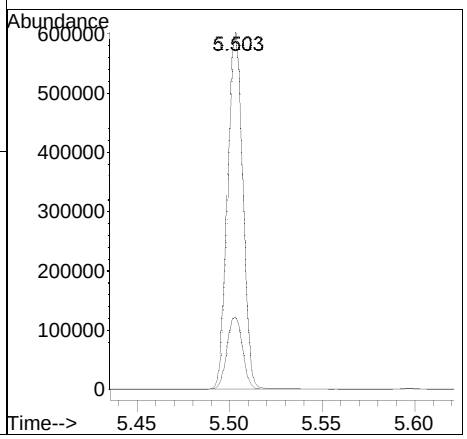


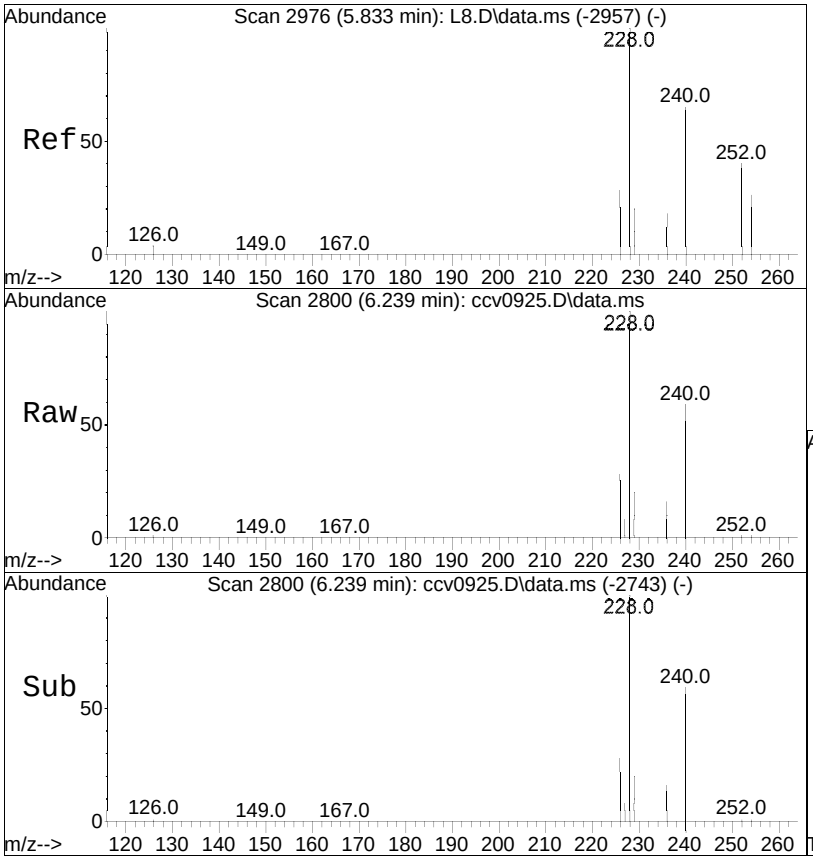


#29
Pyrene
Concen: 846.01 ng/ml
RT: 5.503 min Scan# 2337
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:202 Resp: 340028

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.5	24.7

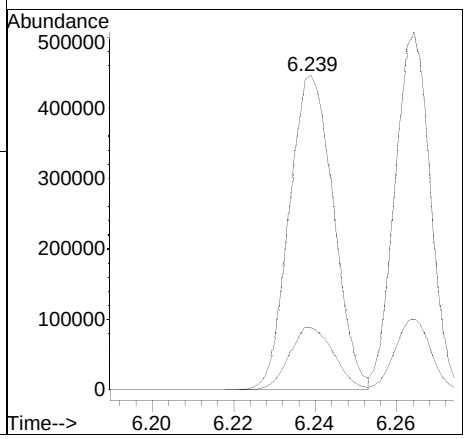


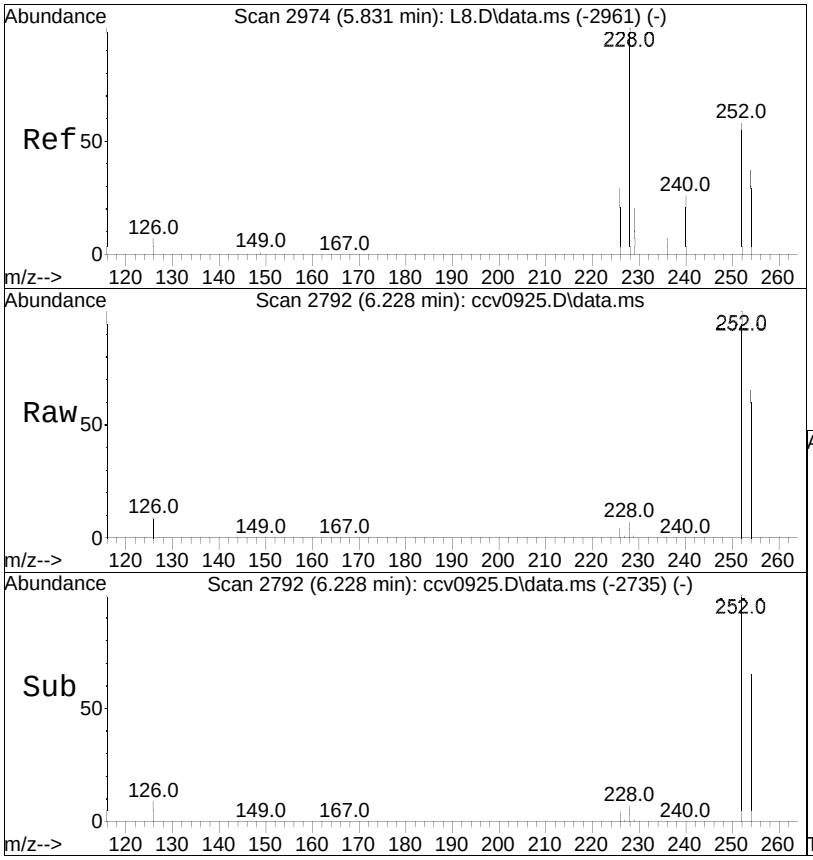


#32
Benzo[a]anthracene
Concen: 859.34 ng/ml
RT: 6.239 min Scan# 2800
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:228 Resp: 335998

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.8	23.8

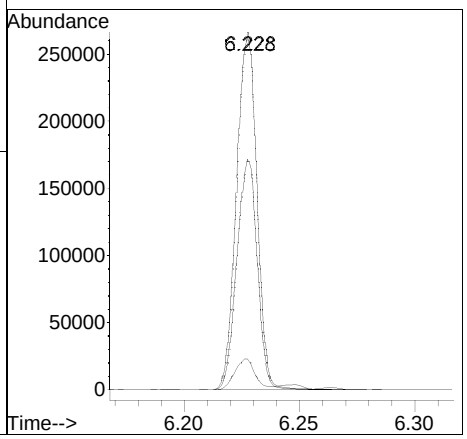


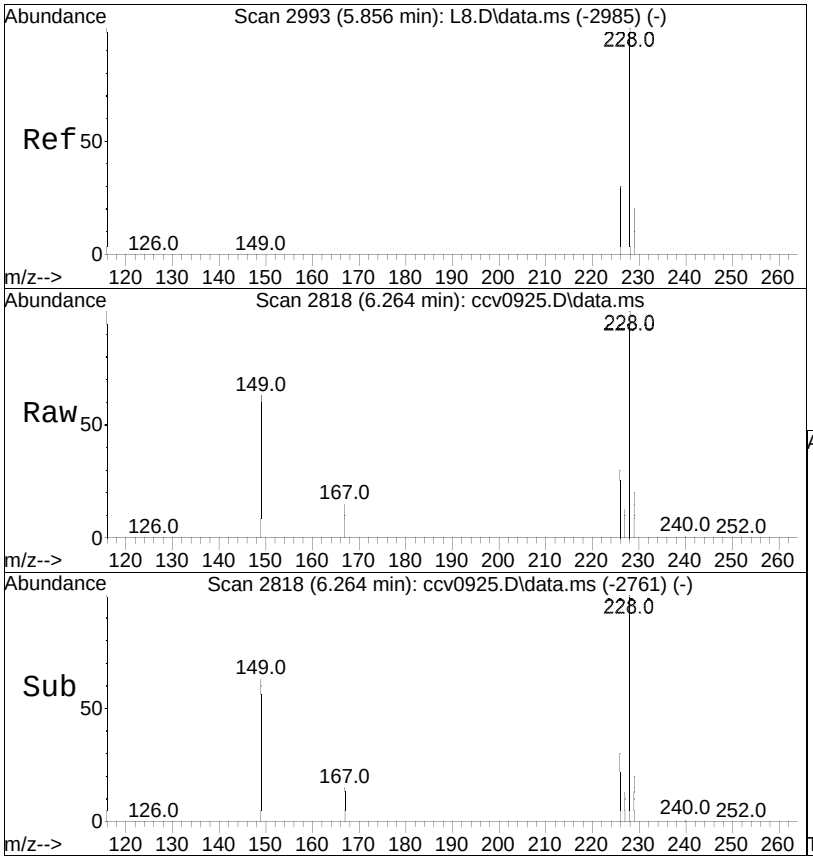


#33
3,3'-Dichlorobenzene
Concen: 1021.98 ng/ml
RT: 6.228 min Scan# 2792
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:252 Resp: 161089

Ion	Ratio	Lower	Upper
252	100		
126	8.8	10.5	15.7#
254	64.8	51.4	77.0

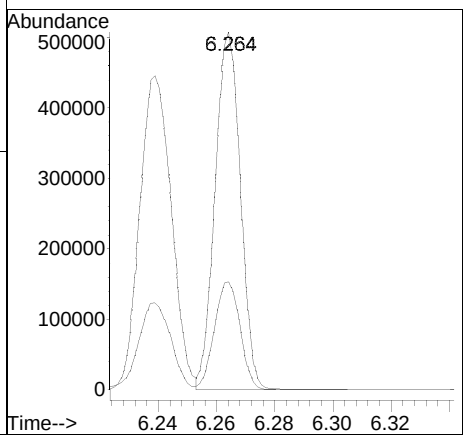


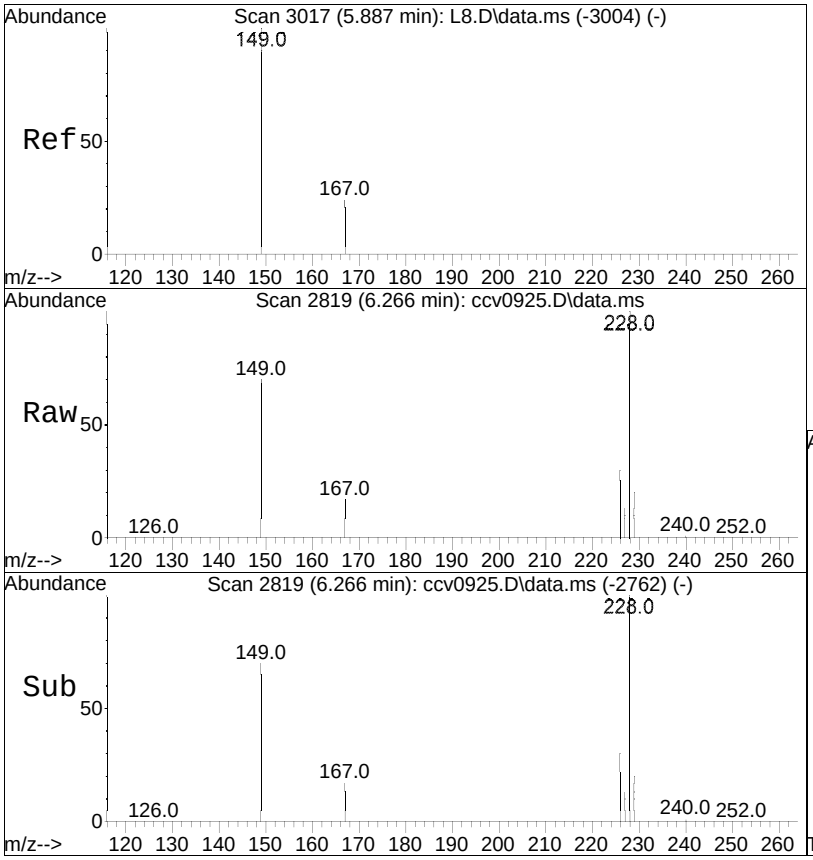


#34
Chrysene
Concen: 797.30 ng/ml
RT: 6.264 min Scan# 2818
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:228 Resp: 306239

Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.9	35.9

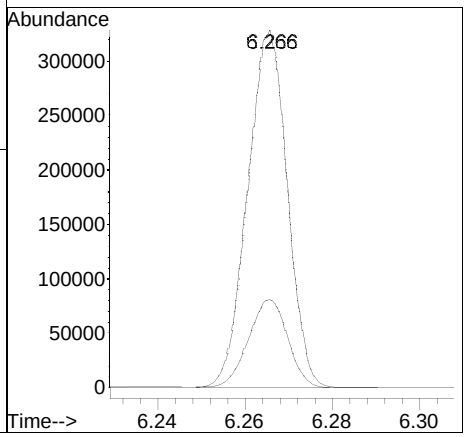


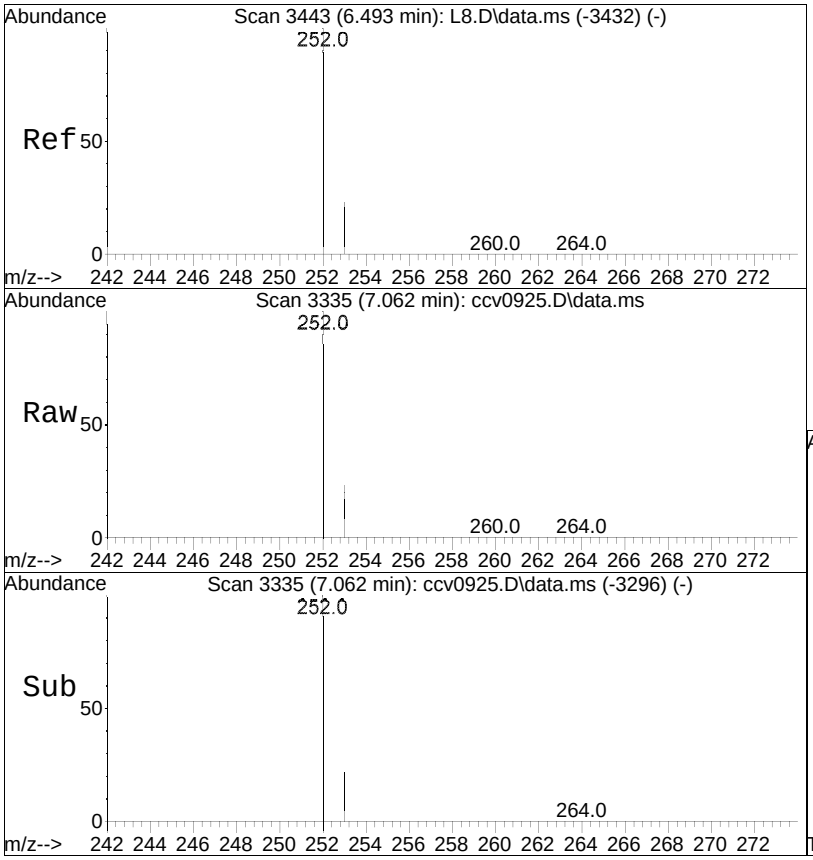


#35
Bis(2-ethylhexyl)phthalate
Concen: 738.25 ng/ml
RT: 6.266 min Scan# 2819
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:149 Resp: 204937

Ion	Ratio	Lower	Upper
149	100		
167	24.9	19.0	28.4

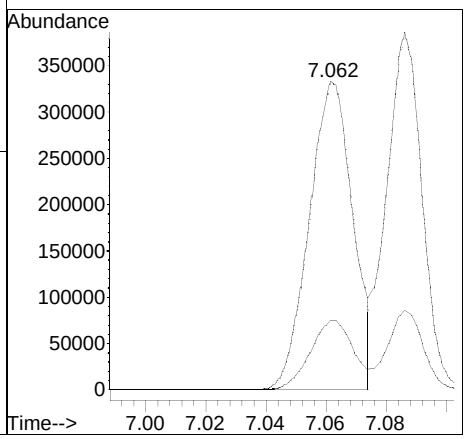


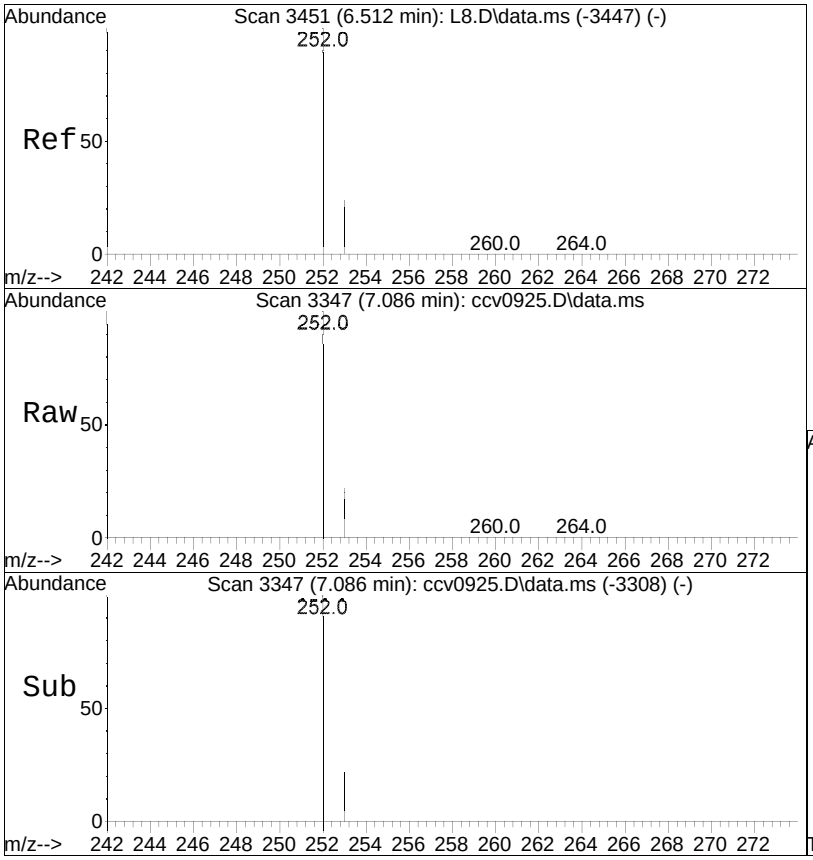


#37
Benzo[b]fluoranthene
Concen: 785.36 ng/ml
RT: 7.062 min Scan# 3335
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:252 Resp: 333957

Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.0	27.0

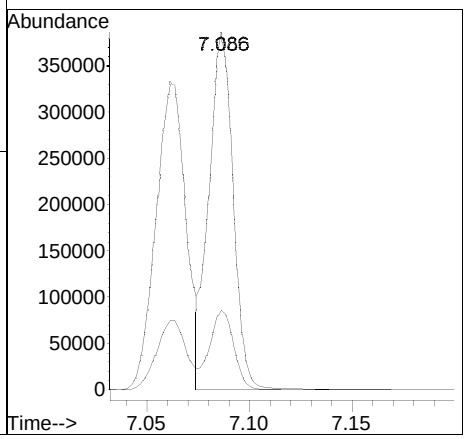


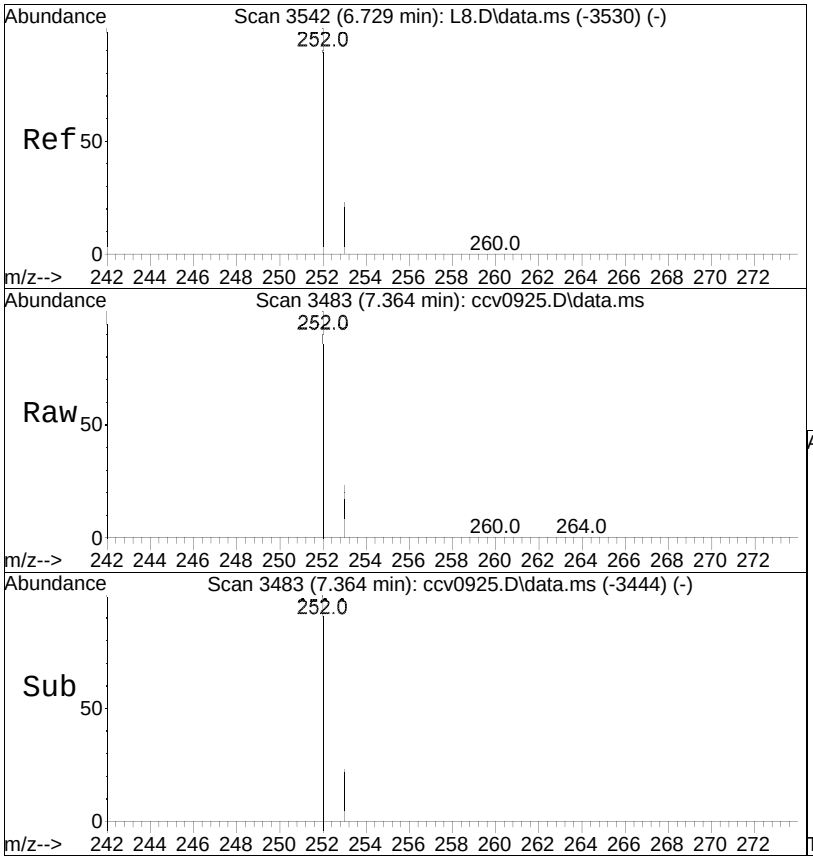


#38
Benzo[k]fluoranthene
Concen: 804.41 ng/ml
RT: 7.086 min Scan# 3347
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:252 Resp: 316007

Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.3	27.5

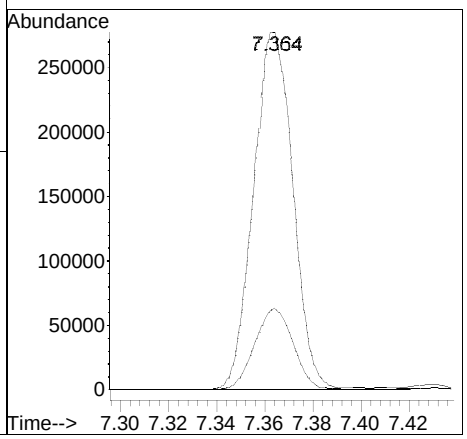


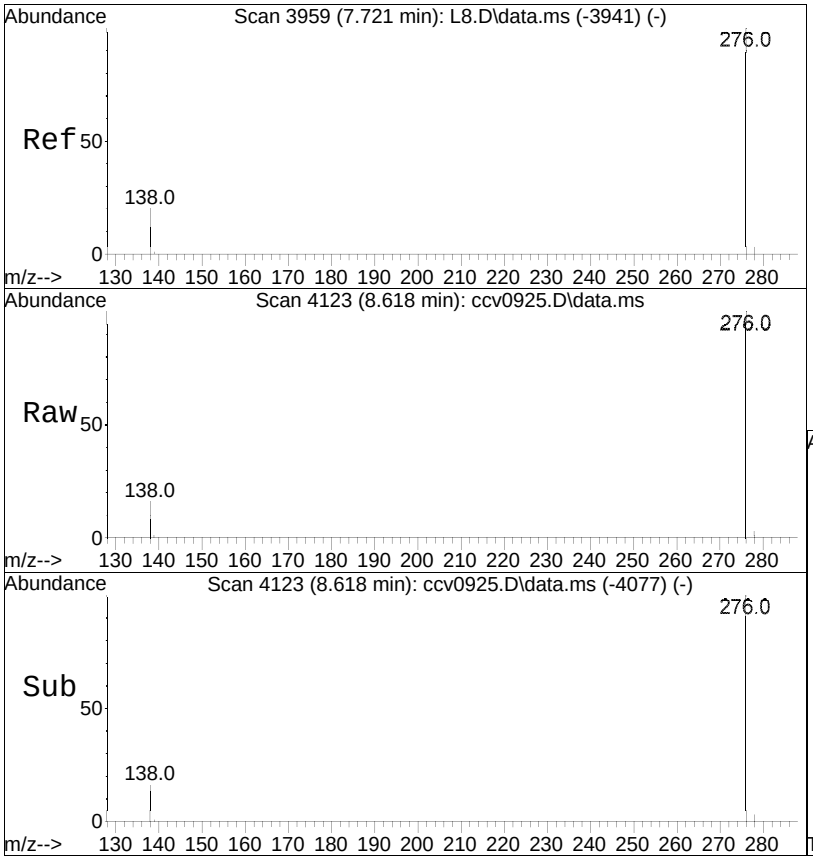


#39
Benzo[a]pyrene
Concen: 828.66 ng/ml
RT: 7.364 min Scan# 3483
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:252 Resp: 312084

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9

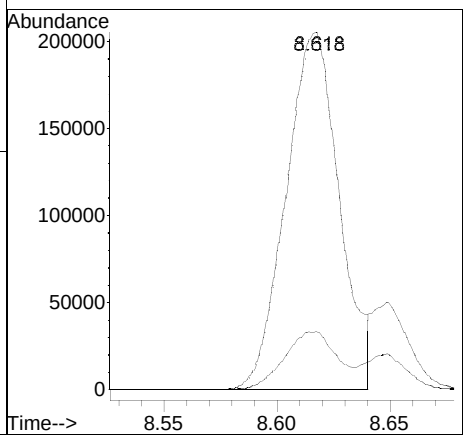


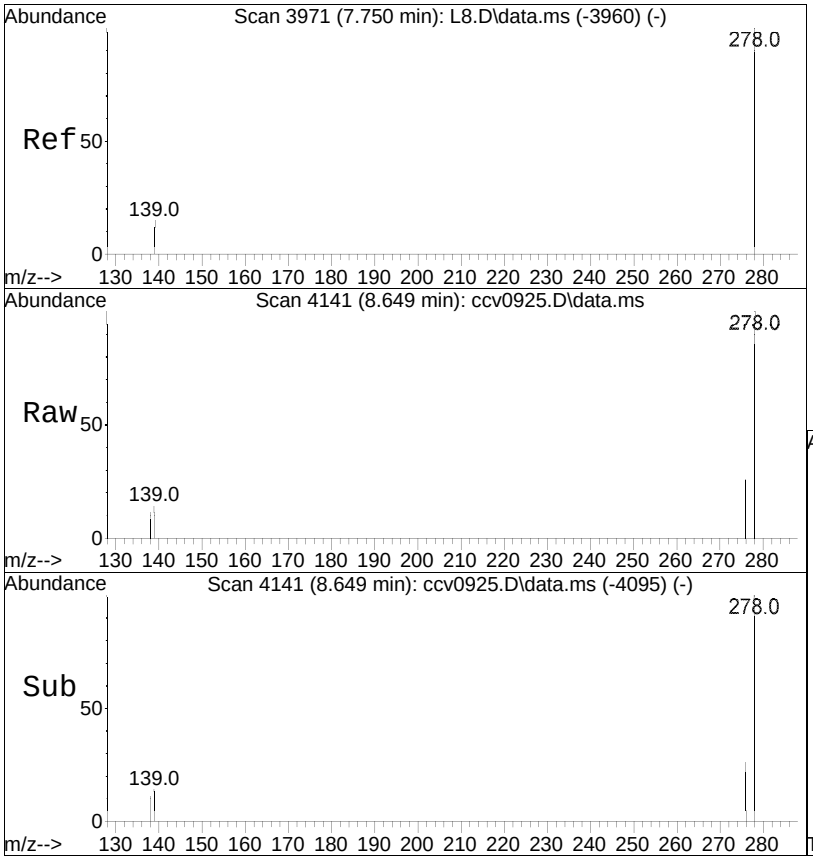


#40
Indeno[1,2,3-cd]pyrene
Concen: 878.77 ng/ml
RT: 8.618 min Scan# 4123
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:276 Resp: 334560

Ion	Ratio	Lower	Upper
276	100		
138	16.0	15.1	22.7

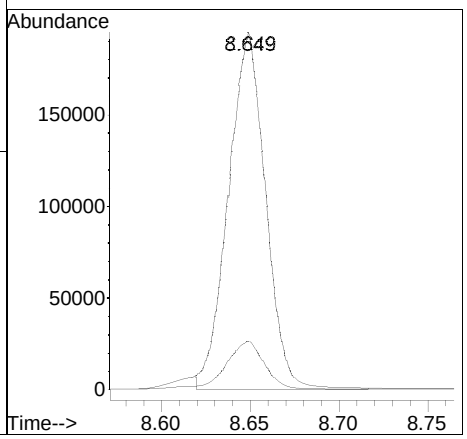


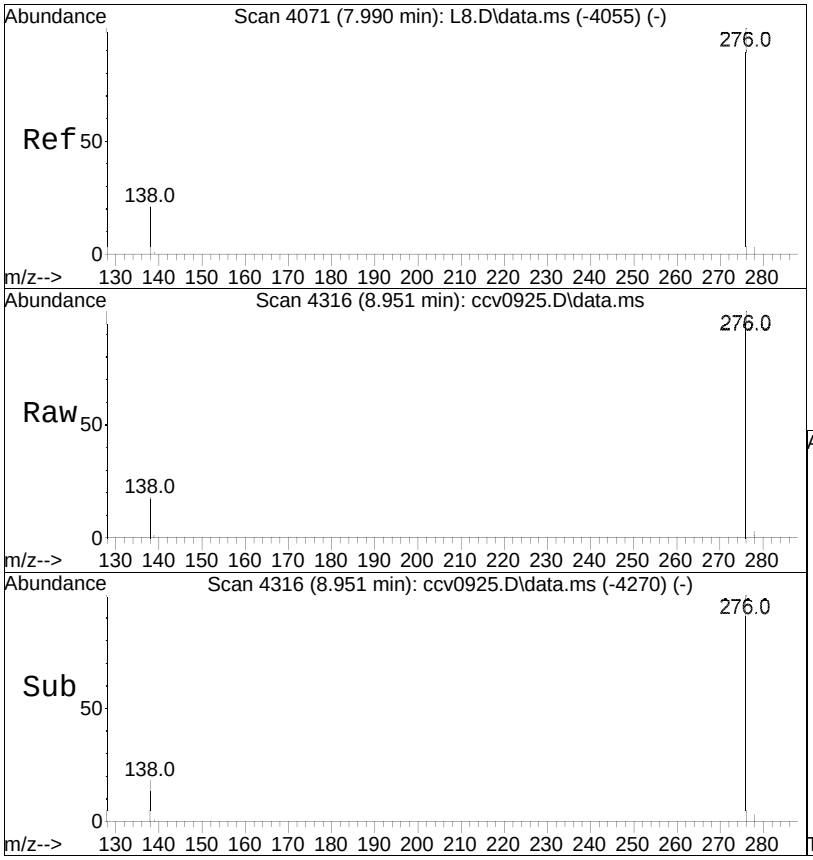


#41
Dibenzo[a,h]anthracene
Concen: 830.51 ng/ml M6
RT: 8.649 min Scan# 4141
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:278 Resp: 281655

Ion	Ratio	Lower	Upper
278	100		
139	14.2	13.3	19.9

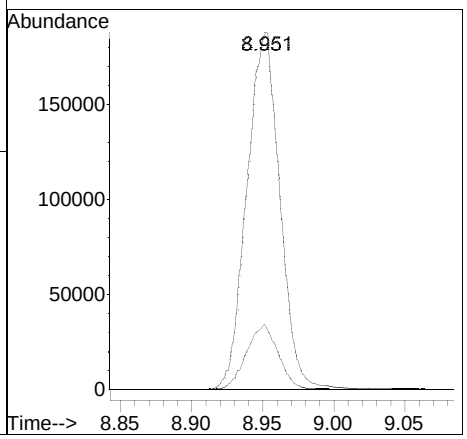




#42
Benzo[g,h,i]perylene
Concen: 799.10 ng/ml
RT: 8.951 min Scan# 4316
Delta R.T. 0.000 min
Lab File: ccv0925.D
Acq: 25 Sep 2024 08:17 am

Tgt Ion:276 Resp: 299243

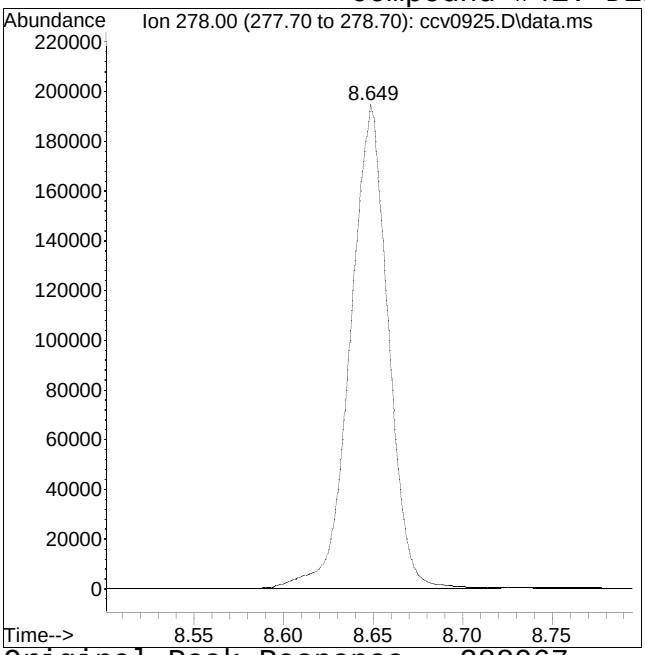
Ion	Ratio	Lower	Upper
276	100		
138	17.8	16.9	25.3



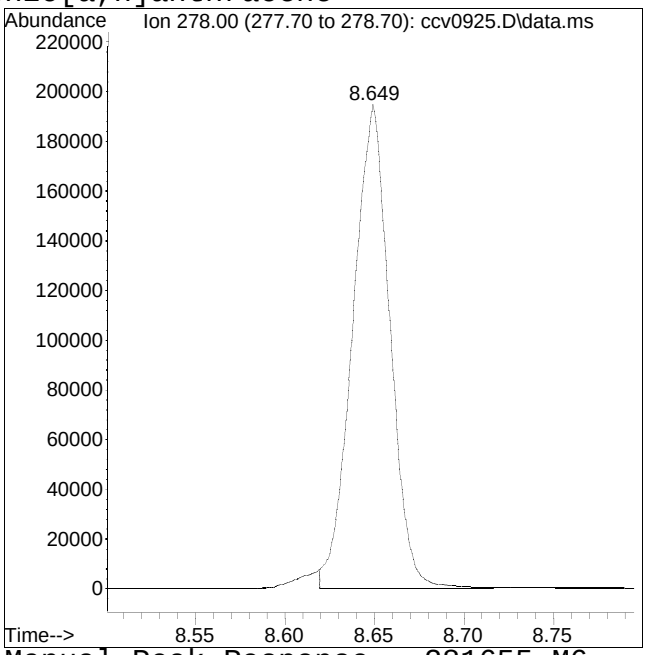
Manual Integration Report

Data Path : I:\8270SIM\sv119\240925RVTQMethod : SIM-RVT_240621_sv119.M
Data File : ccv0925.D Operator : sv119:rp
Date Inj'd : 9/25/2024 8:17 am Instrument : SV119
Sample : WG1976035-3,32,,ICV 10884 Quant Date : 9/25/2024 8:33 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 288067



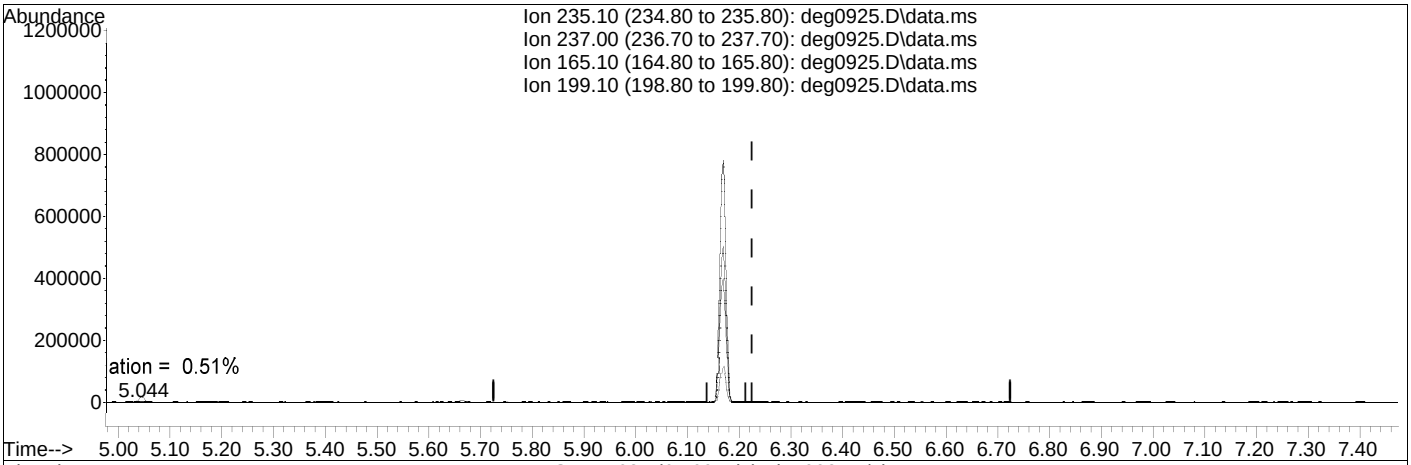
Manual Peak Response = 281655 M6

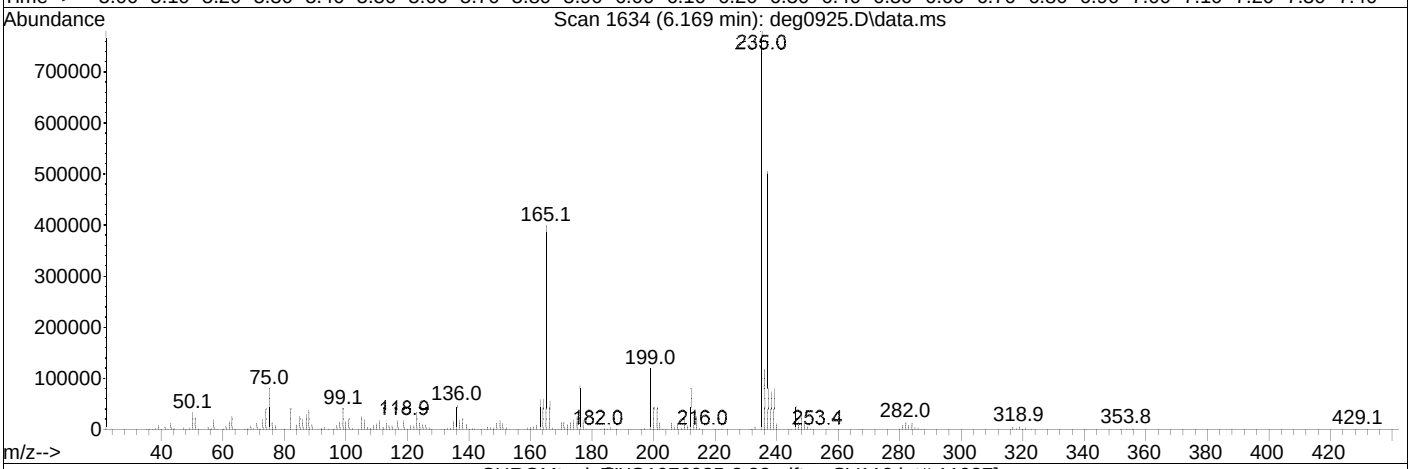
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : deg0925.D
Acq On : 25 Sep 2024 08:00 am
Operator : sv119:rp
Sample : WG1976035-2,32,,dftpp SV119 lot# 11037
Misc : WG1976035,,ical21236
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 25 08:12:59 2024
Quant Method : I:\8270SIM\sv119\240925RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 14 14:45:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1976035-2,32,,dftpp SV119 lot# 11037]

(6) ddt (T)

6.169min (-0.056) 97.58

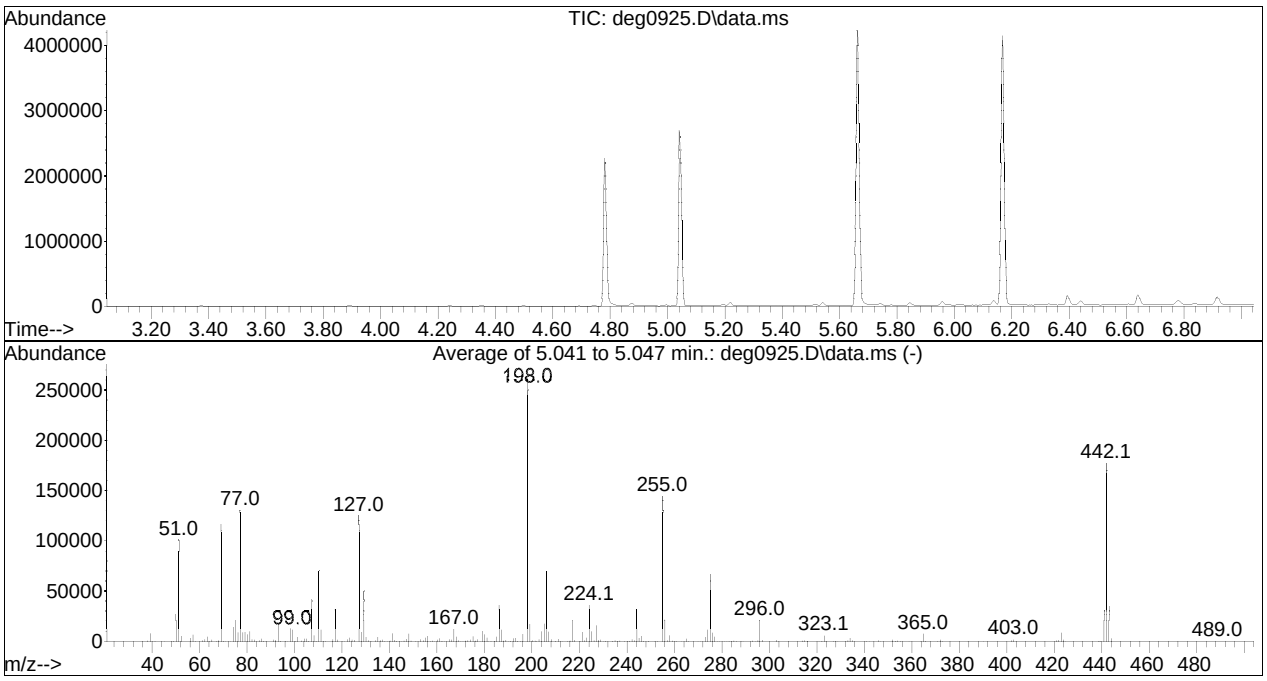
response 594810

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	65.36
165.10	53.30	51.51
199.10	17.10	15.08

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : deg0925.D
Acq On : 25 Sep 2024 08:00 am
Operator : sv119:rp
Sample : WG1976035-1,32,,dftpp SV119 lot# 11037
Misc : WG1976035,,ical21236
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\240925RVT\SIM-RVT_240621_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Sep 25 08:33:19 2024



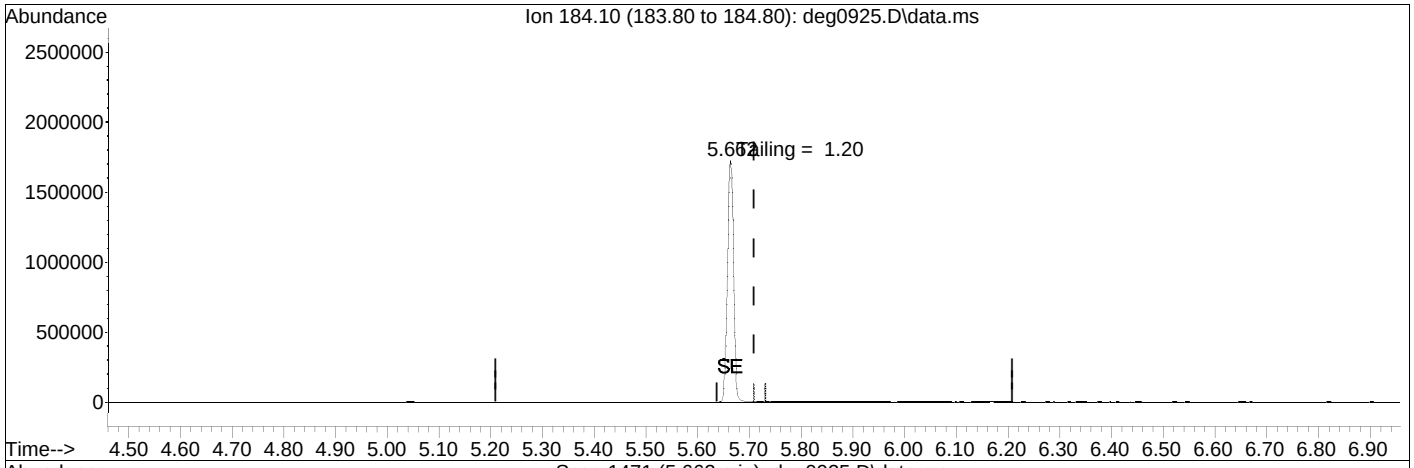
Spectrum Information: Average of 5.041 to 5.047 min.

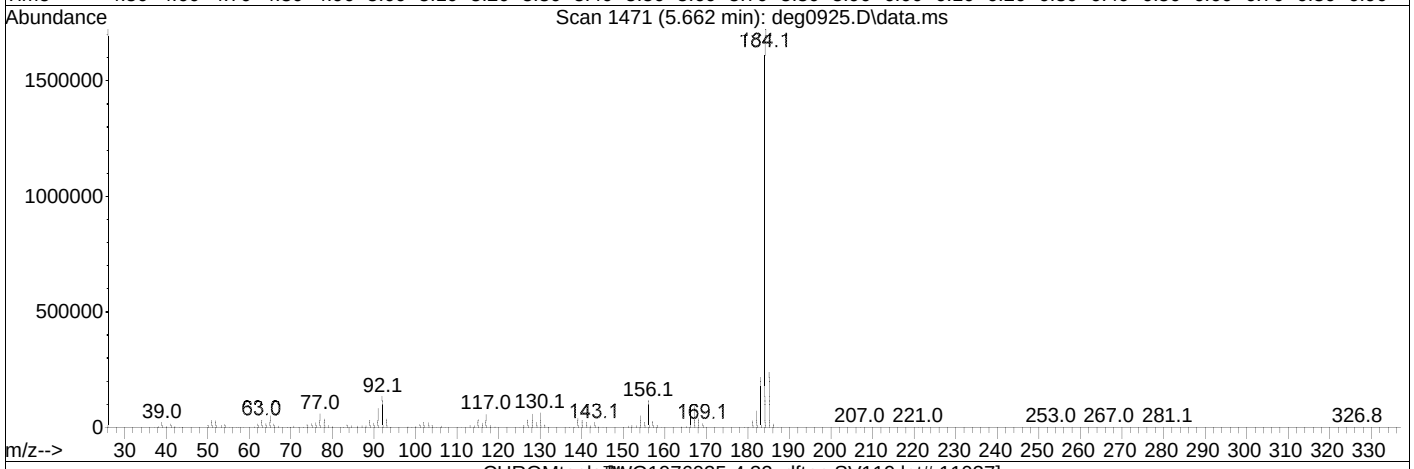
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.5	101055	PASS
68	69	0.00	2	1.3	1497	PASS
69	69	100	100	100.0	116159	PASS
70	69	0.00	2	0.9	1039	PASS
127	198	10	80	47.7	125123	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	262464	PASS
199	198	5	9	6.3	16469	PASS
275	198	10	60	25.4	66619	PASS
365	198	1	100	2.9	7697	PASS
441	442	0.01	24	17.8	31541	PASS
442	198	50	100	67.5	177173	PASS
443	442	15	24	19.8	35160	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : deg0925.D
Acq On : 25 Sep 2024 08:00 am
Operator : sv119:rp
Sample : WG1976035-4,32,,dftpp SV119 lot# 11037
Misc : WG1976035,,ical21236
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 25 08:12:59 2024
Quant Method : I:\8270SIM\sv119\240925RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 14 14:45:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1976035-4,32,,dftpp SV119 lot# 11037]

(3) benzidine (T)

5.662min (-0.047) 136.10

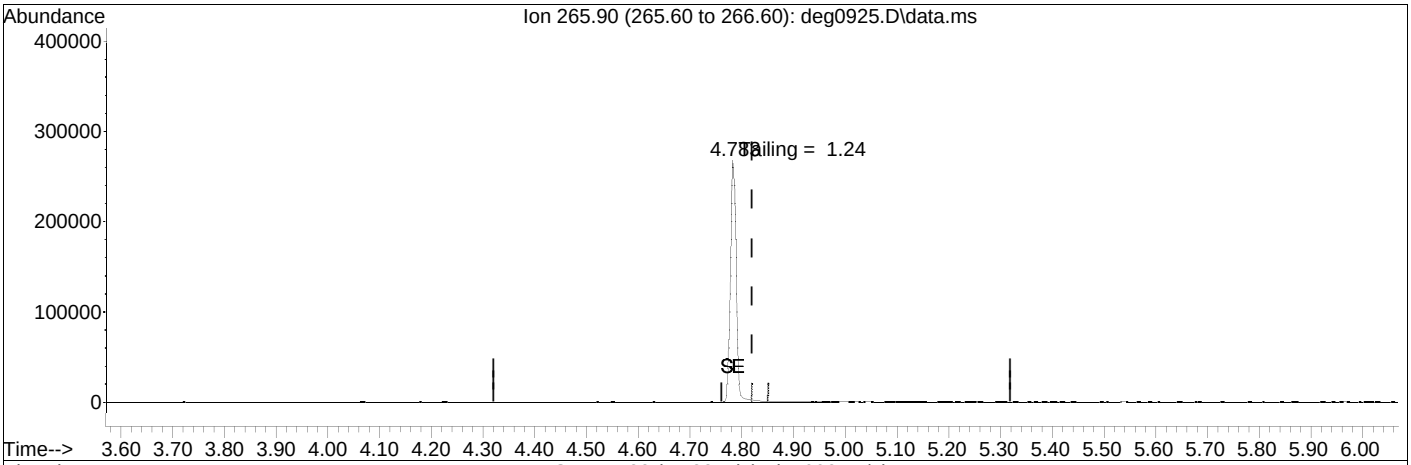
response 1385554

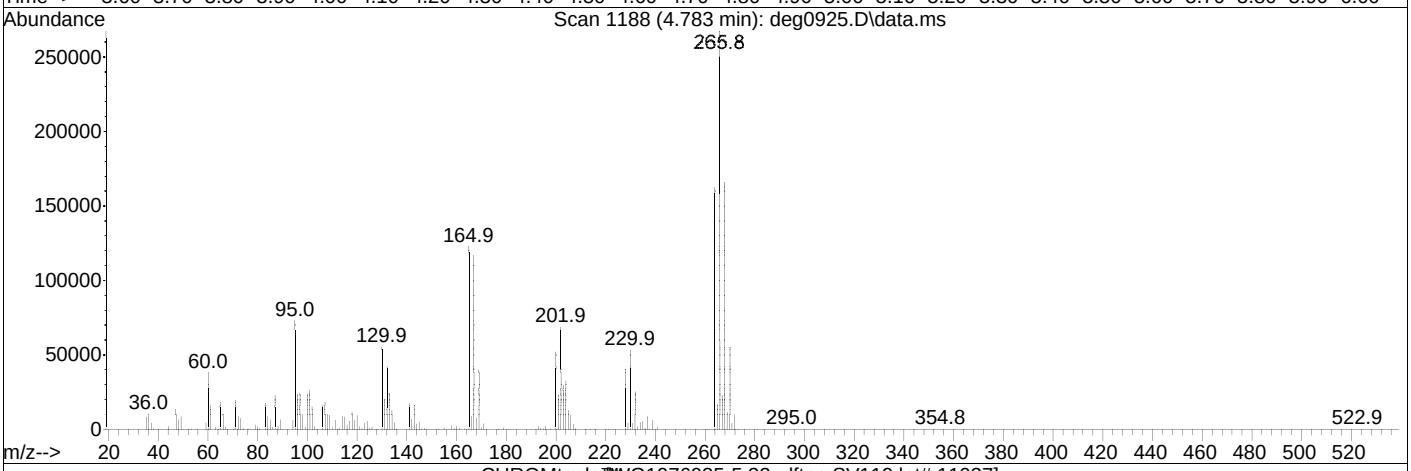
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : deg0925.D
Acq On : 25 Sep 2024 08:00 am
Operator : sv119:rp
Sample : WG1976035-5,32,,dftpp SV119 lot# 11037
Misc : WG1976035,,ical21236
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 25 08:12:59 2024
Quant Method : I:\8270SIM\sv119\240925RVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Sep 14 14:45:01 2024
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1976035-5,32,,dftpp SV119 lot# 11037]

(1) pentachlorophenol (T)

4.783min (-0.037) 96.53

response 202753

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 975326-1.D
Acq On : 24 Sep 2024 06:00 pm
Operator : SV120:mrg
Sample : WG1975326-1,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 18:32:16 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.106	152	213311	4000.000	ng/ml	0.00
Standard Area 1 = 198000			Recovery = 107.73%			
8) Naphthalene-d8	2.758	136	806332	4000.000	ng/ml	# 0.00
Standard Area 1 = 762436			Recovery = 105.76%			
17) Acenaphthene-d10	3.727	164	459023	4000.000	ng/ml	0.00
Standard Area 1 = 445852			Recovery = 102.95%			
22) Phenanthrene-d10	4.563	188	929896	4000.000	ng/ml	0.00
Standard Area 1 = 924365			Recovery = 100.60%			
31) Chrysene-d12	6.091	240	860589	4000.000	ng/ml	-0.02
Standard Area 1 = 850035			Recovery = 101.24%			
36) Perylene-d12	7.185	264	802087	4000.000	ng/ml	-0.02
Standard Area 1 = 833768			Recovery = 96.20%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.544	112	62796	991.098	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 49.55%			
3) Phenol-d6	1.930	99	56213	729.346	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 36.47%			
7) Nitrobenzene-d5	2.382	82	53372	850.846	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 85.08%			
13) 2-Fluorobiphenyl	3.354	172	125659	723.171	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 72.32%			
21) 2,4,6-Tribromophenol	4.172	330	41423	1639.132	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 81.96%			
30) 4-Terphenyl-d14	5.475	244	156318	802.683	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 40.13%			

Target Compounds				Qvalue
4) Bis(2-chloroethyl)ether	0.000	0	N.D. d	
6) Hexachloroethane	0.000	0	N.D.	
9) Naphthalene	0.000	0	N.D. d	
10) Hexachlorobutadiene	0.000	0	N.D.	
11) 2-Methylnaphthalene	0.000	0	N.D. d	
14) 2-Chloronaphthalene	0.000	0	N.D. d	
16) Acenaphthylene	0.000	0	N.D. d	
18) Acenaphthene	0.000	0	N.D. d	
20) Fluorene	0.000	0	N.D. d	
24) Hexachlorobenzene	0.000	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 975326-1.D
Acq On : 24 Sep 2024 06:00 pm
Operator : SV120:mrg
Sample : WG1975326-1,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 18:32:16 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	0.000		0	N.D.	d	
27) Anthracene	0.000		0	N.D.	d	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	0.000		0	N.D.	d	
32) Benzo[a]anthracene	0.000		0	N.D.	d	
34) Chrysene	0.000		0	N.D.	d	
37) Benzo[b]fluoranthene	0.000		0	N.D.		
38) Benzo[k]fluoranthene	0.000		0	N.D.		
39) Benzo[a]pyrene	0.000		0	N.D.	d	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
41) Dibenzo[a,h]anthracene	0.000		0	N.D.		
42) Benzo[g,h,i]perylene	0.000		0	N.D.		

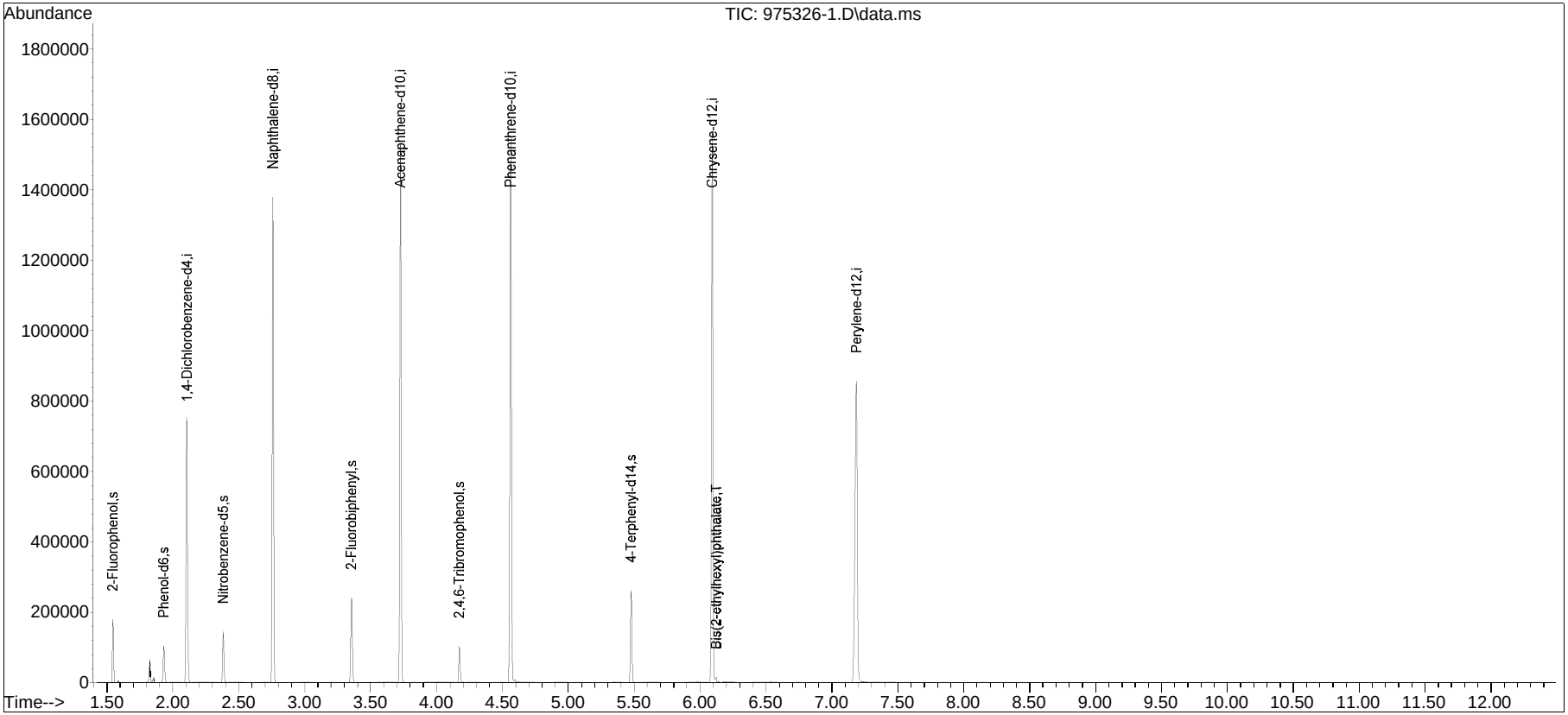
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 975326-1.D
Acq On : 24 Sep 2024 06:00 pm
Operator : SV120:mrg
Sample : WG1975326-1,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 24 18:32:16 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0924.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv120\240924RVTQ	Method	: SIM-RVT_240728_sv120.M
Data File	: 975326-1.D	Operator	: SV120:mrg
Date Inj'd	: 9/24/2024 6:00 pm	Instrument	: SV120
Sample	: WG1975326-1,32,,kmh	Quant Date	: 9/24/2024 6:13 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 975326-2.D
Acq On : 24 Sep 2024 05:27 pm
Operator : SV120:mrg
Sample : WG1975326-2,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 18:33:16 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.103	152	209843	4000.000	ng/ml	0.00
Standard Area 1 = 198000			Recovery	= 105.98%		
8) Naphthalene-d8	2.758	136	803298	4000.000	ng/ml	# 0.00
Standard Area 1 = 762436			Recovery	= 105.36%		
17) Acenaphthene-d10	3.730	164	461814	4000.000	ng/ml	0.00
Standard Area 1 = 445852			Recovery	= 103.58%		
22) Phenanthrene-d10	4.565	188	923311	4000.000	ng/ml	0.00
Standard Area 1 = 924365			Recovery	= 99.89%		
31) Chrysene-d12	6.093	240	806252	4000.000	ng/ml	-0.02
Standard Area 1 = 850035			Recovery	= 94.85%		
36) Perylene-d12	7.189	264	787578	4000.000	ng/ml	-0.01
Standard Area 1 = 833768			Recovery	= 94.46%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.547	112	50127	804.221	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 40.21%		
3) Phenol-d6	1.930	99	50302	663.438	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 33.17%		
7) Nitrobenzene-d5	2.382	82	46277	749.931	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 74.99%		
13) 2-Fluorobiphenyl	3.354	172	112116	647.668	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 64.77%		
21) 2,4,6-Tribromophenol	4.174	330	35474	1395.243	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 69.76%		
30) 4-Terphenyl-d14	5.475	244	135887	702.748	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 35.14%		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.973	93	81016	1174.340	ng/ml	84
6) Hexachloroethane	2.357	117	32557	1105.977	ng/ml	90
9) Naphthalene	2.769	128	260242	1128.191	ng/ml#	100
10) Hexachlorobutadiene	2.844	225	49396	1246.642	ng/ml	100
11) 2-Methylnaphthalene	3.148	142	182238	1244.655	ng/ml	100
14) 2-Chloronaphthalene	3.417	162	187933	1263.279	ng/ml	93
16) Acenaphthylene	3.646	152	294758	1380.161	ng/ml	100
18) Acenaphthene	3.746	153	201645	1210.793	ng/ml	95
20) Fluorene	4.036	166	233718	1266.446	ng/ml	100
24) Hexachlorobenzene	4.351	284	86835	1341.293	ng/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 975326-2.D
Acq On : 24 Sep 2024 05:27 pm
Operator : SV120:mrg
Sample : WG1975326-2,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 18:33:16 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.468	266	35857	1179.885	ng/ml	100
26) Phenanthrene	4.576	178	361369	1318.046	ng/ml	100
27) Anthracene	4.604	178	370931	1402.302	ng/ml	100
28) Fluoranthene	5.250	202	438002	1478.533	ng/ml	99
29) Pyrene	5.380	202	455739	1476.612	ng/ml	99
32) Benzo[a]anthracene	6.085	228	418052	1371.659	ng/ml	100
34) Chrysene	6.108	228	386476	1317.927	ng/ml	97
37) Benzo[b]fluoranthene	6.849	252	384150	1445.014	ng/ml	96
38) Benzo[k]fluoranthene	6.869	252	383533	1531.269	ng/ml	97
39) Benzo[a]pyrene	7.127	252	336431	1582.401	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.295	276	359462	1804.317	ng/ml	97
41) Dibenzo[a,h]anthracene	8.327	278	319071M6	1706.560	ng/ml	
42) Benzo[g,h,i]perylene	8.607	276	323807	1590.085	ng/ml	98

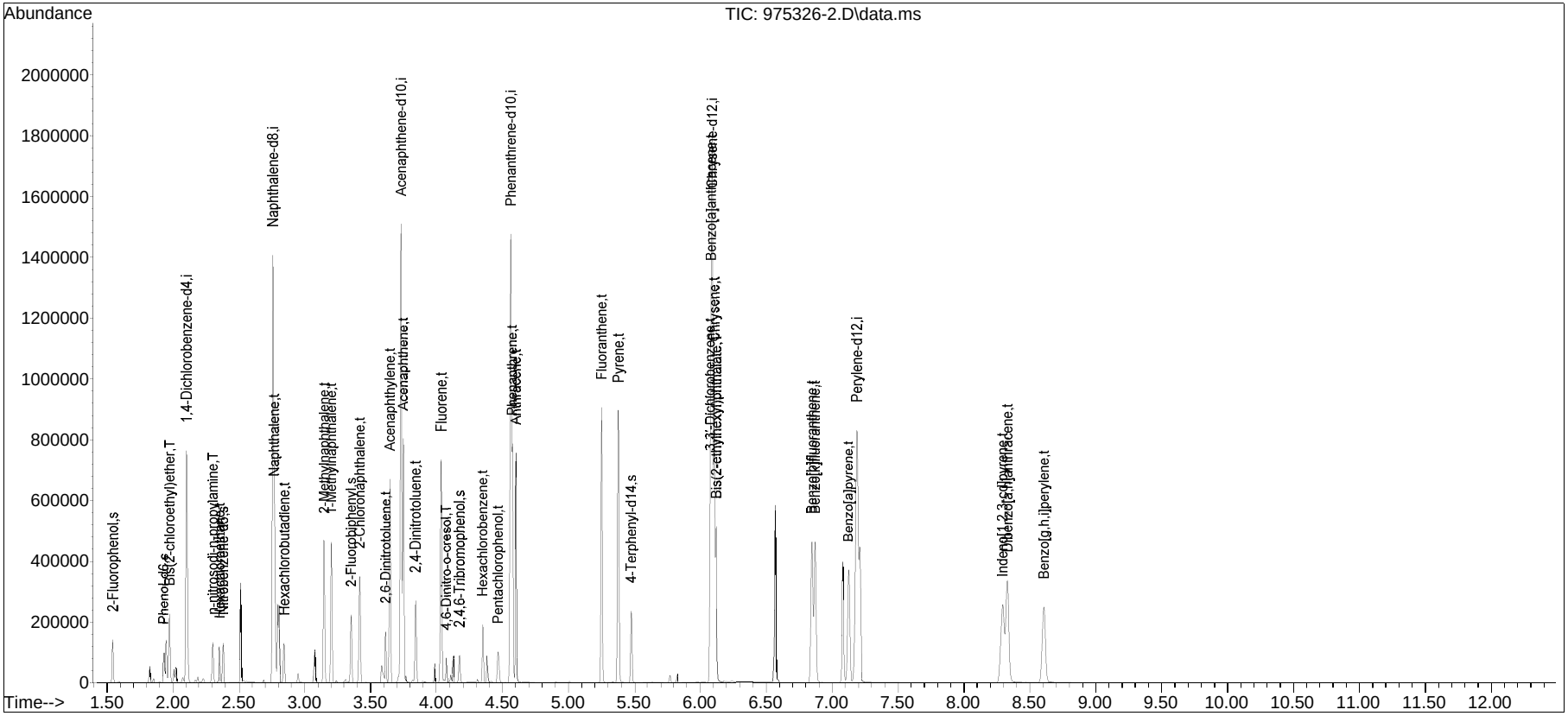
(#) = qualifier out of range (m) = manual integration (+) = signals summed

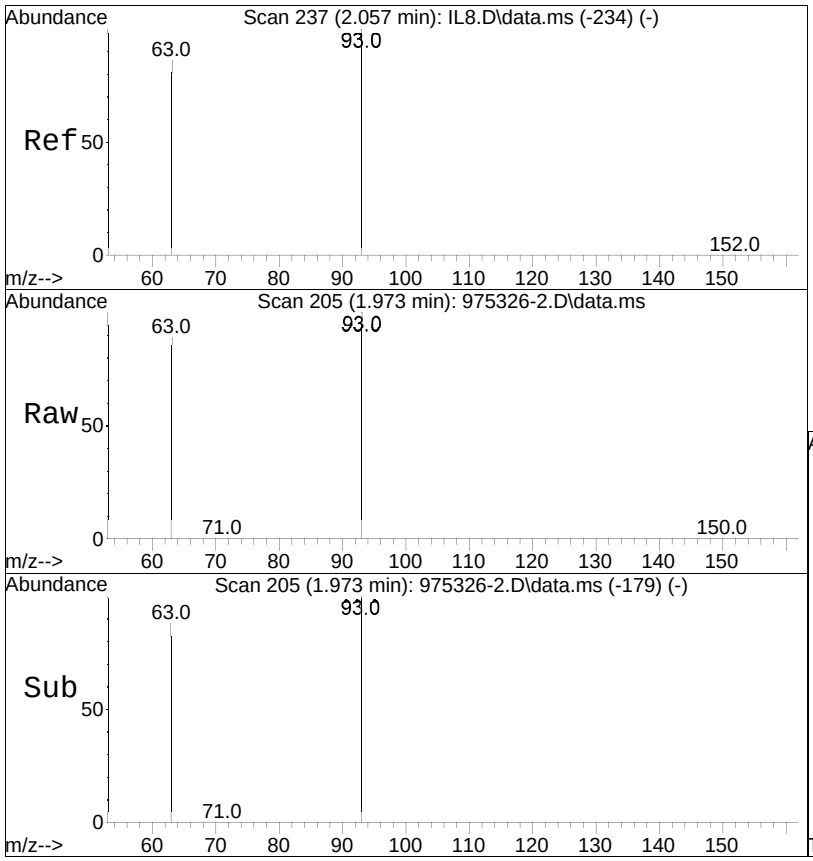
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 975326-2.D
Acq On : 24 Sep 2024 05:27 pm
Operator : SV120:mrg
Sample : WG1975326-2,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 24 18:33:16 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0924.D•

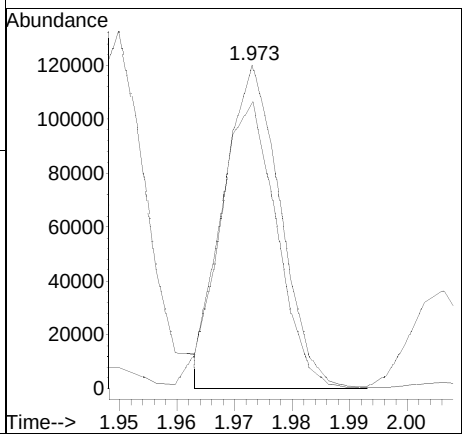


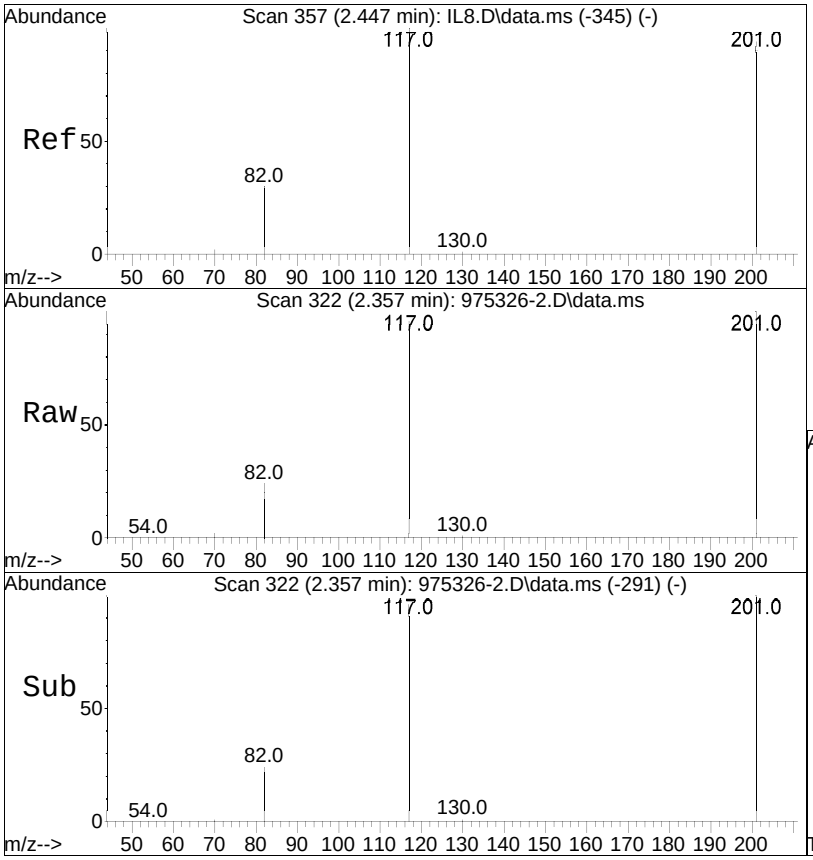


#4
Bis(2-chloroethyl)ether
Concen: 1174.34 ng/ml
RT: 1.973 min Scan# 205
Delta R.T. 0.006 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion: 93 Resp: 81016

Ion	Ratio	Lower	Upper
93	100		
63	91.3	61.8	92.6

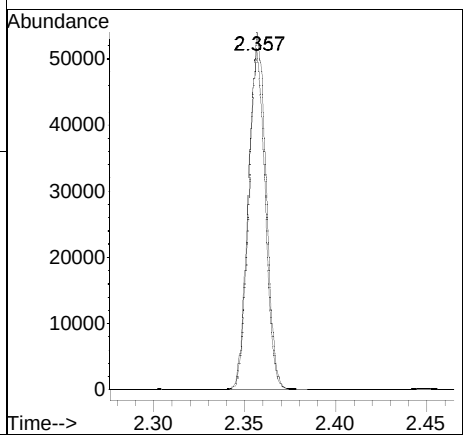


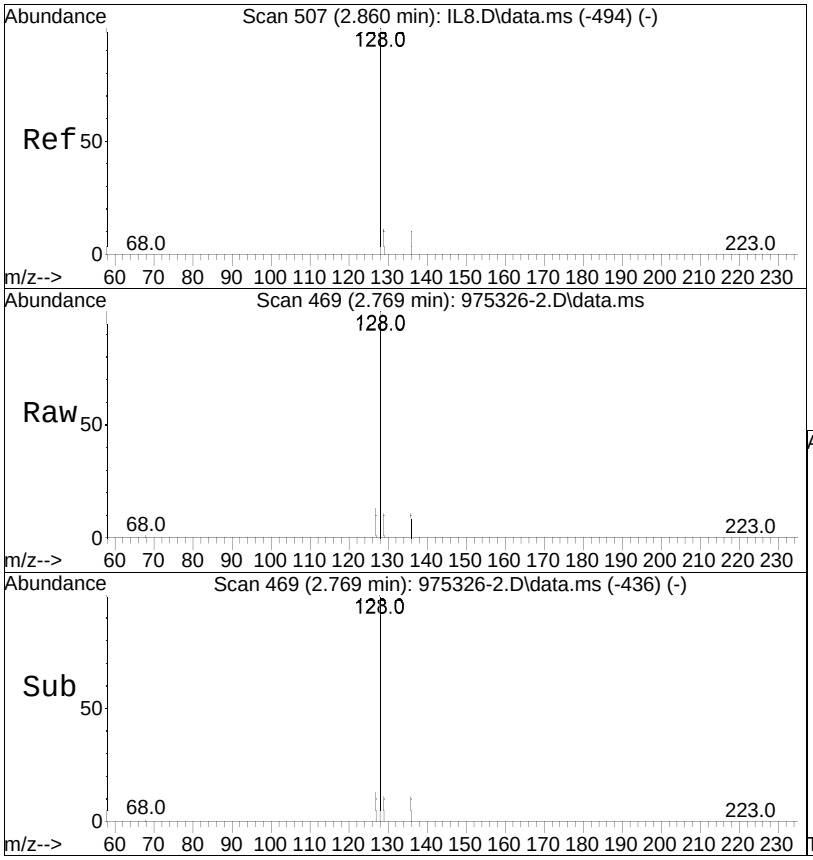


#6
Hexachloroethane
Concen: 1105.98 ng/ml
RT: 2.357 min Scan# 322
Delta R.T. 0.005 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:117 Resp: 32557

Ion	Ratio	Lower	Upper
117	100		
201	105.4	76.6	115.0

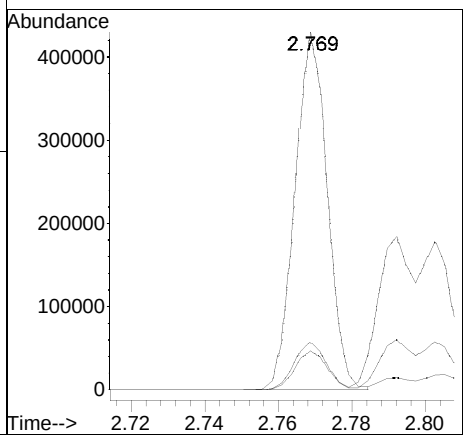


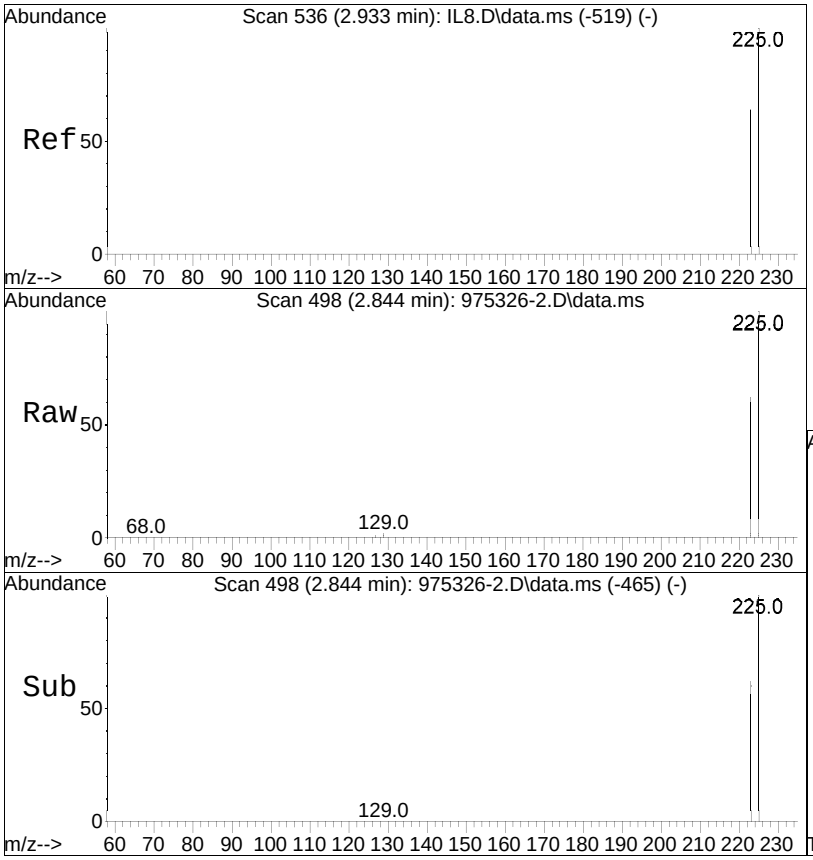


#9
Naphthalene
Concen: 1128.19 ng/ml
RT: 2.769 min Scan# 469
Delta R.T. 0.005 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:128 Resp: 260242

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.4	0.0	0.0#

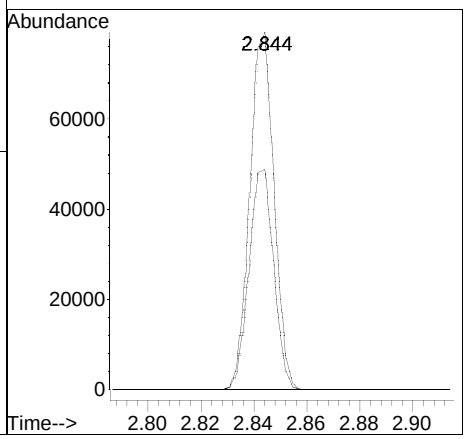


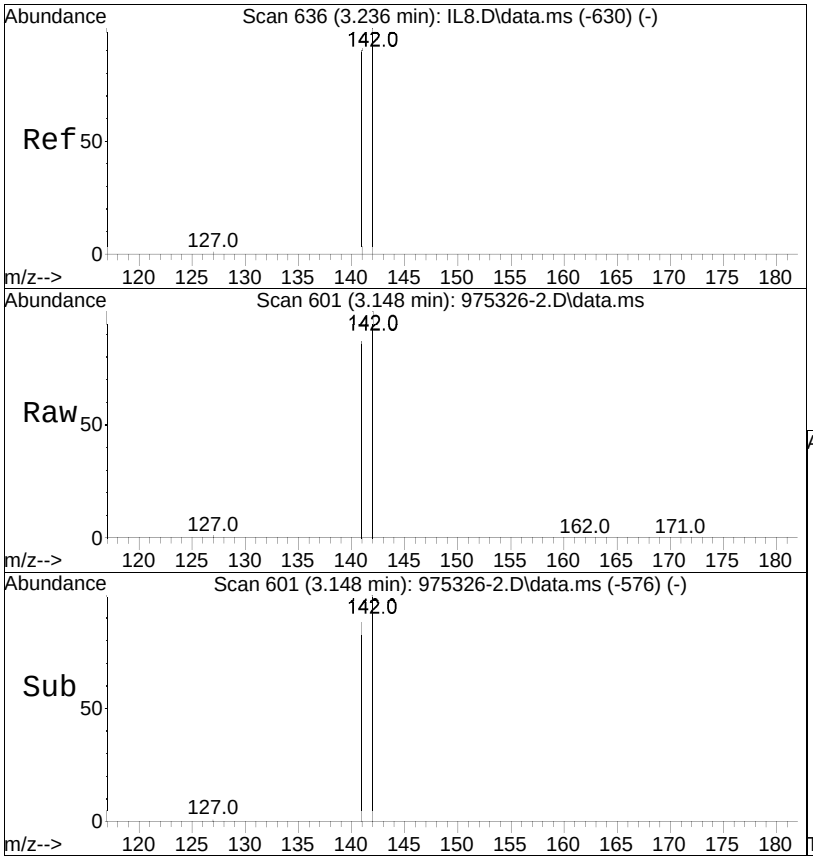


#10
Hexachlorobutadiene
Concen: 1246.64 ng/ml
RT: 2.844 min Scan# 498
Delta R.T. 0.005 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:225 Resp: 49396

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.4	75.6

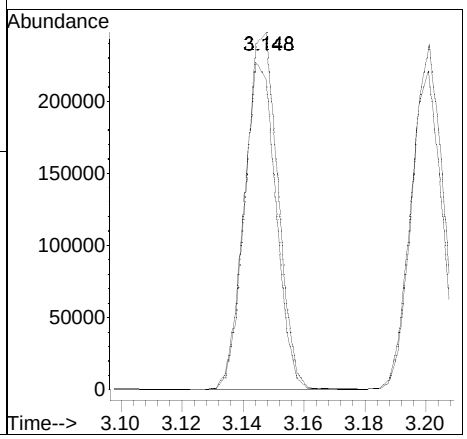


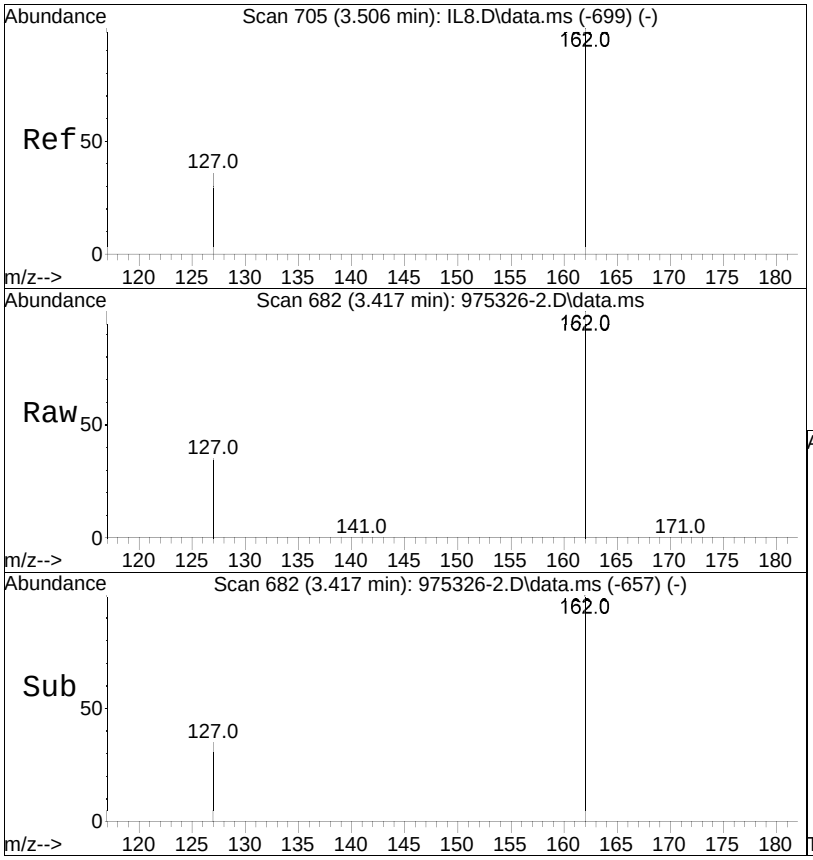


#11
2-Methylnaphthalene
Concen: 1244.65 ng/ml
RT: 3.148 min Scan# 601
Delta R.T. 0.004 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:142 Resp: 182238

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.0	109.4

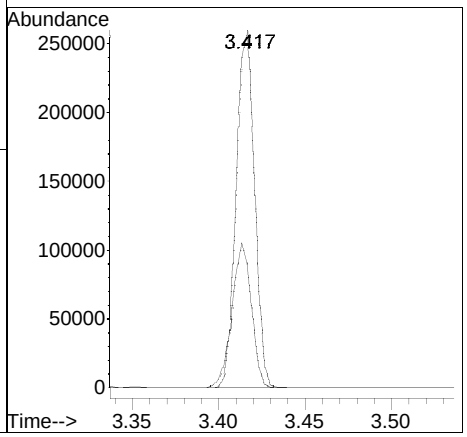


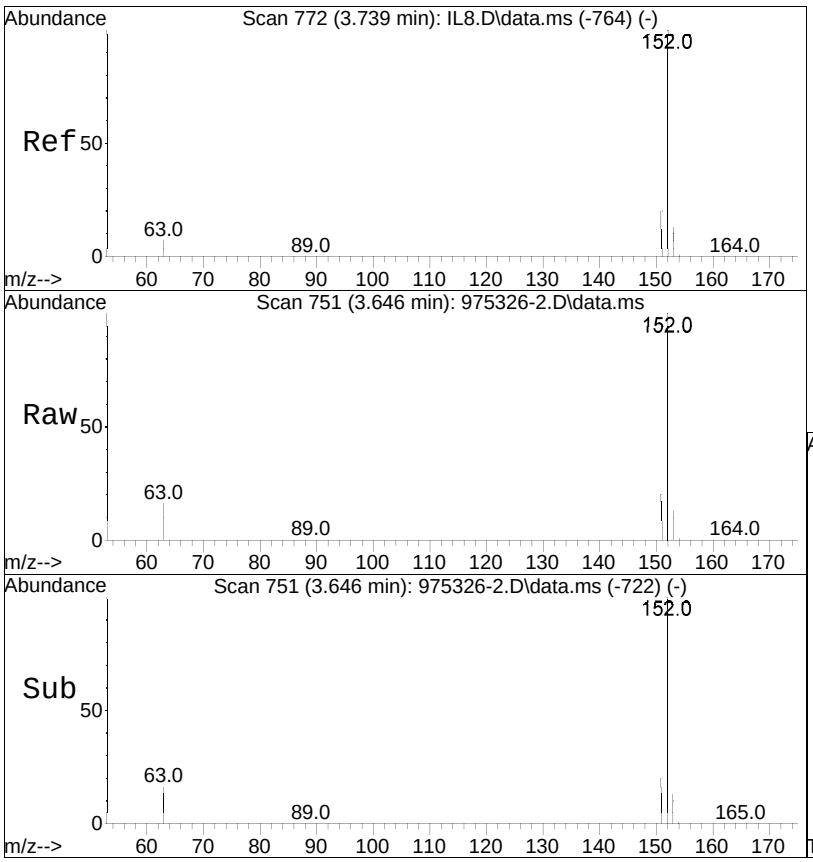


#14
2-Chloronaphthalene
Concen: 1263.28 ng/ml
RT: 3.417 min Scan# 682
Delta R.T. 0.004 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:162 Resp: 187933

Ion	Ratio	Lower	Upper
162	100		
127	43.0	30.9	46.3

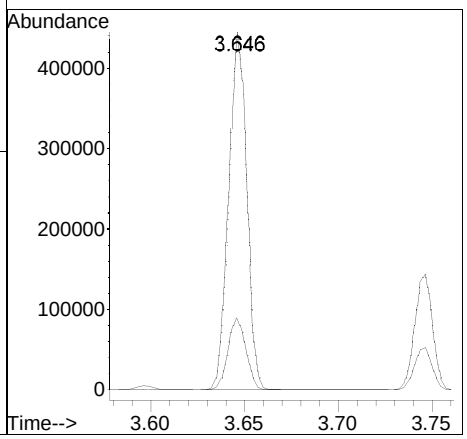


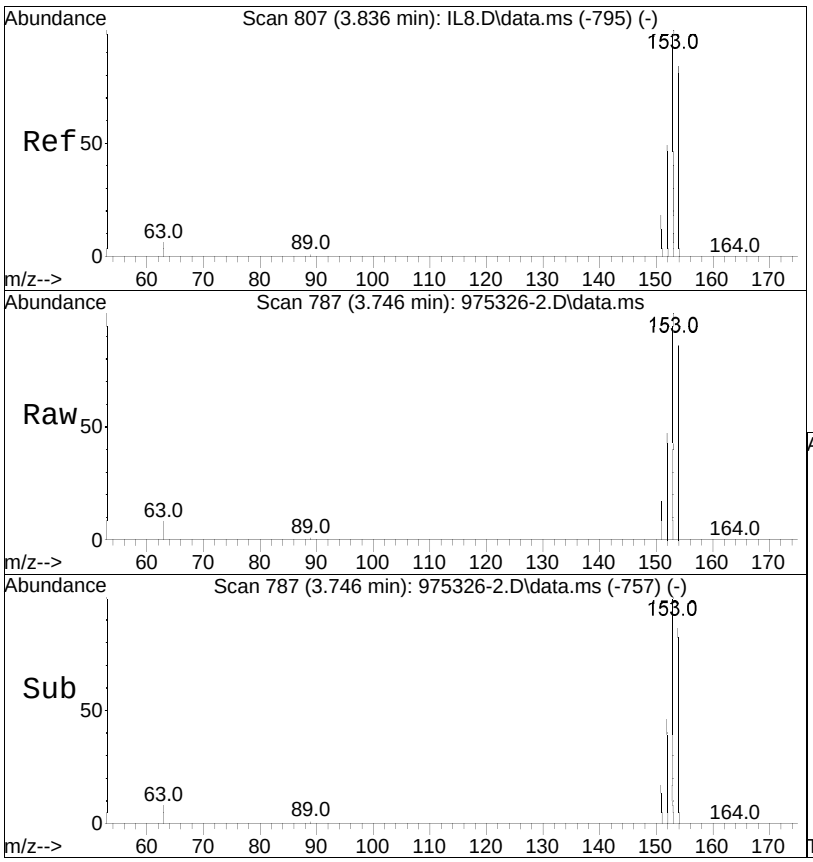


#16
Acenaphthylene
Concen: 1380.16 ng/ml
RT: 3.646 min Scan# 751
Delta R.T. 0.003 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:152 Resp: 294758

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.3	24.5

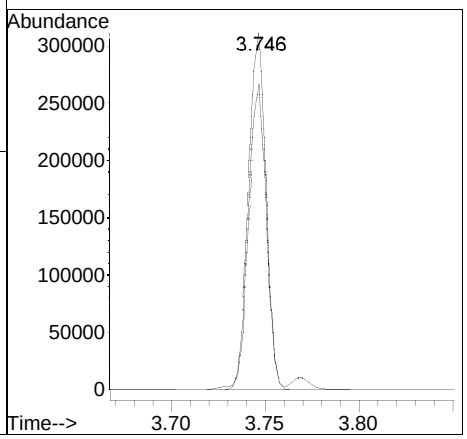


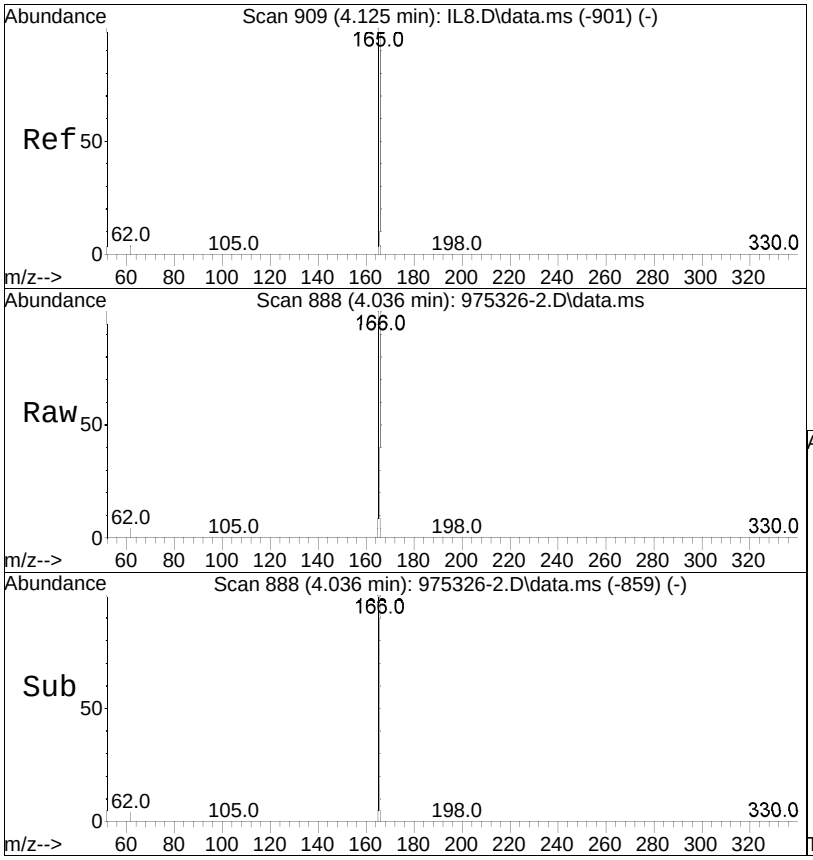


#18
Acenaphthene
Concen: 1210.79 ng/ml
RT: 3.746 min Scan# 787
Delta R.T. 0.003 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:153 Resp: 201645

Ion	Ratio	Lower	Upper
153	100		
154	86.0	72.3	108.5

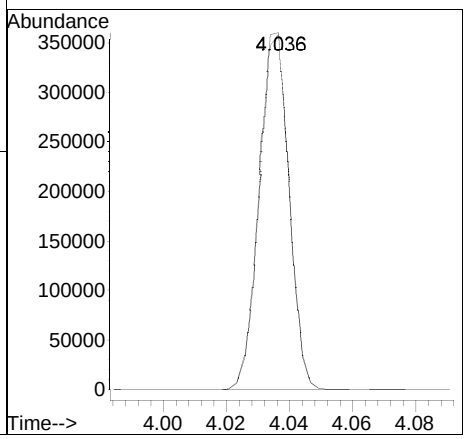


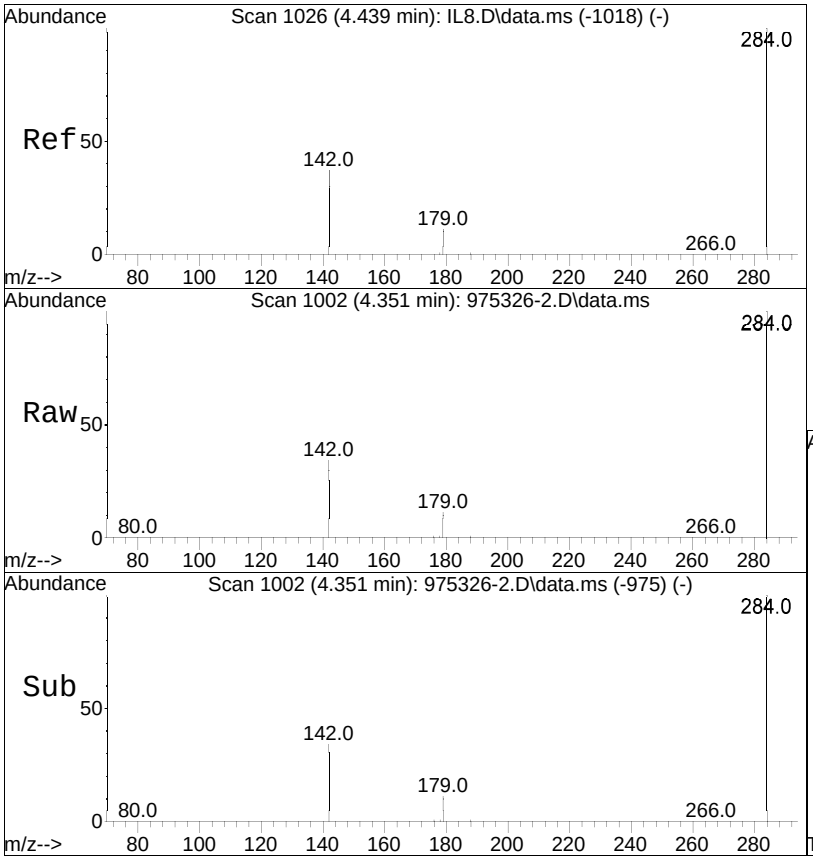


#20
Fluorene
Concen: 1266.45 ng/ml
RT: 4.036 min Scan# 888
Delta R.T. 0.003 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:166 Resp: 233718

Ion	Ratio	Lower	Upper
166	100		
165	101.5	81.5	122.3

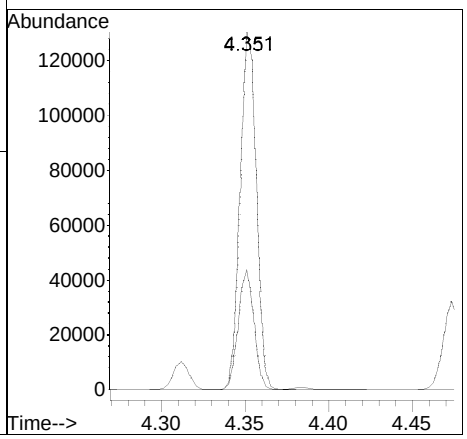


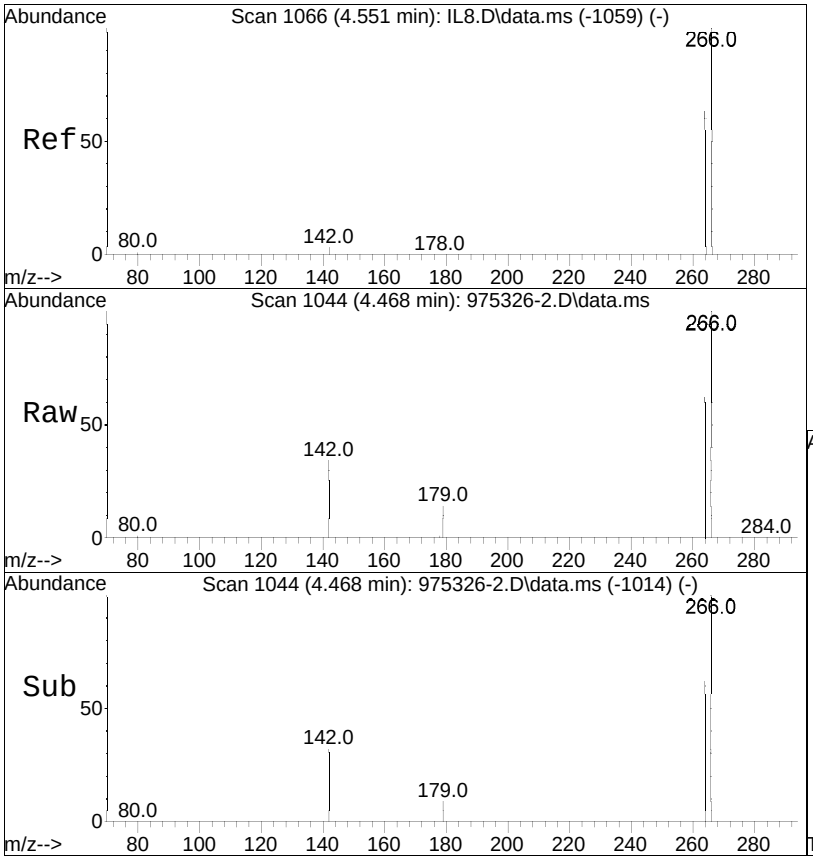


#24
Hexachlorobenzene
Concen: 1341.29 ng/ml
RT: 4.351 min Scan# 1002
Delta R.T. 0.001 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:284 Resp: 86835

Ion	Ratio	Lower	Upper
284	100		
142	32.8	29.4	44.2

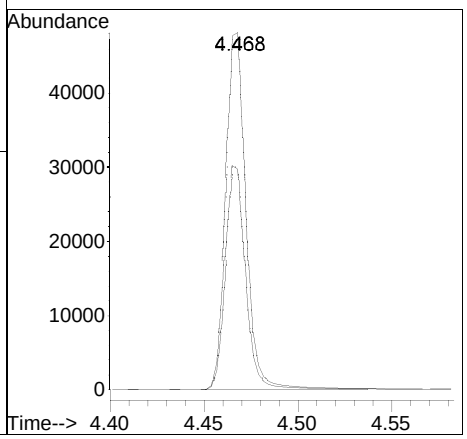


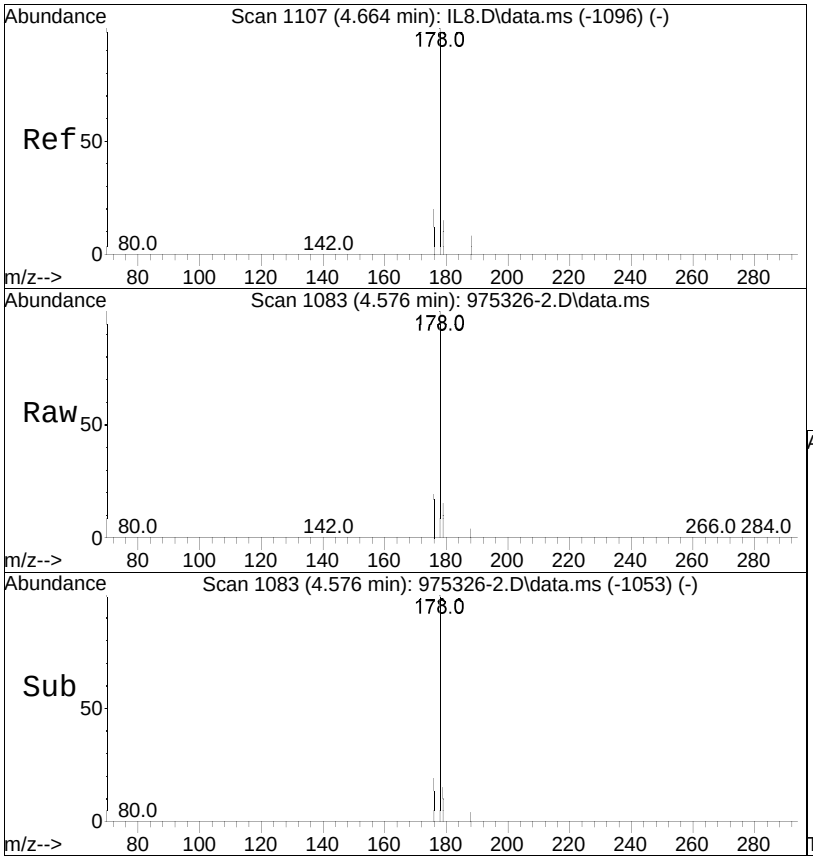


#25
Pentachlorophenol
Concen: 1179.89 ng/ml
RT: 4.468 min Scan# 1044
Delta R.T. 0.003 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:266 Resp: 35857

Ion	Ratio	Lower	Upper
266	100		
264	63.0	50.2	75.4

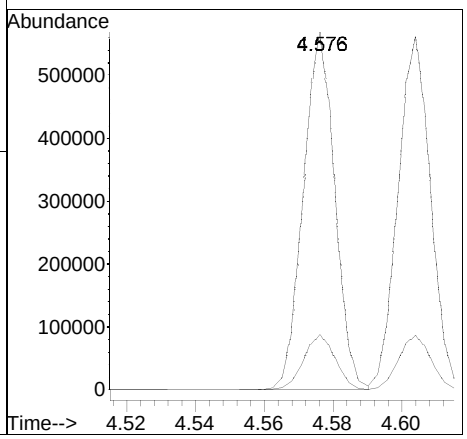


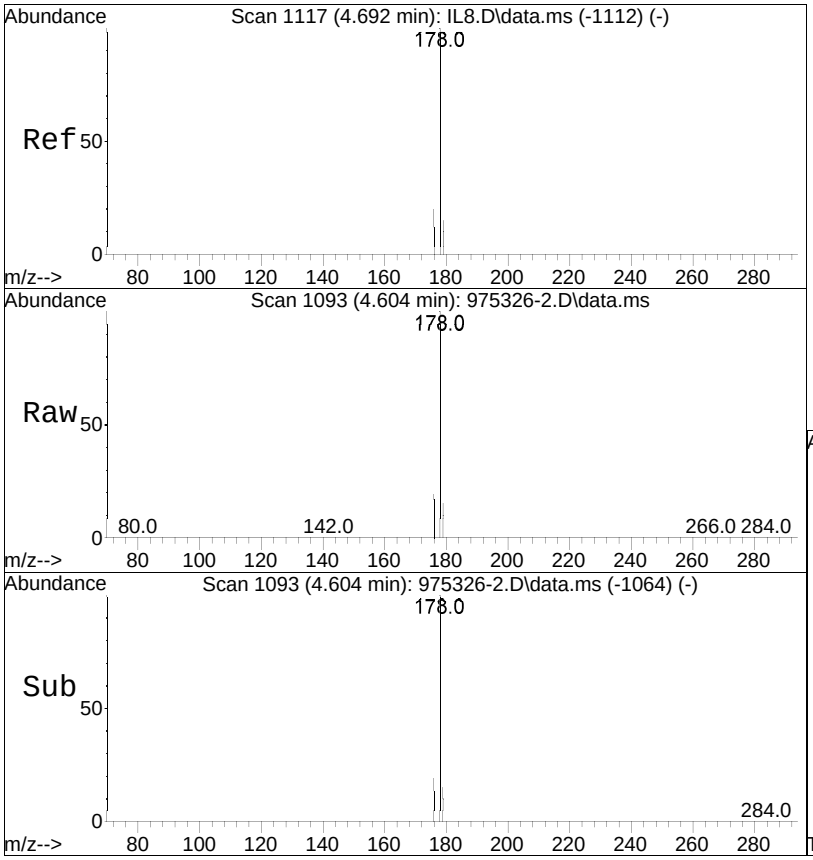


#26
Phenanthrene
Concen: 1318.05 ng/ml
RT: 4.576 min Scan# 1083
Delta R.T. 0.003 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:178 Resp: 361369

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

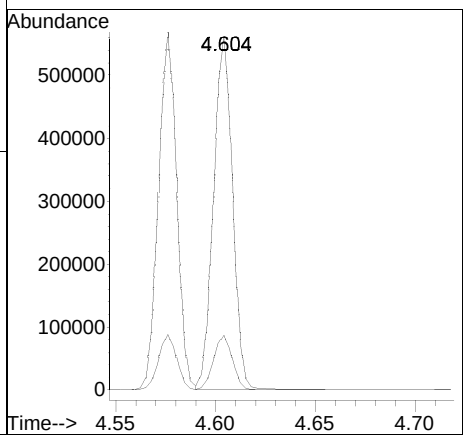


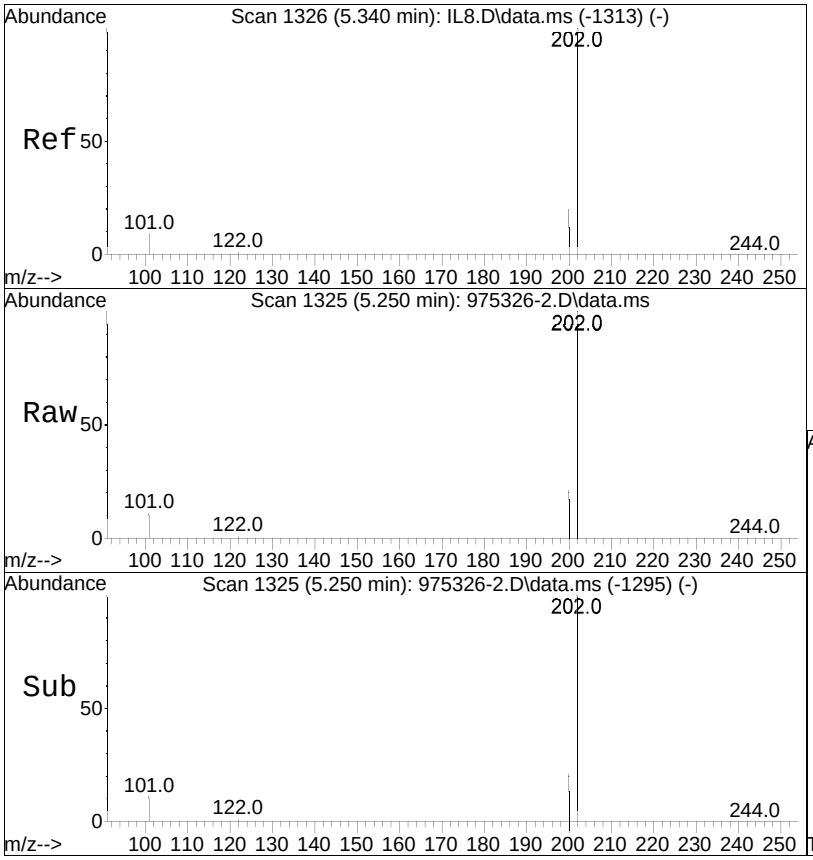


#27
Anthracene
Concen: 1402.30 ng/ml
RT: 4.604 min Scan# 1093
Delta R.T. 0.001 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:178 Resp: 370931

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.3	18.5

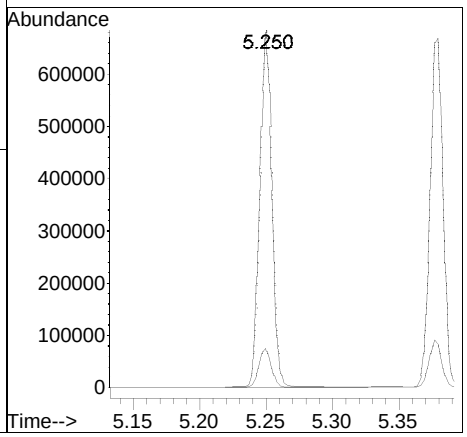


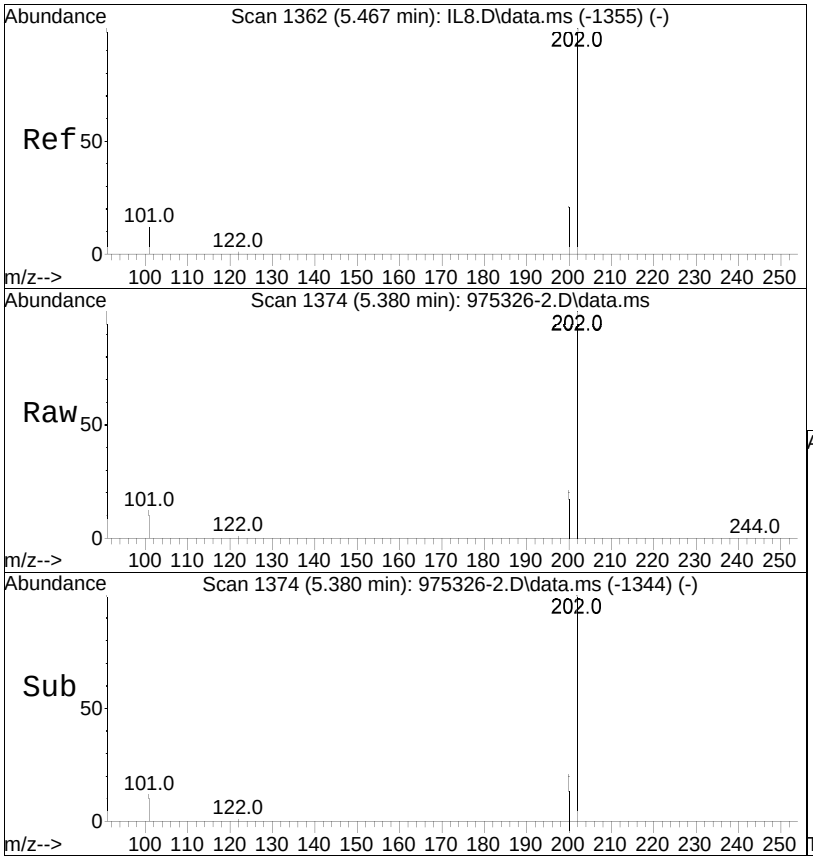


#28
Fluoranthene
Concen: 1478.53 ng/ml
RT: 5.250 min Scan# 1325
Delta R.T. -0.002 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:202 Resp: 438002

Ion	Ratio	Lower	Upper
202	100		
101	11.3	8.7	13.1

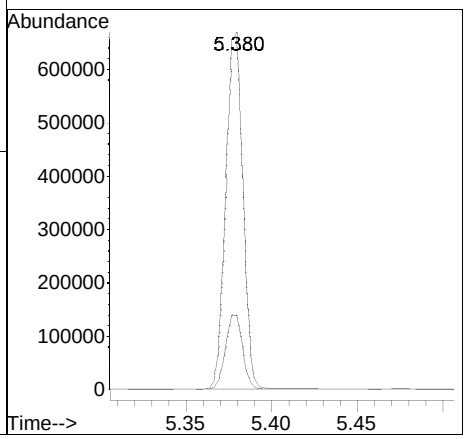


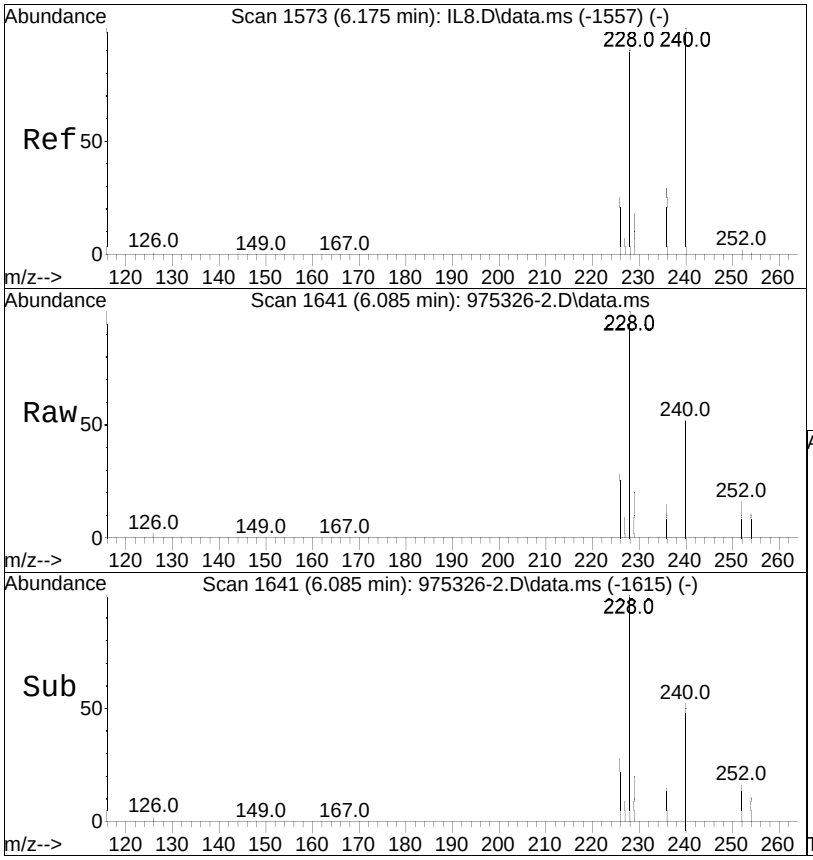


#29
Pyrene
Concen: 1476.61 ng/ml
RT: 5.380 min Scan# 1374
Delta R.T. -0.002 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:202 Resp: 455739

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.4	26.2

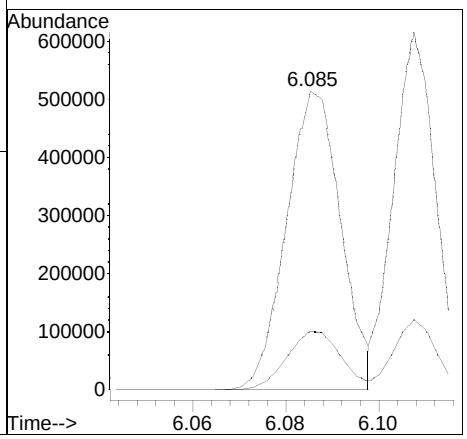


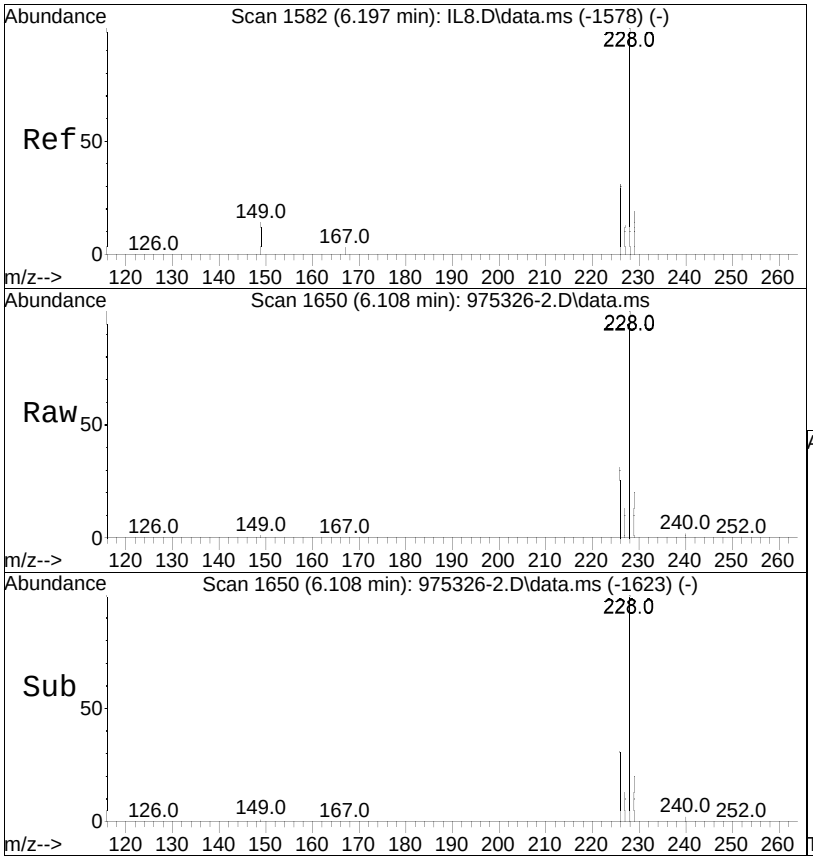


#32
Benzo[a]anthracene
Concen: 1371.66 ng/ml
RT: 6.085 min Scan# 1641
Delta R.T. -0.017 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:228 Resp: 418052

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.8	23.6

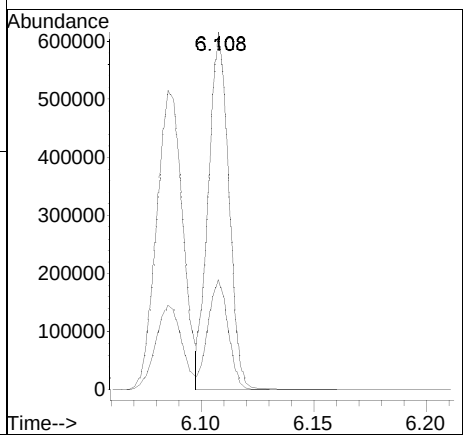


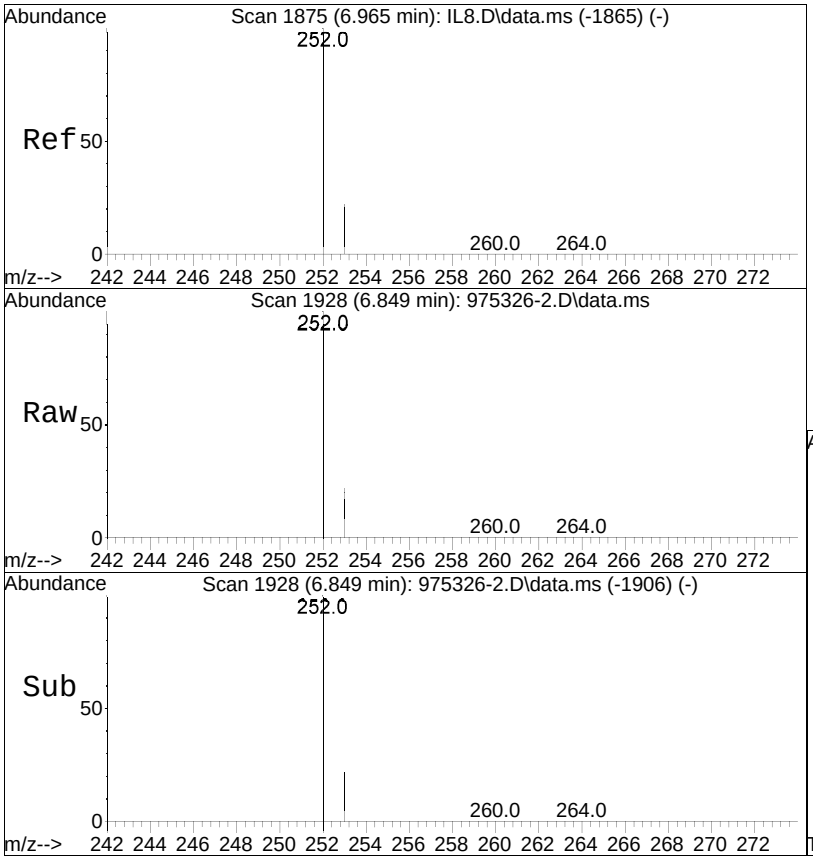


#34
Chrysene
Concen: 1317.93 ng/ml
RT: 6.108 min Scan# 1650
Delta R.T. -0.014 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:228 Resp: 386476

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.7	38.5

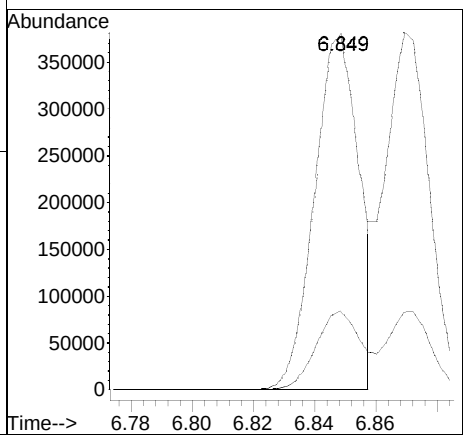


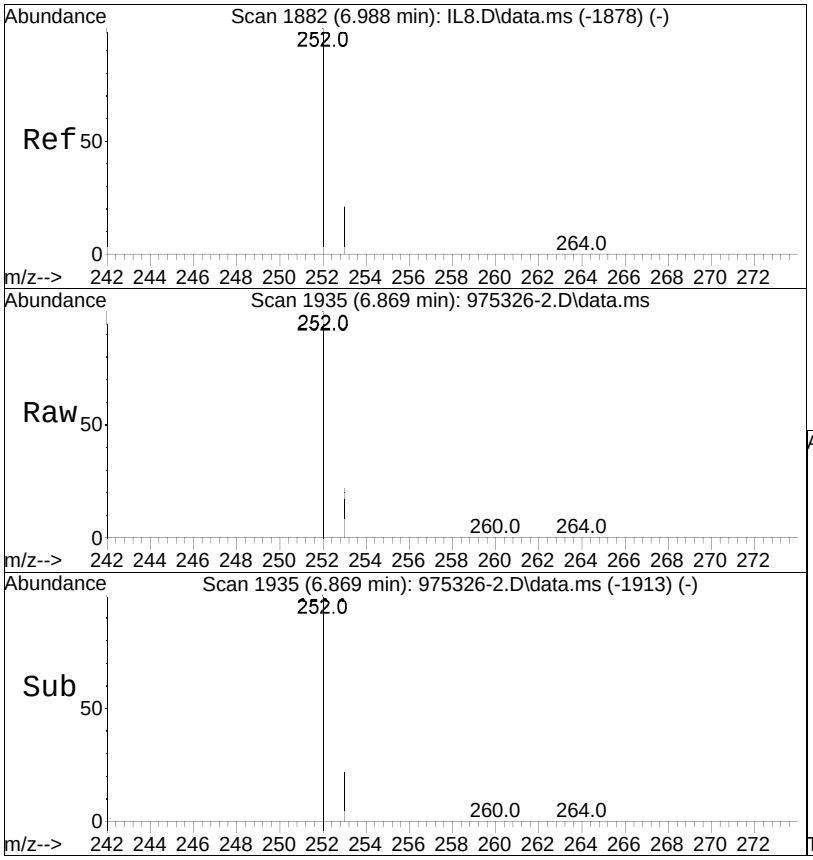


#37
Benzo[b]fluoranthene
Concen: 1445.01 ng/ml
RT: 6.849 min Scan# 1928
Delta R.T. -0.015 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:252 Resp: 384150

Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.3	25.9

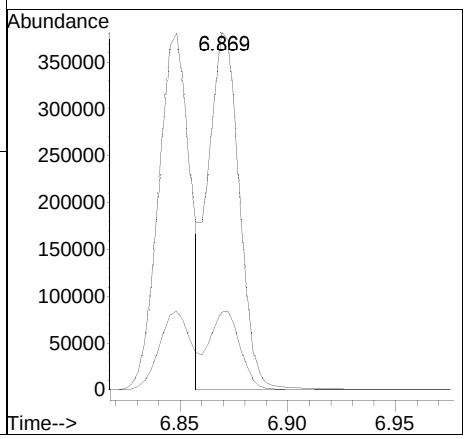


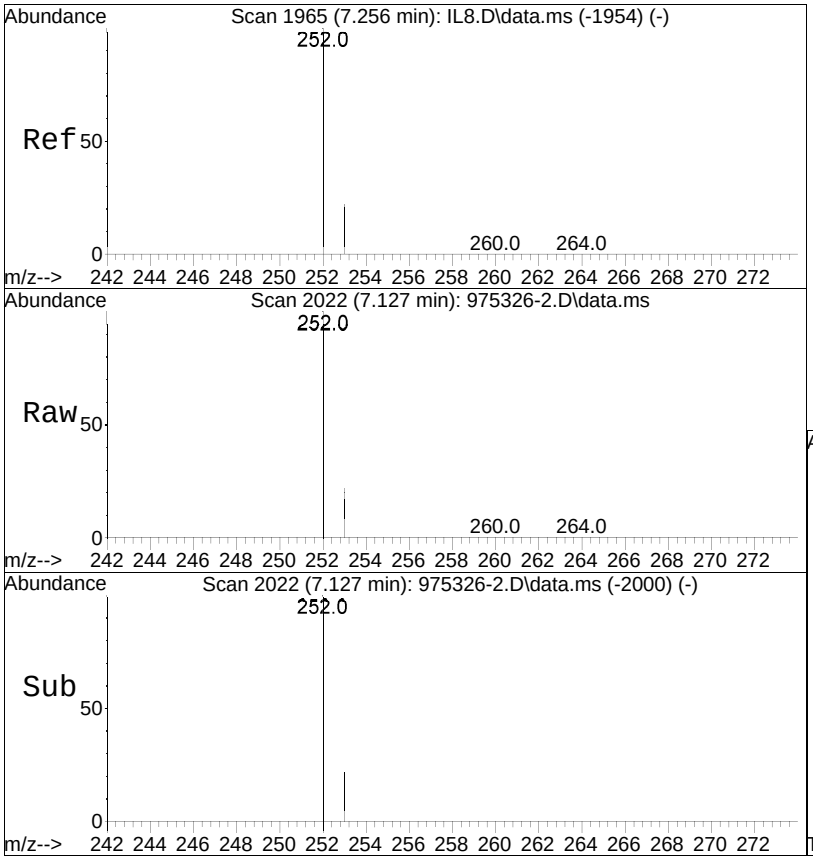


#38
Benzo[k]fluoranthene
Concen: 1531.27 ng/ml
RT: 6.869 min Scan# 1935
Delta R.T. -0.015 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:252 Resp: 383533

Ion	Ratio	Lower	Upper
252	100		
253	20.5	17.6	26.4

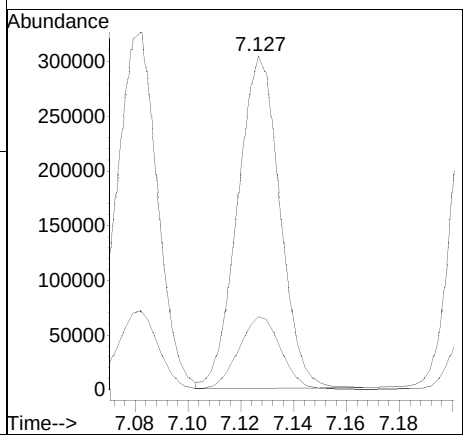


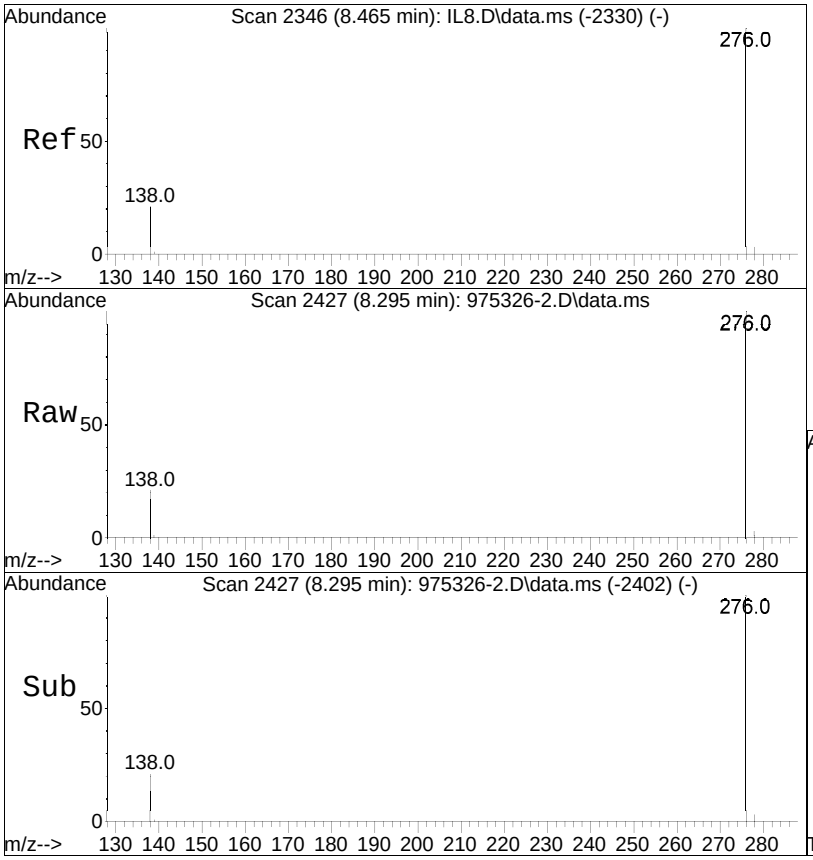


#39
Benzo[a]pyrene
Concen: 1582.40 ng/ml
RT: 7.127 min Scan# 2022
Delta R.T. -0.015 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:252 Resp: 336431

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

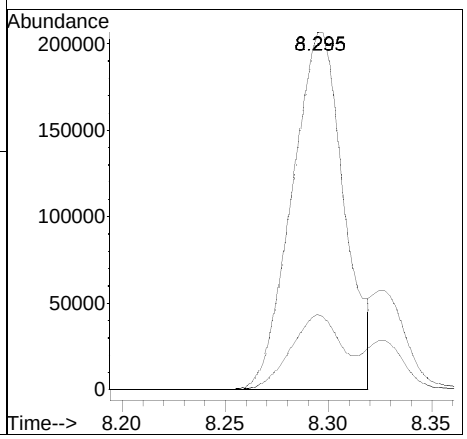


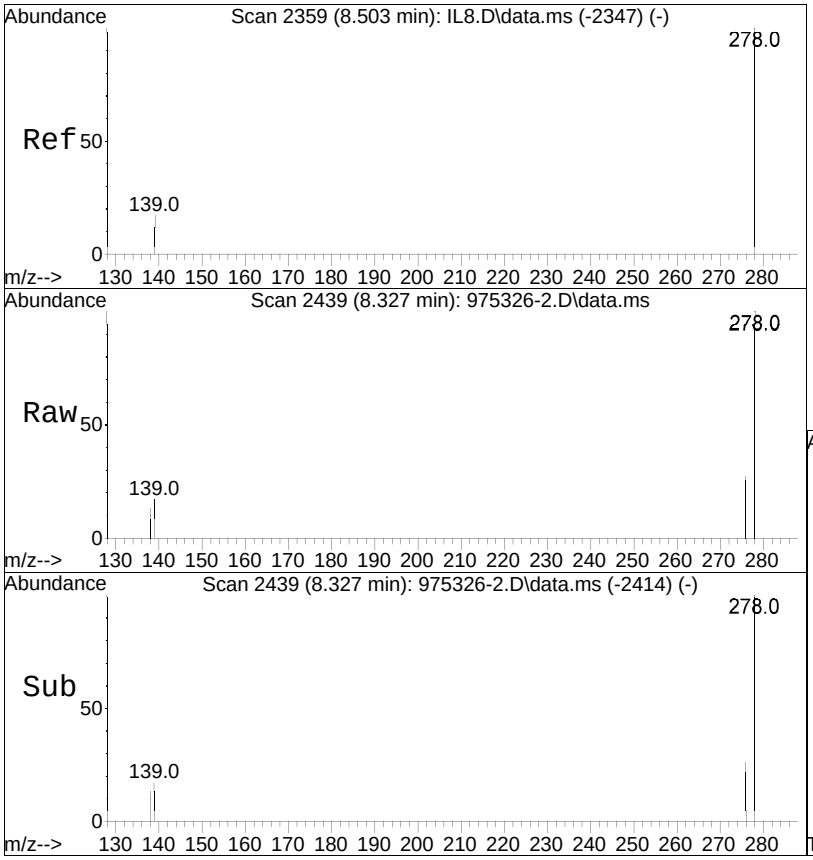


#40
Indeno[1,2,3-cd]pyrene
Concen: 1804.32 ng/ml
RT: 8.295 min Scan# 2427
Delta R.T. -0.013 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:276 Resp: 359462

Ion	Ratio	Lower	Upper
276	100		
138	20.0	17.2	25.8

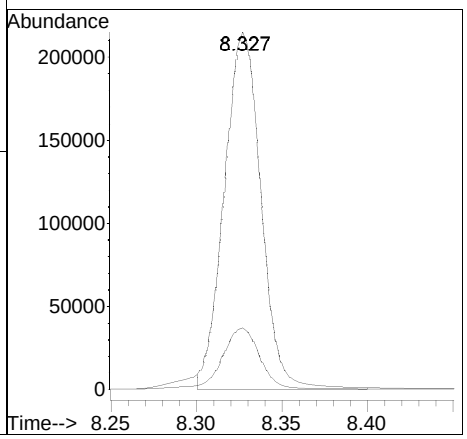


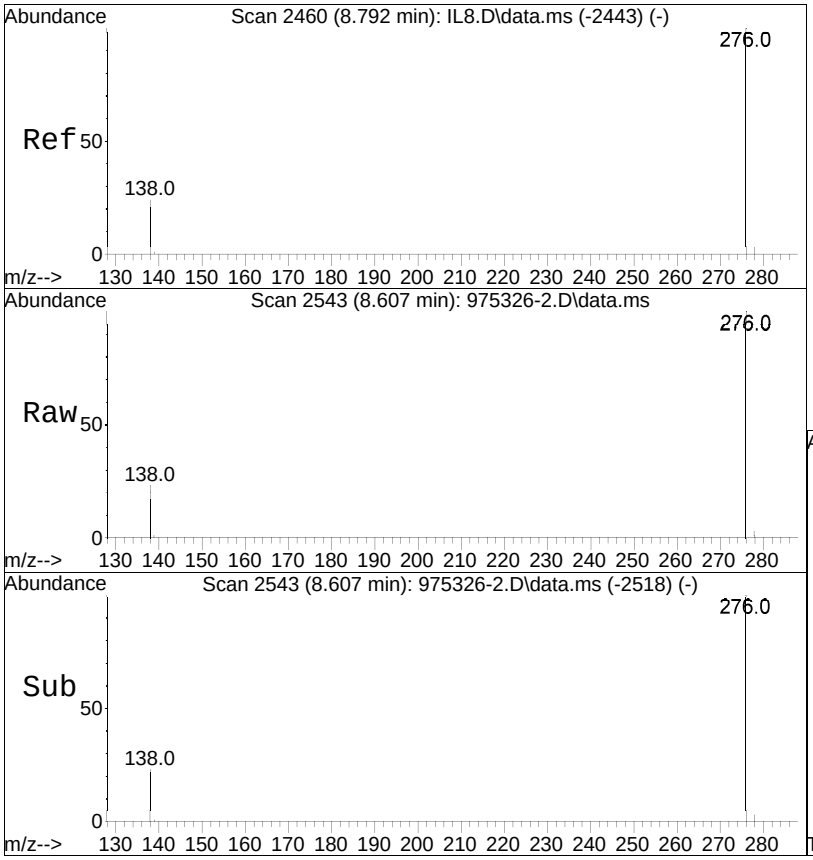


#41
Dibenzo[a,h]anthracene
Concen: 1706.56 ng/ml M6
RT: 8.327 min Scan# 2439
Delta R.T. -0.013 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:278 Resp: 319071

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.7	22.1

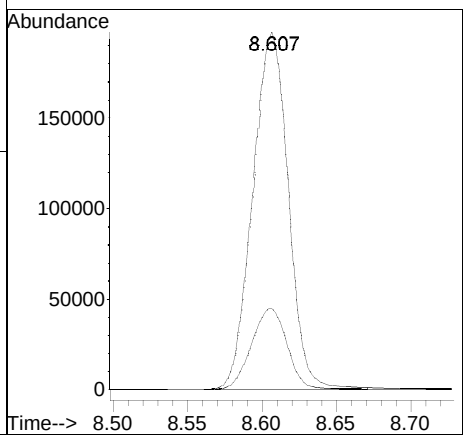




#42
Benzo[g,h,i]perylene
Concen: 1590.09 ng/ml
RT: 8.607 min Scan# 2543
Delta R.T. -0.013 min
Lab File: 975326-2.D
Acq: 24 Sep 2024 05:27 pm

Tgt Ion:276 Resp: 323807

Ion	Ratio	Lower	Upper
276	100		
138	22.9	19.0	28.4

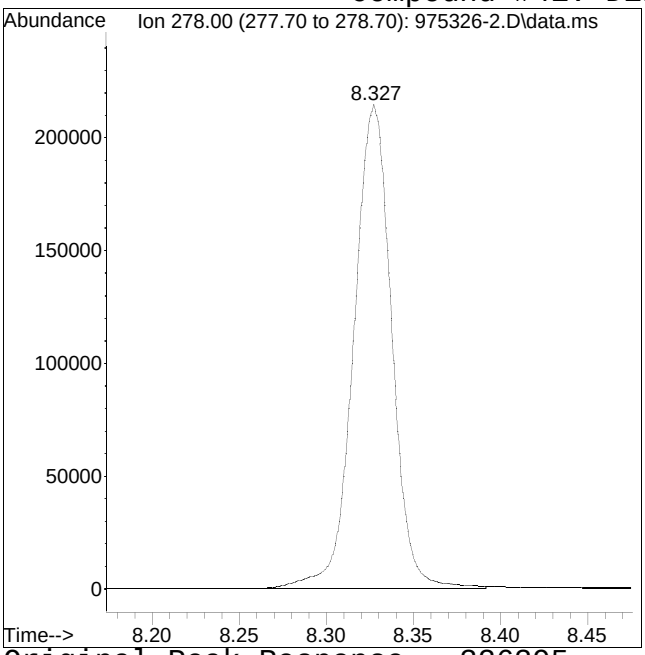


Manual Integration Report

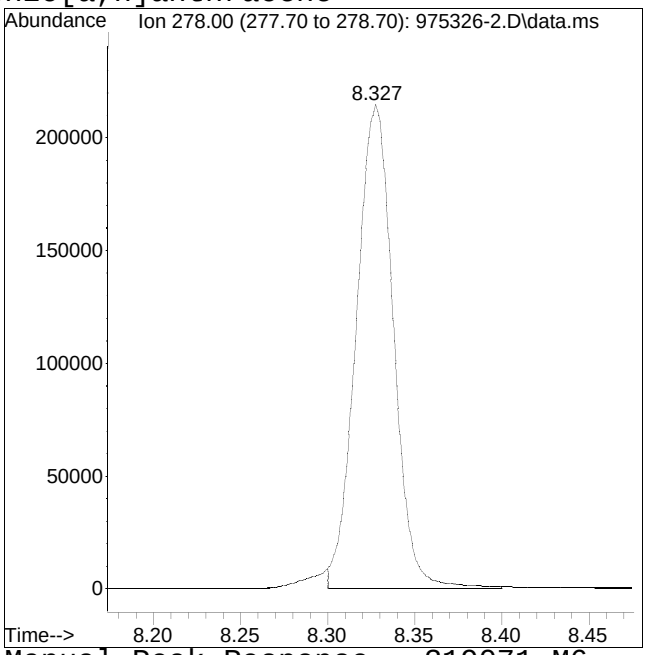
Data Path : I:\8270SIM\sv120\240924RVTQ
Data File : 975326-2.D
Date Inj'd : 9/24/2024 5:27 pm
Sample : WG1975326-2,32,,kmh

Method : SIM-RVT_240728_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/24/2024 5:40 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 326395



Manual Peak Response = 319071 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 975326-3.D
Acq On : 24 Sep 2024 05:43 pm
Operator : SV120:mrg
Sample : WG1975326-3,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 18:33:06 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.106	152	203488	4000.000	ng/ml	0.00
Standard Area 1 = 198000			Recovery	= 102.77%		
8) Naphthalene-d8	2.758	136	779013	4000.000	ng/ml	# 0.00
Standard Area 1 = 762436			Recovery	= 102.17%		
17) Acenaphthene-d10	3.730	164	441501	4000.000	ng/ml	0.00
Standard Area 1 = 445852			Recovery	= 99.02%		
22) Phenanthrene-d10	4.563	188	898968	4000.000	ng/ml	0.00
Standard Area 1 = 924365			Recovery	= 97.25%		
31) Chrysene-d12	6.092	240	806160	4000.000	ng/ml	-0.02
Standard Area 1 = 850035			Recovery	= 94.84%		
36) Perylene-d12	7.185	264	791398	4000.000	ng/ml	-0.02
Standard Area 1 = 833768			Recovery	= 94.92%		
System Monitoring Compounds						
2) 2-Fluorophenol	1.549	112	57733	955.176	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 47.76%		
3) Phenol-d6	1.930	99	53211	723.723	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 36.19%		
7) Nitrobenzene-d5	2.382	82	46594	778.650	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 77.86%		
13) 2-Fluorobiphenyl	3.354	172	111996	667.143	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 66.71%		
21) 2,4,6-Tribromophenol	4.172	330	41360	1701.593	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 85.08%		
30) 4-Terphenyl-d14	5.476	244	141150	749.732	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery	= 37.49%		
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.973	93	83223	1244.005	ng/ml	85
6) Hexachloroethane	2.356	117	32991	1155.721	ng/ml	90
9) Naphthalene	2.768	128	262776	1174.689	ng/ml#	100
10) Hexachlorobutadiene	2.844	225	50042	1302.317	ng/ml	100
11) 2-Methylnaphthalene	3.145	142	183960	1295.583	ng/ml	100
14) 2-Chloronaphthalene	3.417	162	189951	1316.648	ng/ml	93
16) Acenaphthylene	3.647	152	296608	1432.119	ng/ml	99
18) Acenaphthene	3.747	153	202130	1269.546	ng/ml	96
20) Fluorene	4.035	166	235602	1335.393	ng/ml	99
24) Hexachlorobenzene	4.352	284	87326	1385.403	ng/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 975326-3.D
Acq On : 24 Sep 2024 05:43 pm
Operator : SV120:mrg
Sample : WG1975326-3,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 18:33:06 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv120\240924RVT\ccv0924.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.466	266	55892	1802.025	ng/ml	99
26) Phenanthrene	4.577	178	364470	1365.354	ng/ml	100
27) Anthracene	4.605	178	378597	1470.041	ng/ml	100
28) Fluoranthene	5.251	202	452580	1569.112	ng/ml	99
29) Pyrene	5.378	202	472020	1570.776	ng/ml	99
32) Benzo[a]anthracene	6.084	228	446602	1466.005	ng/ml	100
34) Chrysene	6.106	228	404437	1379.333	ng/ml	99
37) Benzo[b]fluoranthene	6.845	252	431072	1613.688	ng/ml	100
38) Benzo[k]fluoranthene	6.869	252	384571	1528.002	ng/ml	100
39) Benzo[a]pyrene	7.126	252	360389	1686.905	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.292	276	372963	1863.049	ng/ml	98
41) Dibenzo[a,h]anthracene	8.324	278	339507M6	1807.098	ng/ml	
42) Benzo[g,h,i]perylene	8.604	276	341832	1670.496	ng/ml	99

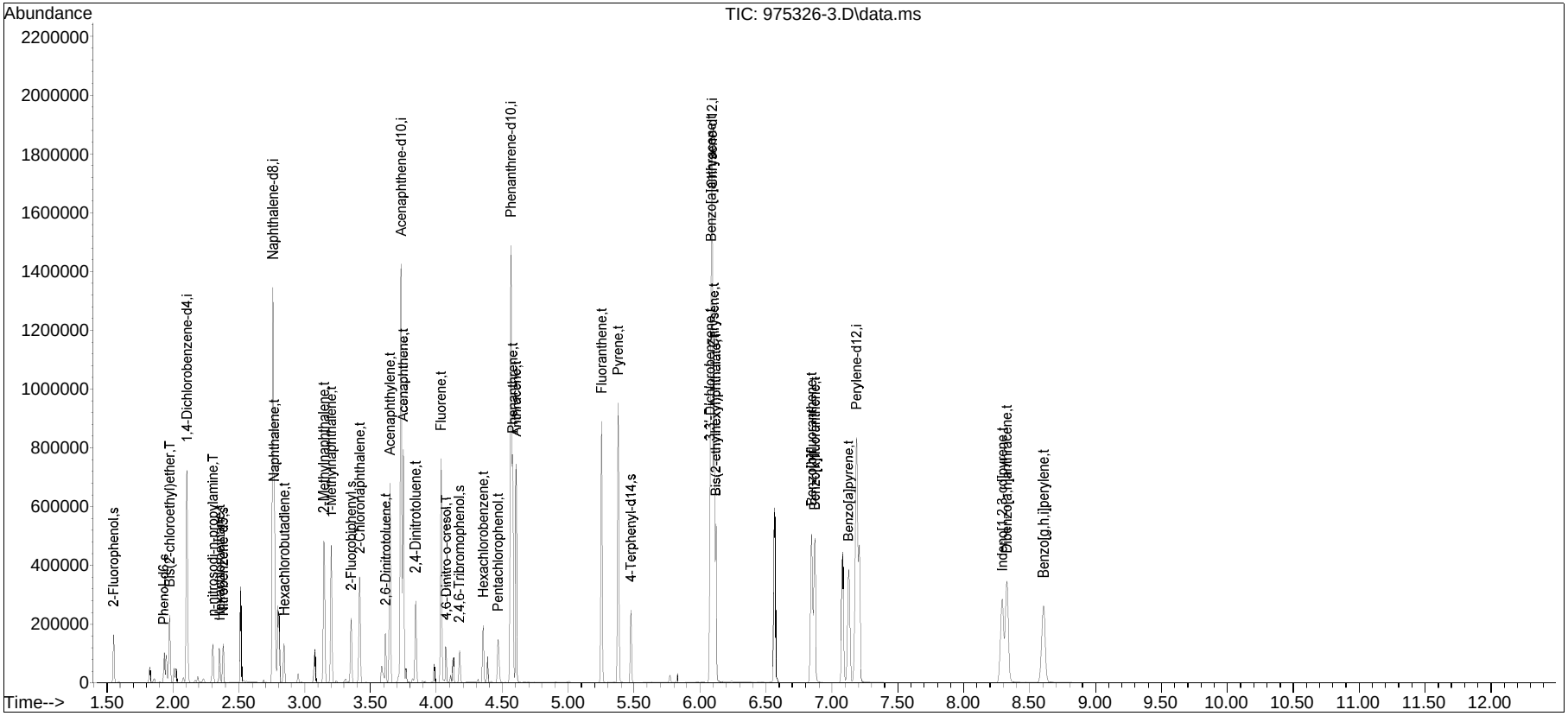
(#) = qualifier out of range (m) = manual integration (+) = signals summed

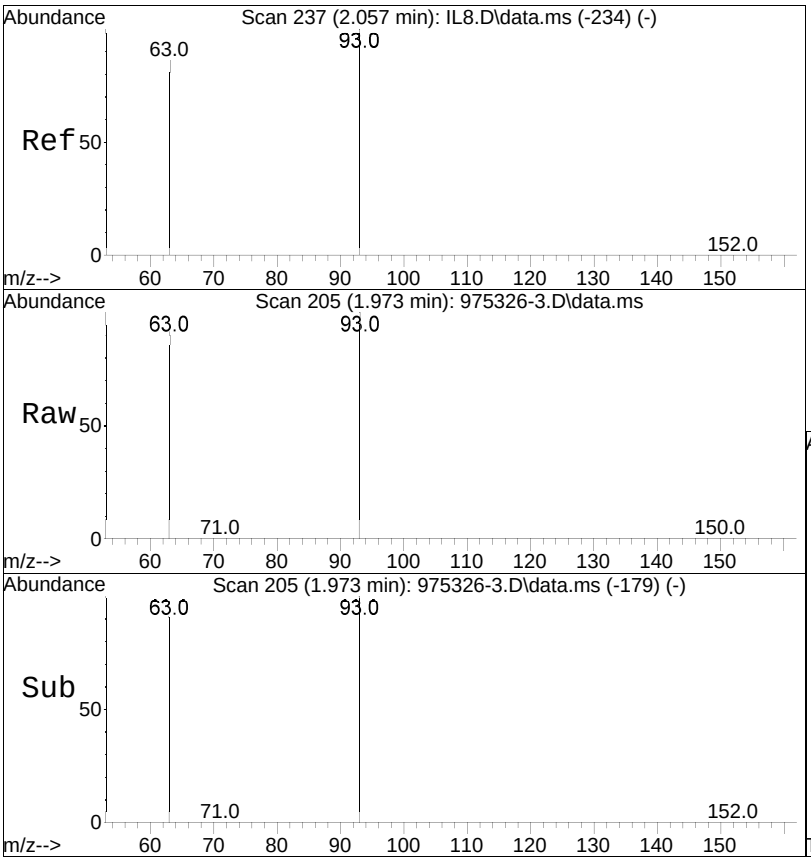
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv120\240924RVT\
Data File : 975326-3.D
Acq On : 24 Sep 2024 05:43 pm
Operator : SV120:mrg
Sample : WG1975326-3,32,,kmh
Misc : WG1975659,WG1975326,ical21368
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 24 18:33:06 2024
Quant Method : I:\8270sim\sv120\240924RVT\SIM-RVT_240728_sv120.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 24 08:36:13 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0924.D•

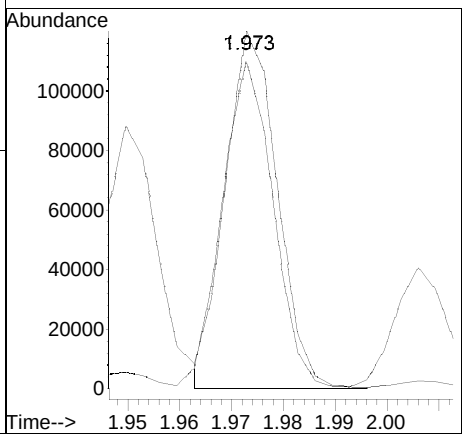


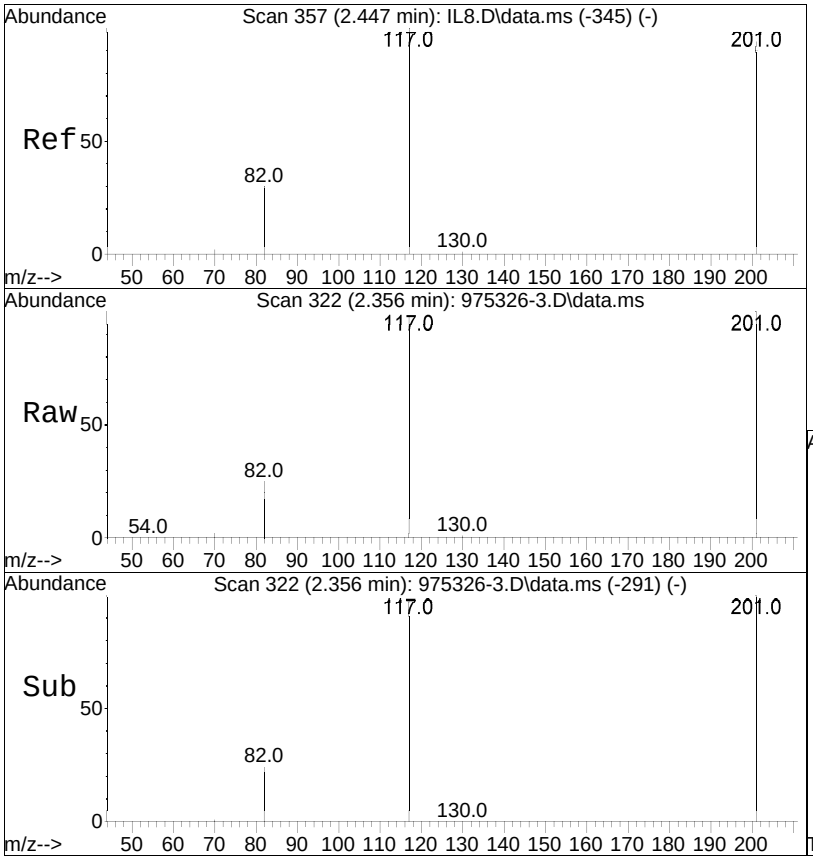


#4
Bis(2-chloroethyl)ether
Concen: 1244.01 ng/ml
RT: 1.973 min Scan# 205
Delta R.T. 0.006 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion: 93 Resp: 83223

Ion	Ratio	Lower	Upper
93	100		
63	90.5	61.8	92.6

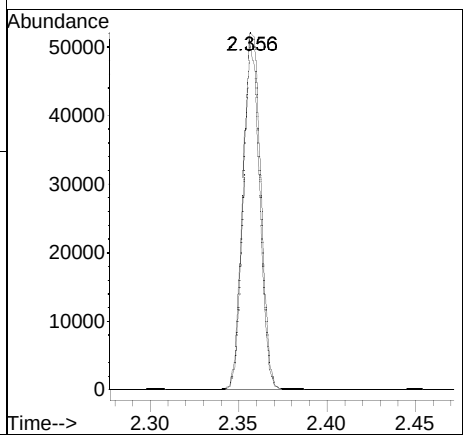


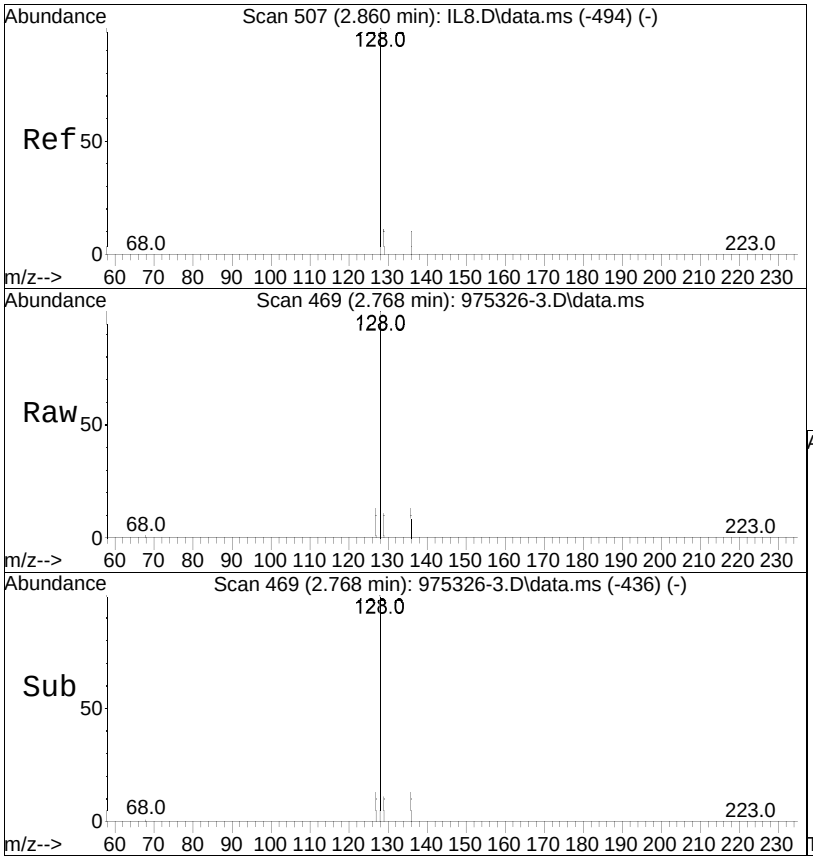


#6
Hexachloroethane
Concen: 1155.72 ng/ml
RT: 2.356 min Scan# 322
Delta R.T. 0.005 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:117 Resp: 32991

Ion	Ratio	Lower	Upper
117	100		
201	105.2	76.6	115.0

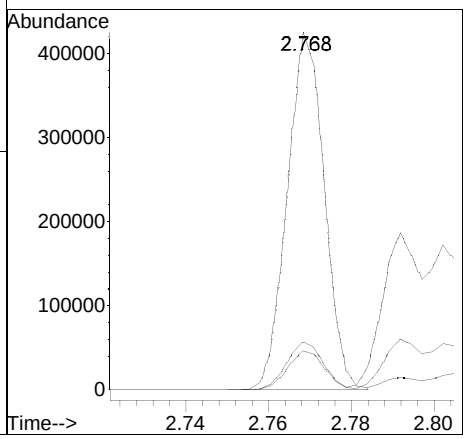


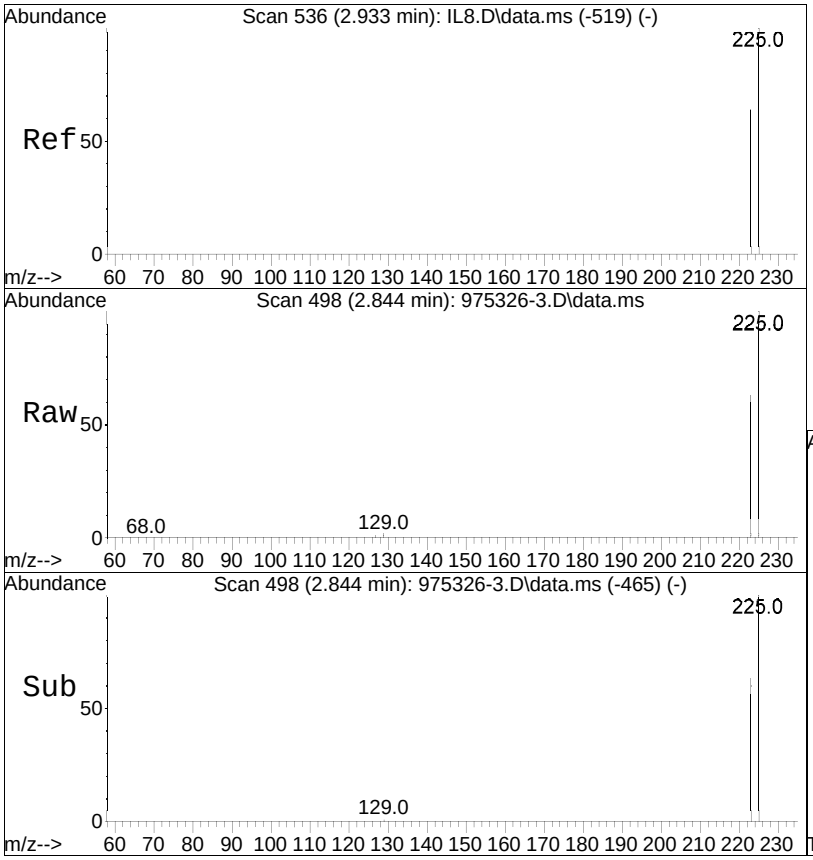


#9
Naphthalene
Concen: 1174.69 ng/ml
RT: 2.768 min Scan# 469
Delta R.T. 0.005 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:128 Resp: 262776

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.3	0.0	0.0#

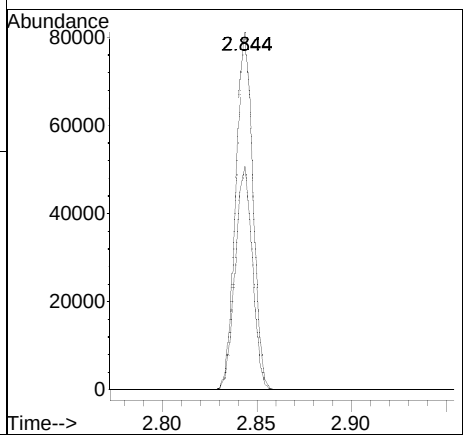


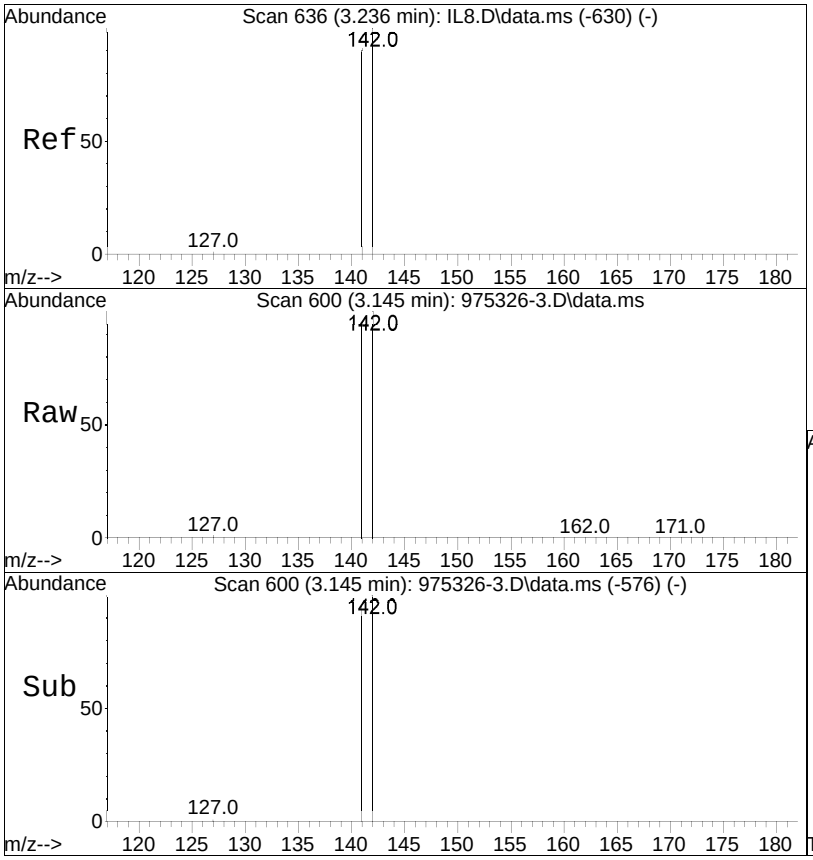


#10
Hexachlorobutadiene
Concen: 1302.32 ng/ml
RT: 2.844 min Scan# 498
Delta R.T. 0.005 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:225 Resp: 50042

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.4	75.6

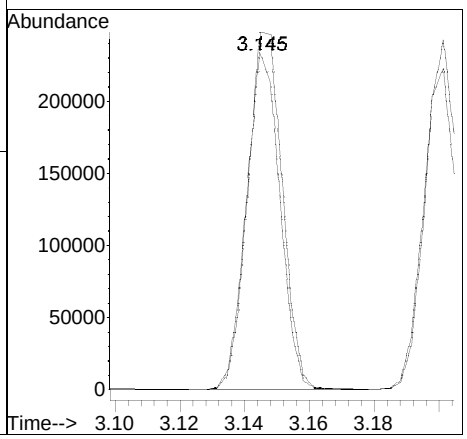


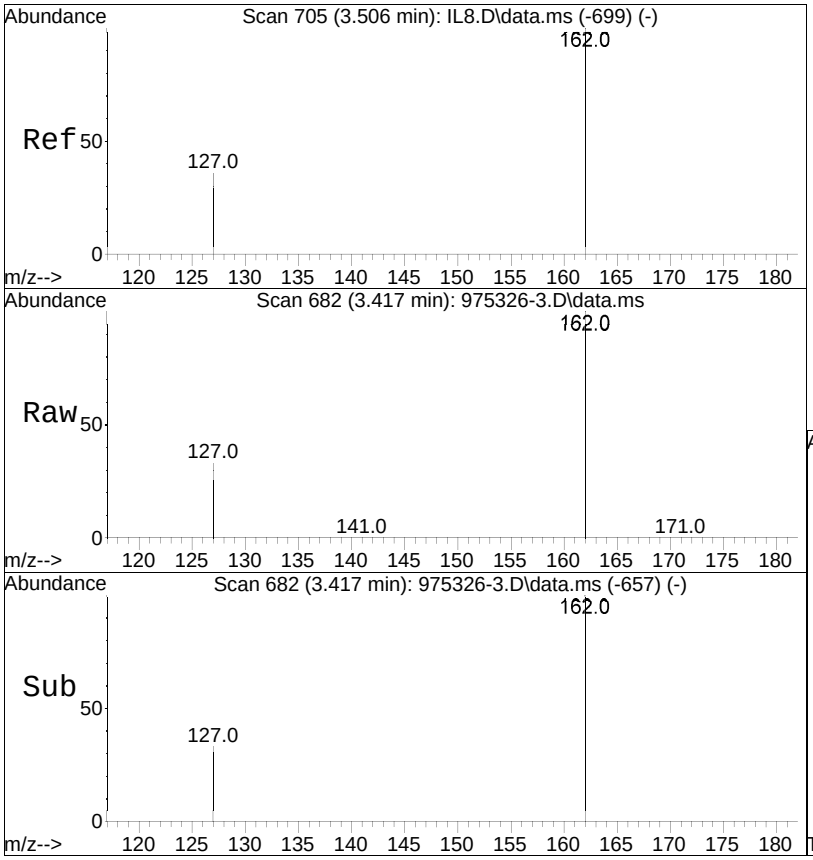


#11
2-Methylnaphthalene
Concen: 1295.58 ng/ml
RT: 3.145 min Scan# 600
Delta R.T. 0.001 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:142 Resp: 183960

Ion	Ratio	Lower	Upper
142	100		
141	91.6	73.0	109.4

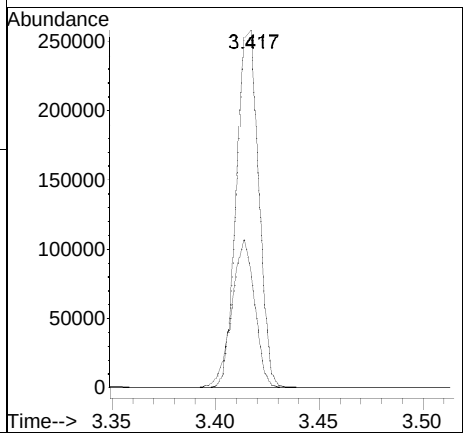


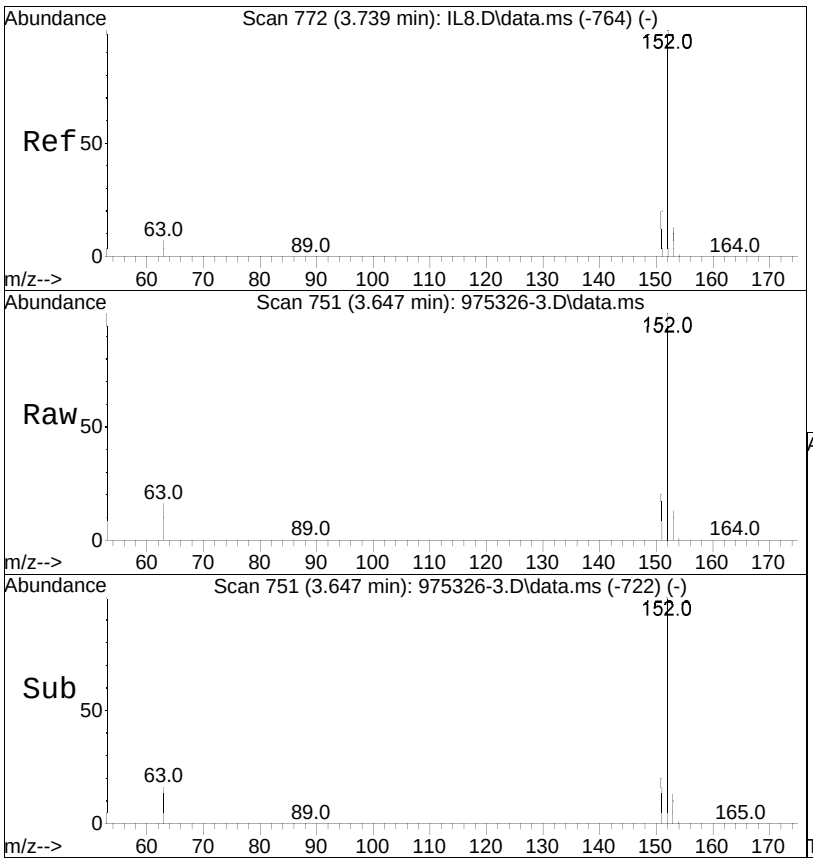


#14
2-Chloronaphthalene
Concen: 1316.65 ng/ml
RT: 3.417 min Scan# 682
Delta R.T. 0.004 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:162 Resp: 189951

Ion	Ratio	Lower	Upper
162	100		
127	42.8	30.9	46.3

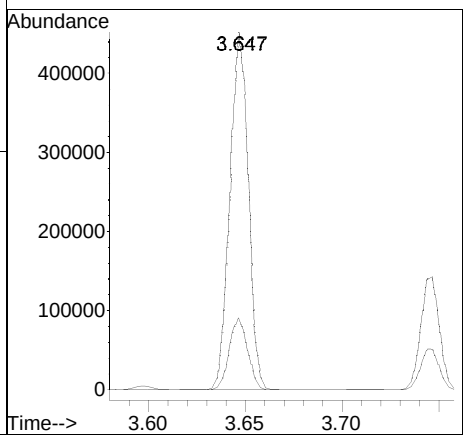


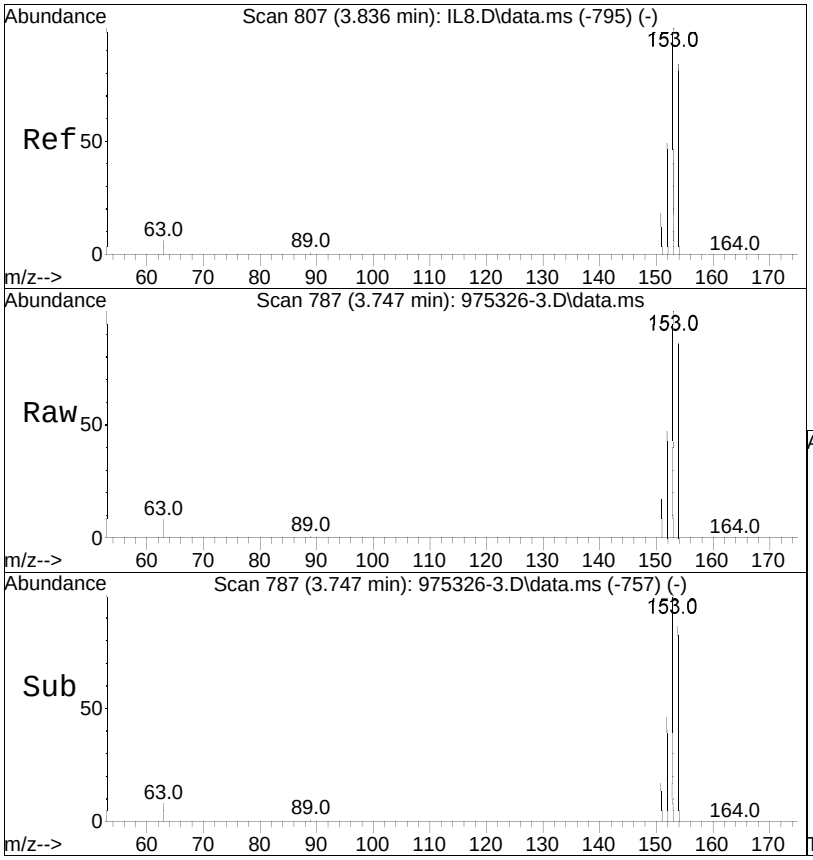


#16
Acenaphthylene
Concen: 1432.12 ng/ml
RT: 3.647 min Scan# 751
Delta R.T. 0.004 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:152 Resp: 296608

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5

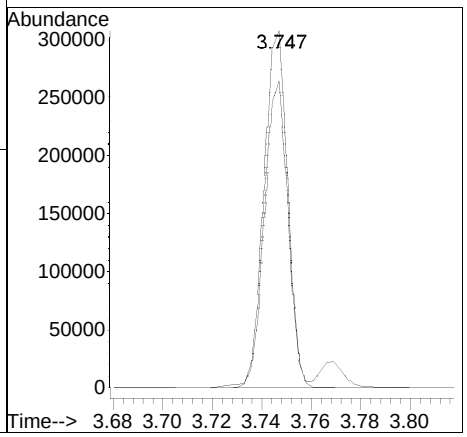


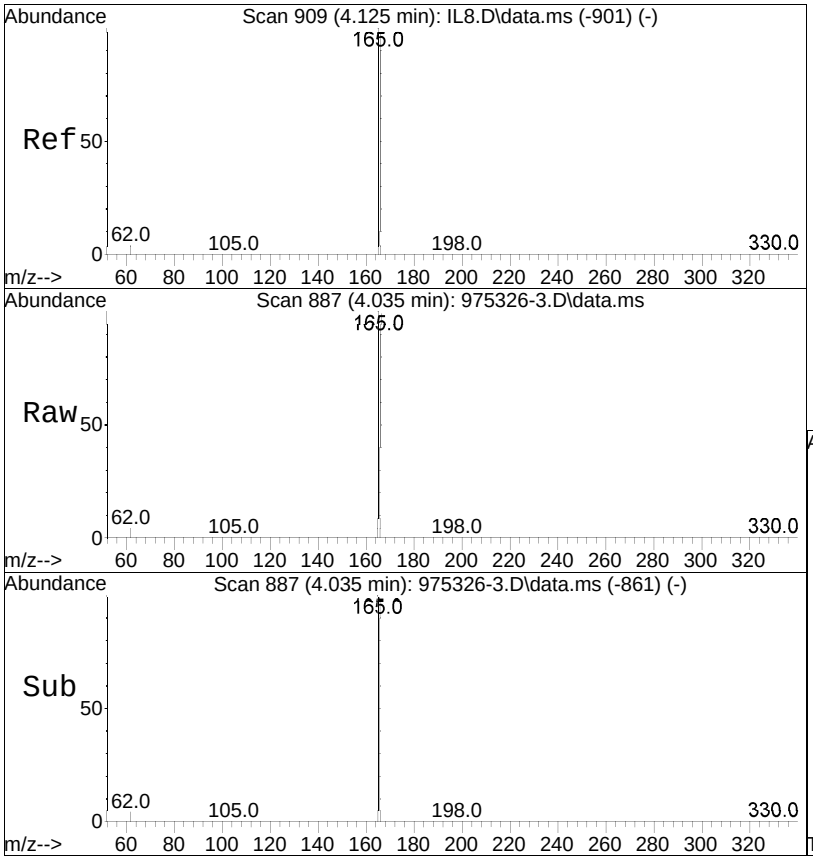


#18
Acenaphthene
Concen: 1269.55 ng/ml
RT: 3.747 min Scan# 787
Delta R.T. 0.004 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:153 Resp: 202130

Ion	Ratio	Lower	Upper
153	100		
154	86.3	72.3	108.5

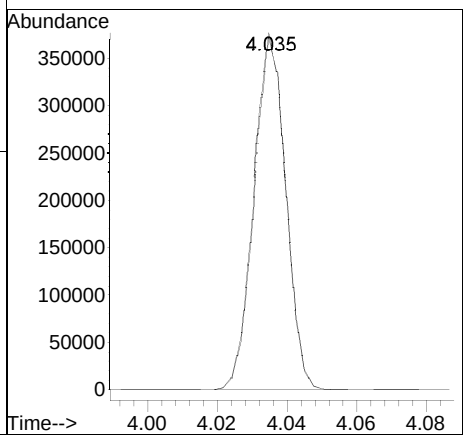


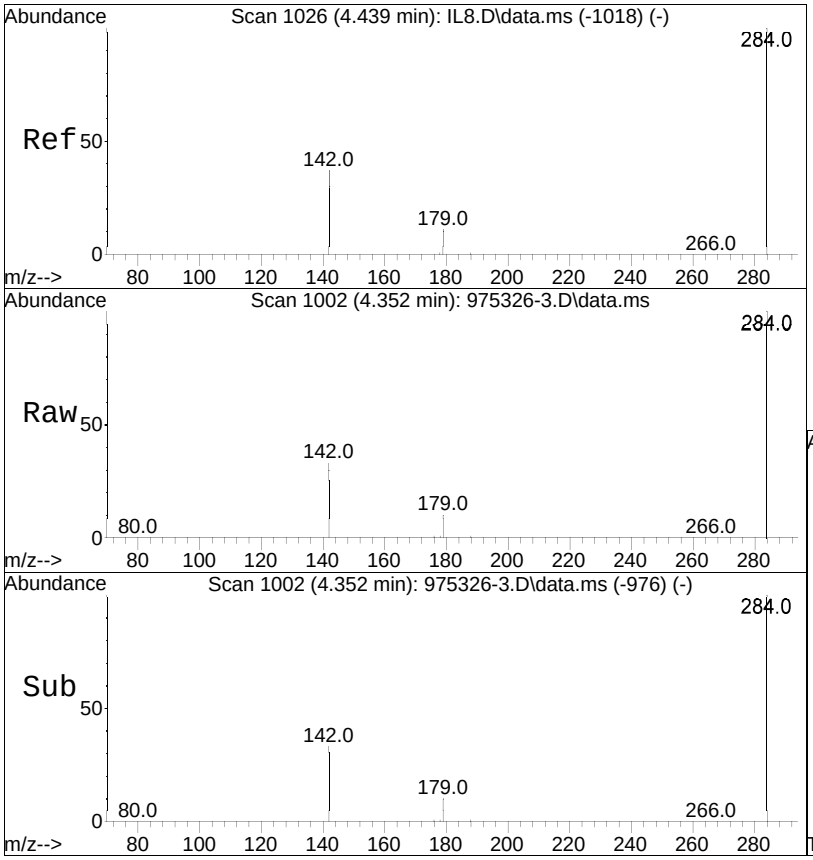


#20
Fluorene
Concen: 1335.39 ng/ml
RT: 4.035 min Scan# 887
Delta R.T. 0.001 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:166 Resp: 235602

Ion	Ratio	Lower	Upper
166	100		
165	101.2	81.5	122.3

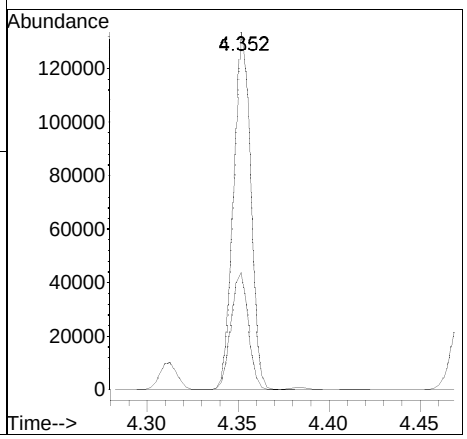


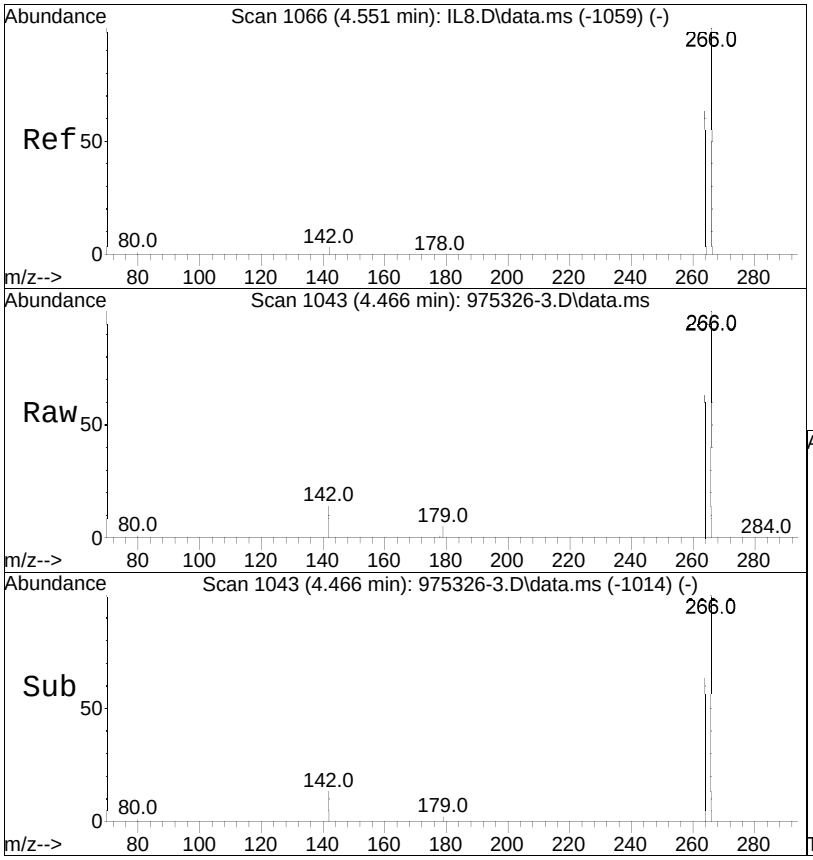


#24
Hexachlorobenzene
Concen: 1385.40 ng/ml
RT: 4.352 min Scan# 1002
Delta R.T. 0.001 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:284 Resp: 87326

Ion	Ratio	Lower	Upper
284	100		
142	32.9	29.4	44.2

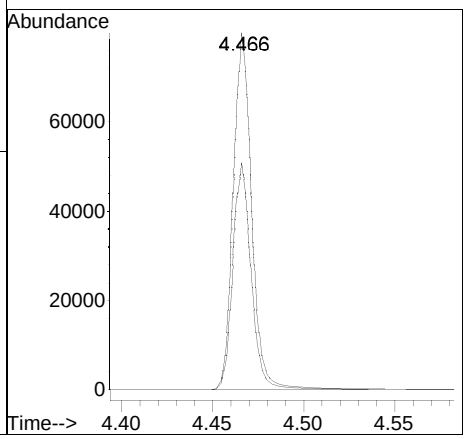


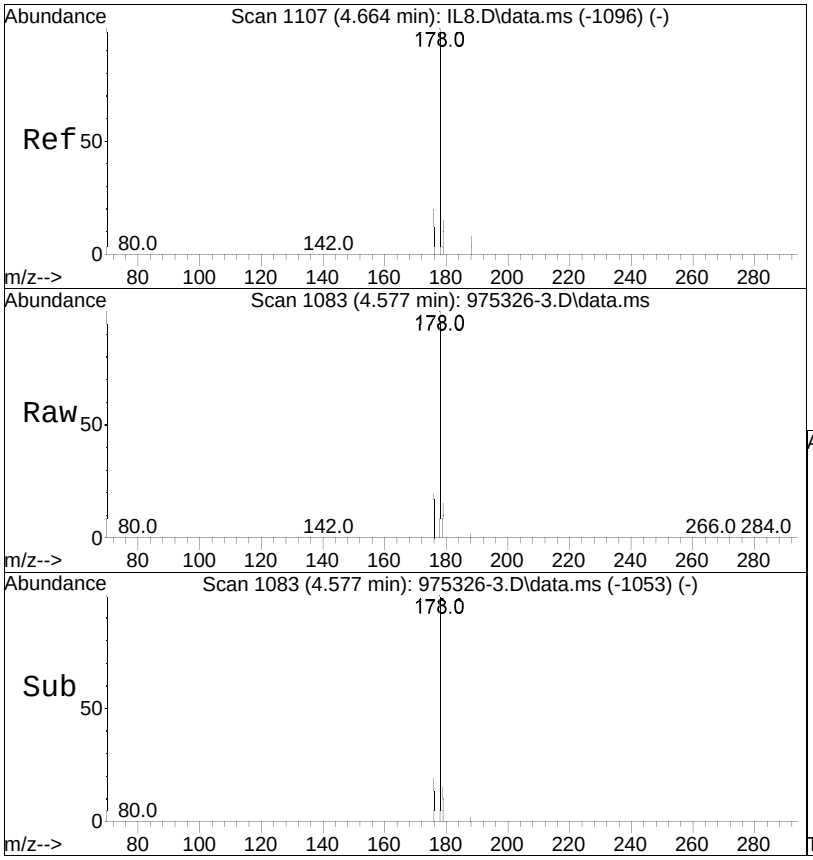


#25
Pentachlorophenol
Concen: 1802.03 ng/ml
RT: 4.466 min Scan# 1043
Delta R.T. 0.001 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:266 Resp: 55892

Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.2	75.4

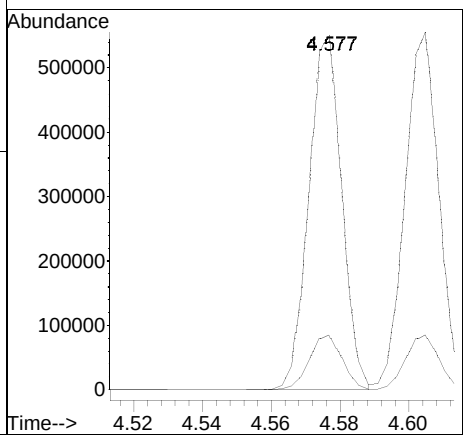


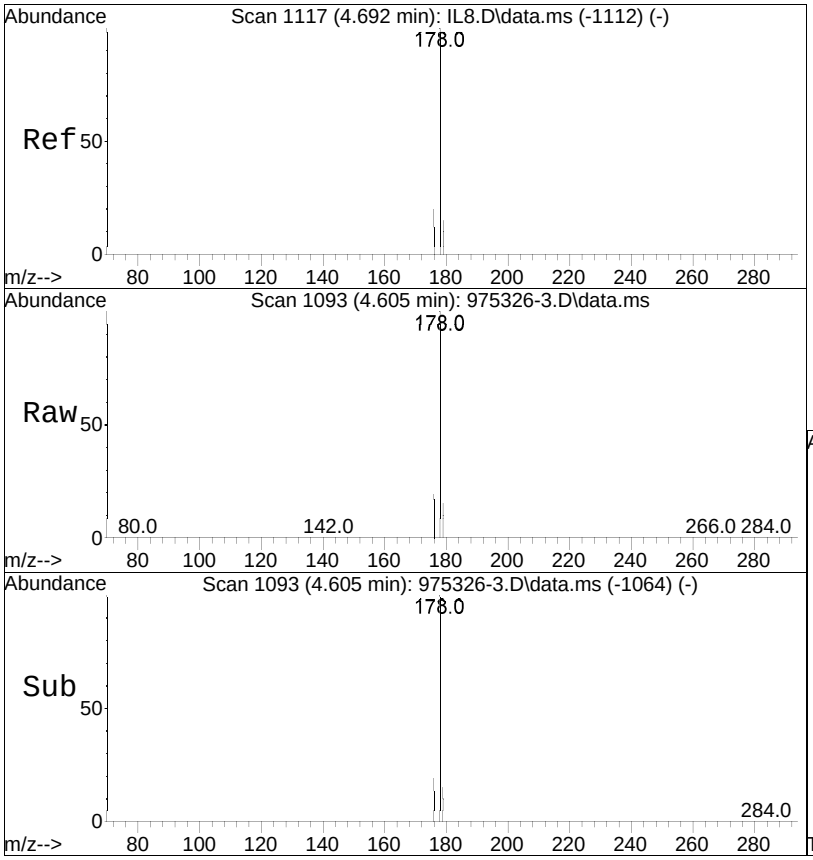


#26
Phenanthrene
Concen: 1365.35 ng/ml
RT: 4.577 min Scan# 1083
Delta R.T. 0.004 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:178 Resp: 364470

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.4	18.6

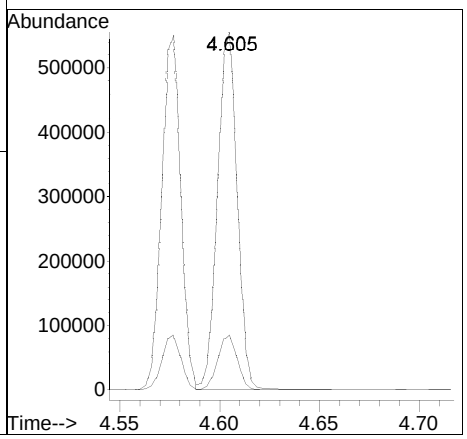


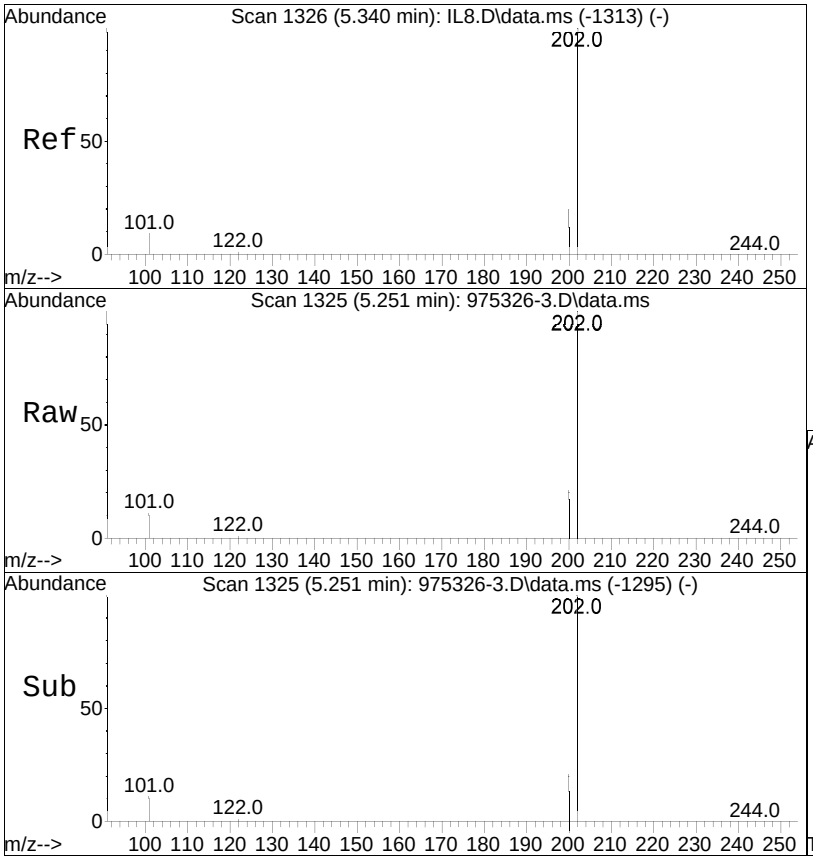


#27
Anthracene
Concen: 1470.04 ng/ml
RT: 4.605 min Scan# 1093
Delta R.T. 0.001 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:178 Resp: 378597

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.3	18.5

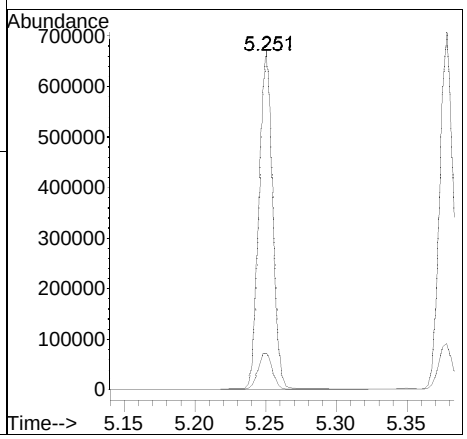


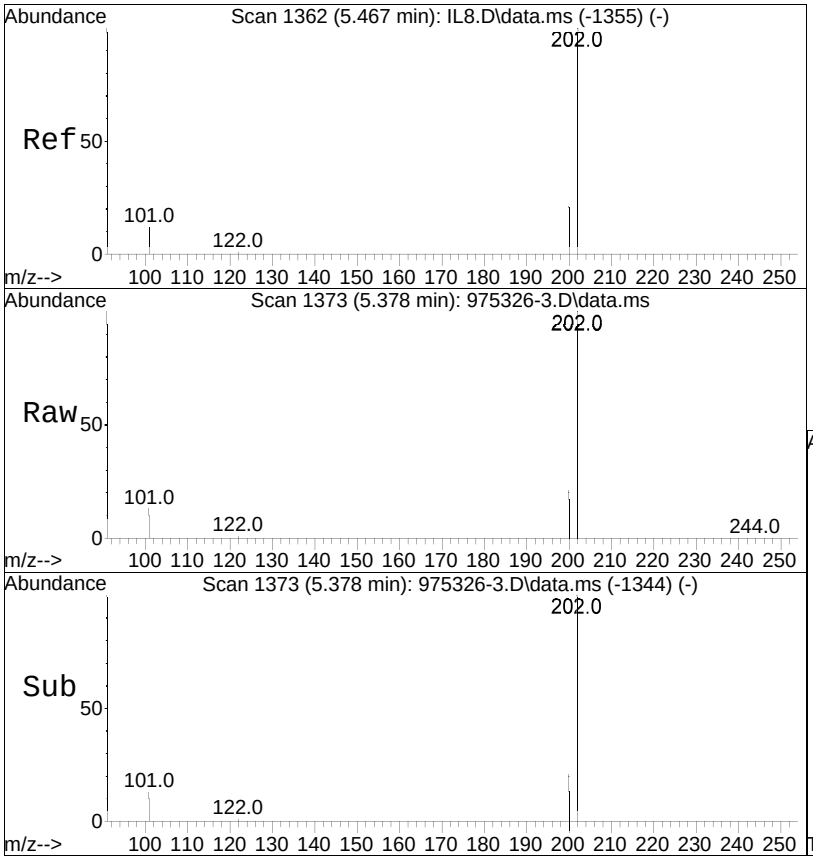


#28
Fluoranthene
Concen: 1569.11 ng/ml
RT: 5.251 min Scan# 1325
Delta R.T. -0.001 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:202 Resp: 452580

Ion	Ratio	Lower	Upper
202	100		
101	11.2	8.7	13.1

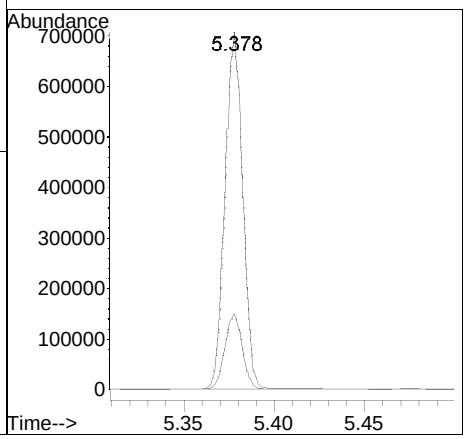


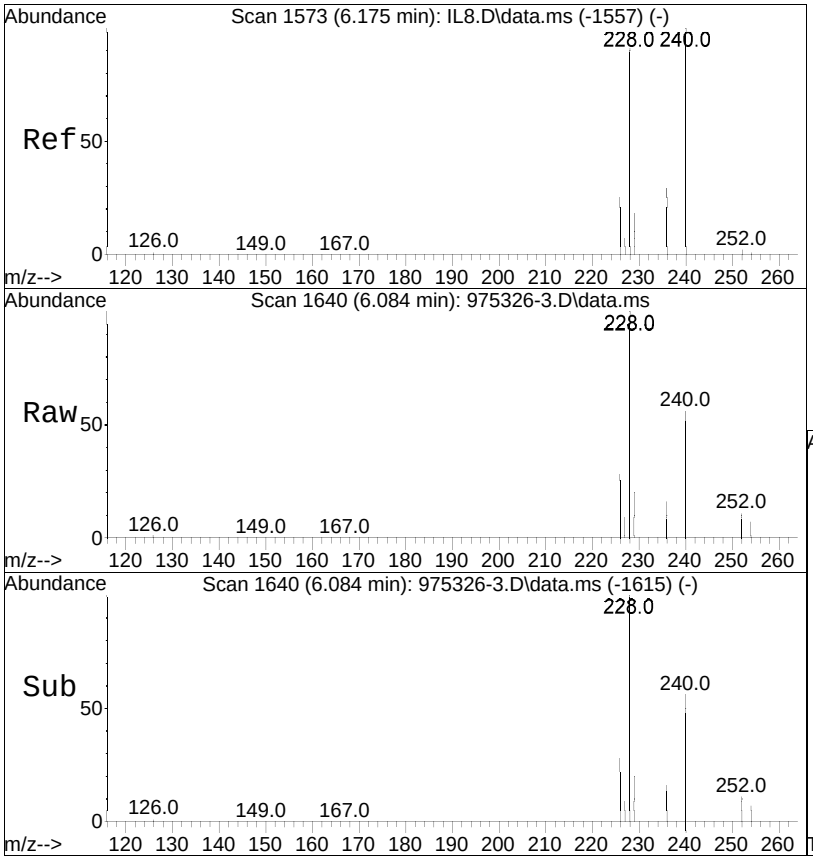


#29
Pyrene
Concen: 1570.78 ng/ml
RT: 5.378 min Scan# 1373
Delta R.T. -0.004 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:202 Resp: 472020

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.2

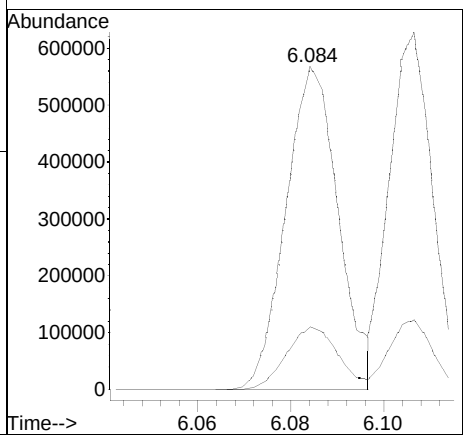


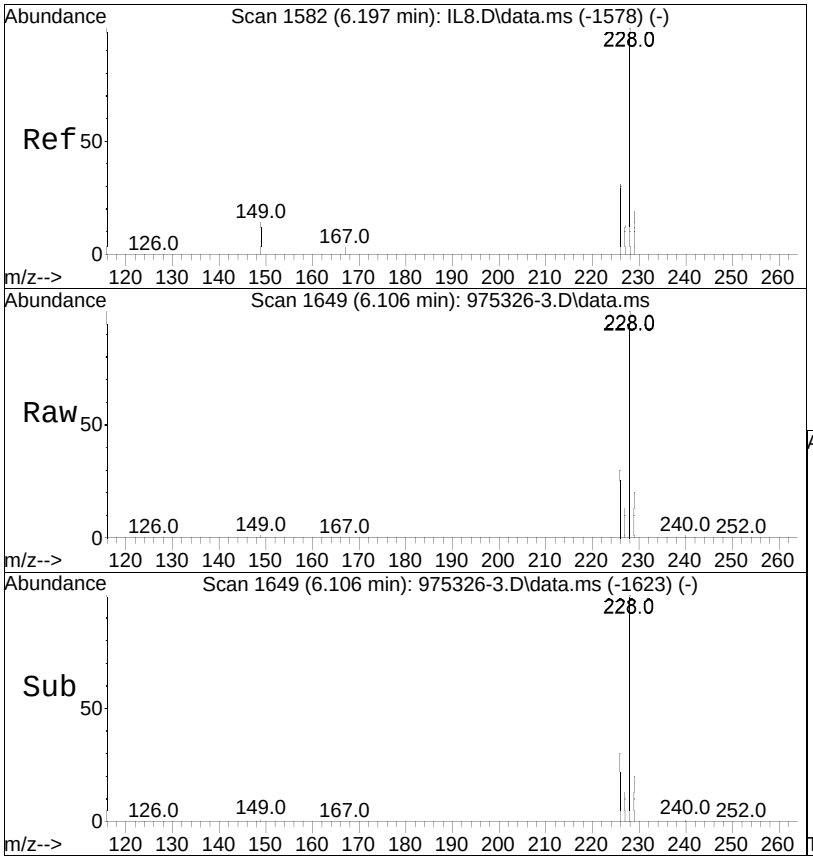


#32
Benzo[a]anthracene
Concen: 1466.00 ng/ml
RT: 6.084 min Scan# 1640
Delta R.T. -0.018 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:228 Resp: 446602

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.8	23.6

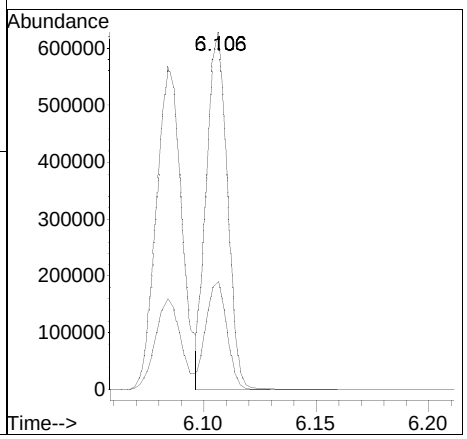


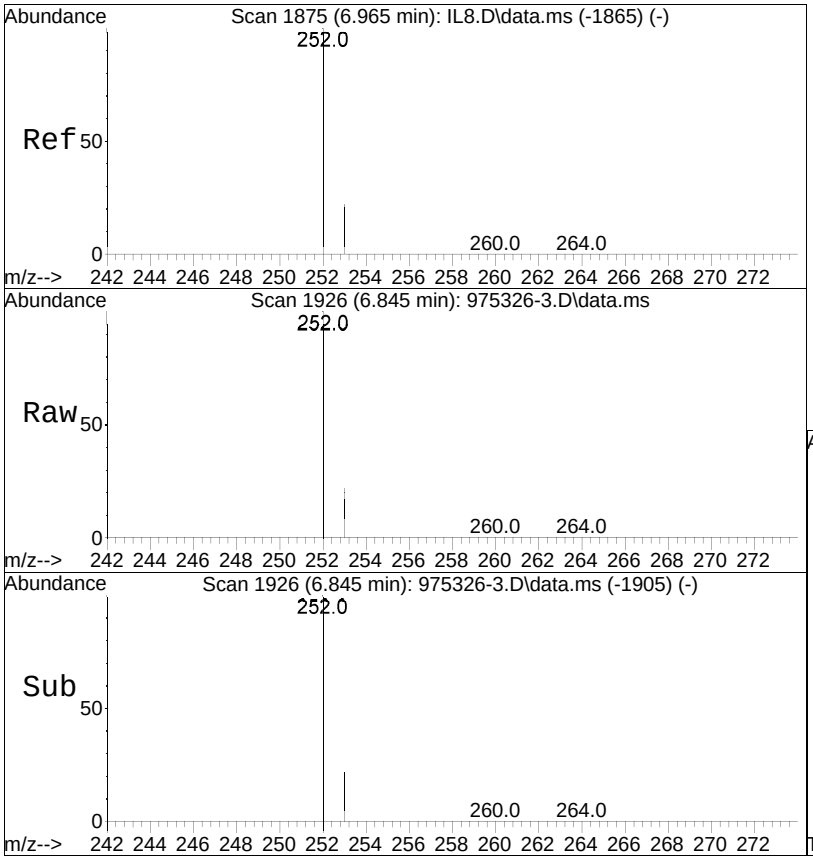


#34
Chrysene
Concen: 1379.33 ng/ml
RT: 6.106 min Scan# 1649
Delta R.T. -0.015 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:228 Resp: 404437

Ion	Ratio	Lower	Upper
228	100		
226	31.4	25.7	38.5

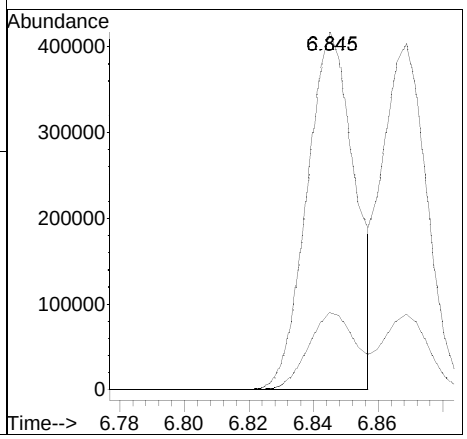


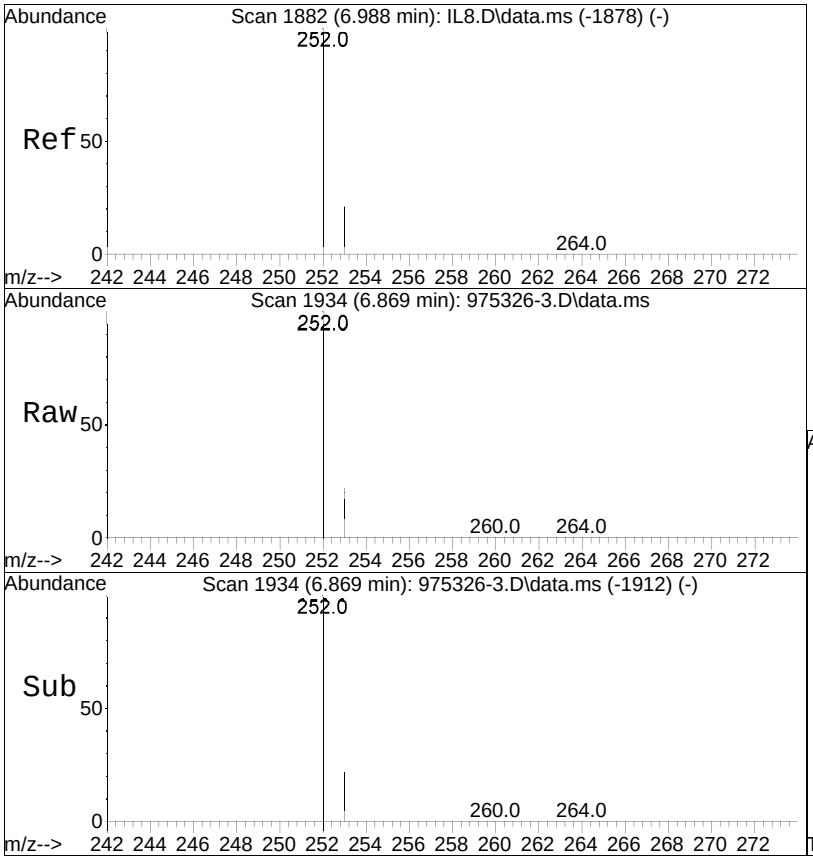


#37
Benzo[b]fluoranthene
Concen: 1613.69 ng/ml
RT: 6.845 min Scan# 1926
Delta R.T. -0.018 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:252 Resp: 431072

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

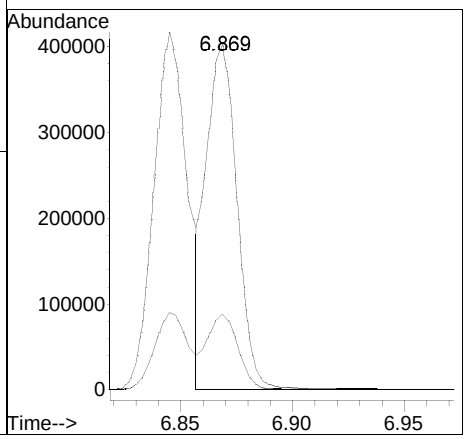


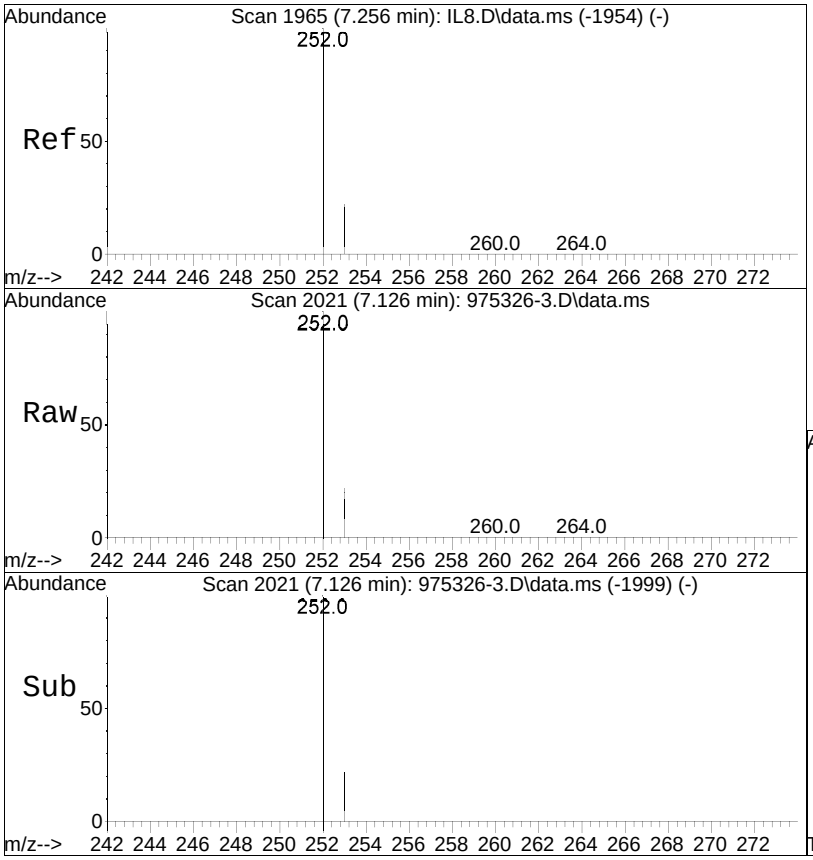


#38
Benzo[k]fluoranthene
Concen: 1528.00 ng/ml
RT: 6.869 min Scan# 1934
Delta R.T. -0.015 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:252 Resp: 384571

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4

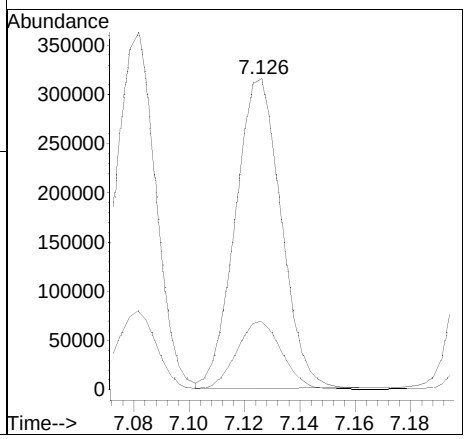


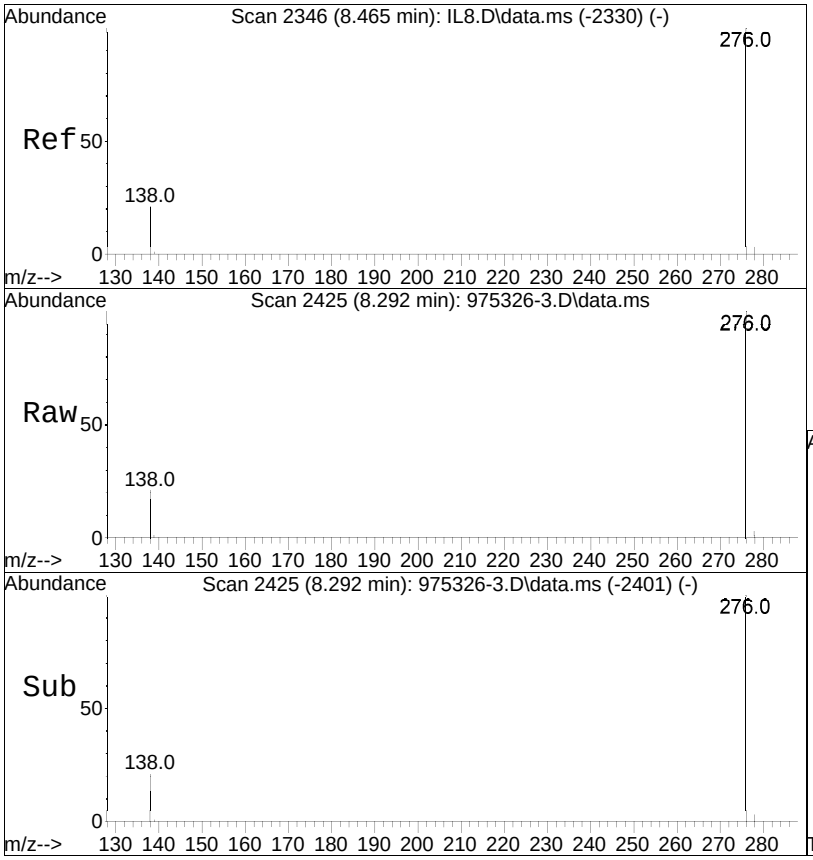


#39
Benzo[a]pyrene
Concen: 1686.91 ng/ml
RT: 7.126 min Scan# 2021
Delta R.T. -0.015 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:252 Resp: 360389

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

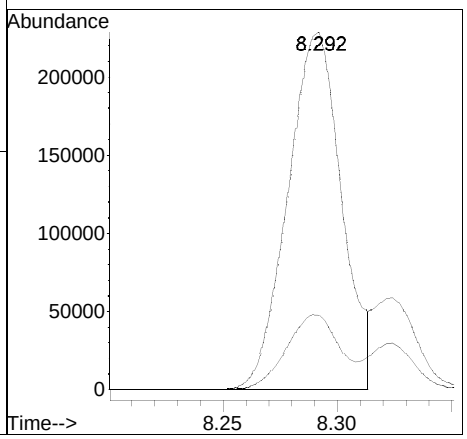


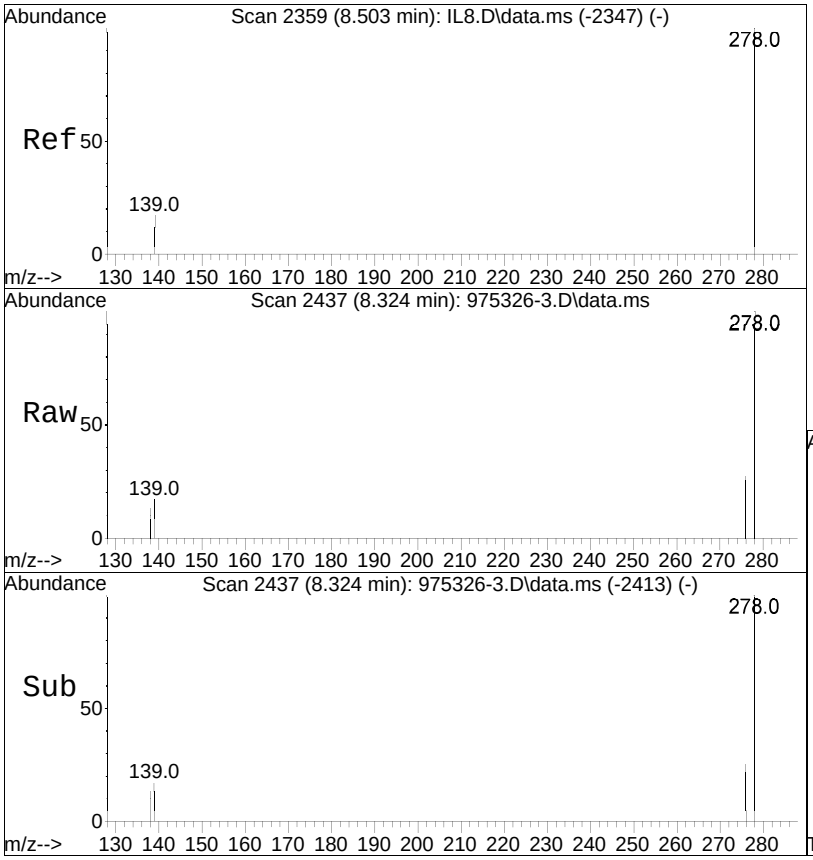


#40
Indeno[1,2,3-cd]pyrene
Concen: 1863.05 ng/ml
RT: 8.292 min Scan# 2425
Delta R.T. -0.016 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:276 Resp: 372963

Ion	Ratio	Lower	Upper
276	100		
138	20.7	17.2	25.8

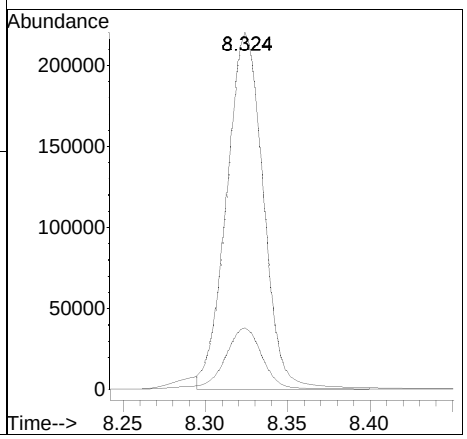


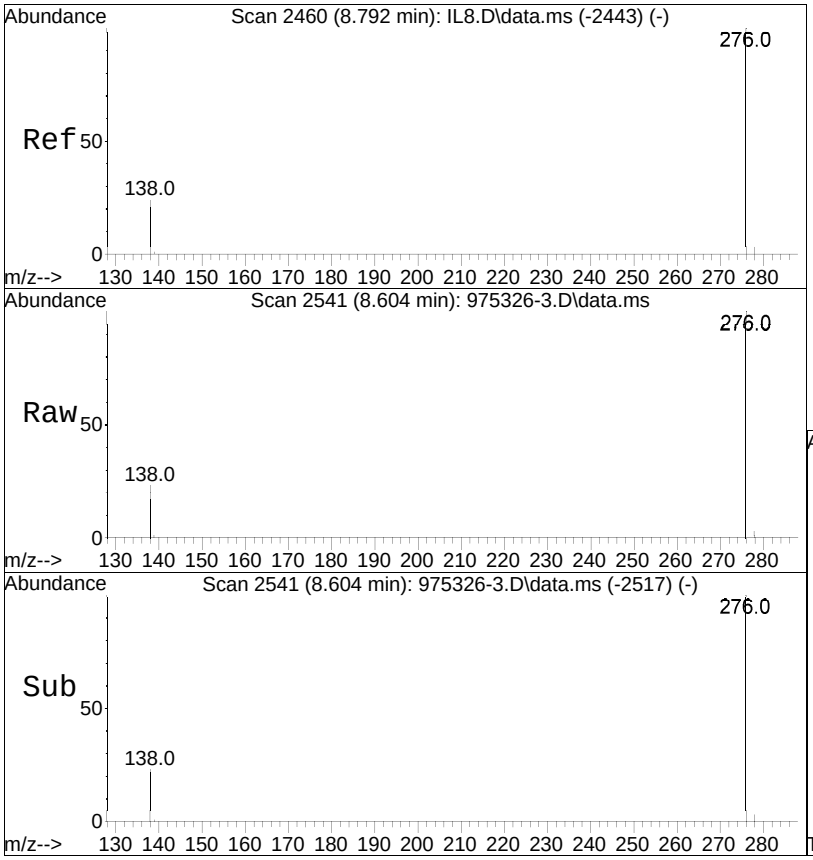


#41
Dibenzo[a,h]anthracene
Concen: 1807.10 ng/ml M6
RT: 8.324 min Scan# 2437
Delta R.T. -0.016 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:278 Resp: 339507

Ion	Ratio	Lower	Upper
278	100		
139	17.7	14.7	22.1

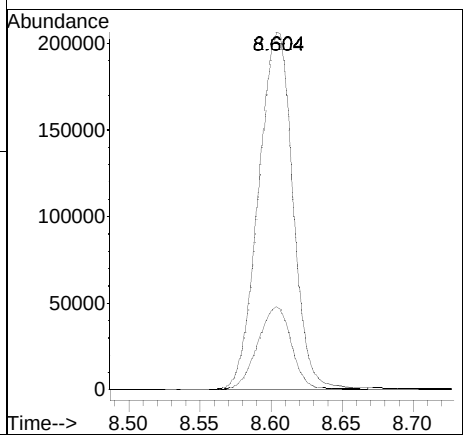




#42
Benzo[g,h,i]perylene
Concen: 1670.50 ng/ml
RT: 8.604 min Scan# 2541
Delta R.T. -0.016 min
Lab File: 975326-3.D
Acq: 24 Sep 2024 05:43 pm

Tgt Ion:276 Resp: 341832

Ion	Ratio	Lower	Upper
276	100		
138	23.0	19.0	28.4

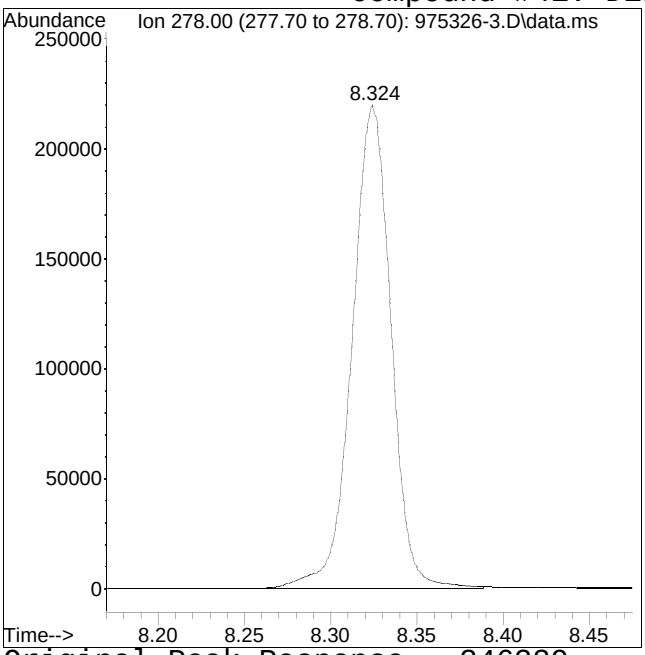


Manual Integration Report

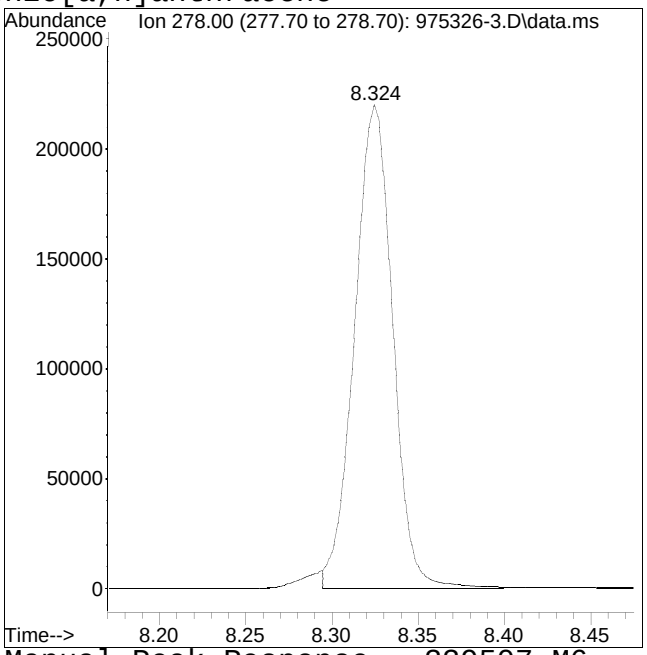
Data Path : I:\8270SIM\sv120\240924RVTQ
Data File : 975326-3.D
Date Inj'd : 9/24/2024 5:43 pm
Sample : WG1975326-3,32,,kmh

Method : SIM-RVT_240728_sv120.M
Operator : SV120:mrg
Instrument : SV120
Quant Date : 9/24/2024 5:56 pm

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 346329



Manual Peak Response = 339507 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : 975326-4.D
Acq On : 25 Sep 2024 02:04 pm
Operator : sv119:im
Sample : WG1975326-4,32,,kmh
Misc : WG1976035,WG1975326,ical21236
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 25 14:17:29 2024
Quant Method : I:\8270sim\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240925RVT\ccv0925.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.231	152	171036	4000.000	ng/ml	0.00
Standard Area 1 = 191752			Recovery = 89.20%			
8) Naphthalene-d8	2.882	136	607401	4000.000	ng/ml	0.00
Standard Area 1 = 679198			Recovery = 89.43%			
17) Acenaphthene-d10	3.845	164	403758	4000.000	ng/ml	0.00
Standard Area 1 = 435185			Recovery = 92.78%			
22) Phenanthrene-d10	4.680	188	908371	4000.000	ng/ml	0.00
Standard Area 1 = 971629			Recovery = 93.49%			
31) Chrysene-d12	6.246	240	1109679	4000.000	ng/ml	0.00
Standard Area 1 = 1032016			Recovery = 107.53%			
36) Perylene-d12	7.432	264	1176157	4000.000	ng/ml	0.00
Standard Area 1 = 1026679			Recovery = 114.56%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.665	112	45639	756.443	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 37.82%			
3) Phenol-d6	2.053	99	42479	558.230	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 27.91%			
7) Nitrobenzene-d5	2.507	82	37975	568.921	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 56.89%			
13) 2-Fluorobiphenyl	3.470	172	100260	638.482	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 63.85%			
21) 2,4,6-Tribromophenol	4.288	330	32695	1159.762	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 57.99%			
30) 4-Terphenyl-d14	5.598	244	132818	528.915	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 26.45%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.096	93	69145	1131.002	ng/ml#	80
6) Hexachloroethane	2.484	117	27965	985.494	ng/ml	89
9) Naphthalene	2.894	128	201243	1200.062	ng/ml	100
10) Hexachlorobutadiene	2.964	225	45778	1216.169	ng/ml	100
11) 2-Methylnaphthalene	3.267	142	154171	1223.321	ng/ml	99
14) 2-Chloronaphthalene	3.536	162	173858	1280.442	ng/ml	98
16) Acenaphthylene	3.765	152	254286	1172.213	ng/ml	100
18) Acenaphthene	3.863	153	164253	1165.451	ng/ml	100
20) Fluorene	4.150	166	210950	1135.618	ng/ml	100
24) Hexachlorobenzene	4.467	284	72772	1166.751	ng/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : 975326-4.D
Acq On : 25 Sep 2024 02:04 pm
Operator : sv119:im
Sample : WG1975326-4,32,,kmh
Misc : WG1976035,WG1975326,ical21236
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 25 14:17:29 2024
Quant Method : I:\8270sim\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240925RVT\ccv0925.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.579	266	46651	1187.956	ng/ml	98
26) Phenanthrene	4.692	178	301670	1142.351	ng/ml	99
27) Anthracene	4.720	178	323757	1186.595	ng/ml	99
28) Fluoranthene	5.372	202	407873	1124.831	ng/ml	96
29) Pyrene	5.503	202	419381	1116.110	ng/ml	99
32) Benzo[a]anthracene	6.238	228	447155	1065.515	ng/ml	100
34) Chrysene	6.262	228	485176	1174.756	ng/ml	98
37) Benzo[b]fluoranthene	7.062	252	537509	1103.403	ng/ml	100
38) Benzo[k]fluoranthene	7.084	252	480534	1067.760	ng/ml	100
39) Benzo[a]pyrene	7.364	252	470167	1089.751	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.614	276	506353	1160.981	ng/ml	97
41) Dibenzo[a,h]anthracene	8.651	278	443988	1142.792	ng/ml	97
42) Benzo[g,h,i]perylene	8.952	276	464004	1081.605	ng/ml	97

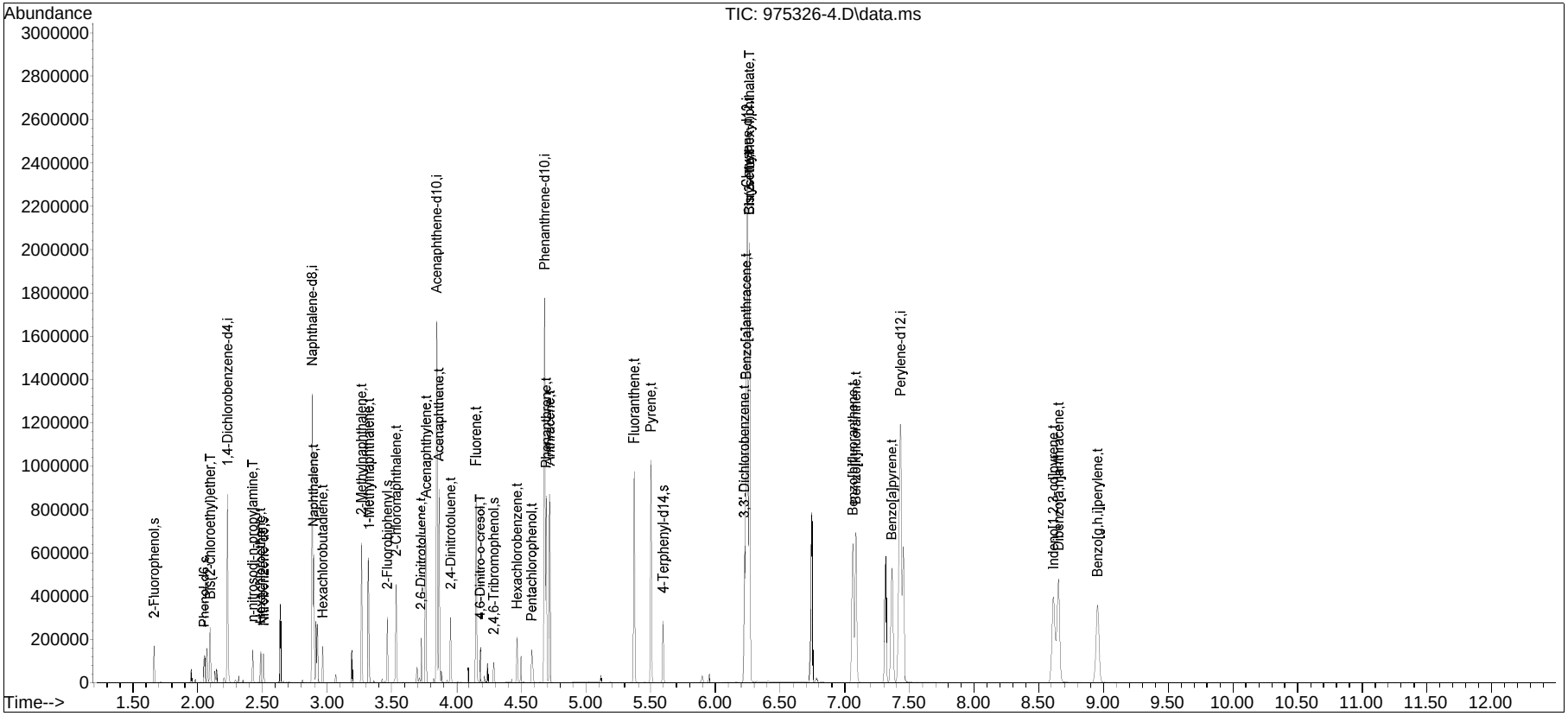
(#) = qualifier out of range (m) = manual integration (+) = signals summed

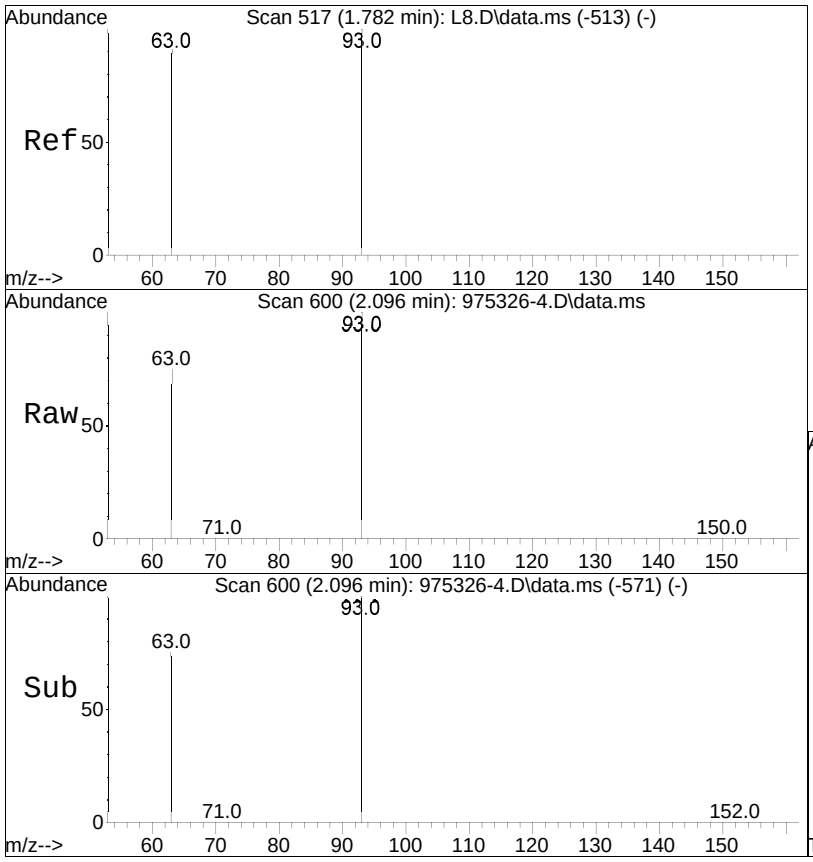
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : 975326-4.D
Acq On : 25 Sep 2024 02:04 pm
Operator : sv119:im
Sample : WG1975326-4,32,,kmh
Misc : WG1976035,WG1975326,ical21236
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 25 14:17:29 2024
Quant Method : I:\8270sim\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:19 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0925.D•

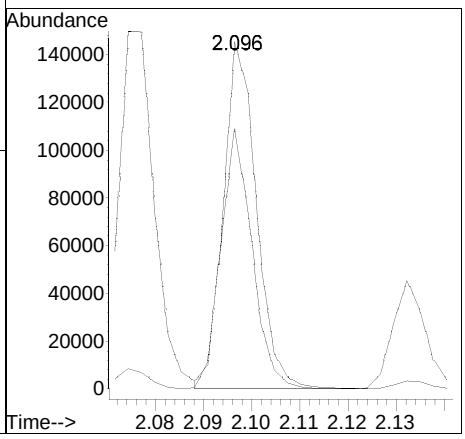


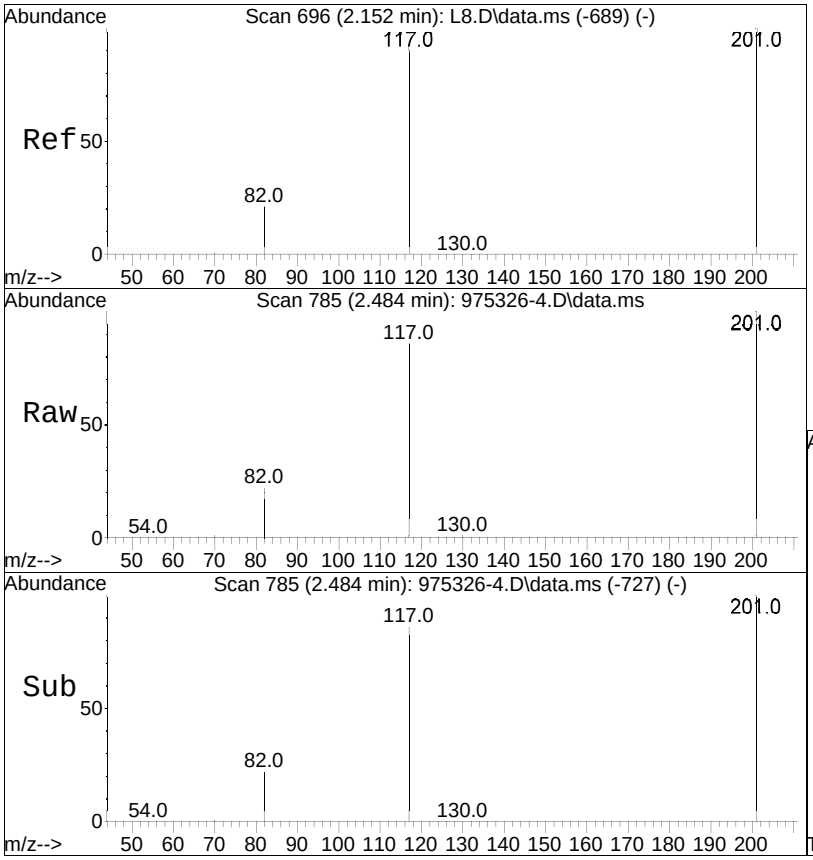


#4
Bis(2-chloroethyl)ether
Concen: 1131.00 ng/ml
RT: 2.096 min Scan# 600
Delta R.T. 0.001 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion: 93 Resp: 69145

Ion	Ratio	Lower	Upper
93	100		
63	71.0	71.7	107.5#

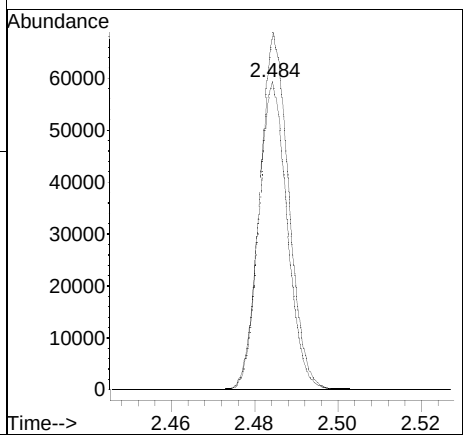


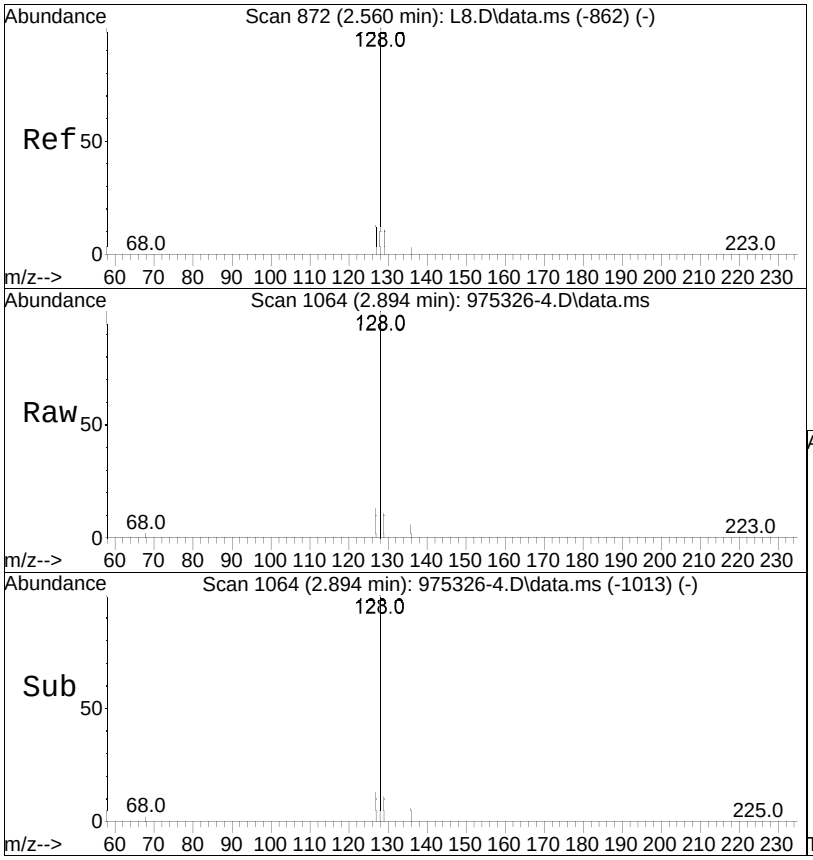


#6
Hexachloroethane
Concen: 985.49 ng/ml
RT: 2.484 min Scan# 785
Delta R.T. 0.002 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:117 Resp: 27965

Ion	Ratio	Lower	Upper
117	100		
201	115.4	83.0	124.6

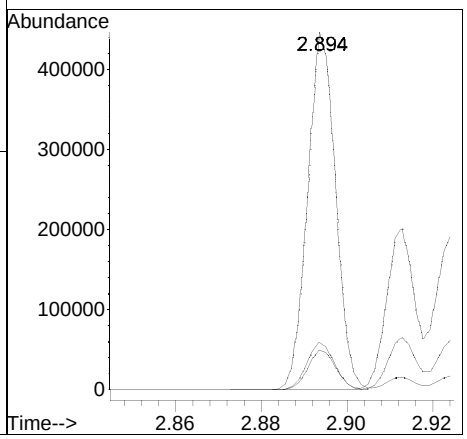


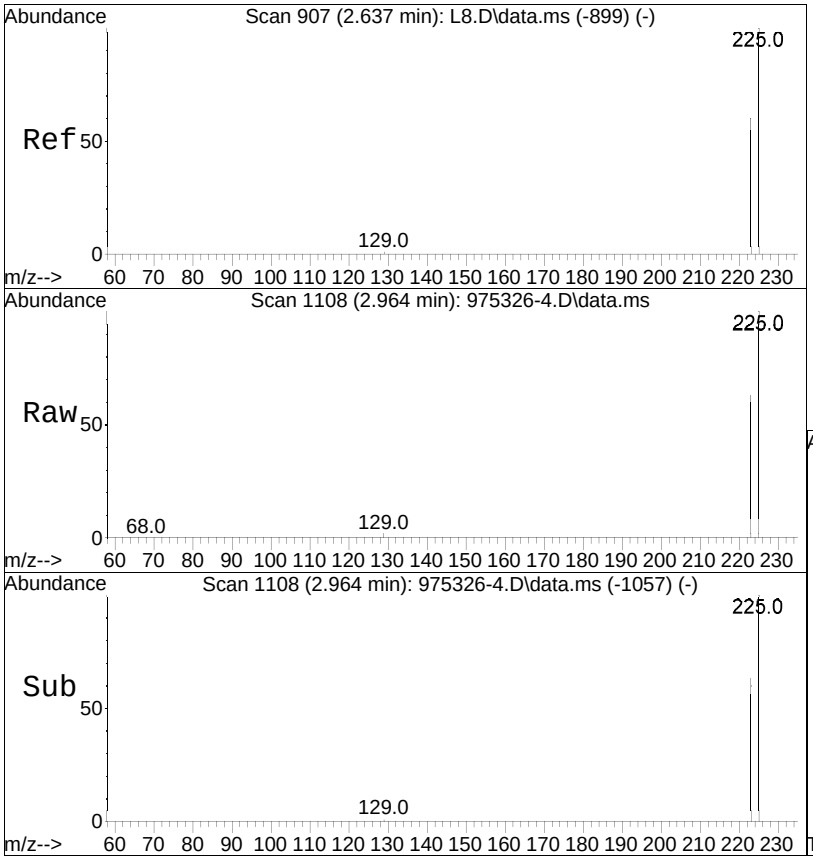


#9
Naphthalene
Concen: 1200.06 ng/ml
RT: 2.894 min Scan# 1064
Delta R.T. 0.002 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:128 Resp: 201243

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.3	10.6	15.8

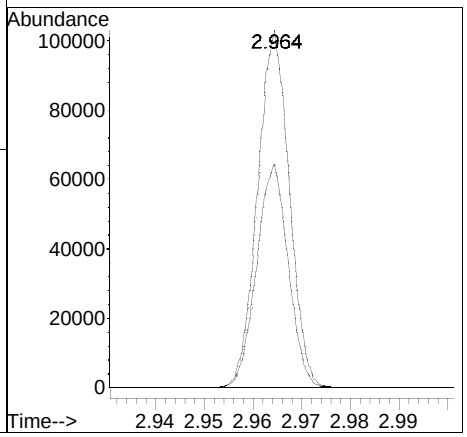


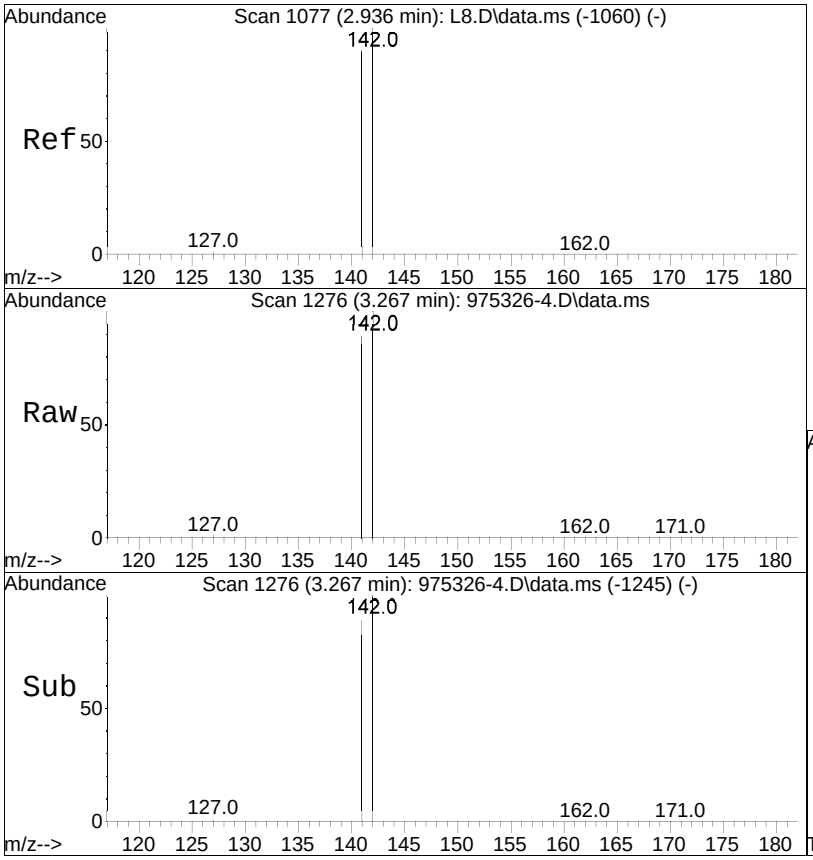


#10
Hexachlorobutadiene
Concen: 1216.17 ng/ml
RT: 2.964 min Scan# 1108
Delta R.T. 0.002 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:225 Resp: 45778

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.2

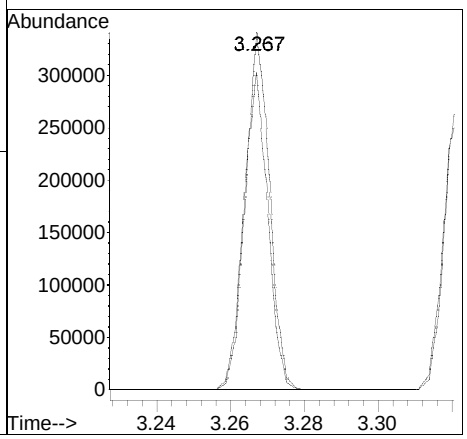


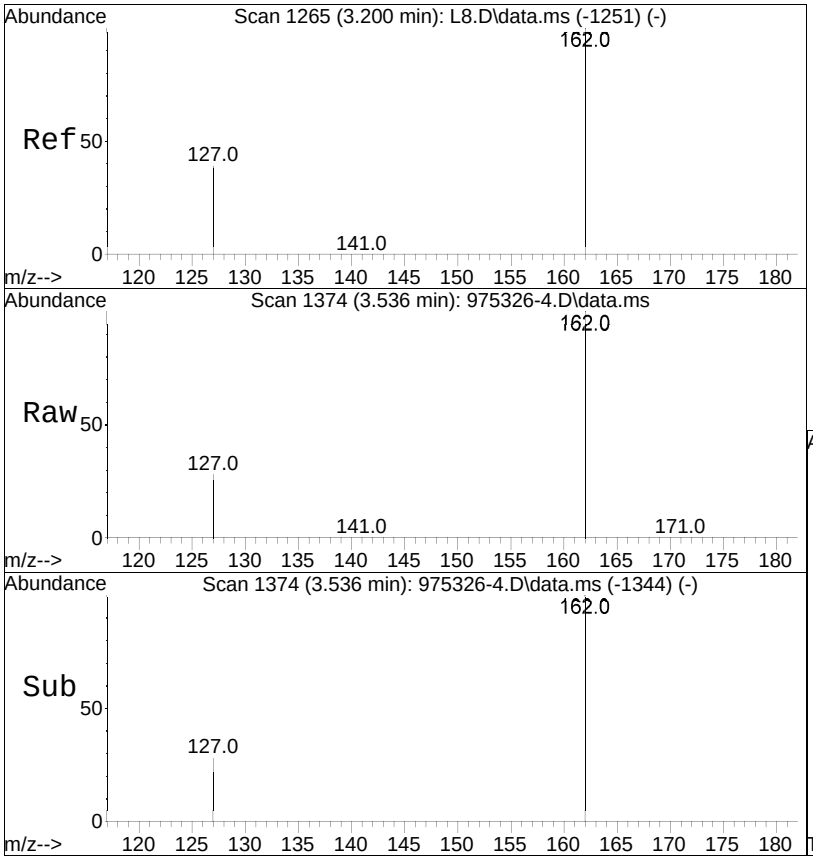


#11
2-Methylnaphthalene
Concen: 1223.32 ng/ml
RT: 3.267 min Scan# 1276
Delta R.T. 0.003 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:142 Resp: 154171

Ion	Ratio	Lower	Upper
142	100		
141	89.7	72.3	108.5

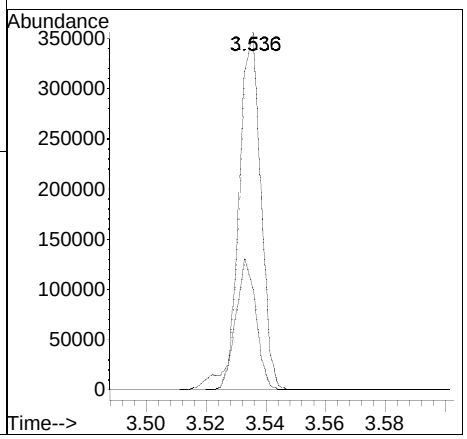


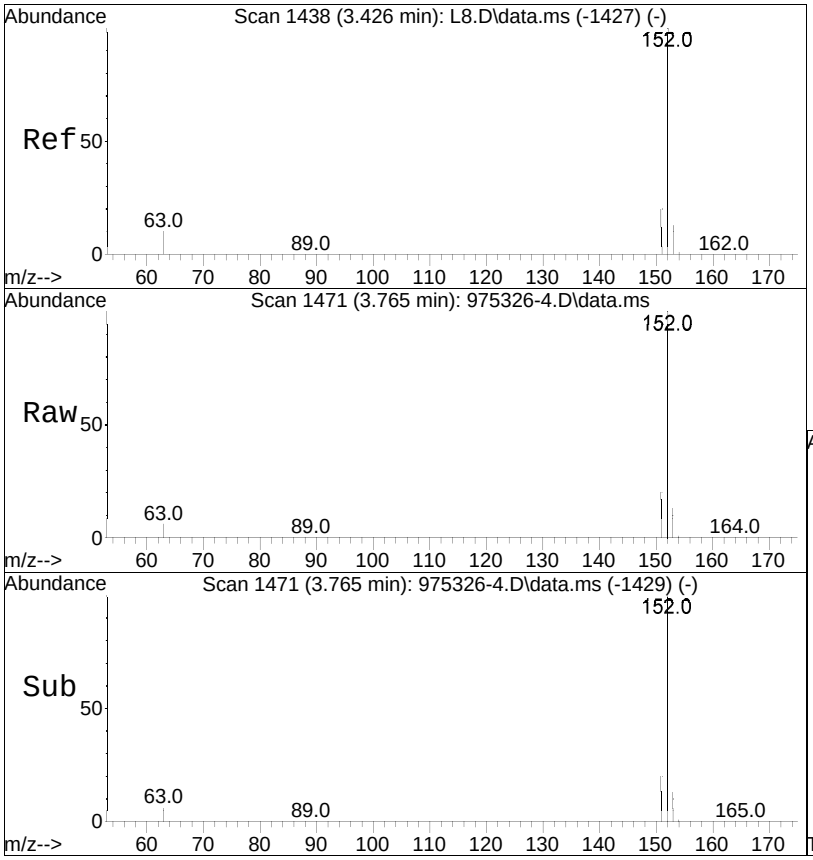


#14
2-Chloronaphthalene
Concen: 1280.44 ng/ml
RT: 3.536 min Scan# 1374
Delta R.T. 0.003 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:162 Resp: 173858

Ion	Ratio	Lower	Upper
162	100		
127	38.8	32.0	48.0

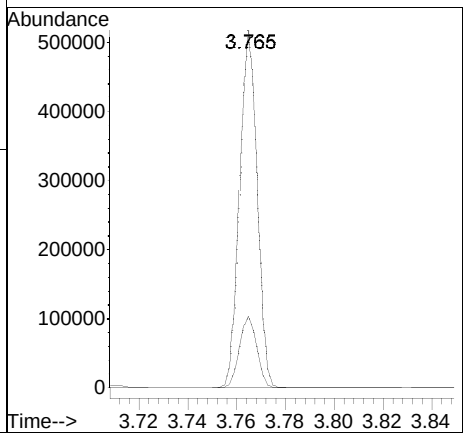


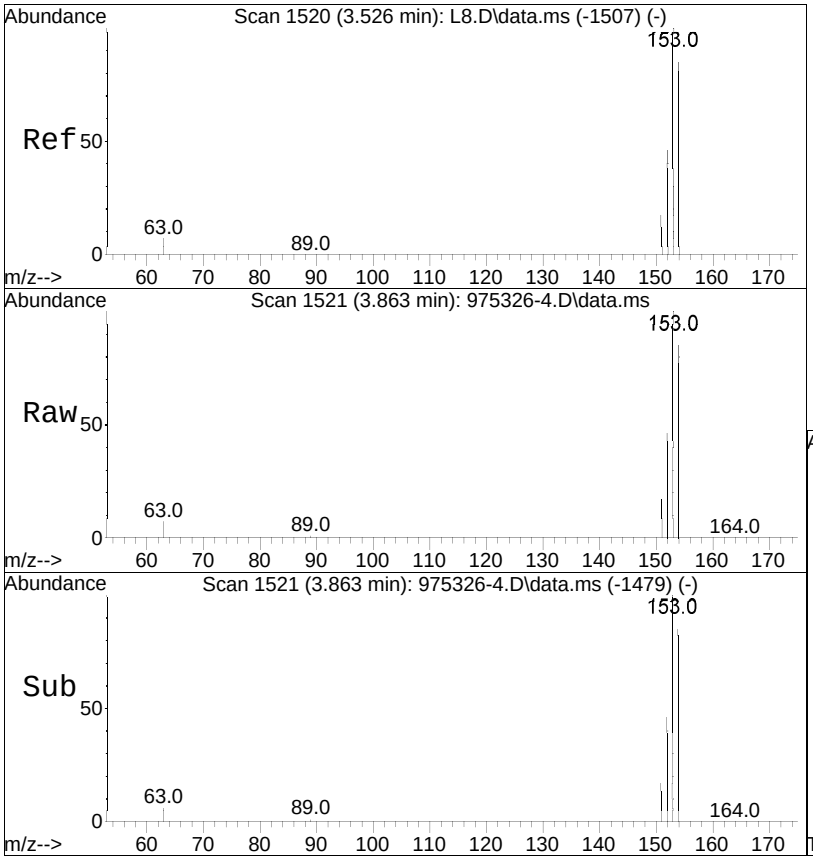


#16
Acenaphthylene
Concen: 1172.21 ng/ml
RT: 3.765 min Scan# 1471
Delta R.T. 0.001 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:152 Resp: 254286

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0

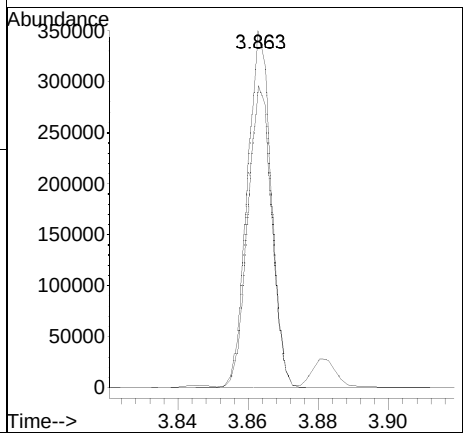


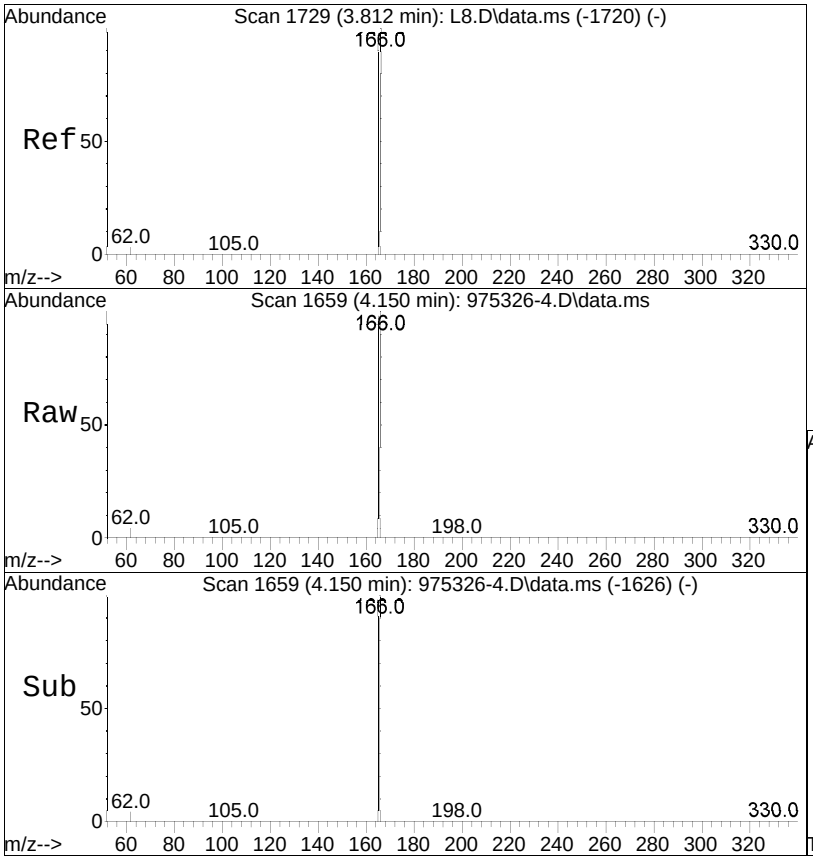


#18
Acenaphthene
Concen: 1165.45 ng/ml
RT: 3.863 min Scan# 1521
Delta R.T. 0.001 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:153 Resp: 164253

Ion	Ratio	Lower	Upper
153	100		
154	85.3	68.1	102.1

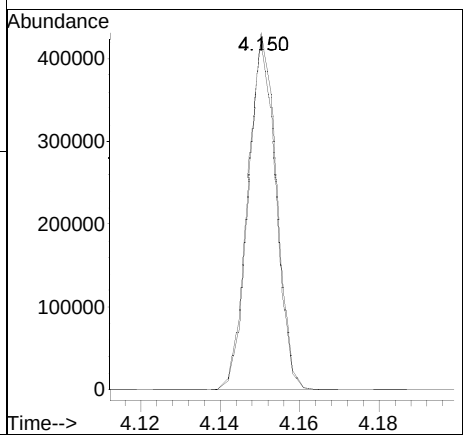


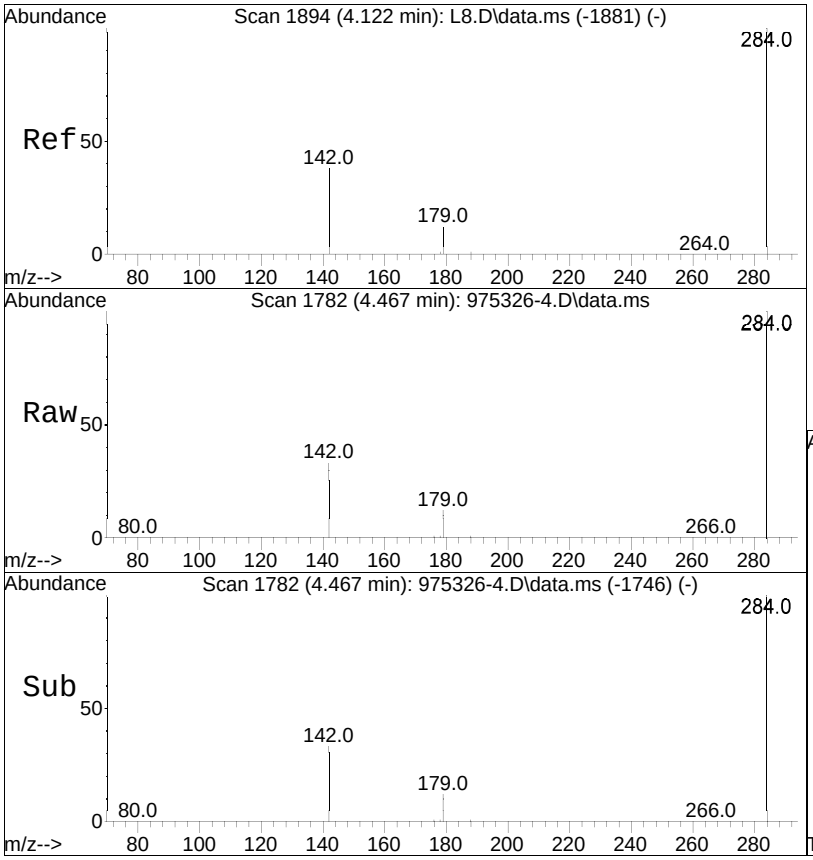


#20
Fluorene
Concen: 1135.62 ng/ml
RT: 4.150 min Scan# 1659
Delta R.T. 0.001 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:166 Resp: 210950

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.3	118.9

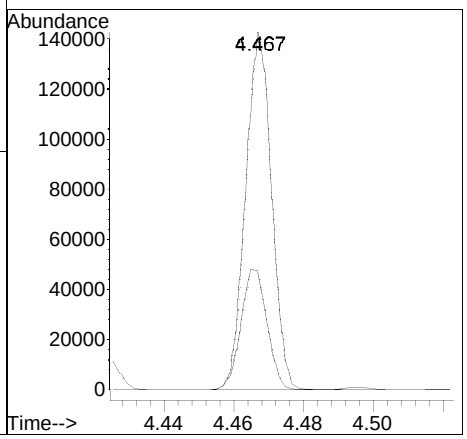


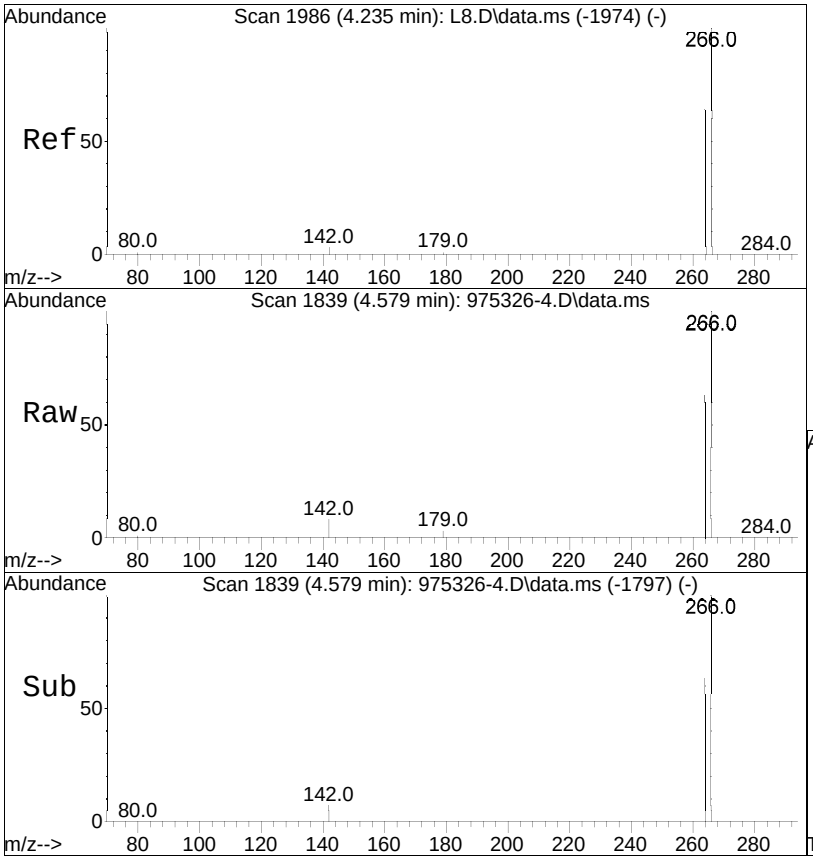


#24
Hexachlorobenzene
Concen: 1166.75 ng/ml
RT: 4.467 min Scan# 1782
Delta R.T. 0.002 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:284 Resp: 72772

Ion	Ratio	Lower	Upper
284	100		
142	34.0	30.0	45.0

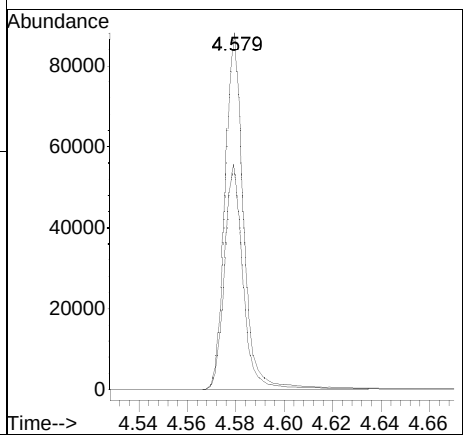


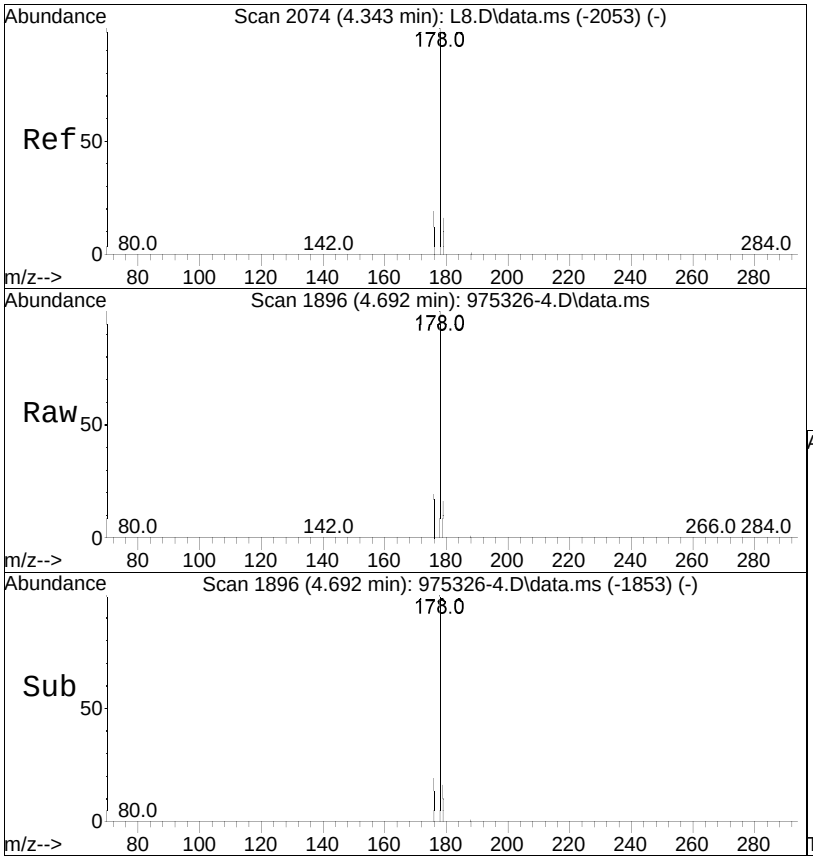


#25
Pentachlorophenol
Concen: 1187.96 ng/ml
RT: 4.579 min Scan# 1839
Delta R.T. 0.002 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:266 Resp: 46651

Ion	Ratio	Lower	Upper
266	100		
264	63.9	49.9	74.9

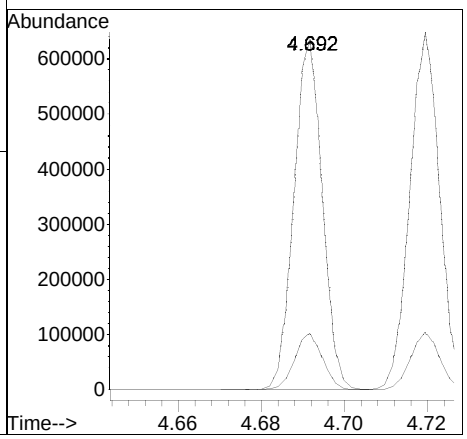


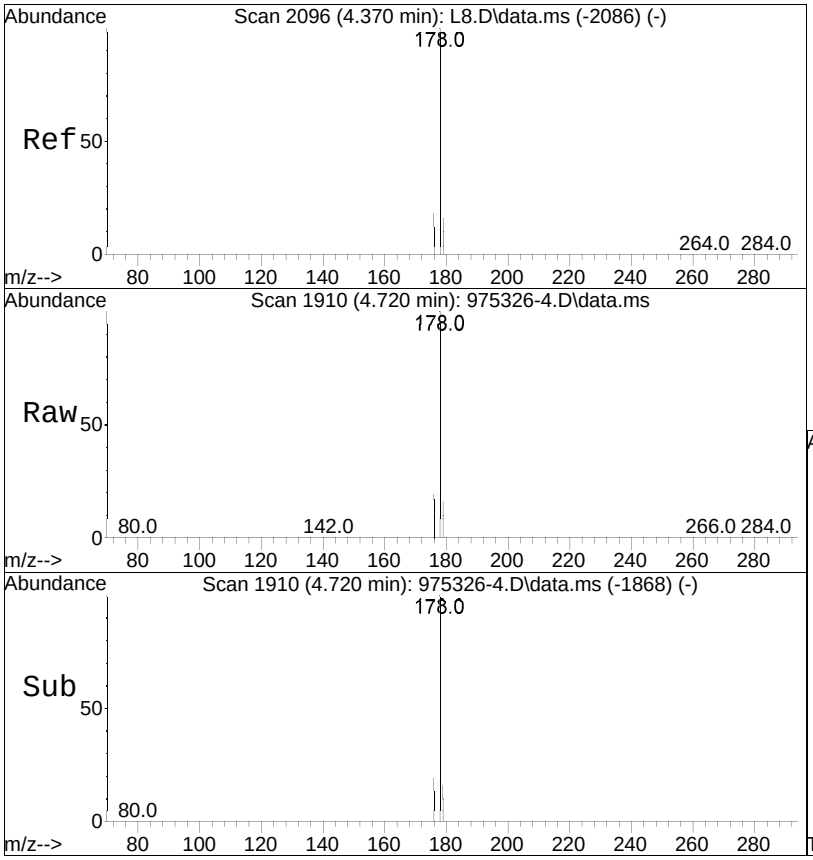


#26
Phenanthrene
Concen: 1142.35 ng/ml
RT: 4.692 min Scan# 1896
Delta R.T. 0.004 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:178 Resp: 301670

Ion	Ratio	Lower	Upper
178	100		
179	15.9	12.6	18.8

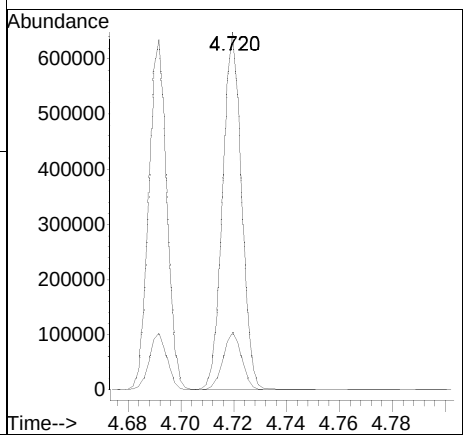


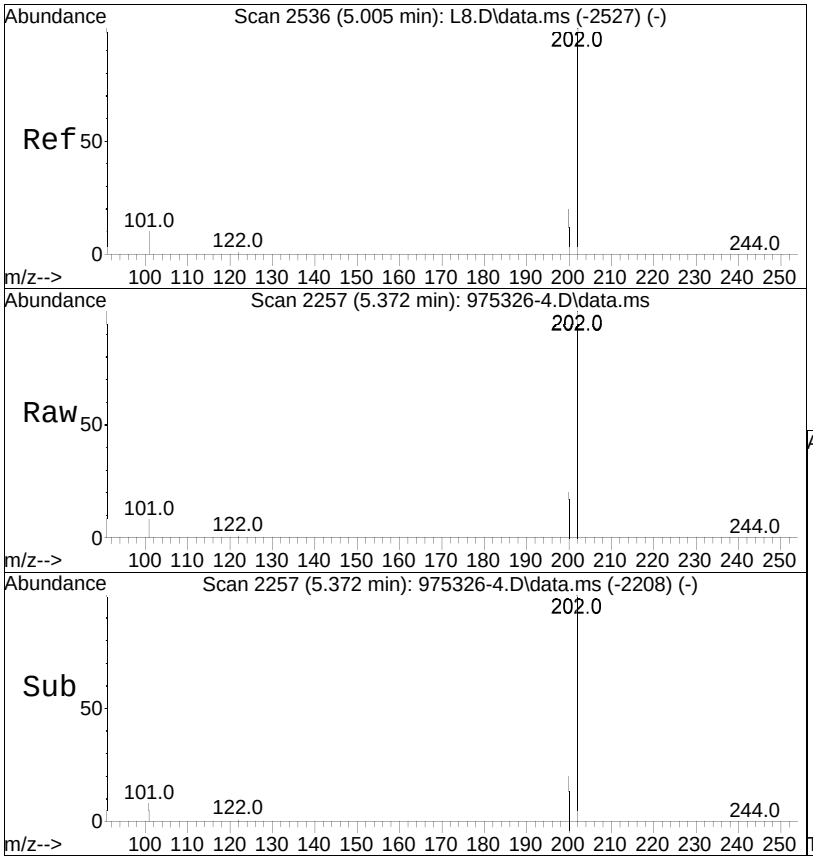


#27
Anthracene
Concen: 1186.60 ng/ml
RT: 4.720 min Scan# 1910
Delta R.T. 0.002 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:178 Resp: 323757

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.4	18.6

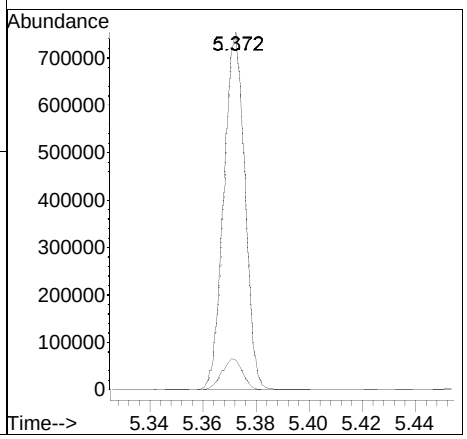


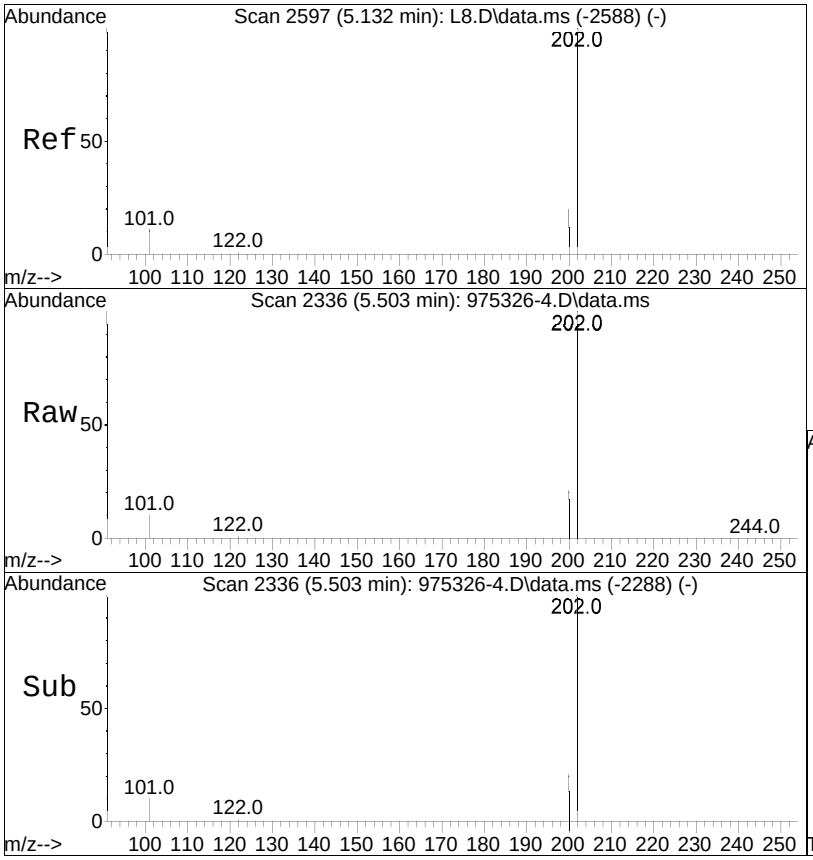


#28
Fluoranthene
Concen: 1124.83 ng/ml
RT: 5.372 min Scan# 2257
Delta R.T. 0.002 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:202 Resp: 407873

Ion	Ratio	Lower	Upper
202	100		
101	8.6	8.1	12.1

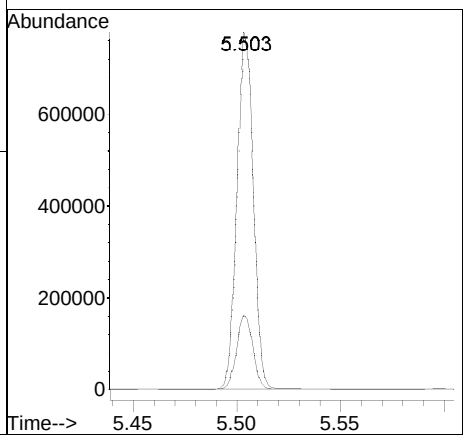


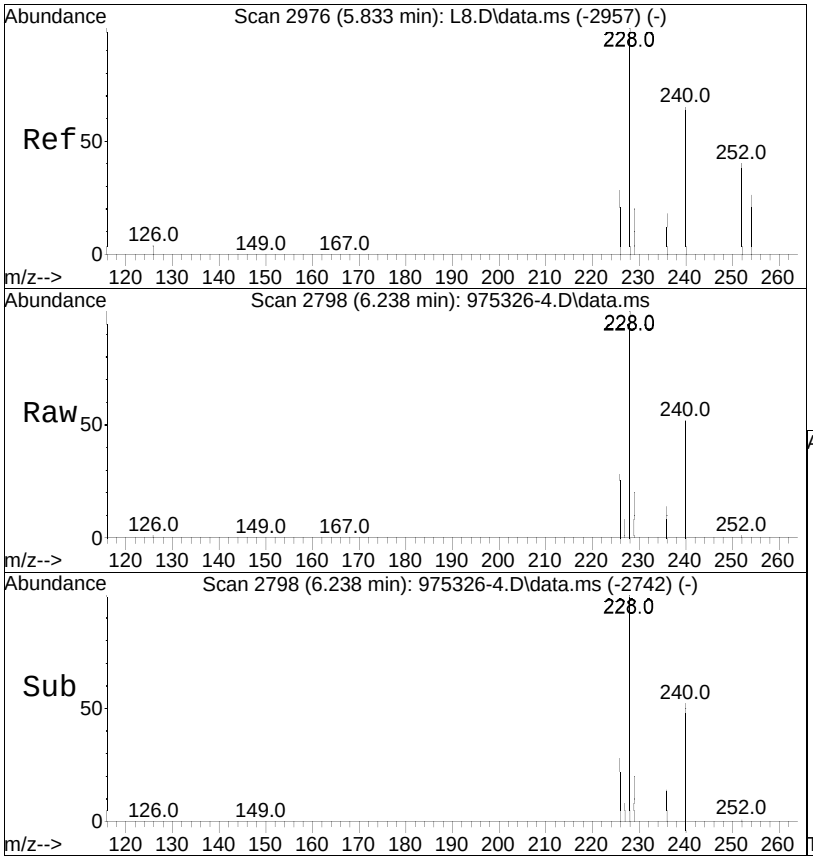


#29
Pyrene
Concen: 1116.11 ng/ml
RT: 5.503 min Scan# 2336
Delta R.T. 0.000 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:202 Resp: 419381

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.5	24.7

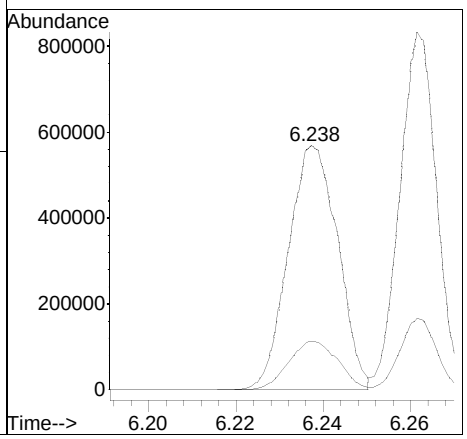


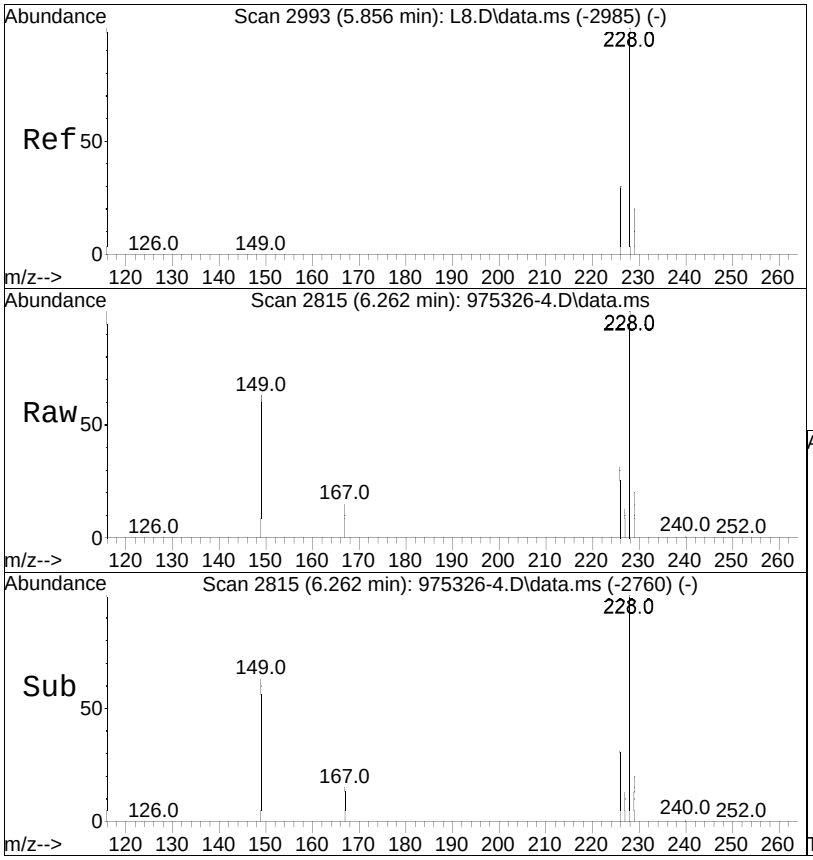


#32
Benzo[a]anthracene
Concen: 1065.52 ng/ml
RT: 6.238 min Scan# 2798
Delta R.T. -0.001 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:228 Resp: 447155

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.8	23.8

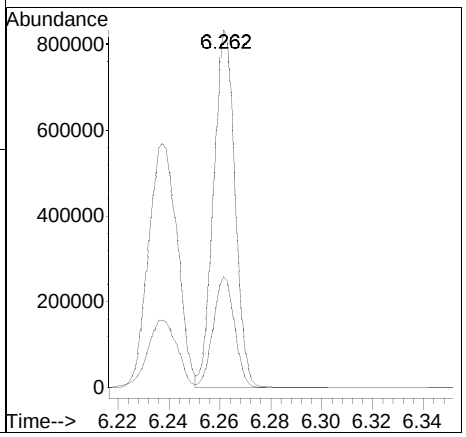


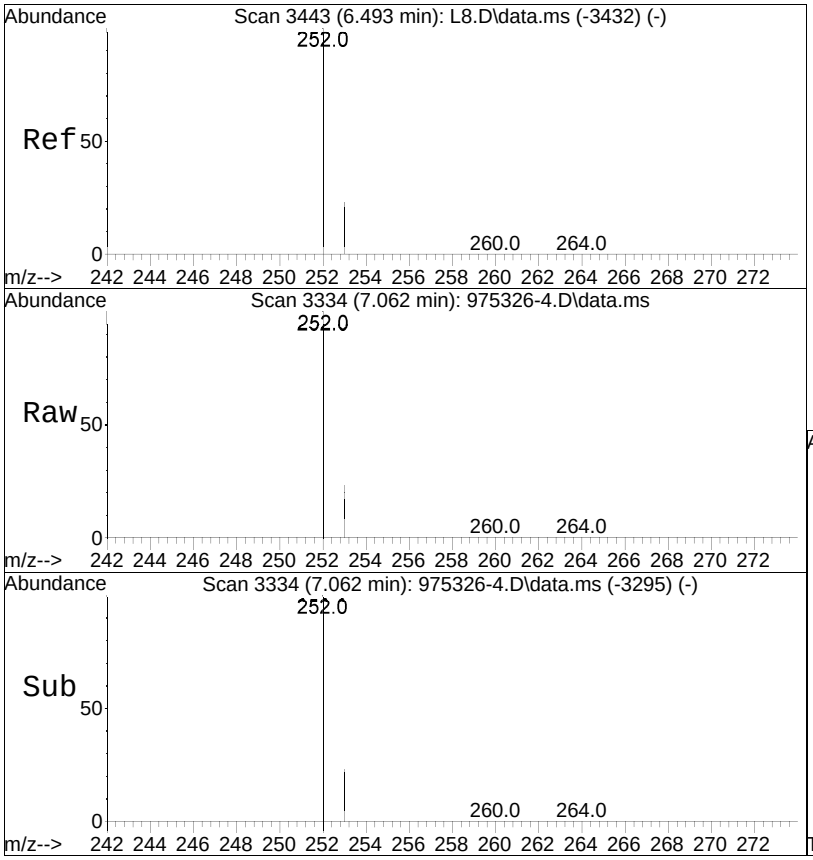


#34
Chrysene
Concen: 1174.76 ng/ml
RT: 6.262 min Scan# 2815
Delta R.T. -0.003 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:228 Resp: 485176

Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.9	35.9

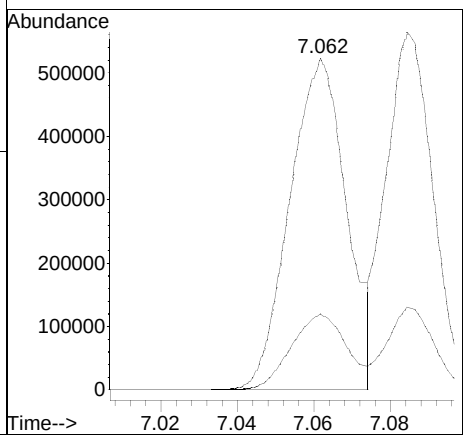


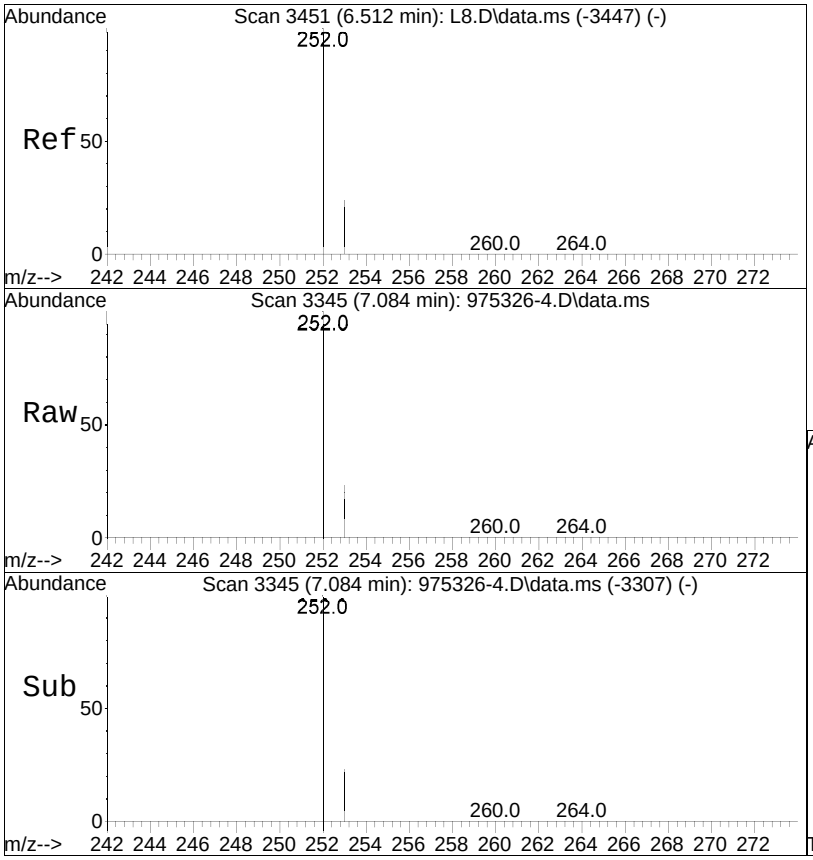


#37
Benzo[b]fluoranthene
Concen: 1103.40 ng/ml
RT: 7.062 min Scan# 3334
Delta R.T. 0.000 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:252 Resp: 537509

Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.0	27.0

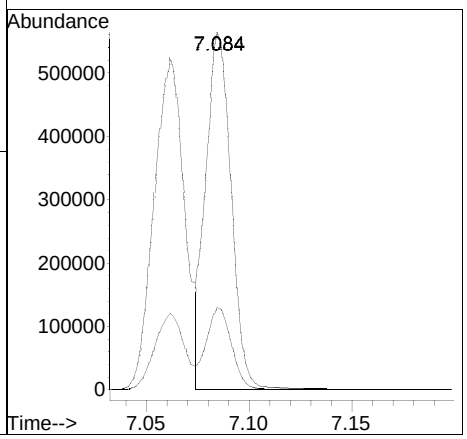


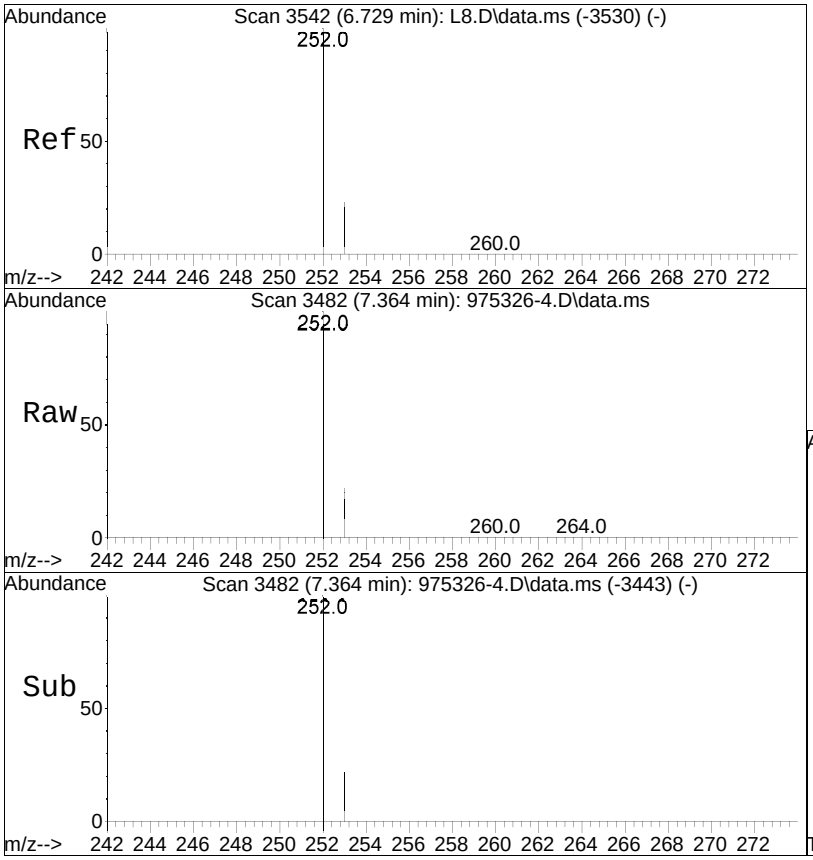


#38
Benzo[k]fluoranthene
Concen: 1067.76 ng/ml
RT: 7.084 min Scan# 3345
Delta R.T. -0.002 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:252 Resp: 480534

Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.3	27.5

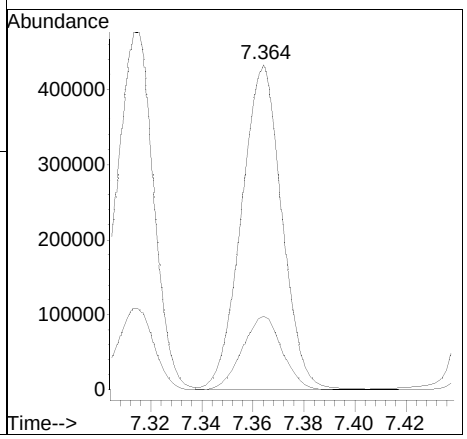


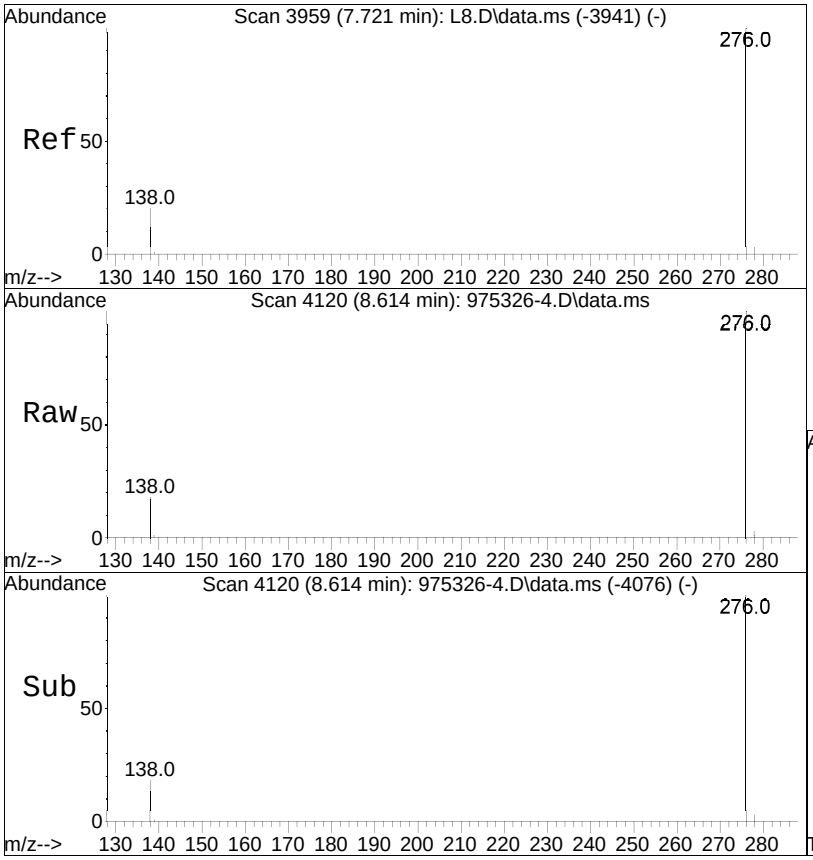


#39
Benzo[a]pyrene
Concen: 1089.75 ng/ml
RT: 7.364 min Scan# 3482
Delta R.T. 0.000 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:252 Resp: 470167

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9

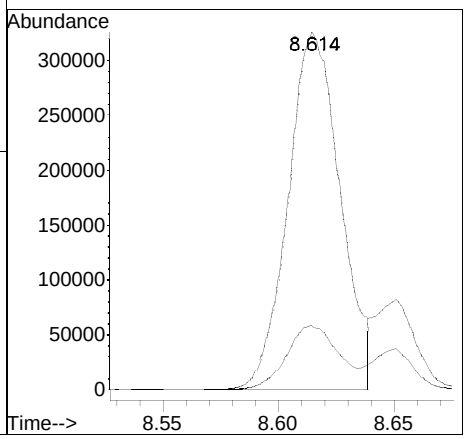


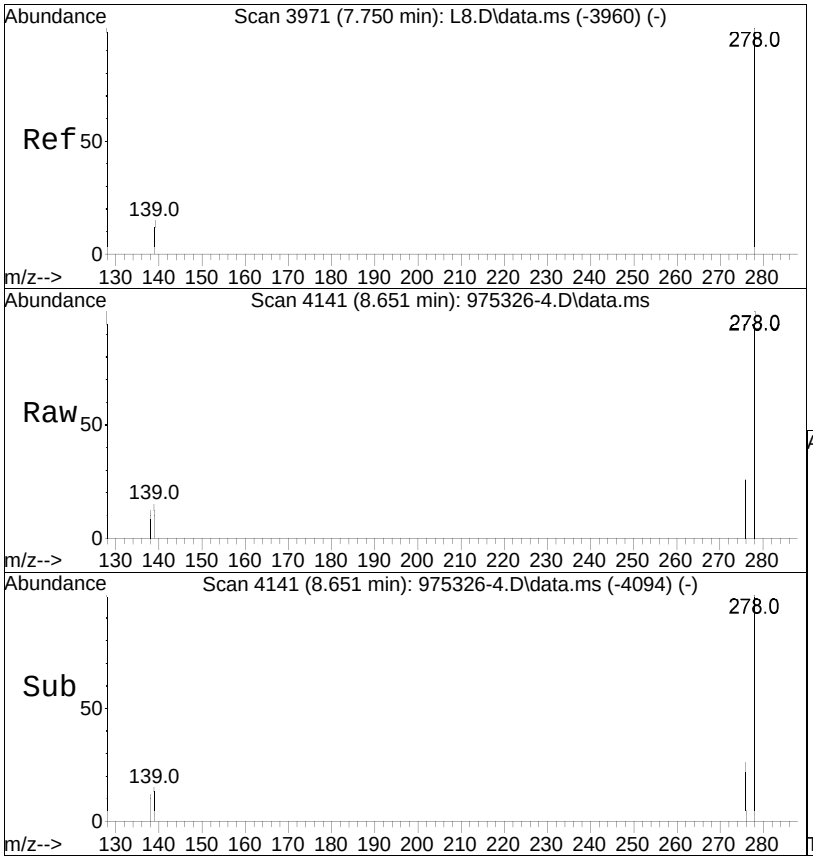


#40
Indeno[1,2,3-cd]pyrene
Concen: 1160.98 ng/ml
RT: 8.614 min Scan# 4120
Delta R.T. -0.003 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:276 Resp: 506353

Ion	Ratio	Lower	Upper
276	100		
138	17.8	15.1	22.7

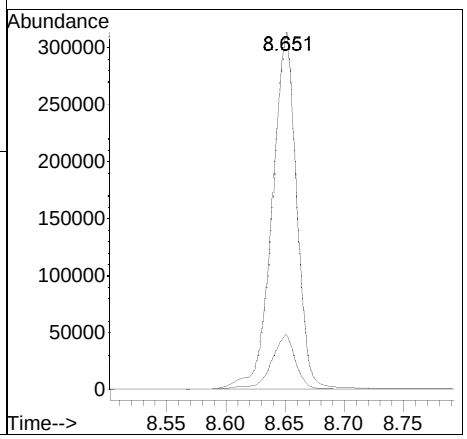


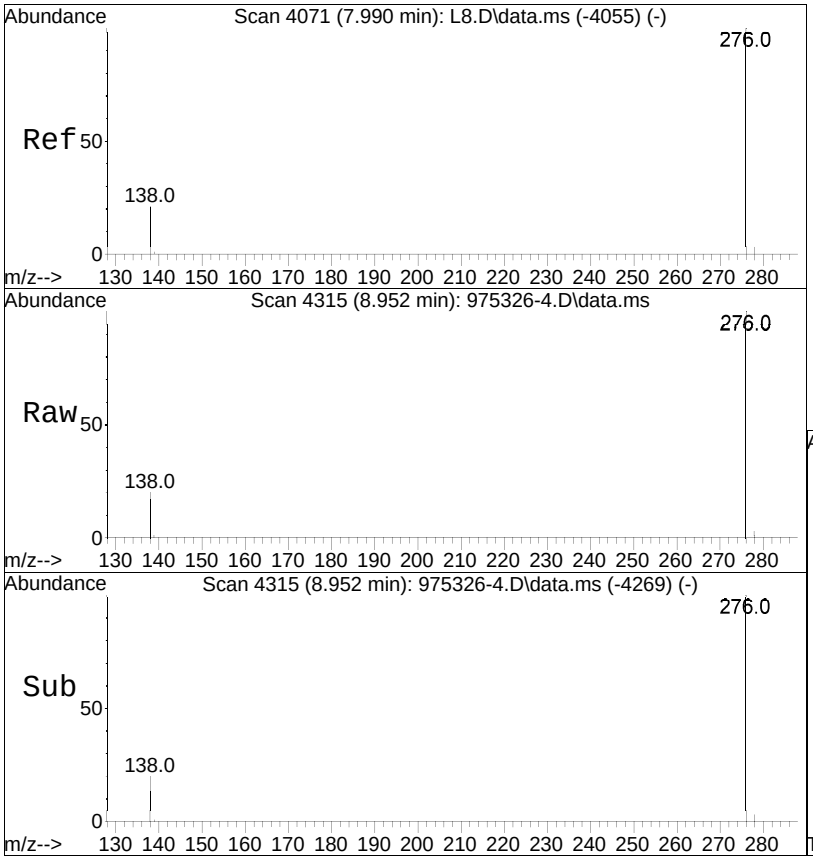


#41
Dibenzo[a,h]anthracene
Concen: 1142.79 ng/ml
RT: 8.651 min Scan# 4141
Delta R.T. 0.002 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:278 Resp: 443988

Ion	Ratio	Lower	Upper
278	100		
139	15.4	13.3	19.9

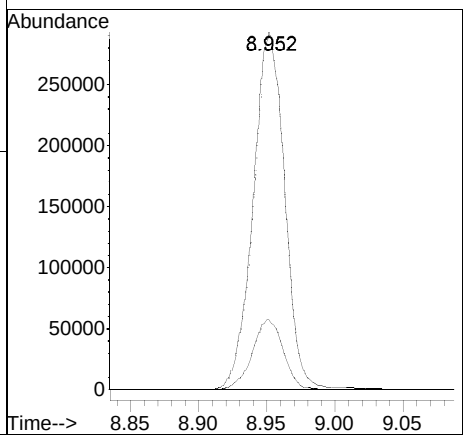




#42
Benzo[g,h,i]perylene
Concen: 1081.60 ng/ml
RT: 8.952 min Scan# 4315
Delta R.T. 0.000 min
Lab File: 975326-4.D
Acq: 25 Sep 2024 02:04 pm

Tgt Ion:276 Resp: 464004

Ion	Ratio	Lower	Upper
276	100		
138	19.6	16.9	25.3



Manual Integration Report

Data Path	: I:\8270SIM\sv119\240925RVTQ	Method	: SIM-RVT_240621_sv119.M
Data File	: 975326-4.D	Operator	: sv119:im
Date Inj'd	: 9/25/2024 2:04 pm	Instrument	: SV119
Sample	: WG1975326-4,32,,kmh	Quant Date	: 9/25/2024 2:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : 975326-5.D
Acq On : 25 Sep 2024 02:21 pm
Operator : sv119:im
Sample : WG1975326-5,32,,kmh
Misc : WG1976035,WG1975326,ical21236
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 25 14:33:49 2024
Quant Method : I:\8270sim\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240925RVT\ccv0925.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.231	152	147394	4000.000	ng/ml	0.00
Standard Area 1 = 191752			Recovery = 76.87%			
8) Naphthalene-d8	2.884	136	522056	4000.000	ng/ml	0.00
Standard Area 1 = 679198			Recovery = 76.86%			
17) Acenaphthene-d10	3.846	164	330093	4000.000	ng/ml	0.00
Standard Area 1 = 435185			Recovery = 75.85%			
22) Phenanthrene-d10	4.678	188	754052	4000.000	ng/ml	0.00
Standard Area 1 = 971629			Recovery = 77.61%			
31) Chrysene-d12	6.243	240	945823	4000.000	ng/ml	0.00
Standard Area 1 = 1032016			Recovery = 91.65%			
36) Perylene-d12	7.426	264	966356	4000.000	ng/ml	0.00
Standard Area 1 = 1026679			Recovery = 94.12%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.665	112	47754	918.455	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 45.92%			
3) Phenol-d6	2.052	99	44329	675.981	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 33.80%			
7) Nitrobenzene-d5	2.508	82	39275	682.776	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 68.28%			
13) 2-Fluorobiphenyl	3.470	172	104020	770.719	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.07%			
21) 2,4,6-Tribromophenol	4.287	330	35002	1518.676	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 75.93%			
30) 4-Terphenyl-d14	5.597	244	144425	692.840	ng/ml	0.00
Spiked Amount 2000.000	Range 30 - 130		Recovery = 34.64%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.096	93	71695	1360.815	ng/ml#	80
6) Hexachloroethane	2.484	117	28995	1185.687	ng/ml	89
9) Naphthalene	2.895	128	208640	1447.567	ng/ml	100
10) Hexachlorobutadiene	2.964	225	47156	1457.581	ng/ml	100
11) 2-Methylnaphthalene	3.267	142	158459	1462.894	ng/ml	99
14) 2-Chloronaphthalene	3.535	162	179508	1538.181	ng/ml	98
16) Acenaphthylene	3.766	152	263560	1413.585	ng/ml	100
18) Acenaphthene	3.864	153	172040	1493.121	ng/ml	100
20) Fluorene	4.152	166	220684	1453.143	ng/ml	100
24) Hexachlorobenzene	4.467	284	77472	1496.307	ng/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : 975326-5.D
Acq On : 25 Sep 2024 02:21 pm
Operator : sv119:im
Sample : WG1975326-5,32,,kmh
Misc : WG1976035,WG1975326,ical21236
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 25 14:33:49 2024
Quant Method : I:\8270sim\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:19 2024
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\240925RVT\ccv0925.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	4.579	266	51135	1541.533	ng/ml	99
26) Phenanthrene	4.690	178	326447	1489.163	ng/ml	99
27) Anthracene	4.718	178	346384	1529.337	ng/ml	99
28) Fluoranthene	5.371	202	439310	1459.471	ng/ml	96
29) Pyrene	5.504	202	454685	1457.709	ng/ml	99
32) Benzo[a]anthracene	6.238	228	503076	1409.037	ng/ml	100
34) Chrysene	6.259	228	521299	1480.890	ng/ml	98
37) Benzo[b]fluoranthene	7.060	252	567663	1418.296	ng/ml	100
38) Benzo[k]fluoranthene	7.084	252	517315	1399.049	ng/ml	100
39) Benzo[a]pyrene	7.362	252	500831	1412.846	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.616	276	549519	1533.496	ng/ml	98
41) Dibenzo[a,h]anthracene	8.651	278	477610	1496.227	ng/ml	97
42) Benzo[g,h,i]perylene	8.952	276	497862	1412.486	ng/ml	97

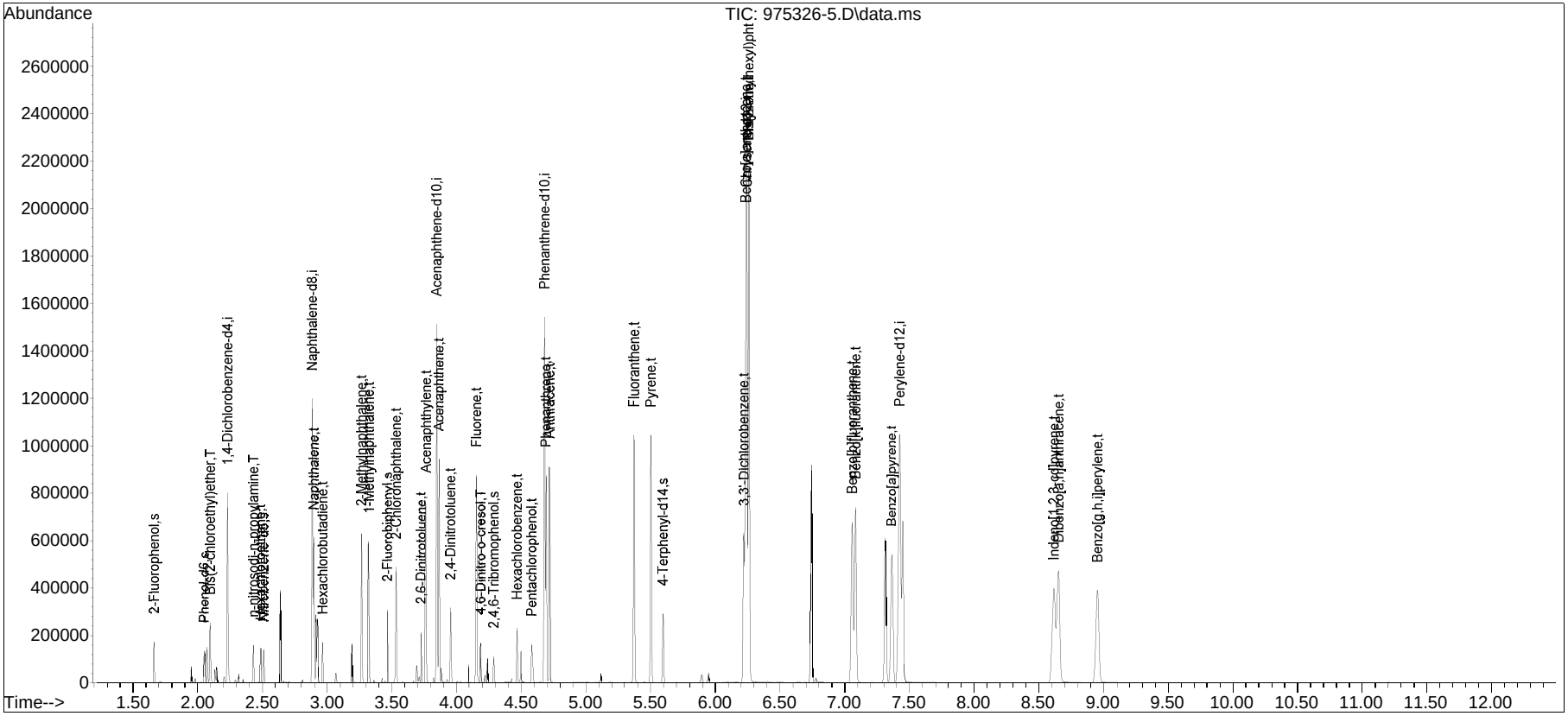
(#) = qualifier out of range (m) = manual integration (+) = signals summed

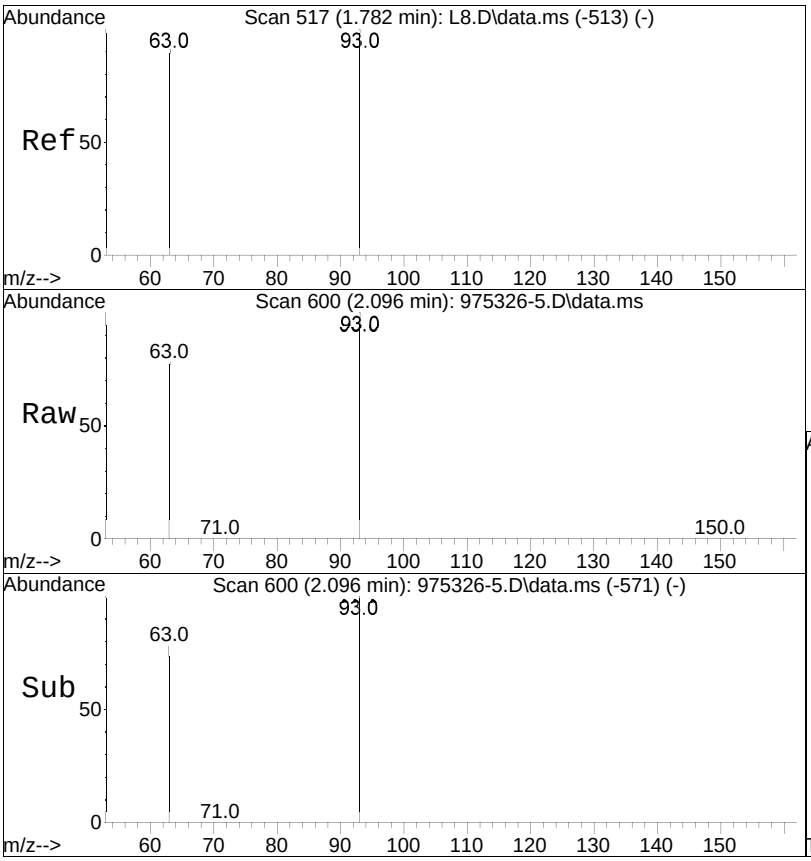
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\240925RVT\
Data File : 975326-5.D
Acq On : 25 Sep 2024 02:21 pm
Operator : sv119:im
Sample : WG1975326-5,32,,kmh
Misc : WG1976035,WG1975326,ical21236
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 25 14:33:49 2024
Quant Method : I:\8270sim\sv119\240925RVT\SIM-RVT_240621_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 25 08:33:19 2024
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv0925.D•

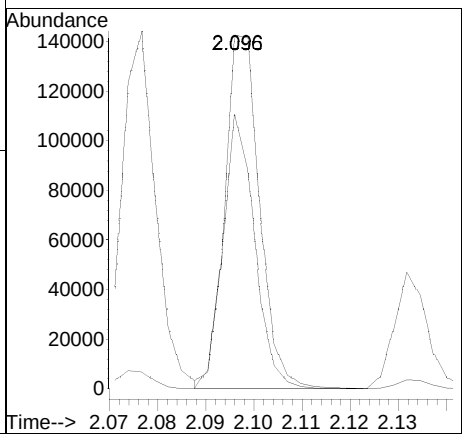


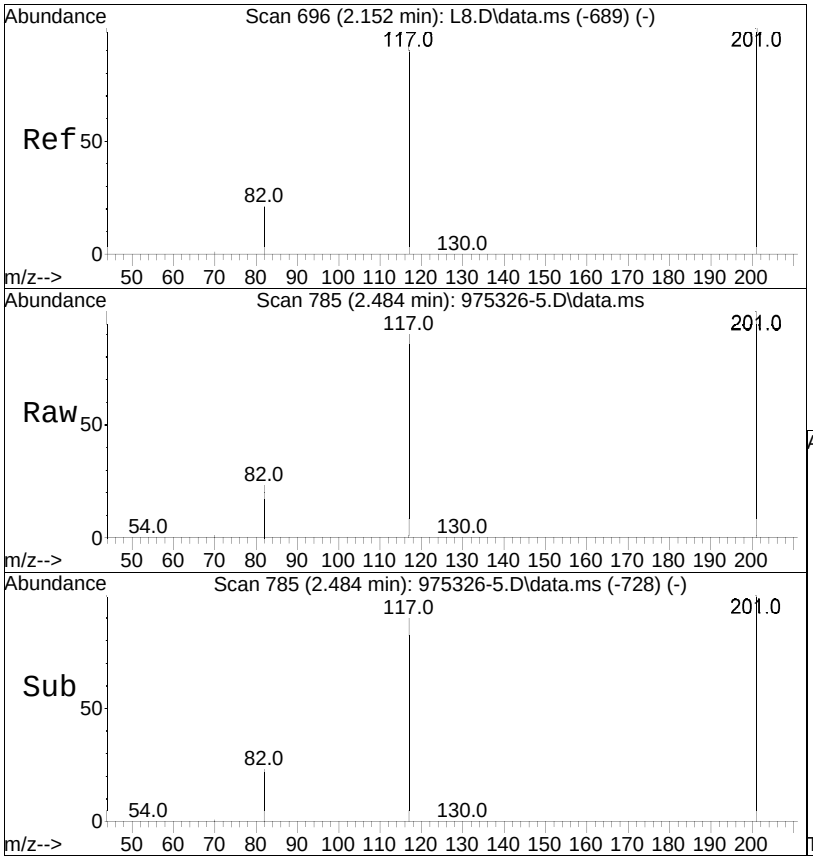


#4
Bis(2-chloroethyl)ether
Concen: 1360.82 ng/ml
RT: 2.096 min Scan# 600
Delta R.T. 0.000 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion: 93 Resp: 71695

Ion	Ratio	Lower	Upper
93	100		
63	70.8	71.7	107.5#

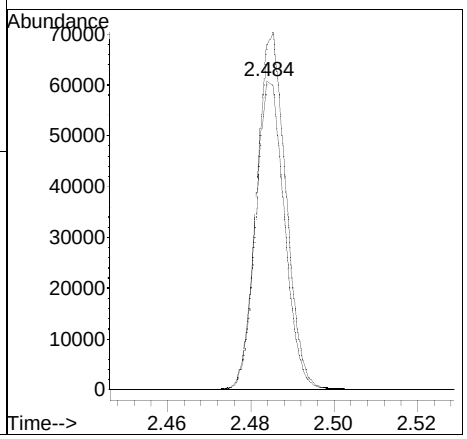


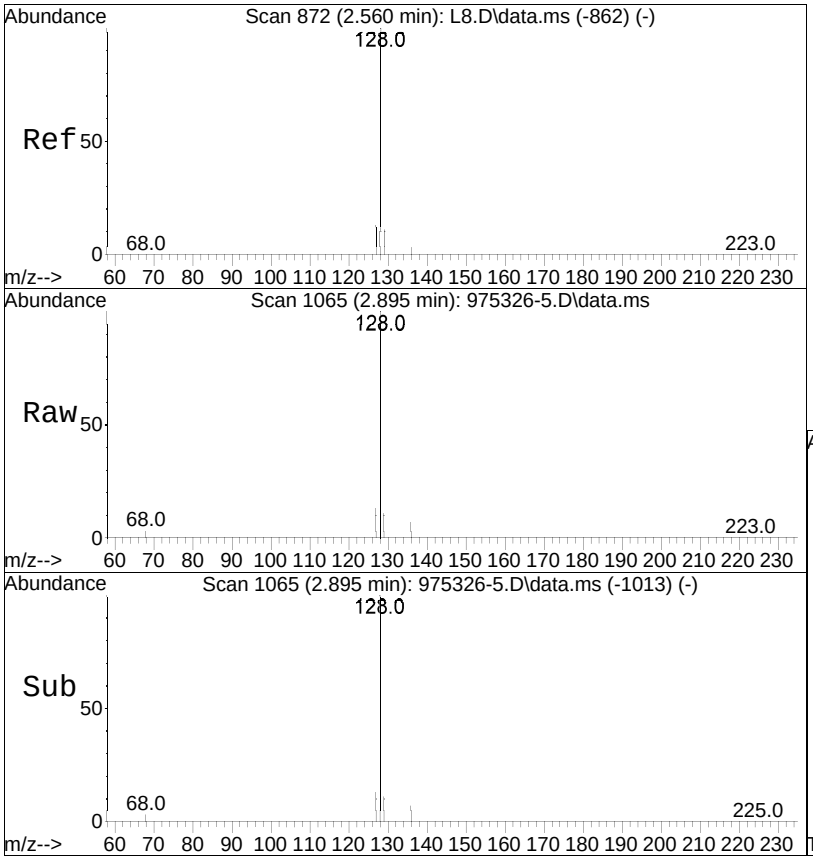


#6
Hexachloroethane
Concen: 1185.69 ng/ml
RT: 2.484 min Scan# 785
Delta R.T. 0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:117 Resp: 28995

Ion	Ratio	Lower	Upper
117	100		
201	115.0	83.0	124.6

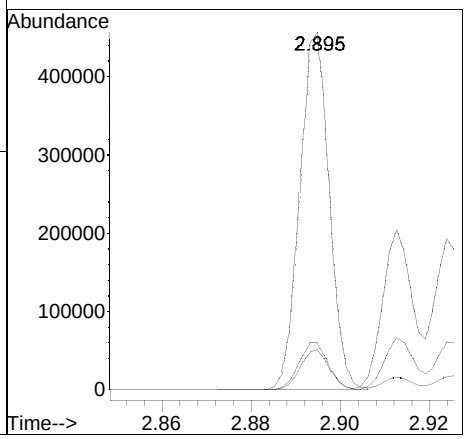


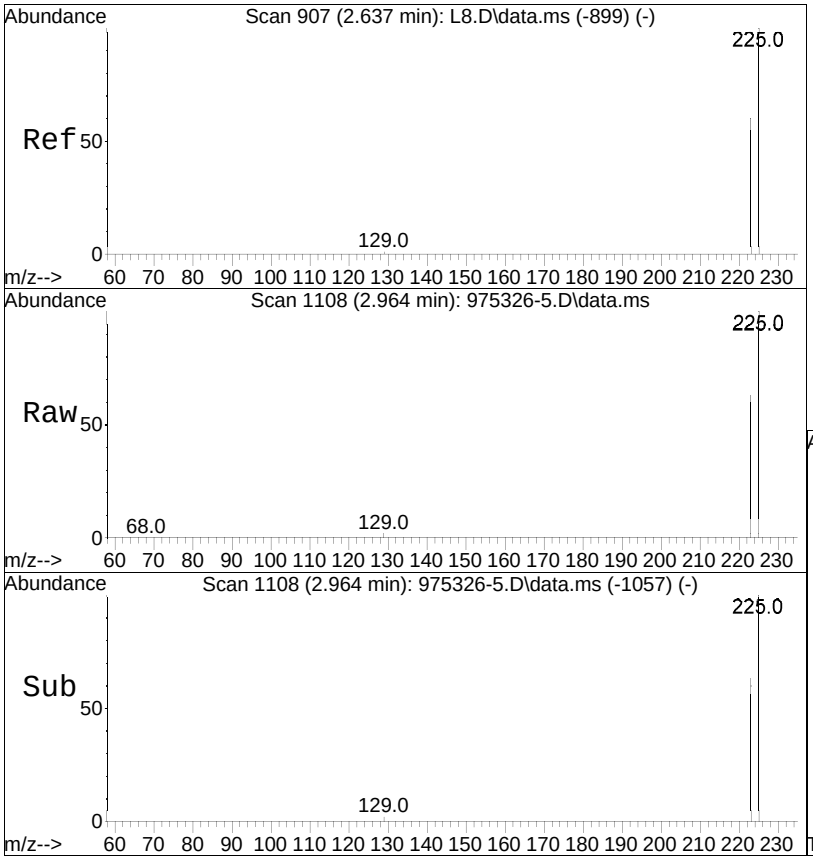


#9
Naphthalene
Concen: 1447.57 ng/ml
RT: 2.895 min Scan# 1065
Delta R.T. 0.003 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:128 Resp: 208640

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.2	10.6	15.8

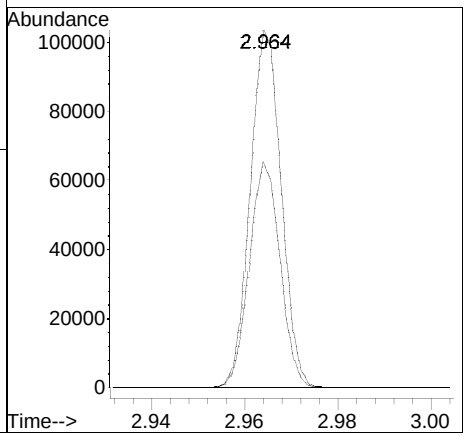


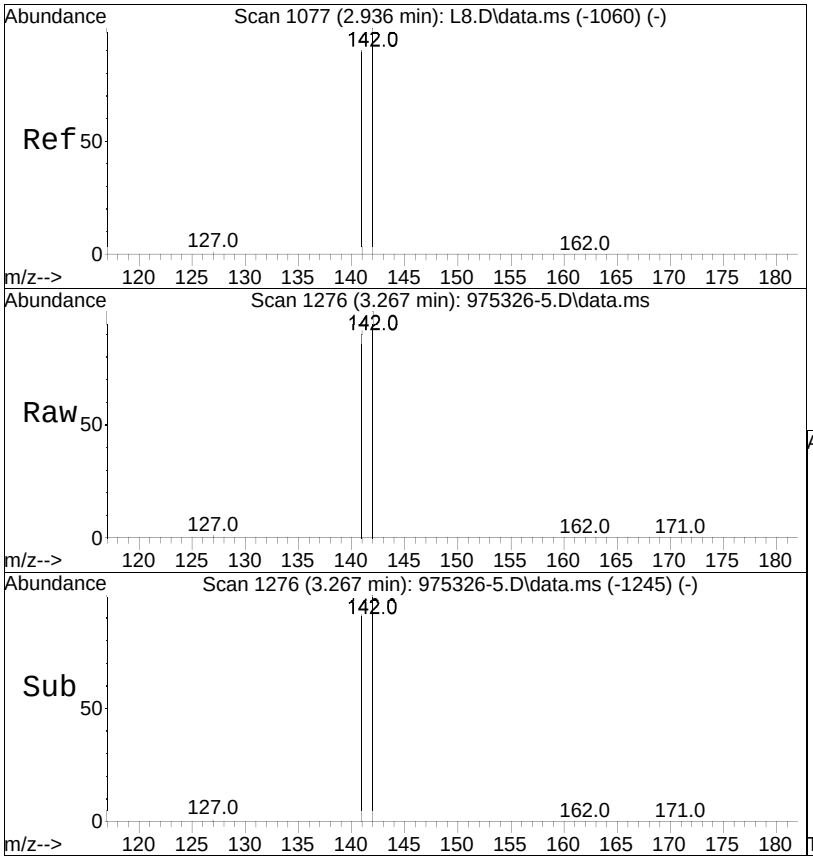


#10
Hexachlorobutadiene
Concen: 1457.58 ng/ml
RT: 2.964 min Scan# 1108
Delta R.T. 0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:225 Resp: 47156

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.2

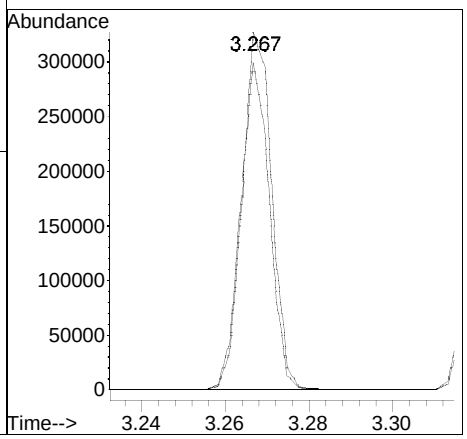


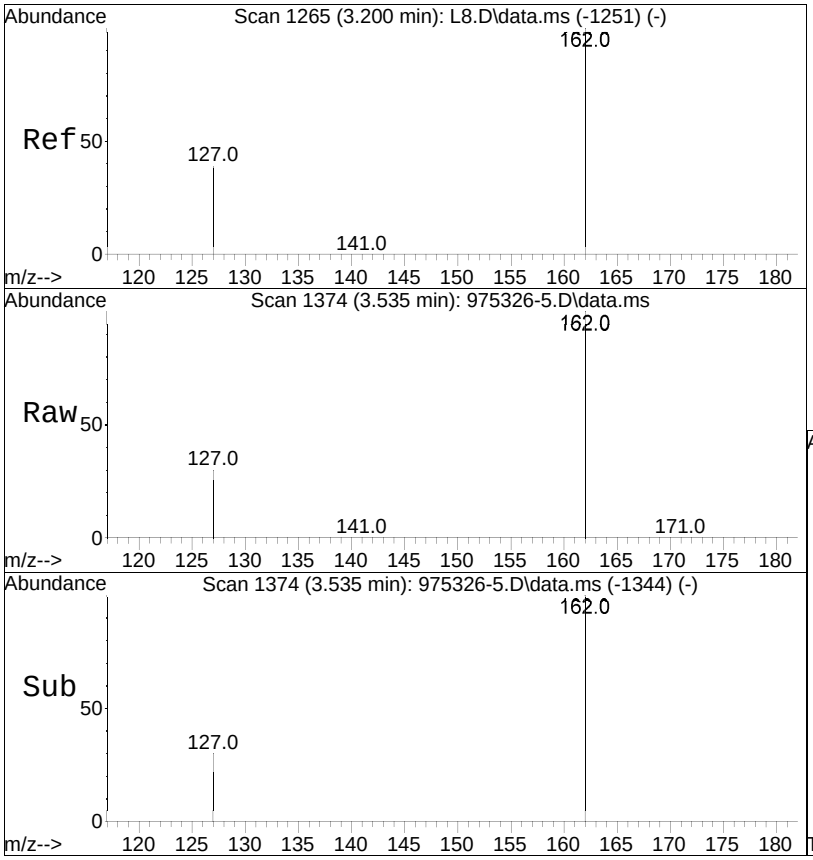


#11
2-Methylnaphthalene
Concen: 1462.89 ng/ml
RT: 3.267 min Scan# 1276
Delta R.T. 0.003 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:142 Resp: 158459

Ion	Ratio	Lower	Upper
142	100		
141	89.5	72.3	108.5

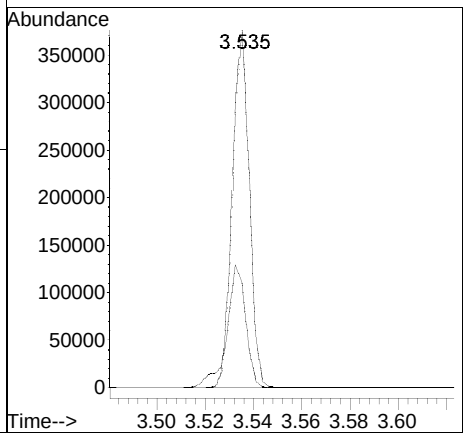


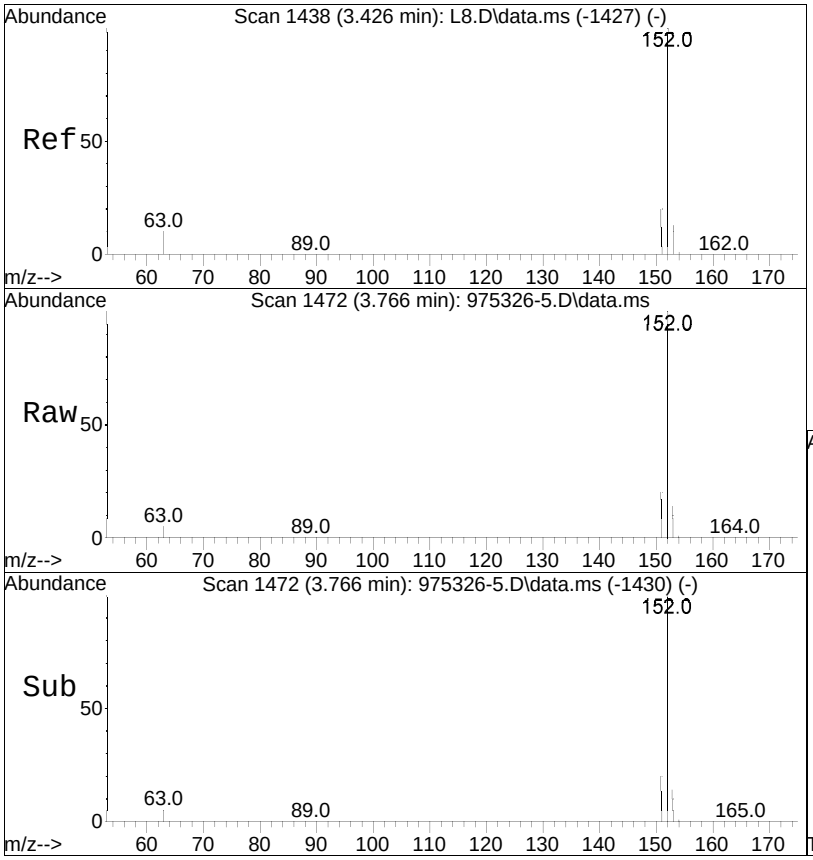


#14
2-Chloronaphthalene
Concen: 1538.18 ng/ml
RT: 3.535 min Scan# 1374
Delta R.T. 0.003 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:162 Resp: 179508

Ion	Ratio	Lower	Upper
162	100		
127	38.7	32.0	48.0

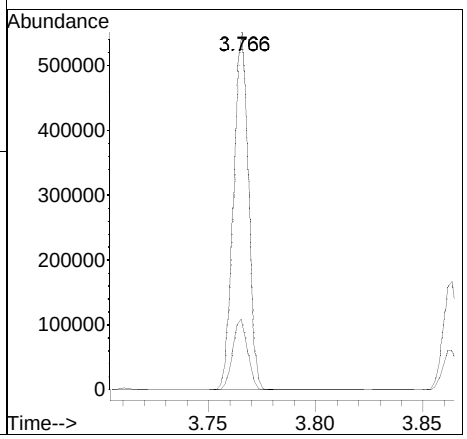


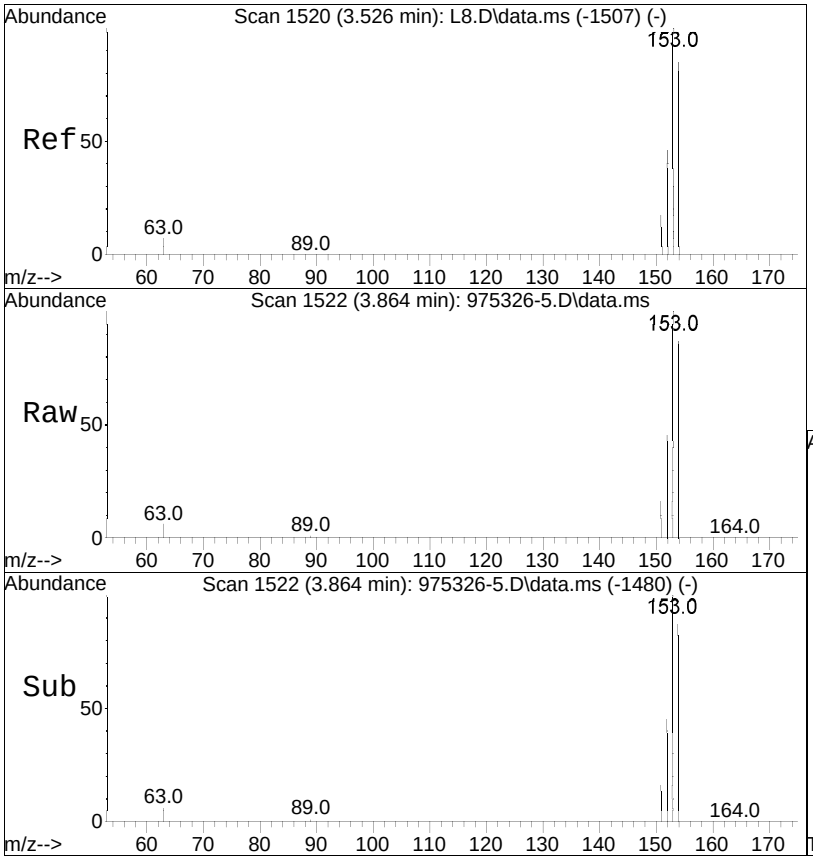


#16
Acenaphthylene
Concen: 1413.58 ng/ml
RT: 3.766 min Scan# 1472
Delta R.T. 0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:152 Resp: 263560

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0

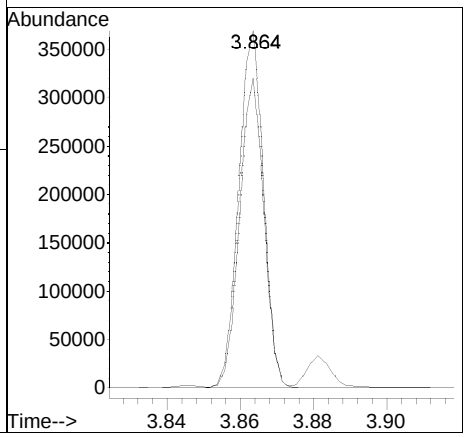


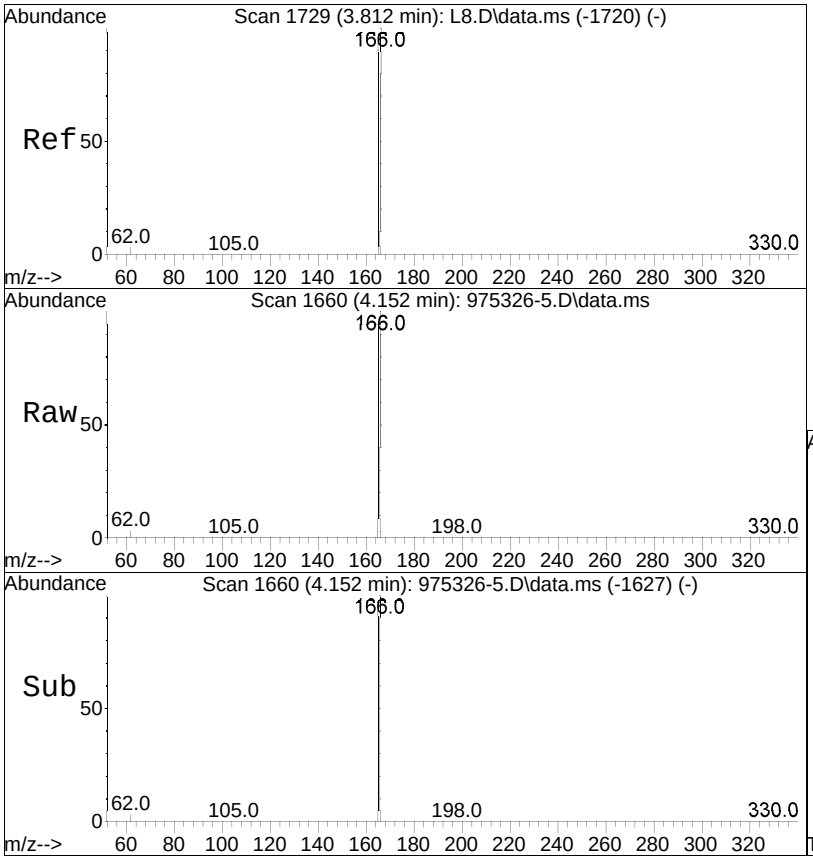


#18
Acenaphthene
Concen: 1493.12 ng/ml
RT: 3.864 min Scan# 1522
Delta R.T. 0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:153 Resp: 172040

Ion	Ratio	Lower	Upper
153	100		
154	85.1	68.1	102.1

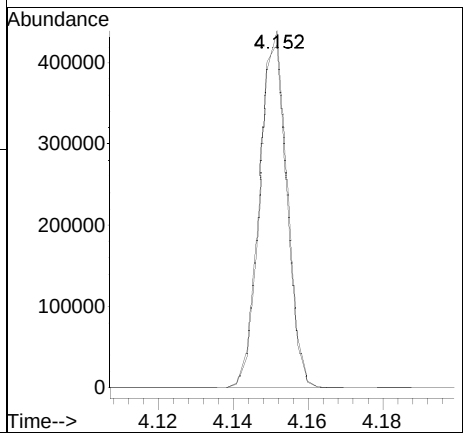


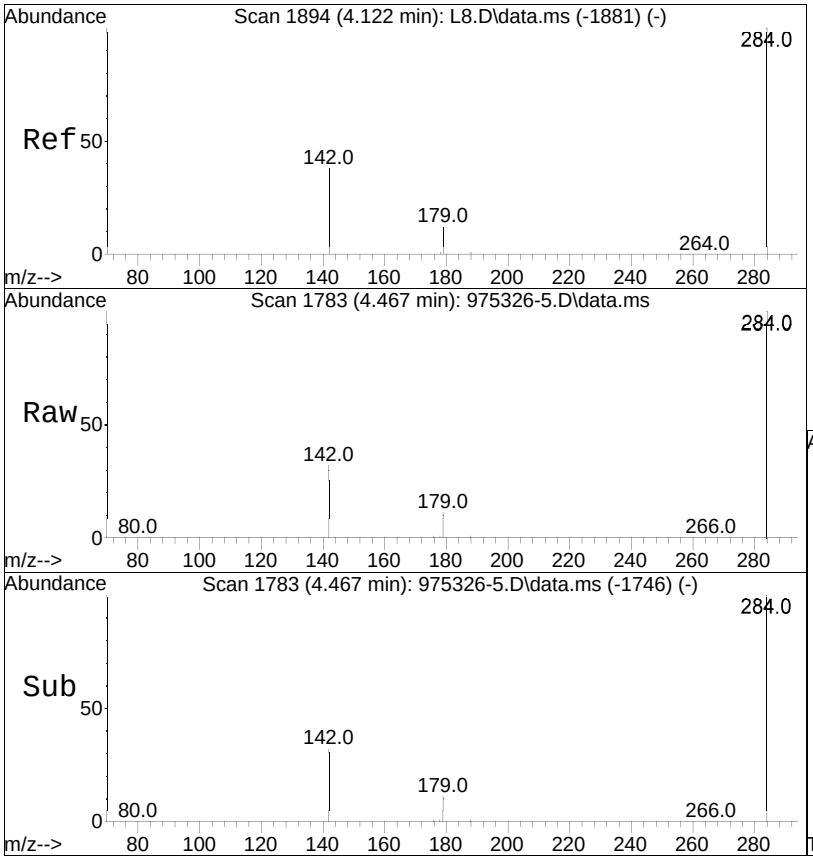


#20
Fluorene
Concen: 1453.14 ng/ml
RT: 4.152 min Scan# 1660
Delta R.T. 0.003 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:166 Resp: 220684

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.3	118.9

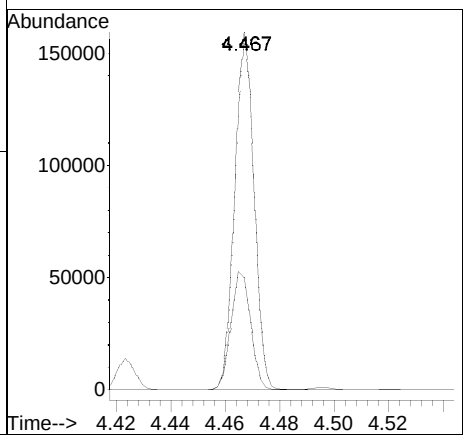


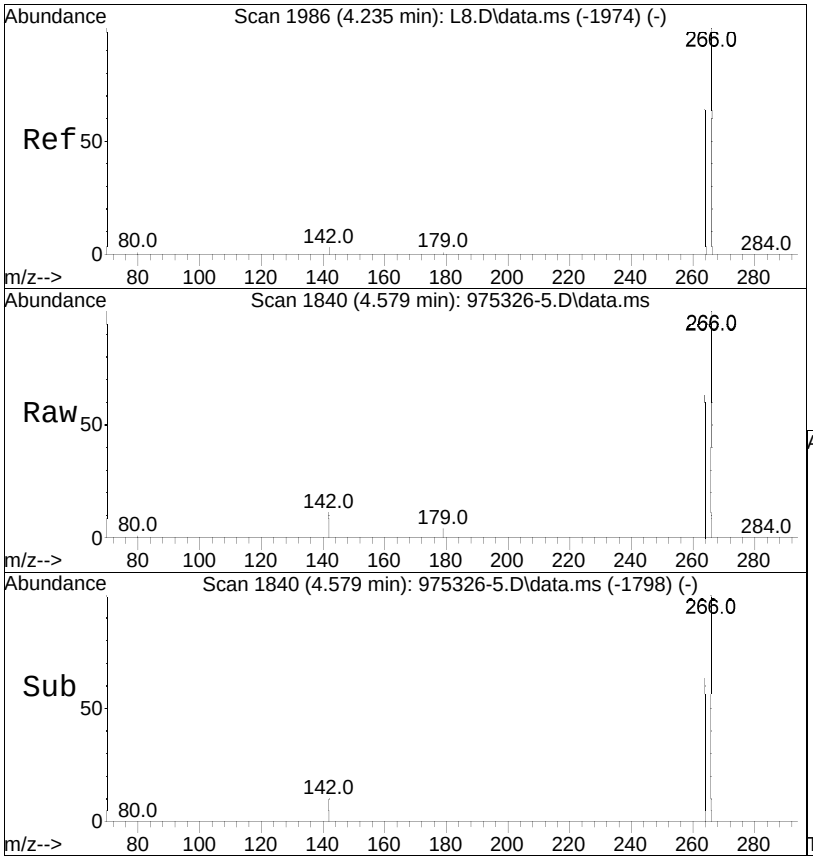


#24
Hexachlorobenzene
Concen: 1496.31 ng/ml
RT: 4.467 min Scan# 1783
Delta R.T. 0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:284 Resp: 77472

Ion	Ratio	Lower	Upper
284	100		
142	34.0	30.0	45.0

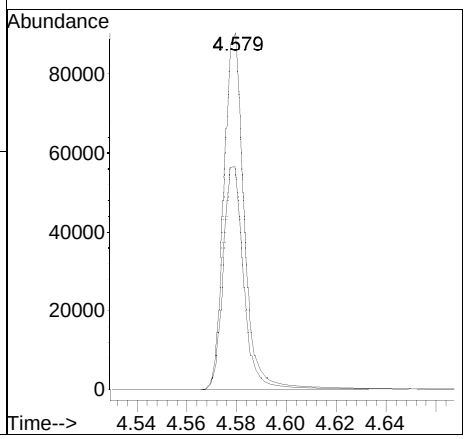


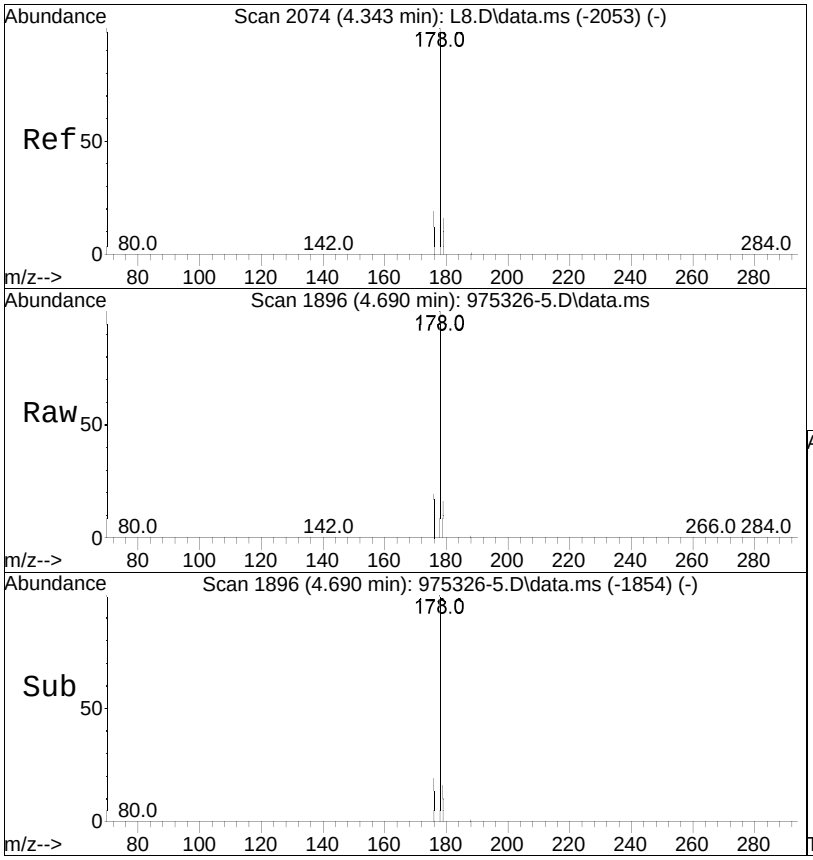


#25
Pentachlorophenol
Concen: 1541.53 ng/ml
RT: 4.579 min Scan# 1840
Delta R.T. 0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:266 Resp: 51135

Ion	Ratio	Lower	Upper
266	100		
264	63.4	49.9	74.9

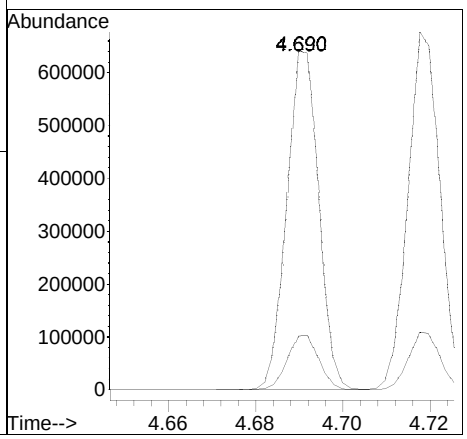


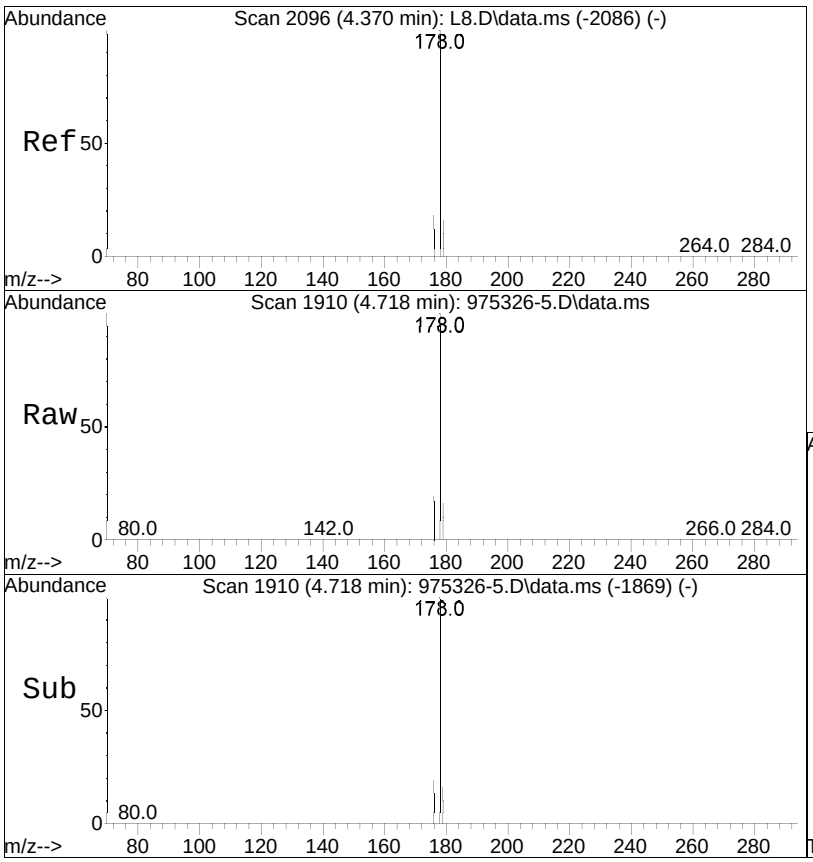


#26
Phenanthrene
Concen: 1489.16 ng/ml
RT: 4.690 min Scan# 1896
Delta R.T. 0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:178 Resp: 326447

Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.6	18.8

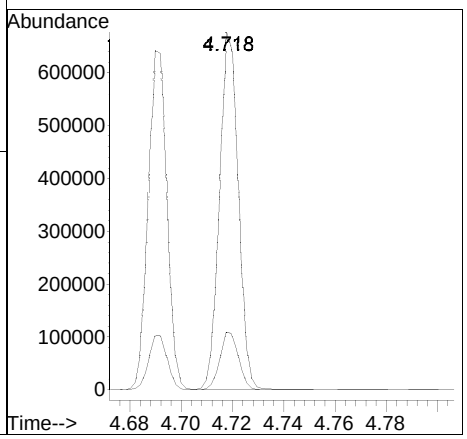


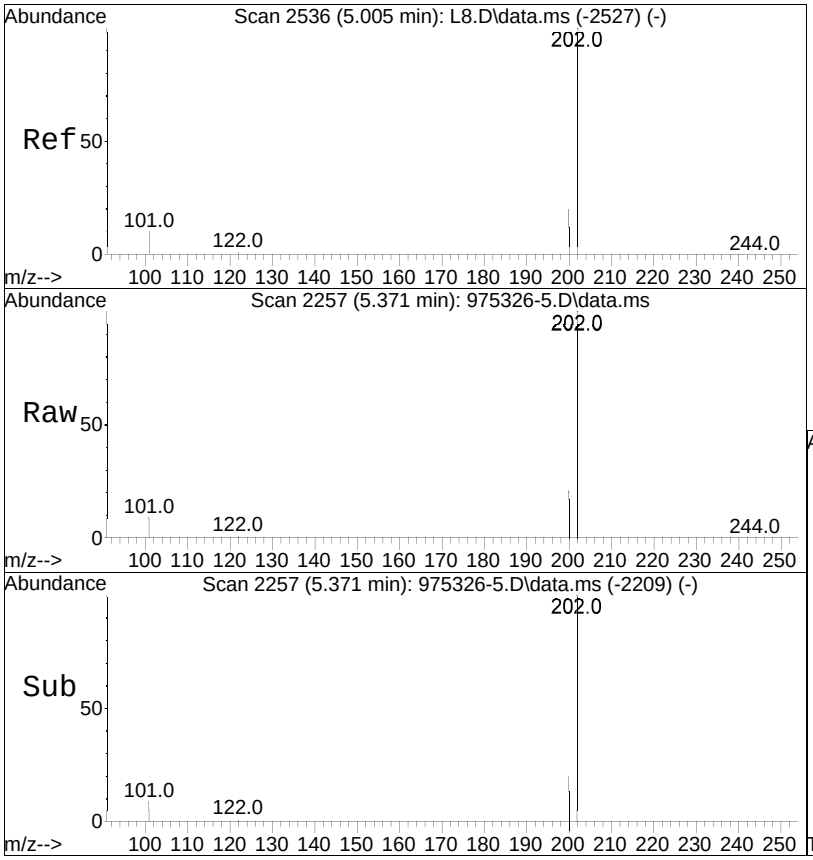


#27
Anthracene
Concen: 1529.34 ng/ml
RT: 4.718 min Scan# 1910
Delta R.T. 0.000 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:178 Resp: 346384

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.4	18.6

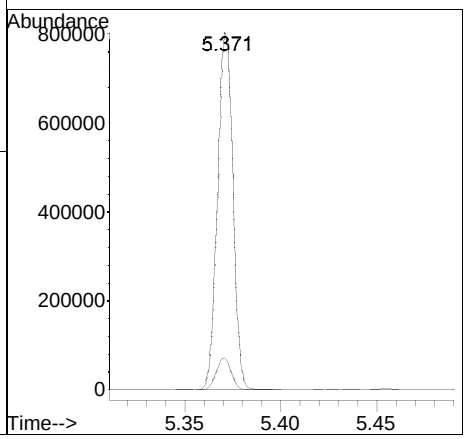


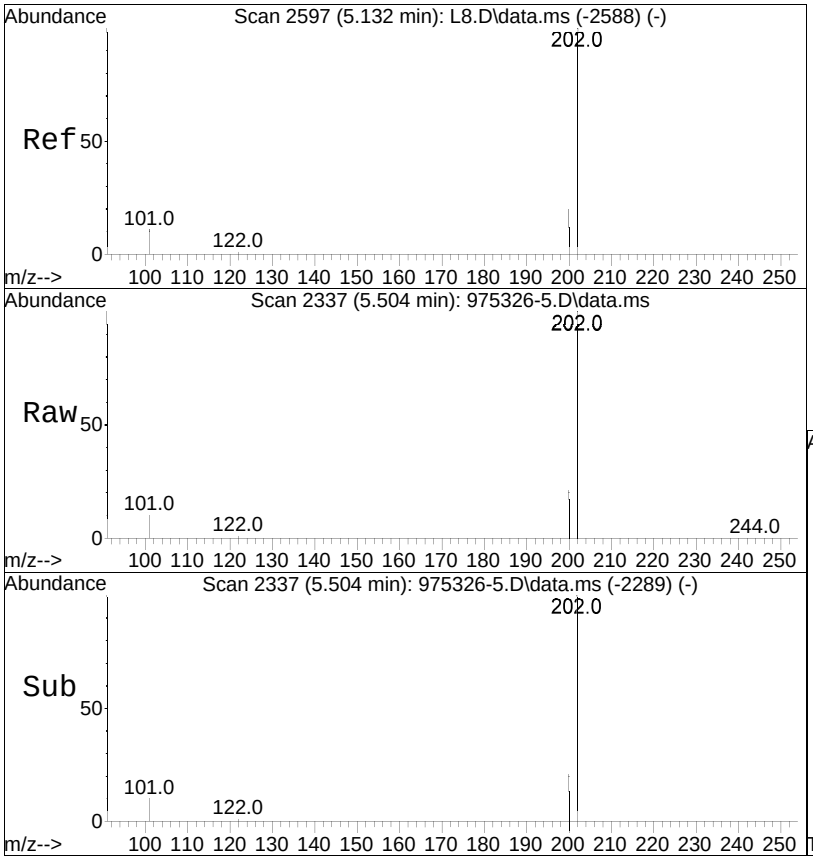


#28
Fluoranthene
Concen: 1459.47 ng/ml
RT: 5.371 min Scan# 2257
Delta R.T. 0.000 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:202 Resp: 439310

Ion	Ratio	Lower	Upper
202	100		
101	8.8	8.1	12.1

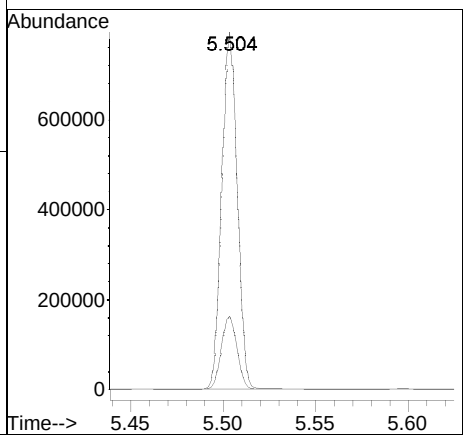


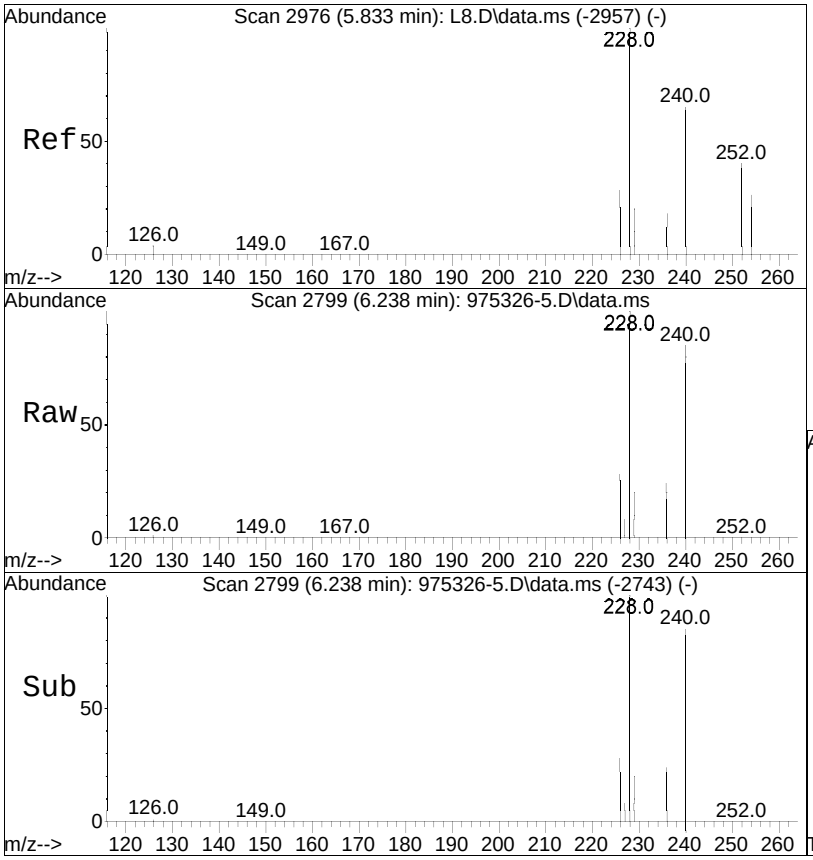


#29
Pyrene
Concen: 1457.71 ng/ml
RT: 5.504 min Scan# 2337
Delta R.T. 0.000 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:202 Resp: 454685

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.5	24.7

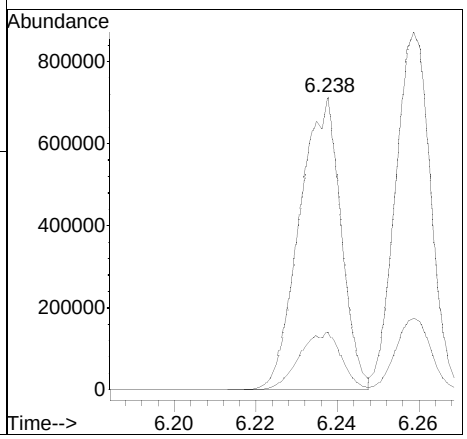


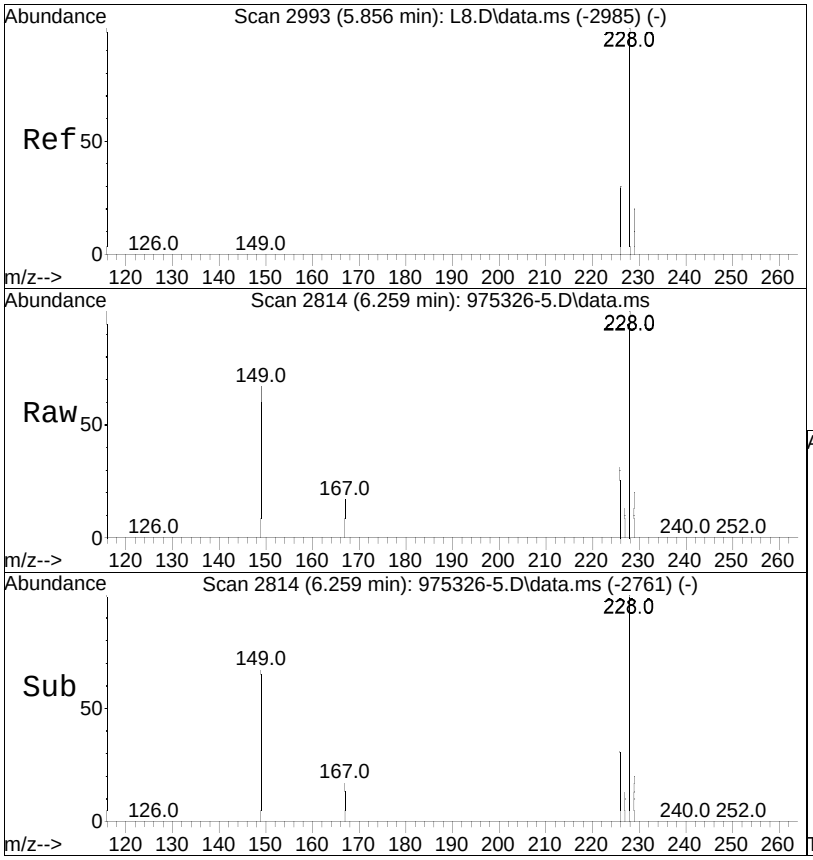


#32
Benzo[a]anthracene
Concen: 1409.04 ng/ml
RT: 6.238 min Scan# 2799
Delta R.T. -0.001 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:228 Resp: 503076

Ion	Ratio	Lower	Upper
228	100		
229	19.9	15.8	23.8

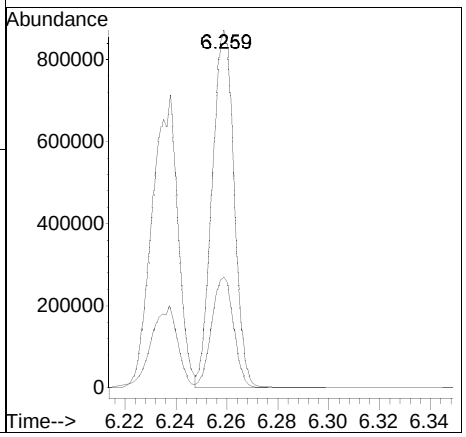


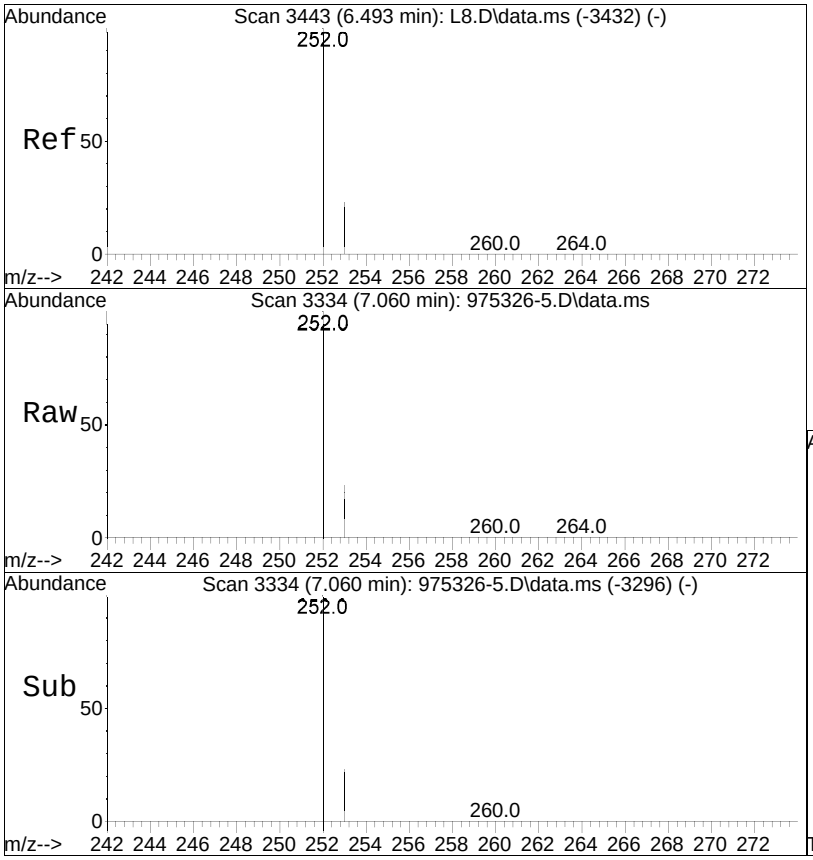


#34
Chrysene
Concen: 1480.89 ng/ml
RT: 6.259 min Scan# 2814
Delta R.T. -0.005 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:228 Resp: 521299

Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.9	35.9

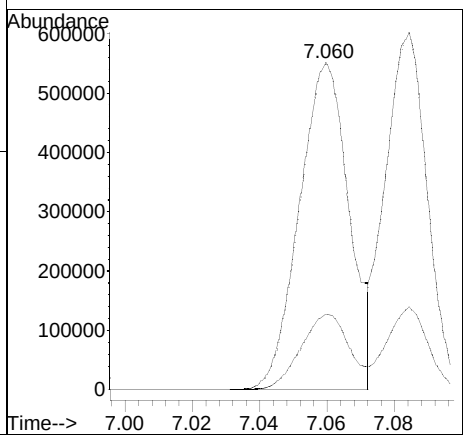


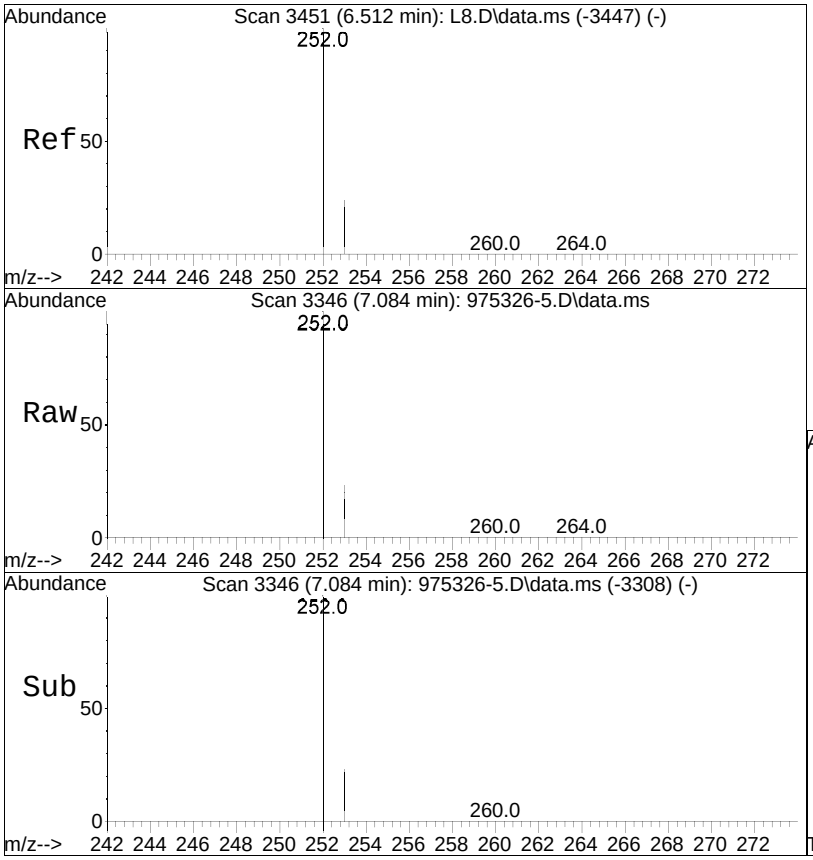


#37
Benzo[b]fluoranthene
Concen: 1418.30 ng/ml
RT: 7.060 min Scan# 3334
Delta R.T. -0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:252 Resp: 567663

Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0

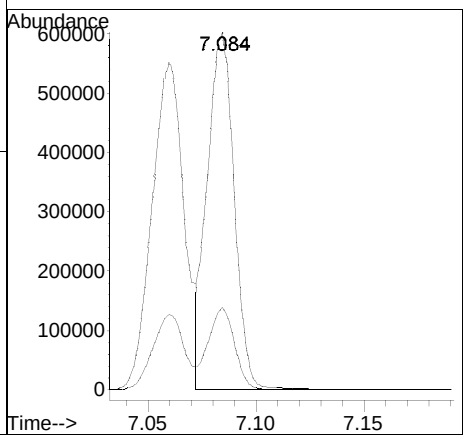


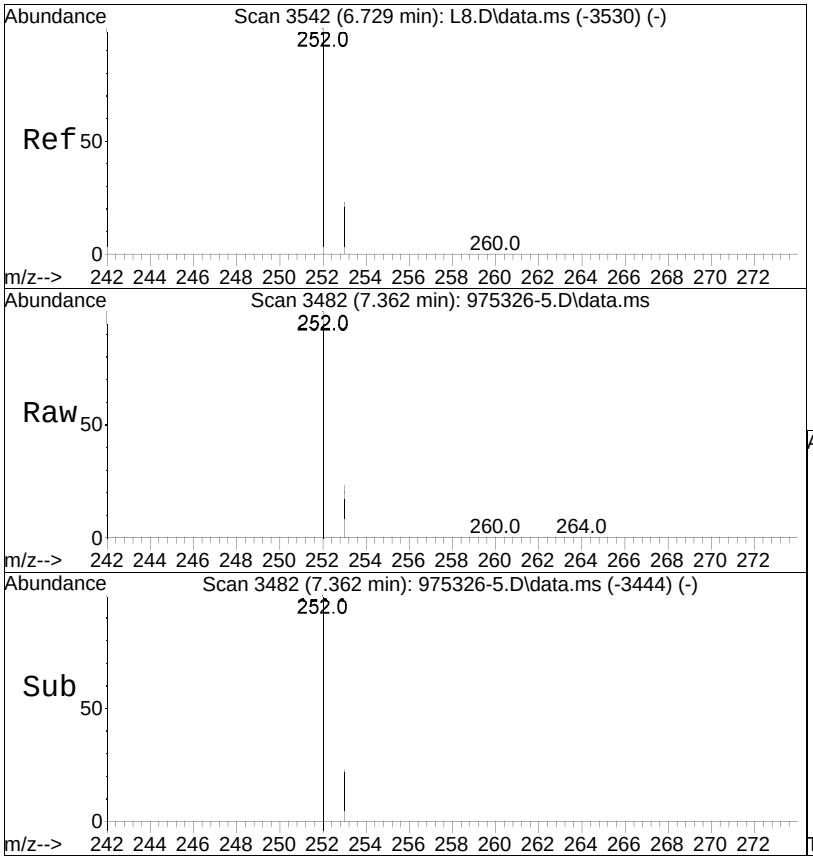


#38
Benzo[k]fluoranthene
Concen: 1399.05 ng/ml
RT: 7.084 min Scan# 3346
Delta R.T. -0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:252 Resp: 517315

Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.3	27.5

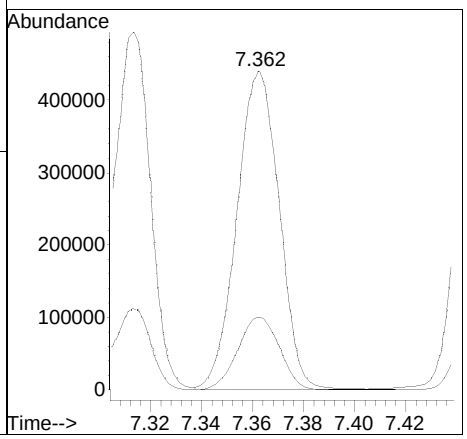


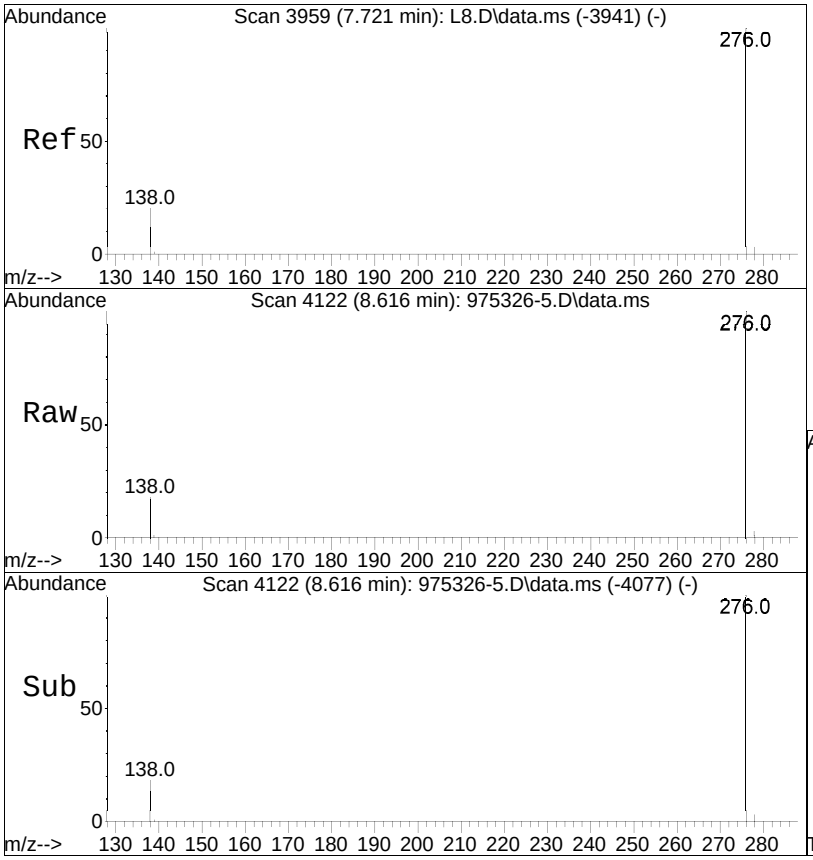


#39
Benzo[a]pyrene
Concen: 1412.85 ng/ml
RT: 7.362 min Scan# 3482
Delta R.T. -0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:252 Resp: 500831

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9

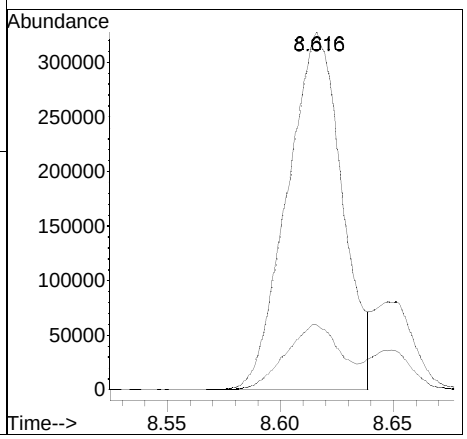


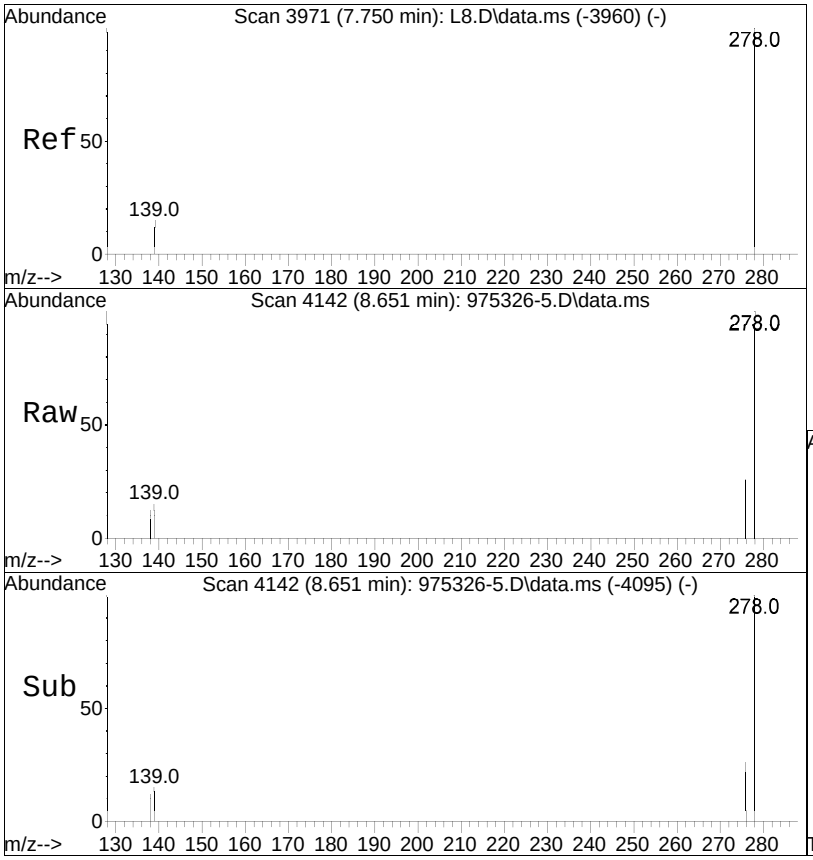


#40
Indeno[1,2,3-cd]pyrene
Concen: 1533.50 ng/ml
RT: 8.616 min Scan# 4122
Delta R.T. -0.001 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:276 Resp: 549519

Ion	Ratio	Lower	Upper
276	100		
138	18.0	15.1	22.7

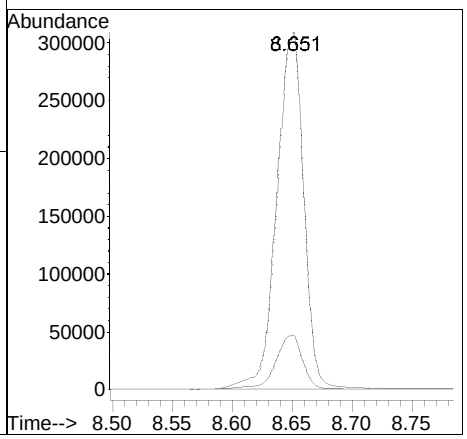


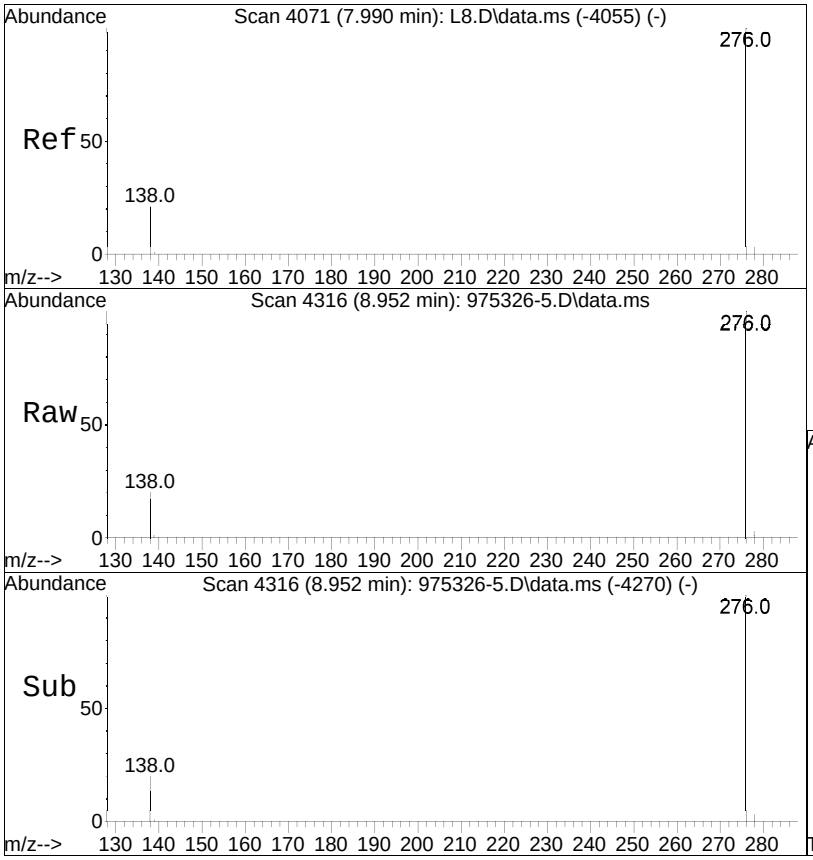


#41
Dibenzo[a,h]anthracene
Concen: 1496.23 ng/ml
RT: 8.651 min Scan# 4142
Delta R.T. 0.002 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:278 Resp: 477610

Ion	Ratio	Lower	Upper
278	100		
139	15.4	13.3	19.9

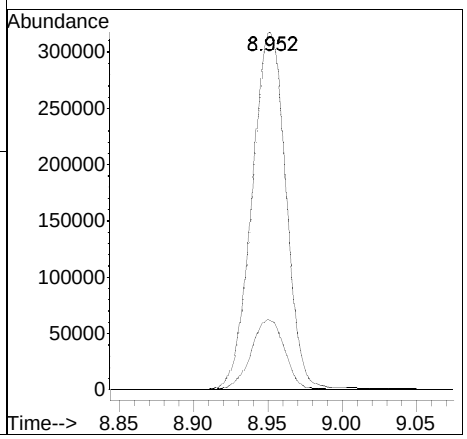




#42
Benzo[g,h,i]perylene
Concen: 1412.49 ng/ml
RT: 8.952 min Scan# 4316
Delta R.T. 0.000 min
Lab File: 975326-5.D
Acq: 25 Sep 2024 02:21 pm

Tgt Ion:276 Resp: 497862

Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.9	25.3



Manual Integration Report

Data Path	: I:\8270SIM\sv119\240925RVTQ	Method	: SIM-RVT_240621_sv119.M
Data File	: 975326-5.D	Operator	: sv119:im
Date Inj'd	: 9/25/2024 2:21 pm	Instrument	: SV119
Sample	: WG1975326-5,32,,kmh	Quant Date	: 9/25/2024 2:35 pm

There are no manual integrations or false positives in this file.

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 26 2024, 11:08 am

Work Group: WG1975326 for Department: 2 Organic Preparation

Created: 24-SEP-24 Due: Operator: ARP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453335-06	HRP-MW1-091724	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0924	0924	S0	Amber-A.1
L2453720-01	MW-8S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-02	MW-8D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-03	DUP_091824	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-04	EQUIPMENT BLANK	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-06	MW-5D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-07	PZ-5	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-08	MW-12S	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
L2453720-09	MW-12D	C	NYTCL-8270-SIM-RVT	WATER	DONE	U	0925	0925	S0	Amber-A.1
WG1975326-1	Laboratory Method Bl	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1975326-2	Laboratory Control S	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1975326-3	LCS Duplicate	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1975326-4	Matrix Spike	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG1975326-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-RVT	WATER	DONE	U				

Comments:

WG1975326-3	WG1975326-2
WG1975326-4	L2453720-02
WG1975326-5	L2453720-02

Analysis log File

Total Files Reported in Log : 13
Log Generated From Directory: I:\8270SIM\sv119\240621RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPRVT.M	TUNE	WG1939716,,ical	6/21/2024 2:09 pm
2	L10.D	SIM-RVT.M	IL10,32,, #10462 5000 n	WG1939716,,ical	6/21/2024 2:50 pm
3	L9.D	SIM-RVT.M	IL9,32,, #10755 2500 ng	WG1939716,,ical	6/21/2024 3:06 pm
4	L8.D	SIM-RVT.M	IL8,32,, #10463 1000 ng	WG1939716,,ical	6/21/2024 3:23 pm
5	L7.D	SIM-RVT.M	IL7,32,, #10756 500 ng/	WG1939716,,ical	6/21/2024 3:39 pm
6	L6.D	SIM-RVT.M	IL6,32,, #10465 100 ng/	WG1939716,,ical	6/21/2024 3:55 pm
7	L5.D	SIM-RVT.M	IL5,32,, #10757 40 ng/m	WG1939716,,ical	6/21/2024 4:12 pm
8	L4.D	SIM-RVT.M	IL4,32,, #10468 10 ng/m	WG1939716,,ical	6/21/2024 4:28 pm
9	L3.D	SIM-RVT.M	IL3,32,, #10469 5 ng/ml	WG1939716,,ical	6/21/2024 4:44 pm
10	L2.D	SIM-RVT.M	IL2,32,, #10758 2 ng/ml	WG1939716,,ical	6/21/2024 5:01 pm
11	L1.D	SIM-RVT.M	IL1,32,, #10759 1 ng/ml	WG1939716,,ical	6/21/2024 5:17 pm
12	ICV.D	SIM-RVT.M	CQICV,32,, #10475 1000	WG1939716,,ical	6/21/2024 5:33 pm
13	instblk.D	SIM-RVT.M			6/21/2024 5:50 pm

Analysis log File

Total Files Reported in Log : 13
Log Generated From Directory: I:\8270SIM\sv120\240728RVTical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPRVT.M	TUNE	WG1955532,,ical	7/28/2024 4:34 pm
2	IL10.D	fast-SIM-RVT	IL10,32,,5000.0ng/mL lo	WG1955532,,ical	7/28/2024 4:50 pm
3	IL9.D	fast-SIM-RVT	IL9,32,,2500.0ng/mL lot	WG1955532,,ical	7/28/2024 5:07 pm
4	IL8.D	fast-SIM-RVT	IL8,32,,1000.0ng/mL lot	WG1955532,,ical	7/28/2024 5:23 pm
5	IL7.D	fast-SIM-RVT	IL7,32,,500.0ng/mL lot#	WG1955532,,ical	7/28/2024 5:39 pm
6	IL6.D	fast-SIM-RVT	IL6,32,,100.0ng/mL lot#	WG1955532,,ical	7/28/2024 5:55 pm
7	IL5.D	fast-SIM-RVT	IL5,32,,40.0ng/mL lot#	WG1955532,,ical	7/28/2024 6:11 pm
8	IL4.D	fast-SIM-RVT	IL4,32,,10.0ng/mL lot#1	WG1955532,,ical	7/28/2024 6:27 pm
9	IL3.D	fast-SIM-RVT	IL3,32,,5.0ng/mL lot# 1	WG1955532,,ical	7/28/2024 6:43 pm
10	IL2.D	fast-SIM-RVT	IL2,32,,2.0ng/mL lot# 1	WG1955532,,ical	7/28/2024 6:59 pm
11	IL1.D	fast-SIM-RVT	IL1,32,,1.0ng/mL lot# 1	WG1955532,,ical	7/28/2024 7:15 pm
12	ICV.D	fast-SIM-RVT	CQICV,32,,1000.0ng/mL l	WG1955532,,ical	7/28/2024 7:31 pm
13	insblk.D	fast-SIM-RVT			7/28/2024 7:47 pm

Dep.: GCMS
Inst: SV119
Date: **09/24/24**
Run:

Method
GC: SIM RVT

Seq: WG1975503
ICAL: 21236

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
48	deg0924a	wg-1,32,,dftpp SV119 lot# 11037				
48	deg0924b	wg-1,32,,dftpp SV119 lot# 11037				
48	deg0924c	wg-1,32,,dftpp SV119 lot# 11037				09/24 RAP
49	ccv0924a	wg-3,32,,ICV 10884 (0921)	Benzo[g] low			09/24 RAP
50	blank0924a	instrument blank				
1	974982-1	WG1974982/4-1,32,,kmh	RV - hit over RL		SV-RAP	09/24 RAP
2	974982-2	WG1974982/4-2,32,,kmh				09/24 RAP
3	974982-3	WG1974982/4-3,32,,kmh				09/24 RAP
4	53694-01	L2453694-01,32,,R1C,kmh			kmh	09/24 RAP
5	74982-1	WG1974982-1,32,,RV,kmh	DNR – seq error			
6	4982-1	WG1974982-1,32,,RV,rp				09/24 RAP
7	74755-1	WG1974755-1,32,,RV,rp				09/24 RAP
8	53989-09	L2453989-09,32,,R1C,rp			RAP	09/24 RAP
9	53051-01	L2453051-01,32,,kmh				09/24 RAP
10	53051-02	L2453051-02,32,,kmh				09/24 RAP
11	53490-01	L2453490-01,32,,kmh			Sv-kmh	slr 9/25
12	974755-2	WG1974755-2,32,,RR,kmh				09/24 RAP
13	974755-3	WG1974755-3,32,,RR,kmh				09/24 RAP
14	53887-01	L2453887-01,32,,R3C,RR,kmh				09/24 RAP
15	975449-2	WG1975449-2,32,,kmh				09/24 RAP
16	975449-3	WG1975449-3,32,,kmh				09/24 RAP
17	975449-1	WG1975449-1,32,,kmh				09/24 RAP
18	53532-01	L2453532-01,32,,kmh				09/24 RAP
19	53490-02	L2453490-02,32,,kmh				slr 9/25
20	53490-03	L2453490-03,32,,kmh				slr 9/25
21	53686-01	L2453686-01,32,,kmh				slr 9/25
22	53686-02	L2453686-02,32,,kmh				slr 9/25
23	53686-03	L2453686-03,32,,kmh			SV-RAP	slr 9/25
24	53686-04	L2453686-04,32,,kmh				slr 9/25
25	53686-05	L2453686-05,32,,kmh				slr 9/25
26	53686-06	L2453686-06,32,,kmh				slr 9/25
27	53686-07	L2453686-07,32,,kmh				slr 9/25
28	974982-4	WG1974982-4,32,,kmh				slr 9/25
29	974982-5	WG1974982-5,32,,kmh				slr 9/25
30	53108-06	L2453108-06,32,,kmh				slr 9/25
31	53490-04	L2453490-04,32,,kmh				slr 9/25
32	970973-4	WG1970973-4,32,,kmh				
33	970973-5	WG1970973-5,32,,kmh				
34	2662-137	L2422662-137,32,,kmh				
35	970777-4	WG1970777-4,32,,kmh				
36	970777-5	WG1970777-5,32,,kmh			kmh	
37	2662-135	L2422662-135,32,,kmh			Sv-mrg	
38	53720-08	L2453720-08,32,,RR,mrg				ljg 9/26
39	53720-09	L2453720-09,32,,RR,mrg			mrg	ljg 9/26

Dep.: GCMS
Inst: SV119
Date: **09/24/24**
Run:

Method
GC: SIM RVT

Seq: WG1975503
ICAL: 21236

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
					Sv-kmh	

Dep.: GCMS
Inst: SV120
Date: **09/24/24**
Run:

Method
GC: SIM RVT

Seq: WG1975659
ICAL: 21368

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
48	deg0924	wg-1,32,, dftpp SV120 lot#10988				9/24 mrg
49	ccv0924	wg-3,32,,ICV 10884 (0921)				9/24 mrg
50	blk0924	instrument Blank				
1	975317-1	WG1975317-1,32,,kmh				9/24 mrg
2	975317-2	WG1975317-2,32,,kmh				9/24 mrg
3	975317-3	WG1975317-3,32,,kmh				9/24 mrg
4	54467-01	L2454467-01,32,,R3A,kmh				9/24 mrg
5	54467-02	L2454467-02,32,,R3A,kmh				9/24 mrg
6	54467-03	L2454467-03,32,,R3A,kmh				9/24 mrg
7	53335-06	L2453335-06,32,,kmh				9/24 mrg
8	54467-04	L2454467-04,32,,R3A,kmh				9/24 mrg
9	54467-05	L2454467-05,32,,R3A,kmh				9/24 mrg
10	54467-06	L2454467-06,32,,R3A,kmh				9/24 mrg
11	54467-10	L2454467-10,32,,R3A,kmh			kmh	9/24 mrg
12	54467-11	L2454467-11,32,,R3A,kmh			Sv-mrg	9/24 mrg
13	975326-2	WG1975326-2,32,,kmh				9/24 mrg
14	975326-3	WG1975326-3,32,,kmh				9/24 mrg
15	975326-1	WG1975326-1,32,,kmh				9/24 mrg
16	54467-12	L2454467-12,32,,R3A,kmh				9/24 mrg
17	54467-13	L2454467-13,32,,R3A,kmh			sv-rap	9/24 mrg
18	53720-01	L2453720-01,32,,kmh				9/24 mrg
19	53720-03	L2453720-03,32,,kmh				9/24 mrg
20	53720-04	L2453720-04,32,,kmh				9/24 mrg
21	53720-06	L2453720-06,32,,kmh				9/24 mrg
22	53720-07	L2453720-07,32,,kmh				9/24 mrg
23	53720-08	L2453720-08,32,,kmh	OTT, RR			9/24 mrg
24	53720-09	L2453720-09,32,,kmh	OTT, RR		mrg	9/24 mrg
					sv-ALL	

Dep.: GCMS
Inst: SV119
Date: **09/25/24**
Run:

Method
GC: SIM RVT

Seq: WG1976035
ICAL: 21236

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
48	deg0925	wg-1,32,,dftpp SV119 lot# 11037				09/25 RAP
49	ccv0925	wg-3,32,,ICV 10884 (0921)	Hexachloroethane, BBF low			09/25 RAP
50	blank0925	instrument blank				
1	975618-1	WG1975618-1,32,,kmh				09/25 RAP
2	975618-2	WG1975618-2,32,,kmh				09/25 RAP
3	975618-3	WG1975618-3,32,,kmh				09/25 RAP
4	53680-07	L2453680-07,32,,R1B,kmh				09/25 RAP
5	53429-06	L2453429-06,32,,kmh				09/25 RAP
6	975817-2	WG1975817-2,32,,kmh				09/25 RAP
7	975817-3	WG1975817-3,32,,kmh				09/25 RAP
8	975817-1	WG1975817-1,32,,kmh				09/25 RAP
9	53845-02	L2453845-02,32,,R1C,kmh				09/25 RAP
10	53845-03	L2453845-03,32,,R1C,kmh				09/25 RAP
11	975816-2	WG1975816-2,32,,kmh				09/25 RAP
12	975816-3	WG1975816-3,32,,kmh				09/25 RAP
13	975816-1	WG1975816-1,32,,kmh				09/25 RAP
14	53845-01	L2453845-01,32,,R1B,kmh				09/25 RAP
15	975812-2	WG1975812-2,32,,kmh				im 9/25
16	975812-3	WG1975812-3,32,,kmh				im 9/25
17	975812-1	WG1975812-1,32,,kmh			SV-RAP	im 9/25
18	53436-01	L2453436-01,32,,kmh				im 9/25
19	53720-02	L2453720-02,32,,kmh				im 9/25
20	975326-4	WG1975326-4,32,,kmh				im 9/25
21	975326-5	WG1975326-5,32,,kmh				im 9/25
22	53108-07	L2453108-07,32,,kmh			sv-im	
23	975618-4	WG1975618-4,32,,kmh				
24	975618-5	WG1975618-5,32,,kmh				
25	53108-08	L2453108-08,32,,kmh				
26	975812-4	WG1975812-4,32,,kmh				
27	975812-5	WG1975812-5,32,,kmh			kmh	
28	974591-2	WG1974591-2,32,,RV(IS),rp	RR - computer issue			
29	974591-3	WG1974591-3,32,,RV(IS),rp				09/25 RAP
30	975976-2	WG1975976/81-2,32,,rp				
31	74591-2	WG1974591-2,32,,RR,RV(IS),rp				09/25 RAP
32	975976-3	WG1975976/81-3,32,,rp				
33	975976-1	WG1975976/81-1,32,,rp			RAP	
					Sv-mrg	

ORGANIC ELN REPORT

Workgroup: WG1975326

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089
Surrogate Type: ABN **Lot #:** 11001-AS[03/11/25]
Spike Type: ABN-SIM **Lot #:** 10948-AG[02/03/25]; 10949-AI[
Spike Verify by: ARP/DLP
Lims Spikelot: 8270-RVT

Additional Reagents/Stds

H2SO4	A072424
Na2SO4	241169
NaOH	10NNaOH082824

Conc.Method: Buchi
Solvent Type: DCM
Lot #: EJ089

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453335-06 SAMP	09/24/24 09:43	Dayle Parsons	100	<2, >12	.1		09/24/24 13:12	Grace Tran	1	K
L2453720-01 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
L2453720-02 SAMP	09/25/24 01:52	Amanda Patterson	100	<2, >12	.1		09/25/24 08:23	Grace Tran	1	K
L2453720-03 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
L2453720-04 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
L2453720-06 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
L2453720-07 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K

Reported: 26-SEP-24 11:08 AM

ORGANIC ELN REPORT

Workgroup: WG1975326

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2453720-08 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
L2453720-09 SAMP	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
WG1975326-1 BLANK	09/24/24 04:19 **WG1975324**	Amanda Patterson	100	<2, >12	.1		09/24/24 10:42	Ashley Busold	1	K
WG1975326-2 LCS	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1	.1	09/24/24 10:42	Ashley Busold	1	K
WG1975326-3 LCSD	09/24/24 04:19	Amanda Patterson	100	<2, >12	.1	.1	09/24/24 10:42	Ashley Busold	1	K
WG1975326-4 MS	09/25/24 01:52	Amanda Patterson	100	<2, >12	.1	.1	09/25/24 08:23	Grace Tran	1	K
WG1975326-5 MSD	09/25/24 01:52	Amanda Patterson	100	<2, >12	.1	.1	09/25/24 08:23	Grace Tran	1	K

Reported: 26-SEP-24 11:08 AM

GCMS Extractables 1,4-Dioxane By SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453720
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 ()	S2 ()	S3 ()	S4 ()	S5 ()	S6 ()	TOT OUT
MW-8S (L2453720-01)	31	--	--	--	--	--	0
WG1974604-1BLANK	34	--	--	--	--	--	0
WG1974604-2LCS	30	--	--	--	--	--	0
WG1974604-3LCSD	34	--	--	--	--	--	0

QC LIMITS
(15-110) S1 = 1,4-DIOXANE-D8

*** Values outside of QC limits**

FORM II A2-14-DIOXANESIM-PPB

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1974604-2 **Analysis Date** : 09/26/24 10:05	**File ID**	: F1109262404
LCSD Sample ID	: WG1974604-3 **Analysis Date** : 09/26/24 10:29	**File ID**	: F1109262405

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
1,4-Dioxane	5	5.89	118	5	6.08	122	3	40-140	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1974604-1	**Lab File ID**	: F1109262403
Instrument ID	: BNA11	**Extraction Date**	: 09/21/24
Matrix	: WATER	**Analysis Date**	: 09/26/24 09:42
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1974604-2LCS	WG1974604-2	09/26/24 10:05
WG1974604-3LCSD	WG1974604-3	09/26/24 10:29
MW-8S	L2453720-01	09/26/24 16:32

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: BNA11	**Analysis Date**	: 08/26/24 08:44
Tune Standard	: R1868600-1	**Tune File ID**	: F1108262401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.7
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	50.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	25.2
365	Greater than 1.0% of mass 198	2.3
441	Present, but less than 24% of mass 442	15.2
442	Base Peak, or >50% of mass 198	58.5
443	15.0 - 24.0% of mass 442	10.8 (18.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD 10	R1868600-3	F1108262403	08/26/24 09:44
STD 50	R1868600-2	F1108262404	08/26/24 10:58
STD 100	R1868600-4	F1108262405	08/26/24 11:21
STD 500	R1868600-5	F1108262406	08/26/24 11:44
STD 1000	R1868600-6	F1108262407	08/26/24 12:07
STD 5000	R1868600-7	F1108262408	08/26/24 12:31
STD 10000	R1868600-8	F1108262409	08/26/24 12:54
ICV QUANT REPORT	R1868600-9	F1108262410	08/26/24 13:18

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: BNA11	**Analysis Date**	: 09/26/24 08:39
Tune Standard	: WG1976623-1	**Tune File ID**	: F1109262401_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37.4
68	Less than 2.0% of mass 69	0 (0)1
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	50.3
197	Less than 2.0% of mass 198	0.3
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	23.9
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than 24% of mass 442	15.1
442	Base Peak, or >50% of mass 198	54.5
443	15.0 - 24.0% of mass 442	10.2 (18.8)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1976623-2CCAL	WG1976623-2	F1109262402	09/26/24 09:15
WG1974604-1BLANK	WG1974604-1	F1109262403	09/26/24 09:42
WG1974604-2LCS	WG1974604-2	F1109262404	09/26/24 10:05
WG1974604-3LCSD	WG1974604-3	F1109262405	09/26/24 10:29
MW-8S	L2453720-01	F1109262421	09/26/24 16:32

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: BNA11	**Analysis Date**	: 09/26/24 09:15:00
Sample No	: WG1976623-2	**Lab File ID**	: F1109262402

	1,4-Dichlorobenzene-d4					
	Area	RT	Area	RT	Area	RT
WG1976623-2	367733	8.82				
Upper Limit	735466	9.32				
Lower Limit	183867	8.32				
Sample ID						
WG1974604-1 BLANK	344128	8.83				
WG1974604-2 LCS	334085	8.82				
WG1974604-3 LCSD	334810	8.83				
MW-8S	344216	8.82				

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12115-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	150	33.9	ng/l	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ng/l								

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/21/22
Created By: Jason Hebert
File: PM12118-1
Page: 1

1,4 Dioxane via EPA 8270D-SIM (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	8	2.04	ug/kg	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ug/kg								

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/26/24 16:32
Sample Matrix	: WATER	**Date Extracted**	: 09/21/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1109262421	**Analyst**	: GRS
Sample Amount	: 270 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.139	0.0314	U

Results Summary
Form 1
1,4 Dioxane by 8270E-SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974604-1	**Date Collected**	: NA
Client ID	: WG1974604-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/26/24 09:42
Sample Matrix	: WATER	**Date Extracted**	: 09/21/24
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: F1109262403	**Analyst**	: GRS
Sample Amount	: 250 ml	**Instrument ID**	: BNA11
Extraction Method	: EPA 3510C	**GC Column**	: RTX-5
Extract Volume	: 2500 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
123-91-1	1,4-Dioxane	ND	0.150	0.0339	U

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262421.D
Acq On : 26 Sep 2024 4:32 pm
Operator : BNA11:GRS
Sample : L2453720-01,32,,
Misc : WG1976623,WG1974604,ICAL21417
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 27 08:21:41 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:02 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.804	64	38026	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	8.822	152	344216	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.804	64	38026	155.037	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 31.01%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

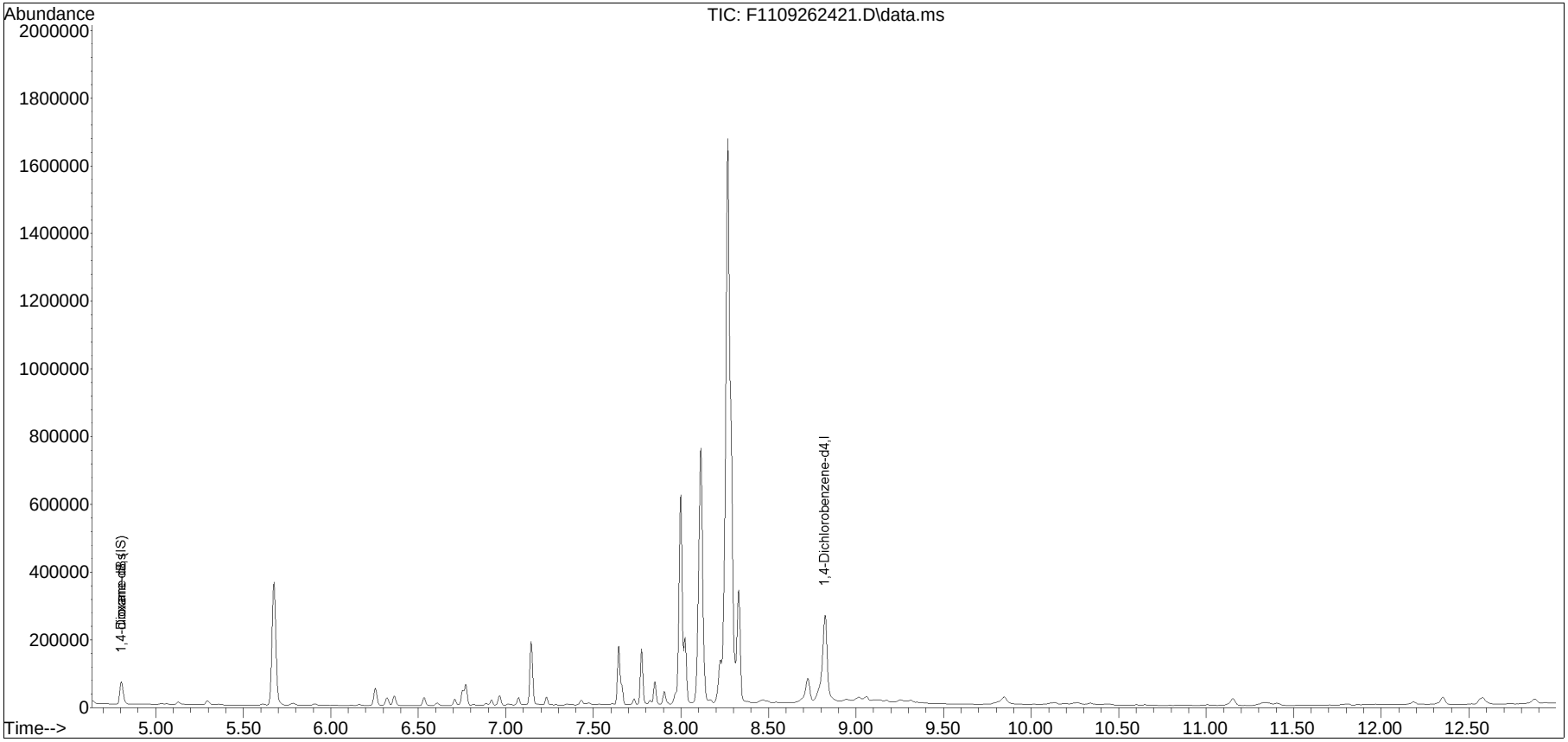
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262421.D
Acq On : 26 Sep 2024 4:32 pm
Operator : BNA11:GRS
Sample : L2453720-01,32,,
Misc : WG1976623,WG1974604,ICAL21417
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 27 08:21:41 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:02 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1109262421.D	Operator	: BNA11:GRS
Date Inj'd	: 9/26/2024 4:32 pm	Instrument	: BNA 11
Sample	: L2453720-01,32,,	Quant Date	: 9/27/2024 8:11 am

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: BNA11**	**Ical Ref**	**: ICAL21417**
Calibration dates	**: 08/26/24 09:44 08/26/24 12:54**		

Calibration Files
10 =F1108262403.D 50 =F1108262404.D 100 =F1108262405.D 500 =F1108262406.D 1000=F1108262407.D
5000=F1108262408.D 1e04=F1108262409.D

	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	----------ISTD----------								
2)	1,4-dioxane	1.314	1.401	1.419	1.352	1.421	1.316	1.314	1.363	3.68
3) I	1,4-Dichlorobenzene-d4	----------ISTD----------								
4) s	1,4-dioxane-d8	0.352	0.354	0.345	0.368	0.356	0.369	0.351	0.356	2.52

Response Factor Report BNA 11

Method Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Method File : 14DIOX0826BNA11.M
Title : Semivolatiles by GC/MS
Last Update : Mon Aug 26 14:12:00 2024
Response Via : Initial Calibration

Calibration Files
10 =F1108262403.D 50 =F1108262404.D 100 =F1108262405.D 500 =F1108262406.D 1000=F1108262407.D
5000=F1108262408.D 1e04=F1108262409.D

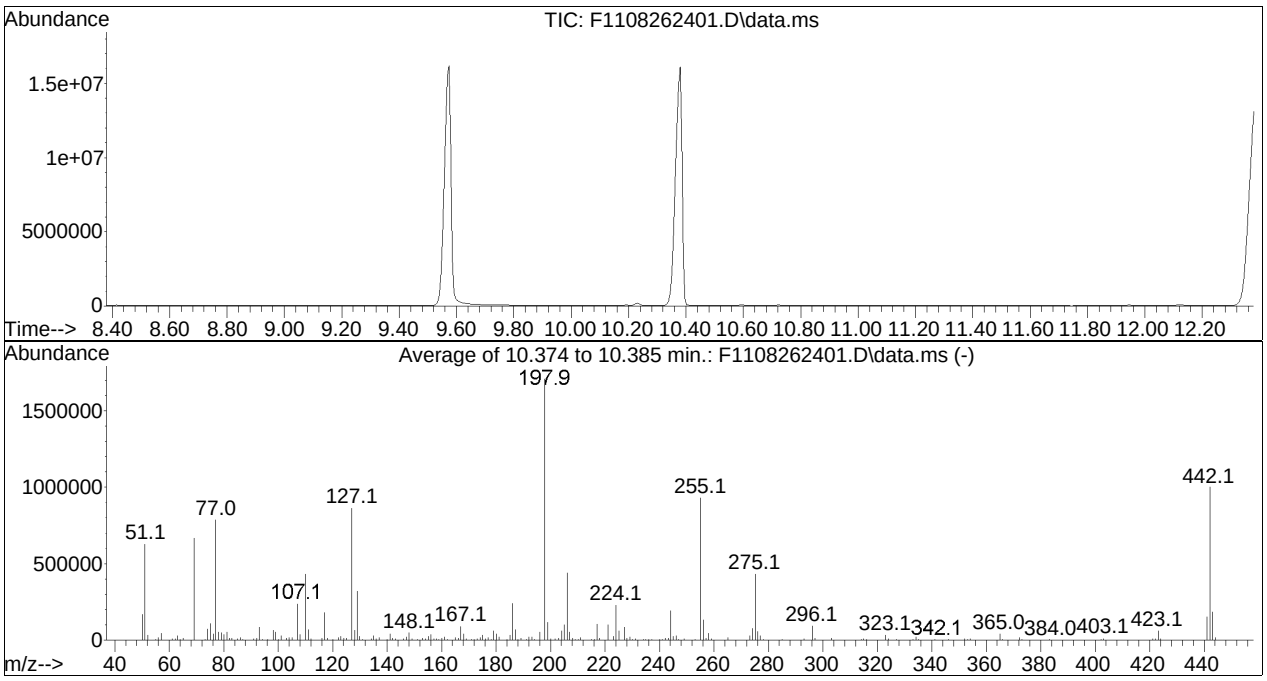
	Compound	10	50	100	500	1000	5000	1e04	Avg	%RSD
1)	1,4-Dioxane-d8 (IS)	ISTD								
2)	1,4-dioxane	1.314	1.401	1.419	1.352	1.421	1.316	1.314	1.363	3.68
3) I	1,4-Dichlorobenzene-d4	ISTD								
4) s	1,4-dioxane-d8	0.352	0.354	0.345	0.368	0.356	0.369	0.351	0.356	2.52

(#) = Out of Range

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262401.D
Acq On : 26 Aug 2024 8:44 am
Operator : BNA11:GRS
Sample : T1108262401
Misc : WG1963991,MSBU36
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Title : Semivolatiles by GC/MS
Last Update : Mon Aug 26 14:12:00 2024



Spectrum Information: Average of 10.374 to 10.385 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.7	627277	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	3273	PASS
127	198	10	80	50.4	862080	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1709691	PASS
199	198	5	9	6.8	115549	PASS
275	198	10	60	25.2	430933	PASS
365	198	1	100	2.3	39349	PASS
441	442	0.01	24	15.2	152107	PASS
442	198	50	100	58.5	1000917	PASS
443	442	15	24	18.4	184491	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262403.D
Acq On : 26 Aug 2024 9:44 am
Operator : BNA11:GRS
Sample : I1108262401
Misc : WG1963991,MSBU51
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 14:12:35 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.907	64	92678	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.900	152	263527	500.000	ng/mL	-0.01
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.907	64	92678	493.558	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.71%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.976	88	2436	9.645	ng/mL	95

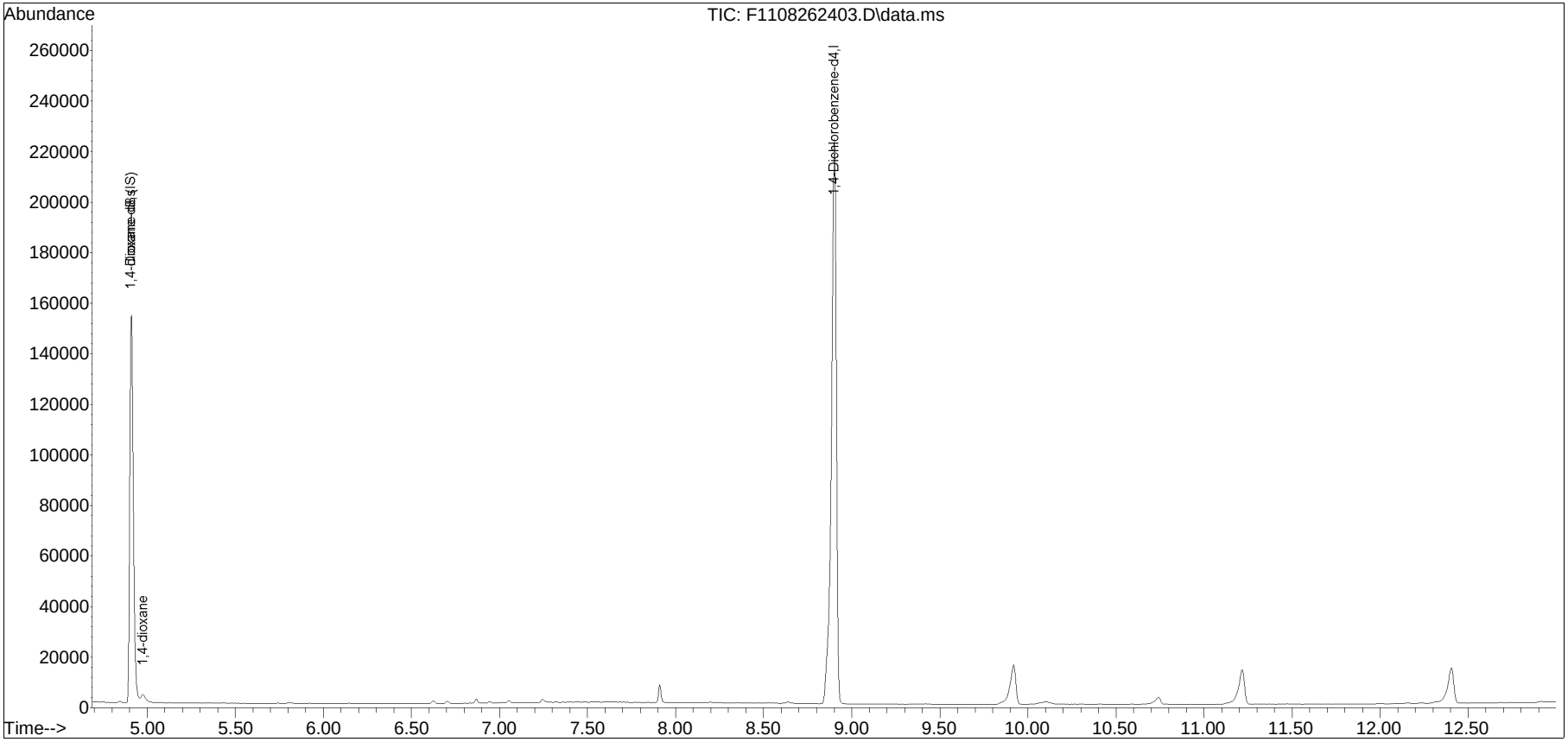
(#) = qualifier out of range (m) = manual integration (+) = signals summed

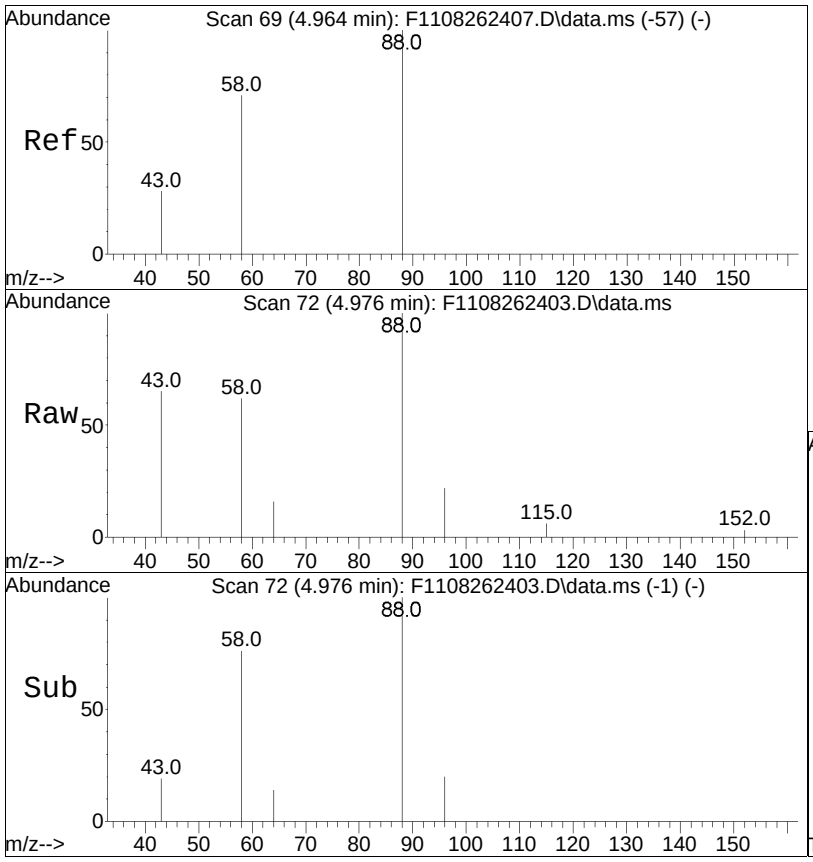
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262403.D
Acq On : 26 Aug 2024 9:44 am
Operator : BNA11:GRS
Sample : I1108262401
Misc : WG1963991,MSBU51
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 14:12:35 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

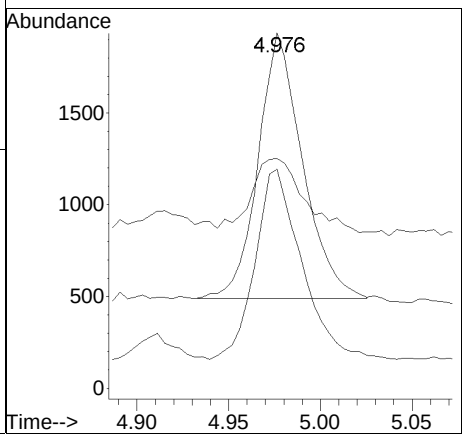




#2
1,4-dioxane
Concen: 9.65 ng/mL
RT: 4.976 min Scan# 72
Delta R.T. 0.012 min
Lab File: F1108262403.D
Acq: 26 Aug 2024 9:44 am

Tgt Ion: 88 Resp: 2436

Ion	Ratio	Lower	Upper
88	100		
58	75.0	57.2	85.8
43	32.7	22.6	34.0



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1108262403.D	Operator	: BNA11:GRS
Date Inj'd	: 8/26/2024 9:44 am	Instrument	: BNA 11
Sample	: I1108262401	Quant Date	: 8/26/2024 2:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262404.D
Acq On : 26 Aug 2024 10:58 am
Operator : BNA11:GRS
Sample : I1108262402
Misc : WG1963991,MSBU52
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 26 14:12:37 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.911	64	93298	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.916	152	263832	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.911	64	93298	496.285	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 99.26%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.972	88	13073	51.418	ng/mL	99

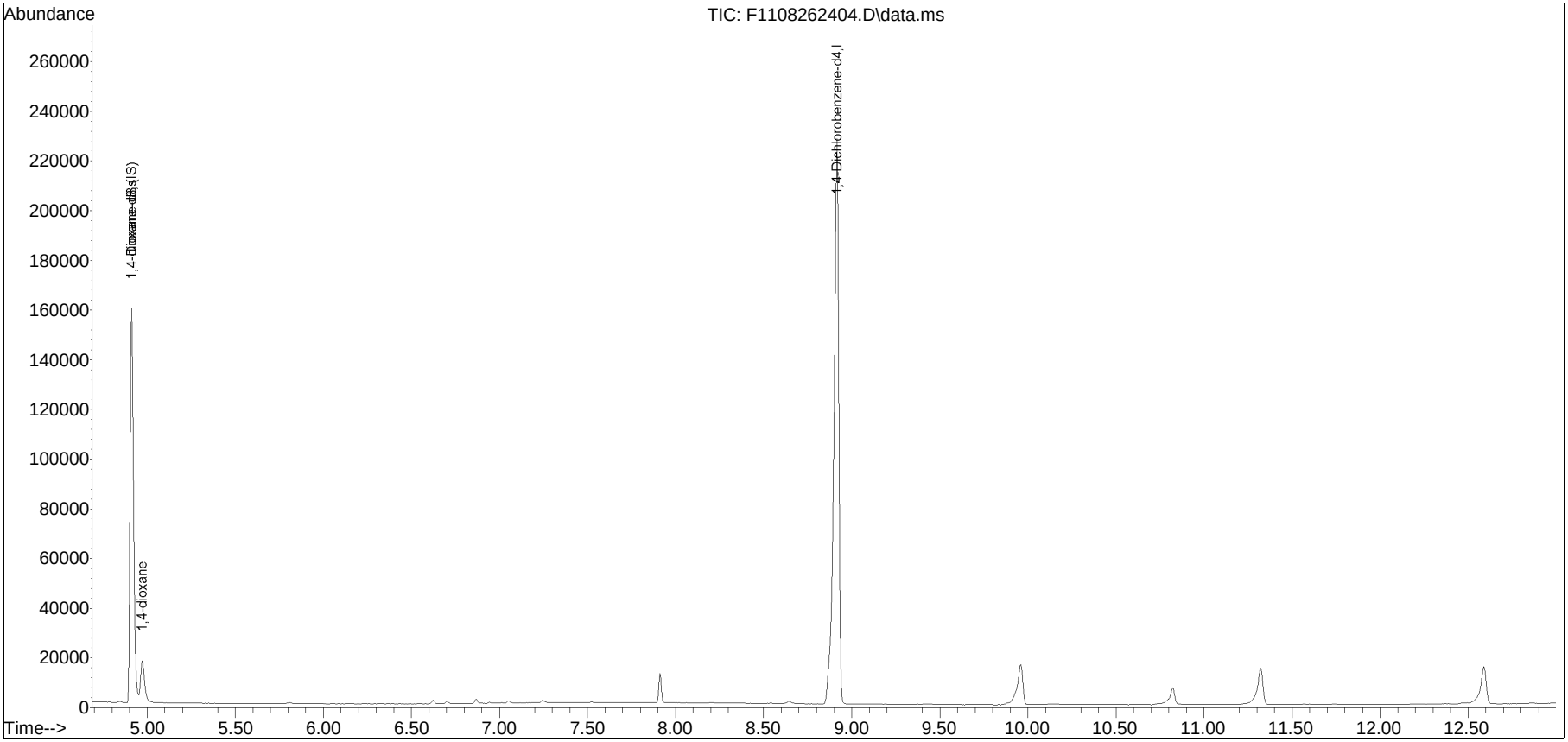
(#) = qualifier out of range (m) = manual integration (+) = signals summed

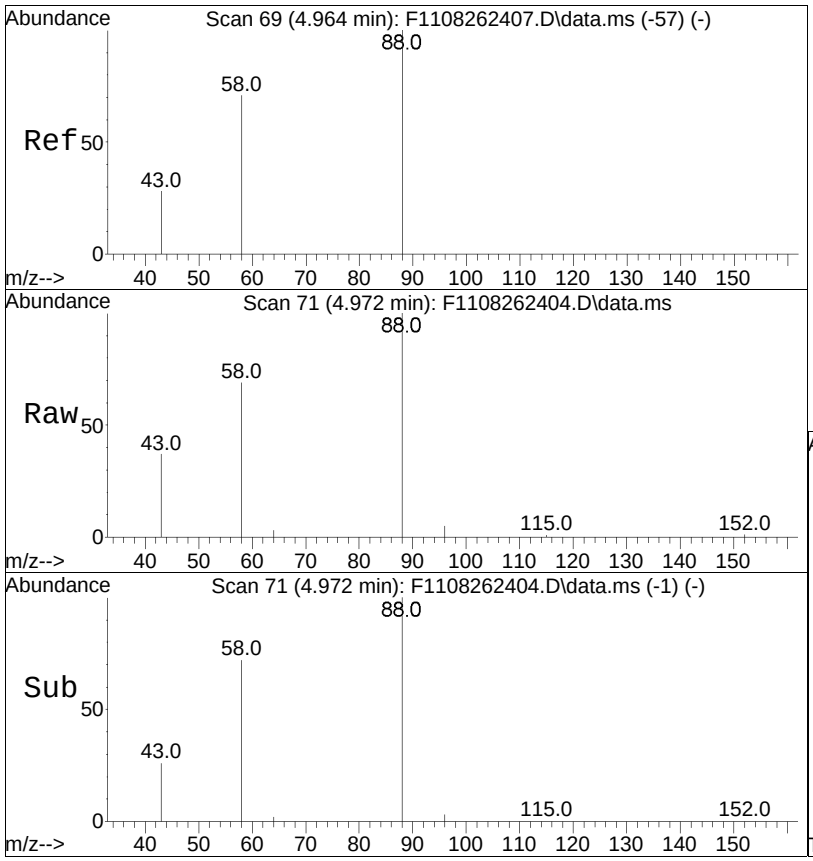
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262404.D
Acq On : 26 Aug 2024 10:58 am
Operator : BNA11:GRS
Sample : I1108262402
Misc : WG1963991,MSBU52
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 26 14:12:37 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

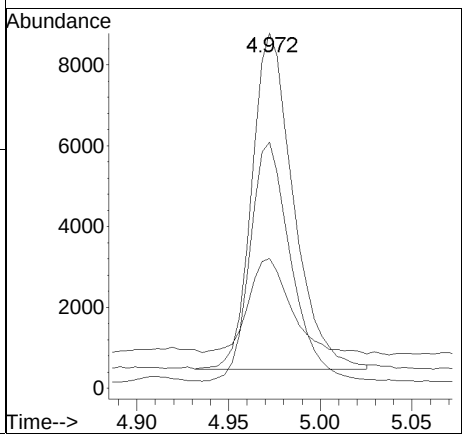




#2
1,4-dioxane
Concen: 51.42 ng/mL
RT: 4.972 min Scan# 71
Delta R.T. 0.008 min
Lab File: F1108262404.D
Acq: 26 Aug 2024 10:58 am

Tgt Ion: 88 Resp: 13073

Ion	Ratio	Lower	Upper
88	100		
58	70.5	57.2	85.8
43	29.4	22.6	34.0



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1108262404.D	Operator	: BNA11:GRS
Date Inj'd	: 8/26/2024 10:58 am	Instrument	: BNA 11
Sample	: I1108262402	Quant Date	: 8/26/2024 2:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262405.D
Acq On : 26 Aug 2024 11:21 am
Operator : BNA11:GRS
Sample : I1108262403
Misc : WG1963991,MSBU53
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 26 14:12:39 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.903	64	90993	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.908	152	263781	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.903	64	90993	484.117	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 96.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.964	88	25824	104.141	ng/mL	100

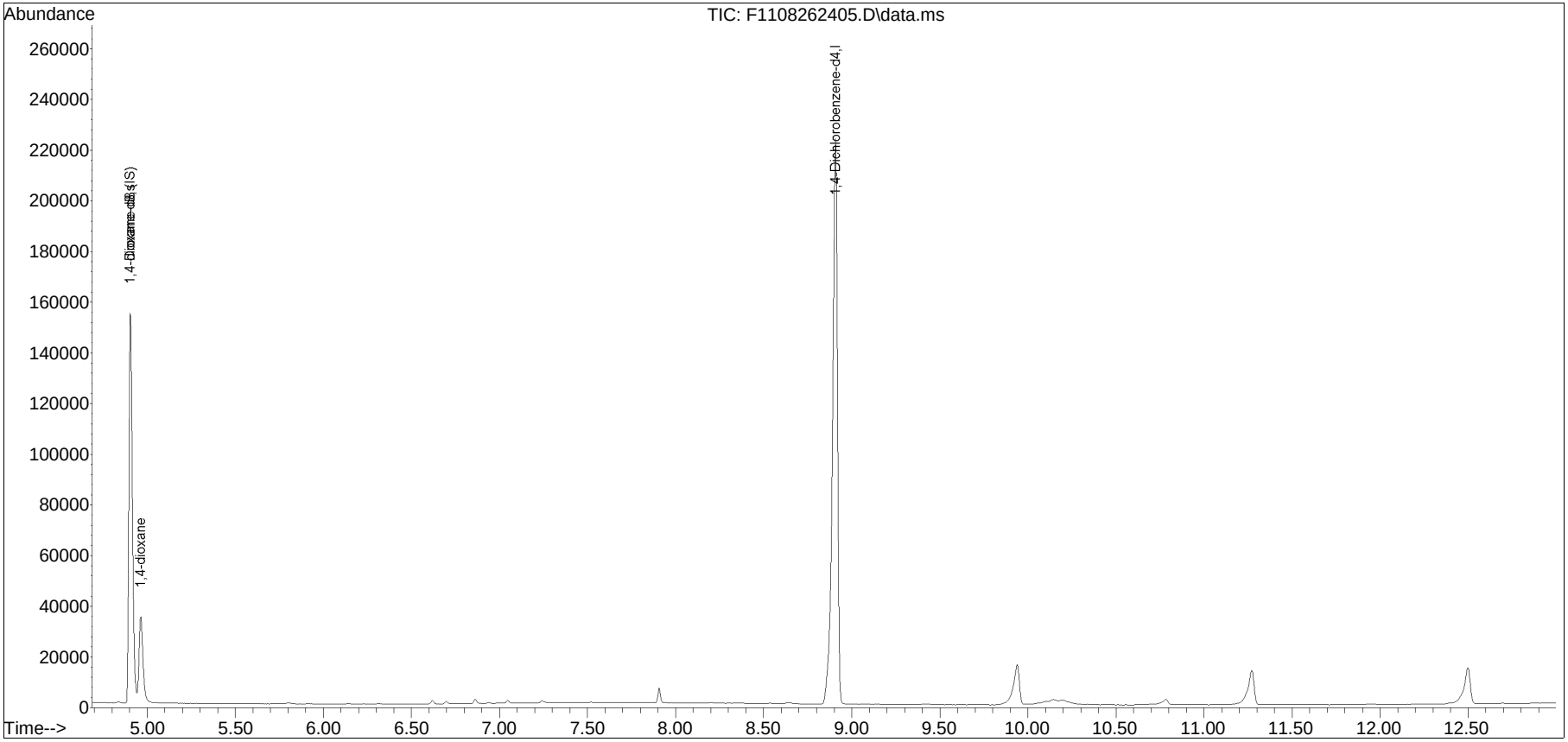
(#) = qualifier out of range (m) = manual integration (+) = signals summed

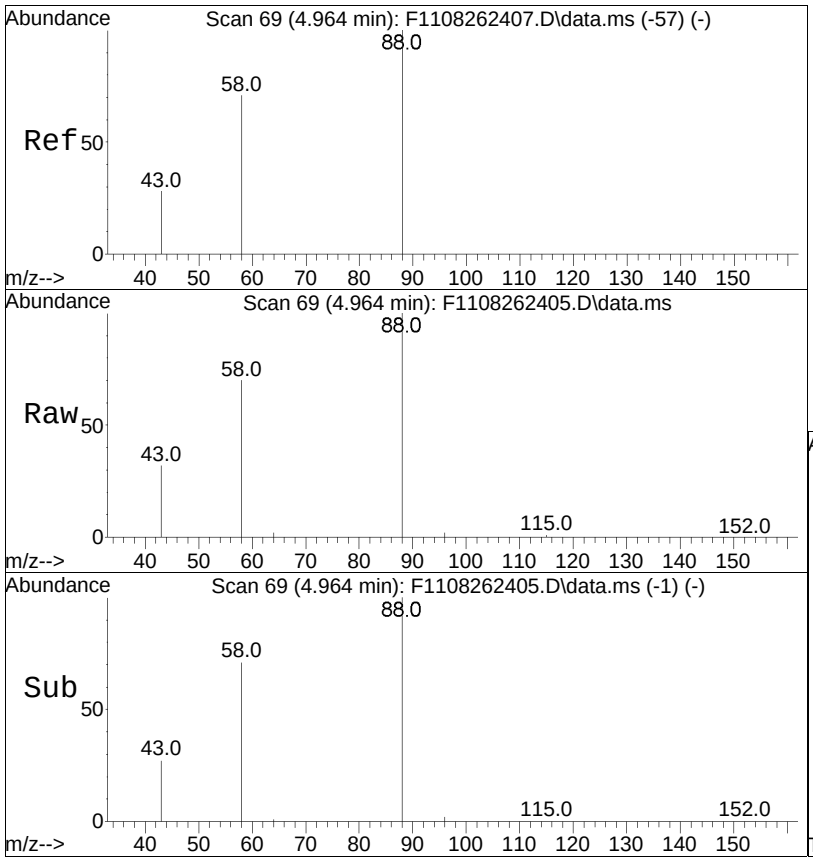
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262405.D
Acq On : 26 Aug 2024 11:21 am
Operator : BNA11:GRS
Sample : I1108262403
Misc : WG1963991,MSBU53
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 26 14:12:39 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

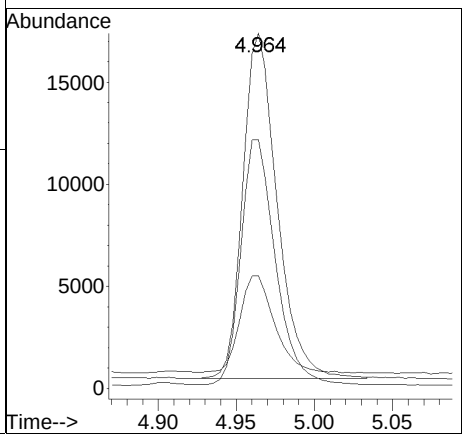




#2
1,4-dioxane
Concen: 104.14 ng/mL
RT: 4.964 min Scan# 69
Delta R.T. 0.000 min
Lab File: F1108262405.D
Acq: 26 Aug 2024 11:21 am

Tgt Ion: 88 Resp: 25824

Ion	Ratio	Lower	Upper
88	100		
58	71.7	57.2	85.8
43	28.2	22.6	34.0



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1108262405.D	Operator	: BNA11:GRS
Date Inj'd	: 8/26/2024 11:21 am	Instrument	: BNA 11
Sample	: I1108262403	Quant Date	: 8/26/2024 2:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262406.D
Acq On : 26 Aug 2024 11:44 am
Operator : BNA11:GRS
Sample : I1108262404
Misc : WG1963991,MSBU54
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 26 14:12:42 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.907	64	95365	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.908	152	259114	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.907	64	95365	516.517	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 103.30%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.964	88	128978	496.289	ng/mL	100

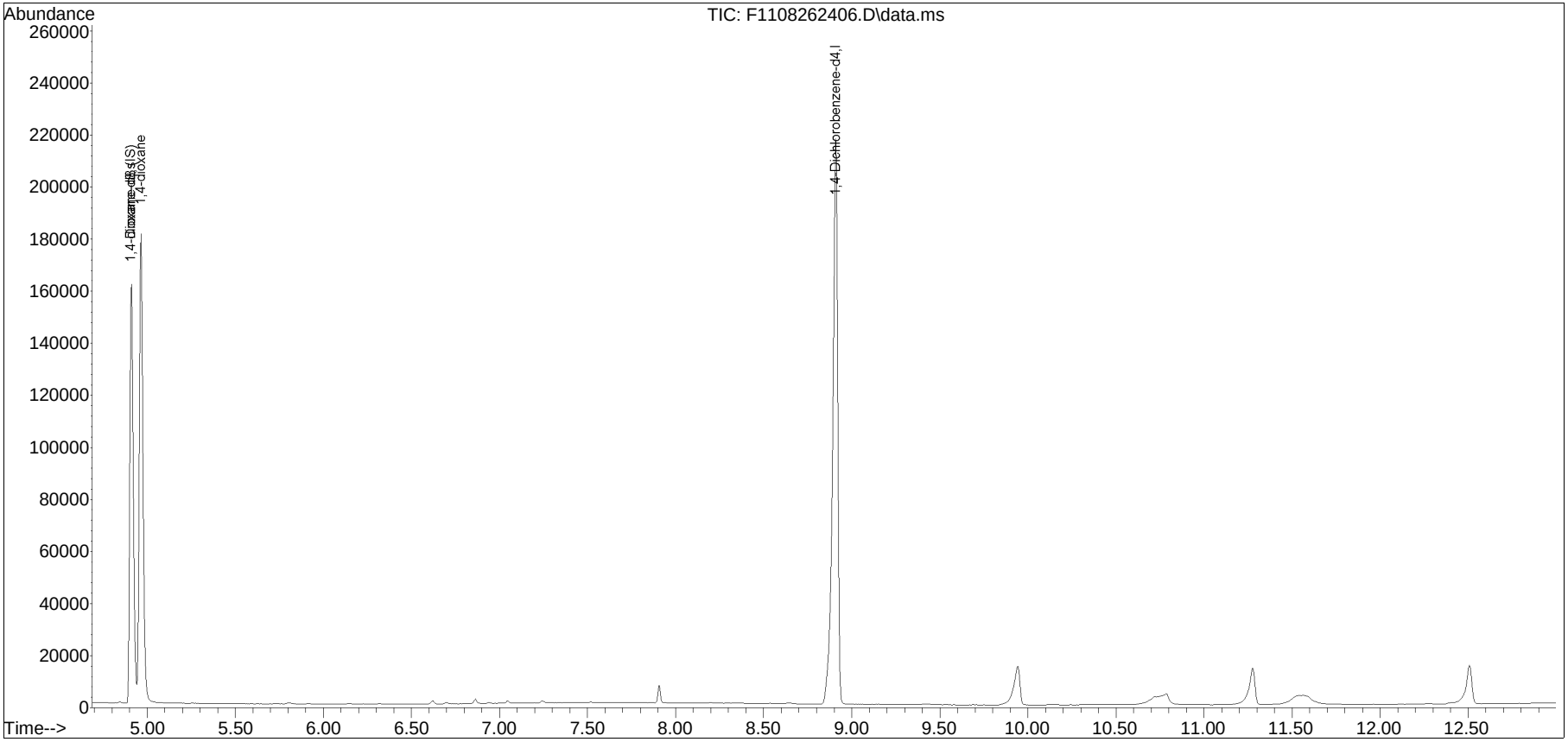
(#) = qualifier out of range (m) = manual integration (+) = signals summed

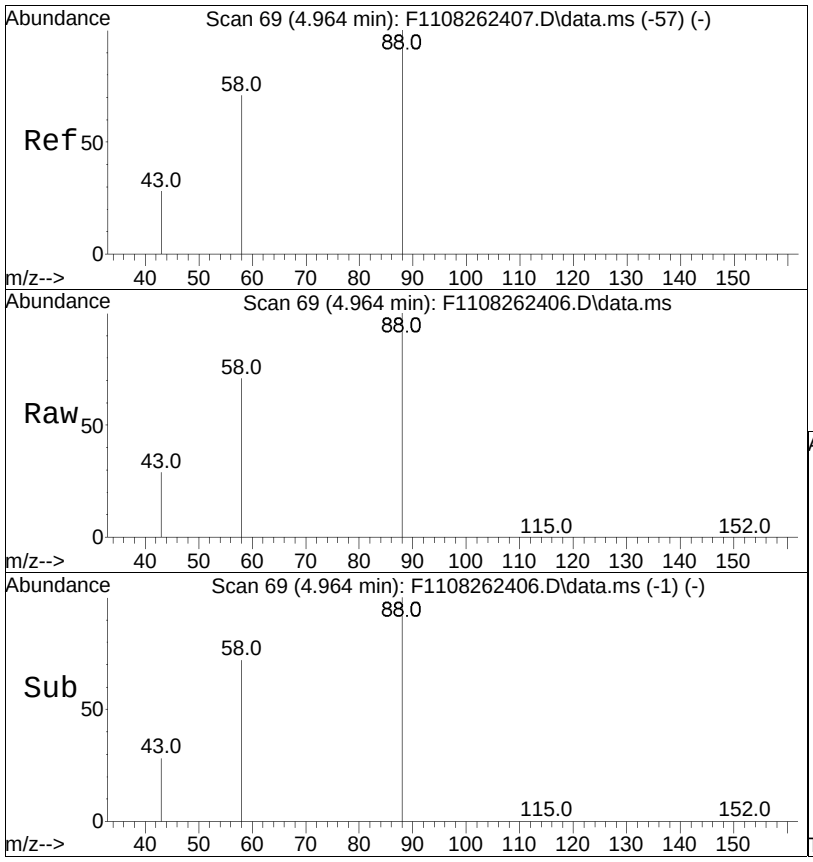
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262406.D
Acq On : 26 Aug 2024 11:44 am
Operator : BNA11:GRS
Sample : I1108262404
Misc : WG1963991,MSBU54
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 26 14:12:42 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

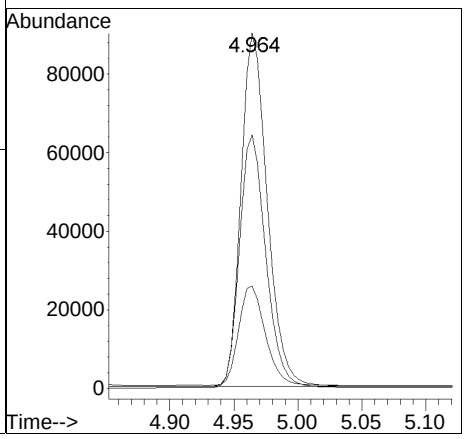




#2
1,4-dioxane
Concen: 496.29 ng/mL
RT: 4.964 min Scan# 69
Delta R.T. 0.000 min
Lab File: F1108262406.D
Acq: 26 Aug 2024 11:44 am

Tgt Ion: 88 Resp: 128978

Ion	Ratio	Lower	Upper
88	100		
58	71.6	57.2	85.8
43	28.3	22.6	34.0



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1108262406.D	Operator	: BNA11:GRS
Date Inj'd	: 8/26/2024 11:44 am	Instrument	: BNA 11
Sample	: I1108262404	Quant Date	: 8/26/2024 2:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262407.D
Acq On : 26 Aug 2024 12:07 pm
Operator : BNA11:GRS
Sample : I1108262405
Misc : WG1963991,MSBU55
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 14:12:45 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.911	64	92654	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.912	152	260127	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.911	64	92654	499.879	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 99.98%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.964	88	263352	1042.991	ng/mL	100

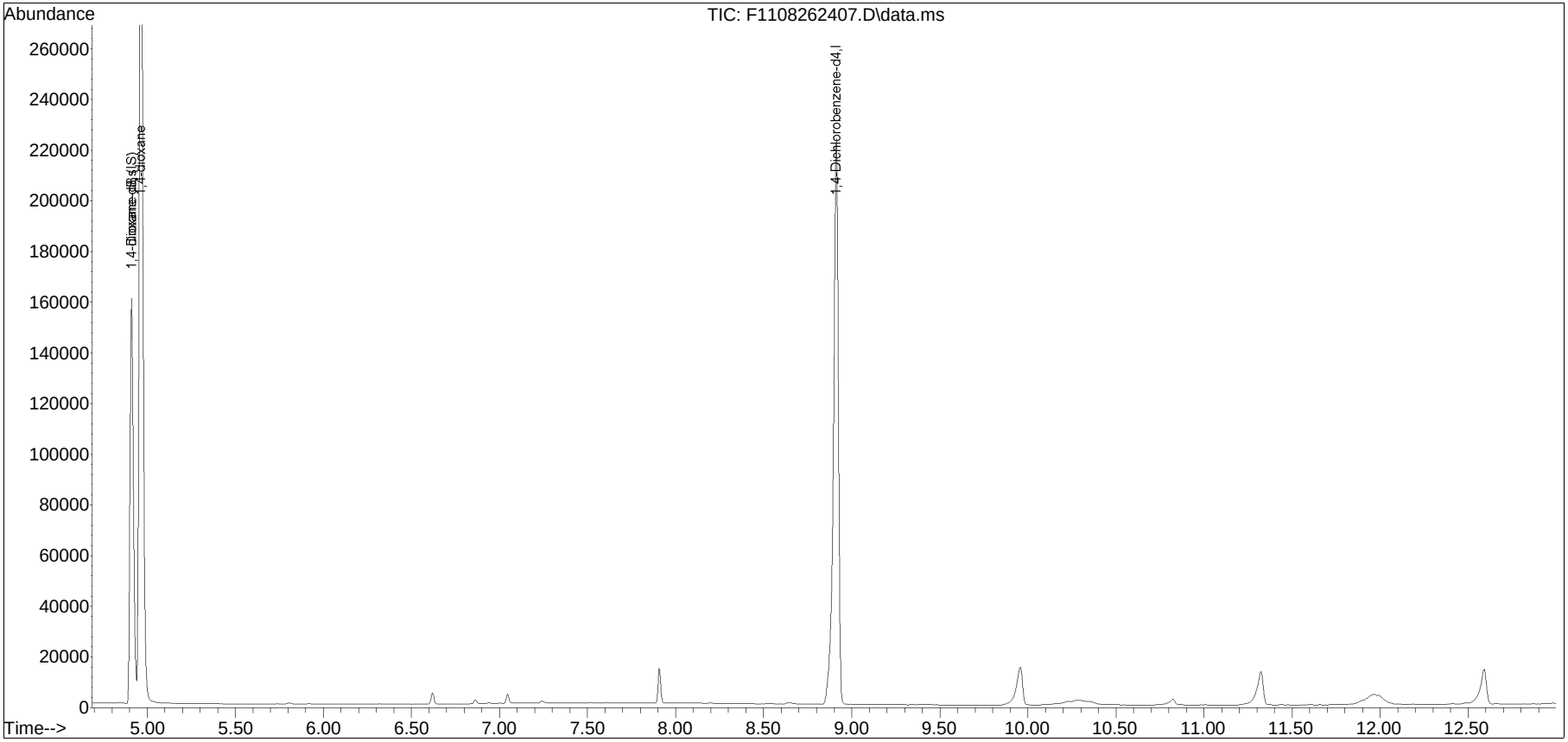
(#) = qualifier out of range (m) = manual integration (+) = signals summed

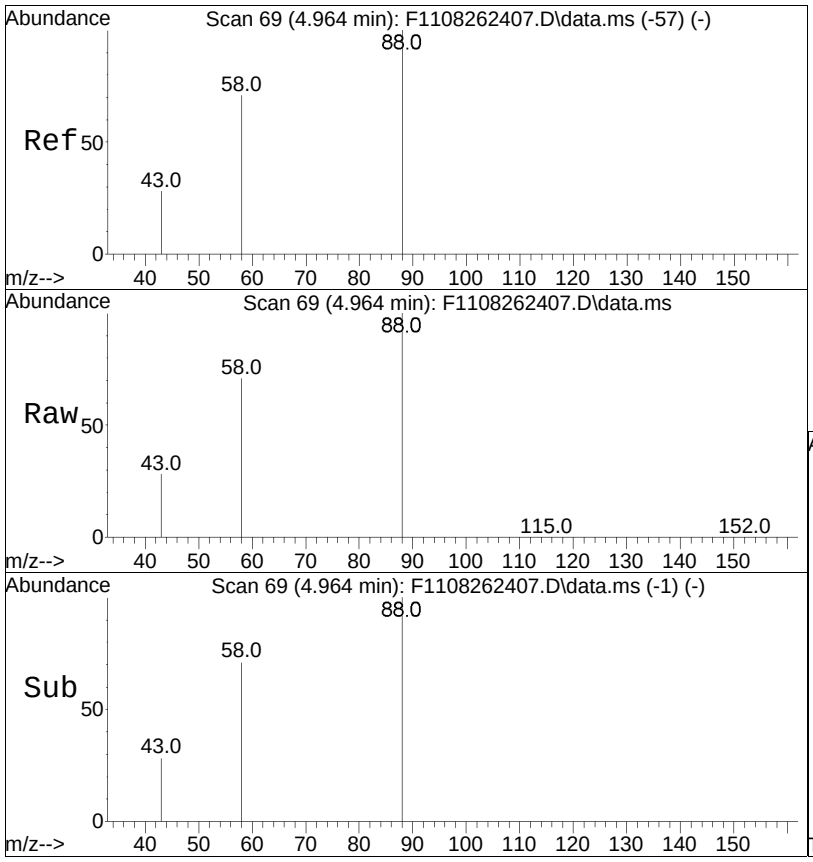
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262407.D
Acq On : 26 Aug 2024 12:07 pm
Operator : BNA11:GRS
Sample : I1108262405
Misc : WG1963991,MSBU55
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 26 14:12:45 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

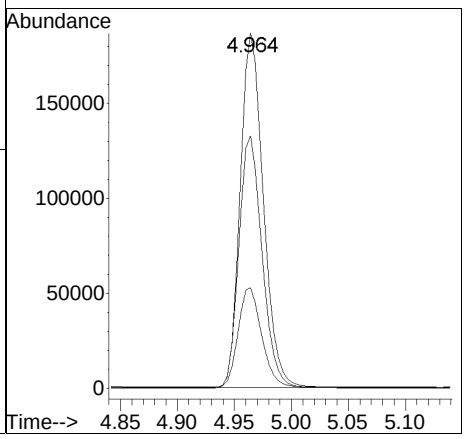




#2
1,4-dioxane
Concen: 1042.99 ng/mL
RT: 4.964 min Scan# 69
Delta R.T. 0.000 min
Lab File: F1108262407.D
Acq: 26 Aug 2024 12:07 pm

Tgt Ion: 88 Resp: 263352

Ion	Ratio	Lower	Upper
88	100		
58	71.5	57.2	85.8
43	28.3	22.6	34.0



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1108262407.D	Operator	: BNA11:GRS
Date Inj'd	: 8/26/2024 12:07 pm	Instrument	: BNA 11
Sample	: I1108262405	Quant Date	: 8/26/2024 2:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262408.D
Acq On : 26 Aug 2024 12:31 pm
Operator : BNA11:GRS
Sample : I1108262406
Misc : WG1963991,MSBU56
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 26 14:12:48 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.903	64	95969	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.913	152	260218	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.903	64	95969	517.583	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 103.52%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.960	88	1263393	4830.762	ng/mL	100

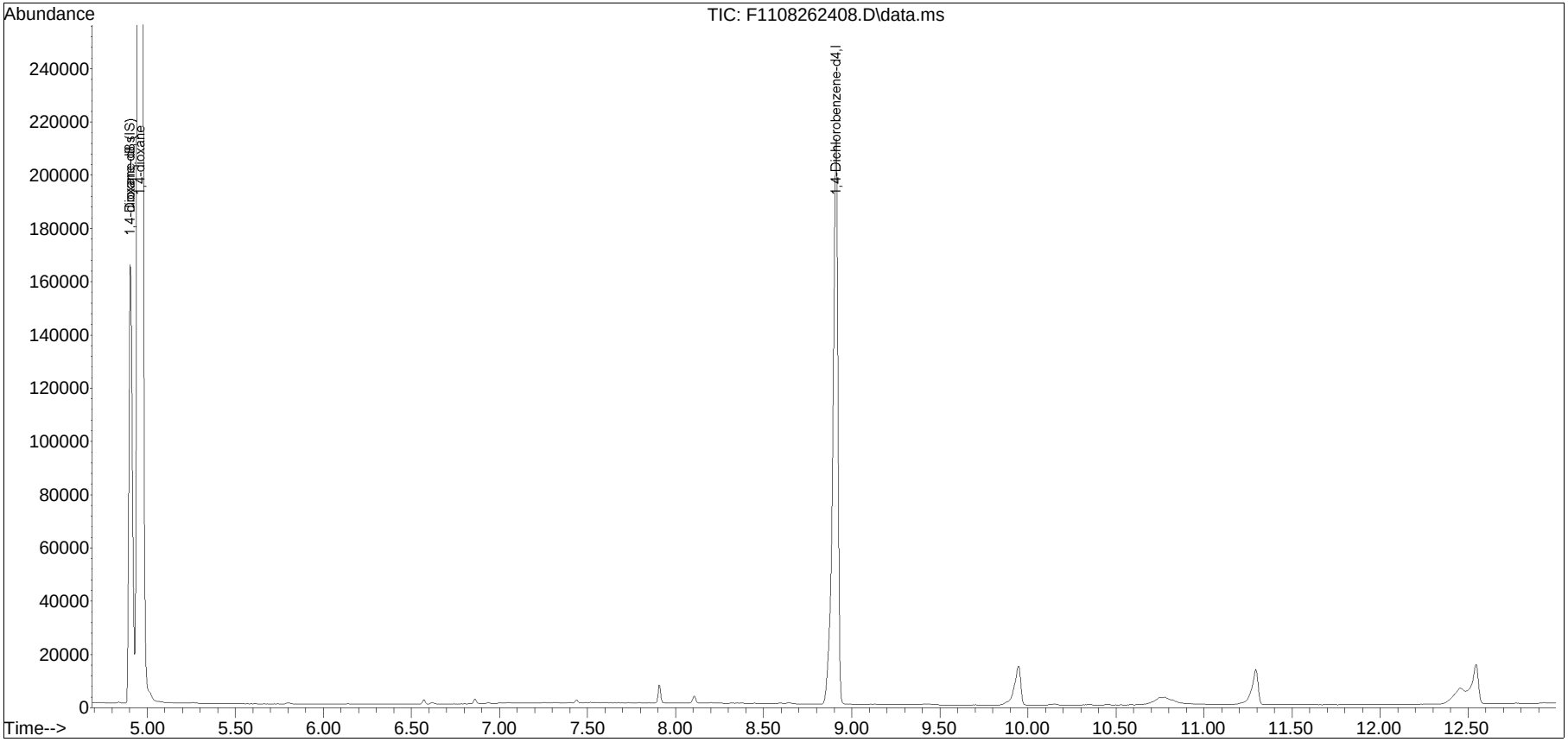
(#) = qualifier out of range (m) = manual integration (+) = signals summed

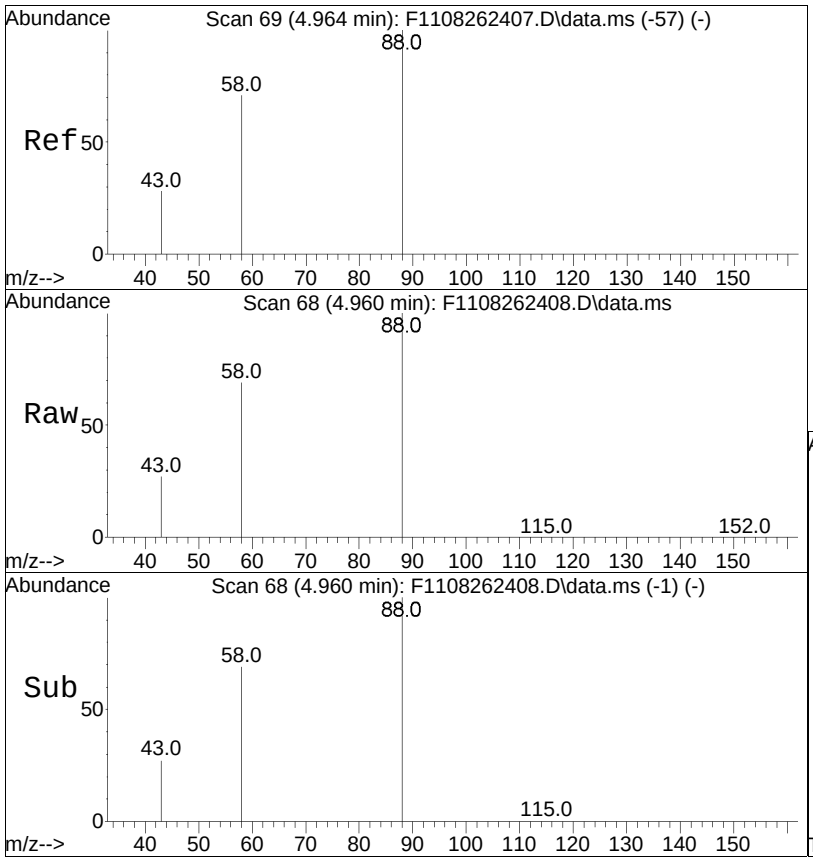
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262408.D
Acq On : 26 Aug 2024 12:31 pm
Operator : BNA11:GRS
Sample : I1108262406
Misc : WG1963991,MSBU56
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 26 14:12:48 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

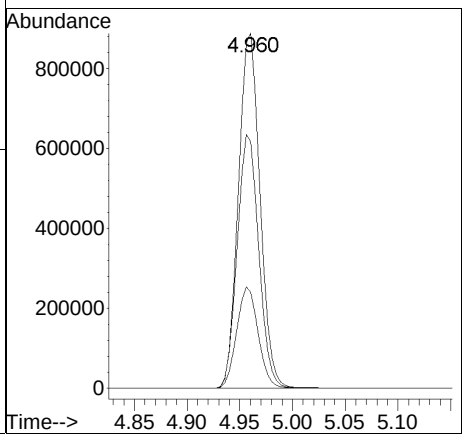




#2
1,4-dioxane
Concen: 4830.76 ng/mL
RT: 4.960 min Scan# 68
Delta R.T. -0.004 min
Lab File: F1108262408.D
Acq: 26 Aug 2024 12:31 pm

Tgt Ion: 88 Resp: 1263393

Ion	Ratio	Lower	Upper
88	100		
58	71.5	57.2	85.8
43	28.3	22.6	34.0



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1108262408.D	Operator	: BNA11:GRS
Date Inj'd	: 8/26/2024 12:31 pm	Instrument	: BNA 11
Sample	: I1108262406	Quant Date	: 8/26/2024 2:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262409.D
Acq On : 26 Aug 2024 12:54 pm
Operator : BNA11:GRS
Sample : I1108262407
Misc : WG1963991,MSBU50
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 14:12:51 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.911	64	93810	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.912	152	267557	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.911	64	93810	492.061	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.41%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.968	88	2464434	9639.982	ng/mL	100

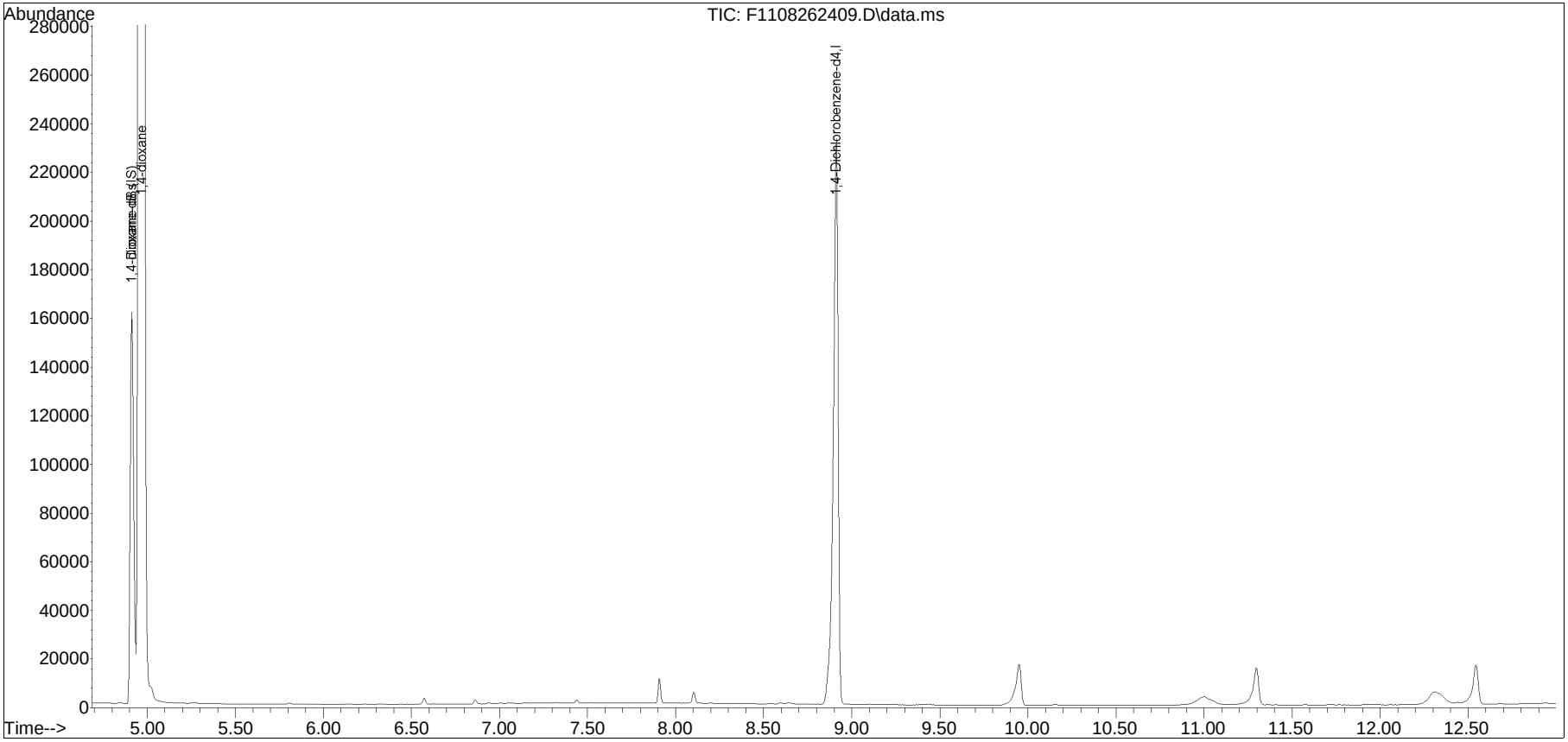
(#) = qualifier out of range (m) = manual integration (+) = signals summed

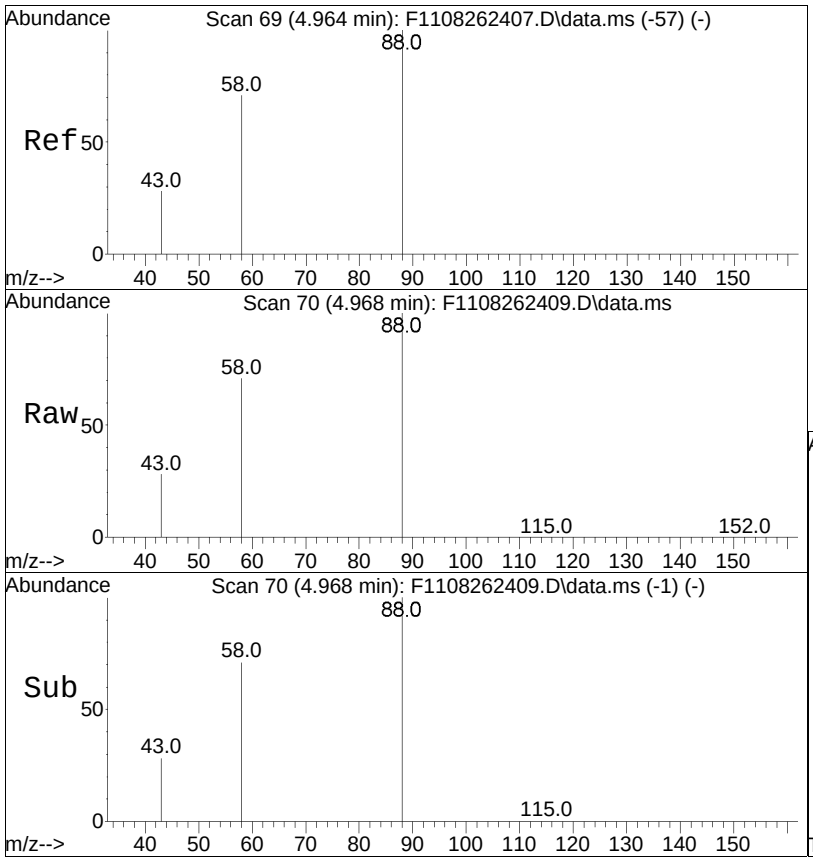
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262409.D
Acq On : 26 Aug 2024 12:54 pm
Operator : BNA11:GRS
Sample : I1108262407
Misc : WG1963991,MSBU50
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 14:12:51 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

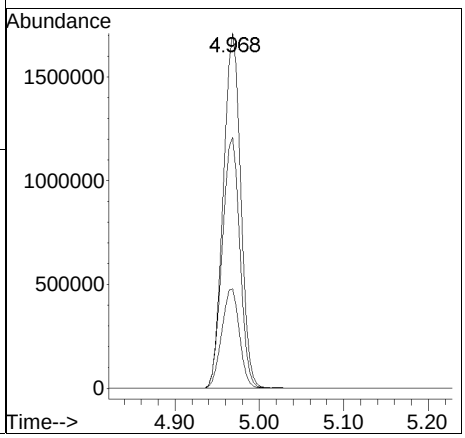




#2
1,4-dioxane
Concen: 9639.98 ng/mL
RT: 4.968 min Scan# 70
Delta R.T. 0.004 min
Lab File: F1108262409.D
Acq: 26 Aug 2024 12:54 pm

Tgt Ion: 88 Resp: 2464434

Ion	Ratio	Lower	Upper
88	100		
58	71.4	57.2	85.8
43	28.4	22.6	34.0



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1108262409.D	Operator	: BNA11:GRS
Date Inj'd	: 8/26/2024 12:54 pm	Instrument	: BNA 11
Sample	: I1108262407	Quant Date	: 8/26/2024 2:12 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262410.D
Acq On : 26 Aug 2024 1:18 pm
Operator : BNA11:GRS
Sample : CQ1108262401
Misc : WG1963991,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 14:13:08 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	97	0.00
2	1,4-dioxane	1.363	1.358	0.4	93	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
4 s	1,4-dioxane-d8	0.356	0.352	1.1	97	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262410.D
Acq On : 26 Aug 2024 1:18 pm
Operator : BNA11:GRS
Sample : CQ1108262401
Misc : WG1963991,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 14:13:08 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.903	64	89779	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.912	152	254816	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.903	64	89779	494.464	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 98.89%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.956	88	243913	996.939	ng/mL	100

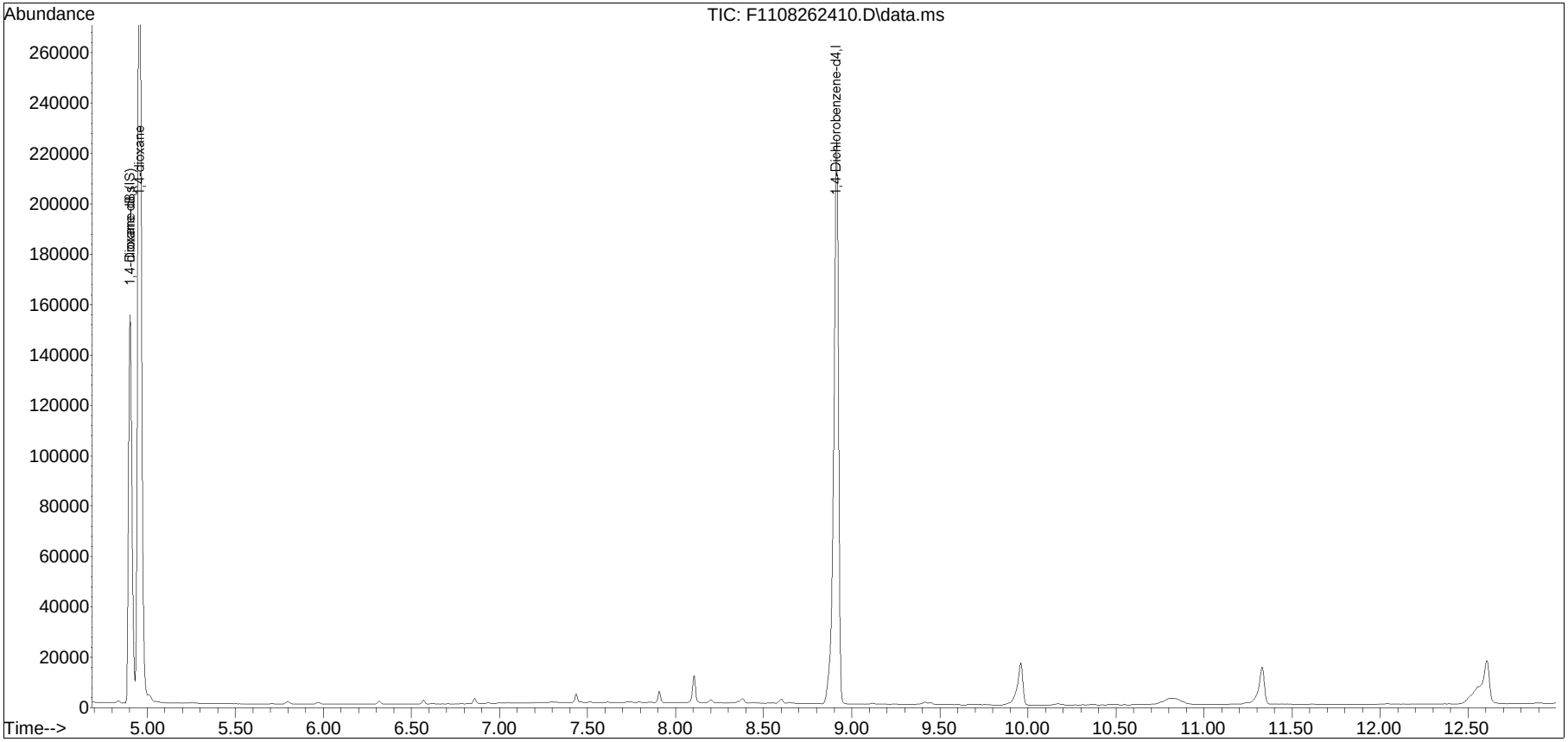
(#) = qualifier out of range (m) = manual integration (+) = signals summed

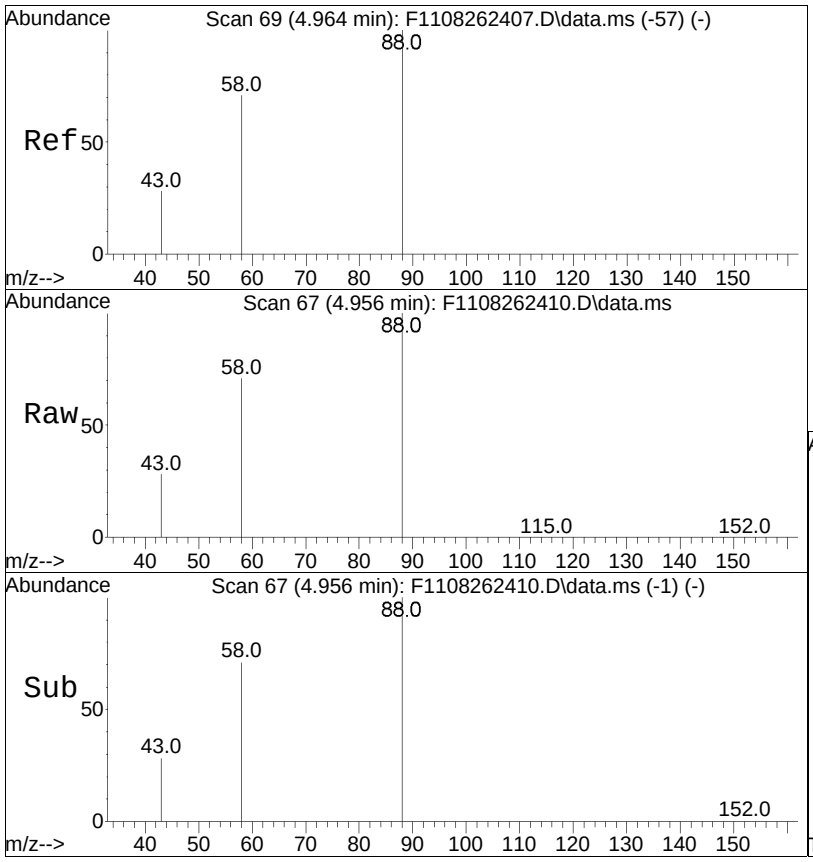
Quantitation Report (QT Reviewed)

Data Path : O:\Organics\DATA\BNA11\2024\AUG\AUG26\
Data File : F1108262410.D
Acq On : 26 Aug 2024 1:18 pm
Operator : BNA11:GRS
Sample : CQ1108262401
Misc : WG1963991,MSBU02
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 14:13:08 2024
Quant Method : O:\Organics\DATA\BNA11\2024\AUG\AUG26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Aug 26 14:12:00 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

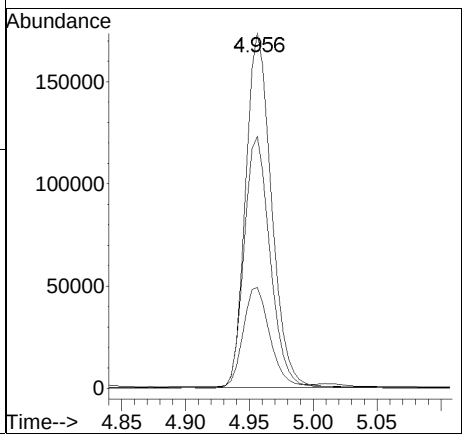




#2
1,4-dioxane
Concen: 996.94 ng/mL
RT: 4.956 min Scan# 67
Delta R.T. -0.008 min
Lab File: F1108262410.D
Acq: 26 Aug 2024 1:18 pm

Tgt Ion: 88 Resp: 243913

Ion	Ratio	Lower	Upper
88	100		
58	71.3	57.2	85.8
43	28.4	22.6	34.0



Manual Integration/Negative Proof Report

Data Path	: O:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1108262410.D	Operator	: BNA11:GRS
Date Inj'd	: 8/26/2024 1:18 pm	Instrument	: BNA 11
Sample	: CQ1108262401	Quant Date	: 8/26/2024 2:13 pm

There are no manual integrations or false positives in this file.

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: BNA11	**Calibration Date**	: 09/26/24 09:15		
Lab File ID	: F1109262402	**Init. Calib. Date(s)**	: 08/26/24	08/26/24	
Sample No	: WG1976623-2	**Init. Calib. Times**	: 09:44	12:54	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dioxane-d8 (IS)	1	1	-	0	20	121	0
1,4-dioxane	1.363	1.492	-	-9.5	20	127	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	141	0
1,4-dioxane-d8	0.356	0.306	-	14	20	121	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262402.D
Acq On : 26 Sep 2024 9:15 am
Operator : BNA11:grs
Sample : WG1976623-2
Misc : WG1976623,,ICAL21417,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 09:33:48 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:02 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	1,4-Dioxane-d8 (IS)	1.000	1.000	0.0	121	0.00
2	1,4-dioxane	1.363	1.492	-9.5	127	0.00
3 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	141	0.00
4 s	1,4-dioxane-d8	0.356	0.306	14.0	121	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262402.D
Acq On : 26 Sep 2024 9:15 am
Operator : BNA11:grs
Sample : WG1976623-2
Misc : WG1976623,,ICAL21417,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 09:33:48 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:02 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.780	64	112406	500.000	ng/mL	0.00
3) 1,4-Dichlorobenzene-d4	8.822	152	367733	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.780	64	112406	428.986	ng/mL	0.00
Spiked Amount 500.000	Range 15 - 115		Recovery = 85.80%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.833	88	335331	1094.693	ng/mL	100

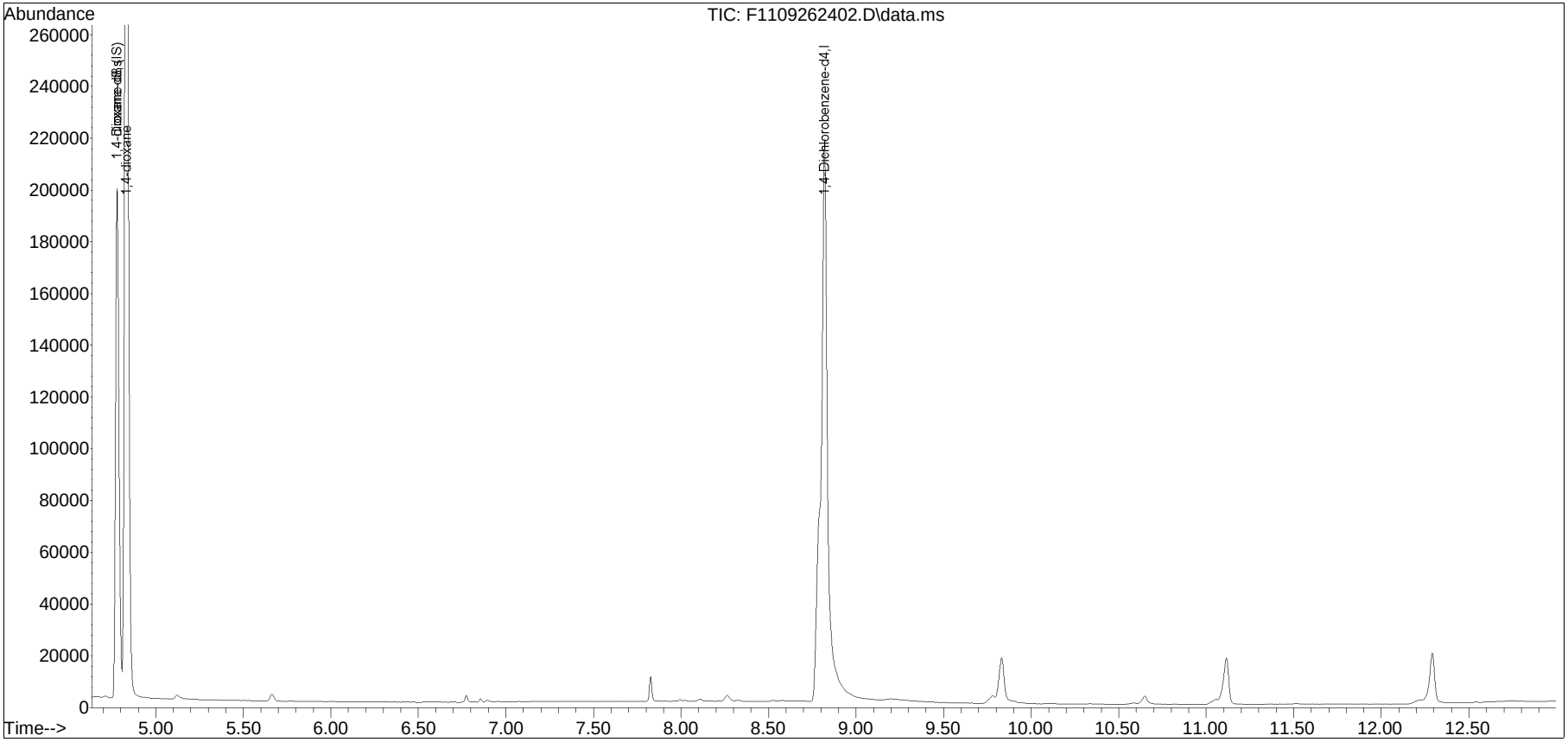
(#) = qualifier out of range (m) = manual integration (+) = signals summed

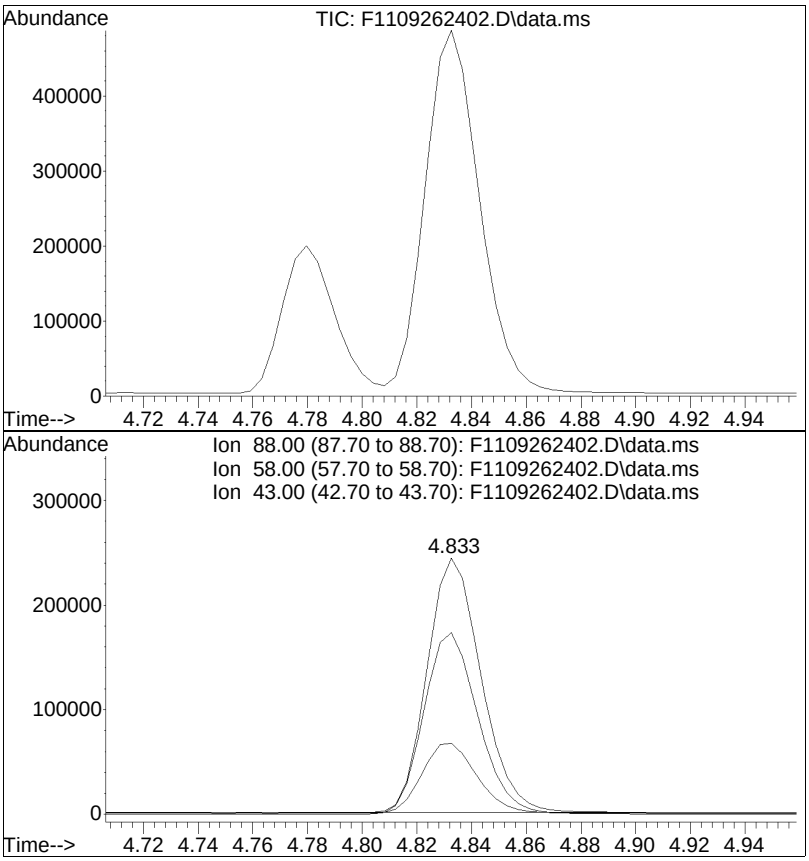
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262402.D
Acq On : 26 Sep 2024 9:15 am
Operator : BNA11:grs
Sample : WG1976623-2
Misc : WG1976623,,ICAL21417,MSBU89
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 09:33:48 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:02 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed





#2
1,4-dioxane
Concen: 1094.69 ng/mL
RT: 4.833 min Scan# 49
Delta R.T. 0.004 min
Lab File: F1109262402.D
Acq: 26 Sep 2024 9:15 am

Tgt Ion: 88 Resp: 335331

Ion	Ratio	Lower	Upper
88	100		
58	71.6	57.2	85.8
43	27.8	22.6	34.0

Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1109262402.D	Operator	: BNA11:grs
Date Inj'd	: 9/26/2024 9:15 am	Instrument	: BNA 11
Sample	: WG1976623-2	Quant Date	: 9/26/2024 9:33 am

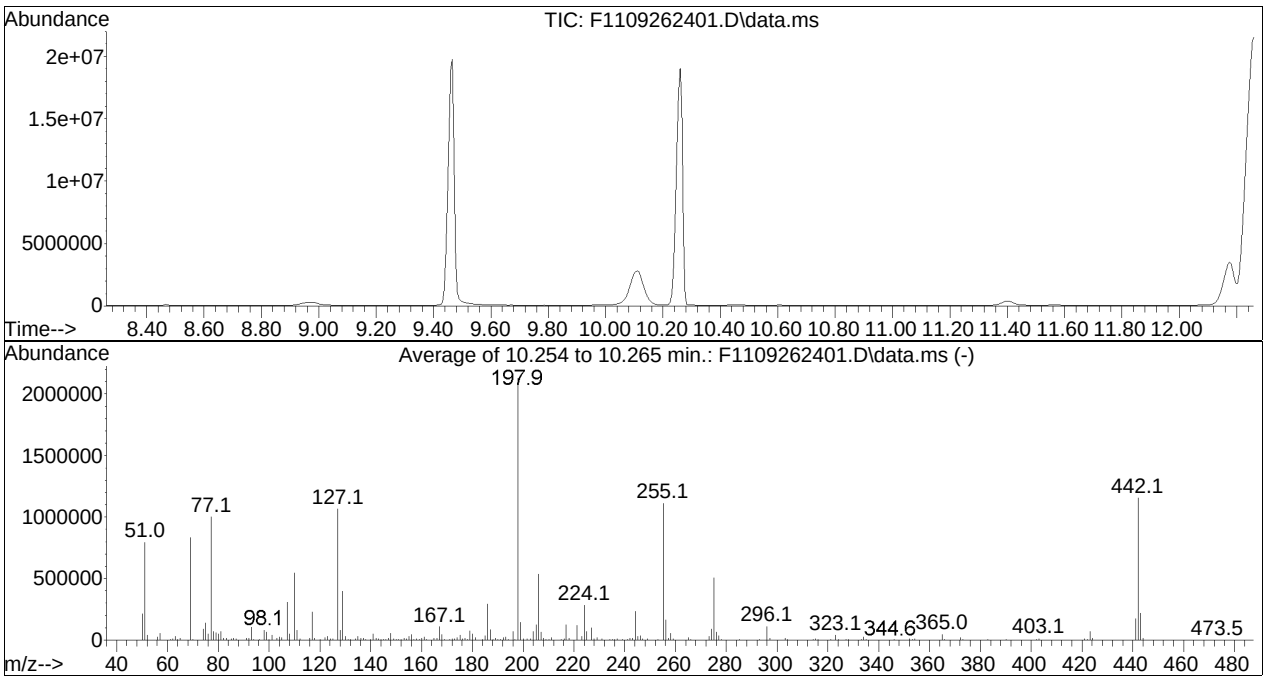
There are no manual integrations or false positives in this file.

Semivolatiles Raw QC Data

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262401.D
Acq On : 26 Sep 2024 8:39 am
Operator : BNA11:grs
Sample : WG1976623-1
Misc : WG1976623,,ICAL21417,MSBU90
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Title : Semivolatiles by GC/MS
Last Update : Mon Sep 16 11:07:01 2024



Spectrum Information: Average of 10.254 to 10.265 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.4	794987	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	4732	PASS
127	198	10	80	50.3	1067567	PASS
197	198	0.00	2	0.3	6077	PASS
198	198	100	100	100.0	2124199	PASS
199	198	5	9	6.9	147392	PASS
275	198	10	60	23.9	507179	PASS
365	198	1	100	2.2	46152	PASS
441	442	0.01	24	15.1	174827	PASS
442	198	50	100	54.5	1157589	PASS
443	442	15	24	18.8	217408	PASS

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262403.D
Acq On : 26 Sep 2024 9:42 am
Operator : BNA11:GRS
Sample : WG1974604-1,32,,
Misc : WG1976623,WG1974604,ICAL21417
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 26 14:26:17 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.792	64	41471	500.000	ng/mL	0.02
3) 1,4-Dichlorobenzene-d4	8.826	152	344128	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.792	64	41471	169.126	ng/mL	0.02
Spiked Amount 500.000	Range 15 - 115		Recovery = 33.83%			
Target Compounds						Qvalue
2) 1,4-dioxane	0.000		0	N.D.	d	

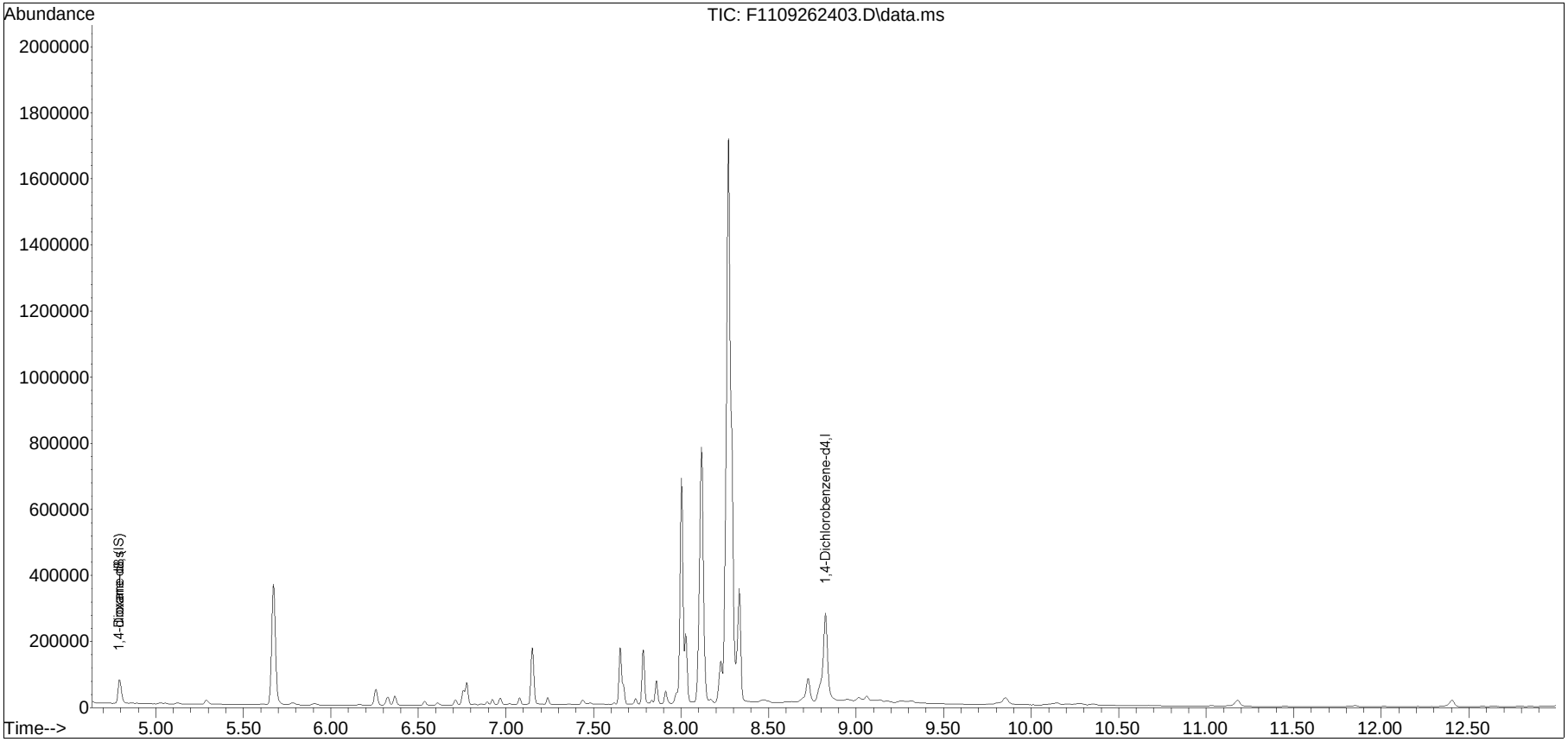
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262403.D
Acq On : 26 Sep 2024 9:42 am
Operator : BNA11:GRS
Sample : WG1974604-1,32,,
Misc : WG1976623,WG1974604,ICAL21417
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 26 14:26:17 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:01 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1109262403.D	Operator	: BNA11:GRS
Date Inj'd	: 9/26/2024 9:42 am	Instrument	: BNA 11
Sample	: WG1974604-1,32,,	Quant Date	: 9/26/2024 2:25 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262404.D
Acq On : 26 Sep 2024 10:05 am
Operator : BNA11:GRS
Sample : WG1974604-2,32,,
Misc : WG1976623,WG1974604,ICAL21417
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 26 14:25:13 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:02 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.808	64	35651	500.000	ng/mL	0.03
3) 1,4-Dichlorobenzene-d4	8.822	152	334085	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.808	64	35651	149.762	ng/mL	0.03
Spiked Amount 500.000	Range 15 - 115		Recovery = 29.95%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.861	88	57191	588.660	ng/mL	99

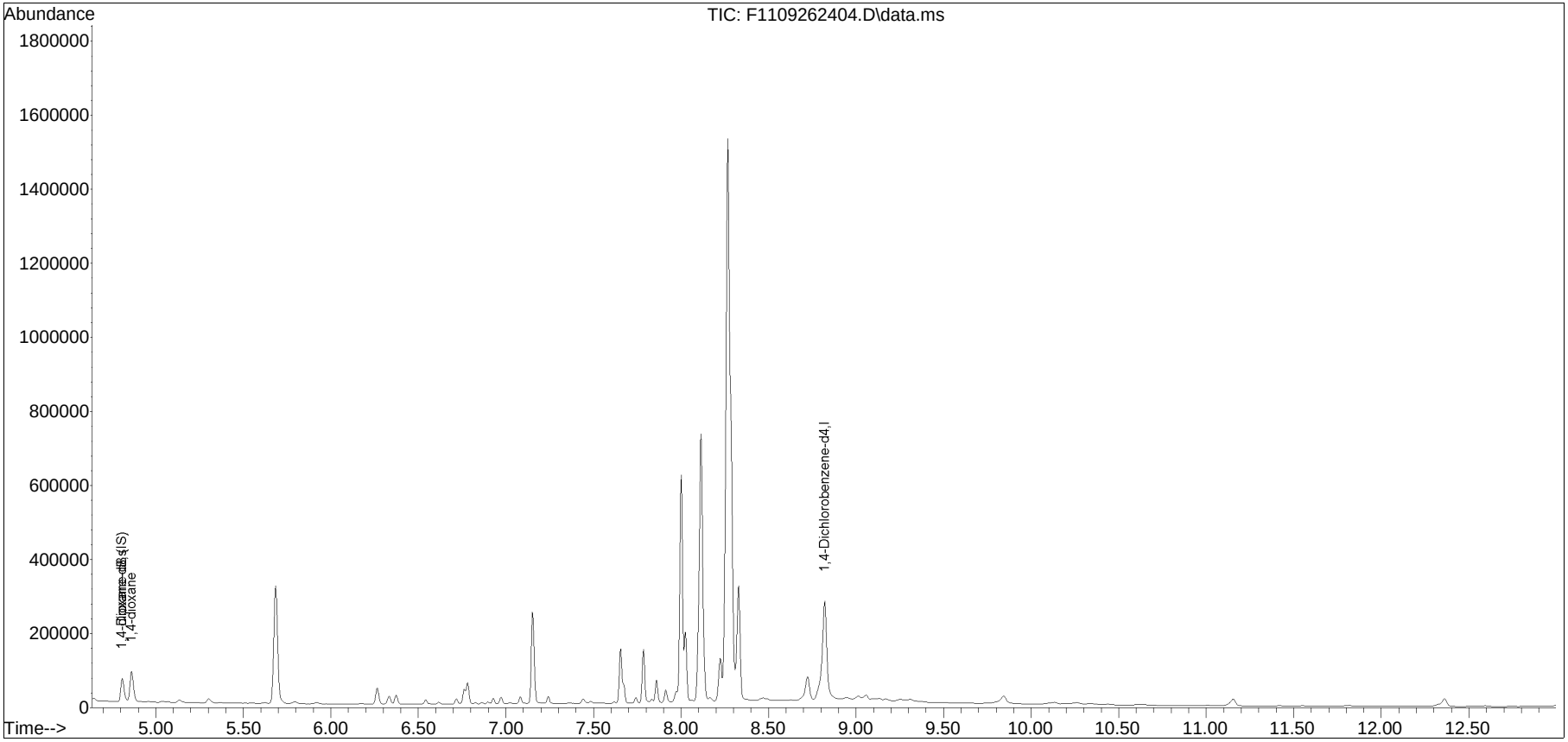
(#) = qualifier out of range (m) = manual integration (+) = signals summed

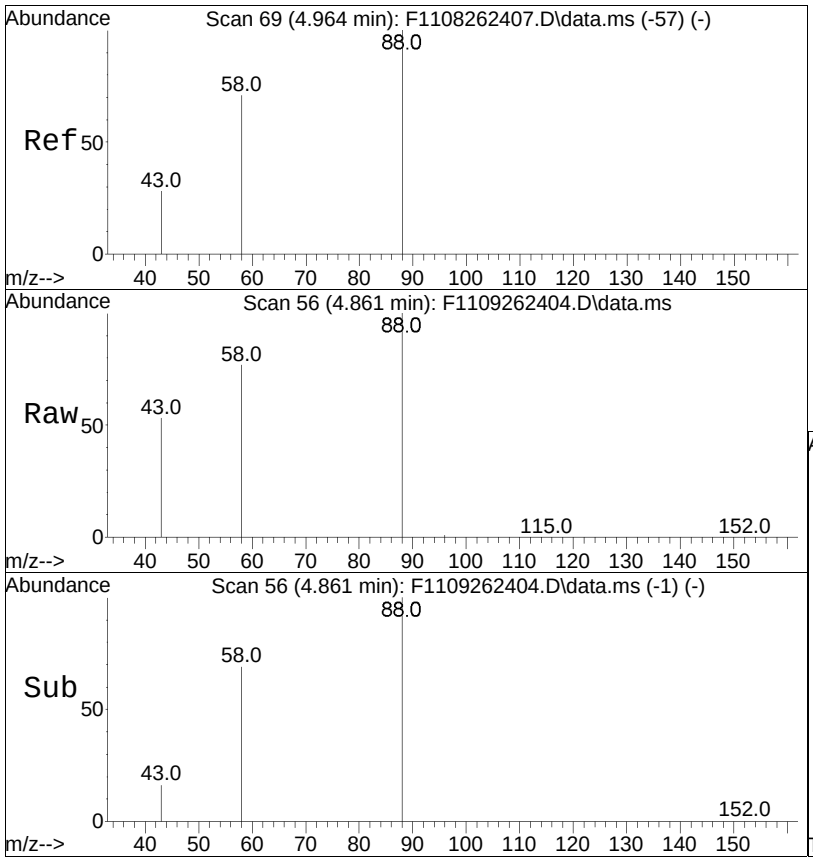
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262404.D
Acq On : 26 Sep 2024 10:05 am
Operator : BNA11:GRS
Sample : WG1974604-2,32,,
Misc : WG1976623,WG1974604,ICAL21417
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 26 14:25:13 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:02 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

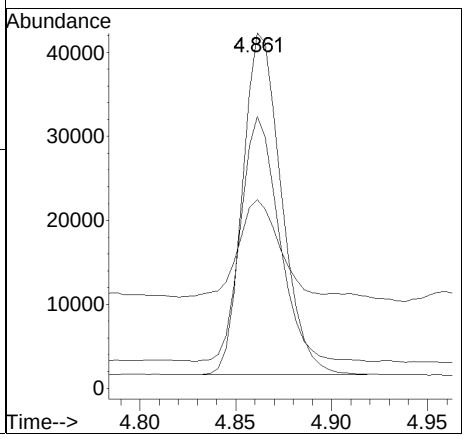




#2
1,4-dioxane
Concen: 588.66 ng/mL
RT: 4.861 min Scan# 56
Delta R.T. 0.032 min
Lab File: F1109262404.D
Acq: 26 Sep 2024 10:05 am

Tgt Ion: 88 Resp: 57191

Ion	Ratio	Lower	Upper
88	100		
58	70.7	57.2	85.8
43	29.1	22.6	34.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1109262404.D	Operator	: BNA11:GRS
Date Inj'd	: 9/26/2024 10:05 am	Instrument	: BNA 11
Sample	: WG1974604-2,32,,	Quant Date	: 9/26/2024 2:25 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262405.D
Acq On : 26 Sep 2024 10:29 am
Operator : BNA11:GRS
Sample : WG1974604-3,32,,
Misc : WG1976623,WG1974604,ICAL21417
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 26 14:25:15 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:02 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8 (IS)	4.821	64	41037	500.000	ng/mL	0.04
3) 1,4-Dichlorobenzene-d4	8.826	152	334810	500.000	ng/mL	0.00
System Monitoring Compounds						
4) 1,4-dioxane-d8	4.821	64	41037	172.014	ng/mL	0.04
Spiked Amount 500.000	Range 15 - 115		Recovery = 34.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	4.873	88	68033	608.348	ng/mL	98

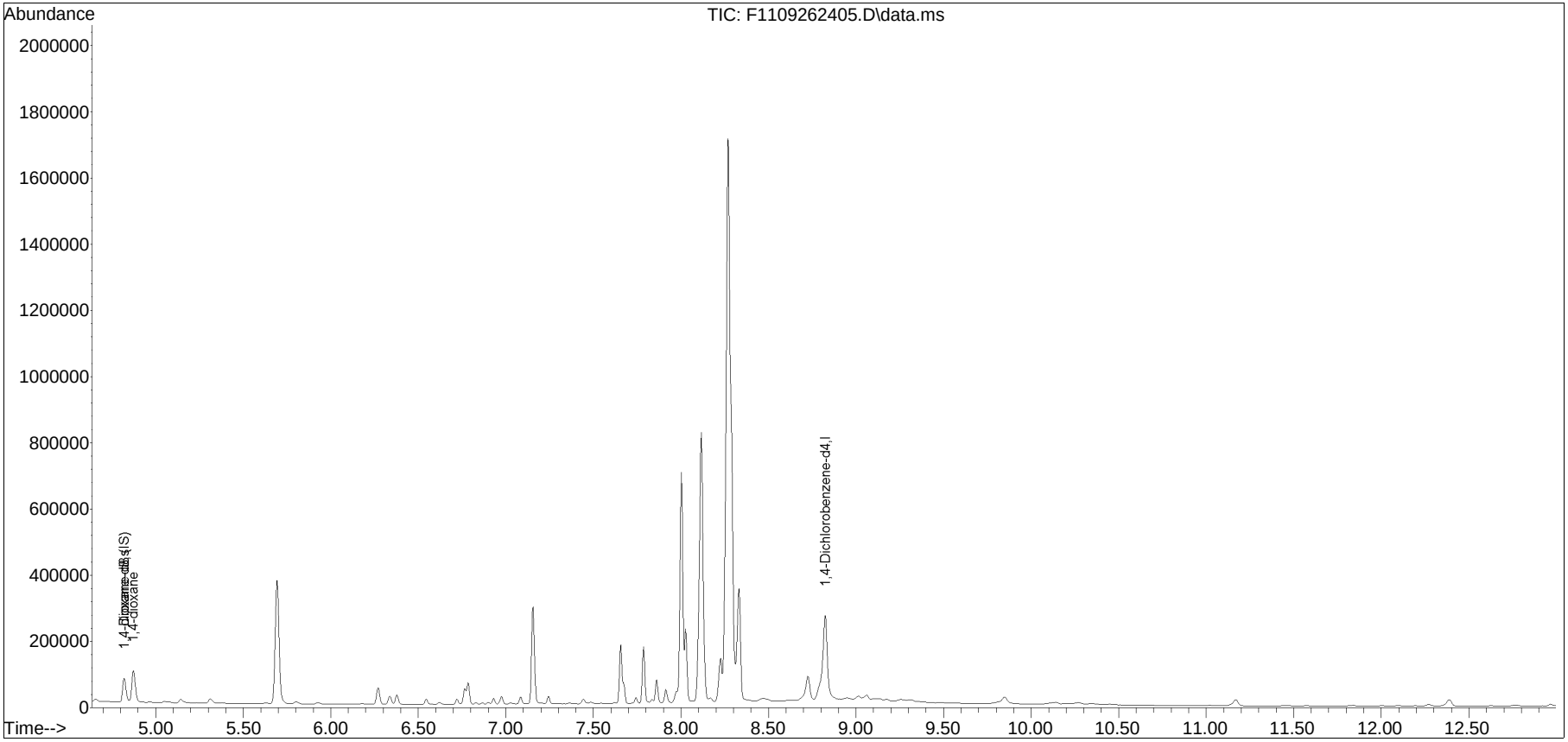
(#) = qualifier out of range (m) = manual integration (+) = signals summed

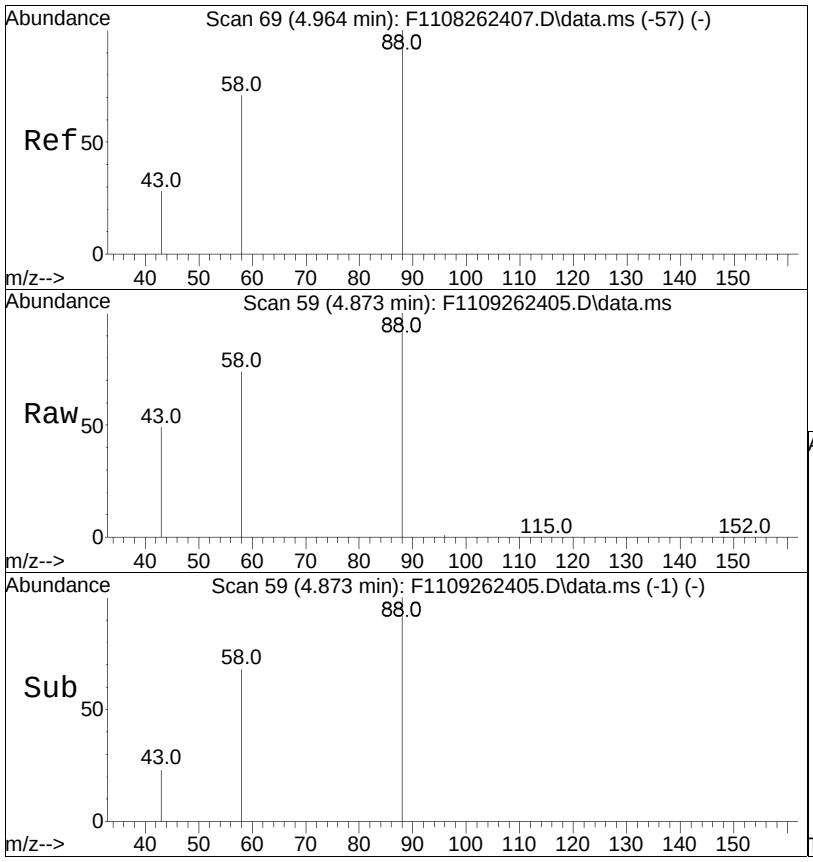
Quantitation Report (QT Reviewed)

Data Path : S:\Organics\DATA\BNA11\2024\SEP\SEP26\
Data File : F1109262405.D
Acq On : 26 Sep 2024 10:29 am
Operator : BNA11:GRS
Sample : WG1974604-3,32,,
Misc : WG1976623,WG1974604,ICAL21417
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 26 14:25:15 2024
Quant Method : S:\Organics\DATA\BNA11\2024\SEP\SEP26\14DIOX0826BNA11.M
Quant Title : Semivolatiles by GC/MS
QLast Update : Mon Sep 16 11:07:02 2024
Response via : Initial Calibration

Sub List : Default - All compounds listed

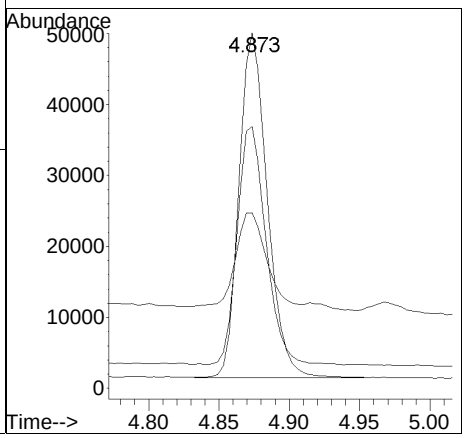




#2
1,4-dioxane
Concen: 608.35 ng/mL
RT: 4.873 min Scan# 59
Delta R.T. 0.045 min
Lab File: F1109262405.D
Acq: 26 Sep 2024 10:29 am

Tgt Ion: 88 Resp: 68033

Ion	Ratio	Lower	Upper
88	100		
58	69.3	57.2	85.8
43	28.5	22.6	34.0



Manual Integration/Negative Proof Report

Data Path	: S:\Organics\DATA\BNA11\2024Q	Method	: 14DIOX0826BNA11.M
Data File	: F1109262405.D	Operator	: BNA11:GRS
Date Inj'd	: 9/26/2024 10:29 am	Instrument	: BNA 11
Sample	: WG1974604-3,32,,	Quant Date	: 9/26/2024 2:25 pm

There are no manual integrations or false positives in this file.

Calculation of Semi Volatile Organic Compounds

Results of Water Analysis- calculation as performed in report form:

$$\text{Concentration (ug/L)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{Vi})} \times 1000$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
Vi= Volume of sample extracted (mL)
DF= Dilution factor

Results of Sediment/Soil Analysis- calculation as performed in report form:

$$\text{Concentration (ug/Kg)} = \frac{(\text{Conc})\ (\text{Vf})\ (\text{DF})}{(\text{W})\ (\%\text{S})}$$

where:
Conc =Raw on-column concentration obtained from the quantitation report using Initial Calibration results.
Vf = Final volume of extract (mL)
W= Aliquot of sample (wet), g
DF= Dilution factor
%S= Sample %solid (in decimal form)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 27 2024, 12:58 pm

Work Group: WG1976623 for Department: 32 GC/MS - Semivolatiles

Created: 26-SEP-24 Due: Operator: GRS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453335-01	HRP-MW5A-091724	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0924	0924	S0	Amber-A.25
L2453335-02	HRP-MW5B-091724	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0924	0924	S0	Amber-A.25
L2453335-03	MW-21B-091724	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0924	0924	S0	Amber-A.25
L2453335-04	MW-21A-091724	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0924	0924	S0	Amber-A.25
L2453335-05	HRP-MW3-091724	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0924	0924	S0	Amber-A.25
L2453335-06	HRP-MW1-091724	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U	0924	0924	S0	Amber-A.25
L2453397-01	MAHWAH RO-TYPE II	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0924	0924	NC	Amber-A.25
L2453603-01	2040917MW-15V12NWC	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0924	0925	S0	Amber-A.25
L2453603-02	2040918MW-16V21	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0925	0925	S0	Amber-A.25
L2453603-03	2040918MW-202V10NWC	S	A2-NJ-14DIOXSIM-PPB	WATER	DACQ	U	0925	0925	S0	Amber-A.25
L2453603-04	2040918MW-406V45	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0925	0925	S0	Amber-A.25
L2453603-05	2040917WCFB	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0924	0925	S0	Amber-A.25
L2453603-06	2040918WCFB	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U	0925	0925	S0	Amber-A.25
L2453611-01	HP-SP503-EFF-09182024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0925	0925	S0	Amber-A.25
L2453611-02	HP-SP201-INF-09182024	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0925	0925	S0	Amber-A.25
L2453720-01	MW-8S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U	0925	0925	S0	Amber-A.25
WG1974600-1	Laboratory Method Bl	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1974600-2	Laboratory Control S	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1974600-3	LCS Duplicate	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1974602-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974602-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974602-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974602-4	Matrix Spike	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974602-5	Duplicate Sample	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974603-1	Laboratory Method Bl	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974603-2	Laboratory Control S	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974603-3	LCS Duplicate	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1974604-1	Laboratory Method Bl	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1974604-2	Laboratory Control S	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1974604-3	LCS Duplicate	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976623-1	MS DFTPP Tune Standa	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976623-1	MS DFTPP Tune Standa	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				
WG1976623-1	MS DFTPP Tune Standa	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976623-2	Continuing Calibrati	S	A2-1,4-DIOXANE-SIM	WATER	DONE	U				
WG1976623-2	Continuing Calibrati	S	A2-14-DIOXANESIM-PPB	WATER	DONE	U				
WG1976623-2	Continuing Calibrati	S	A2-NJ-14DIOXSIM-PPB	WATER	DONE	U				

Comments:

WG1974600-3	WG1974600-2
WG1974602-3	WG1974602-2
WG1974602-4	L2453603-01
WG1974602-5	L2453603-02
WG1974603-3	WG1974603-2
WG1974604-3	WG1974604-2

Analysis log File

Total Files Reported in Log : 10
Log Generated From Directory: O:\Organics\DATA\BNA11\2024\AUG\AUG26\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F1108262401.D	DFTPP_BNA11.	T1108262401	WG1963991,MSBU36	8/26/2024 8:44 am
2	F1108262402.D	14DIOXANEBNA	L1	ADJUSTED SOLVENT DELAY	8/26/2024 9:20 am
3	F1108262403.D	14DIOXANEBNA	I1108262401	WG1963991,MSBU51	8/26/2024 9:44 am
4	F1108262404.D	14DIOXANEBNA	I1108262402	WG1963991,MSBU52	8/26/2024 10:58 am
5	F1108262405.D	14DIOXANEBNA	I1108262403	WG1963991,MSBU53	8/26/2024 11:21 am
6	F1108262406.D	14DIOXANEBNA	I1108262404	WG1963991,MSBU54	8/26/2024 11:44 am
7	F1108262407.D	14DIOXANEBNA	I1108262405	WG1963991,MSBU55	8/26/2024 12:07 pm
8	F1108262408.D	14DIOXANEBNA	I1108262406	WG1963991,MSBU56	8/26/2024 12:31 pm
9	F1108262409.D	14DIOXANEBNA	I1108262407	WG1963991,MSBU50	8/26/2024 12:54 pm
10	F1108262410.D	14DIOXANEBNA	CQ1108262401	WG1963991,MSBU02	8/26/2024 1:18 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 26
Log Generated From Directory: S:\Organics\DATA\BNA11\2024\SEP\SEP26\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	F1109262401.D	DFTPP_BNA11.	WG1976623-1	WG1976623,,ICAL21417,MS..	9/26/2024 8:39 am
2	F1109262402.D	14DIOXANEBNA	WG1976623-2	WG1976623,,ICAL21417,MS..	9/26/2024 9:15 am
3	F1109262403.D	14DIOXANEBNA	WG1974602-1,32,,	WG1976623,WG1974602,ICA..	9/26/2024 9:42 am
4	F1109262404.D	14DIOXANEBNA	WG1974602-2,32,,	WG1976623,WG1974602,ICA..	9/26/2024 10:05 am
5	F1109262405.D	14DIOXANEBNA	WG1974602-3,32,,	WG1976623,WG1974602,ICA..	9/26/2024 10:29 am
6	F1109262406.D	14DIOXANEBNA	L2453603-01,32,,	WG1976623,WG1974602,ICA..	9/26/2024 10:52 am
7	F1109262407.D	14DIOXANEBNA	WG1974602-4,32,,	WG1976623,WG1974602,ICA..	9/26/2024 11:14 am
8	F1109262408.D	14DIOXANEBNA	L2453603-02,32,,	WG1976623,WG1974602,ICA..	9/26/2024 11:37 am
9	F1109262409.D	14DIOXANEBNA	L2453603-03,32,,	IS INTERFERENCE, SEE 5X..	9/26/2024 11:59 am
10	F1109262410.D	14DIOXANEBNA	L2453603-04,32,,	WG1976623,WG1974602,ICA..	9/26/2024 12:22 pm
11	F1109262411.D	14DIOXANEBNA	L2453603-05,32,,	WG1976623,WG1974602,ICA..	9/26/2024 12:44 pm
12	F1109262412.D	14DIOXANEBNA	L2453603-06,32,,	WG1976623,WG1974602,ICA..	9/26/2024 1:07 pm
13	F1109262413.D	14DIOXANEBNA	L2453335-01,32,,	WG1976623,WG1974600,ICA..	9/26/2024 1:29 pm
14	F1109262414.D	14DIOXANEBNA	L2453335-02,32,,	WG1976623,WG1974600,ICA..	9/26/2024 1:52 pm
15	F1109262415.D	14DIOXANEBNA	L2453335-03,32,,	WG1976623,WG1974600,ICA..	9/26/2024 2:15 pm
16	F1109262416.D	14DIOXANEBNA	L2453335-04,32,,	WG1976623,WG1974600,ICA..	9/26/2024 2:38 pm
17	F1109262417.D	14DIOXANEBNA	L2453335-05,32,,	WG1976623,WG1974600,ICA..	9/26/2024 3:00 pm
18	F1109262418.D	14DIOXANEBNA	L2453335-06,32,,	WG1976623,WG1974600,ICA..	9/26/2024 3:23 pm
19	F1109262419.D	14DIOXANEBNA	L2453611-01,32,,	WG1976623,WG1974604,ICA..	9/26/2024 3:46 pm
20	F1109262420.D	14DIOXANEBNA	L2453611-02,32,,	WG1976623,WG1974604,ICA..	9/26/2024 4:09 pm
21	F1109262421.D	14DIOXANEBNA	L2453720-01,32,,	WG1976623,WG1974604,ICA..	9/26/2024 4:32 pm
22	F1109262422.D	14DIOXANEBNA	L2453397-01,32,,	WG1976623,WG1974603,ICA..	9/26/2024 4:55 pm
23	F1109262423.D	14DIOXANEBNA	WG1974602-5,32,,	WG1976623,WG1974602,ICA..	9/26/2024 5:18 pm
24	F1109262424.D	14DIOXANEBNA	L2453603-03D,32,5	IS INTERFERENCE, SEE 10..	9/26/2024 5:41 pm
25	F1109262425.D	14DIOXANEBNA	L2452728-.1D,32,10	DUP OVERCAL, SEE RR	9/26/2024 6:04 pm
26	F1109262426.D	14DIOXANEBNA	WG1972310-4D,32,5	OVERCAL, SEE 10X DL	9/26/2024 6:27 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

ORGANIC ELN REPORT

Workgroup: WG1974604

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EF852-US
Surrogate Type: 1,4-DIOXANE **Lot #:** MSBU58
Spike Type: 1,4-DIOXANE **Lot #:** MSBU59
Spike Verify by: EKC
Lims Spikelot: 14DIOXANE

Additional Reagents/Stds

Glass Wool	16022999
Na2SO4	ON091324E

Conc.Method: S-EVAP
Solvent Type: DCM
Lot #: EF852-US

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453611-01 SAMP	09/21/24 13:40	Alannah Corcoran	250	7	0.25		09/21/24 16:25	Emma Canning	2.5	SEVAP 3
L2453611-02 SAMP	09/21/24 13:40	Alannah Corcoran	260	7	0.25		09/21/24 16:25	Emma Canning	2.5	SEVAP 3
L2453720-01 SAMP	09/21/24 13:40	Alannah Corcoran	270	7	0.25		09/21/24 16:25	Emma Canning	2.5	SEVAP 3
WG1974604-1 BLANK	09/21/24 13:40	Alannah Corcoran	250	7	0.25		09/21/24 16:25	Emma Canning	2.5	SEVAP 3
	SHARES QCS WITH WG1974600, WG1974603, AND WG1974602									
WG1974604-2 LCS	09/21/24 13:40	Alannah Corcoran	250	7	0.25	0.25	09/21/24 16:25	Emma Canning	2.5	SEVAP 3
WG1974604-3 LCSD	09/21/24 13:40	Alannah Corcoran	250	7	0.25	0.25	09/21/24 16:25	Emma Canning	2.5	SEVAP 3

Reported: 27-SEP-24 12:58 PM

GC Extractable Analysis
Herbicides

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453720
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

GC Column 1: STX-CLP1
GC Column 2: STX-CLP2

CLIENT ID (LAB SAMPLE NO.)	1 %REC	2 %REC	1 %REC	2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-8S (L2453720-01)	82	80	--	--			0
MW-8D (L2453720-02)	86	84	--	--			0
DUP_091824 (L2453720-03)	90	85	--	--			0
EQUIPMENT BLANK (L2453720-04)	92	89	--	--			0
MW-5D (L2453720-06)	87	83	--	--			0
PZ-5 (L2453720-07)	88	85	--	--			0
MW-12S (L2453720-08)	88	85	--	--			0
MW-12D (L2453720-09)	85	82	--	--			0
WG1975468-1BLANK	91	86	--	--			0
WG1975468-2LCS	92	102	--	--			0
WG1975468-3LCSD	88	98	--	--			0
MW-8DMS	86	94	--	--			0
MW-8DMSD	93	101	--	--			0

QC LIMITS
(30-150) S1 = DCAA

*** Values outside of QC limits**

FORM II HERB-8151

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1975468-2 **Analysis Date** : 09/25/24 08:11	**File ID**	: 16240925a-05
LCSD Sample ID	: WG1975468-3 **Analysis Date** : 09/25/24 08:30	**File ID**	: 16240925a-06

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	500	578	116	500	540	108	7	30-150	25
MCPA	500	538	108	500	504	101	7	30-150	25
Dalapon	5	3.78	76	5	4.19	84	10	30-150	25
Dicamba	5	5.14	103	5	4.89	98	5	30-150	25
Dichloroprop	5	5.46	109	5	5.41	108	1	30-150	25
2,4-D	5	5.45	109	5	5.31	106	3	30-150	25
2,4-DB	5	5.61	112	5	5.60	112	0	30-150	25
2,4,5-T	5	5.30	106	5	5.07	101	5	30-150	25
2,4,5-TP (Silvex)	5	5.14	103	5	4.84	97	6	30-150	25
Dinoseb	5	3.29	66	5	3.34	67	2	30-150	25

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/27/24 06:13
Matrix Spike	: WG1975468-4	**MS Analysis Date**	: 09/27/24 06:31
Matrix Spike Dup	: WG1975468-5	**MSD Analysis Date**	: 09/27/24 06:50

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
MCPP	ND	500	559	112	500	590	118	5	30-150	25
MCPA	ND	500	487J	97	500	520	104	7	30-150	25
Dalapon	ND	5	3.21J	64	5	3.38J	68	5	30-150	25
Dicamba	ND	5	4.71	94	5	5.06	101	7	30-150	25
Dichloroprop	ND	5	4.98J	100	5	5.09J	102	2	30-150	25
2,4-D	ND	5	4.56J	91	5	4.88J	98	7	30-150	25
2,4-DB	ND	5	4.89J	98	5	5.24J	105	7	30-150	25
2,4,5-T	ND	5	4.64	93	5	5.01	100	8	30-150	25
2,4,5-TP (Silvex)	ND	5	4.48	90	5	4.82	96	7	30-150	25
Dinoseb	ND	5	2.98J	60	5	3.21J	64	7	30-150	25

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1975468-1	**Lab File ID**	: 16240925a-04
Matrix	: WATER	**Extraction Date**	: 09/24/24
Analysis Date (1)	: 09/25/24 07:44	**Analysis Date (2)**	: 09/25/24 07:44
Instrument ID (1)	: PEST16	**Instrument ID (2)**	: PEST16

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1975468-2LCS	WG1975468-2	09/25/24 08:11	09/25/24 08:11
WG1975468-3LCSD	WG1975468-3	09/25/24 08:30	09/25/24 08:30
MW-8D	L2453720-02	09/27/24 06:13	09/27/24 06:13
MW-8DMS	WG1975468-4	09/27/24 06:31	09/27/24 06:31
MW-8DMSD	WG1975468-5	09/27/24 06:50	09/27/24 06:50
MW-8S	L2453720-01	09/27/24 07:09	09/27/24 07:09
DUP_091824	L2453720-03	09/27/24 07:27	09/27/24 07:27
EQUIPMENT BLANK	L2453720-04	09/27/24 07:46	09/27/24 07:46
MW-5D	L2453720-06	09/27/24 08:04	09/27/24 08:04
PZ-5	L2453720-07	09/27/24 08:42	09/27/24 08:42
MW-12S	L2453720-08	09/27/24 09:00	09/27/24 09:00
MW-12D	L2453720-09	09/27/24 09:19	09/27/24 09:19

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST22	**Initial Calib. Date(s)**	: 09/20/24 09/20/24

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1879093-1	09/20/24 11:42
Herbicides L2	R1879093-2	09/20/24 12:01
Herbicides L3	R1879093-3	09/20/24 12:20
Herbicides L4	R1879093-4	09/20/24 12:38
Herbicides L5	R1879093-5	09/20/24 12:57
Herbicides L6	R1879093-6	09/20/24 13:15
R1879093-7 ICV	R1879093-7	09/20/24 13:34
WG1976540-6 CCAL	WG1976540-6	09/27/24 03:26
MW-8D	L2453720-02	09/27/24 06:13
MW-8D MS	WG1975468-4	09/27/24 06:31
MW-8D MSD	WG1975468-5	09/27/24 06:50
MW-8S	L2453720-01	09/27/24 07:09
DUP_091824	L2453720-03	09/27/24 07:27
EQUIPMENT BLANK	L2453720-04	09/27/24 07:46
MW-5D	L2453720-06	09/27/24 08:04
WG1976540-7 CCAL	WG1976540-7	09/27/24 08:23
PZ-5	L2453720-07	09/27/24 08:42
MW-12S	L2453720-08	09/27/24 09:00
MW-12D	L2453720-09	09/27/24 09:19

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST16	**Initial Calib. Date(s)**	: 08/29/24 08/29/24

Client ID	Lab ID	Date/Time Analyzed
Herbicides L1	R1871806-1	08/29/24 12:47
Herbicides L2	R1871806-2	08/29/24 13:07
Herbicides L3	R1871806-3	08/29/24 13:26
Herbicides L4	R1871806-4	08/29/24 13:46
Herbicides L5	R1871806-5	08/29/24 14:05
Herbicides L6	R1871806-6	08/29/24 14:25
R1871806-7 ICV	R1871806-7	08/29/24 14:45
WG1975970-1 CCAL	WG1975970-1	09/25/24 06:36
WG1975468-1 BLANK	WG1975468-1	09/25/24 07:44
WG1975468-2 LCS	WG1975468-2	09/25/24 08:11
WG1975468-3 LCSD	WG1975468-3	09/25/24 08:30

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14024-1
Page: 1

Herbicides -EPA 8151A Long List (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	500	58.5	ug/l	30-150	25	30-150	25	25			
MCPA	94-74-6	500	63.2	ug/l	30-150	25	30-150	25	25			
Dalapon	75-99-0	20	0.81	ug/l	30-150	25	30-150	25	25			
Dicamba	1918-00-9	1	0.243	ug/l	30-150	25	30-150	25	25			
Dichloroprop	120-36-5	10	0.564	ug/l	30-150	25	30-150	25	25			
2,4-D	94-75-7	10	0.498	ug/l	30-150	25	30-150	25	25			
2,4-DB	94-82-6	10	0.729	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.531	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.539	ug/l	30-150	25	30-150	25	25			
Dinoseb	88-85-7	5	0.573	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Herbicides -EPA 8151A Long List (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
MCPP	93-65-2	3.33	1.04895	mg/kg	30-150	30	30-150	30	30			
MCPA	94-74-6	3.33	0.94239	mg/kg	30-150	30	30-150	30	30			
Dalapon	75-99-0	0.0333	0.0108891	mg/kg	30-150	30	30-150	30	30			
Dicamba	1918-00-9	0.0333	0.0055944	mg/kg	30-150	30	30-150	30	30			
Dichloroprop	120-36-5	0.0333	0.0095571	mg/kg	30-150	30	30-150	30	30			
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4-DB	94-82-6	0.1665	0.0085581	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Herbicide Sample Data

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 07:09
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-76	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 06:13
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-73	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 07:27
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-77	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 07:46
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-78	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 08:04
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-79	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 08:42
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-81	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 09:00
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-82	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/27/24 09:19
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 22240926a-83	**Analyst**	: AKM
Sample Amount	: 1000 ml	**Instrument ID**	: PEST22
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Results Summary
Form 1
Chlorinated Herbicides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975468-1	**Date Collected**	: NA
Client ID	: WG1975468-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 07:44
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8151A	**Dilution Factor**	: 1
Lab File ID	: 16240925a-04	**Analyst**	: EMR
Sample Amount	: 1000 ml	**Instrument ID**	: PEST16
Extraction Method	: EPA 8151A	**GC Column**	: STX-CLP1
Extract Volume	: 10000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
93-65-2	MCPP	ND	500	58.5	U
94-74-6	MCPA	ND	500	63.2	U
75-99-0	Dalapon	ND	20.0	0.810	U
1918-00-9	Dicamba	ND	1.00	0.243	U
120-36-5	Dichloroprop	ND	10.0	0.564	U
94-75-7	2,4-D	ND	10.0	0.498	U
94-82-6	2,4-DB	ND	10.0	0.729	U
93-76-5	2,4,5-T	ND	2.00	0.531	U
93-72-1	2,4,5-TP (Silvex)	ND	2.00	0.539	U
88-85-7	Dinoseb	ND	5.00	0.573	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-73.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 06:13
Operator : pest22:akm
Sample : L2453720-02,42,, p
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:11 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.435	1384.2E6	1782.9E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery = 105.56%		
	Standard Area 1 : #2 = 1679118582				Recovery = 106.18%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.891	7.361	438.4E6	568.8E6	0.430M4	0.421M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	86.00%	84.20%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

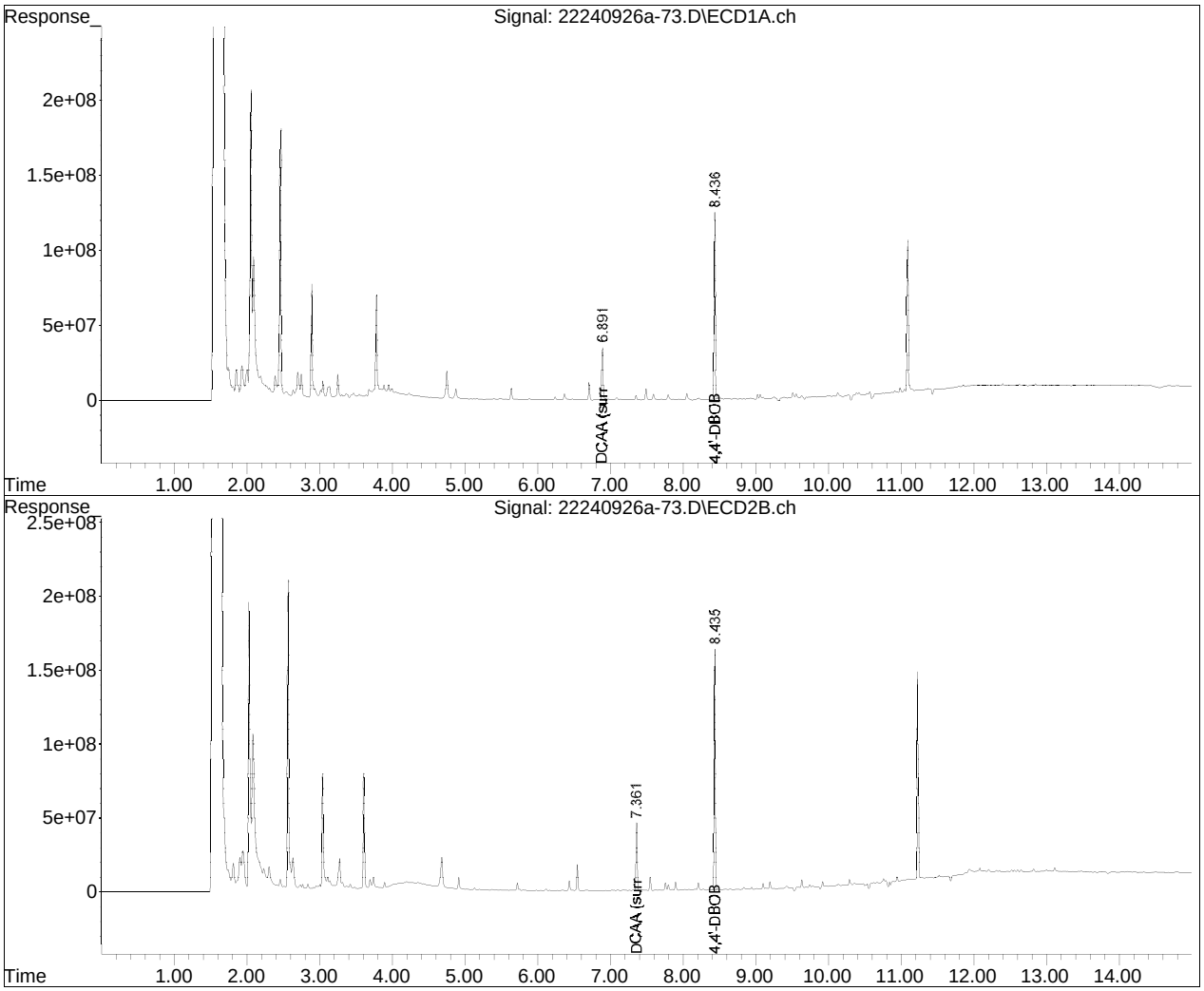
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-73.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 06:13
Operator : pest22:akm
Sample : L2453720-02,42,, p
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:11 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

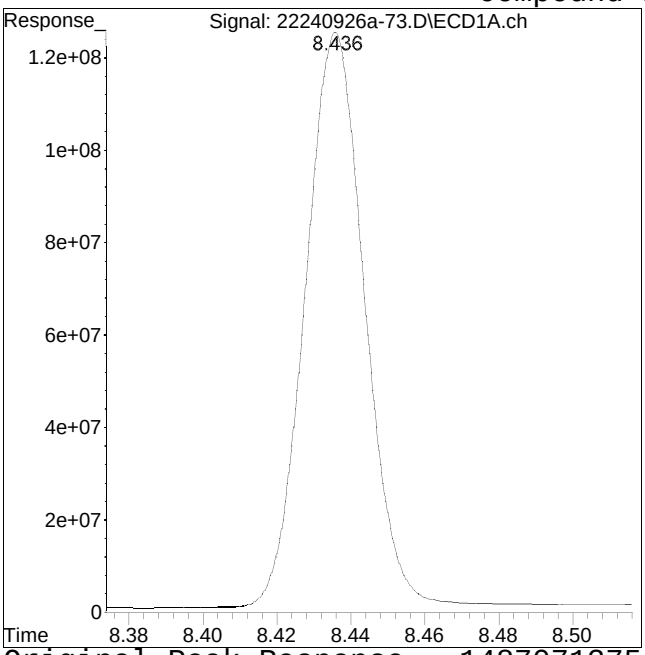
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

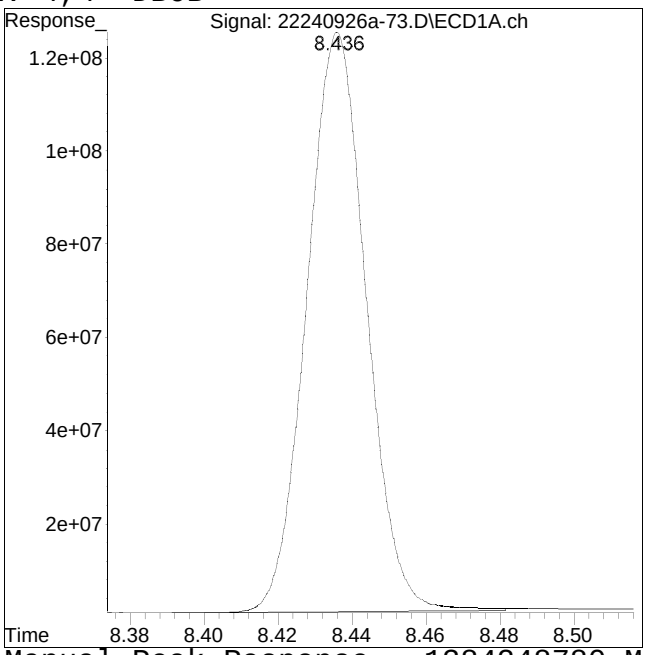


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-73.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:13 Instrument : Pest22
Sample : L2453720-02,42,, p Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



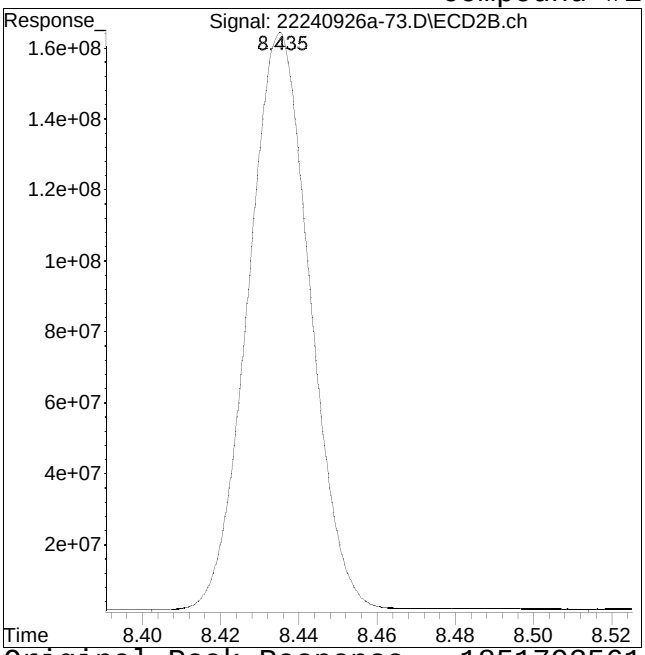


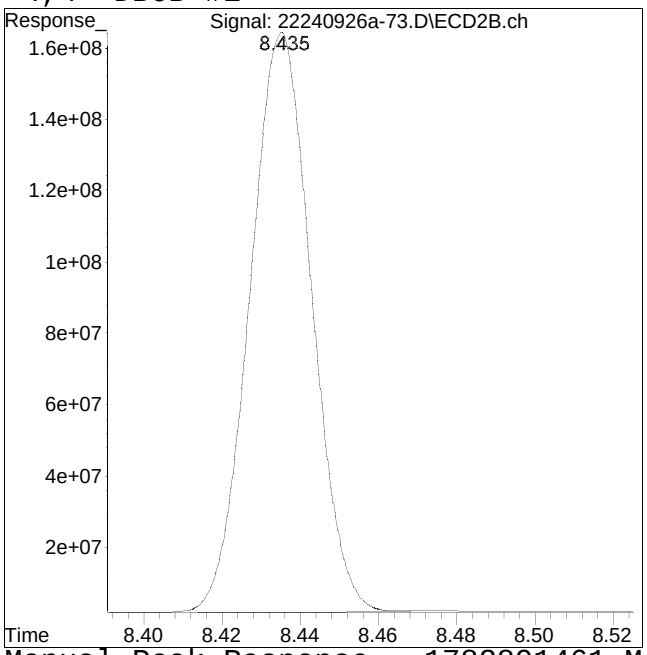
Original Peak Response = 1487071375 Manual Peak Response = 1384248780 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-73.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:13 Instrument : Pest22
Sample : L2453720-02,42,, p Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



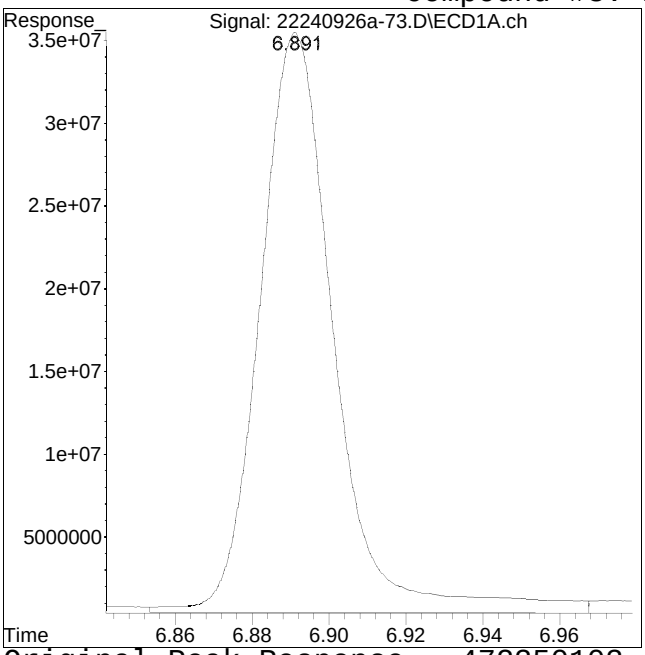


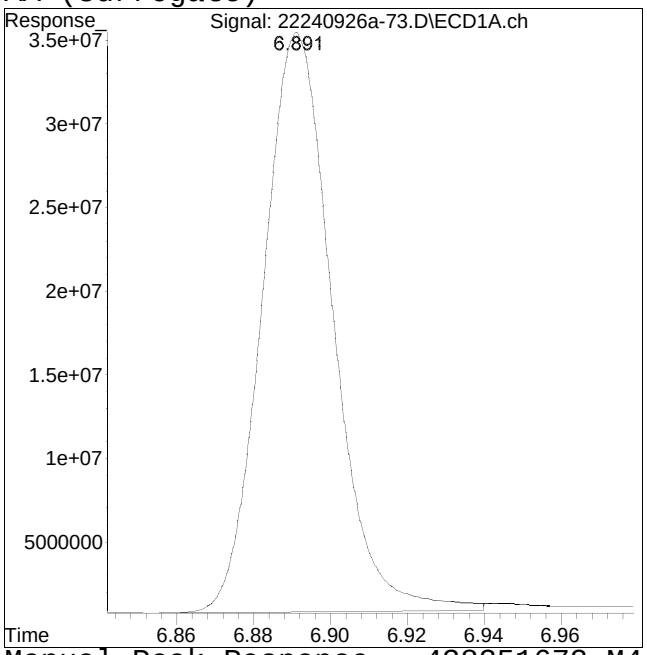
Original Peak Response = 1851793561 Manual Peak Response = 1782891461 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-73.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:13 Instrument : Pest22
Sample : L2453720-02,42,, p Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



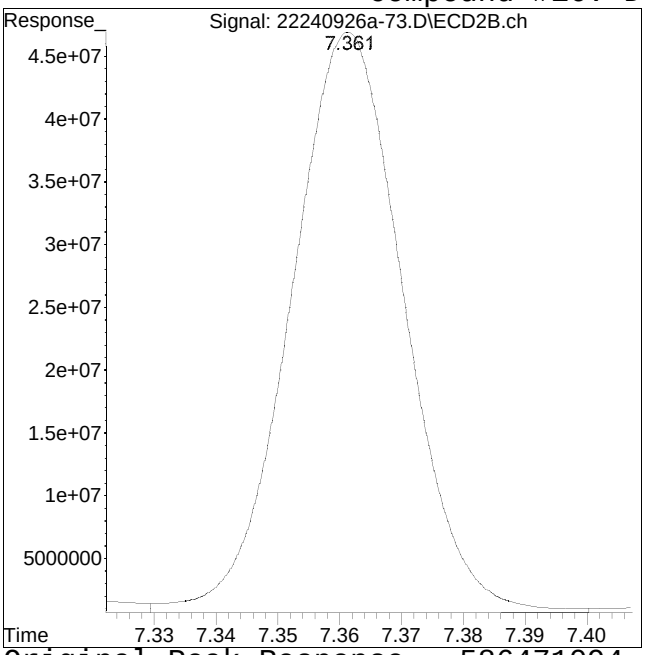


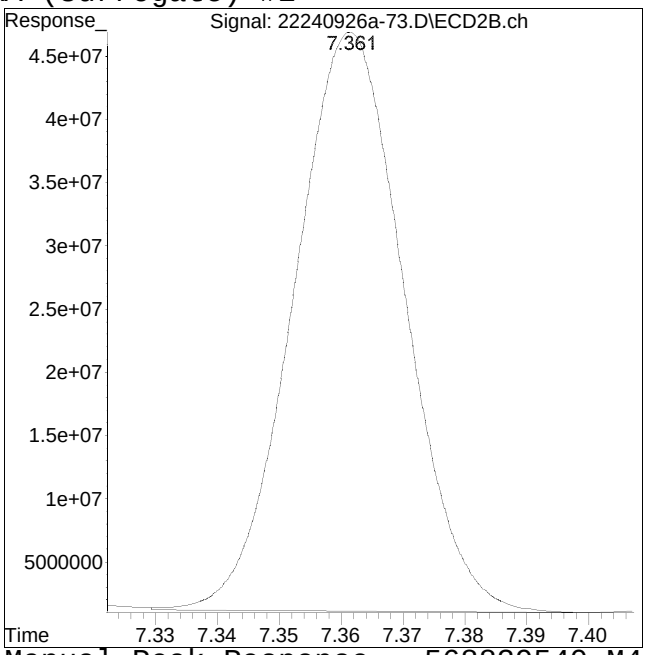
Original Peak Response = 472350103 Manual Peak Response = 438351672 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-73.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:13 Instrument : Pest22
Sample : L2453720-02,42,, p Quant Date : 9/27/2024 8:51 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 586471094 Manual Peak Response = 568839540 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-76.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 07:09
Operator : pest22:akm
Sample : L2453720-01,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 76 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:14 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.435	1380.1E6	1769.5E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery = 105.25%		
	Standard Area 1 : #2 = 1679118582				Recovery = 105.38%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.891	7.361	418.1E6	539.2E6	0.412M4	0.402M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	82.40%	80.40%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

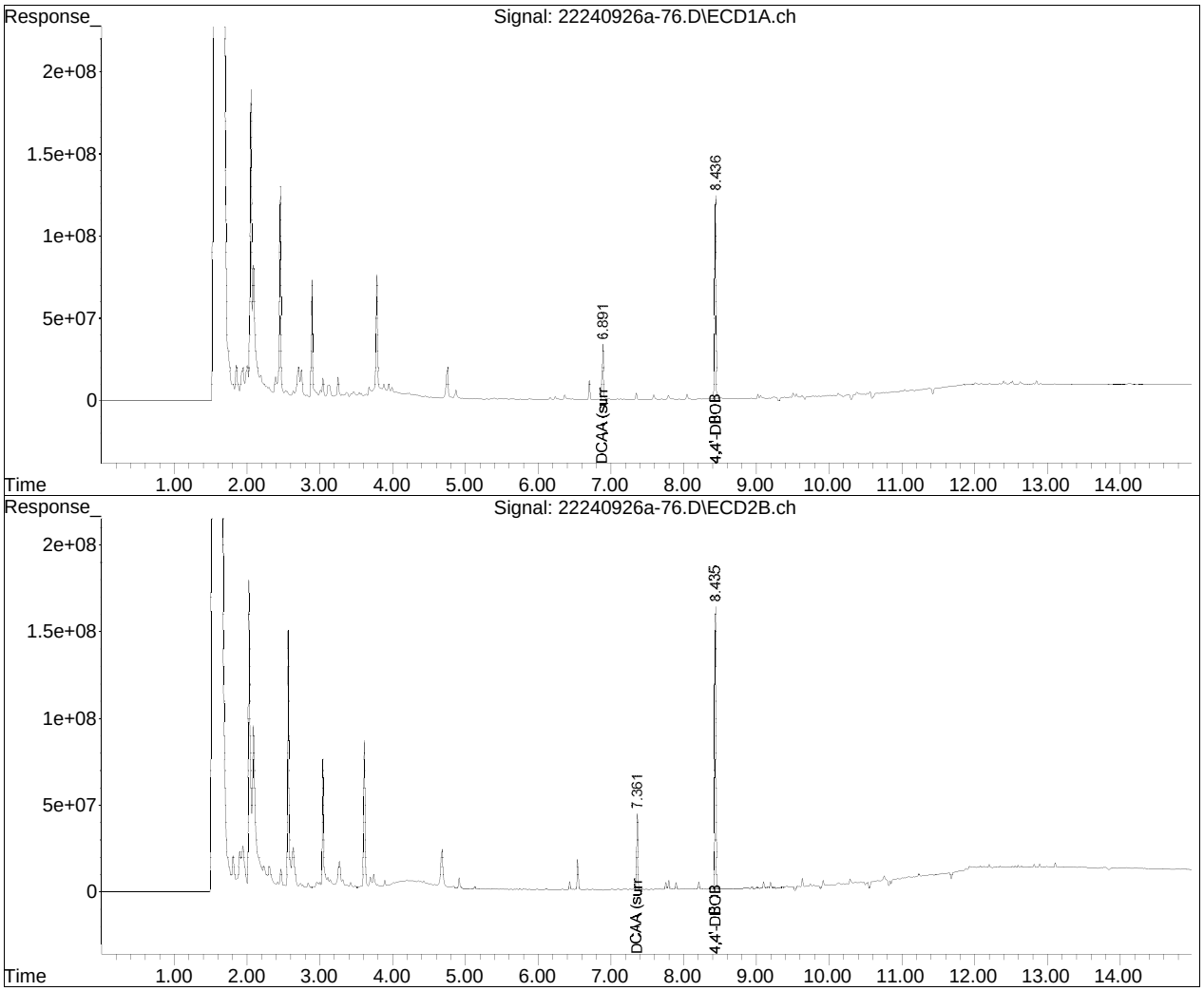
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-76.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 07:09
Operator : pest22:akm
Sample : L2453720-01,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 76 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:14 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

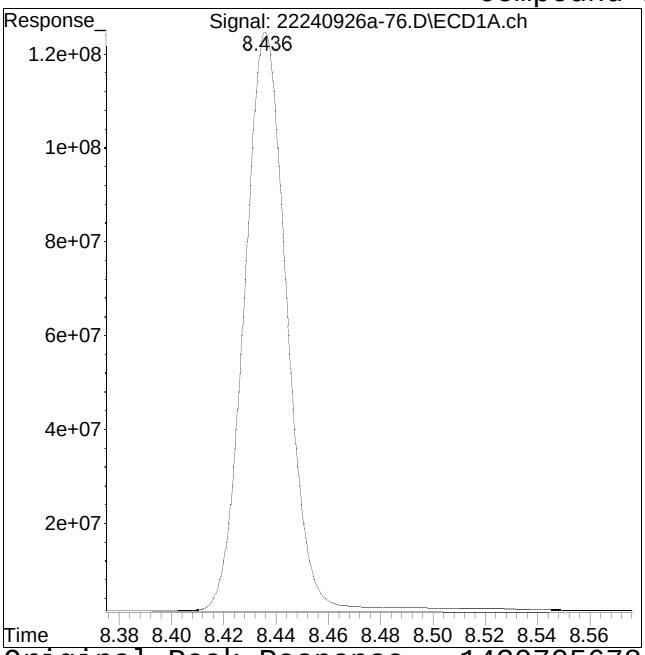
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

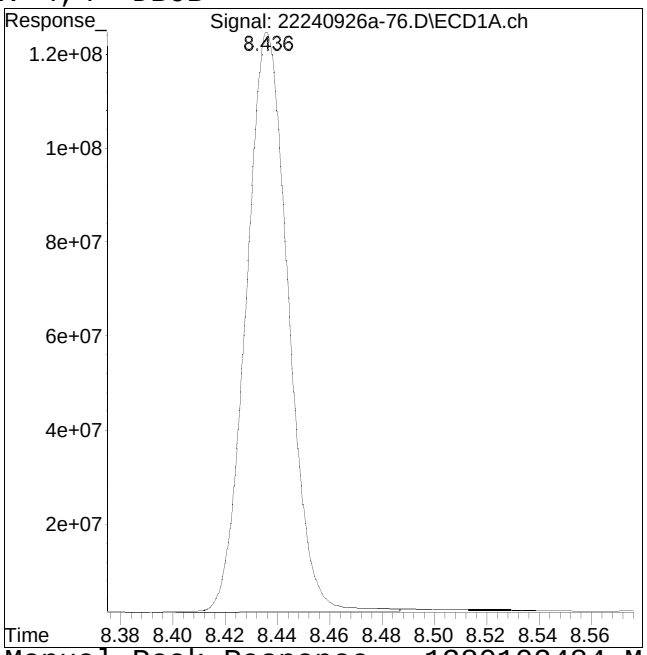


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-76.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:09 Instrument : Pest22
Sample : L2453720-01,42,, Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



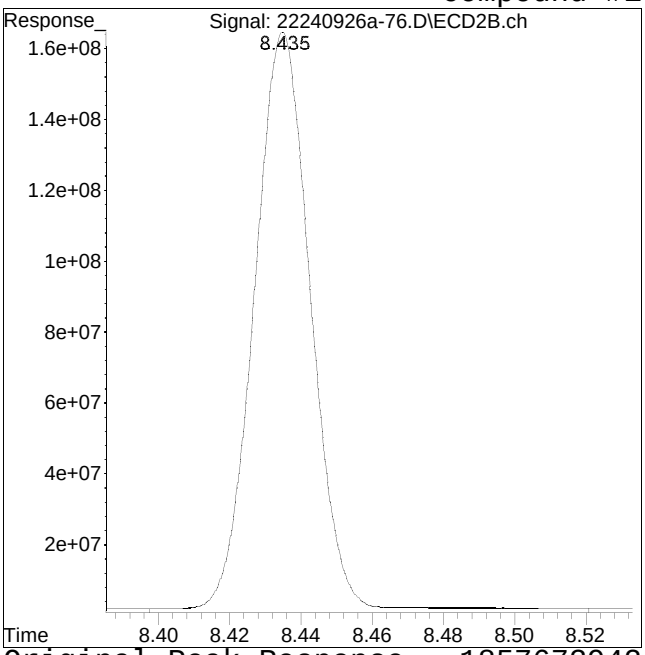


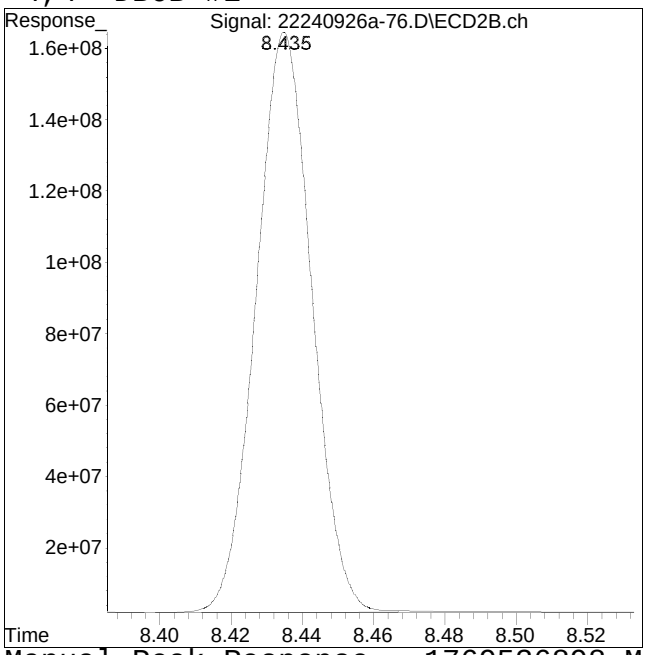
Original Peak Response = 1430705678 Manual Peak Response = 1380102484 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-76.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:09 Instrument : Pest22
Sample : L2453720-01,42,, Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



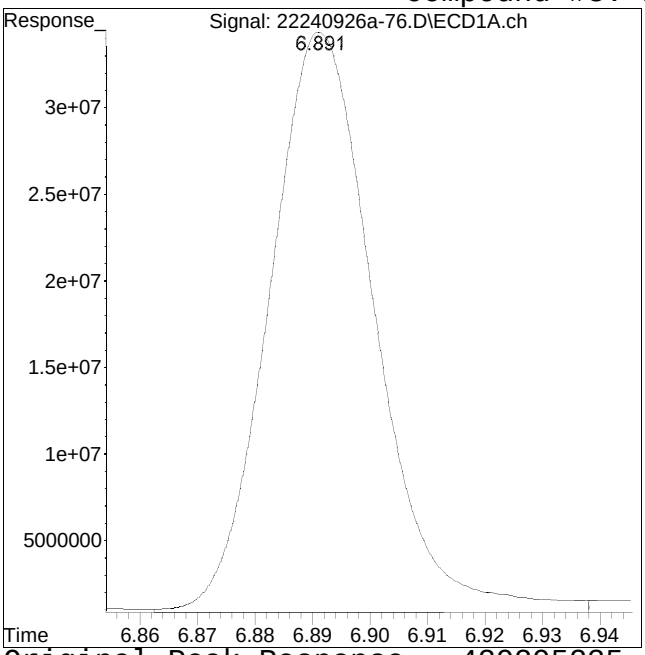


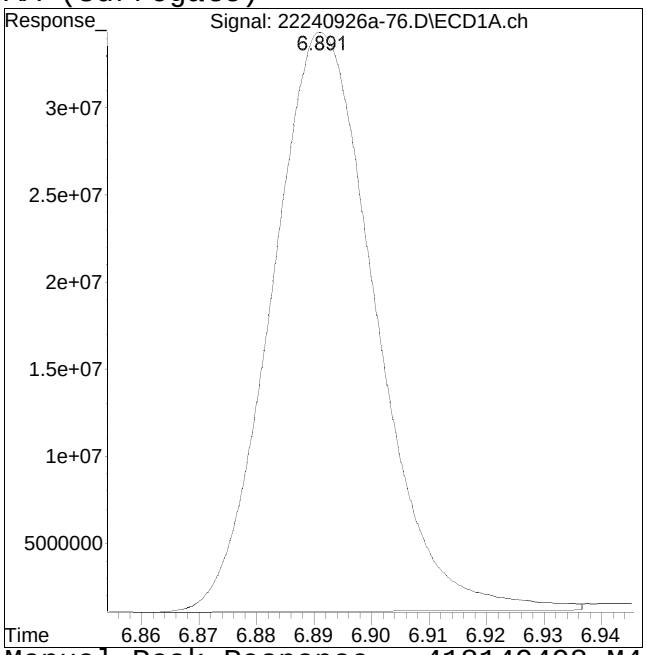
Original Peak Response = 1857673942 Manual Peak Response = 1769536898 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-76.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:09 Instrument : Pest22
Sample : L2453720-01,42,, Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



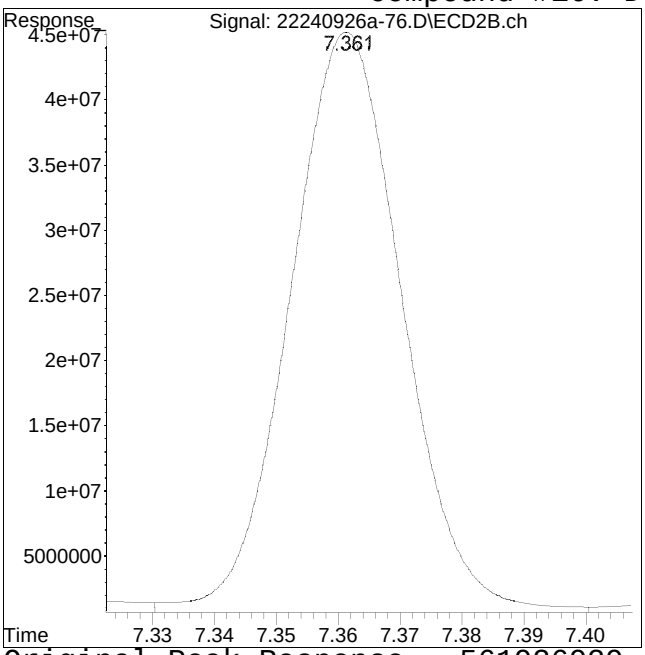


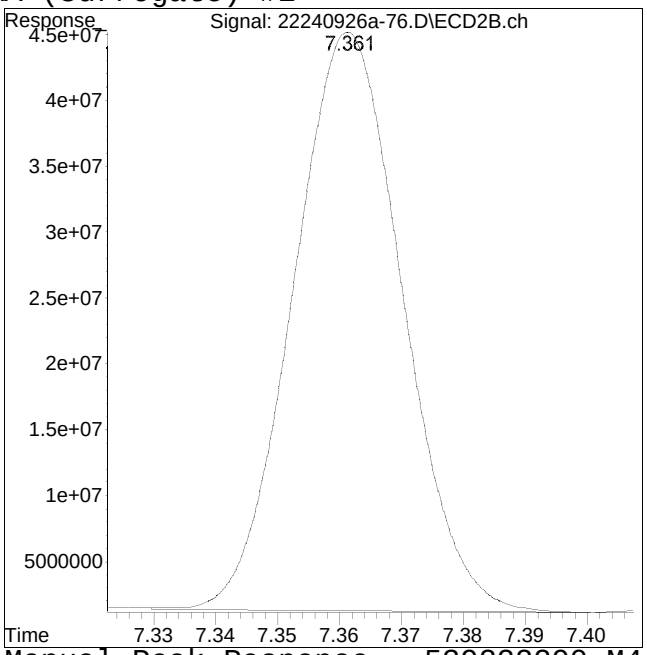
Original Peak Response = 429295235 Manual Peak Response = 418149498 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-76.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:09 Instrument : Pest22
Sample : L2453720-01,42,, Quant Date : 9/27/2024 8:51 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 561926929 Manual Peak Response = 539222290 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-77.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 07:27
Operator : pest22:akm
Sample : L2453720-03,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:15 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.435	8.435	1256.4E6	1633.6E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery =	95.81%	
	Standard Area 1 : #2 = 1679118582				Recovery =	97.29%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.891	7.361	414.7E6	524.0E6	0.448M4	0.423M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	89.60%	84.60%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

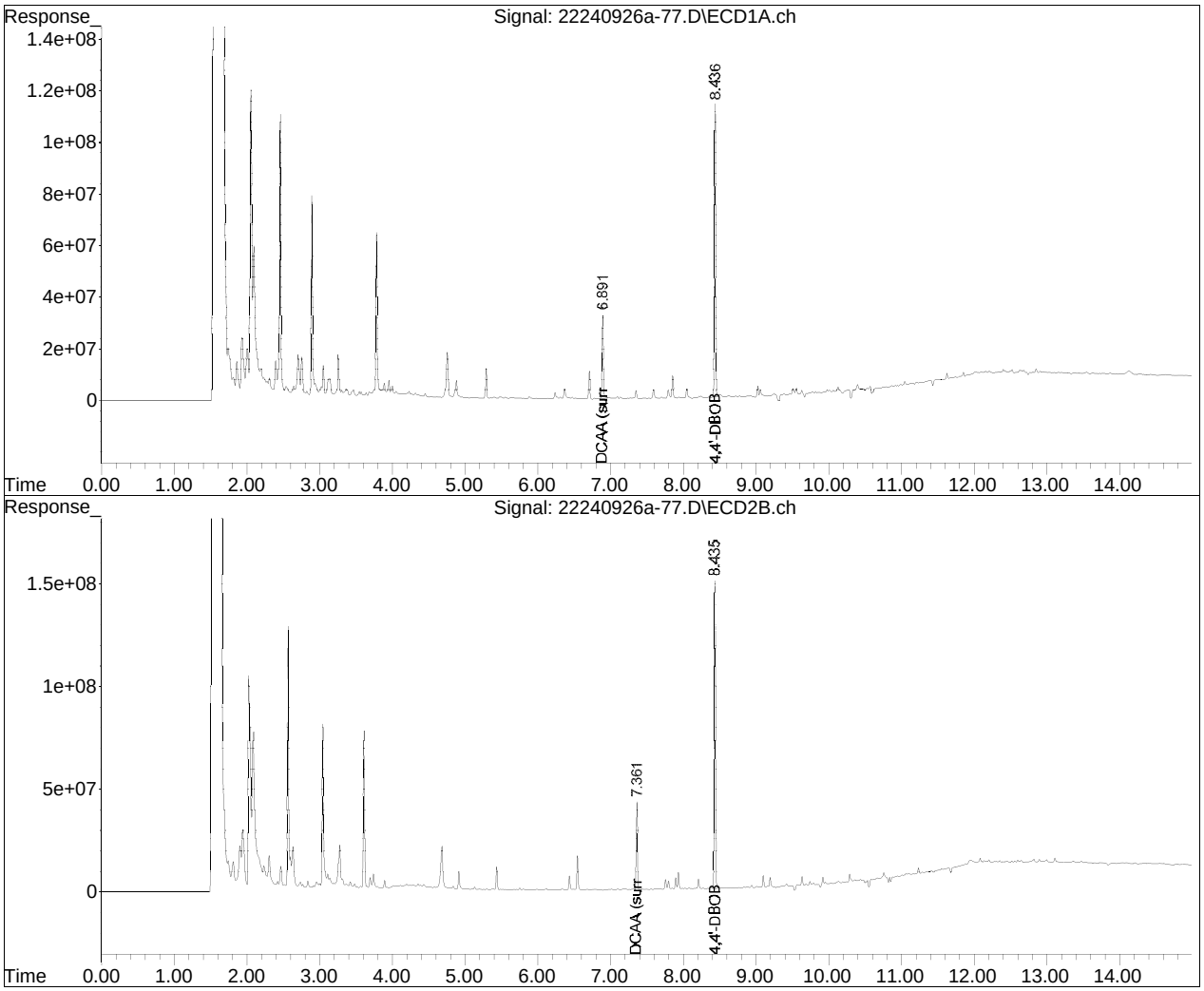
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-77.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 07:27
Operator : pest22:akm
Sample : L2453720-03,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 77 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:15 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

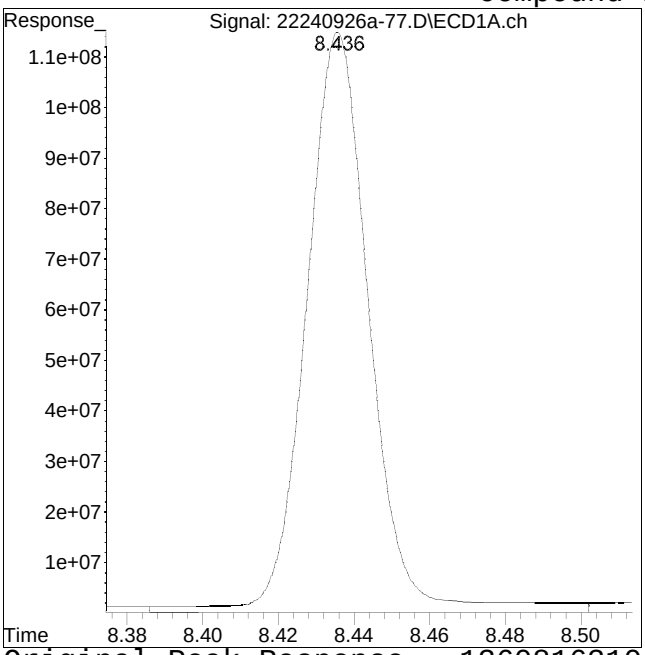
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

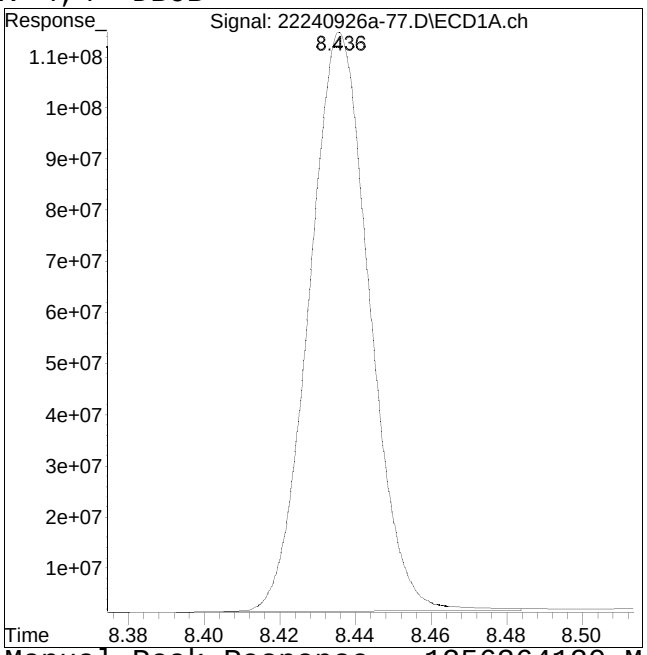


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-77.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:27 Instrument : Pest22
Sample : L2453720-03,42,, Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



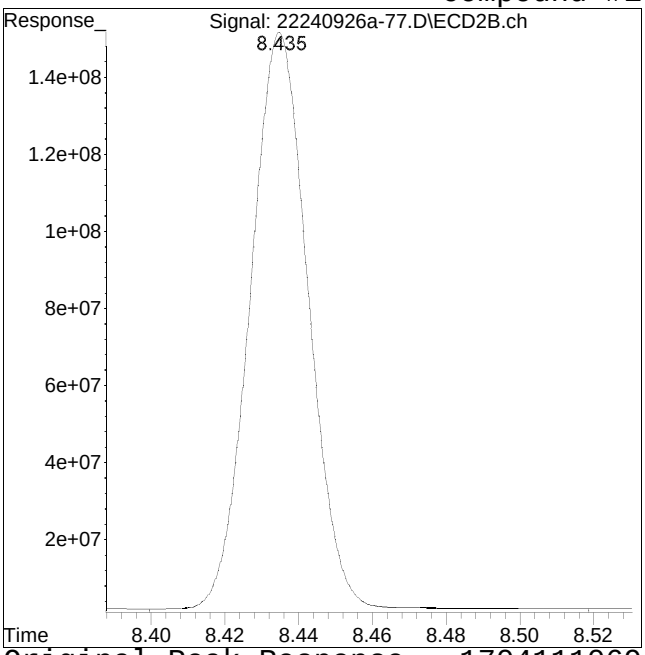


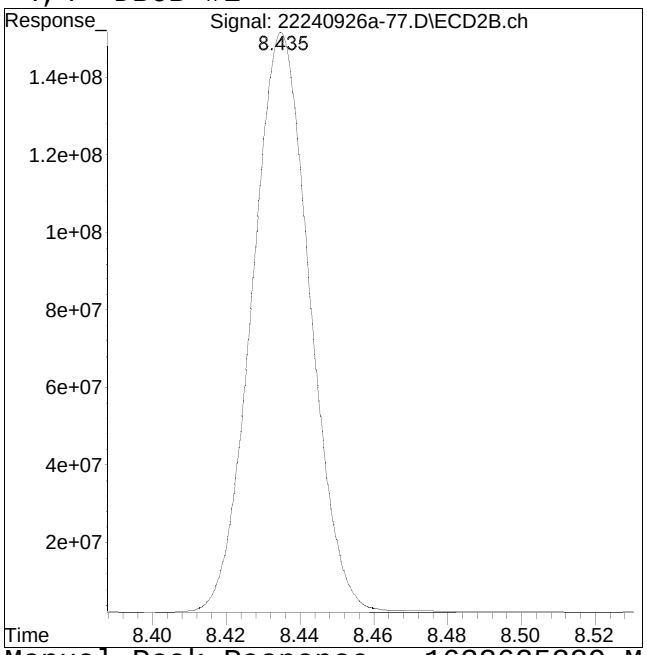
Original Peak Response = 1360816310 Manual Peak Response = 1256364120 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-77.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:27 Instrument : Pest22
Sample : L2453720-03,42,, Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



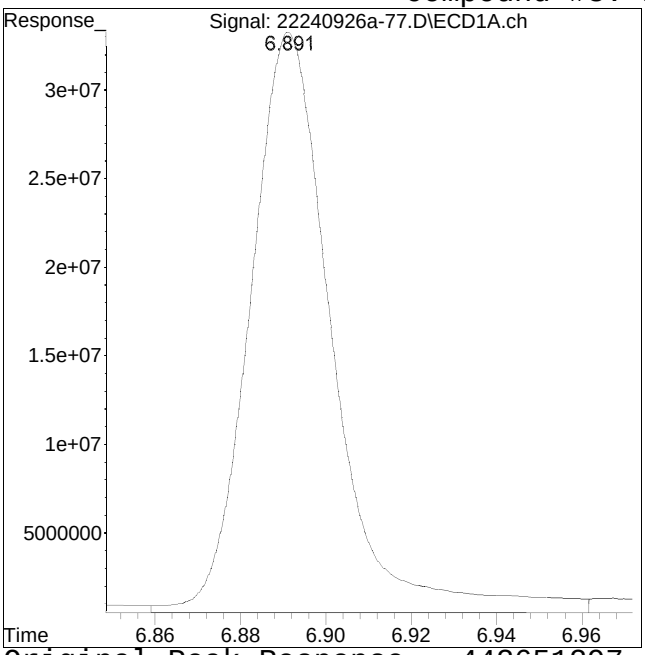


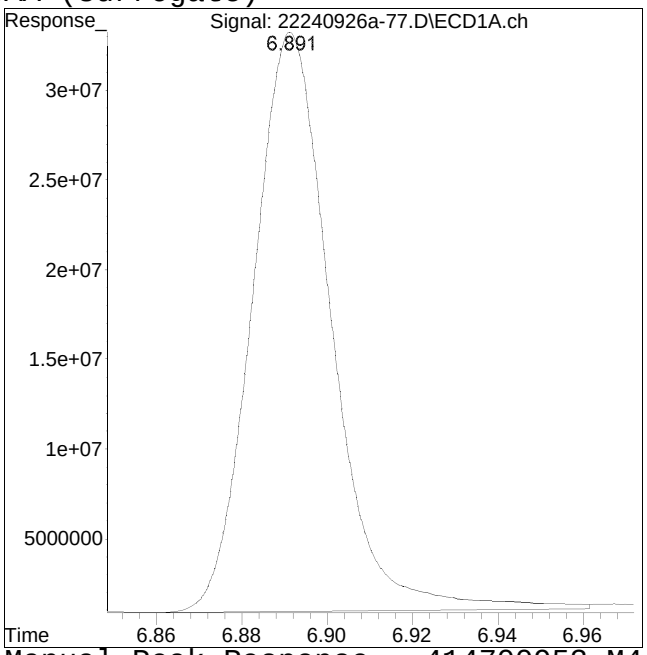
Original Peak Response = 1704111069 Manual Peak Response = 1633625329 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-77.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:27 Instrument : Pest22
Sample : L2453720-03,42,, Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



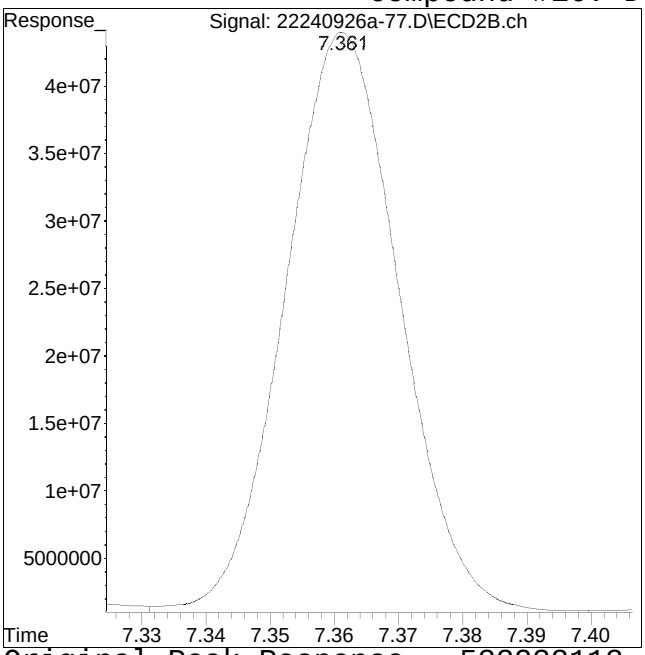


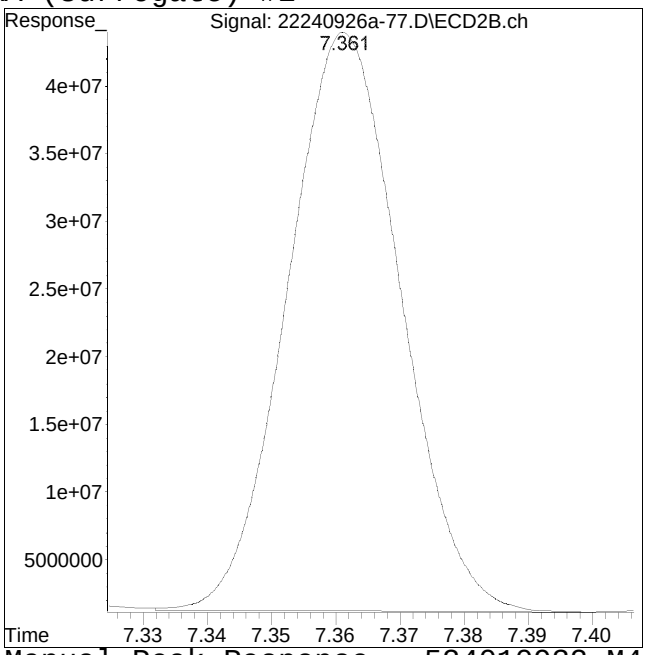
Original Peak Response = 442651297 Manual Peak Response = 414700953 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-77.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:27 Instrument : Pest22
Sample : L2453720-03,42,, Quant Date : 9/27/2024 8:51 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 533232113 Manual Peak Response = 524010932 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-78.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 07:46
Operator : pest22:akm
Sample : L2453720-04,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:17 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.435	1205.3E6	1565.3E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery =	91.92%	
	Standard Area 1 : #2 = 1679118582				Recovery =	93.22%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.891	7.361	410.4E6	527.2E6	0.462M4	0.444M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	92.40%	88.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

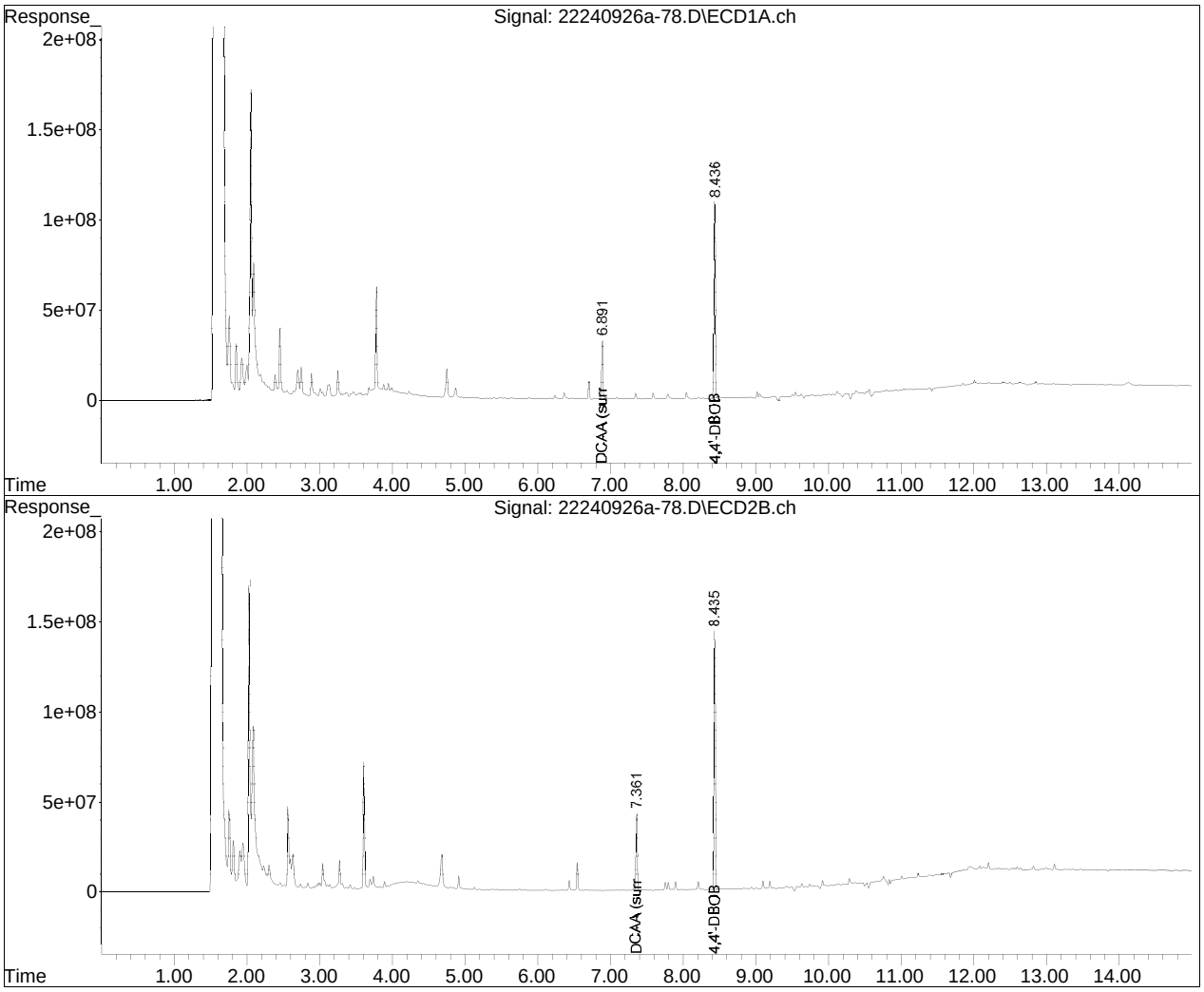
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-78.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 07:46
Operator : pest22:akm
Sample : L2453720-04,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 78 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:17 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

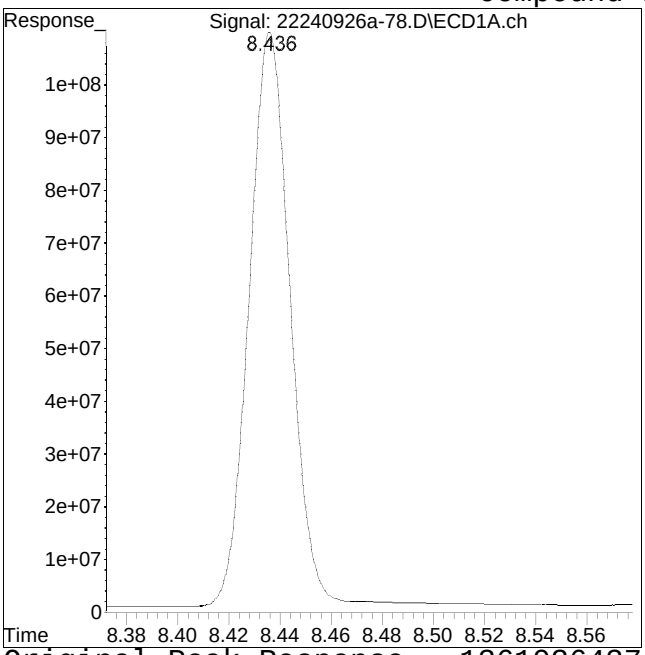
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

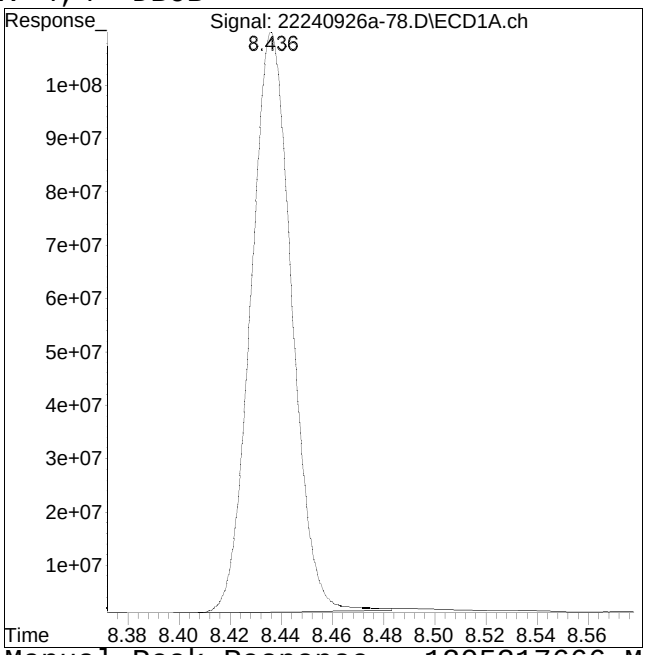


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-78.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:46 Instrument : Pest22
Sample : L2453720-04,42,, Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



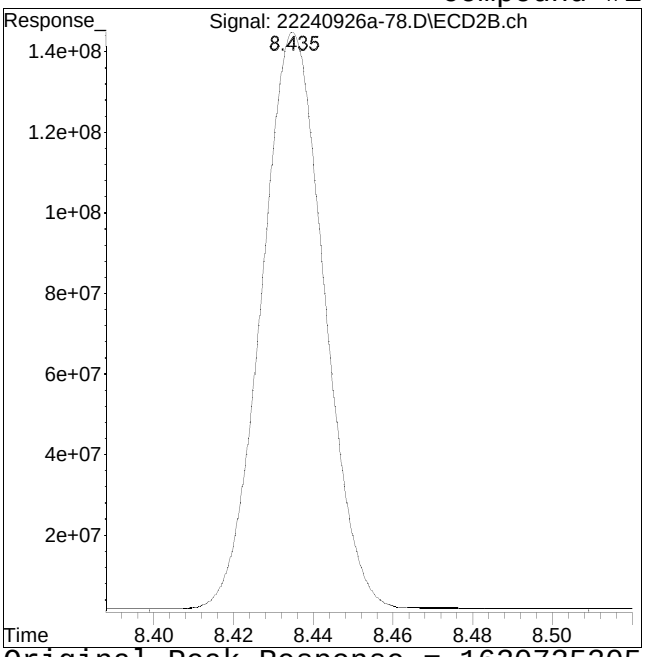


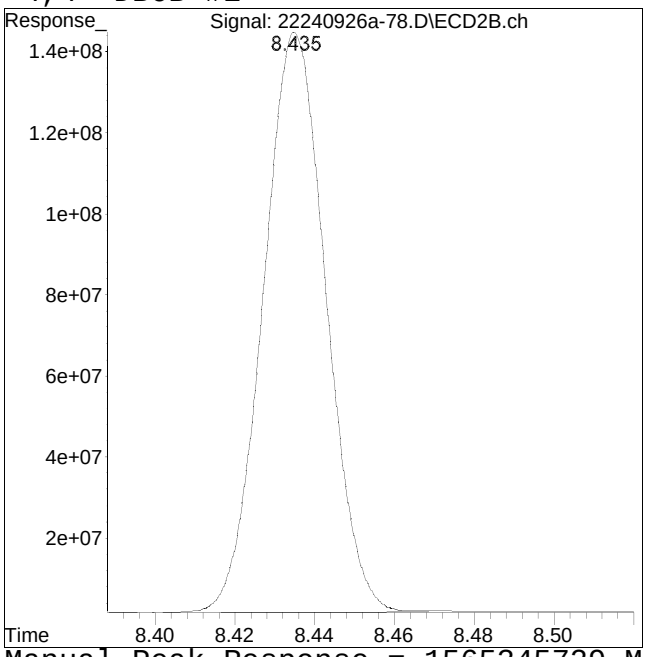
Original Peak Response = 1361036437 Manual Peak Response = 1205317666 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-78.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:46 Instrument : Pest22
Sample : L2453720-04,42,, Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



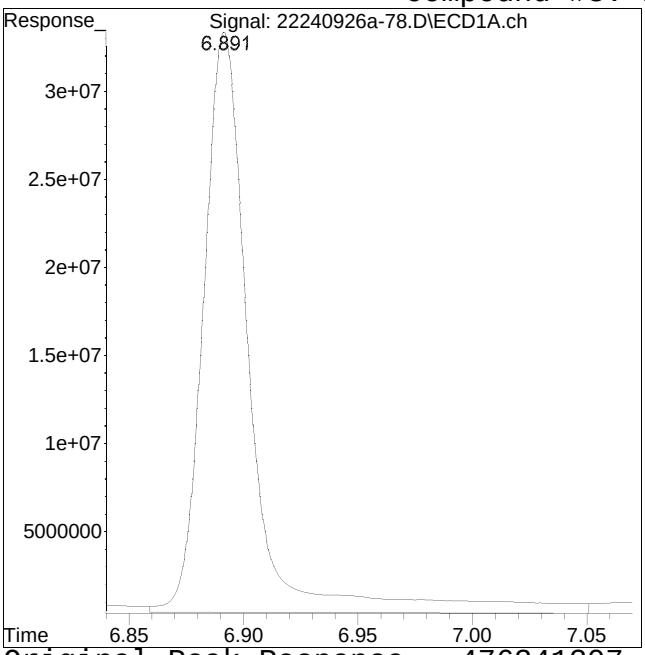


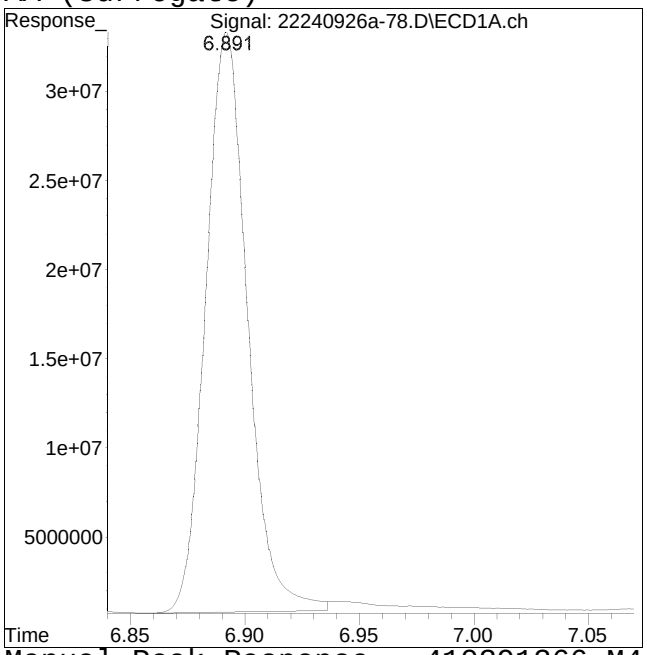
Original Peak Response = 1630735305 Manual Peak Response = 1565345729 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-78.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:46 Instrument : Pest22
Sample : L2453720-04,42,, Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



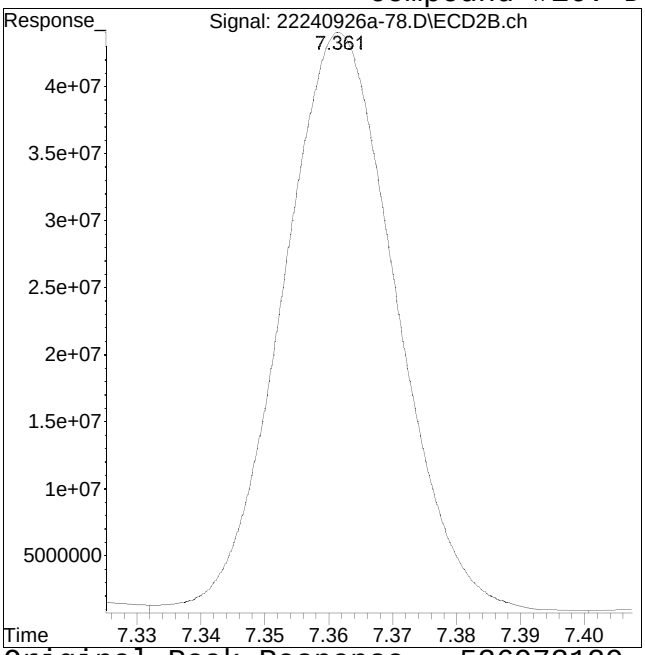


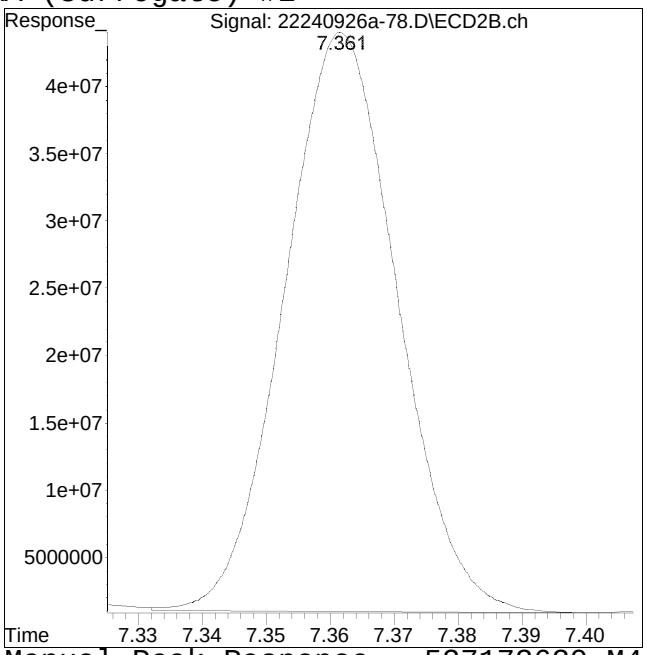
Original Peak Response = 476341307 Manual Peak Response = 410391366 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-78.D Operator : pest22:akm
Date Inj'd : 9/27/2024 7:46 Instrument : Pest22
Sample : L2453720-04,42,, Quant Date : 9/27/2024 8:51 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 536973129 Manual Peak Response = 527173620 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-79.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 08:04
Operator : pest22:akm
Sample : L2453720-06,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:18 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.435	1278.4E6	1645.4E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery =	97.50%	
	Standard Area 1 : #2 = 1679118582				Recovery =	97.99%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.892	7.362	411.4E6	520.6E6	0.437M4	0.417M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	87.40%	83.40%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

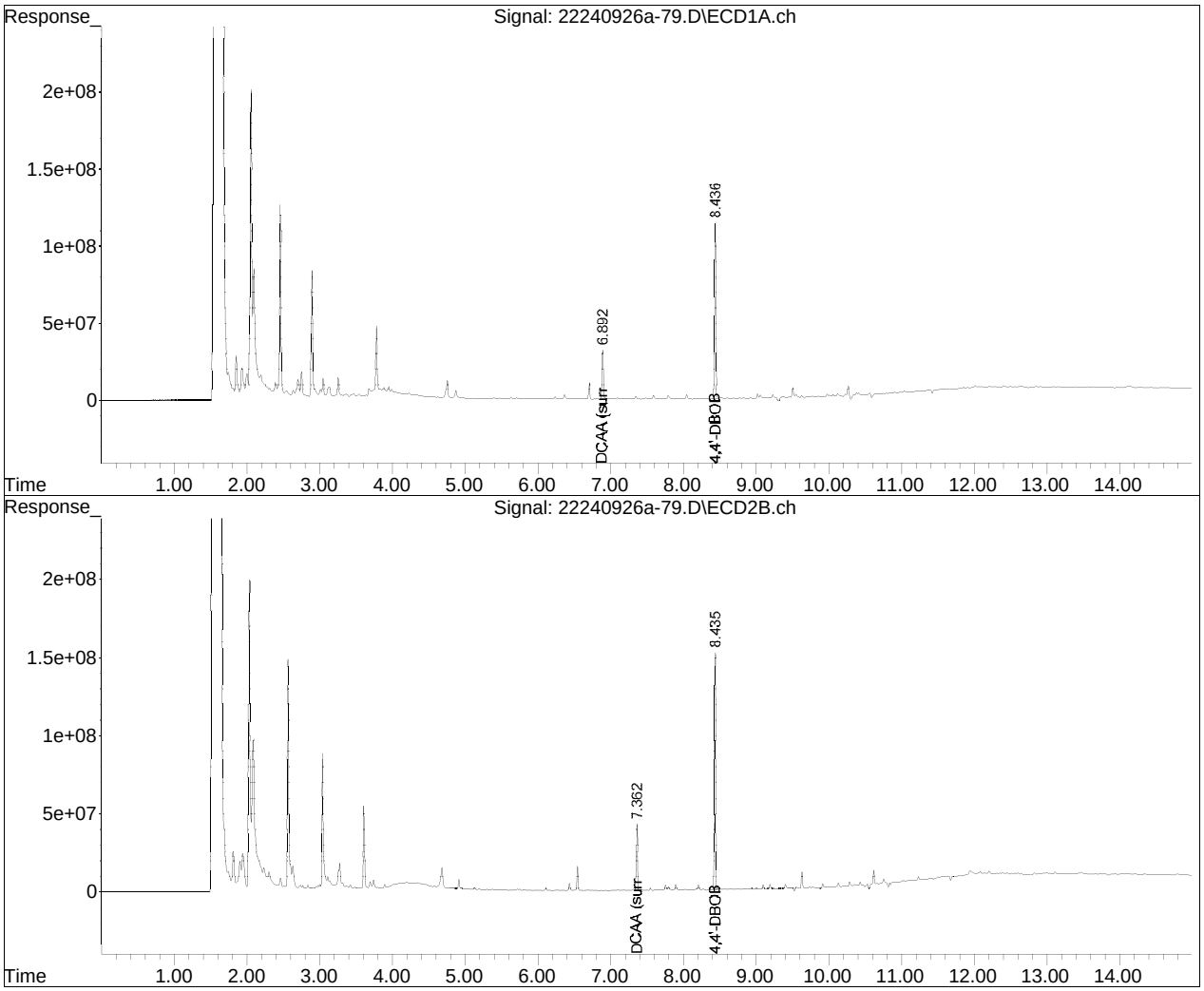
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-79.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 08:04
Operator : pest22:akm
Sample : L2453720-06,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 79 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:18 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

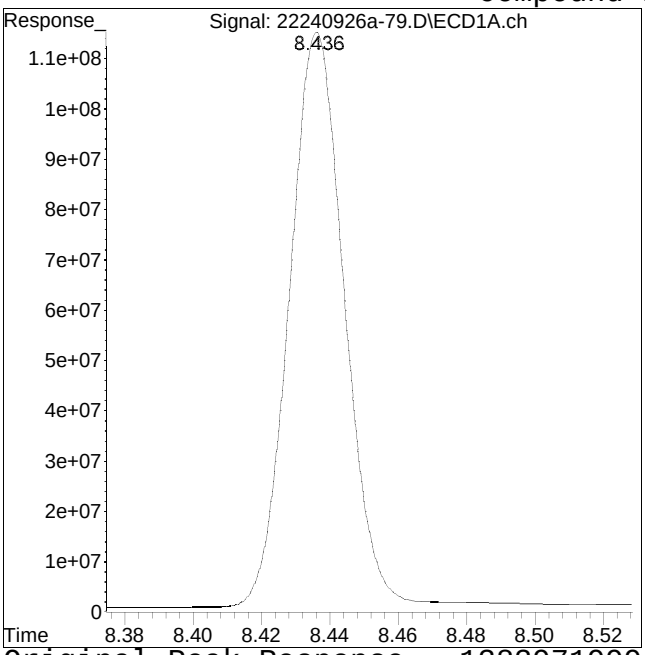
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

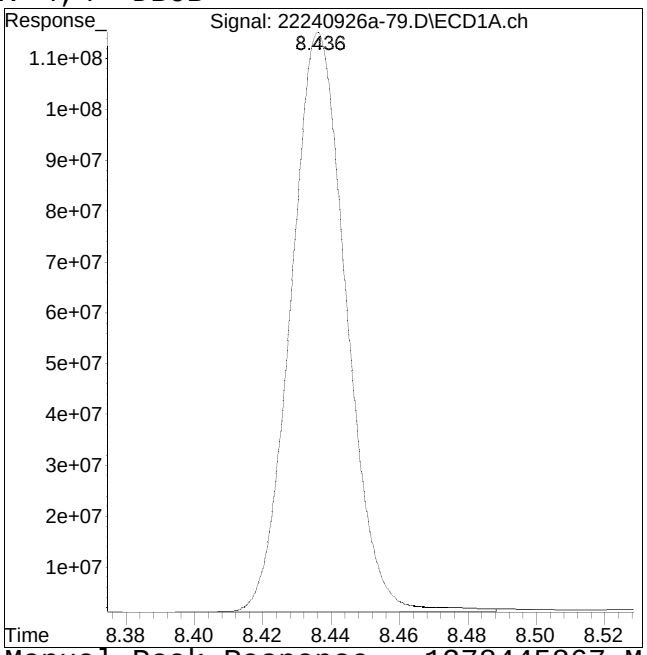


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-79.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:04 Instrument : Pest22
Sample : L2453720-06,42,, Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



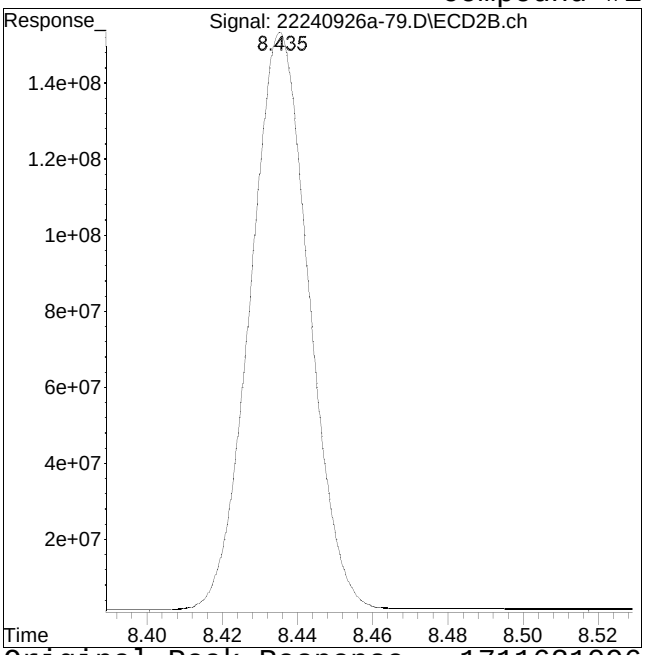


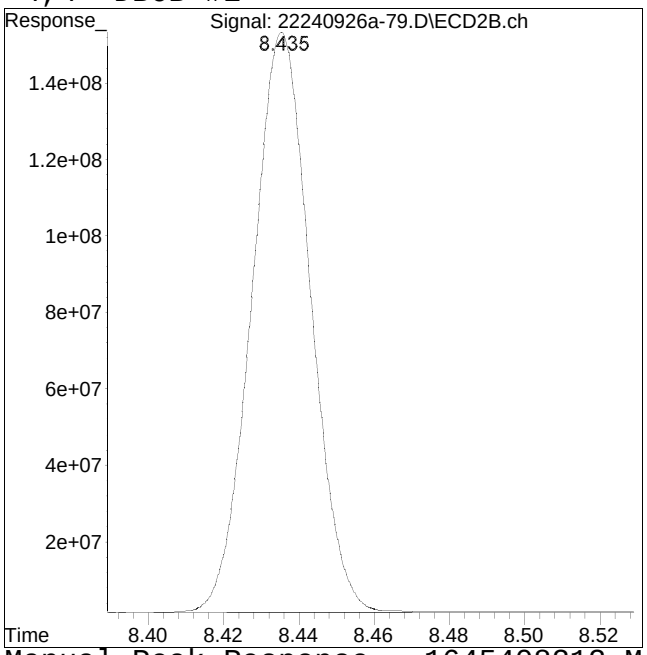
Original Peak Response = 1383971999 Manual Peak Response = 1278445867 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-79.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:04 Instrument : Pest22
Sample : L2453720-06,42,, Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



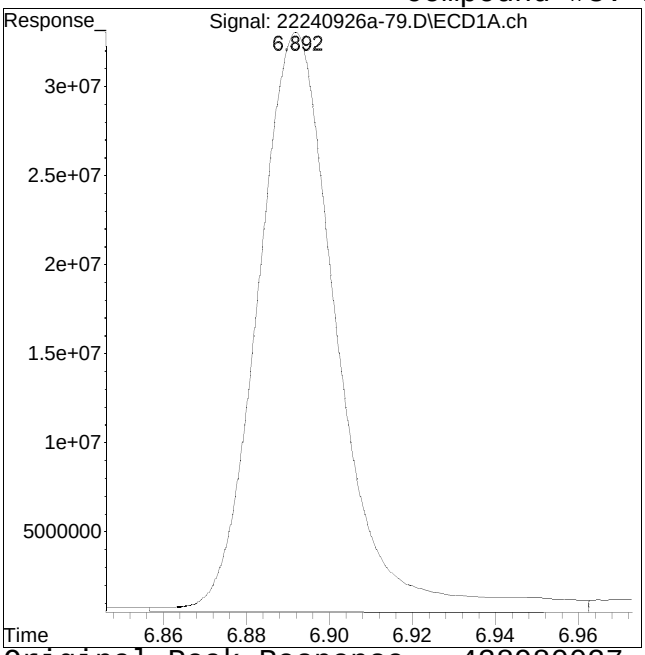


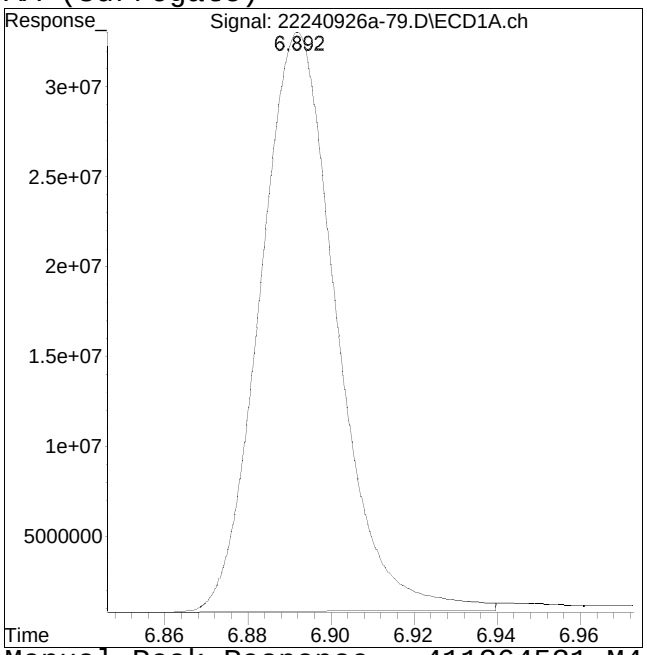
Original Peak Response = 1711621096 Manual Peak Response = 1645408212 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-79.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:04 Instrument : Pest22
Sample : L2453720-06,42,, Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



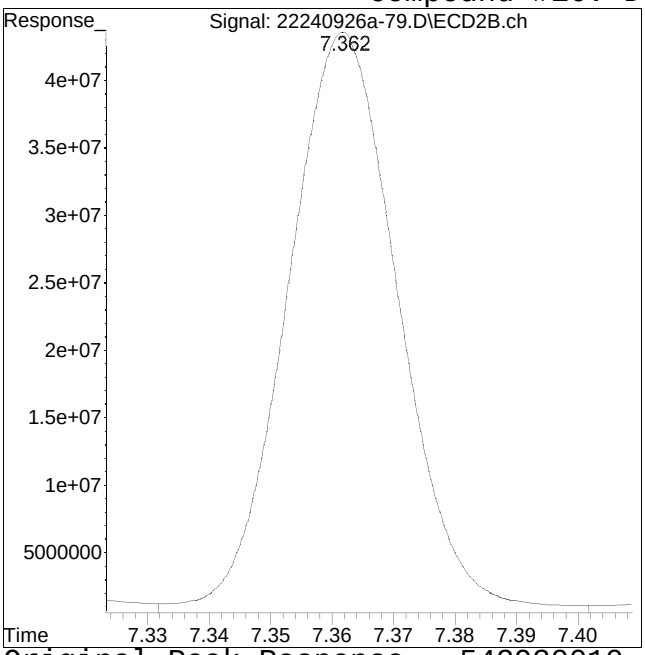


Original Peak Response = 438980027 Manual Peak Response = 411364531 M4
M4 = Poor automated baseline construction.

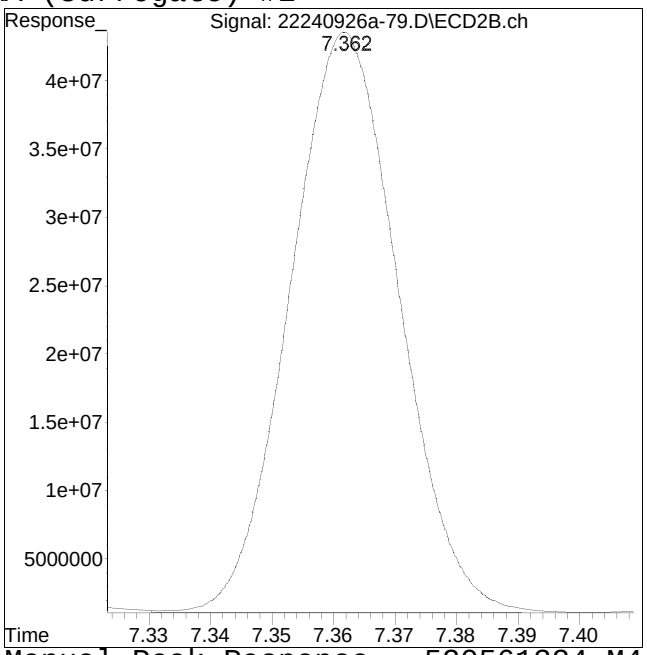
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-79.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:04 Instrument : Pest22
Sample : L2453720-06,42,, Quant Date : 9/27/2024 8:51 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 542930010



Manual Peak Response = 520561324 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-81.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 08:42
Operator : pest22:akm
Sample : L2453720-07,42,,
Misc : wg1976540,WG1975468,ical21511 (Sig #1); wg1976540,WG1976232,ical21511 (Sig #2)
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:05:33 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-80.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.436	1253.3E6	1617.5E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1448720474				Recovery =	86.51%	
	Standard Area 1 : #2 = 1831961021				Recovery =	88.29%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.892	7.362	405.9E6	523.6E6	0.440M4	0.427M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	88.00%	85.40%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

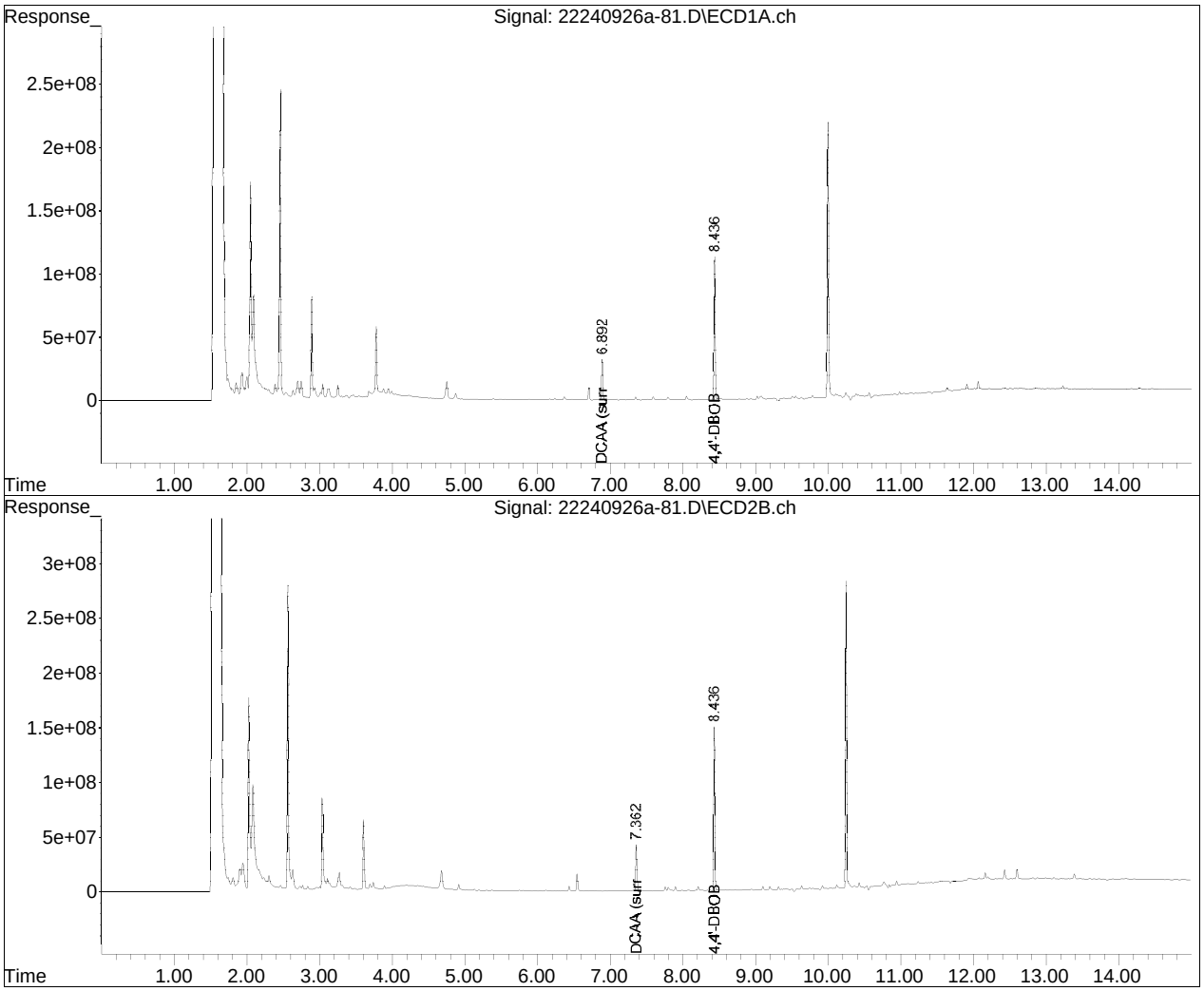
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-80.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-81.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 08:42
Operator : pest22:akm
Sample : L2453720-07,42,,
Misc : wg1976540,WG1975468,ical21511 (Sig #1); wg1976540,WG1976232,ical21
ALS Vial : 81 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:05:33 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

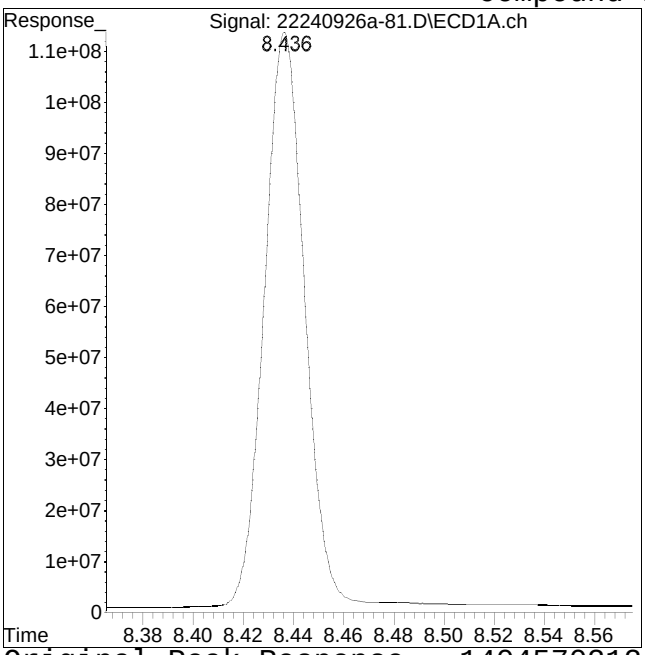
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

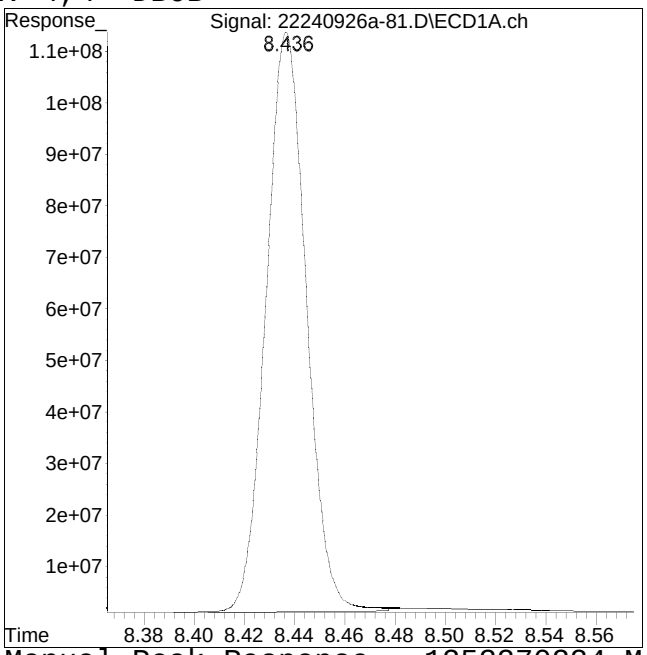


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-81.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:42 Instrument : Pest22
Sample : L2453720-07,42,, Quant Date : 9/27/2024 11:05 am

Compound #1: 4,4'-DBOB



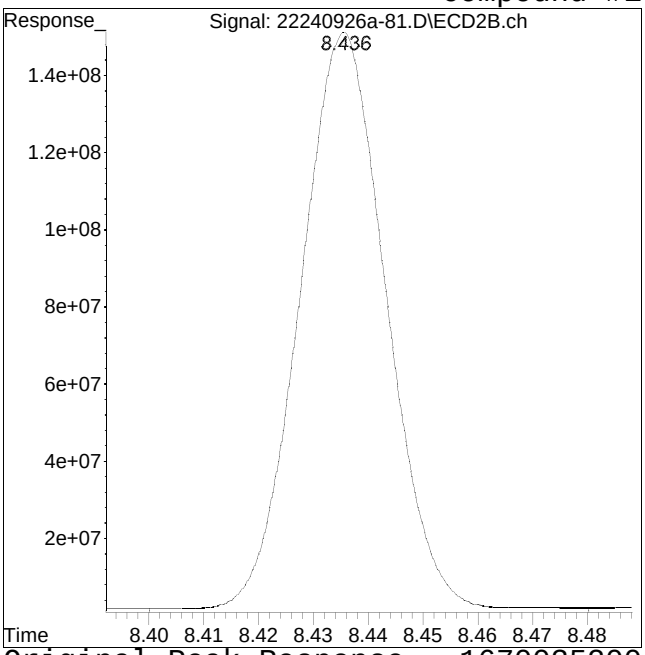


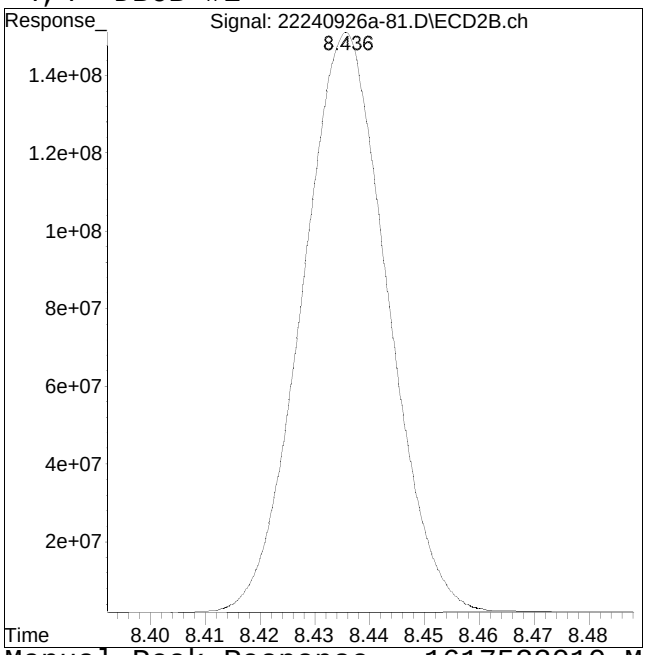
Original Peak Response = 1404570212 Manual Peak Response = 1253270224 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-81.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:42 Instrument : Pest22
Sample : L2453720-07,42,, Quant Date : 9/27/2024 11:05 am

Compound #14: 4,4'-DBOB #2



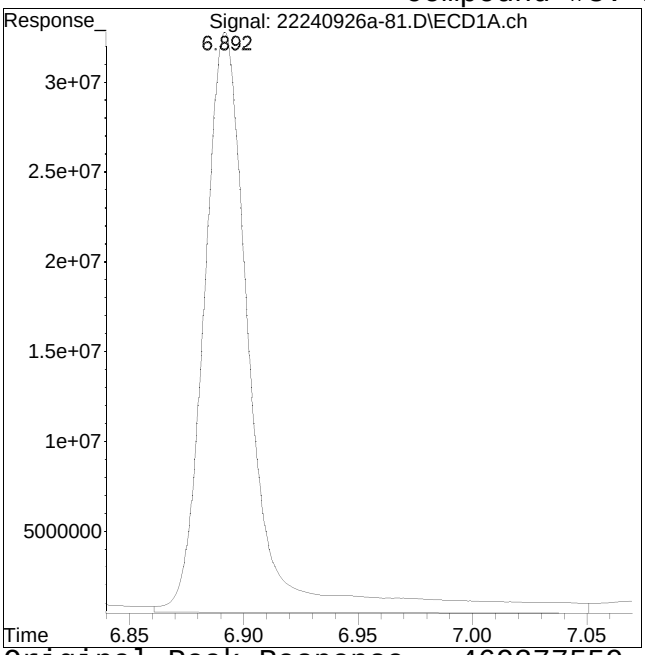


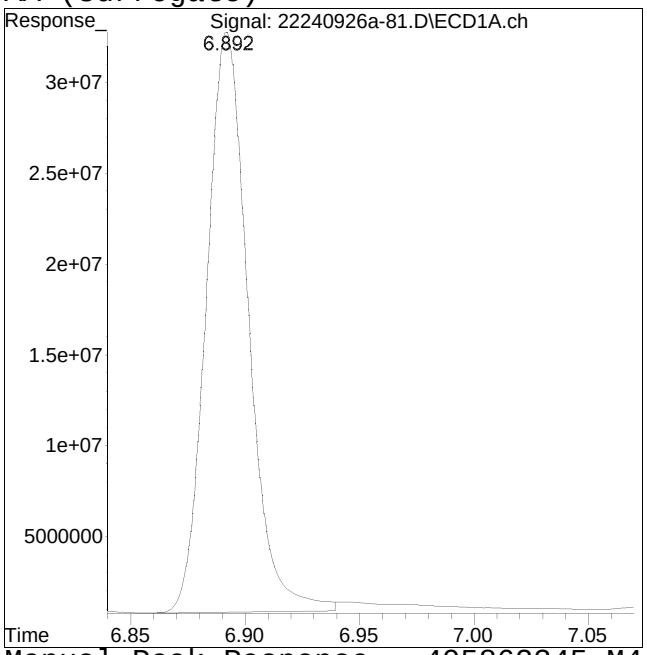
Original Peak Response = 1670035200 Manual Peak Response = 1617523010 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-81.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:42 Instrument : Pest22
Sample : L2453720-07,42,, Quant Date : 9/27/2024 11:05 am

Compound #3: DCAA (surrogate)



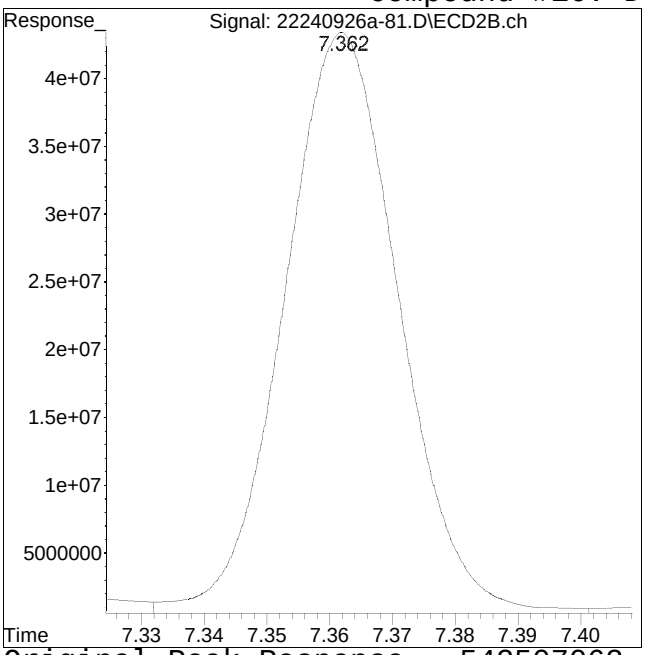


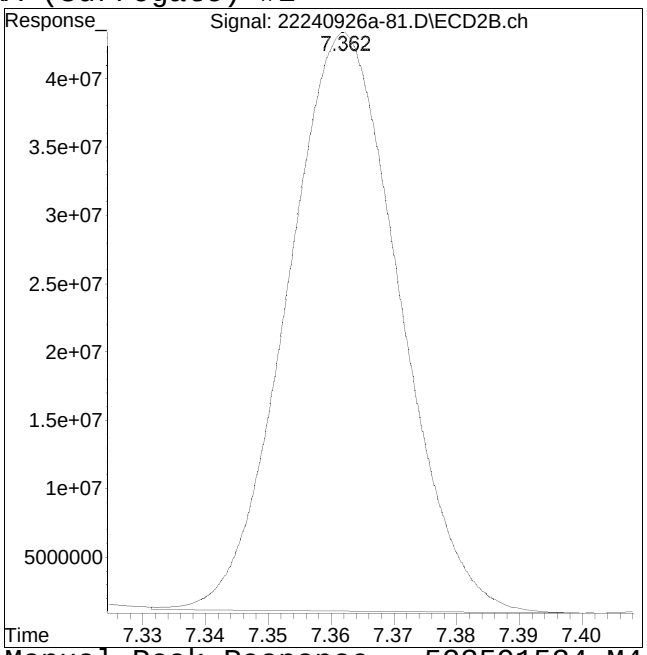
Original Peak Response = 469377559 Manual Peak Response = 405862345 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-81.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:42 Instrument : Pest22
Sample : L2453720-07,42,, Quant Date : 9/27/2024 11:05 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 542507062 Manual Peak Response = 523591534 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-82.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 09:00
Operator : pest22:akm
Sample : L2453720-08,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:05:34 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-80.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.436	1296.9E6	1668.4E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1448720474				Recovery =	89.52%	
	Standard Area 1 : #2 = 1831961021				Recovery =	91.07%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.892	7.362	419.8E6	536.3E6	0.440M4	0.424M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	88.00%	84.80%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

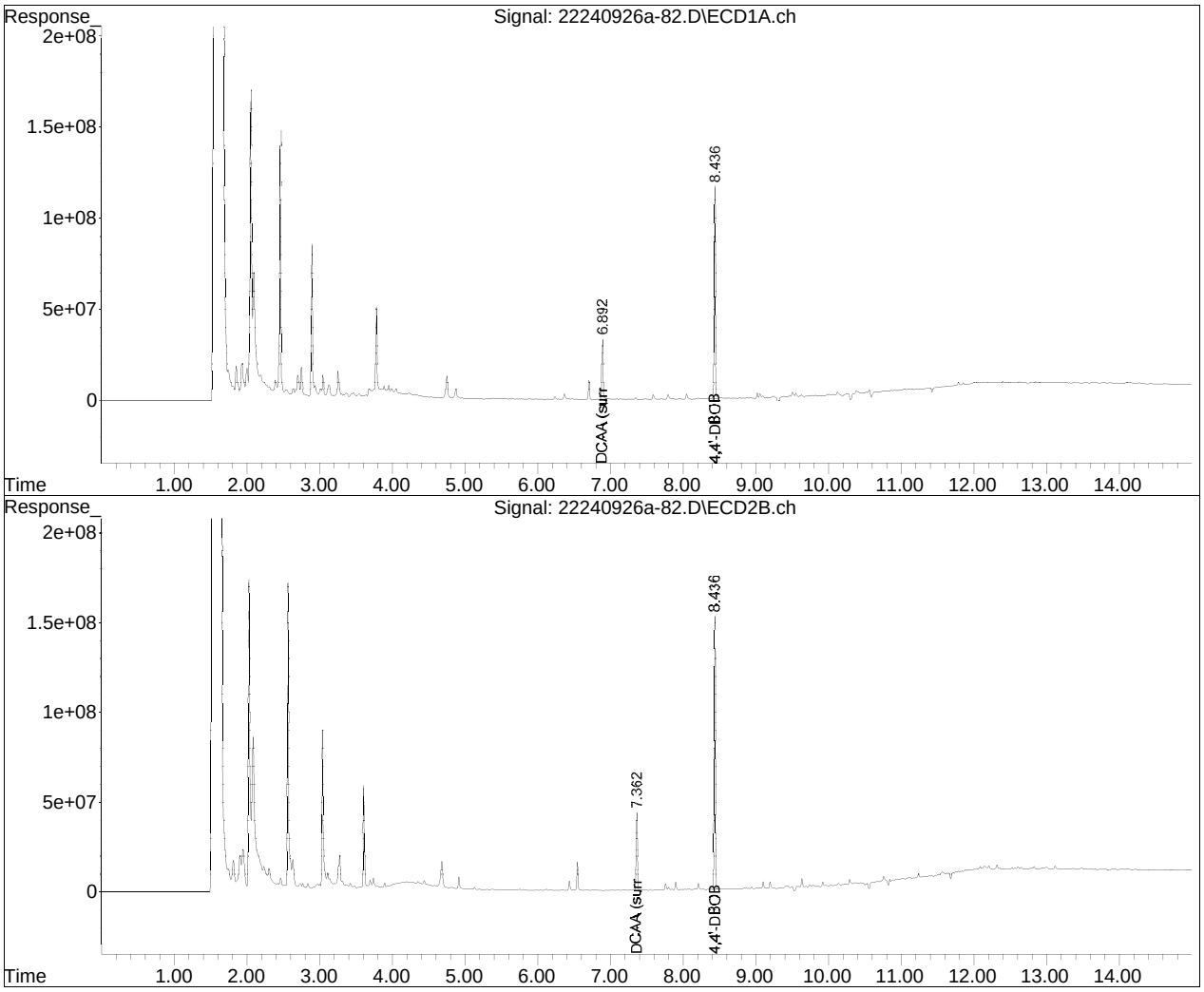
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-80.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-82.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 09:00
Operator : pest22:akm
Sample : L2453720-08,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 82 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:05:34 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

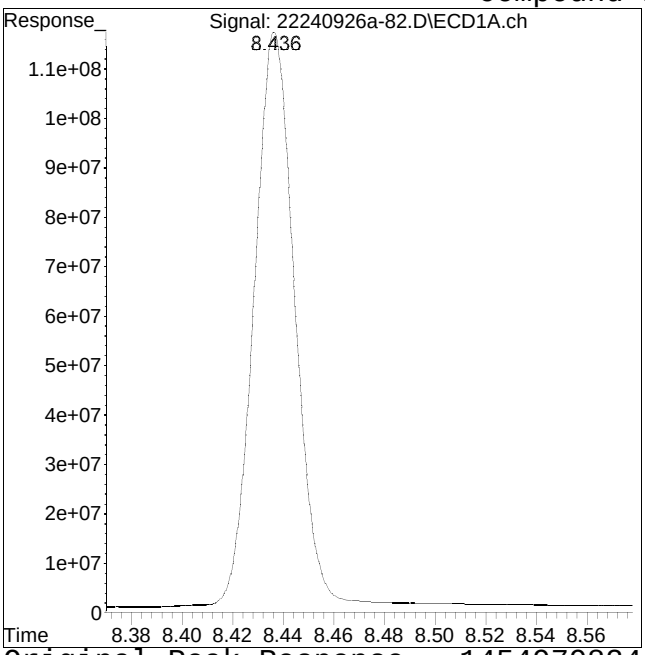
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

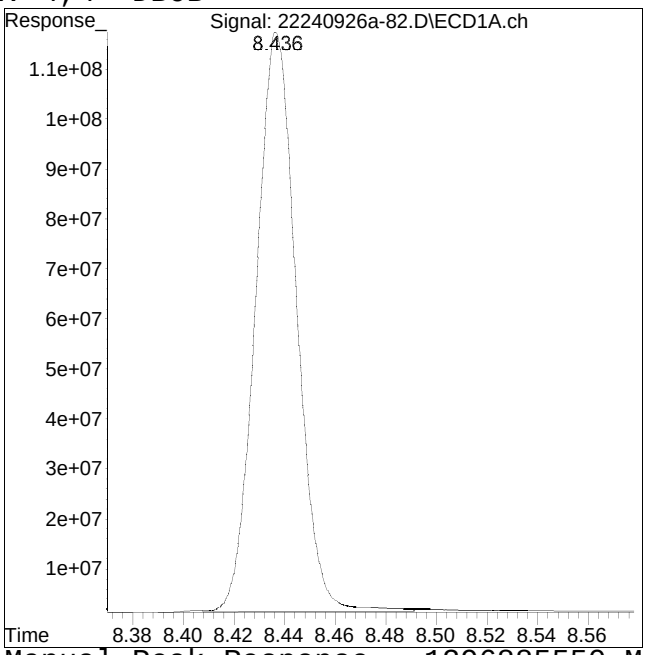


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-82.D Operator : pest22:akm
Date Inj'd : 9/27/2024 9:00 Instrument : Pest22
Sample : L2453720-08,42,, Quant Date : 9/27/2024 11:05 am

Compound #1: 4,4'-DBOB



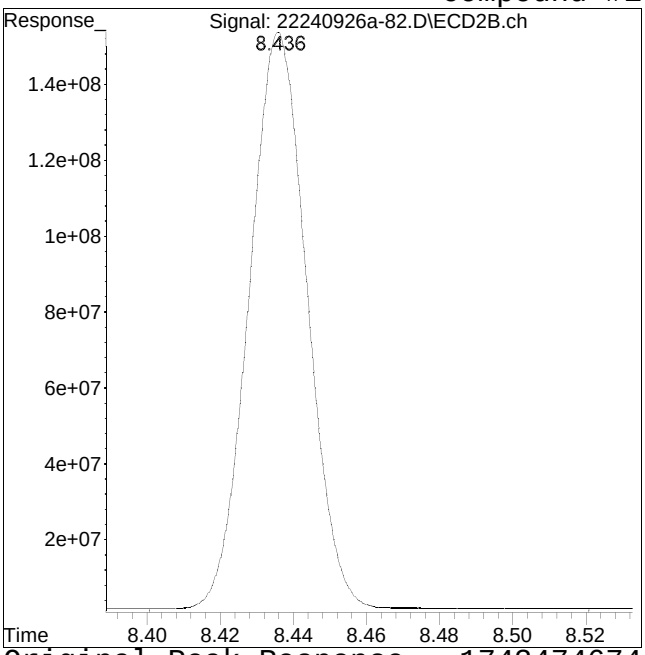


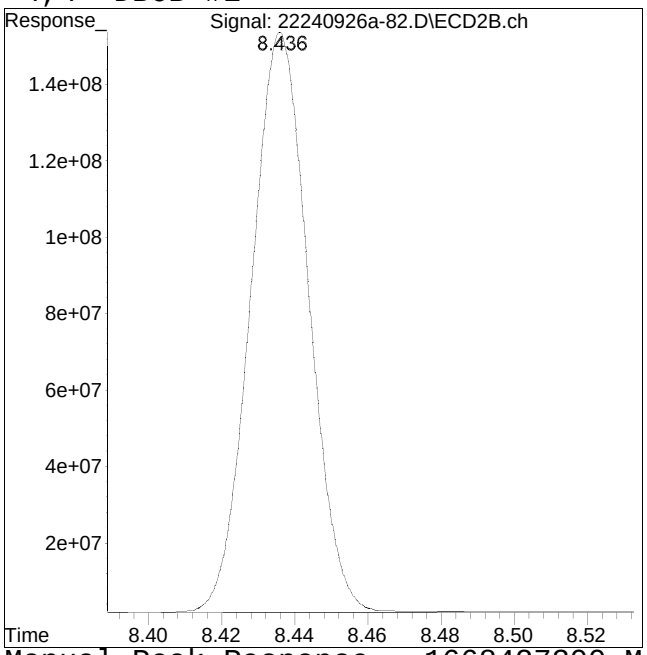
Original Peak Response = 1454979824 Manual Peak Response = 1296885550 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-82.D Operator : pest22:akm
Date Inj'd : 9/27/2024 9:00 Instrument : Pest22
Sample : L2453720-08,42,, Quant Date : 9/27/2024 11:05 am

Compound #14: 4,4'-DBOB #2



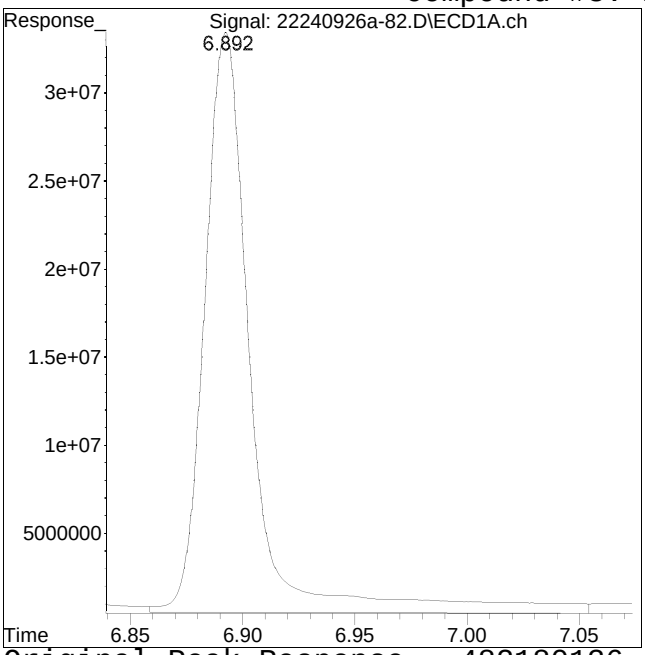


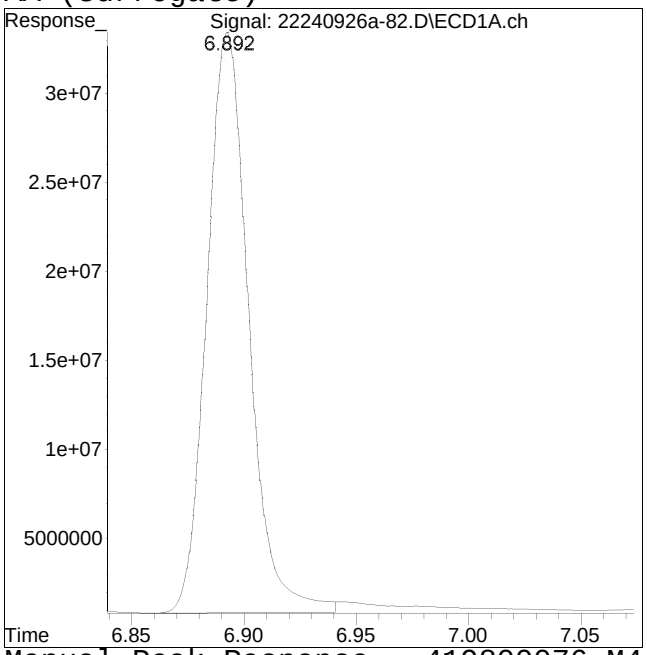
Original Peak Response = 1743474674 Manual Peak Response = 1668427300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-82.D Operator : pest22:akm
Date Inj'd : 9/27/2024 9:00 Instrument : Pest22
Sample : L2453720-08,42,, Quant Date : 9/27/2024 11:05 am

Compound #3: DCAA (surrogate)



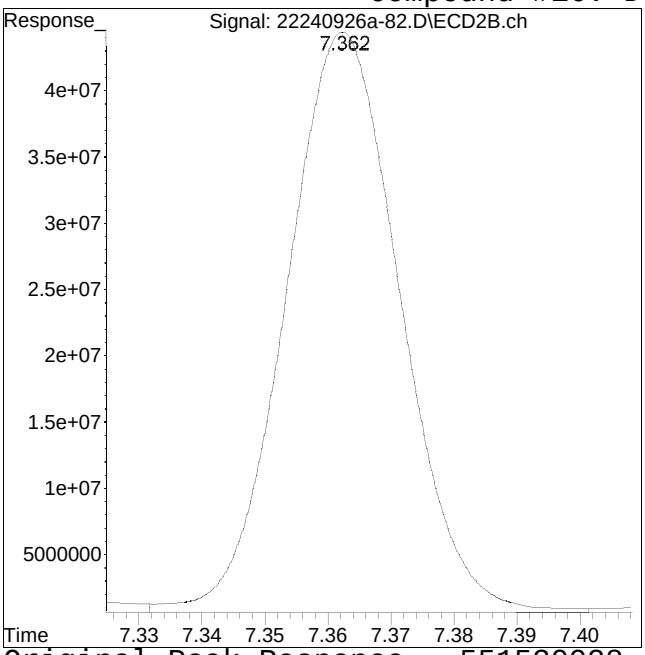


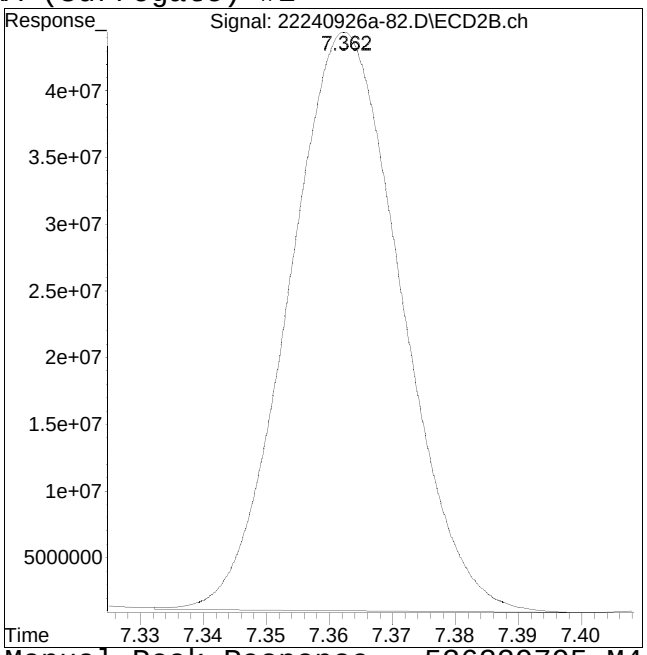
Original Peak Response = 482180136 Manual Peak Response = 419800076 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-82.D Operator : pest22:akm
Date Inj'd : 9/27/2024 9:00 Instrument : Pest22
Sample : L2453720-08,42,, Quant Date : 9/27/2024 11:05 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 551530928 Manual Peak Response = 536329795 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-83.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 09:19
Operator : pest22:akm
Sample : L2453720-09,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:05:35 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-80.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.437	8.436	1283.2E6	1652.1E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1448720474				Recovery =	88.58%	
	Standard Area 1 : #2 = 1831961021				Recovery =	90.18%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.892	7.362	403.6E6	514.5E6	0.427M4	0.411M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	85.40%	82.20%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

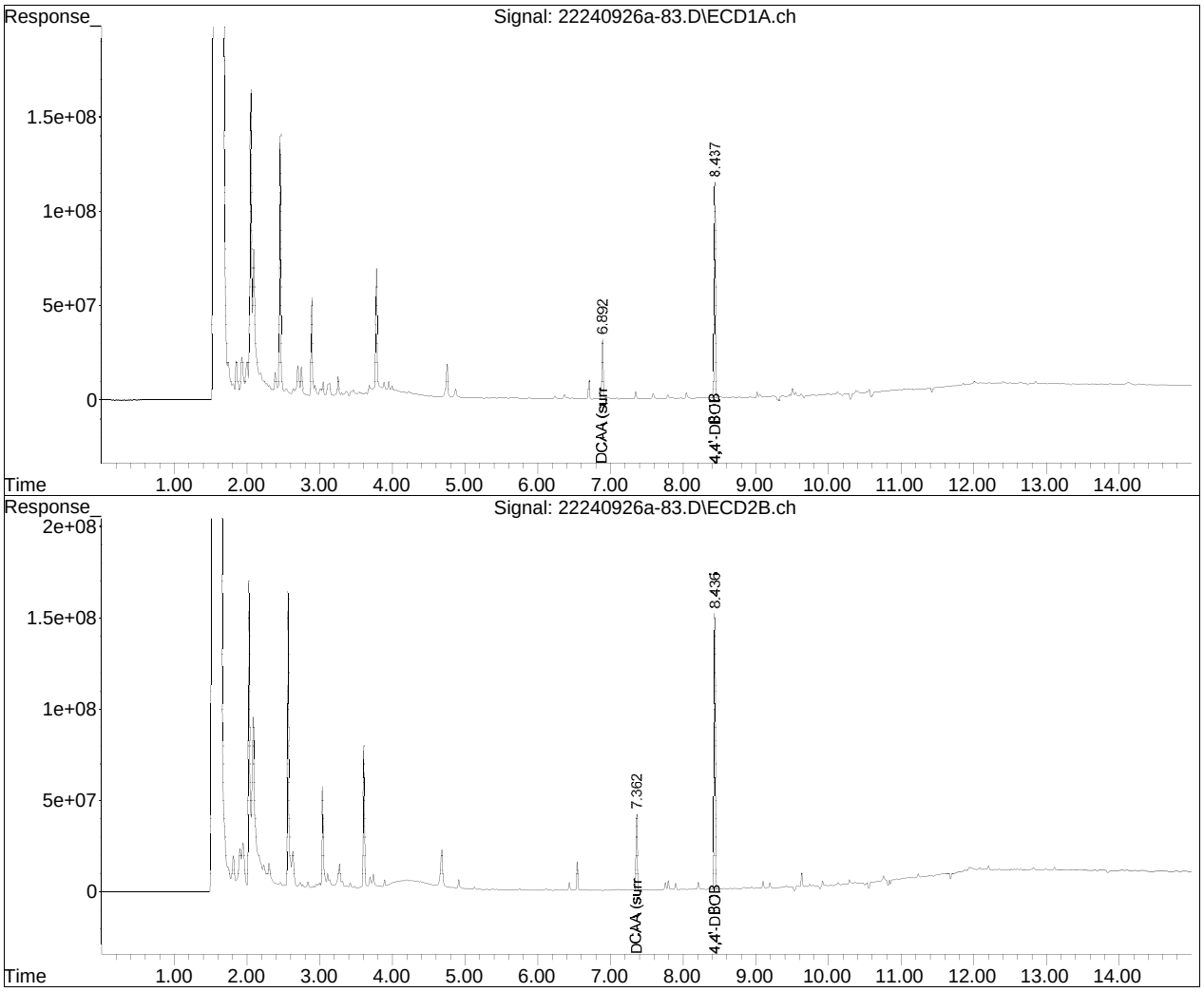
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-80.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-83.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 09:19
Operator : pest22:akm
Sample : L2453720-09,42,,
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 83 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:05:35 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

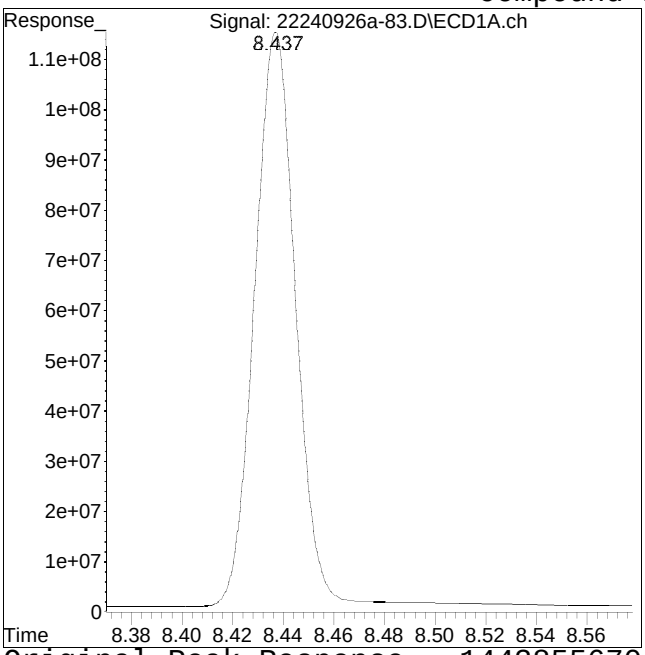
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

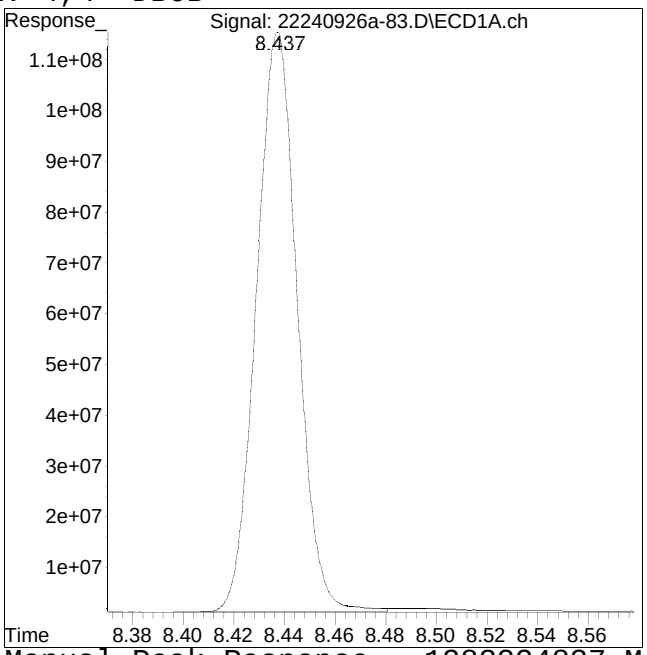


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-83.D Operator : pest22:akm
Date Inj'd : 9/27/2024 9:19 Instrument : Pest22
Sample : L2453720-09,42,, Quant Date : 9/27/2024 11:05 am

Compound #1: 4,4'-DBOB



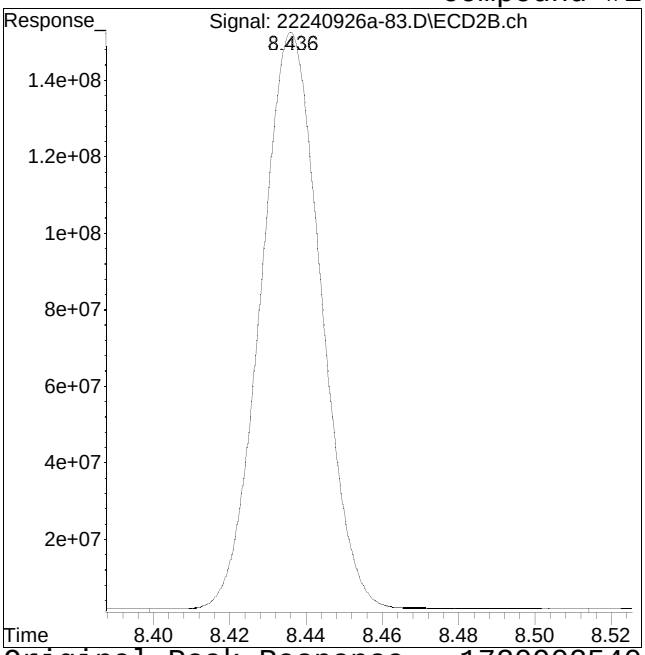


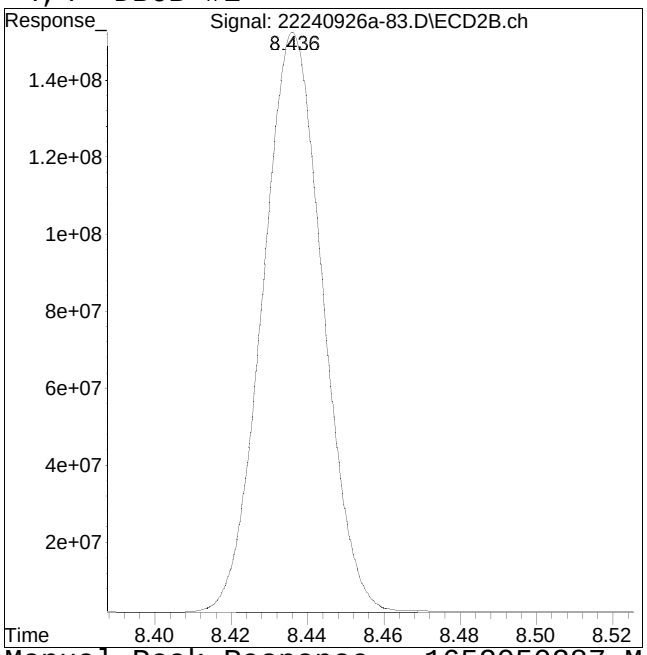
Original Peak Response = 1443855670 Manual Peak Response = 1283224837 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-83.D Operator : pest22:akm
Date Inj'd : 9/27/2024 9:19 Instrument : Pest22
Sample : L2453720-09,42,, Quant Date : 9/27/2024 11:05 am

Compound #14: 4,4'-DBOB #2



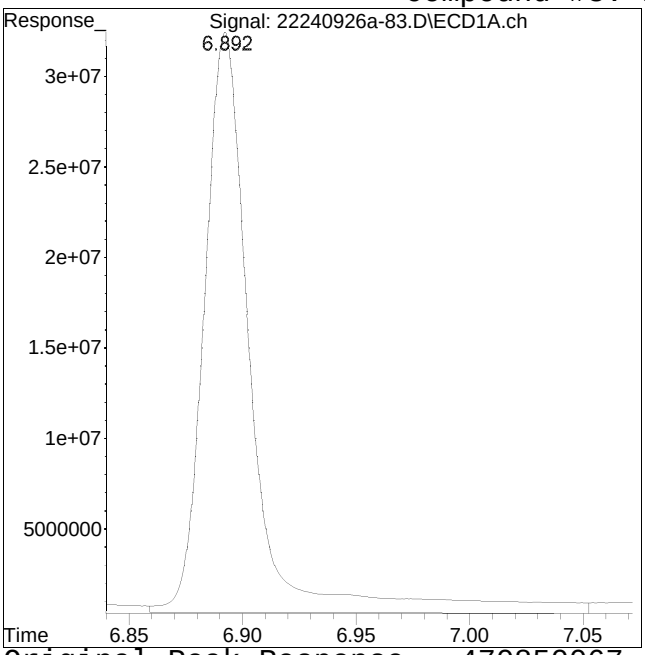


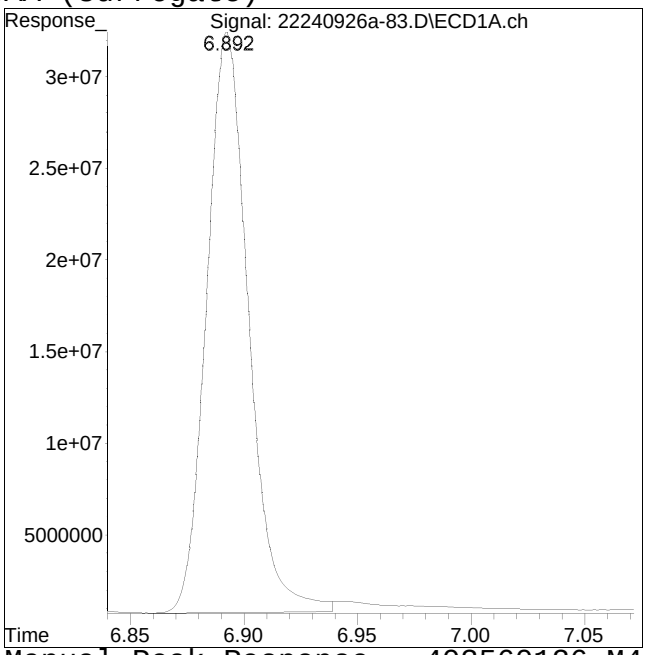
Original Peak Response = 1720902540 Manual Peak Response = 1652050287 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-83.D Operator : pest22:akm
Date Inj'd : 9/27/2024 9:19 Instrument : Pest22
Sample : L2453720-09,42,, Quant Date : 9/27/2024 11:05 am

Compound #3: DCAA (surrogate)



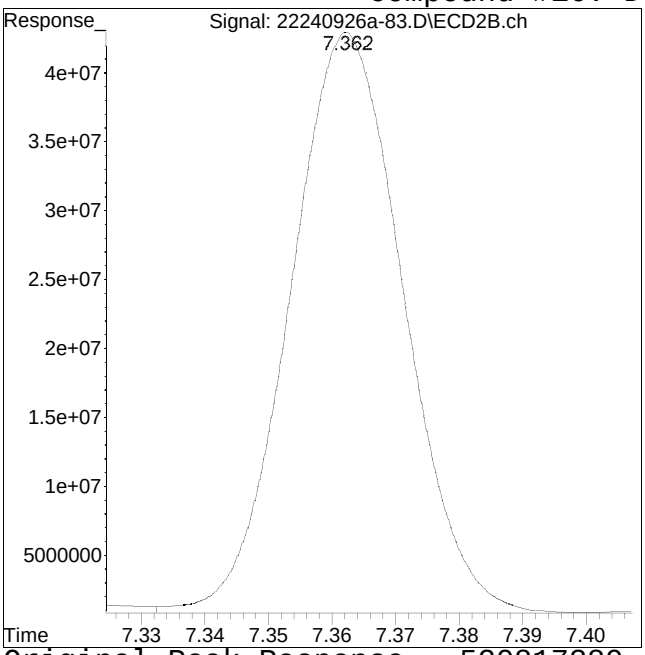


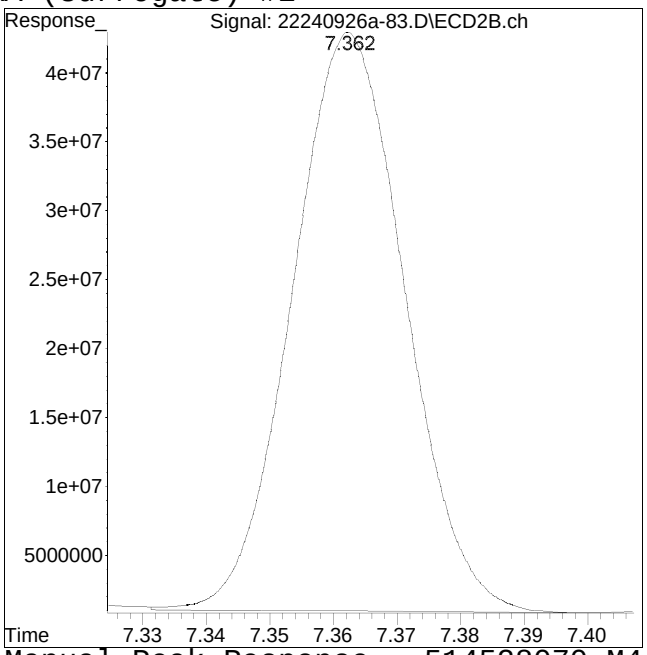
Original Peak Response = 470850067 Manual Peak Response = 403560126 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-83.D Operator : pest22:akm
Date Inj'd : 9/27/2024 9:19 Instrument : Pest22
Sample : L2453720-09,42,, Quant Date : 9/27/2024 11:05 am

Compound #16: DCAA (surrogate) #2





Original Peak Response = 520817389 Manual Peak Response = 514528070 M4
M4 = Poor automated baseline construction.

Herbicides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST16**	**Ical Ref**	**: ICAL21449**
Calibration dates	**: 08/29/24 12:47 08/29/24 14:25**		

Calibration Files

1 =16240829i-02.D 2 =16240829i-03.D 3 =16240829i-04.D 4 =16240829i-05.D 5 =16240829i-06.D

6 =16240829i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.246	0.222	0.209	0.200	0.185	0.172	0.206	12.88
3)	s	DCAA (surrogate)	0.220	0.212	0.197	0.176	0.166	0.153	0.187	14.23
4)	t	Dicamba	0.663	0.633	0.604	0.563	0.546	0.517	0.588	9.46
5)	t	MCPP		0.001	0.001	0.001	0.001	0.001	0.001	3.45
6)	t	MCPA		0.001	0.001	0.001	0.001	0.001	0.001	10.11
7)	t	Dichloroprop	0.205	0.203	0.188	0.167	0.161	0.149	0.179	13.01
8)	t	2,4-D	0.201	0.203	0.210	0.200	0.197	0.184	0.199	4.32
9)	t	2,4,5-TP (Silvex)	0.824	0.804	0.795	0.729	0.743	0.714	0.768	5.87
10)	t	2,4,5-T	0.827	0.822	0.783	0.709	0.716	0.702	0.760	7.64
11)	t	2,4-DB	0.098	0.107	0.110	0.101	0.104	0.103	0.104	4.01
12)	t	Dinoseb	0.724	0.656	0.693	0.567	0.524	0.498	0.610	15.36

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST16**	**Ical Ref**	**: ICAL21449**
Calibration dates	**: 08/29/24 12:47 08/29/24 14:25**		

Signal #2 Calibration Files

1 =16240829i-02.D 2 =16240829i-03.D 3 =16240829i-04.D 4 =16240829i-05.D 5 =16240829i-06.D

6 =16240829i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.235	0.210	0.199	0.186	0.172	0.163	0.194	13.58
3)	s	DCAA (surrogate)	0.232	0.217	0.199	0.175	0.163	0.158	0.191	15.74
4)	t	Dicamba	0.657	0.620	0.582	0.533	0.510	0.504	0.568	11.01
5)	t	MCPP		0.001	0.001	0.001	0.001	0.001	*L	0.9973
6)	t	MCPA		0.002	0.002	0.001	0.001	0.001	*L	0.9973
7)	t	Dichloroprop	0.220	0.203	0.189	0.167	0.158	0.153	0.182	14.86
8)	t	2,4-D	0.283	0.259	0.236	0.206	0.200	0.200	0.231	15.05
9)	t	2,4,5-TP (Sil	0.905	0.875	0.837	0.761	0.750	0.754	0.814	8.32
10)	t	2,4,5-T	0.572	0.596	0.611	0.613	0.652	0.698	0.624	7.21
11)	t	2,4-DB	0.127	0.124	0.121	0.113	0.114	0.116	0.119	4.84
12)	t	Dinoseb	0.499	0.488	0.466	0.432	0.423	0.429	0.456	7.22

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21511**
Calibration dates	**: 09/20/24 11:42 09/20/24 13:15**		

Calibration Files

1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D

6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.268	0.253	0.244	0.207	0.196		0.234	13.27
3)	s	DCAA (surrogate)	0.213	0.207	0.200	0.180	0.159	0.146	0.184	14.76
4)	t	Dicamba	0.663	0.640	0.602	0.542	0.487	0.471	0.568	14.09
5)	t	MCPP	0.000	0.000	0.001	0.001	0.001	0.001	0.000	10.39
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	10.36
7)	t	Dichloroprop	0.218	0.201	0.190	0.162	0.144	0.134	0.175	19.07
8)	t	2,4-D	0.260	0.236	0.223	0.201	0.182	0.174	0.213	15.60
9)	t	2,4,5-TP (Silvex)	0.882	0.856	0.832	0.739	0.680	0.645	0.772	12.73
10)	t	2,4,5-T	0.939	0.859	0.837	0.747	0.695	0.676	0.792	12.99
11)	t	2,4-DB	0.141	0.121	0.123	0.110	0.103	0.098	0.116	13.37
12)	t	Dinoseb	0.754	0.680	0.636	0.533	0.481	0.459	0.590	19.96

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST22**	**Ical Ref**	**: ICAL21511**
Calibration dates	**: 09/20/24 11:42 09/20/24 13:15**		

Signal #2 Calibration Files

1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D

6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.225	0.227	0.203	0.179	0.176		0.202	12.00
3)	s	DCAA (surrogate)	0.235	0.227	0.198	0.174	0.155	0.148	0.189	19.30
4)	t	Dicamba	0.638	0.604	0.557	0.497	0.457	0.447	0.534	14.78
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	8.78
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.33
7)	t	Dichloroprop	0.214	0.201	0.182	0.160	0.142	0.136	0.173	18.35
8)	t	2,4-D	0.270	0.252	0.231	0.204	0.189	0.185	0.222	15.74
9)	t	2,4,5-TP (Sil	0.905	0.874	0.820	0.723	0.673	0.659	0.776	13.57
10)	t	2,4,5-T	0.863	0.859	0.799	0.713	0.687	0.685	0.768	10.90
11)	t	2,4-DB	0.143	0.139	0.131	0.117	0.113	0.111	0.126	11.01
12)	t	Dinoseb	0.557	0.554	0.517	0.455	0.429	0.425	0.490	12.42

Response Factor Report PEST16

Method Path : I:\PCB\Pest16\2024\240829ICAL\
Method File : Herb16_2024_08_29_ICAL.m
Title : herb
Last Update : Wed Sep 04 10:59:35 2024
Response Via : Initial Calibration

Calibration Files
1 =16240829i-02.D 2 =16240829i-03.D 3 =16240829i-04.D 4 =16240829i-05.D 5 =16240829i-06.D
6 =16240829i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.246	0.222	0.209	0.200	0.185	0.172	0.206	12.88
3)	s	DCAA (surrogate)	0.220	0.212	0.197	0.176	0.166	0.153	0.187	14.23
4)	t	Dicamba	0.663	0.633	0.604	0.563	0.546	0.517	0.588	9.46
5)	t	MCPP		0.001	0.001	0.001	0.001	0.001	0.001	3.45
6)	t	MCPA		0.001	0.001	0.001	0.001	0.001	0.001	10.11
7)	t	Dichloroprop	0.205	0.203	0.188	0.167	0.161	0.149	0.179	13.01
8)	t	2,4-D	0.201	0.203	0.210	0.200	0.197	0.184	0.199	4.32
9)	t	2,4,5-TP (Sil...	0.824	0.804	0.795	0.729	0.743	0.714	0.768	5.87
10)	t	2,4,5-T	0.827	0.822	0.783	0.709	0.716	0.702	0.760	7.64
11)	t	2,4-DB	0.098	0.107	0.110	0.101	0.104	0.103	0.104	4.01
12)	t	Dinoseb	0.724	0.656	0.693	0.567	0.524	0.498	0.610	15.36

Signal #2 Calibration Files
1 =16240829i-02.D 2 =16240829i-03.D 3 =16240829i-04.D 4 =16240829i-05.D 5 =16240829i-06.D
6 =16240829i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon	0.235	0.210	0.199	0.186	0.172	0.163	0.194	13.58
3)	s	DCAA (surrogate)	0.232	0.217	0.199	0.175	0.163	0.158	0.191	15.74
4)	t	Dicamba	0.657	0.620	0.582	0.533	0.510	0.504	0.568	11.01
5)	t	MCPP		0.001	0.001	0.001	0.001	0.001	*L	0.9973
6)	t	MCPA		0.002	0.002	0.001	0.001	0.001	*L	0.9973
7)	t	Dichloroprop	0.220	0.203	0.189	0.167	0.158	0.153	0.182	14.86
8)	t	2,4-D	0.283	0.259	0.236	0.206	0.200	0.200	0.231	15.05
9)	t	2,4,5-TP (Sil...	0.905	0.875	0.837	0.761	0.750	0.754	0.814	8.32
10)	t	2,4,5-T	0.572	0.596	0.611	0.613	0.652	0.698	0.624	7.21
11)	t	2,4-DB	0.127	0.124	0.121	0.113	0.114	0.116	0.119	4.84

Method Path : I:\PCB\Pest16\2024\240829ICAL\
Method File : Herb16_2024_08_29_ICAL.m
Title : herb
Last Update : Wed Sep 04 10:59:35 2024
Response Via : Initial Calibration

Calibration Files
1 =16240829i-02.D 2 =16240829i-03.D 3 =16240829i-04.D 4 =16240829i-05.D 5 =16240829i-06.D
6 =16240829i-07.D

	Compound	1	2	3	4	5	6	Avg	%RSD
12) t	Dinoseb	0.499	0.488	0.466	0.432	0.423	0.429	0.456	7.22

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 12:47 pm
Operator : pest16:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:18:35 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:18:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.403	8.324	1191.5E6	1561.5E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.833	7.226	49337513	68022445	0.055M4	0.057M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	11.00%#	11.40%#
		Target Compounds						
2)	t	Dalapon	1.829	1.787	53362667	66800596	0.054M4	0.055
4)	t	Dicamba	7.015	7.404	148.5E6	192.8E6	0.052M4	0.054M4
5)	t	MCPP	7.225	7.524	13551501	39300396	4.388	6.167M4
6)	t	MCPA	7.375	7.756	27158835	61605284	5.250M4	6.481M4
7)	t	Dichloroprop	7.732	8.079	45892529	64725694	0.053M4	0.057
8)	t	2,4-D	7.958f	8.365	45022926	83025257	0.047M4	0.058M4
9)	t	2,4,5-TP (Si	8.685	9.039	186.4E6	268.5E6	0.050M4	0.053
10)	t	2,4,5-T	8.936f	9.347	187.3E6	169.8E6	0.051M4	0.044
11)	t	2,4-DB	9.364f	9.722	22414522	38208703	0.045	0.052
12)	t	Dinoseb	10.078	9.925	163.9E6	148.2E6	0.059M4	0.052
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 12:47 pm
Operator : pest16:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:18:35 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:18:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

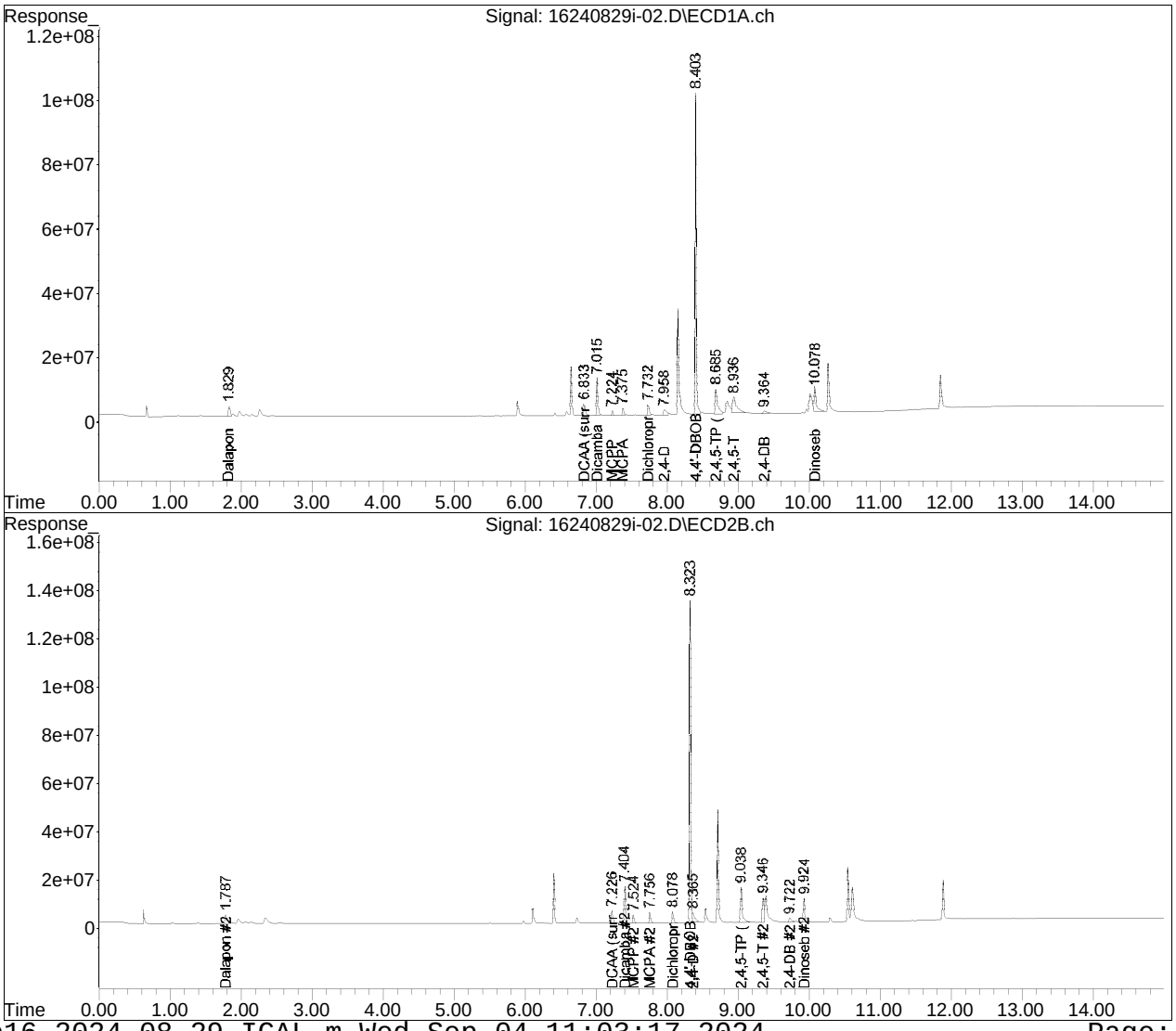
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 12:47 pm
Operator : pest16:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:18:35 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:18:27 2024
Response via : Initial Calibration
Integrator: ChemStation

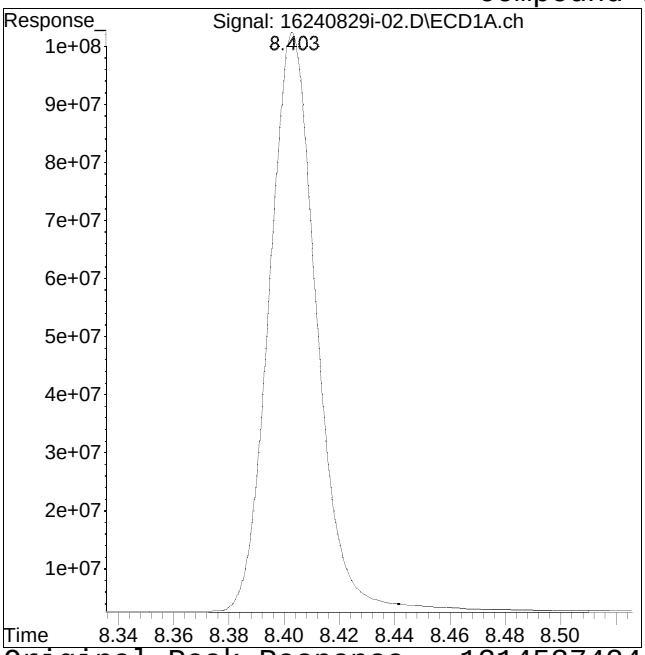
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

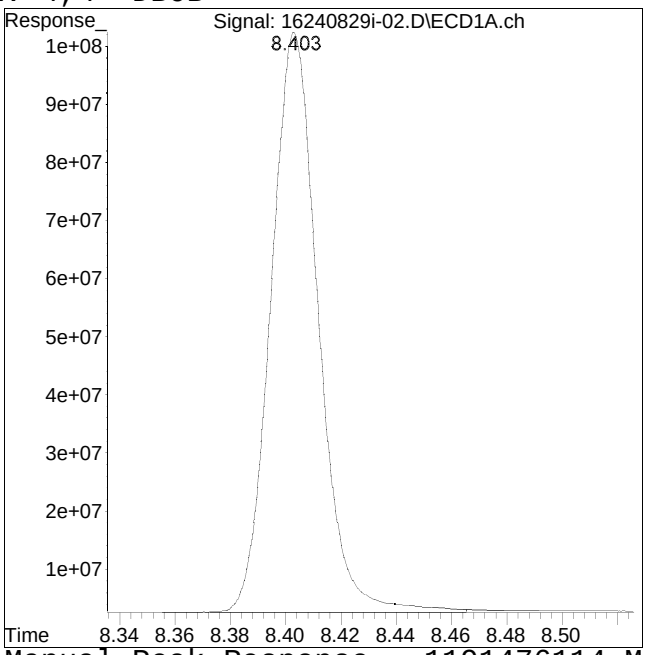


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #1: 4,4'-DBOB



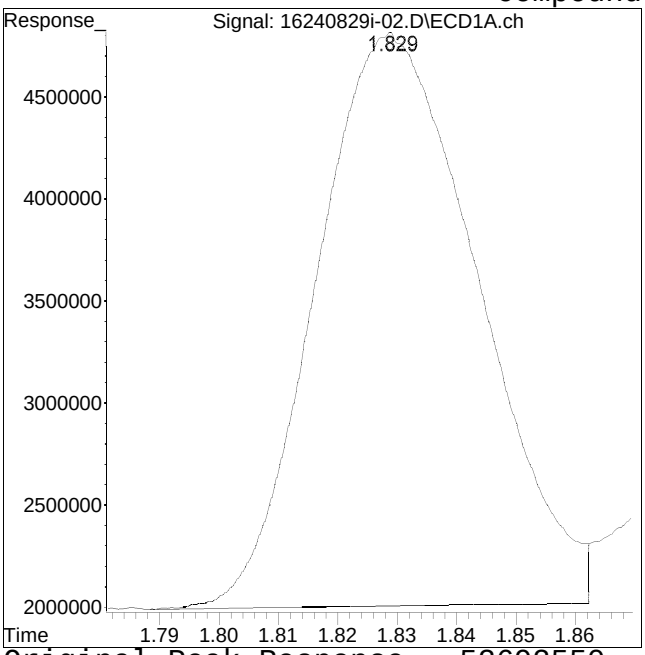


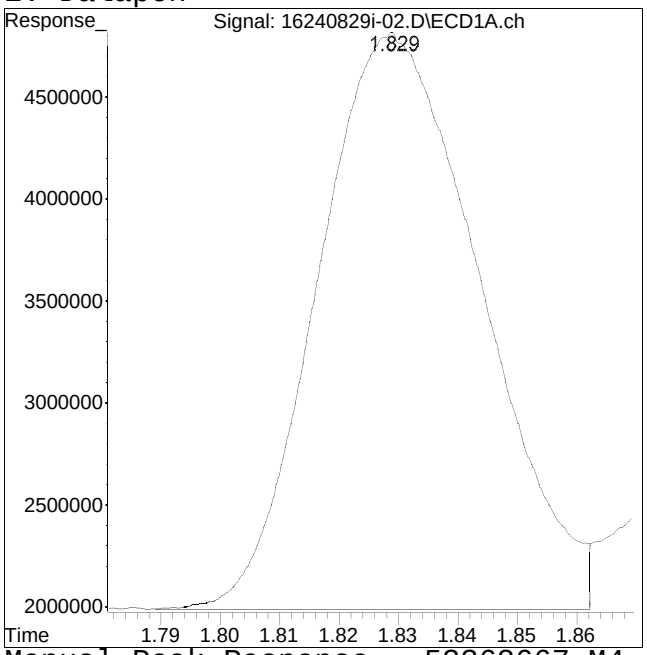
Original Peak Response = 1214537424 Manual Peak Response = 1191476114 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #2: Dalapon



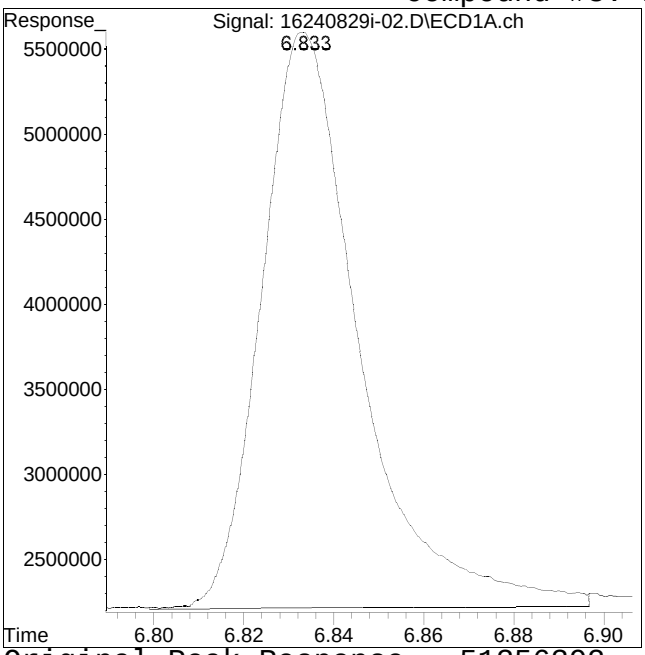


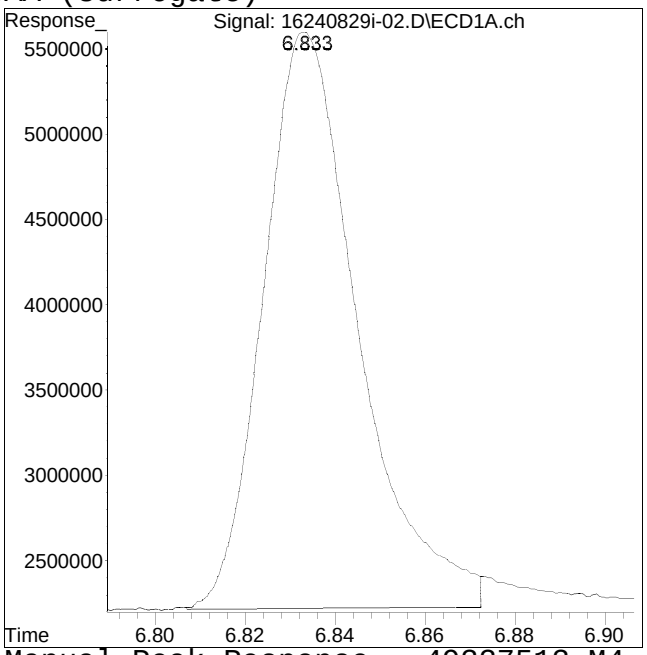
Original Peak Response = 52692550 Manual Peak Response = 53362667 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #3: DCAA (surrogate)



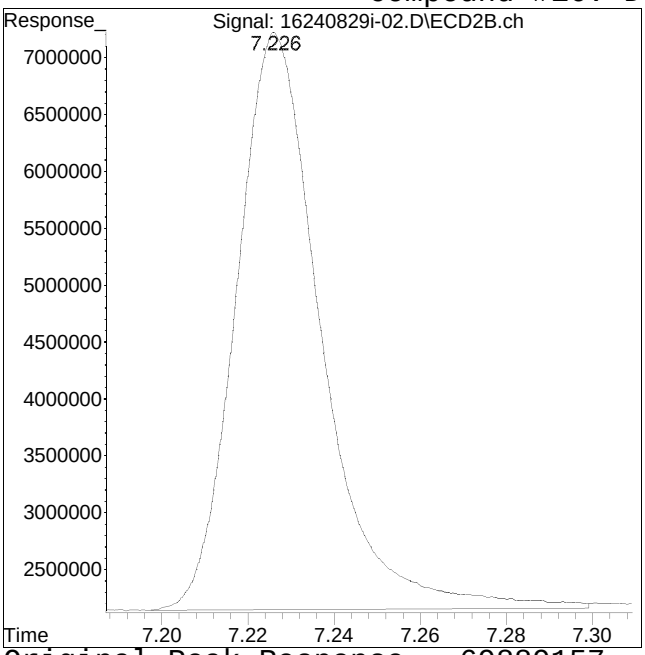


Original Peak Response = 51356392 Manual Peak Response = 49337513 M4
M4 = Poor automated baseline construction.

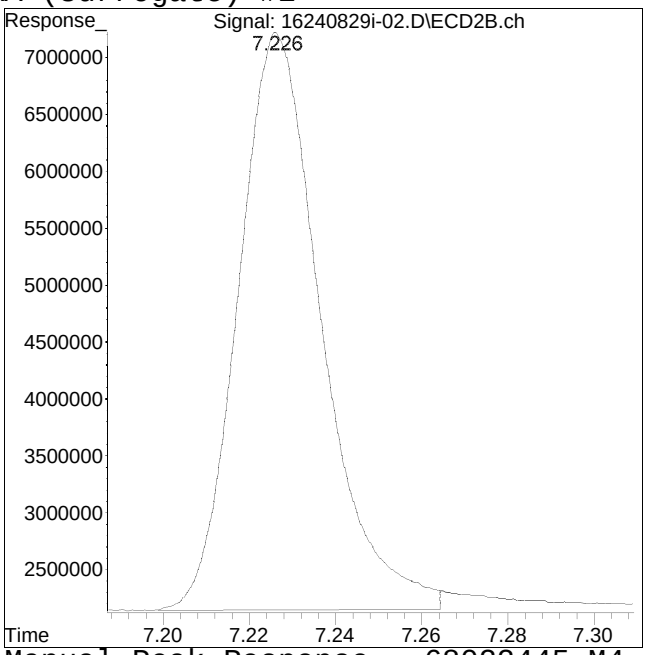
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 69889157



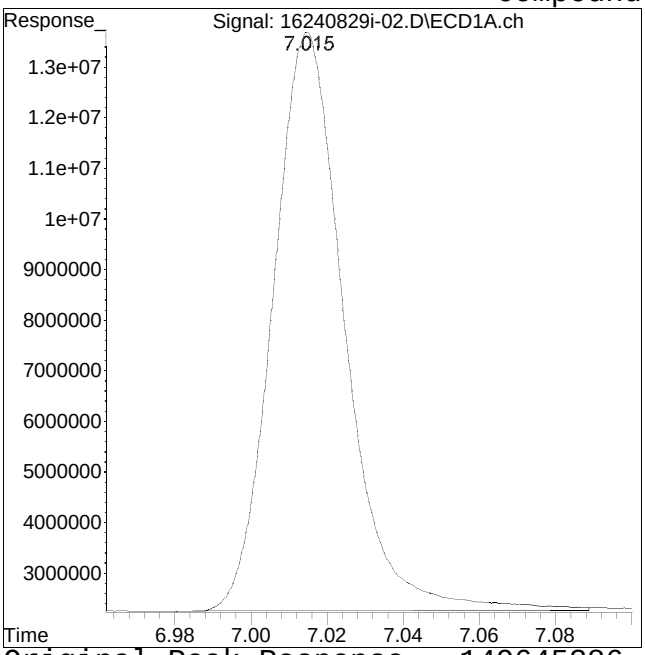
Manual Peak Response = 68022445 M4

M4 = Poor automated baseline construction.

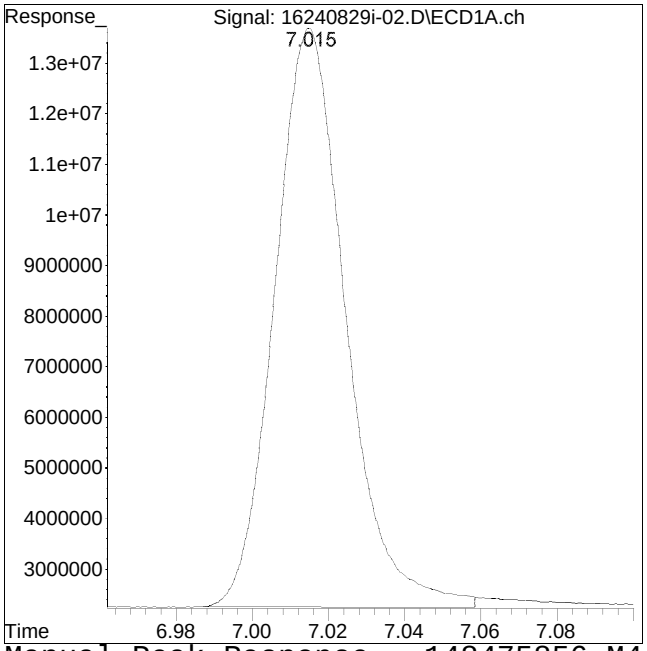
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #4: Dicamba



Original Peak Response = 149645386



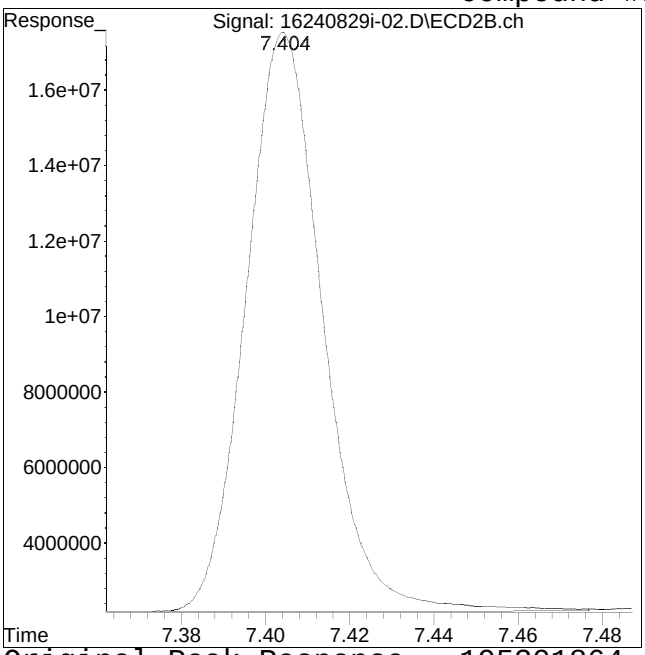
Manual Peak Response = 148475856 M4

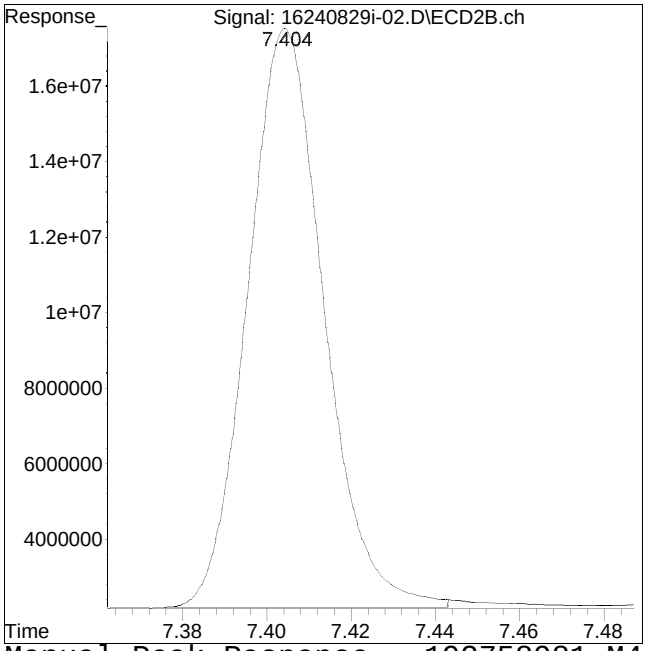
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #17: Dicamba #2



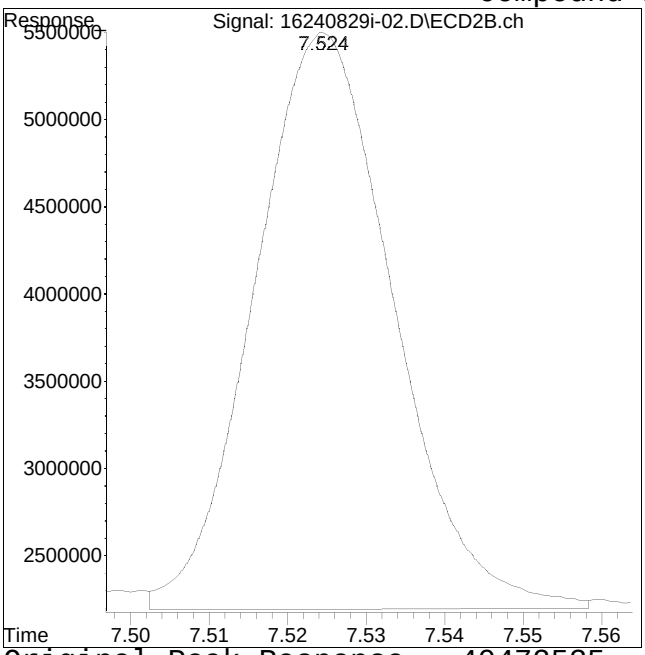


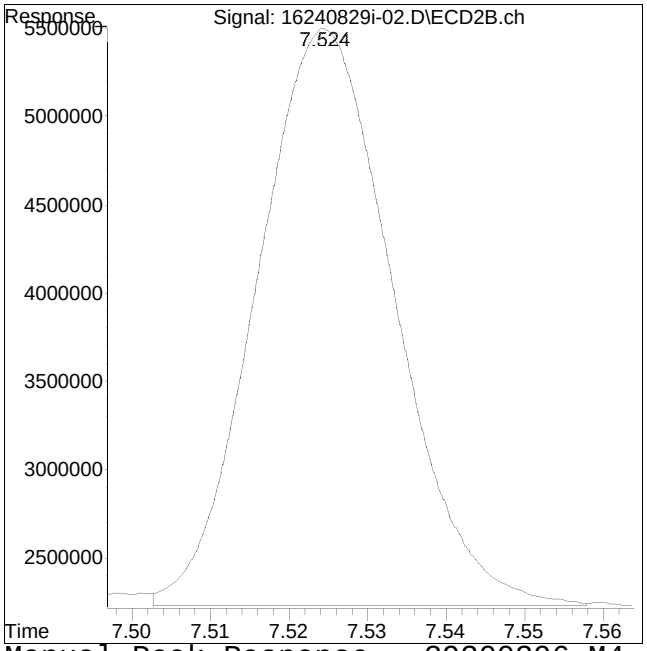
Original Peak Response = 195301864 Manual Peak Response = 192758981 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #18: MCPP #2



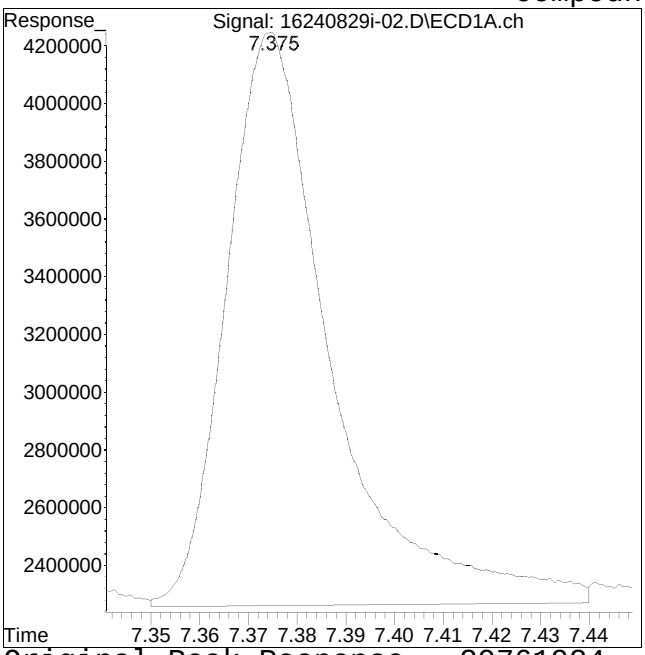


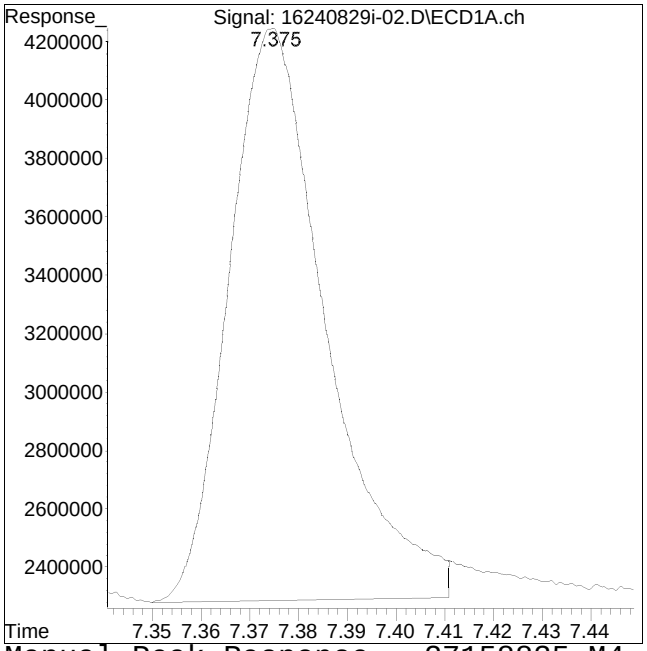
Original Peak Response = 40472535 Manual Peak Response = 39300396 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #6: MCPA



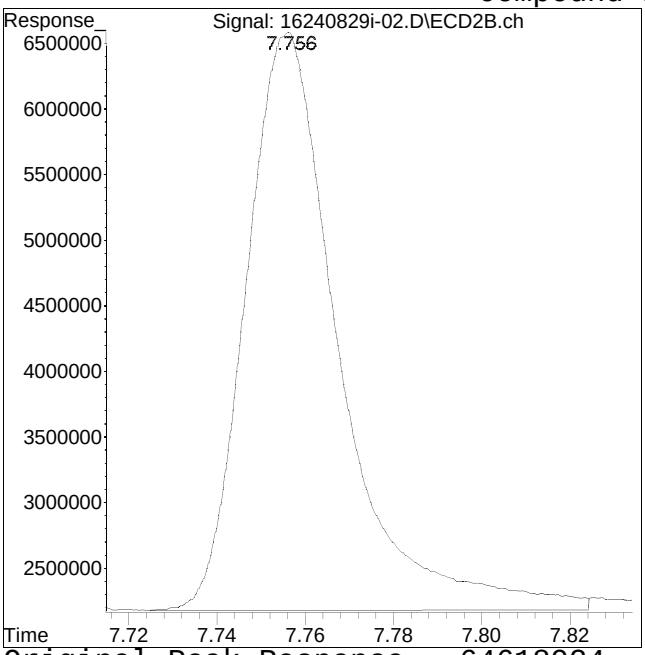


Original Peak Response = 29761924 Manual Peak Response = 27158835 M4
M4 = Poor automated baseline construction.

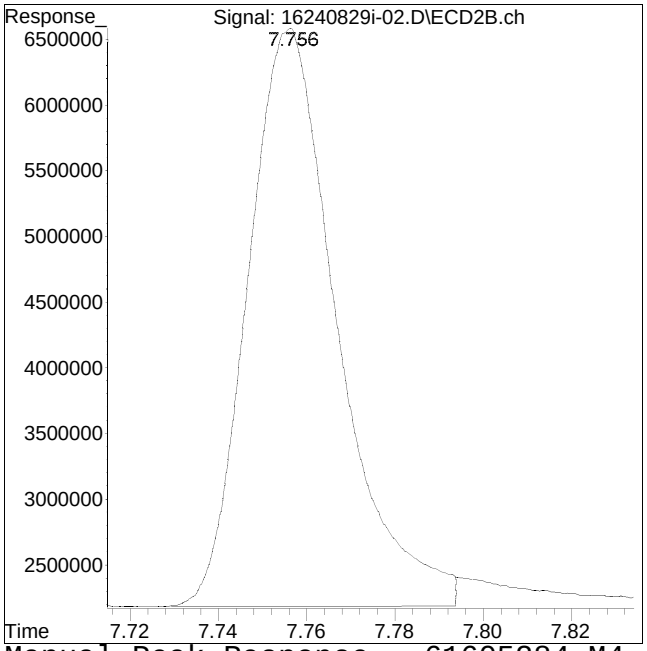
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #19: MCPA #2



Original Peak Response = 64618924



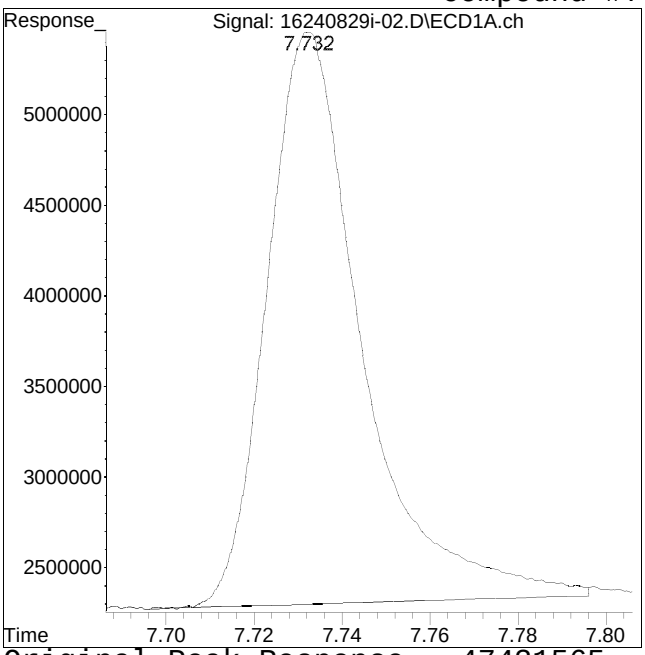
Manual Peak Response = 61605284 M4

M4 = Poor automated baseline construction.

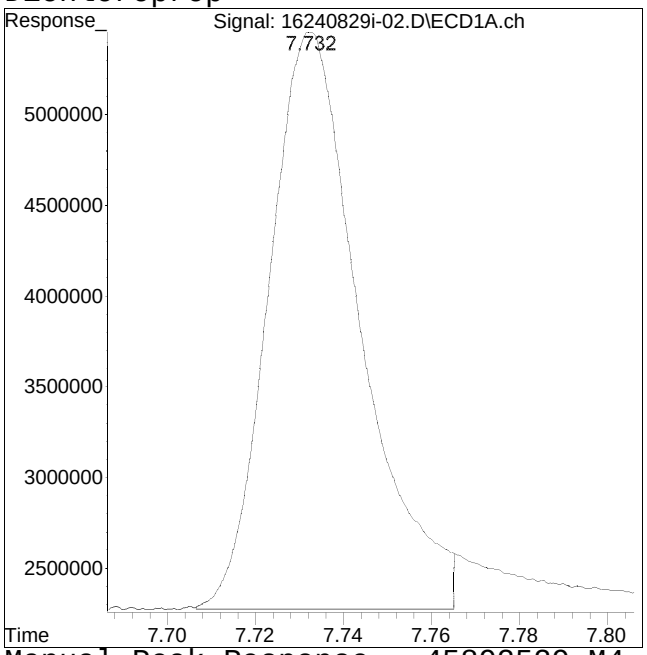
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #7: Dichloroprop



Original Peak Response = 47431565



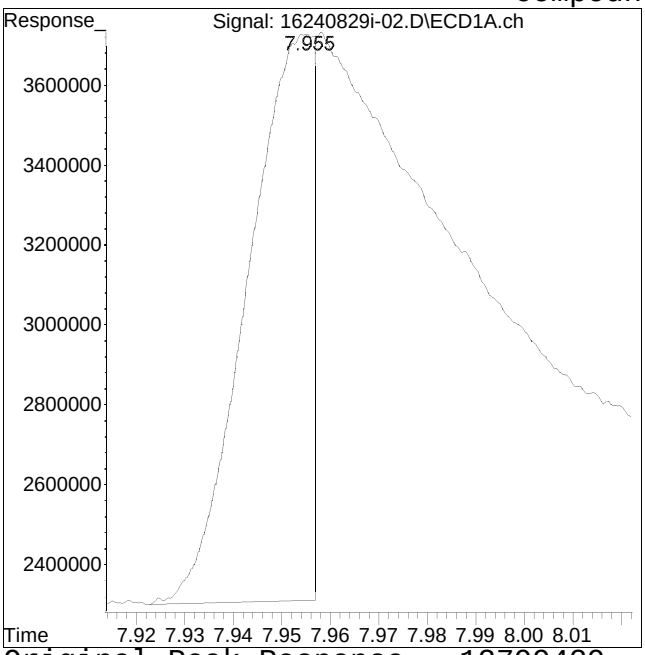
Manual Peak Response = 45892529 M4

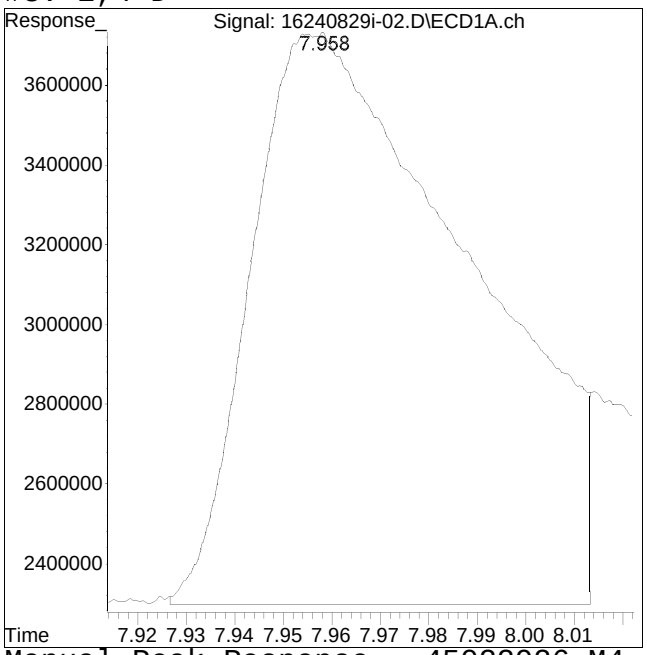
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #8: 2,4-D



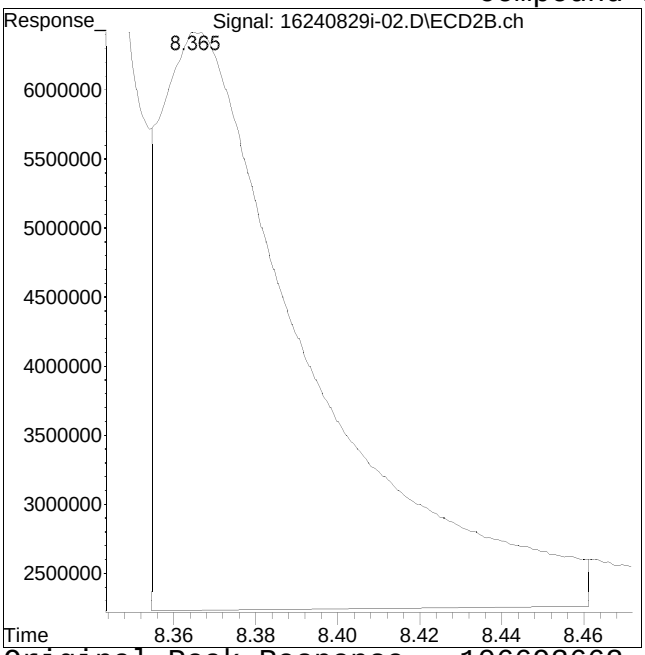


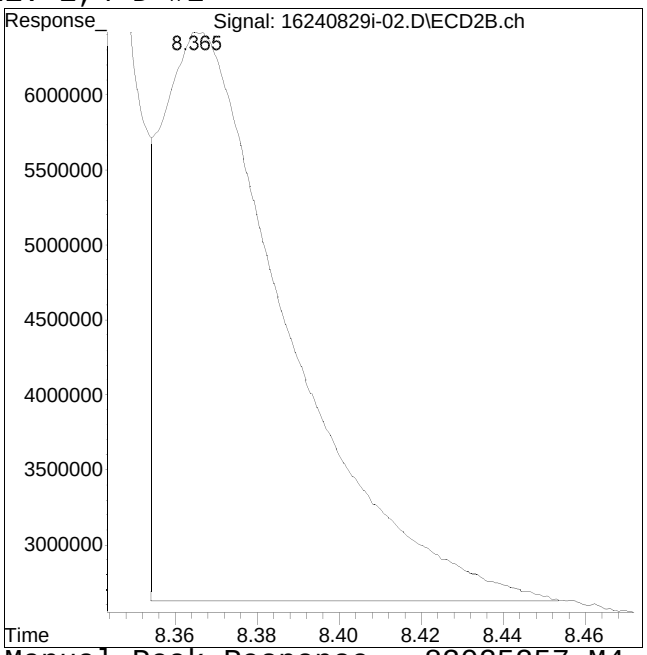
Original Peak Response = 12799429 Manual Peak Response = 45022926 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #21: 2,4-D #2



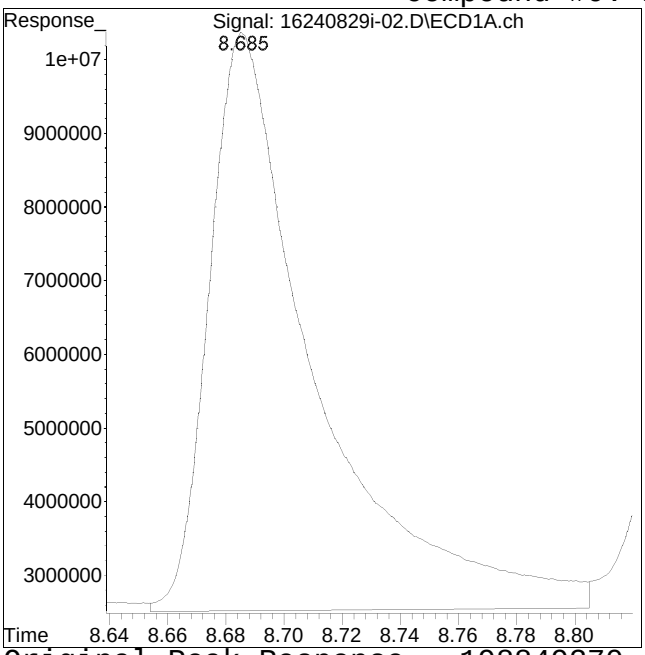


Original Peak Response = 106693662 Manual Peak Response = 83025257 M4
M4 = Poor automated baseline construction.

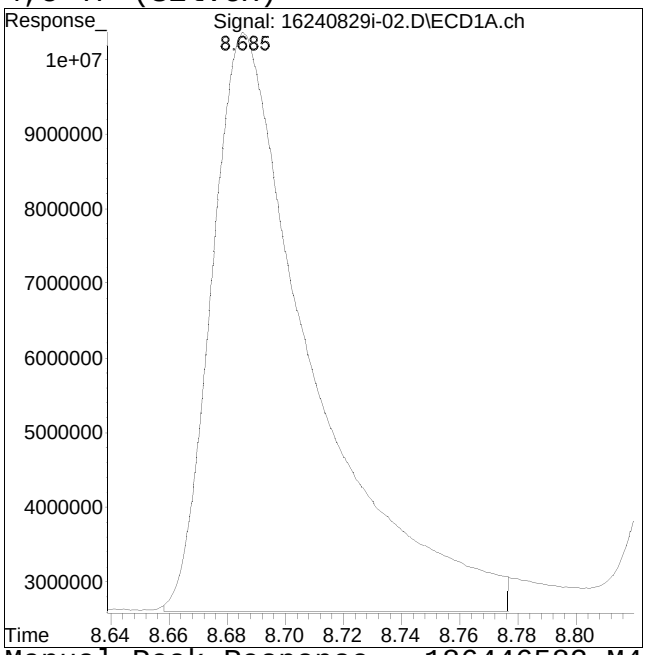
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #9: 2,4,5-TP (Silvex)



Original Peak Response = 198849370



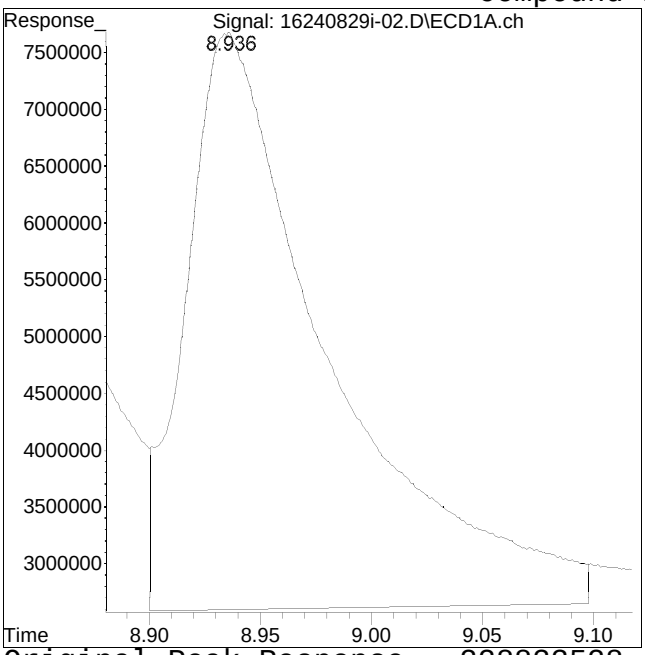
Manual Peak Response = 186446582 M4

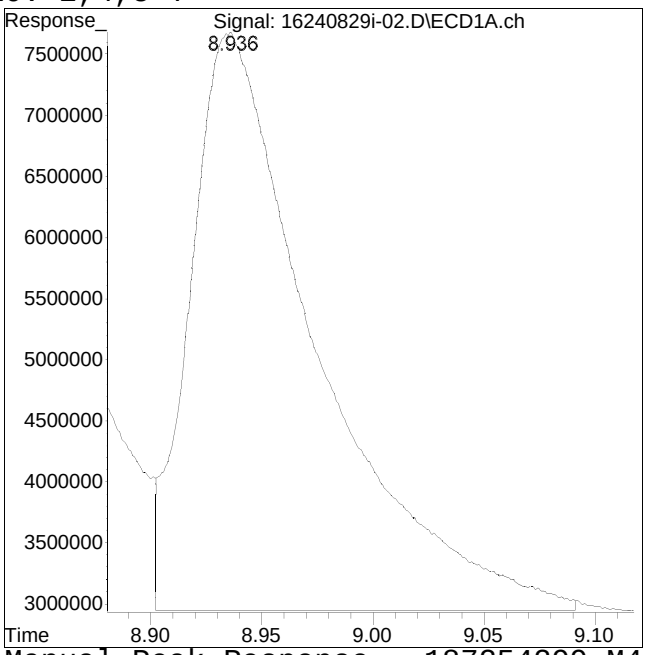
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #10: 2,4,5-T



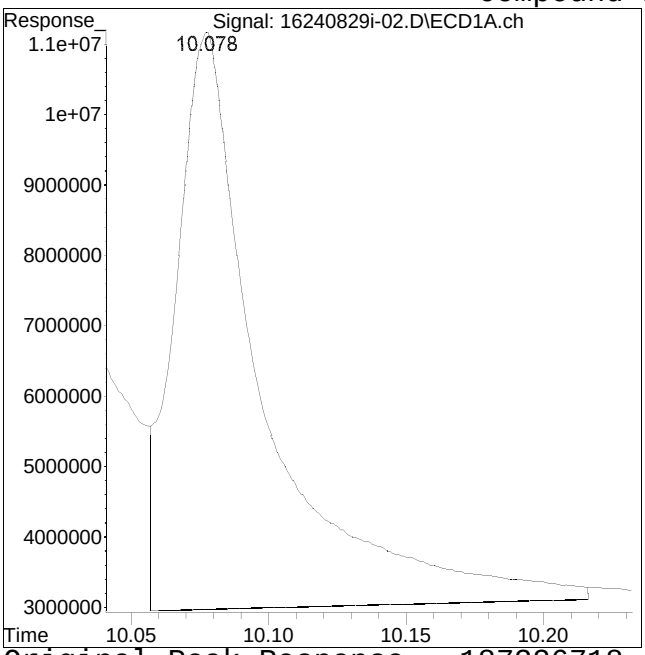


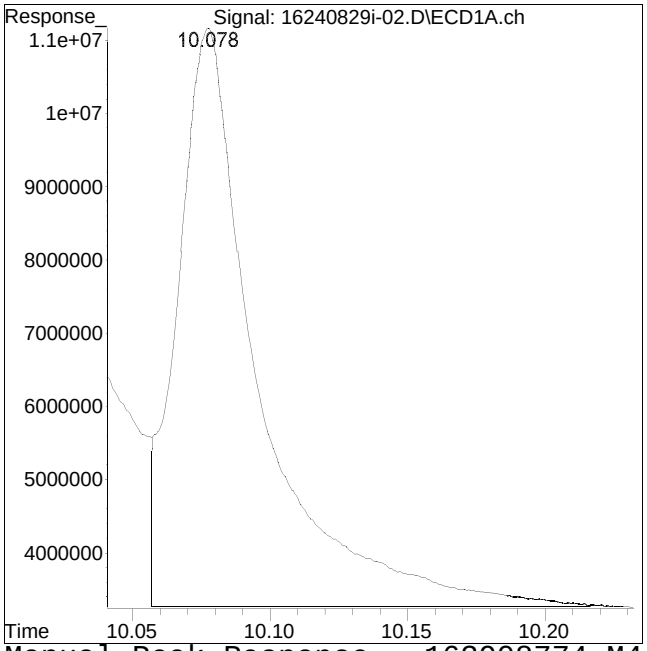
Original Peak Response = 228833528 Manual Peak Response = 187254299 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-02.D Operator : pest16:akm
Date Inj'd : 8/29/2024 12:47 pm Instrument : PEST16
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 8/30/2024 9:18 am

Compound #12: Dinoseb





Original Peak Response = 187326718 Manual Peak Response = 163908774 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:07 pm
Operator : pest16:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:14:24 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:14:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.397	8.319	1166.1E6	1534.5E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.826	7.221	93028703	125.2E6	0.109M4	0.112M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	21.80%#	22.40%#
		Target Compounds						
2)	t	Dalapon	1.822	1.781	94280615	117.0E6	0.102	0.103
4)	t	Dicamba	7.008	7.399	277.8E6	357.9E6	0.103M4	0.106M4
5)	t	MCPP	7.218	7.519	29577370	71815393	9.657	12.232M4
6)	t	MCPA	7.367	7.749	51092551	107.7E6	10.360M4	12.517M4
7)	t	Dichloroprop	7.725	8.073	88925696	117.4E6	0.109M4	0.110M4
8)	t	2,4-D	7.945	8.360	89023409	149.4E6	0.095M4	0.111M4
9)	t	2,4,5-TP (Si	8.677	9.033	356.3E6	510.1E6	0.100M4	0.105M4
10)	t	2,4,5-T	8.921	9.339	364.1E6	347.3E6	0.103M4	0.089
11)	t	2,4-DB	9.349	9.713	47700382	72879889	0.097M4	0.101
12)	t	Dinoseb	10.071	9.920	290.8E6	284.8E6	0.113M4	0.104

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:07 pm
Operator : pest16:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:14:24 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:14:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

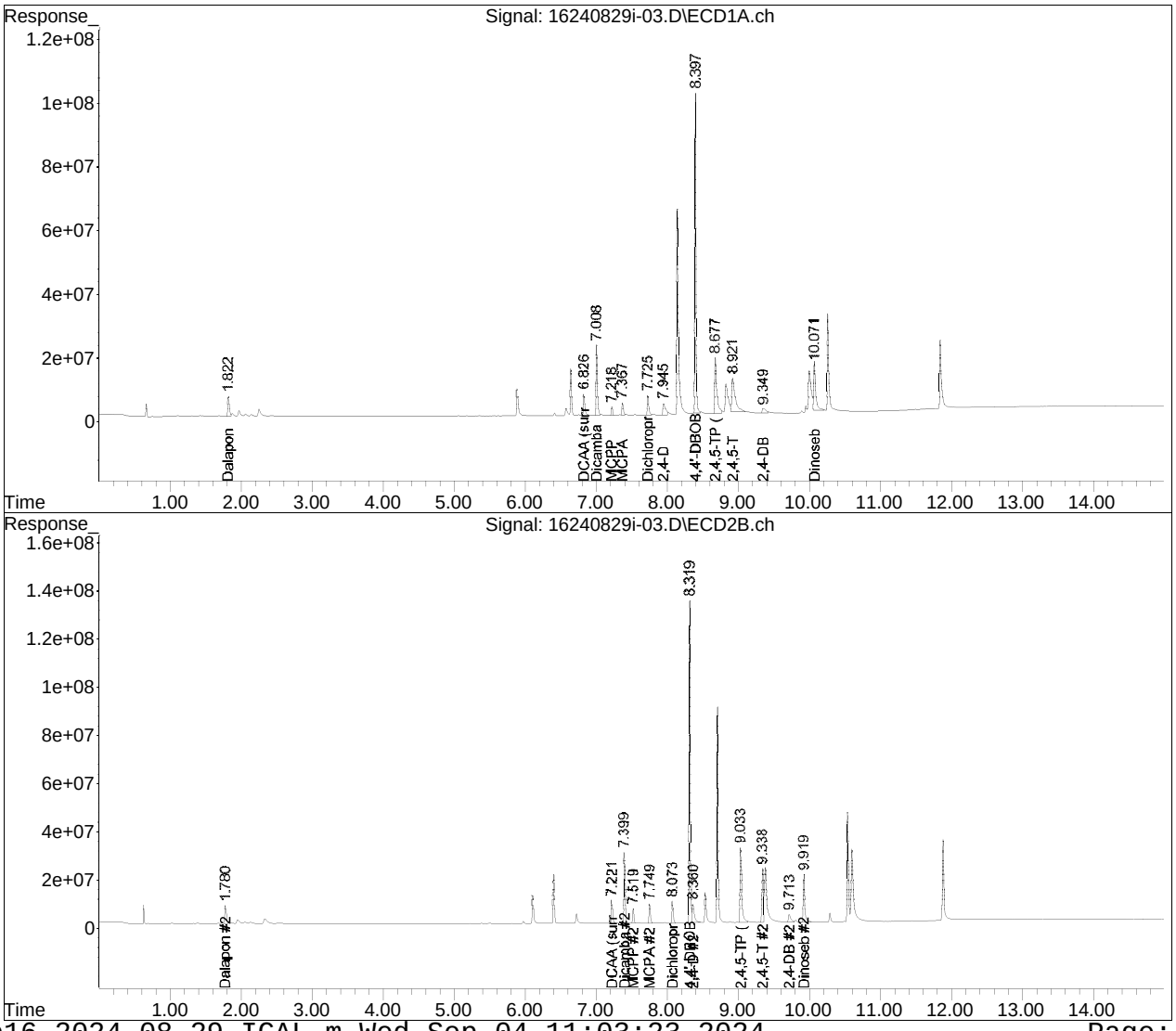
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:07 pm
Operator : pest16:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:14:24 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:14:15 2024
Response via : Initial Calibration
Integrator: ChemStation

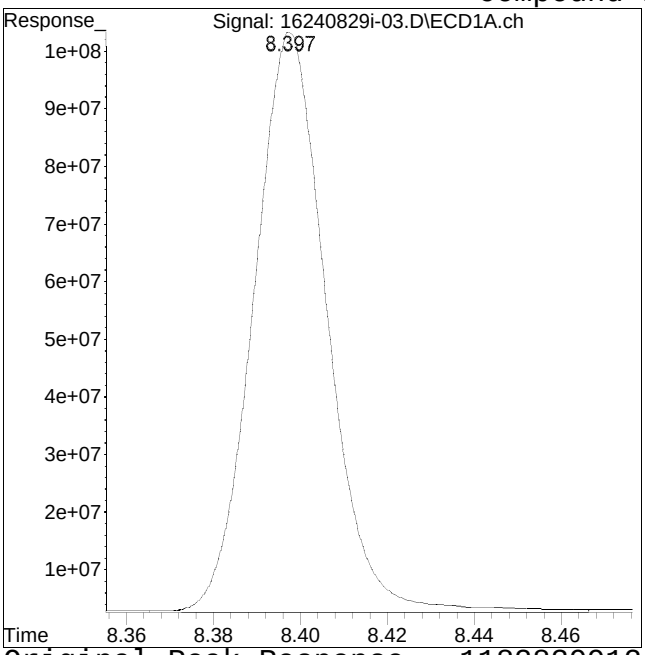
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

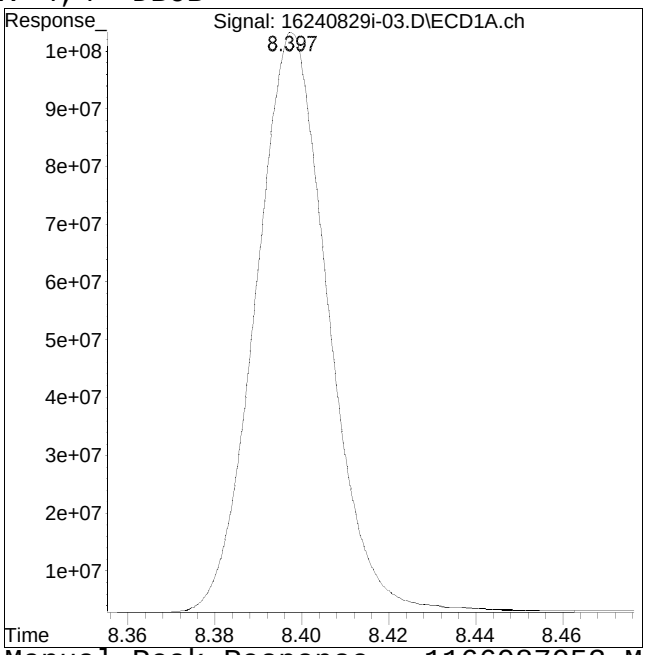


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #1: 4,4'-DBOB



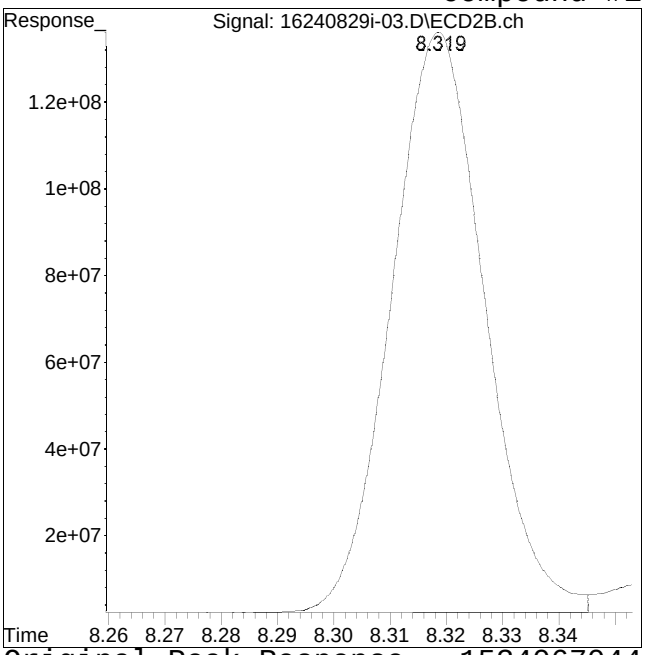


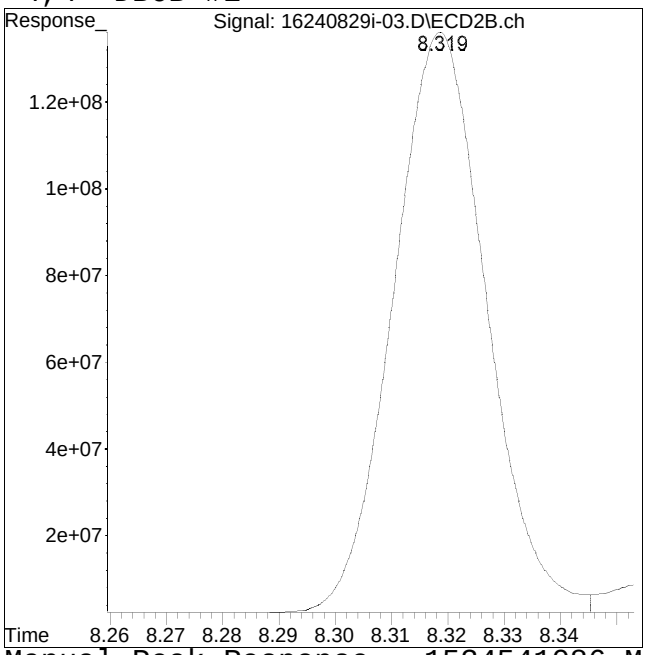
Original Peak Response = 1182839912 Manual Peak Response = 1166087053 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #14: 4,4'-DBOB #2



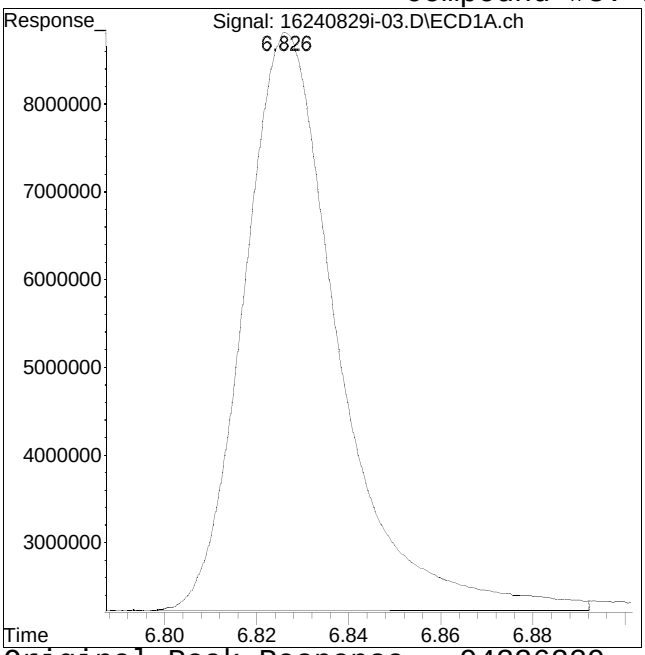


Original Peak Response = 1534067044 Manual Peak Response = 1534541086 M4
M4 = Poor automated baseline construction.

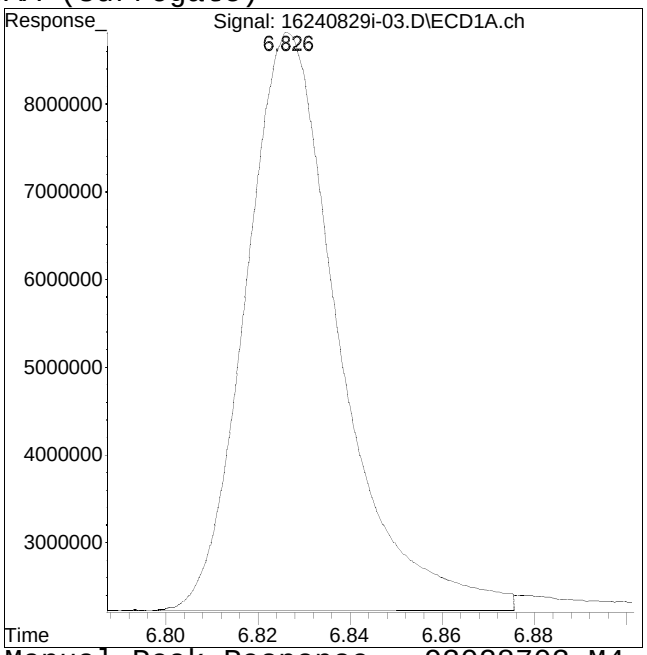
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #3: DCAA (surrogate)



Original Peak Response = 94336239



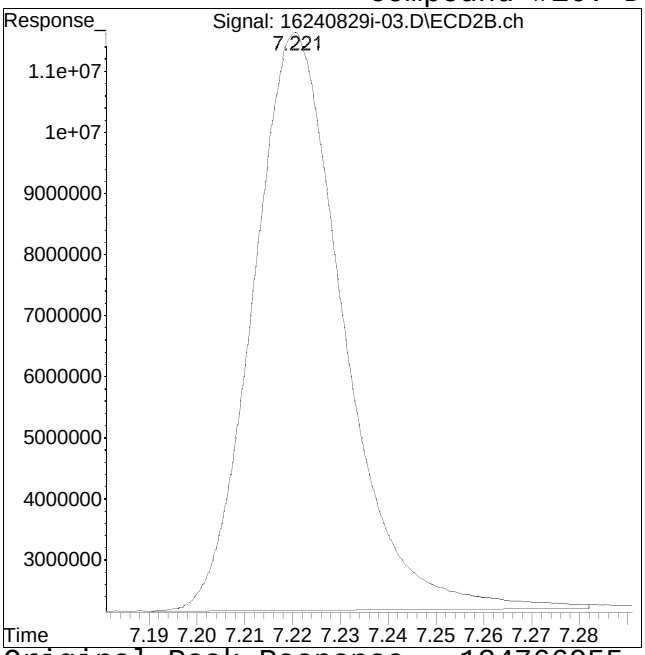
Manual Peak Response = 93028703 M4

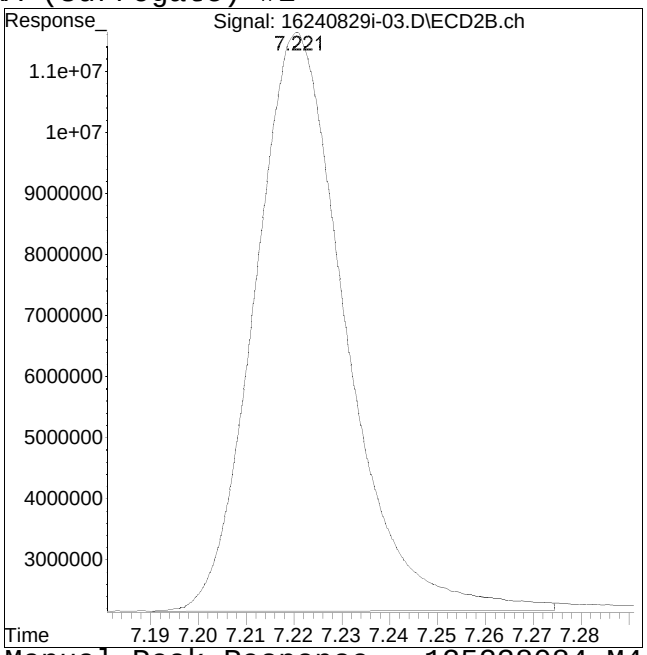
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #16: DCAA (surrogate) #2



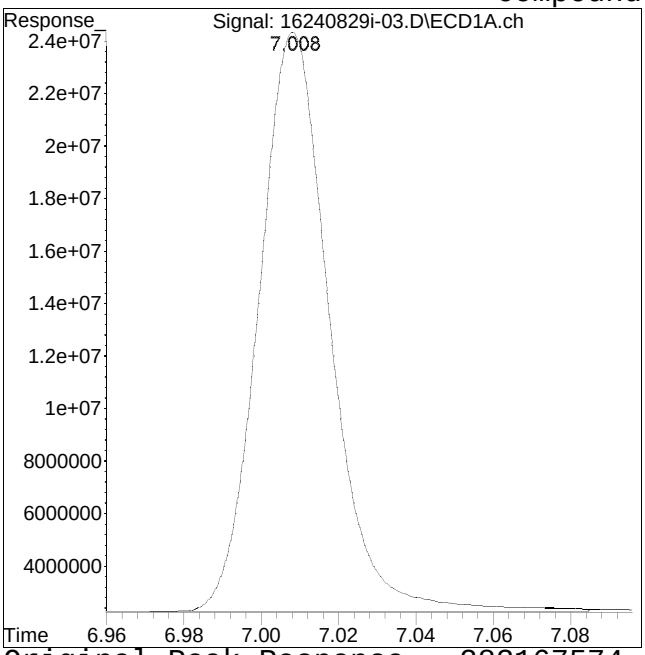


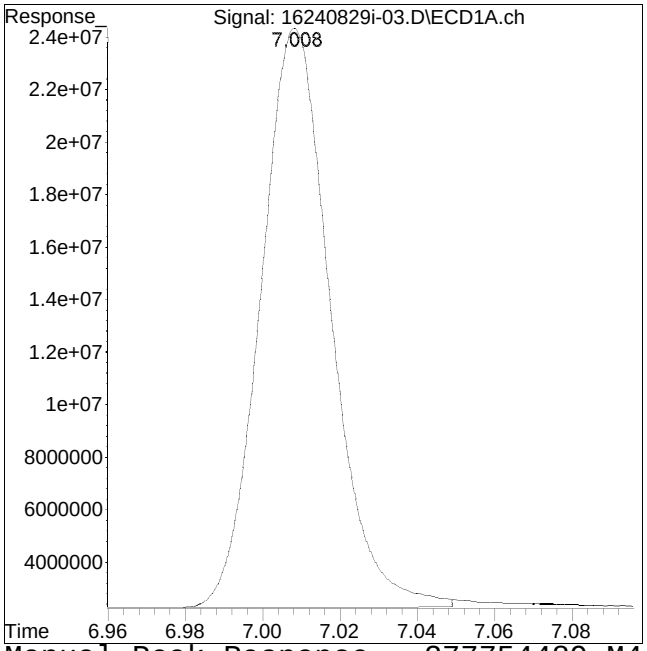
Original Peak Response = 124766955 Manual Peak Response = 125238084 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #4: Dicamba



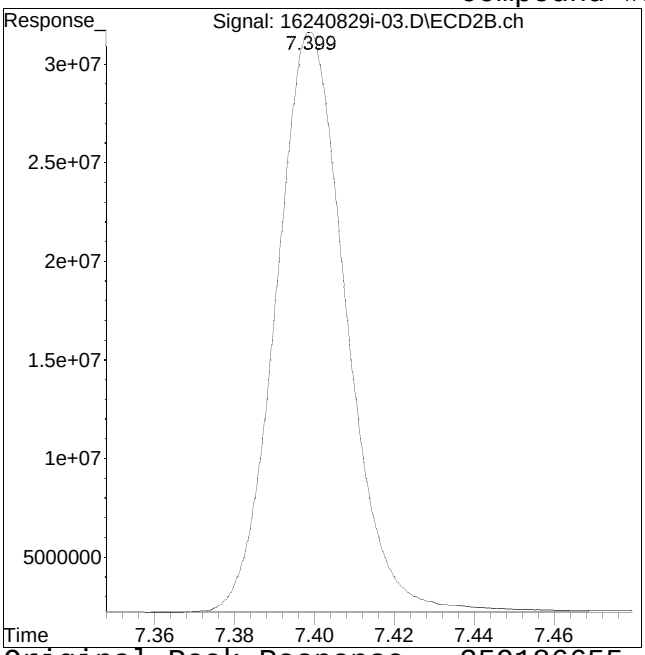


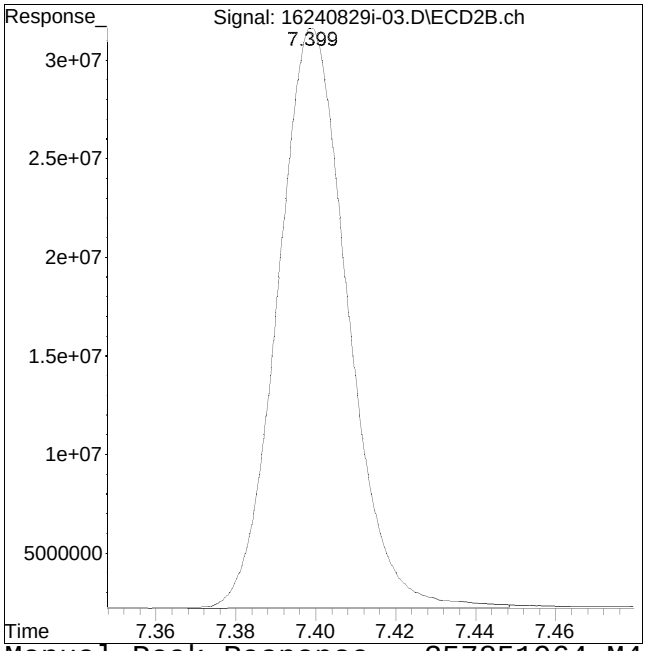
Original Peak Response = 283167574 Manual Peak Response = 277754489 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #17: Dicamba #2



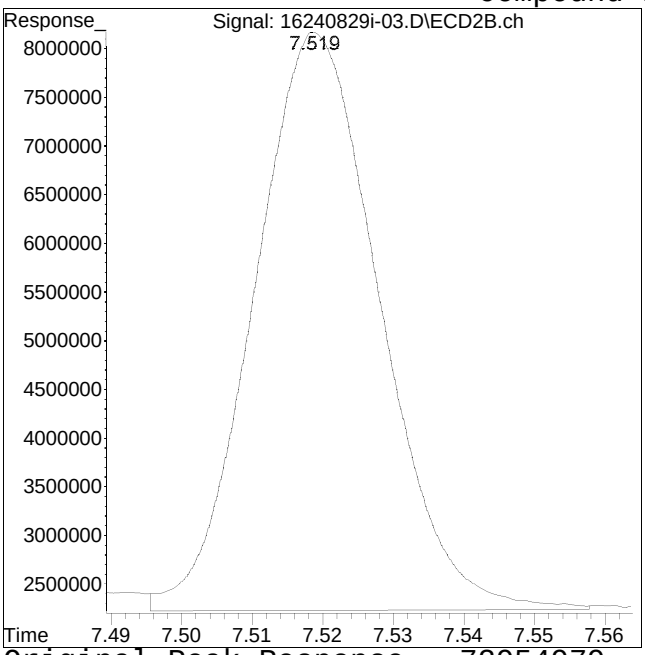


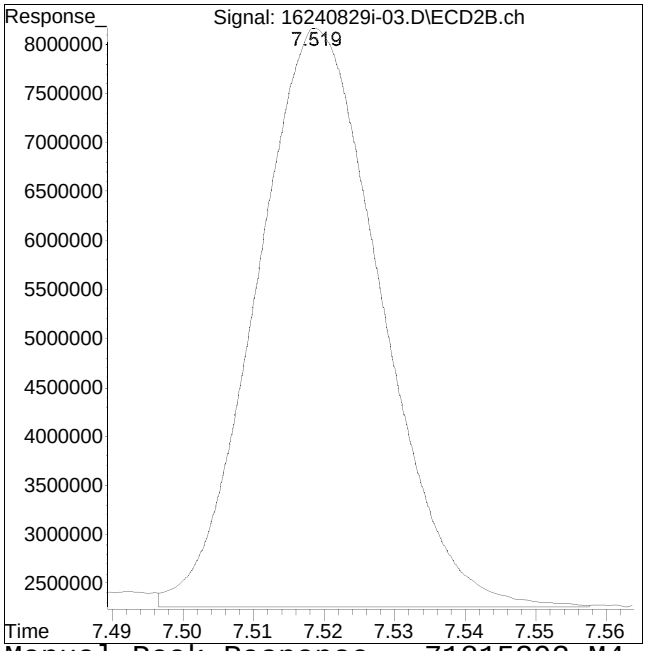
Original Peak Response = 359186655 Manual Peak Response = 357851964 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #18: MCPP #2



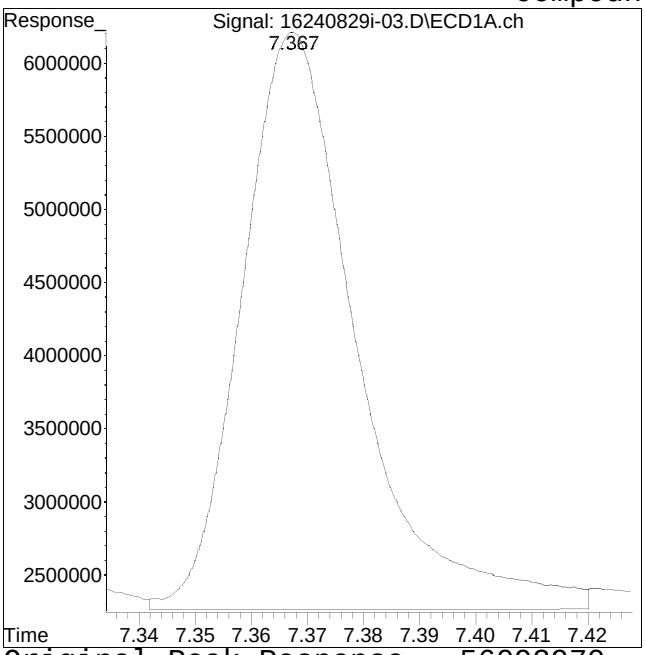


Original Peak Response = 72954979 Manual Peak Response = 71815393 M4
M4 = Poor automated baseline construction.

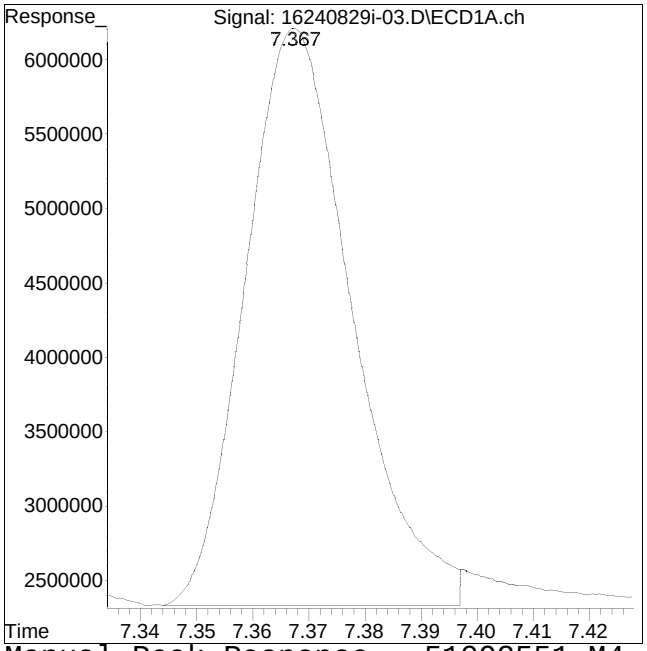
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #6: MCPA



Original Peak Response = 56092970



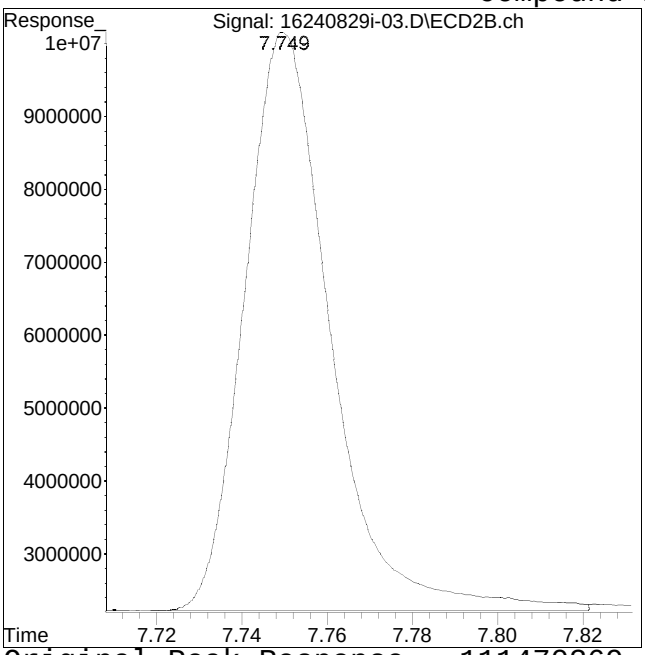
Manual Peak Response = 51092551 M4

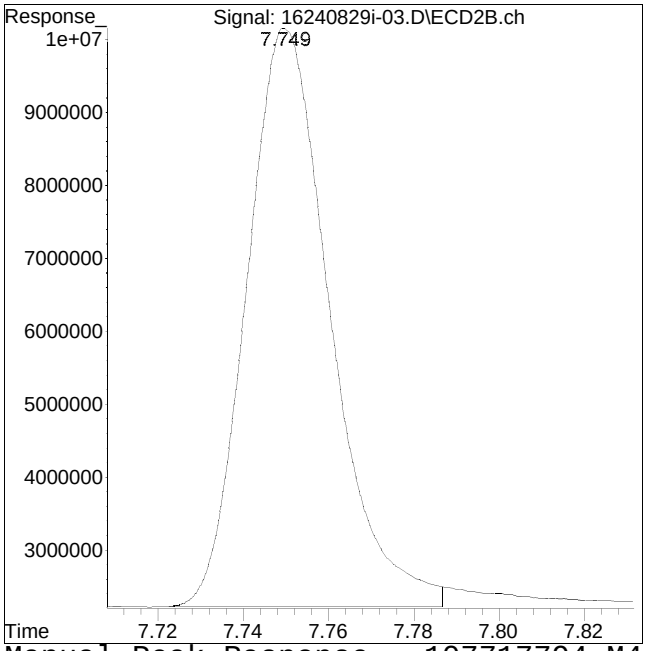
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #19: MCPA #2



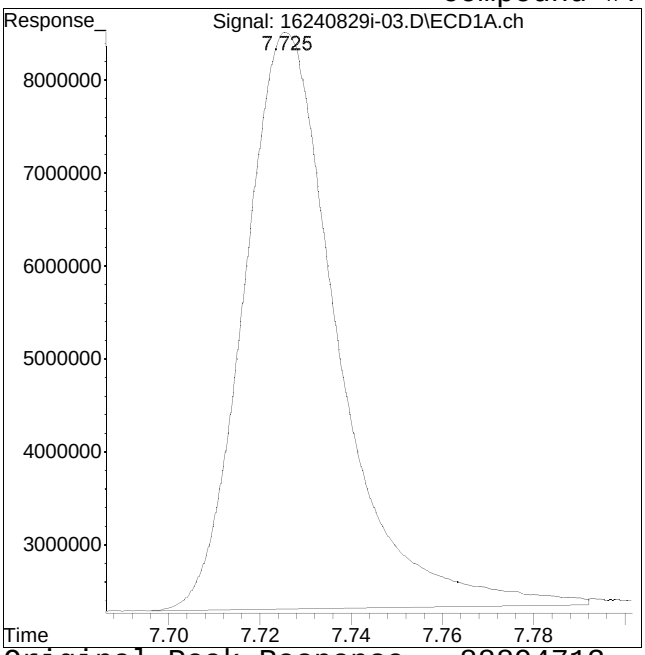


Original Peak Response = 111470369 Manual Peak Response = 107717794 M4
M4 = Poor automated baseline construction.

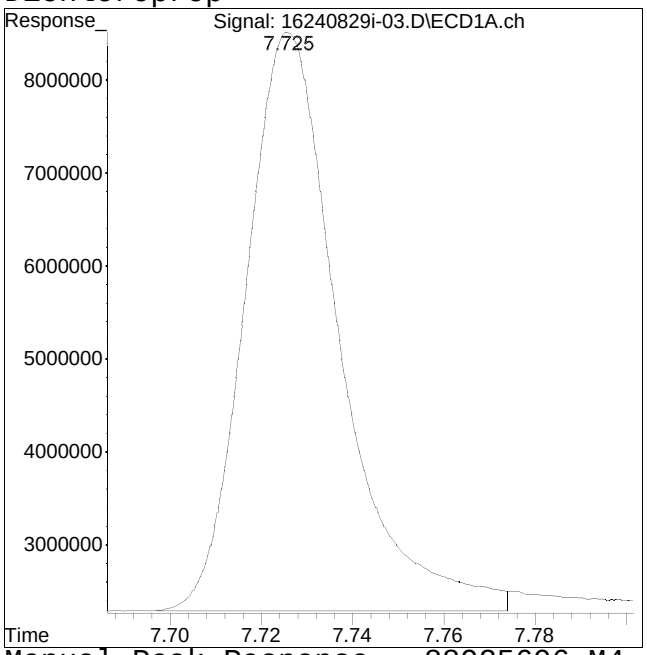
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #7: Dichloroprop



Original Peak Response = 88894713



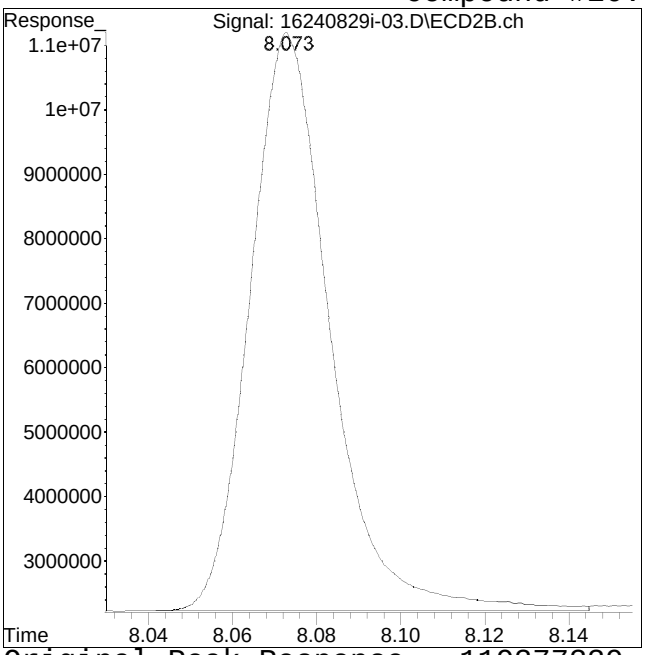
Manual Peak Response = 88925696 M4

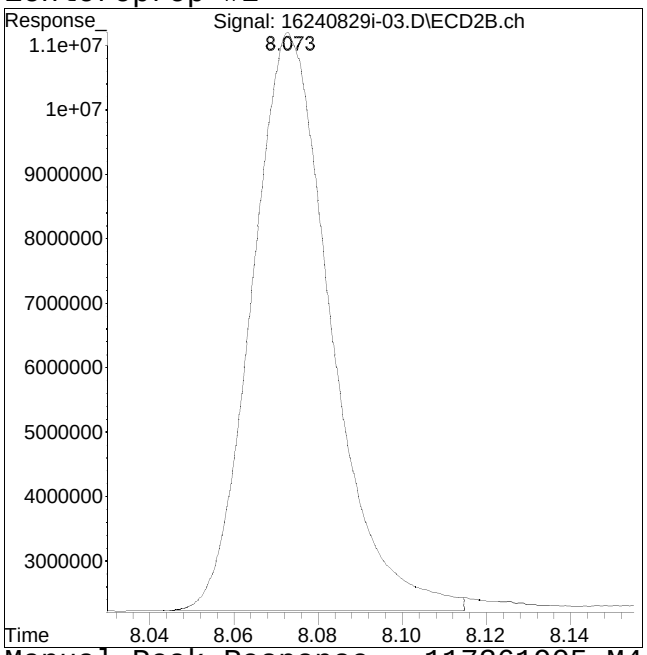
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #20: Dichloroprop #2



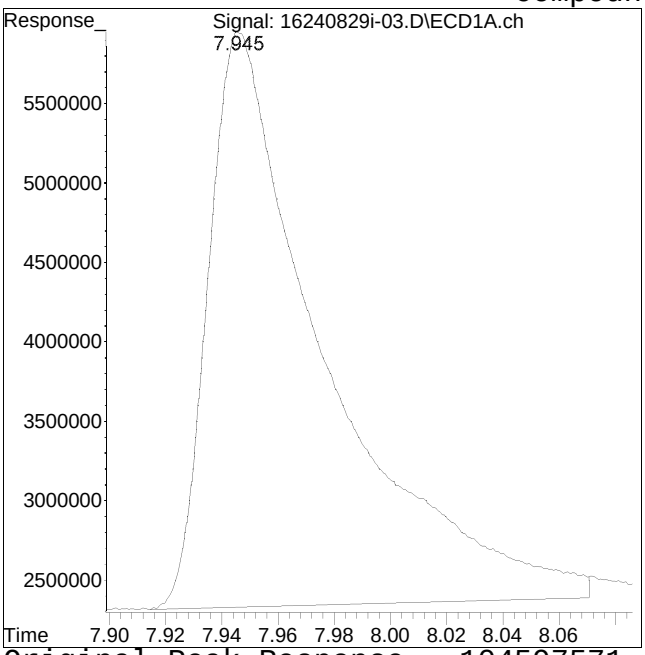


Original Peak Response = 119377339 Manual Peak Response = 117361905 M4
M4 = Poor automated baseline construction.

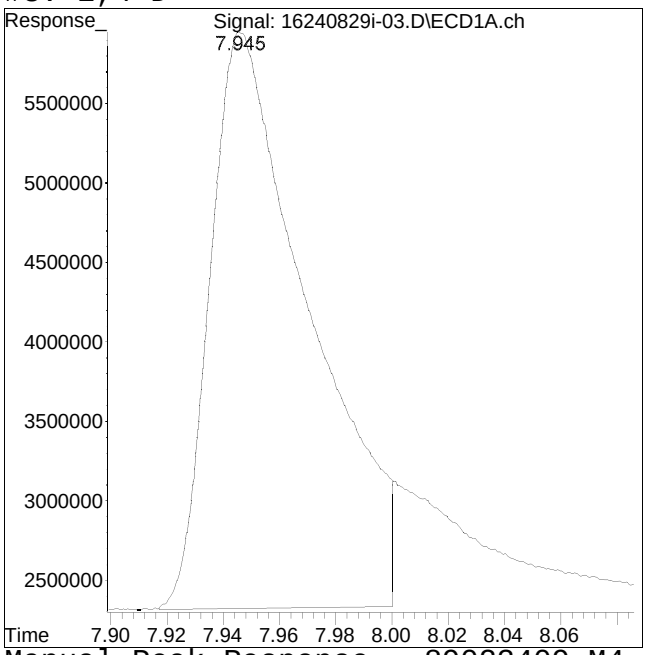
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #8: 2,4-D



Original Peak Response = 104597571



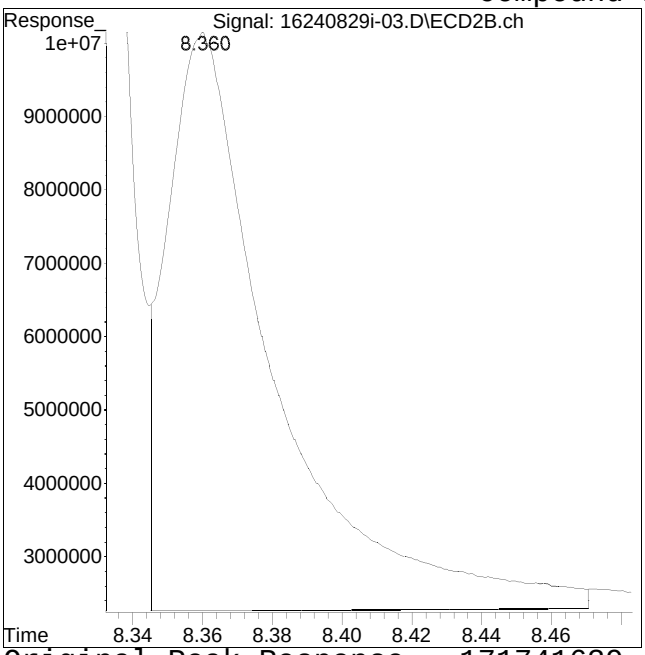
Manual Peak Response = 89023409 M4

M4 = Poor automated baseline construction.

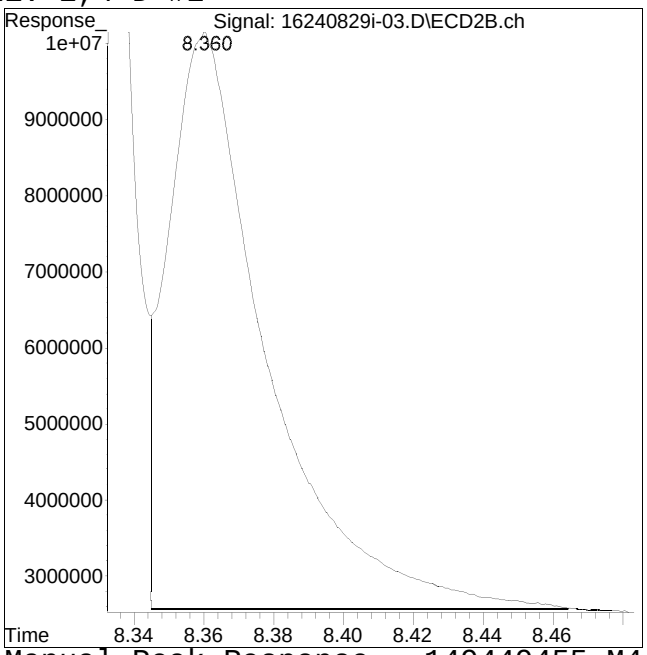
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #21: 2,4-D #2



Original Peak Response = 171741639



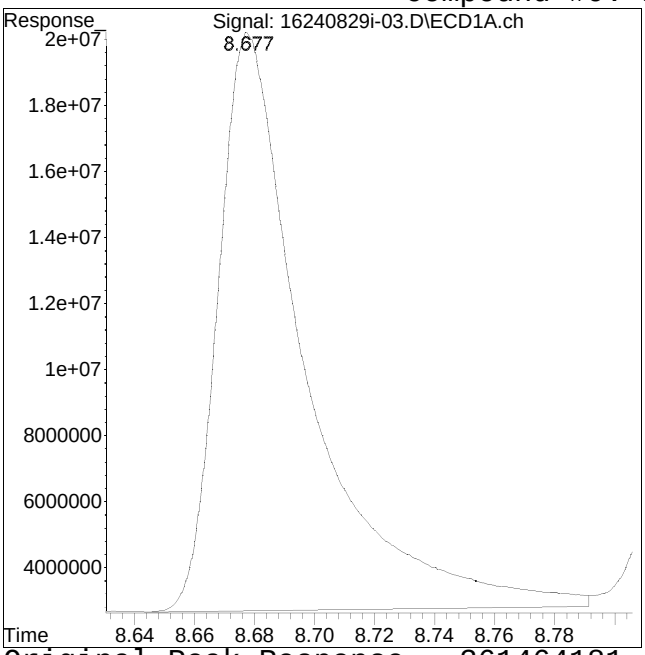
Manual Peak Response = 149449455 M4

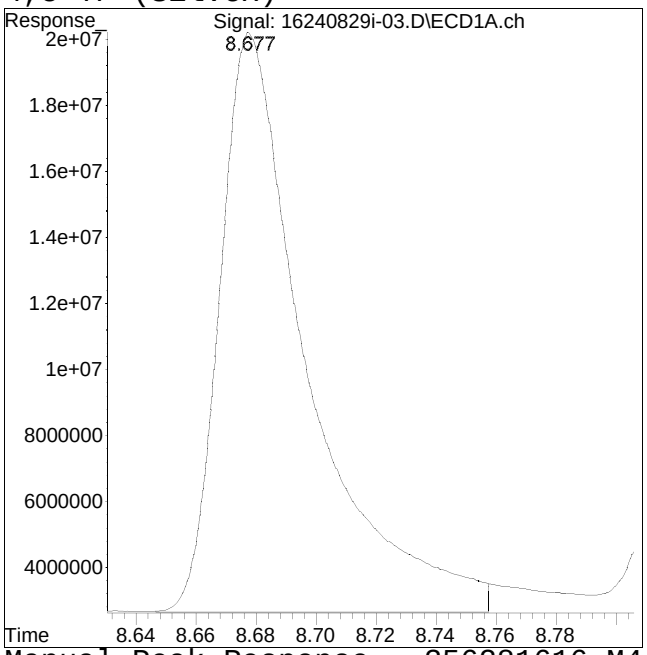
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #9: 2,4,5-TP (Silvex)



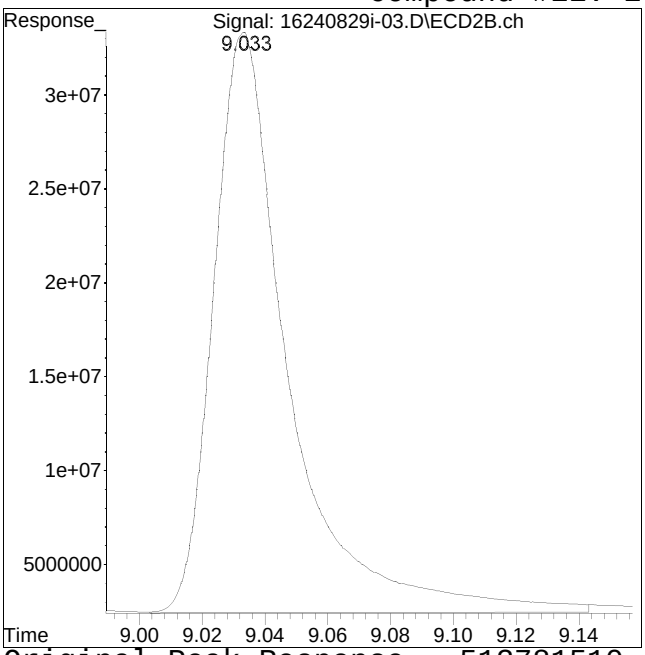


Original Peak Response = 361464181 Manual Peak Response = 356281616 M4
M4 = Poor automated baseline construction.

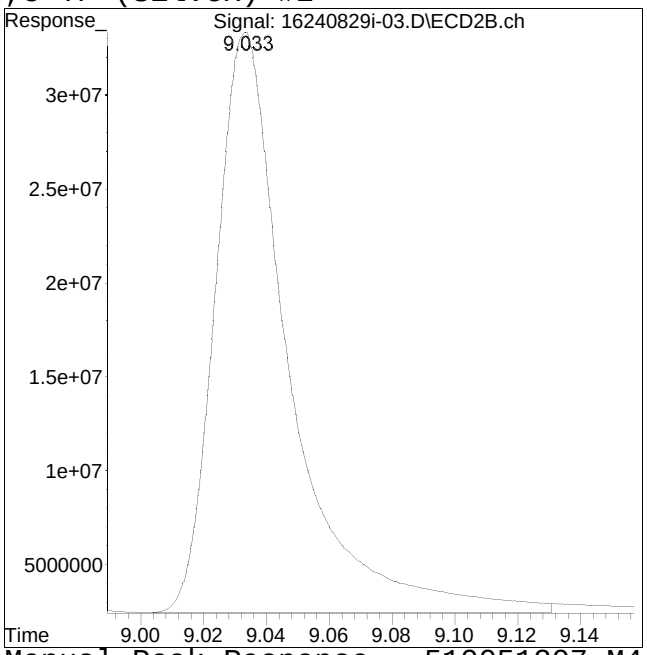
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 513781510



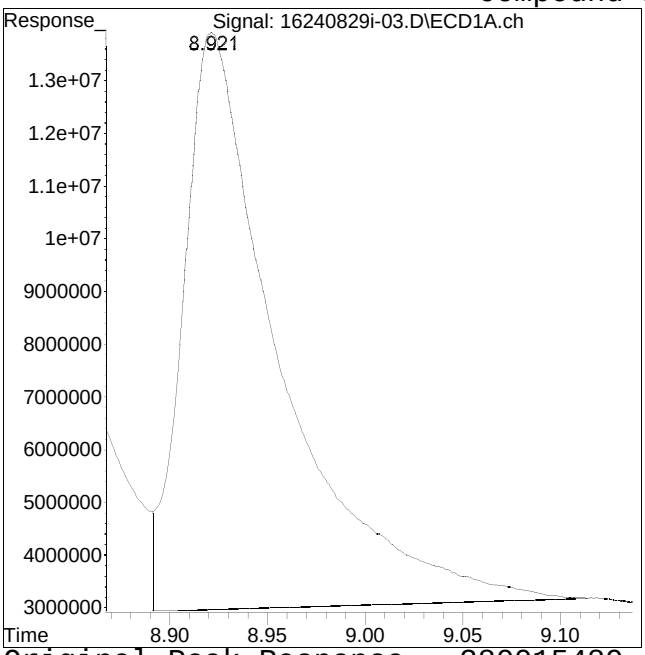
Manual Peak Response = 510051207 M4

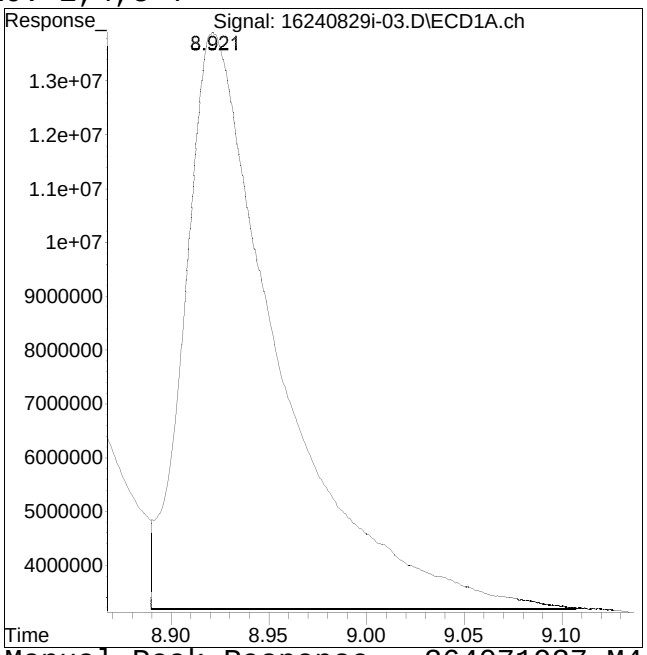
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #10: 2,4,5-T



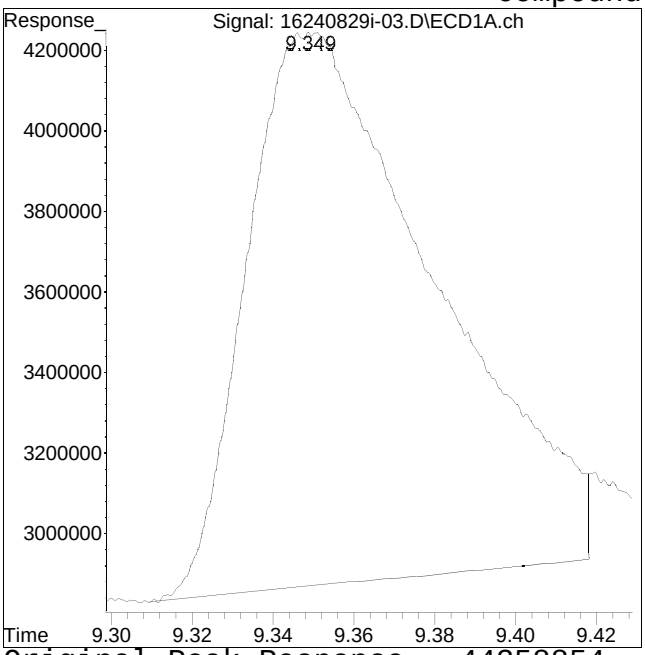


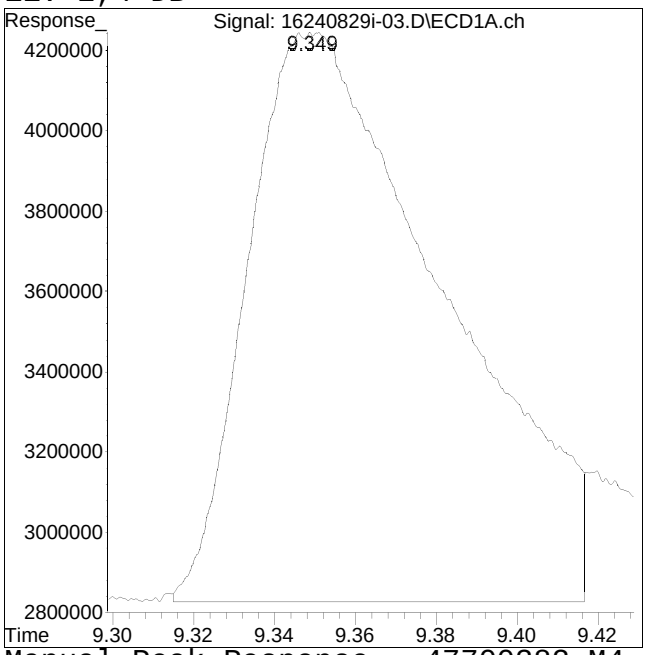
Original Peak Response = 380015489 Manual Peak Response = 364071937 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #11: 2,4-DB



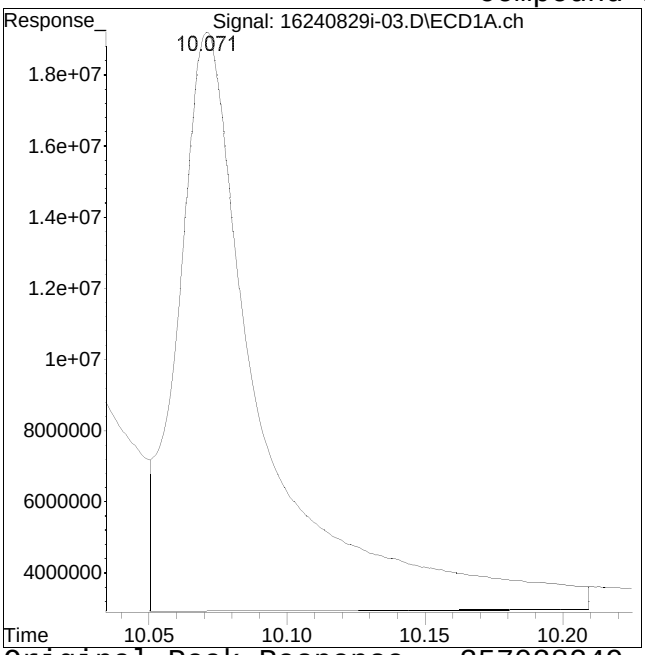


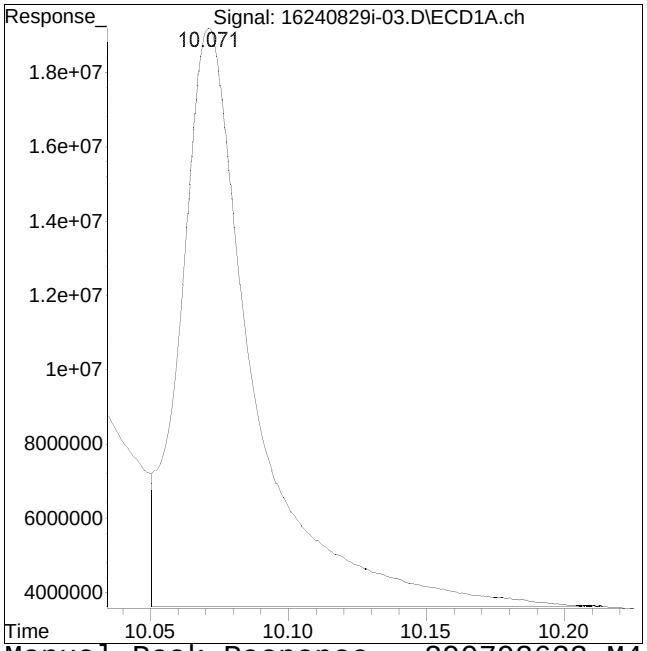
Original Peak Response = 44358854 Manual Peak Response = 47700382 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-03.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:07 pm Instrument : PEST16
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 8/30/2024 9:14 am

Compound #12: Dinoseb





Original Peak Response = 357028249 Manual Peak Response = 290793623 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:26 pm
Operator : pest16:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:58:52 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.395	8.317	1132.0E6	1478.6E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.823	7.218	167.8E6	220.9E6	0.196M4	0.200
		Spiked Amount	0.500	Range 30 - 150		Recovery =	39.20%	40.00%
		Target Compounds						
2)	t	Dalapon	1.819	1.776	172.5E6	214.1E6	0.183	0.188
4)	t	Dicamba	7.004	7.397	514.2E6	647.3E6	0.192M4	0.196M4
5)	t	MCPP	7.215	7.517	56709720	121.9E6	18.848M4	20.546M4
6)	t	MCPA	7.364	7.748	96146427	178.2E6	19.320M4	20.548M4
7)	t	Dichloroprop	7.722	8.071	160.4E6	209.7E6	0.196M4	0.200
8)	t	2,4-D	7.941	8.355	178.4E6	262.5E6	0.190	0.201M4
9)	t	2,4,5-TP (Si	8.674	9.029	684.2E6	940.7E6	0.195M4	0.199M4
10)	t	2,4,5-T	8.910	9.333	673.8E6	686.6E6	0.197M4	0.190M4
11)	t	2,4-DB	9.335	9.707	95308933	137.2E6	0.197	0.199
12)	t	Dinoseb	10.067	9.917	596.6E6	523.4E6	0.235M4	0.197M4

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:26 pm
Operator : pest16:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:58:52 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

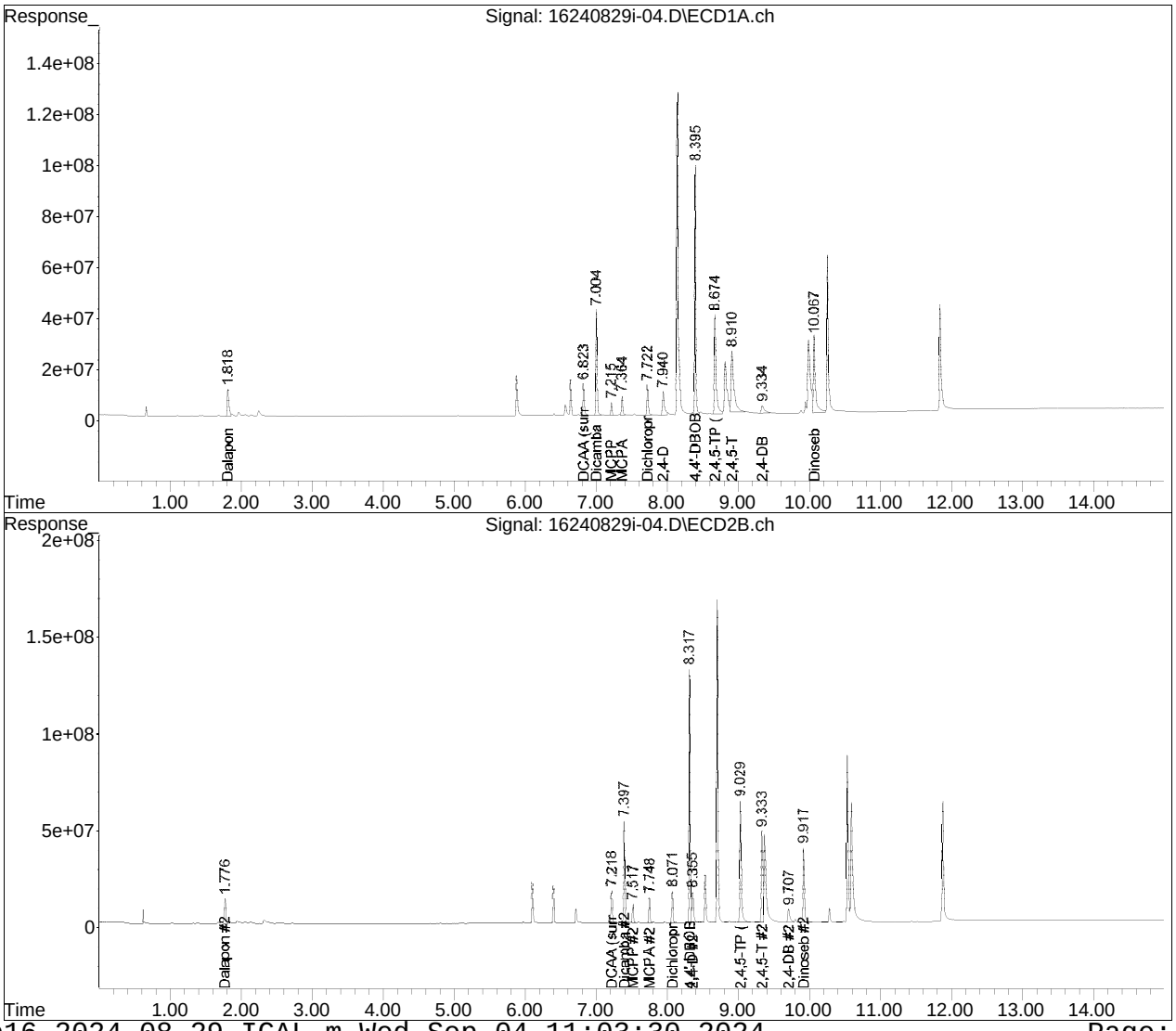
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:26 pm
Operator : pest16:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:58:52 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

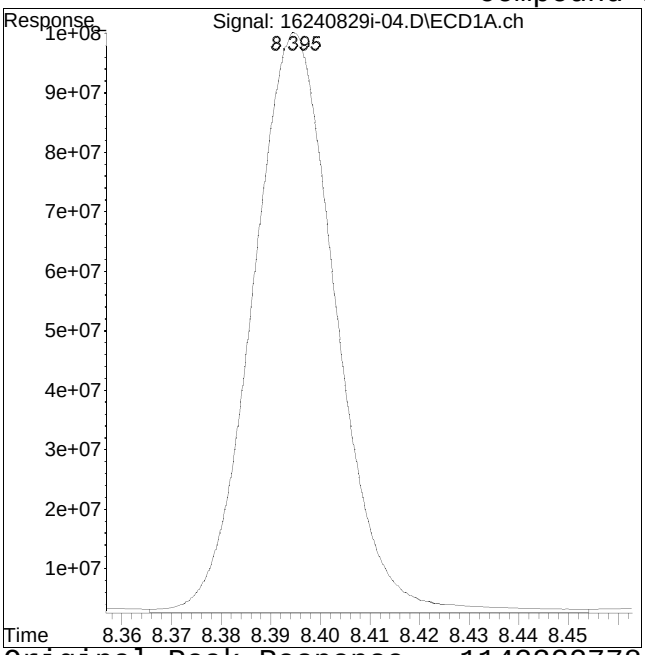
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

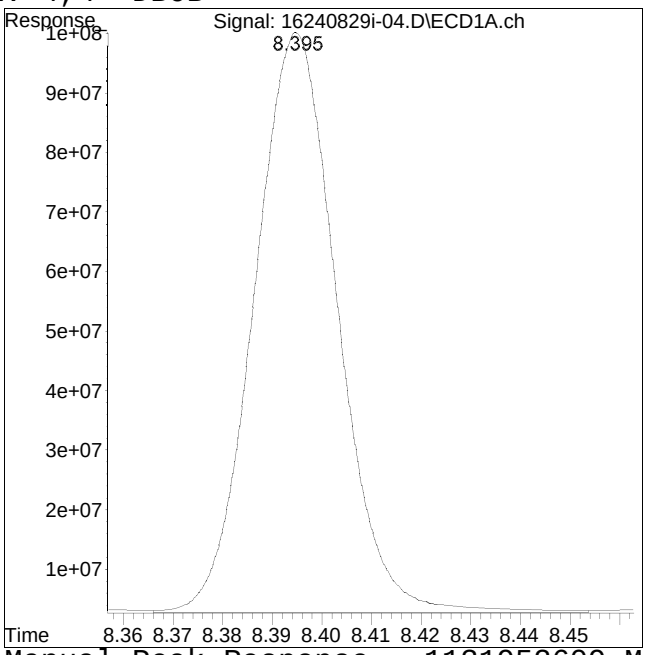


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #1: 4,4'-DBOB



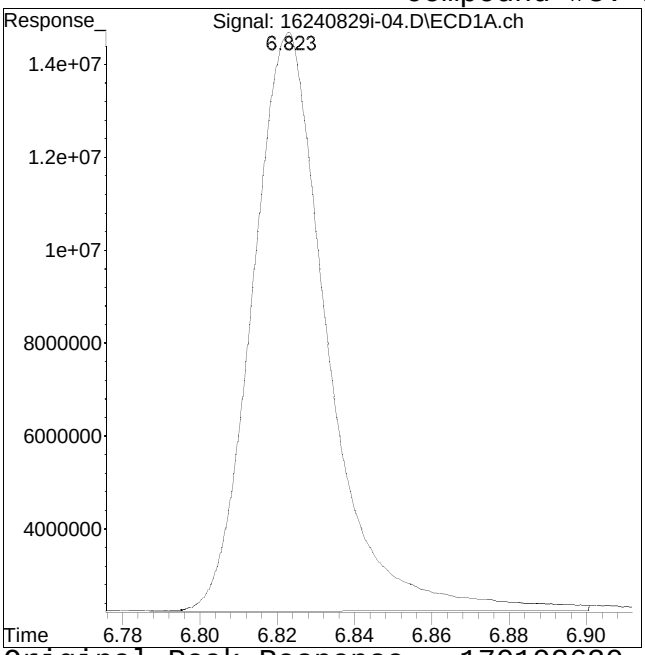


Original Peak Response = 1142322778 Manual Peak Response = 1131952609 M4
M4 = Poor automated baseline construction.

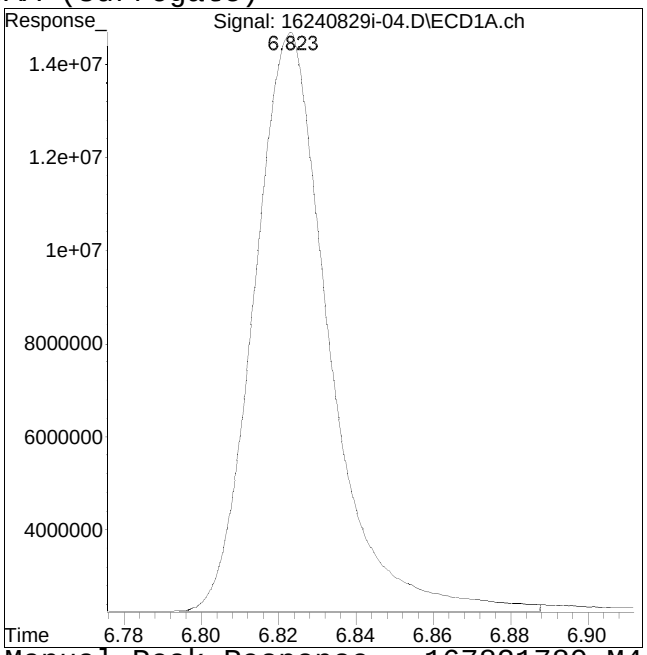
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #3: DCAA (surrogate)



Original Peak Response = 170102630



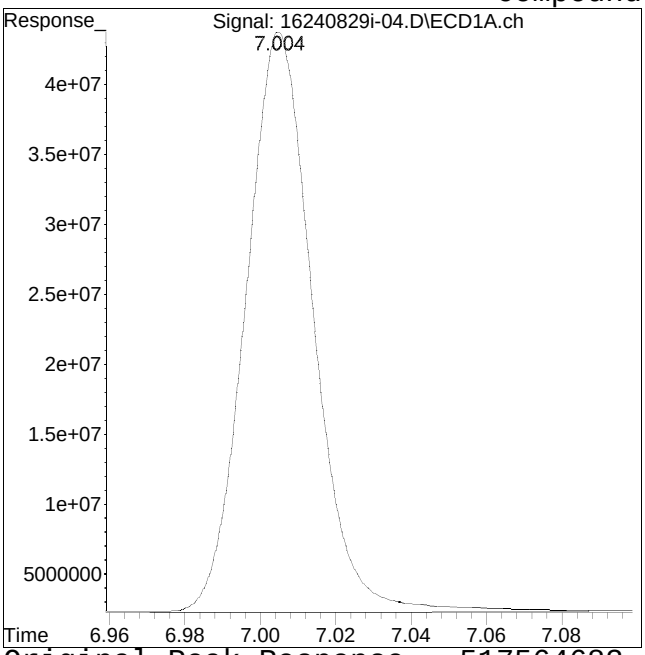
Manual Peak Response = 167821780 M4

M4 = Poor automated baseline construction.

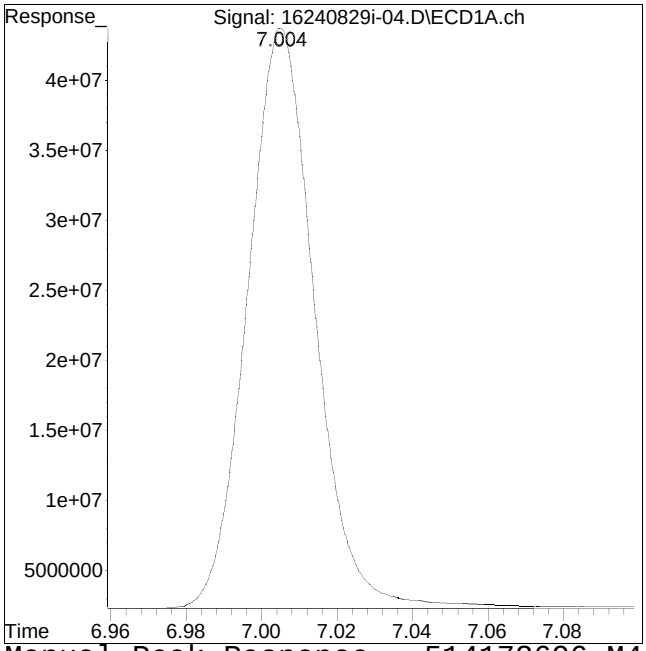
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #4: Dicamba



Original Peak Response = 517564683



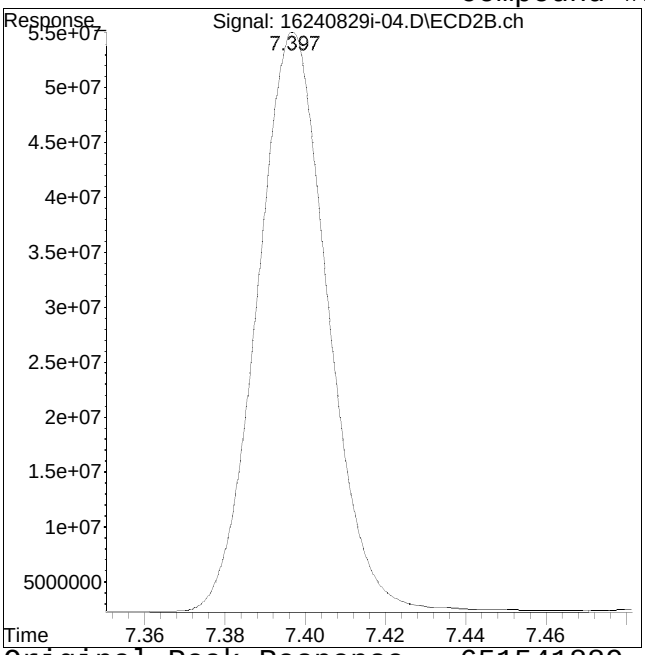
Manual Peak Response = 514172696 M4

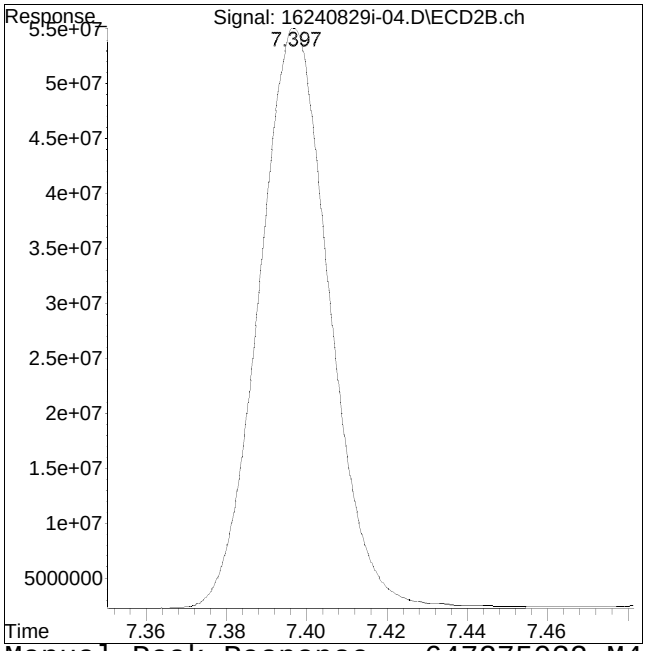
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #17: Dicamba #2



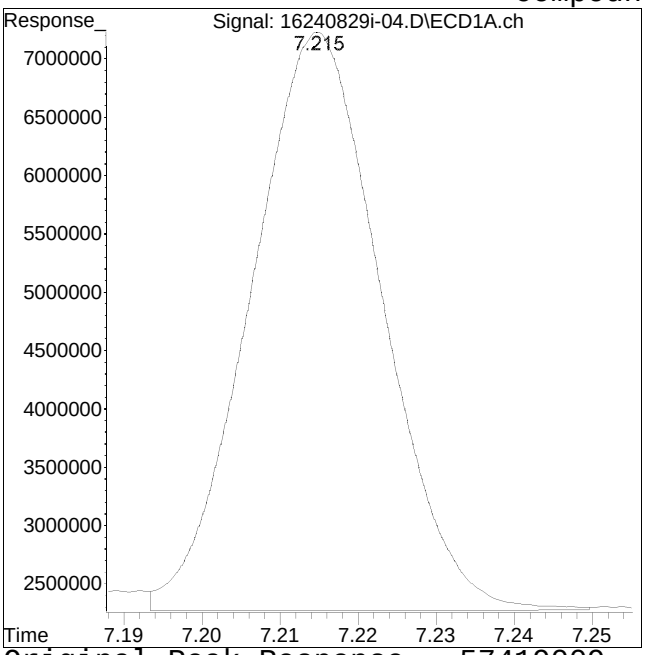


Original Peak Response = 651541889 Manual Peak Response = 647275032 M4
M4 = Poor automated baseline construction.

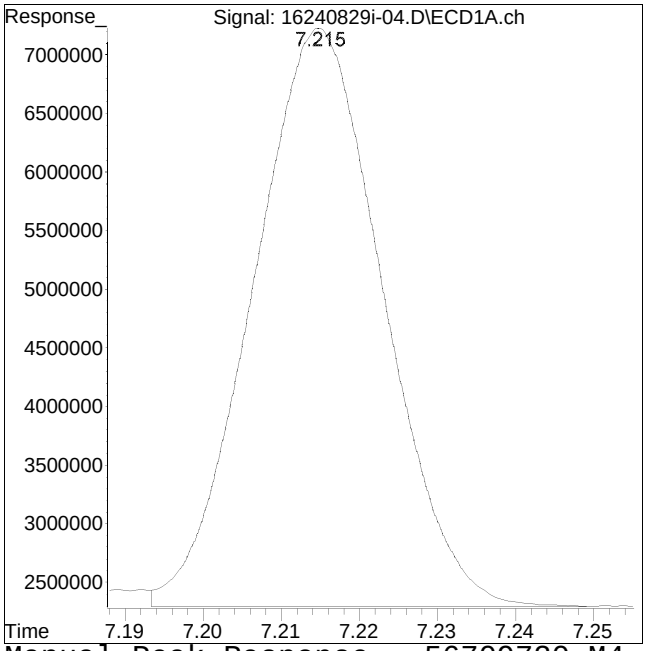
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #5: MCPP



Original Peak Response = 57419009



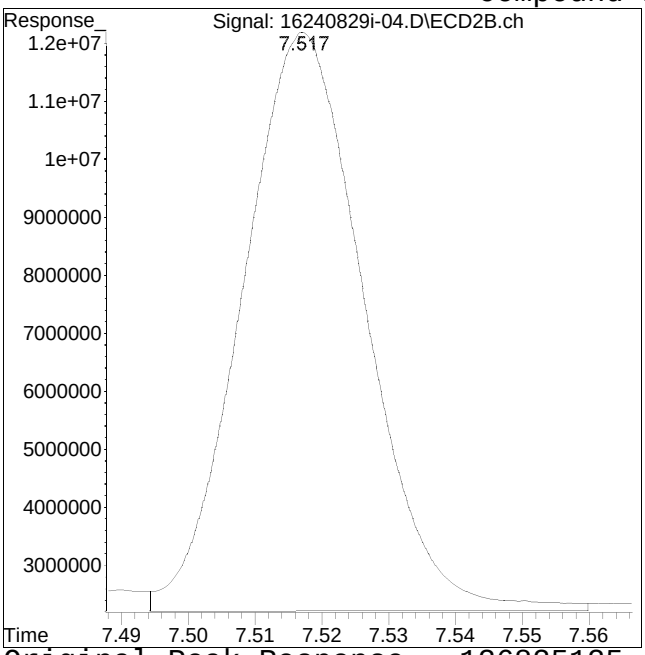
Manual Peak Response = 56709720 M4

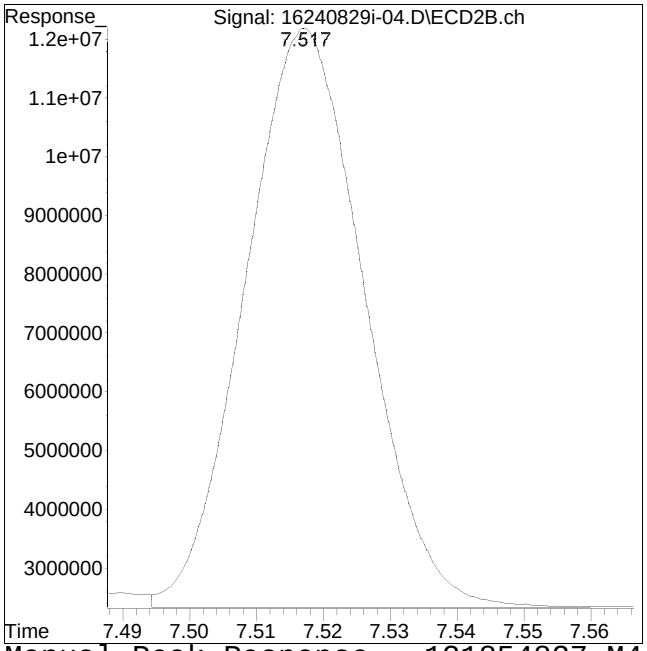
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #18: MCPP #2



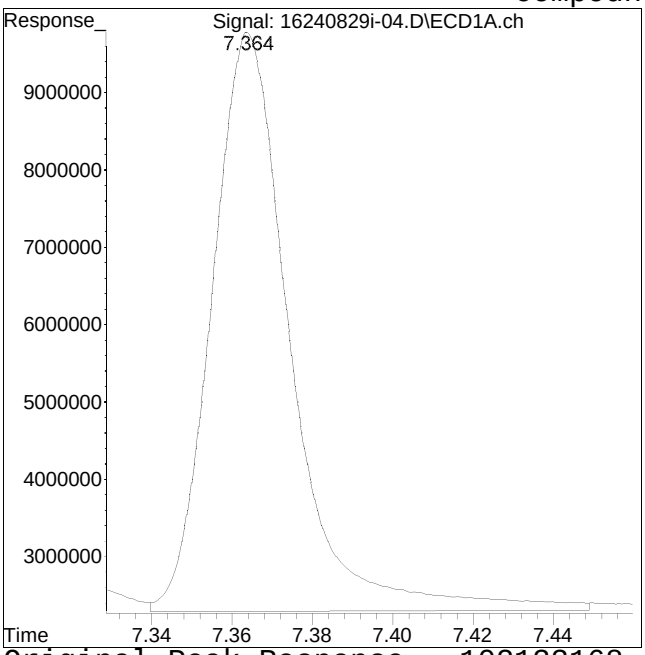


Original Peak Response = 126825125 Manual Peak Response = 121854827 M4
M4 = Poor automated baseline construction.

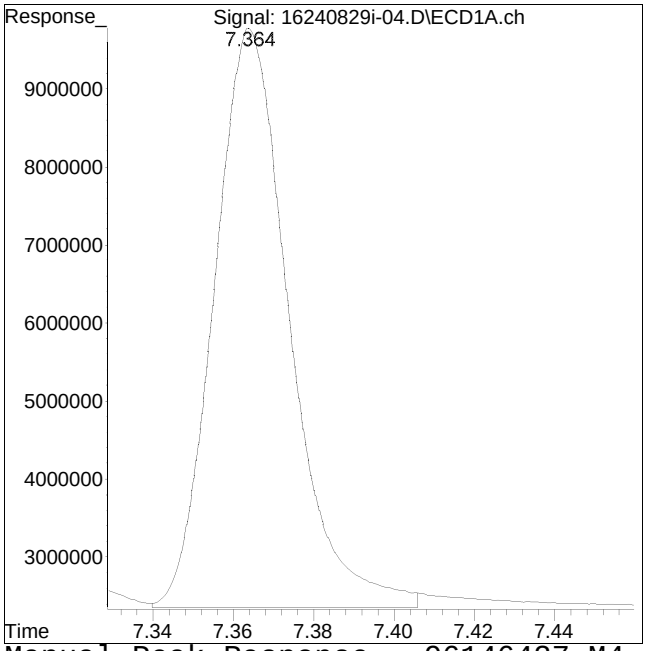
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #6: MCPA



Original Peak Response = 102133168



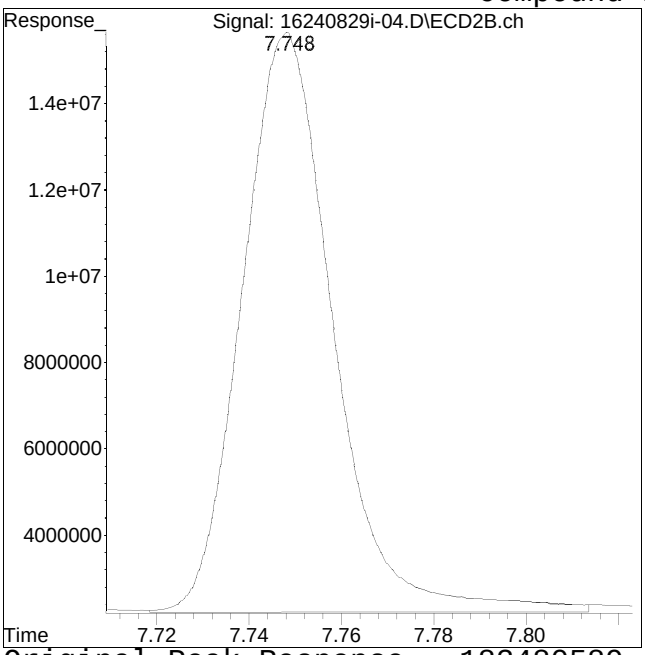
Manual Peak Response = 96146427 M4

M4 = Poor automated baseline construction.

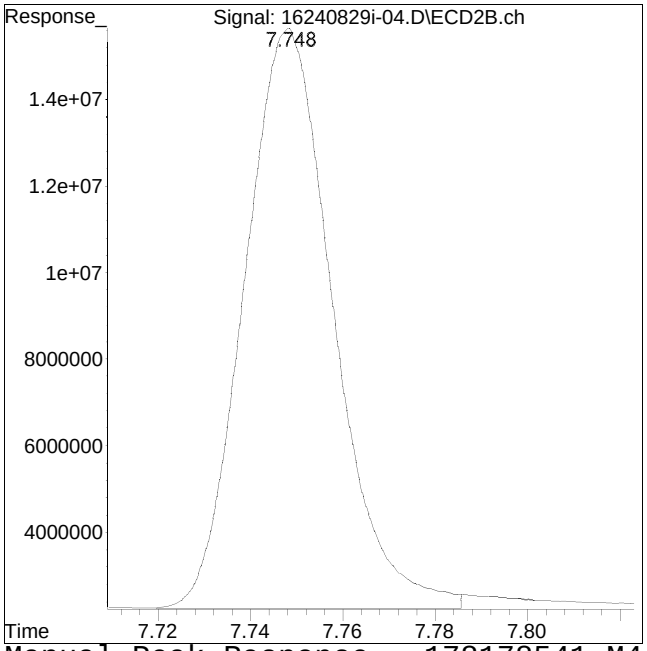
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #19: MCPA #2



Original Peak Response = 183480589



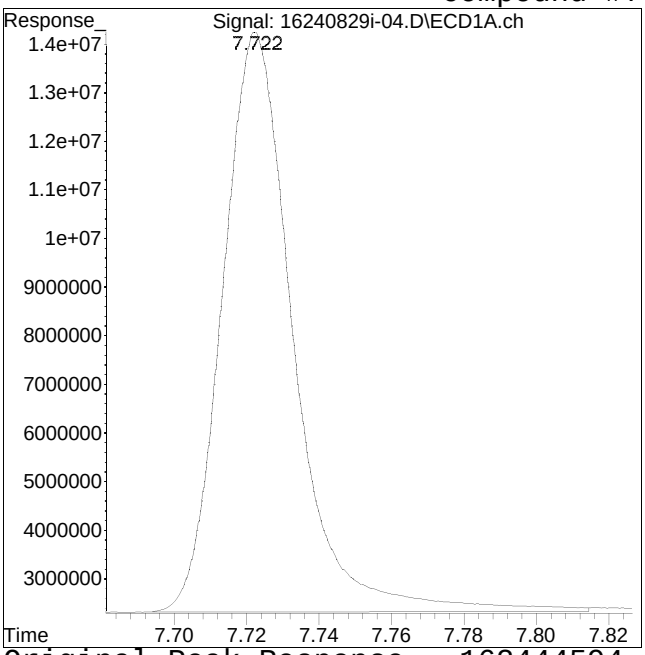
Manual Peak Response = 178178541 M4

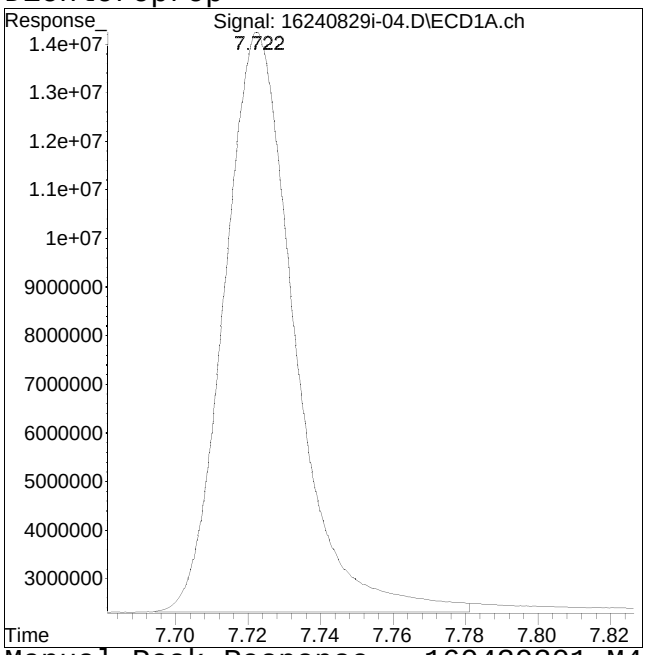
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #7: Dichloroprop



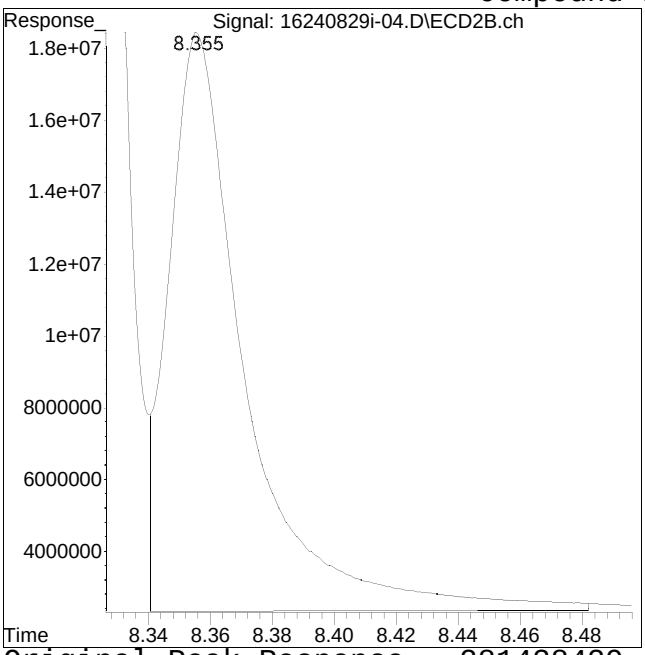


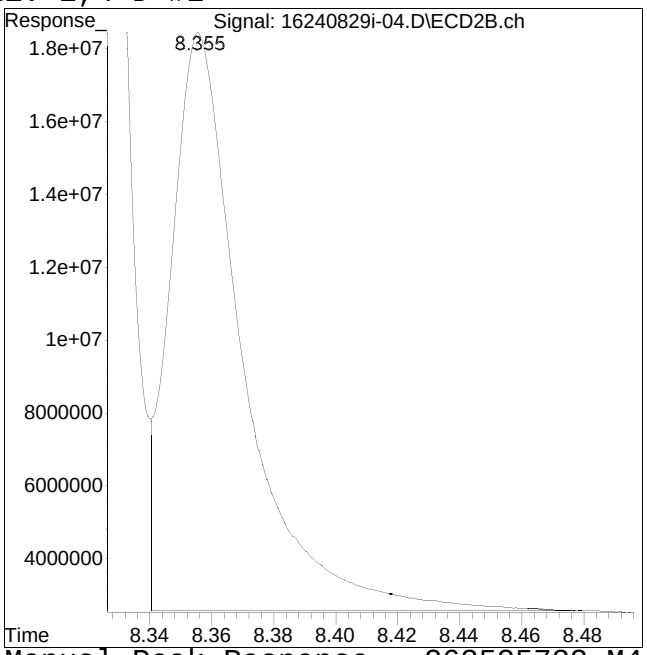
Original Peak Response = 162444594 Manual Peak Response = 160439301 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #21: 2,4-D #2



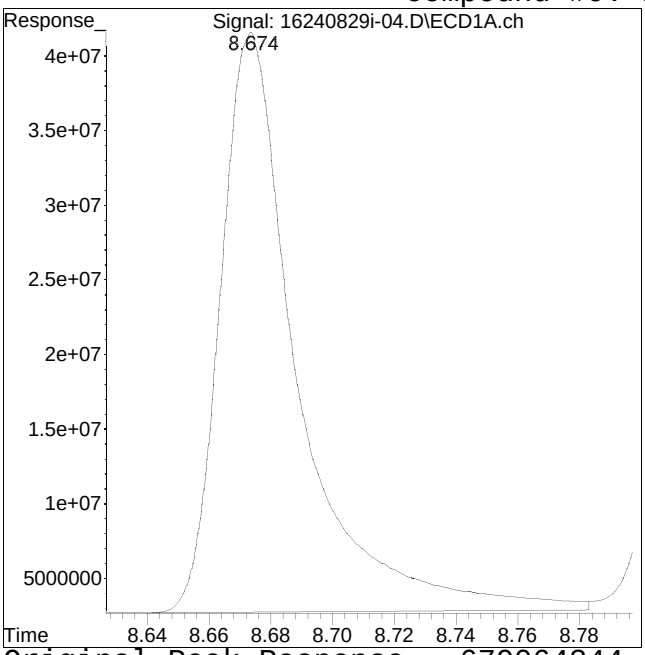


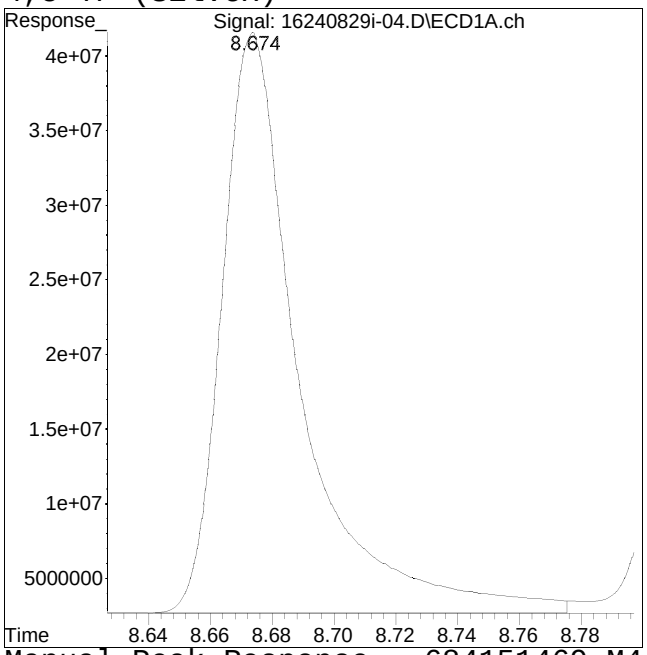
Original Peak Response = 281438429 Manual Peak Response = 262525722 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #9: 2,4,5-TP (Silvex)



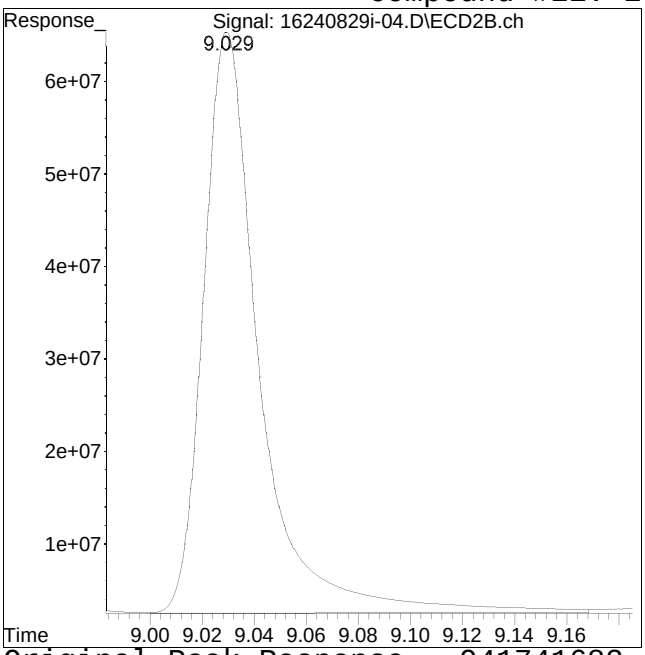


Original Peak Response = 679064344 Manual Peak Response = 684151469 M4
M4 = Poor automated baseline construction.

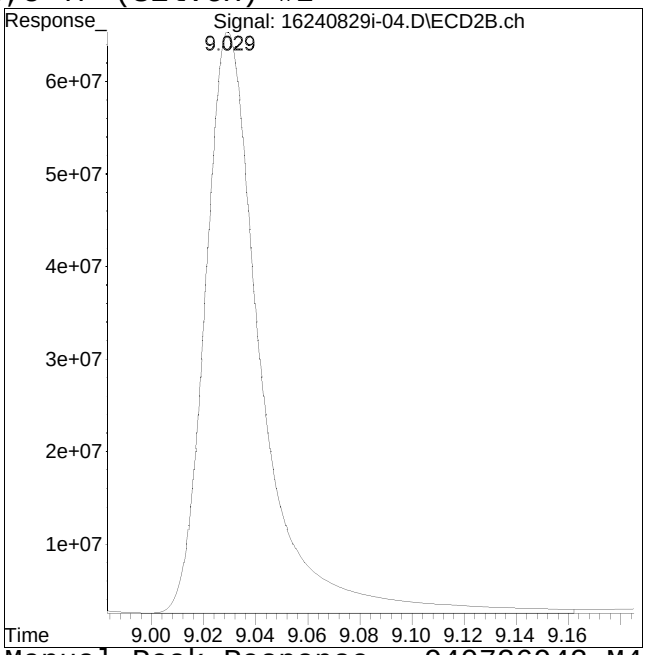
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 941741682



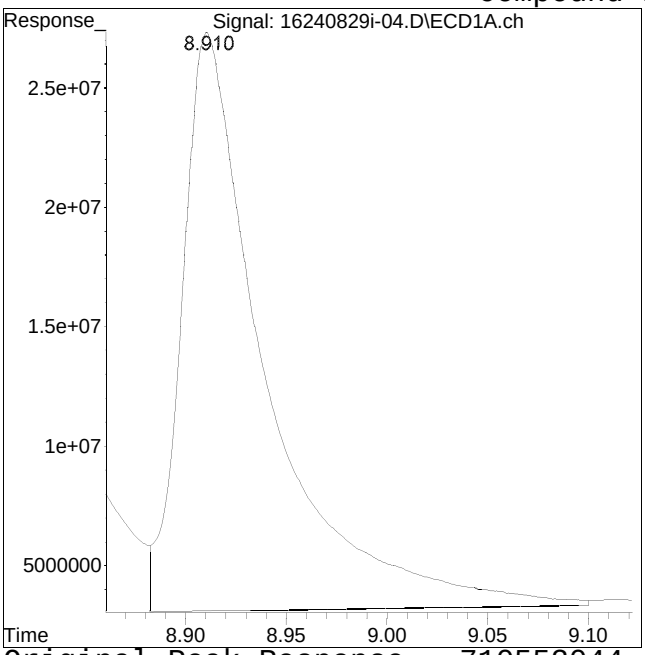
Manual Peak Response = 940726942 M4

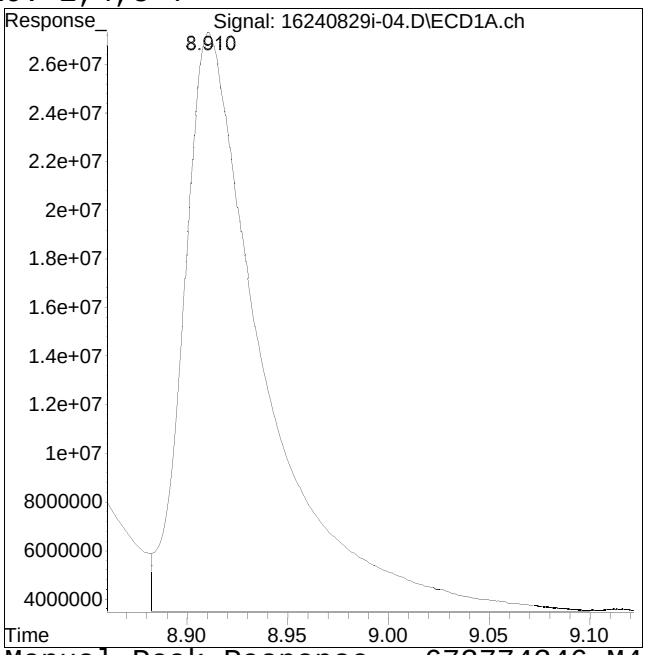
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #10: 2,4,5-T



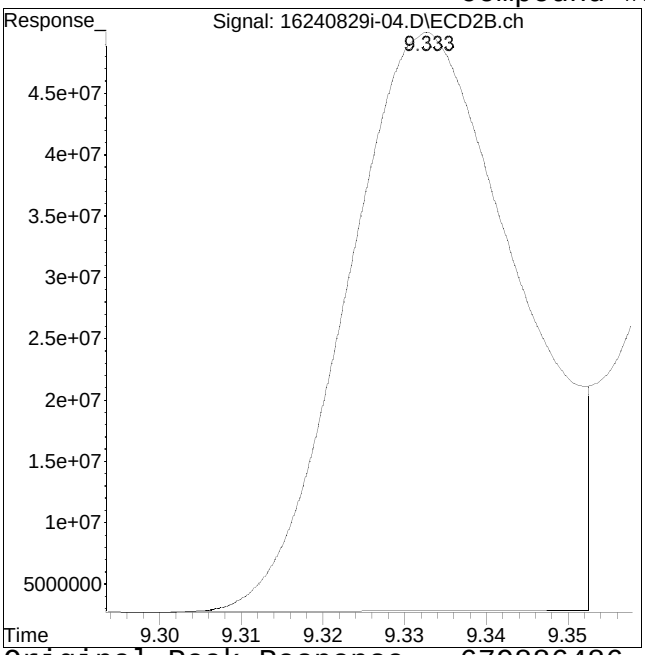


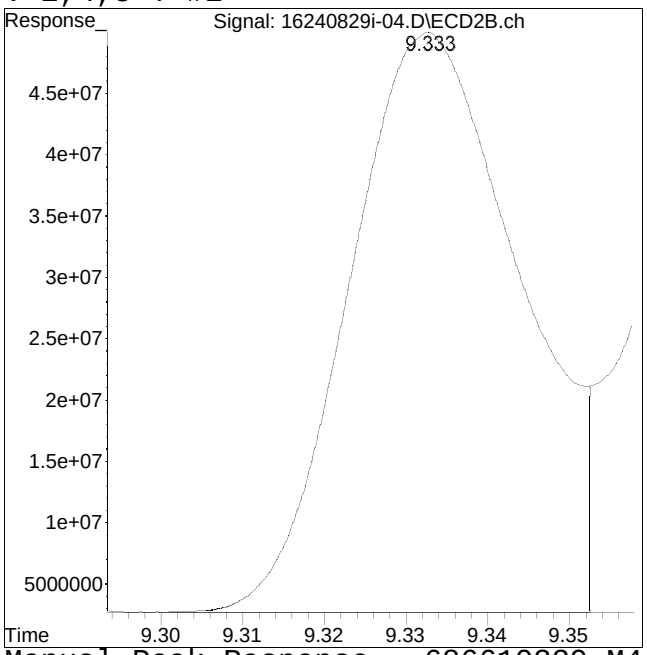
Original Peak Response = 710552044 Manual Peak Response = 673774346 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #23: 2,4,5-T #2



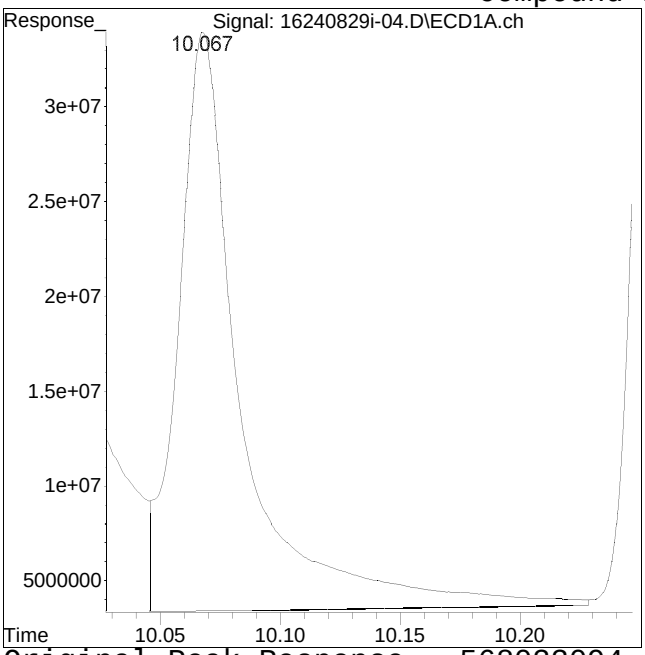


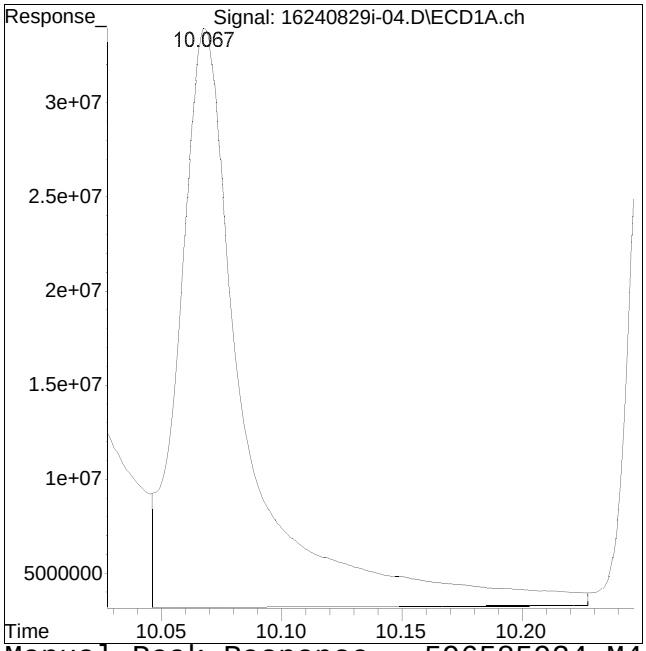
Original Peak Response = 679886486 Manual Peak Response = 686610329 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #12: Dinoseb



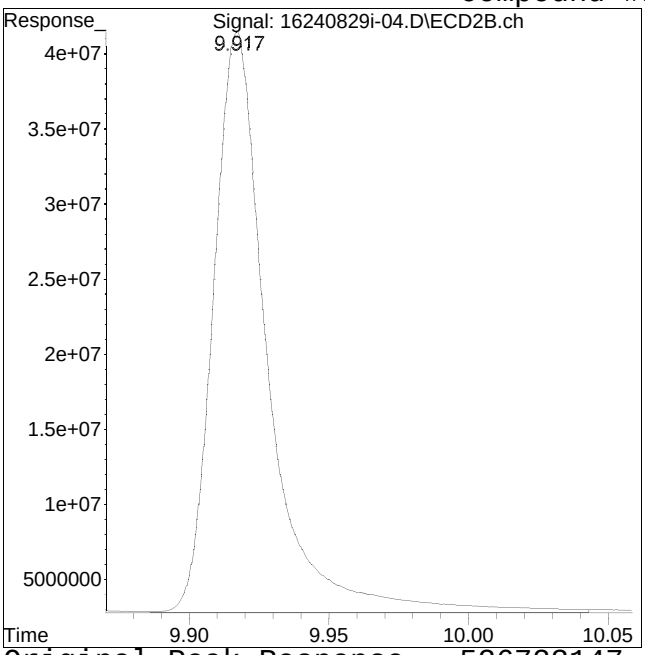


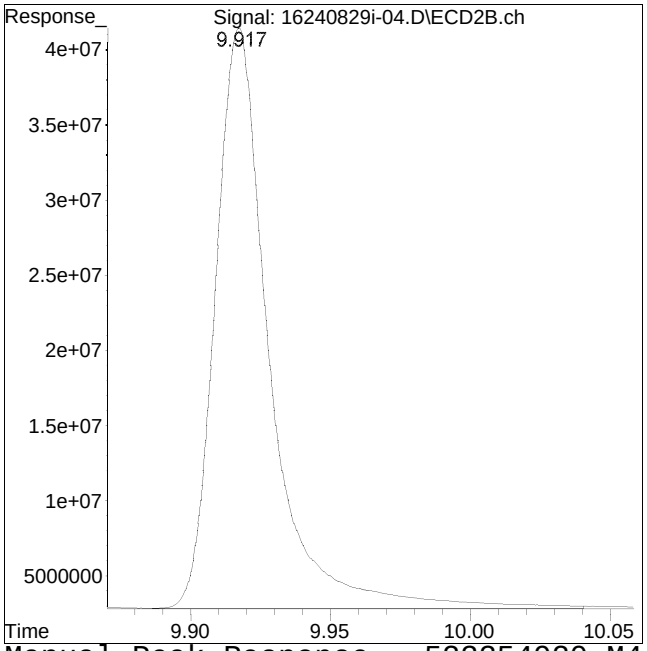
Original Peak Response = 568033094 Manual Peak Response = 596585924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-04.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:26 pm Instrument : PEST16
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 8/30/2024 8:58 am

Compound #25: Dinoseb #2





Original Peak Response = 526723147 Manual Peak Response = 523354920 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:46 pm
Operator : pest16:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:59:01 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.394	8.315	1081.2E6	1401.2E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.821	7.217	358.3E6	462.2E6	0.437M4	0.441M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	87.40%	88.20%
		Target Compounds						
2)	t	Dalapon	1.821	1.778	394.5E6	475.5E6	0.439M3	0.440M3
4)	t	Dicamba	7.004	7.395	1143.5E6	1403.4E6	0.447M4	0.449M4
5)	t	MCPP	7.215	7.517	130.9E6	239.6E6	45.549M3	42.635M4
6)	t	MCPA	7.363	7.747	206.2E6	342.1E6	43.372M4	41.631M4
7)	t	Dichloroprop	7.721	8.069	340.1E6	439.0E6	0.436M4	0.441M4
8)	t	2,4-D	7.937	8.353	407.1E6	543.9E6	0.453M4	0.439M4
9)	t	2,4,5-TP (Si	8.671	9.027	1497.5E6	2025.7E6	0.448M4	0.452M4
10)	t	2,4,5-T	8.902	9.327	1456.1E6	1632.8E6	0.445M3	0.476
11)	t	2,4-DB	9.324	9.700	209.0E6	303.5E6	0.453M4	0.464M4
12)	t	Dinoseb	10.066	9.915	1163.8E6	1150.0E6	0.479M4	0.457M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:46 pm
Operator : pest16:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:59:01 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

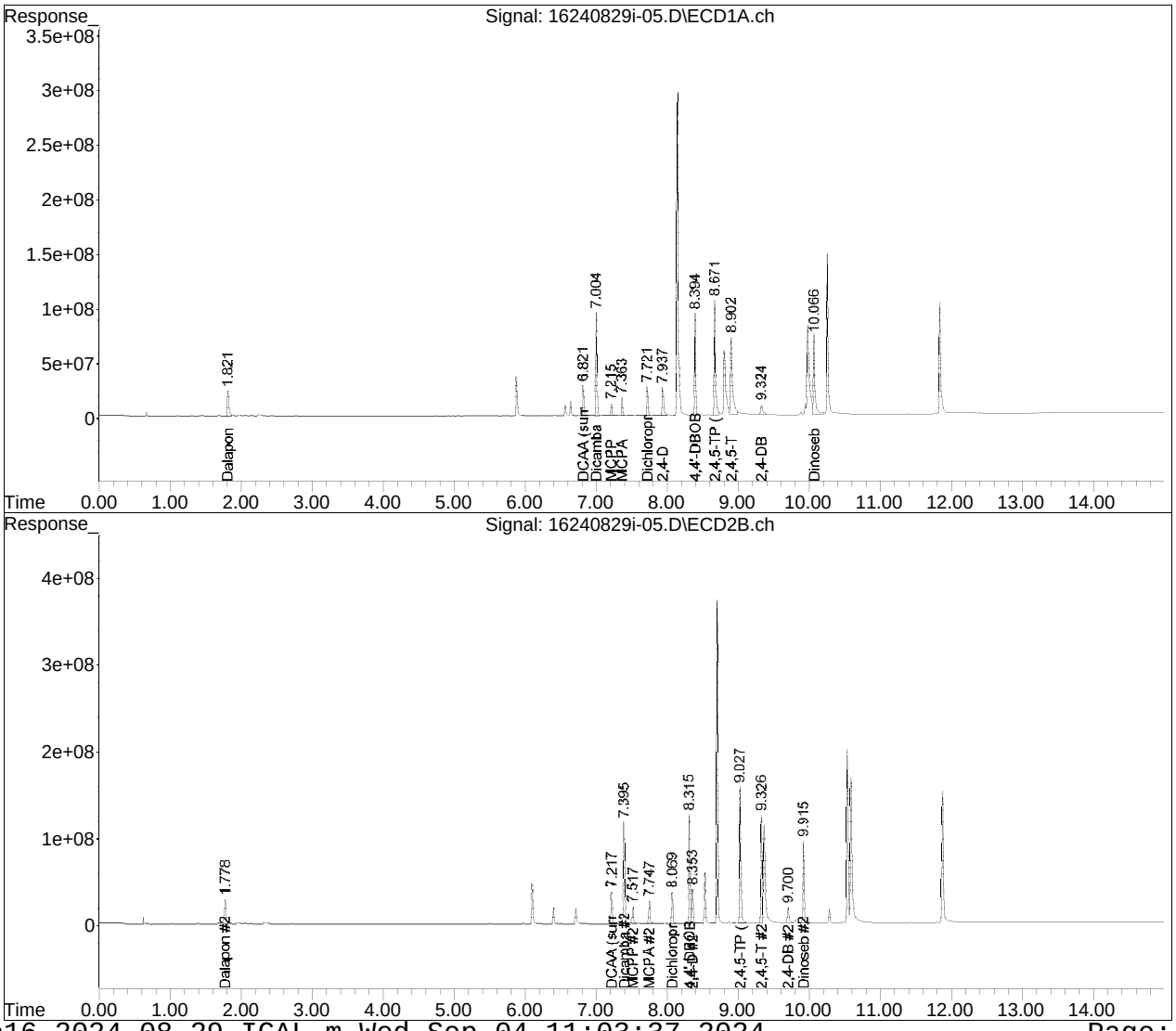
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 1:46 pm
Operator : pest16:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 08:59:01 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 08:58:44 2024
Response via : Initial Calibration
Integrator: ChemStation

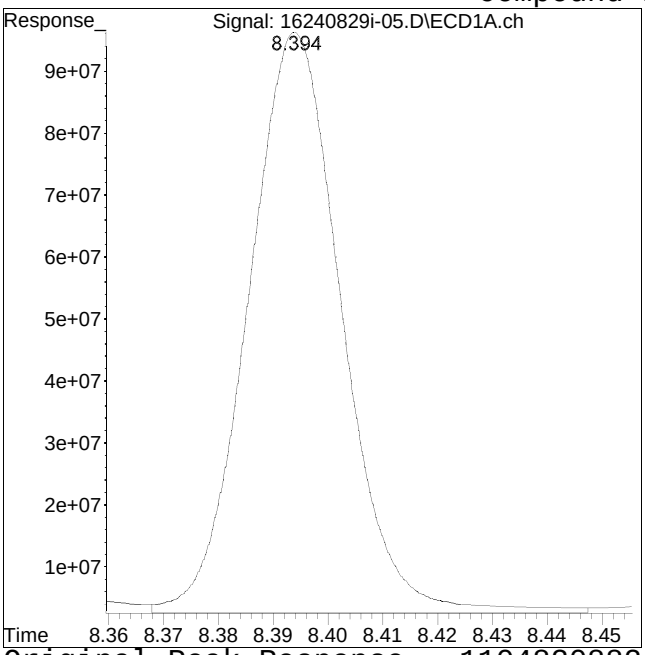
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

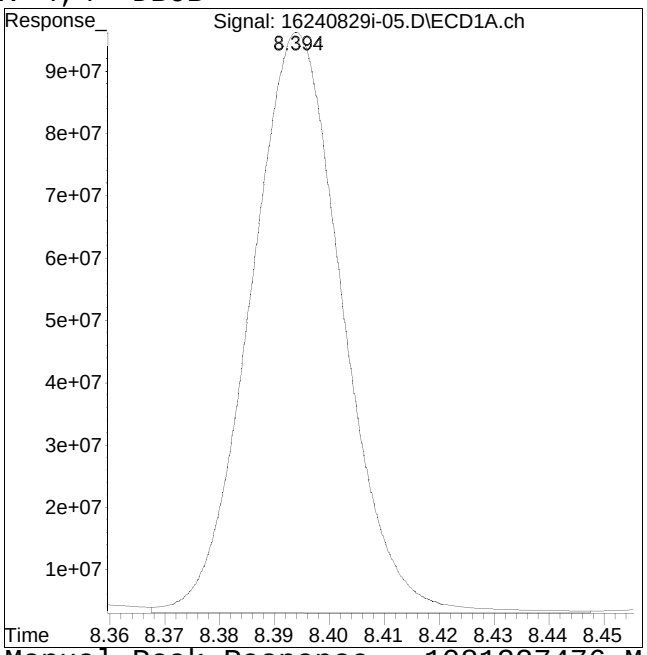


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #1: 4,4'-DBOB



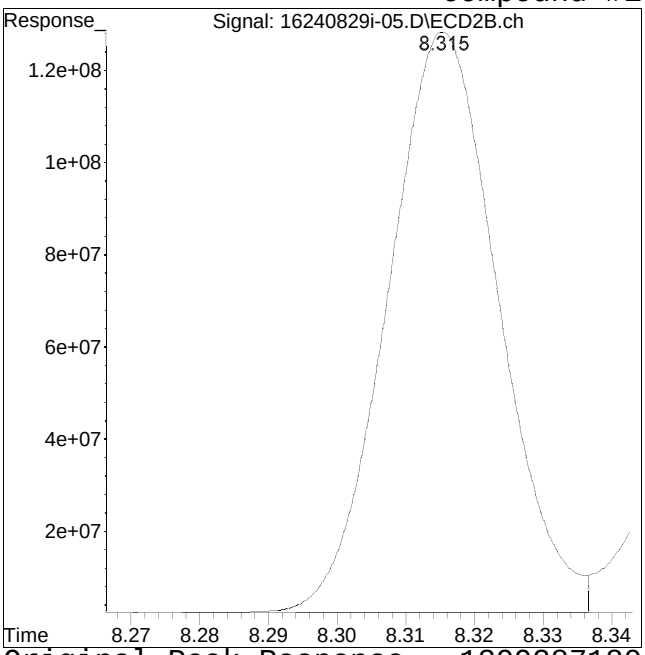


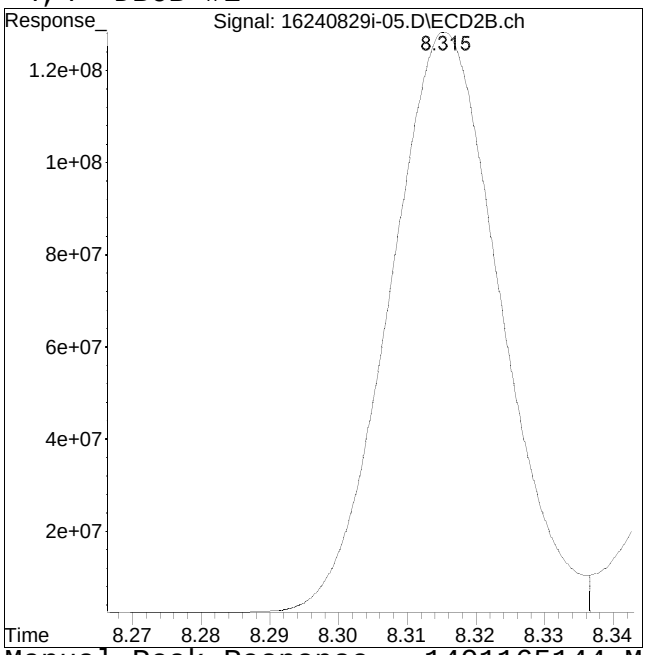
Original Peak Response = 1104820882 Manual Peak Response = 1081227476 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #14: 4,4'-DBOB #2



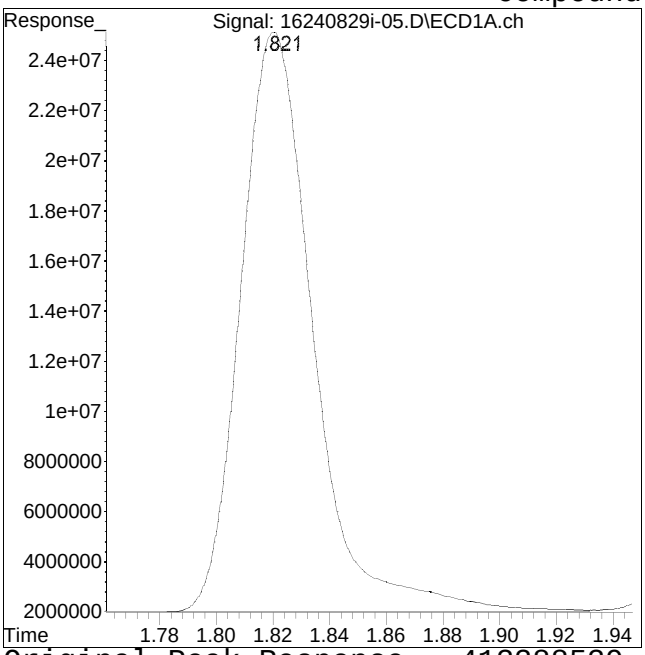


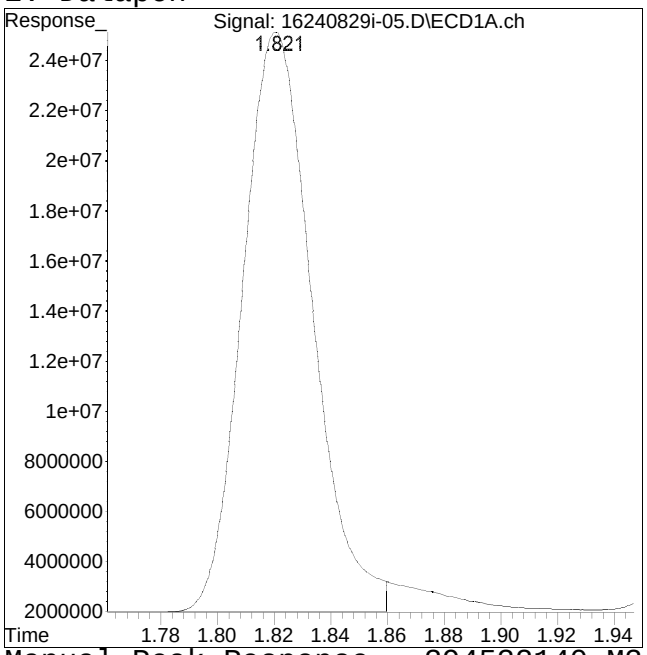
Original Peak Response = 1399287180 Manual Peak Response = 1401165144 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #2: Dalapon



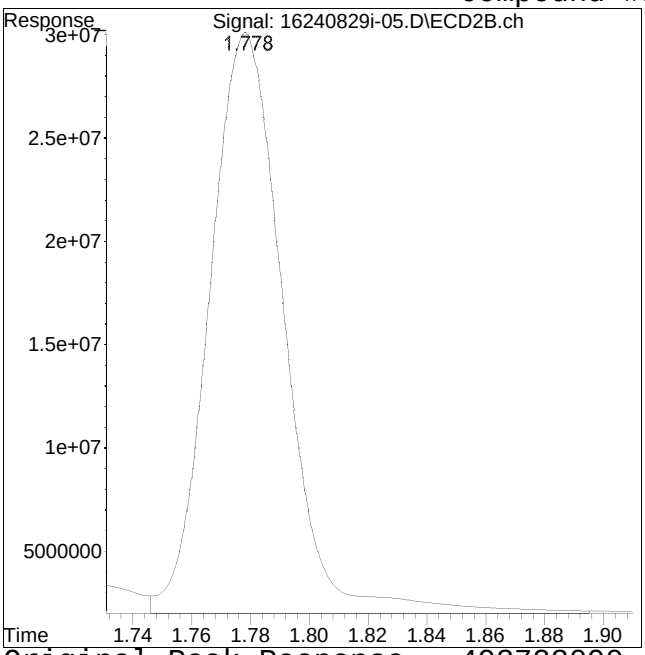


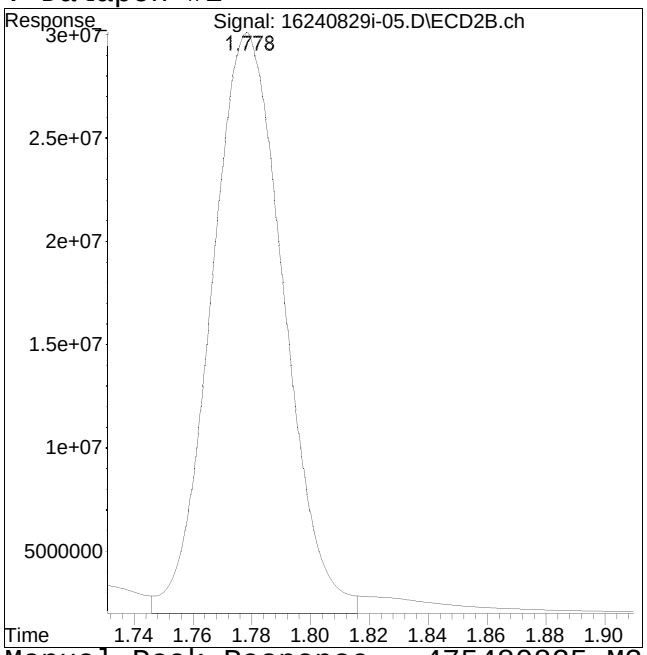
Original Peak Response = 413388539 Manual Peak Response = 394532140 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #15: Dalapon #2



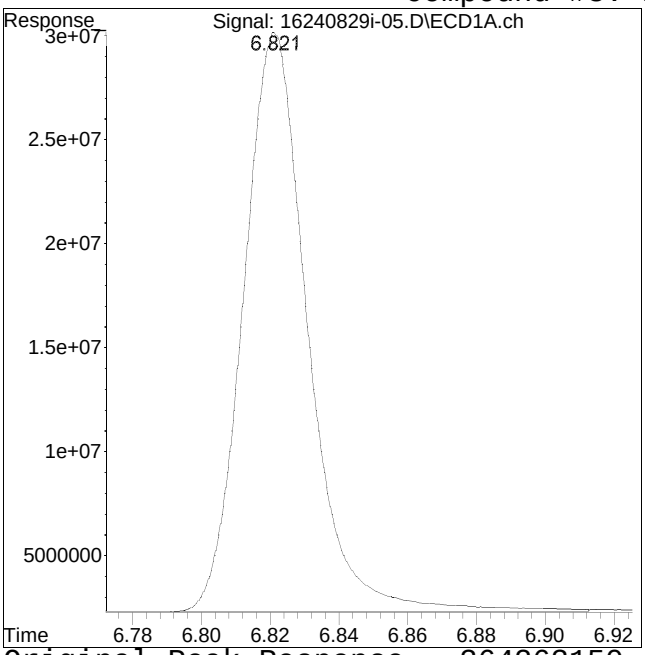


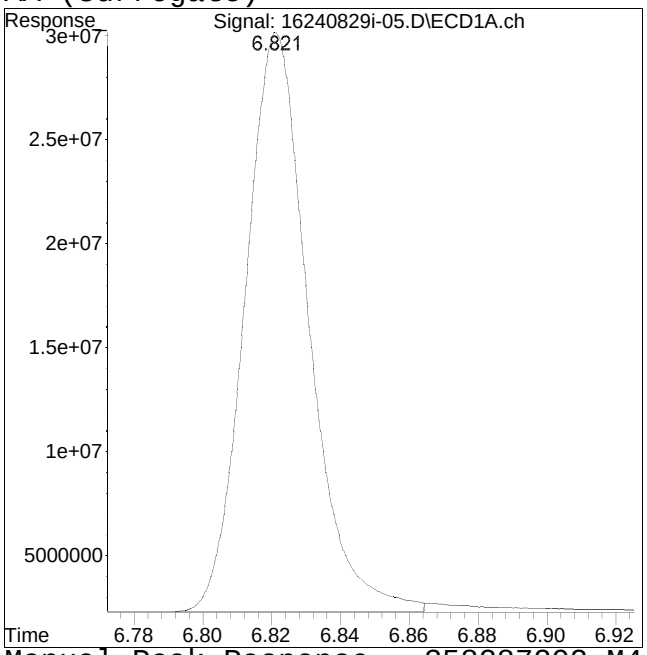
Original Peak Response = 493723090 Manual Peak Response = 475480825 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #3: DCAA (surrogate)



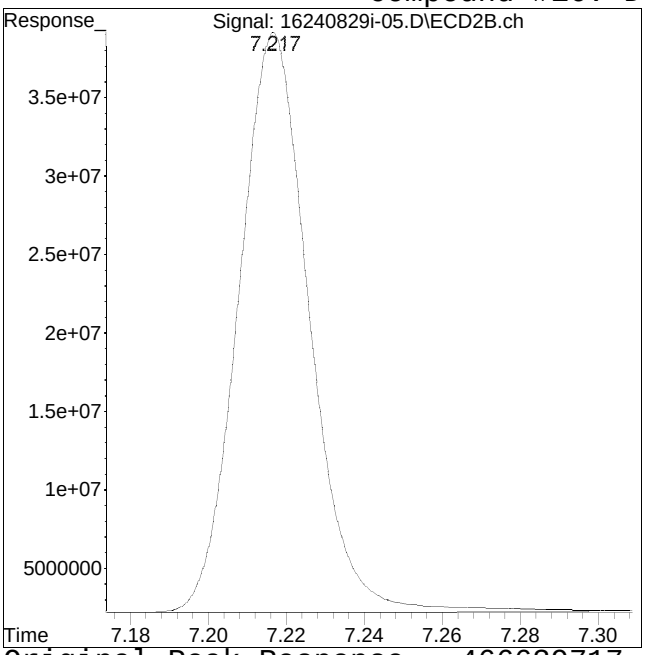


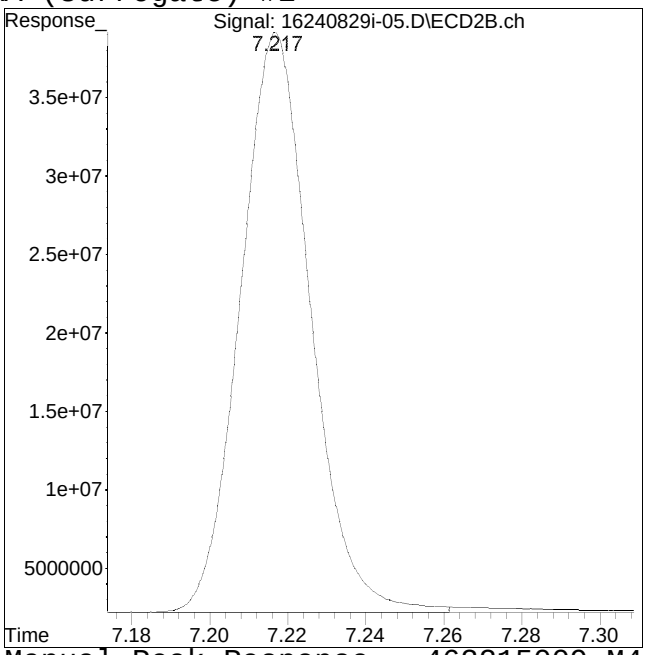
Original Peak Response = 364263150 Manual Peak Response = 358287292 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #16: DCAA (surrogate) #2



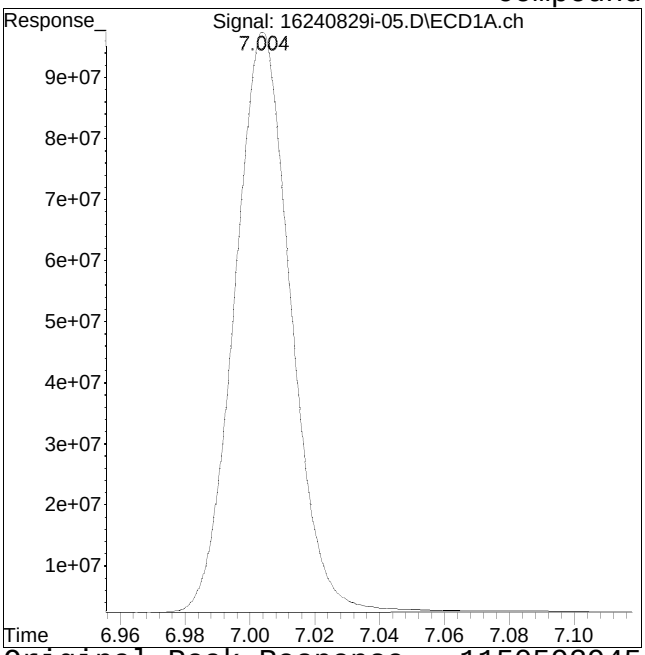


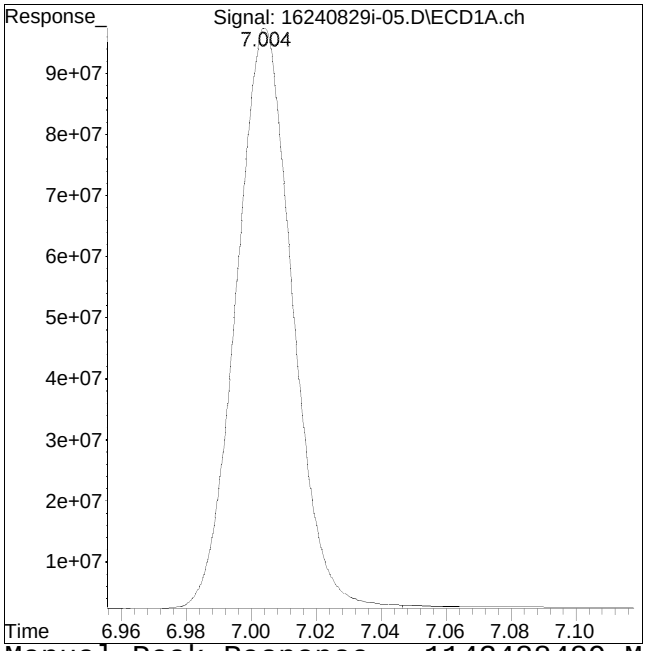
Original Peak Response = 466639717 Manual Peak Response = 462215009 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #4: Dicamba



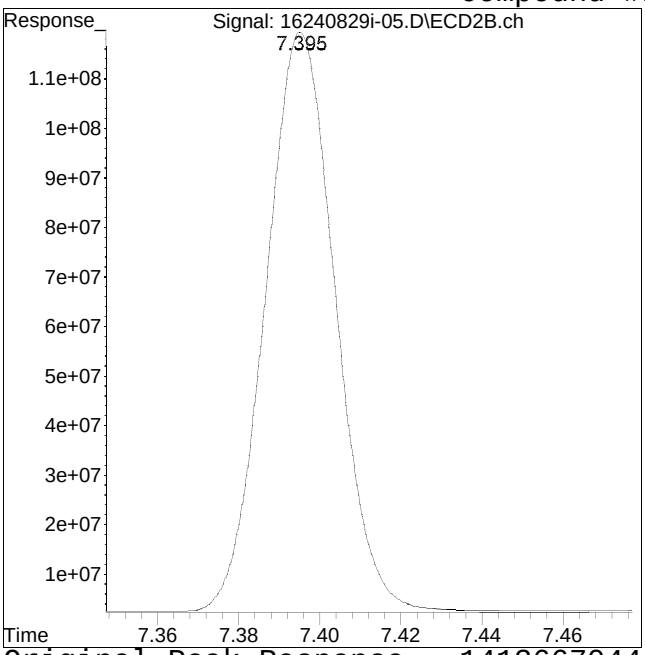


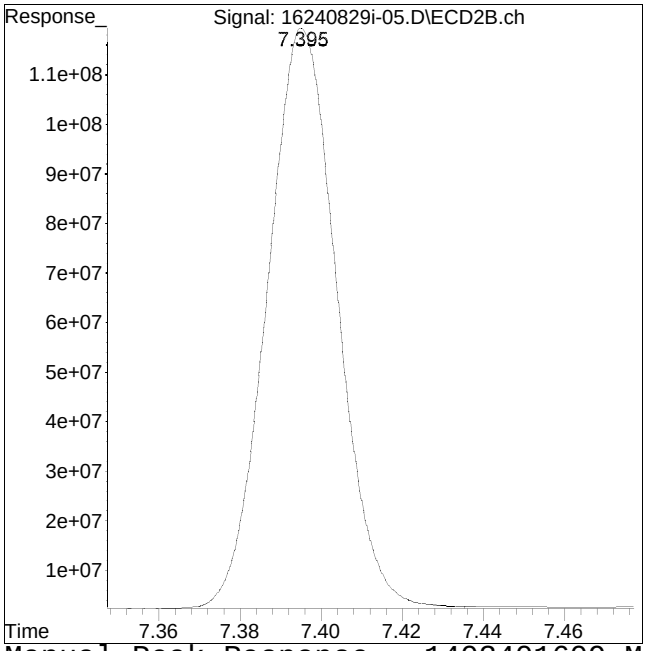
Original Peak Response = 1150593945 Manual Peak Response = 1143488489 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #17: Dicamba #2



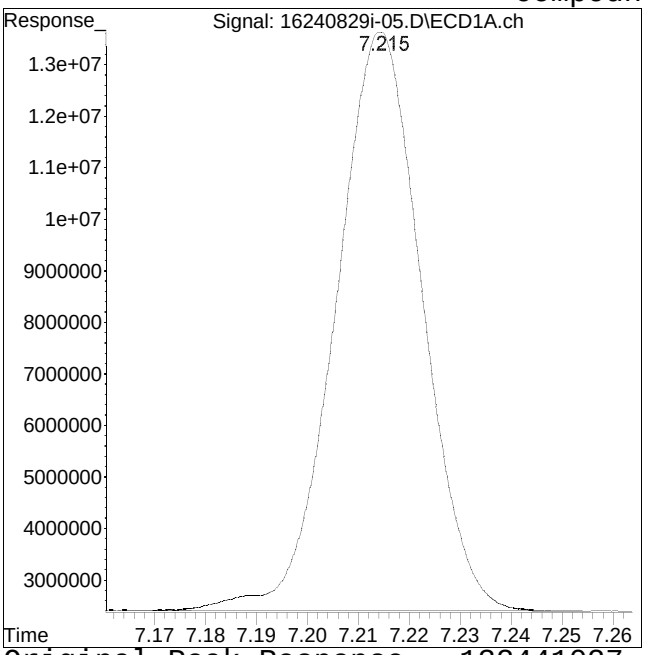


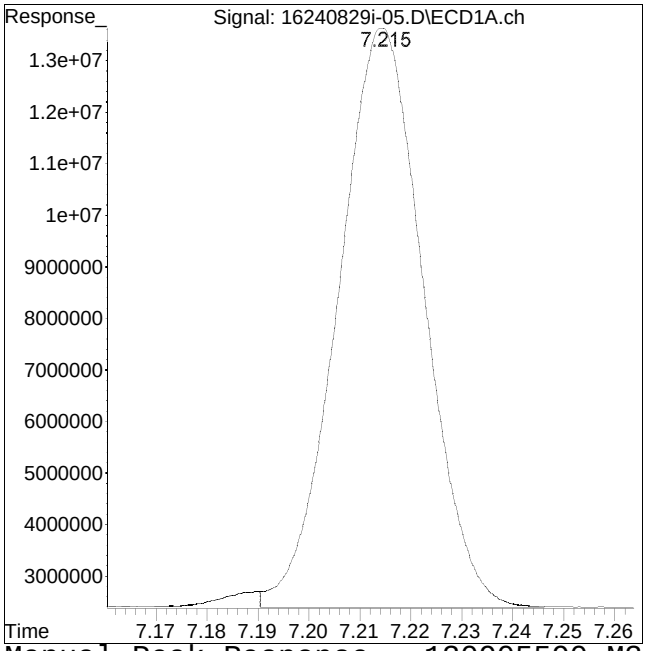
Original Peak Response = 1413667044 Manual Peak Response = 1403401609 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #5: MCPP



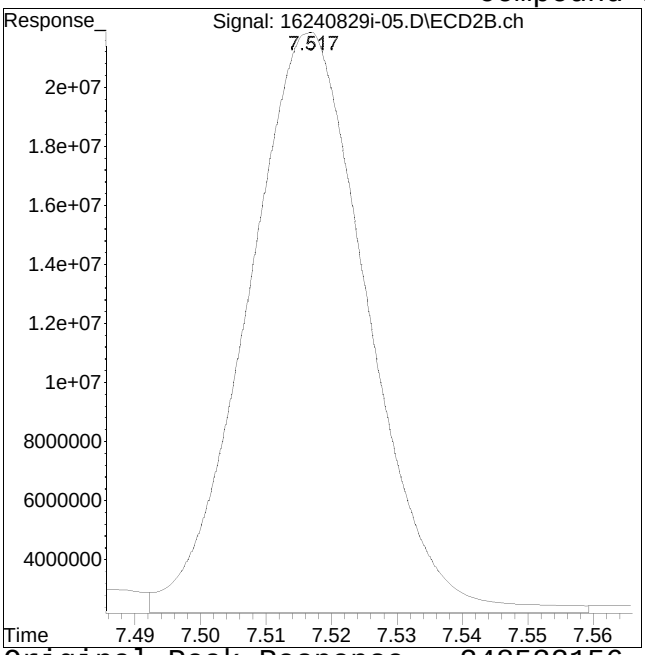


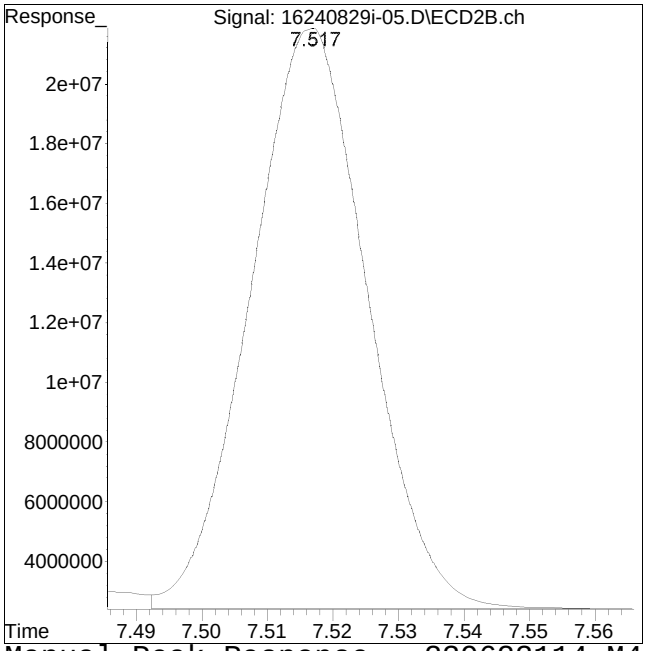
Original Peak Response = 132441027 Manual Peak Response = 130905590 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #18: MCPP #2



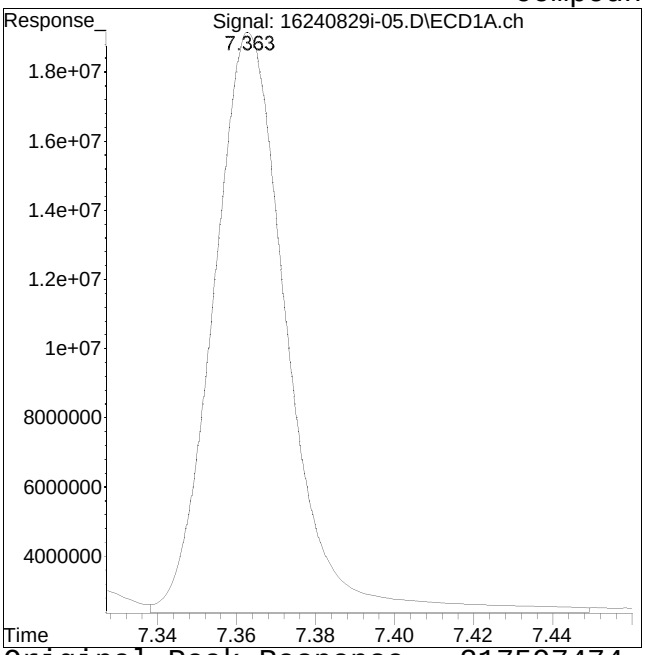


Original Peak Response = 248532156 Manual Peak Response = 239623114 M4
M4 = Poor automated baseline construction.

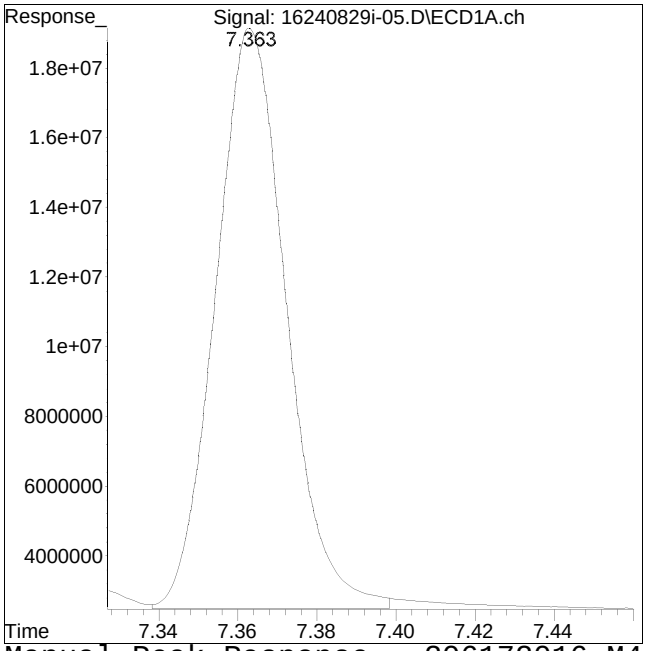
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #6: MCPA



Original Peak Response = 217597474



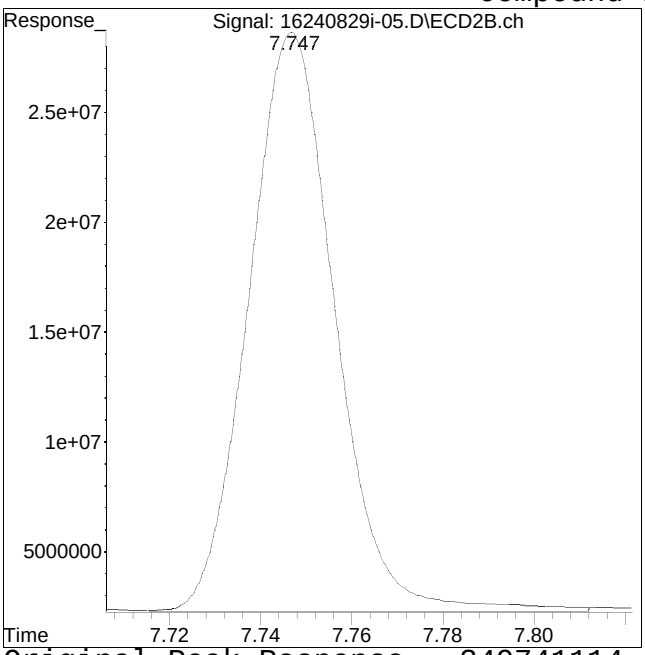
Manual Peak Response = 206172016 M4

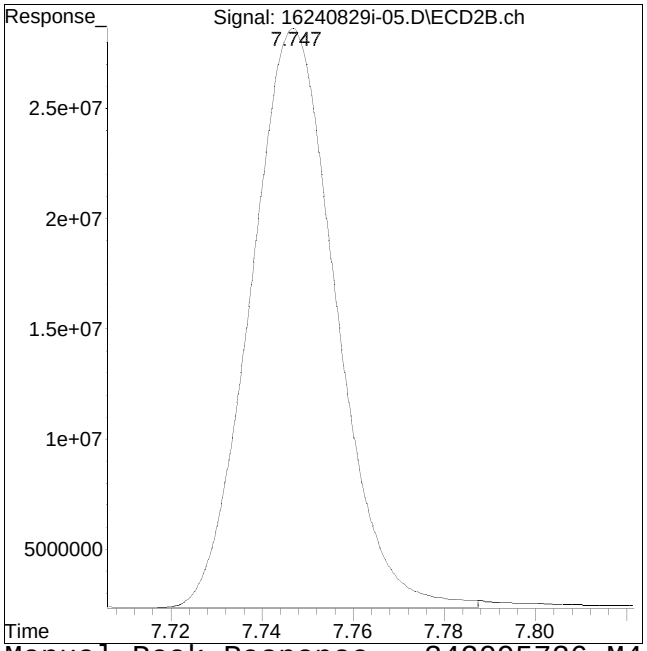
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #19: MCPA #2



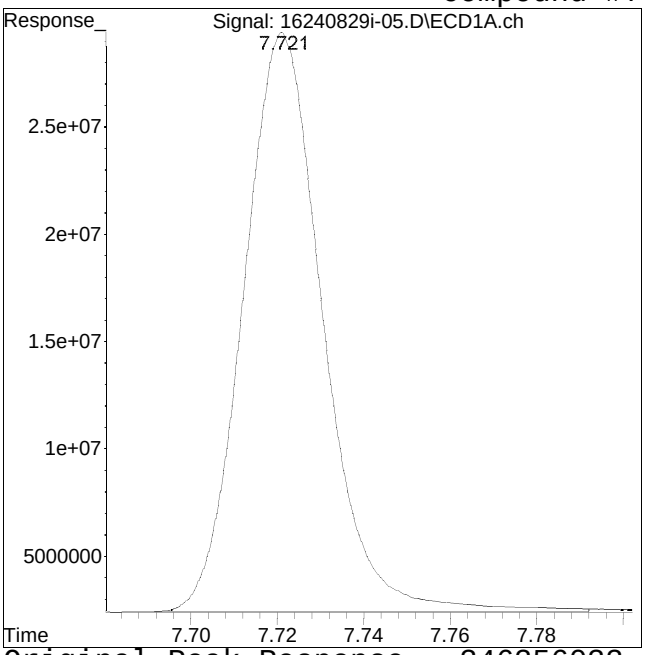


Original Peak Response = 349741114 Manual Peak Response = 342095726 M4
M4 = Poor automated baseline construction.

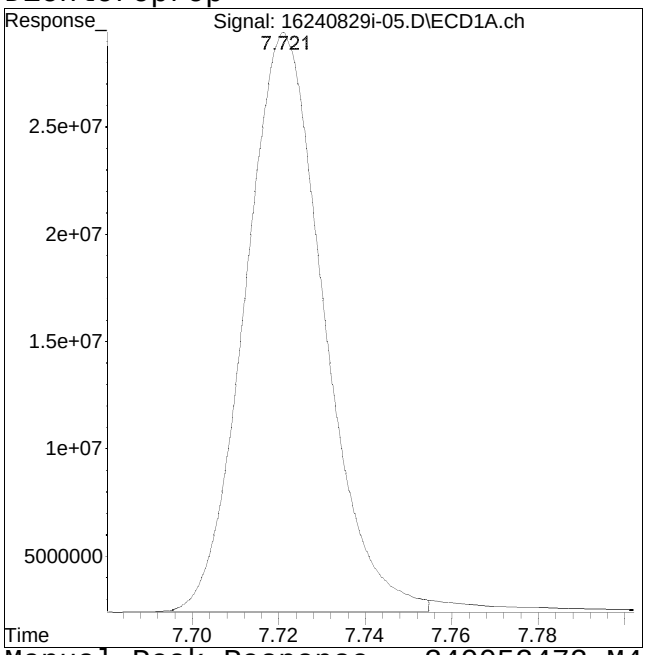
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #7: Dichloroprop



Original Peak Response = 346356033



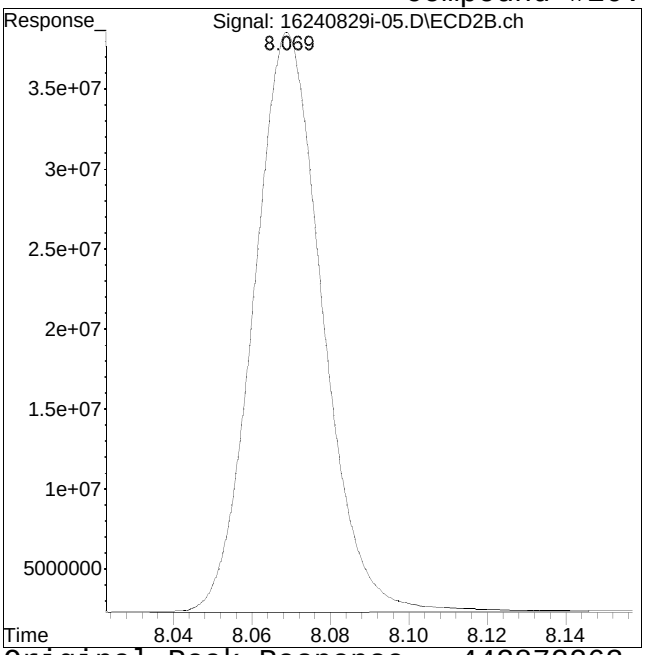
Manual Peak Response = 340052472 M4

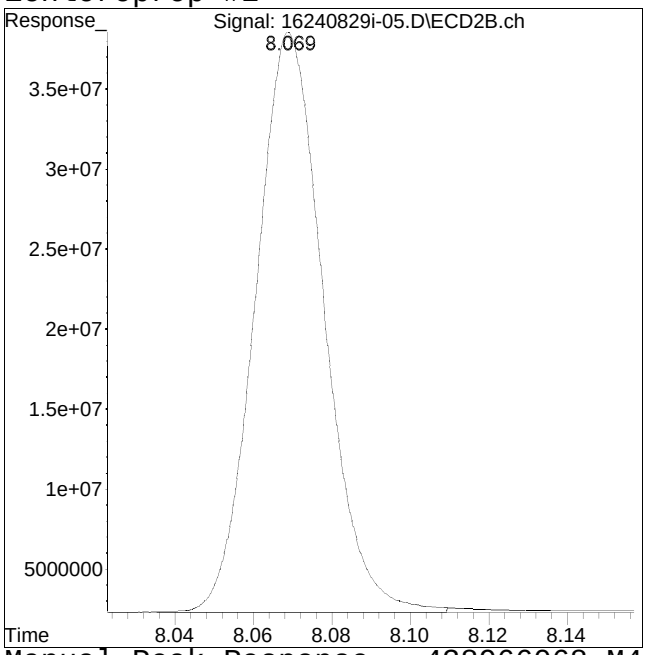
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #20: Dichloroprop #2



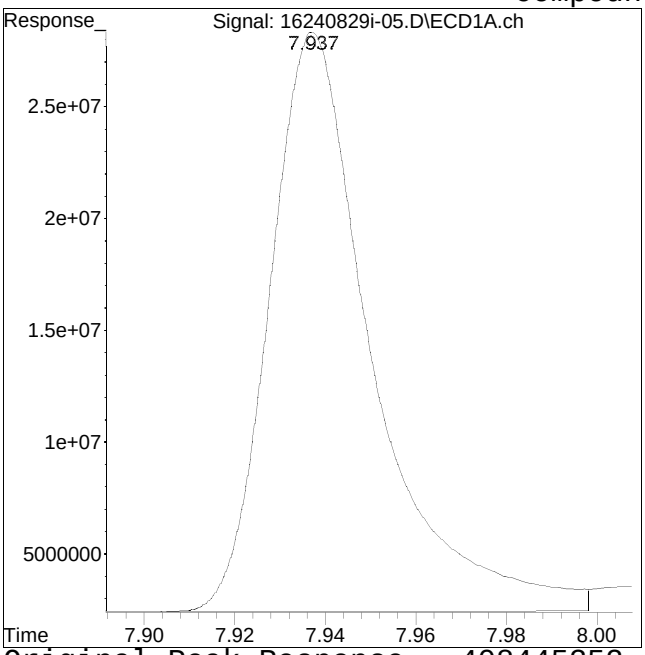


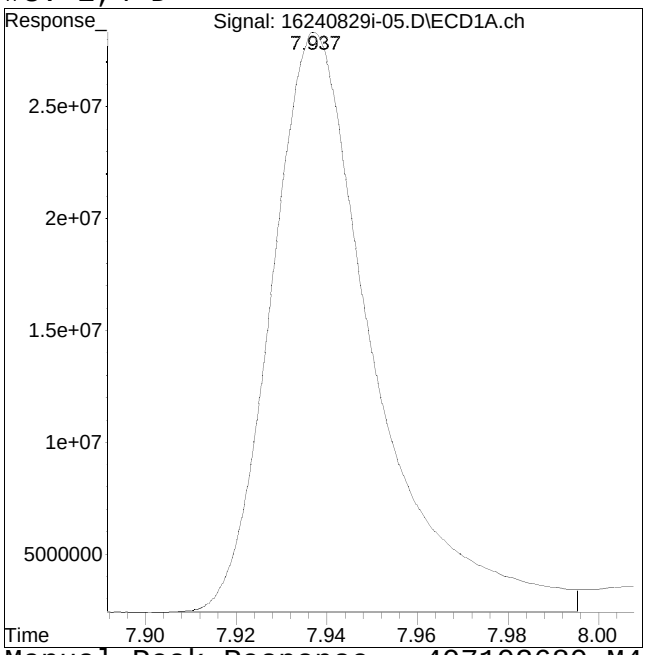
Original Peak Response = 442872263 Manual Peak Response = 438966068 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #8: 2,4-D



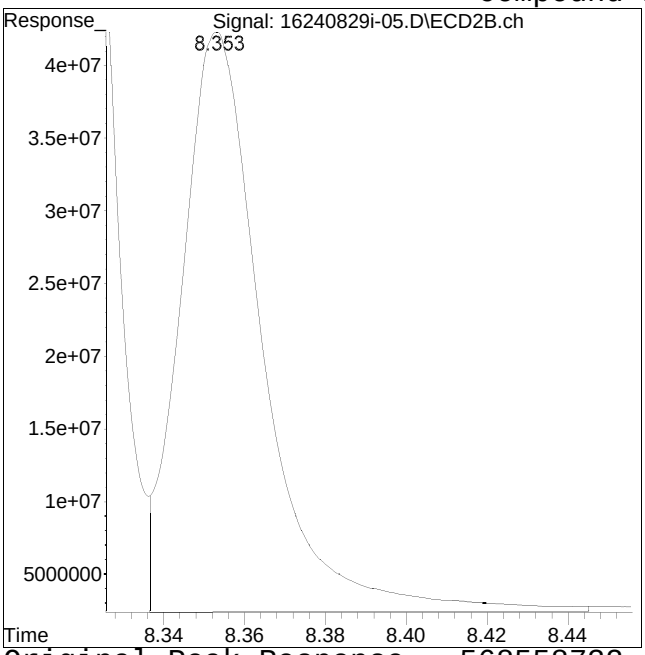


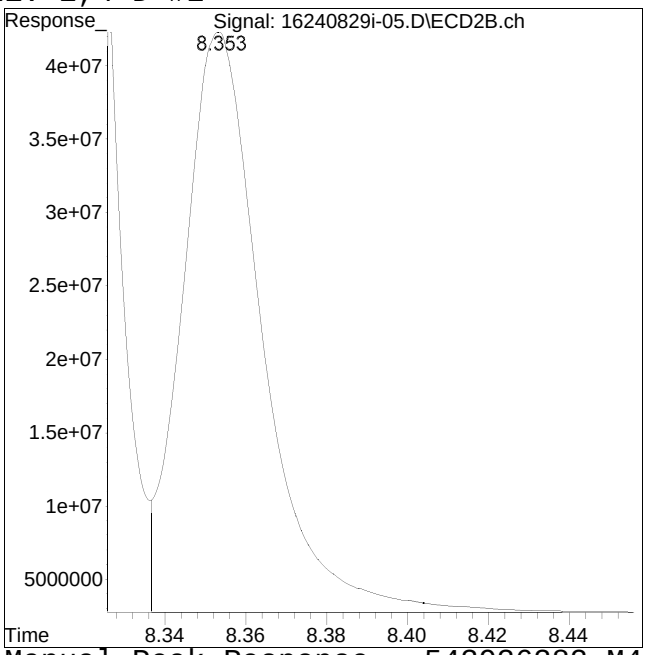
Original Peak Response = 408445352 Manual Peak Response = 407102680 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #21: 2,4-D #2



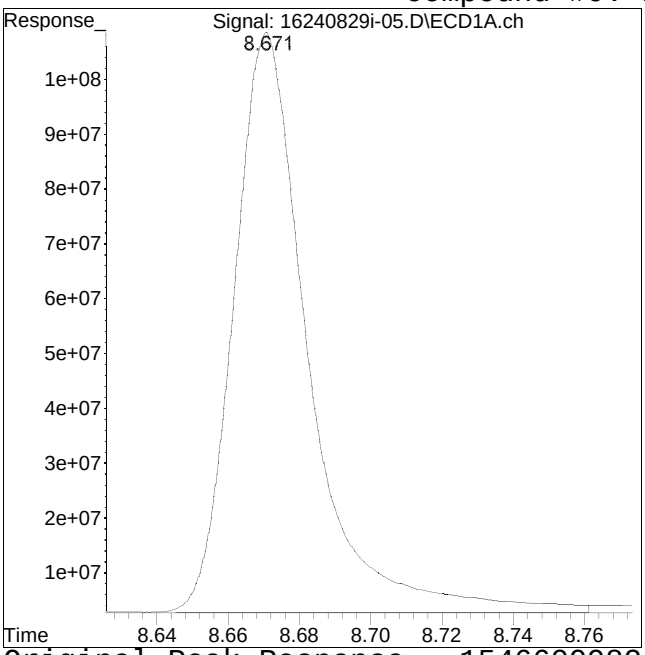


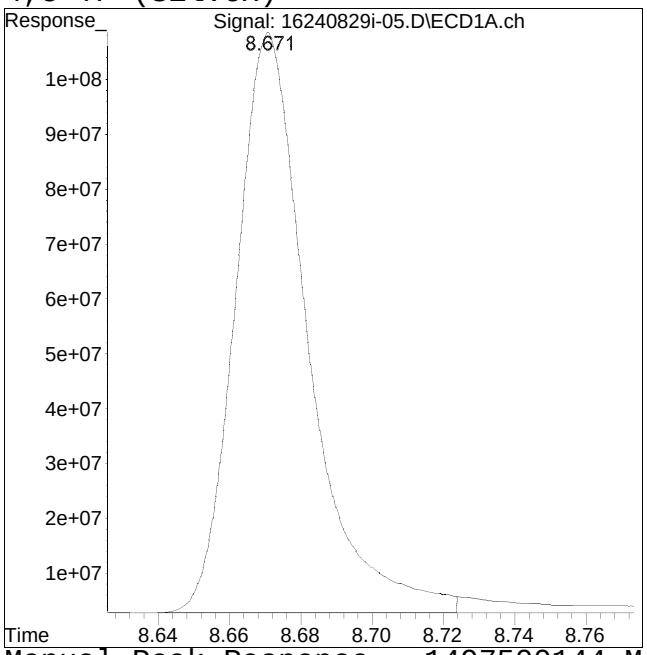
Original Peak Response = 568558732 Manual Peak Response = 543936382 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #9: 2,4,5-TP (Silvex)



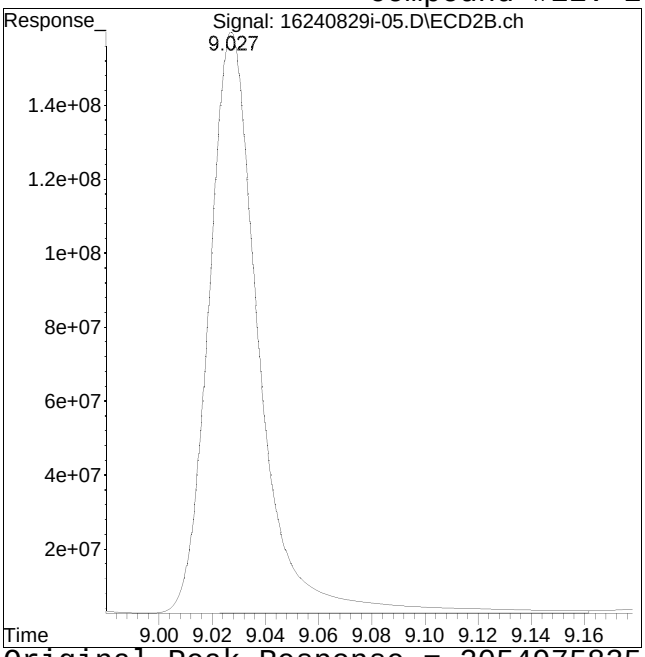


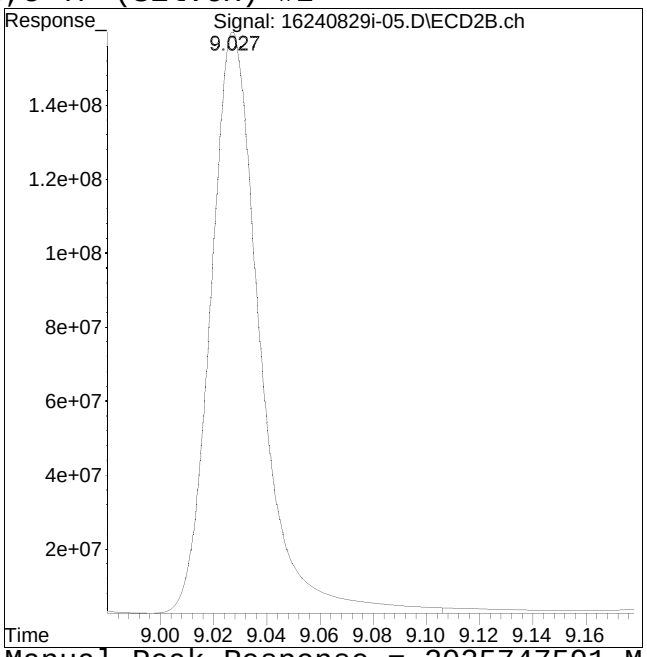
Original Peak Response = 1546609982 Manual Peak Response = 1497500144 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #22: 2,4,5-TP (Silvex) #2



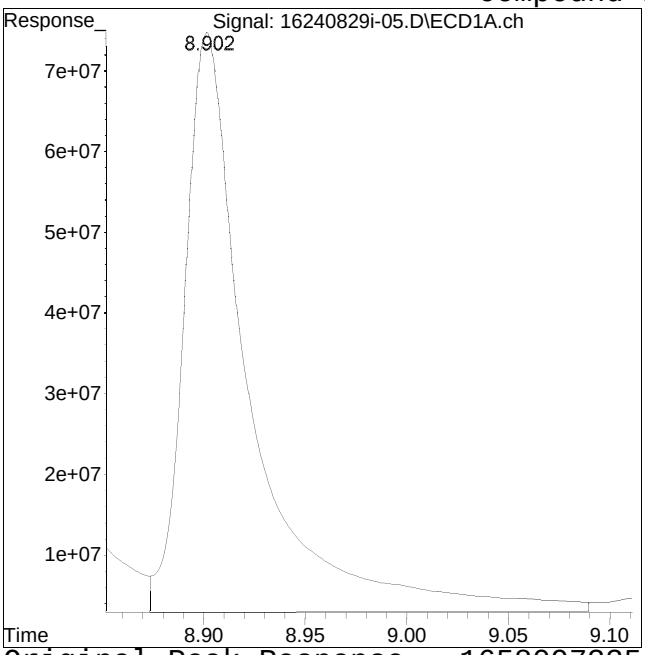


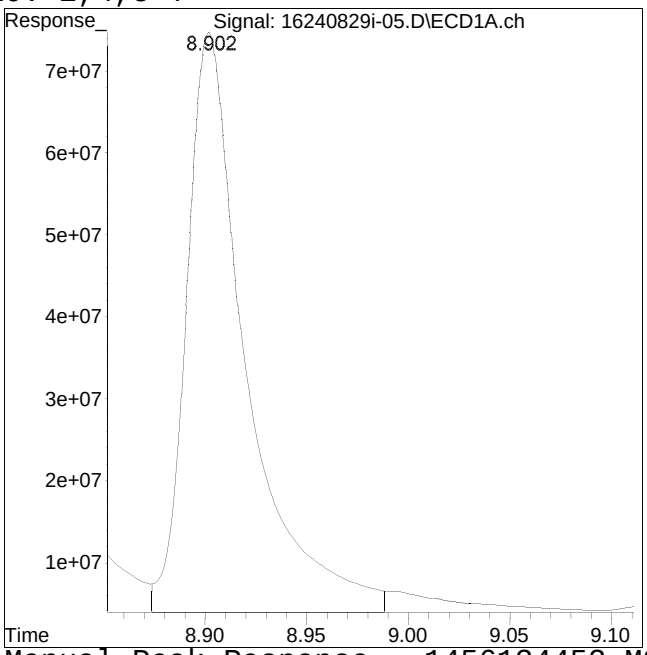
Original Peak Response = 2054975835 Manual Peak Response = 2025747591 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #10: 2,4,5-T



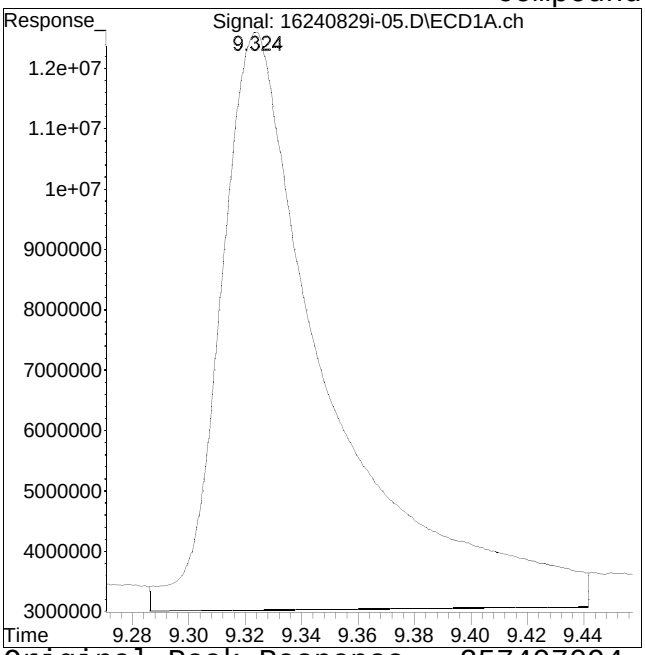


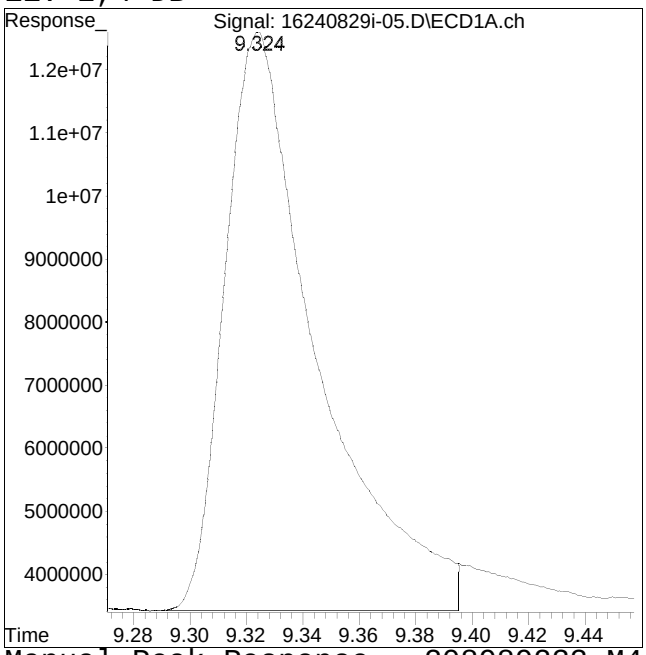
Original Peak Response = 1658097335 Manual Peak Response = 1456134452 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #11: 2,4-DB



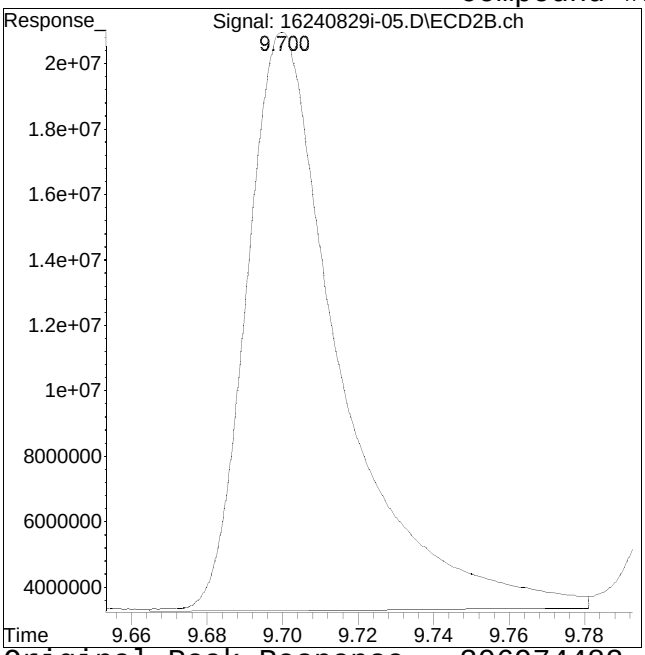


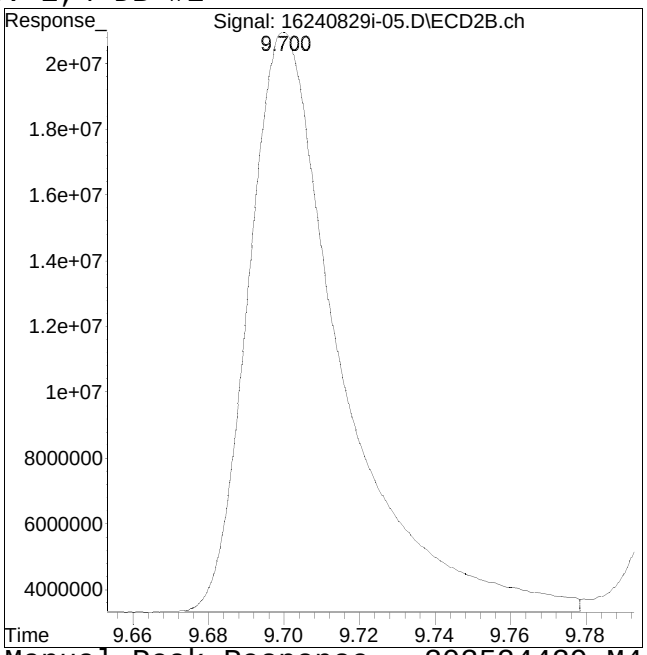
Original Peak Response = 257407094 Manual Peak Response = 208989233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #24: 2,4-DB #2



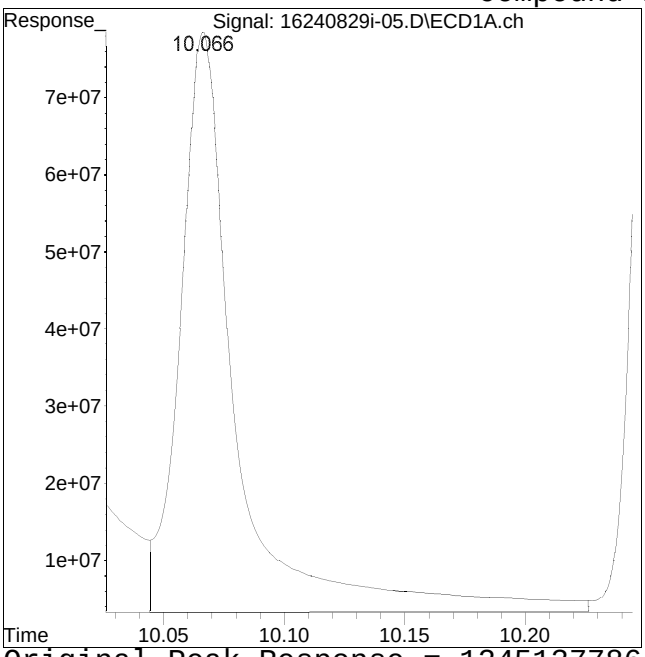


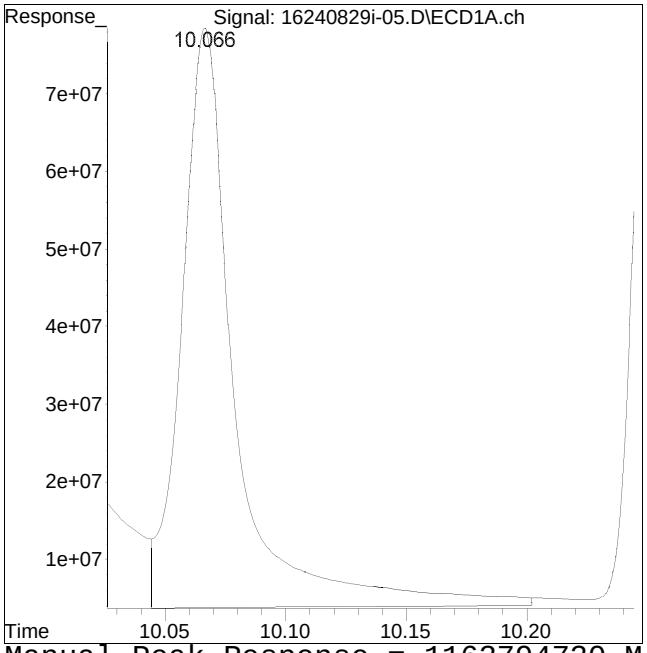
Original Peak Response = 306974482 Manual Peak Response = 303524429 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #12: Dinoseb



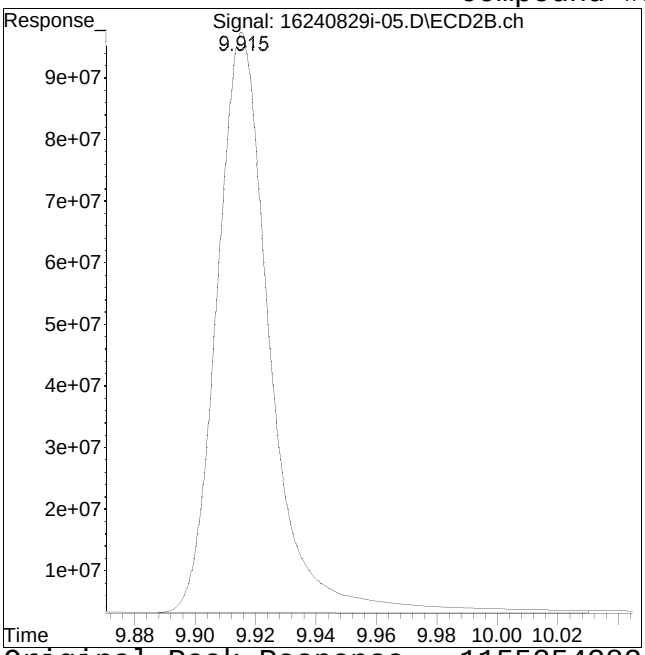


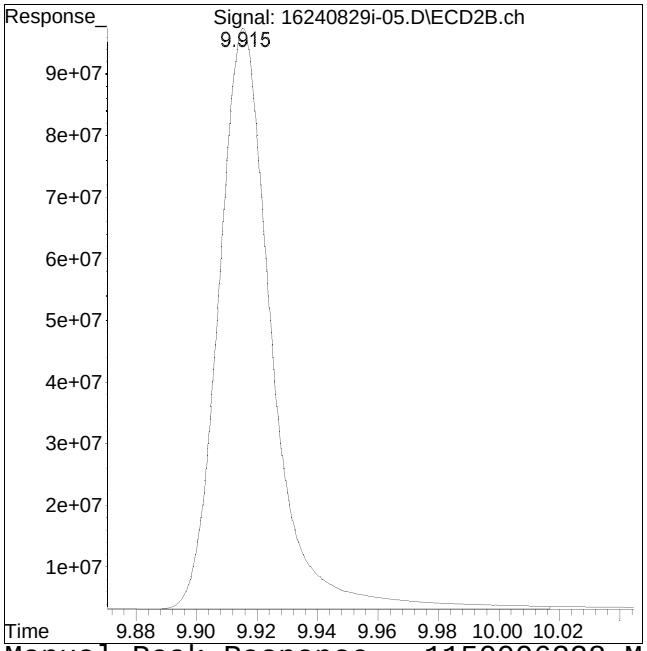
Original Peak Response = 1245137786 Manual Peak Response = 1163794730 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-05.D Operator : pest16:akm
Date Inj'd : 8/29/2024 1:46 pm Instrument : PEST16
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 8/30/2024 8:59 am

Compound #25: Dinoseb #2





Original Peak Response = 1155254282 Manual Peak Response = 1150006228 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:05 pm
Operator : pest16:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:03:58 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:03:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.393	8.316	1104.3E6	1426.0E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.820	7.216	691.0E6	874.8E6	0.861M4	0.856M4
		Spiked Amount 0.500	Range 30 - 150		Recovery =		172.20%#	171.20%#
		Target Compounds						
2)	t	Dalapon	1.817	1.774	742.3E6	892.0E6	0.840M4	0.842M3
4)	t	Dicamba	7.003	7.396	2266.7E6	2734.6E6	0.890M4	0.885M4
5)	t	MCPP	7.215	7.517	266.5E6	427.9E6	91.844M4	80.267M4
6)	t	MCPA	7.363	7.748	396.3E6	607.1E6	85.102M4	78.318M4
7)	t	Dichloroprop	7.720	8.069	669.2E6	846.8E6	0.872M4	0.868M4
8)	t	2,4-D	7.936	8.352	817.1E6	1073.3E6	0.912M4	0.878M4
9)	t	2,4,5-TP (Si	8.669	9.027	3117.3E6	4066.7E6	0.925M4	0.911M4
10)	t	2,4,5-T	8.895f	9.324	3003.9E6	3535.4E6	0.915M3	0.991M4
11)	t	2,4-DB	9.314f	9.696	442.8E6	627.0E6	0.946M3	0.950M4
12)	t	Dinoseb	10.065	9.915	2200.8E6	2292.7E6	0.931M4	0.913M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:05 pm
Operator : pest16:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:03:58 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:03:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

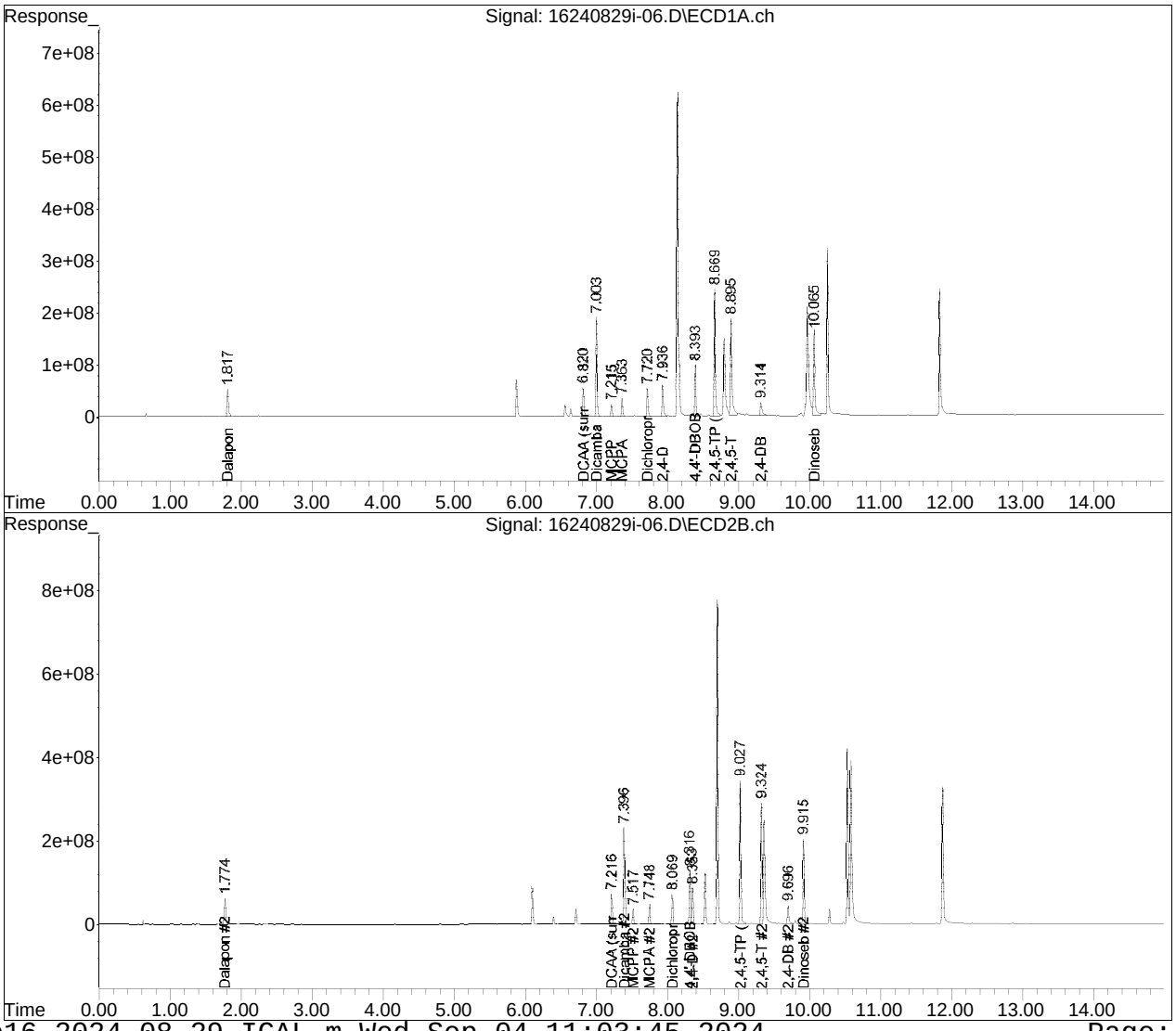
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:05 pm
Operator : pest16:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 30 09:03:58 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Fri Aug 30 09:03:50 2024
Response via : Initial Calibration
Integrator: ChemStation

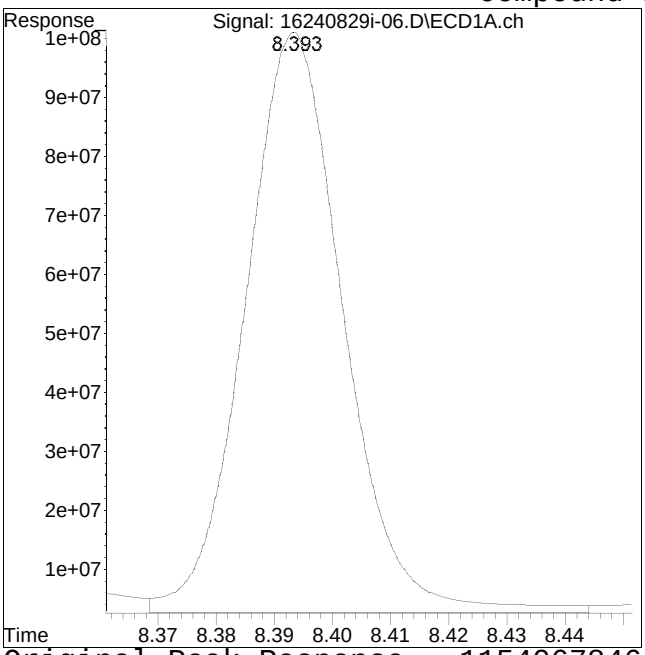
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

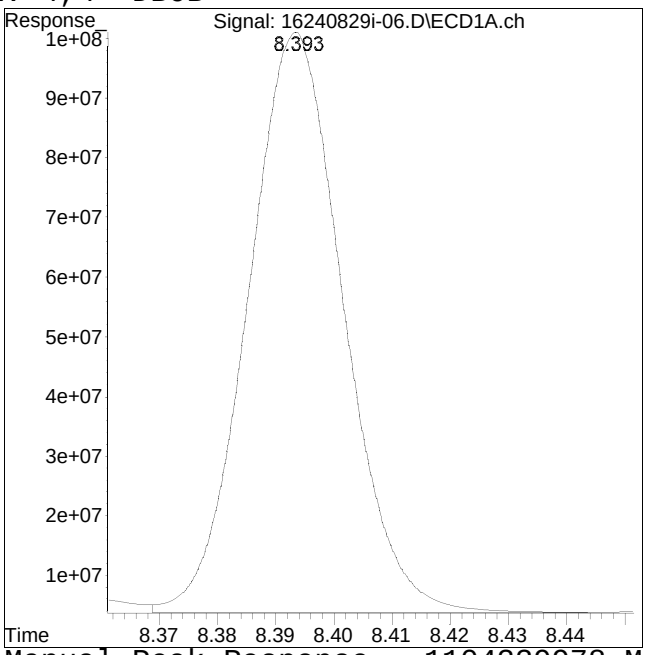


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #1: 4,4'-DBOB



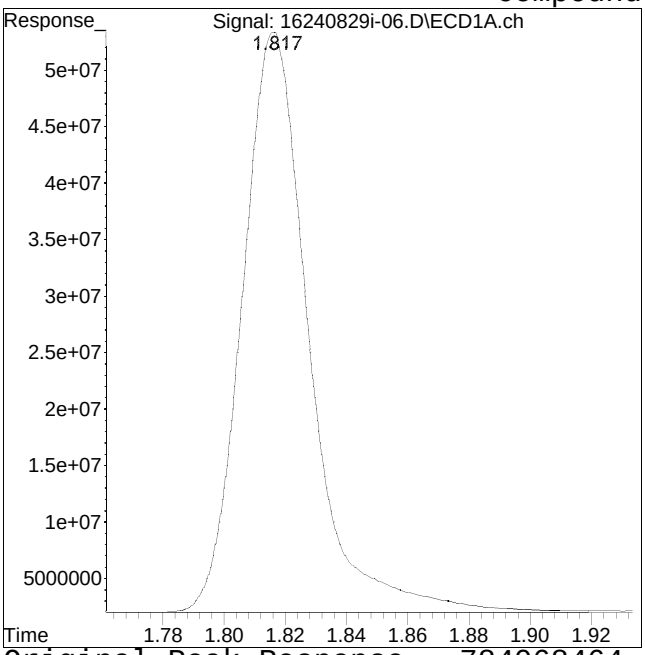


Original Peak Response = 1154067846 Manual Peak Response = 1104339978 M4
M4 = Poor automated baseline construction.

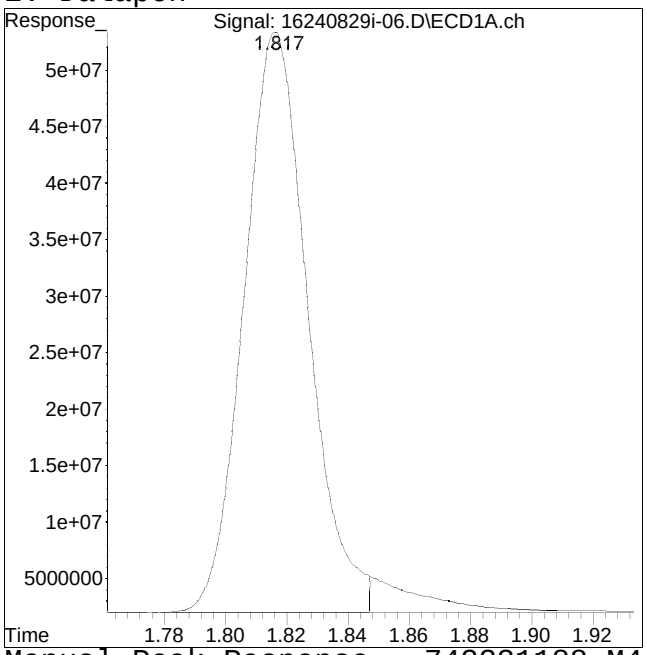
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #2: Dalapon



Original Peak Response = 784068464



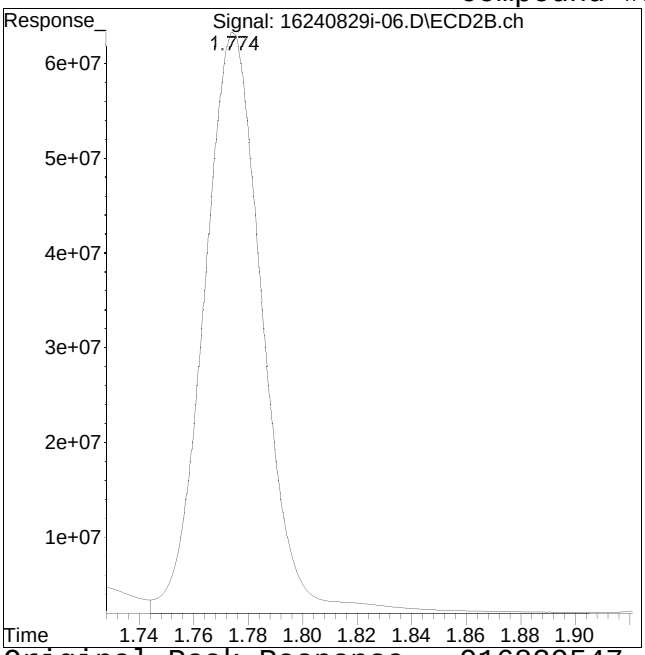
Manual Peak Response = 742331188 M4

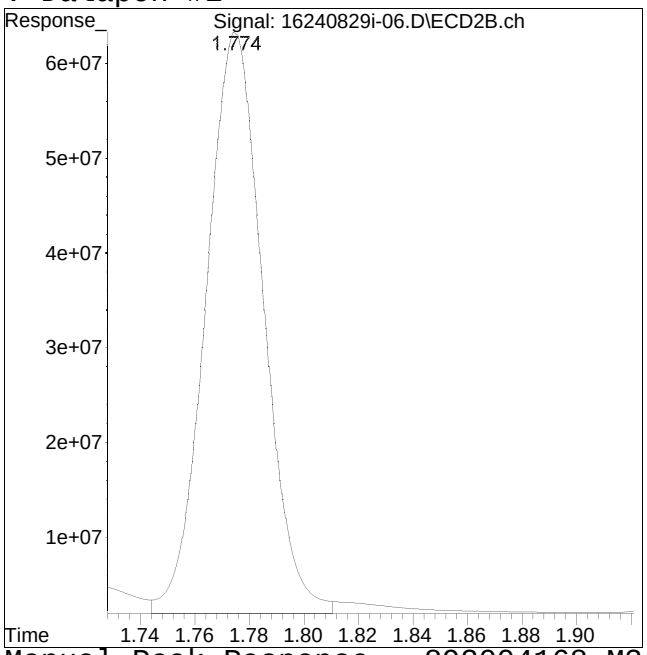
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #15: Dalapon #2



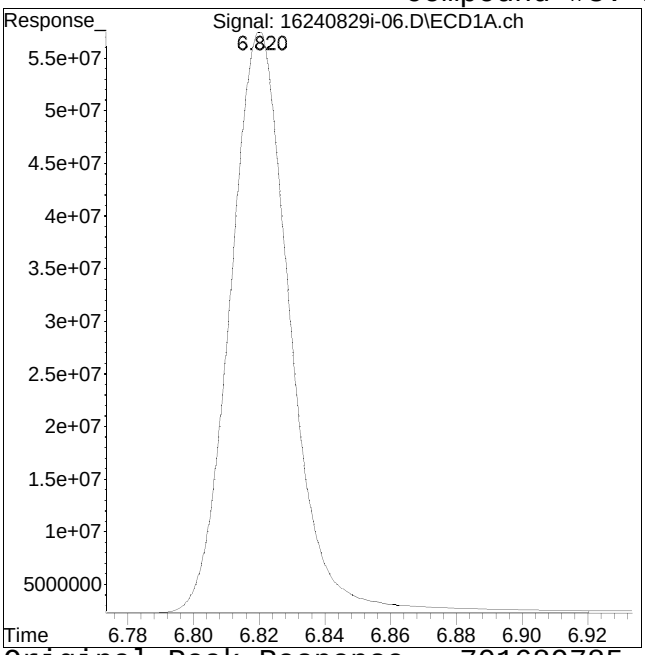


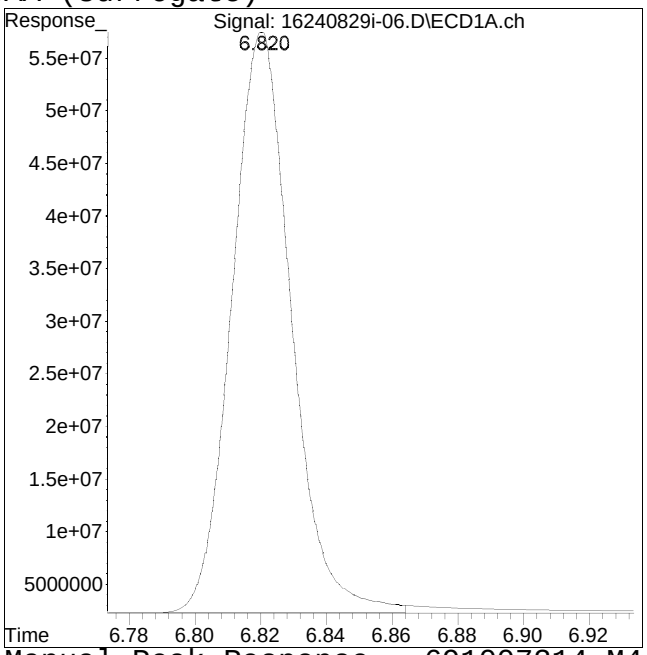
Original Peak Response = 916829547 Manual Peak Response = 892004168 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #3: DCAA (surrogate)



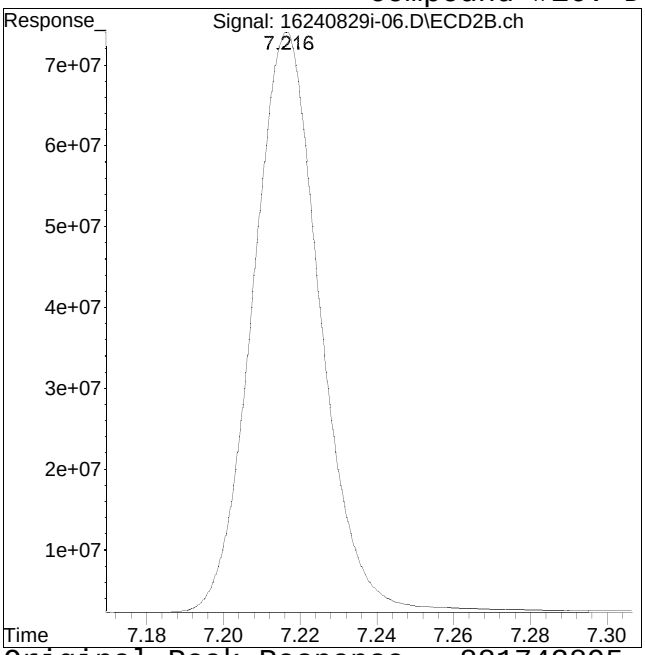


Original Peak Response = 701689785 Manual Peak Response = 691007314 M4
M4 = Poor automated baseline construction.

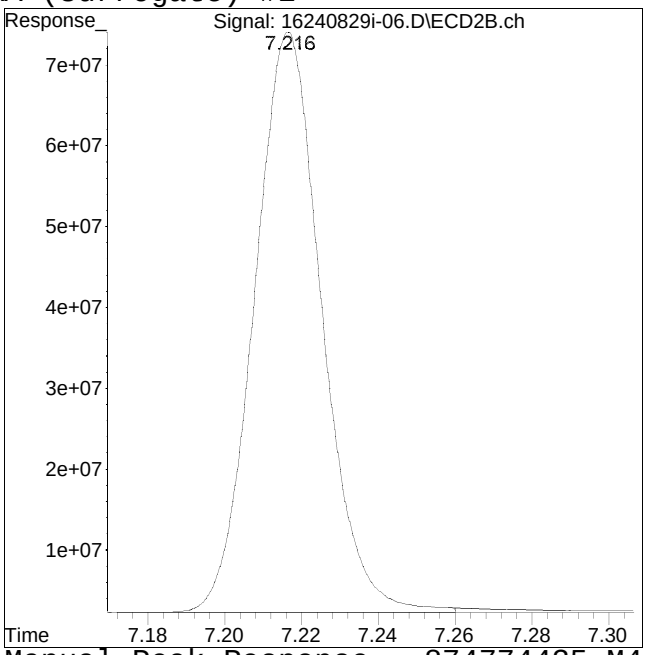
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 881743895



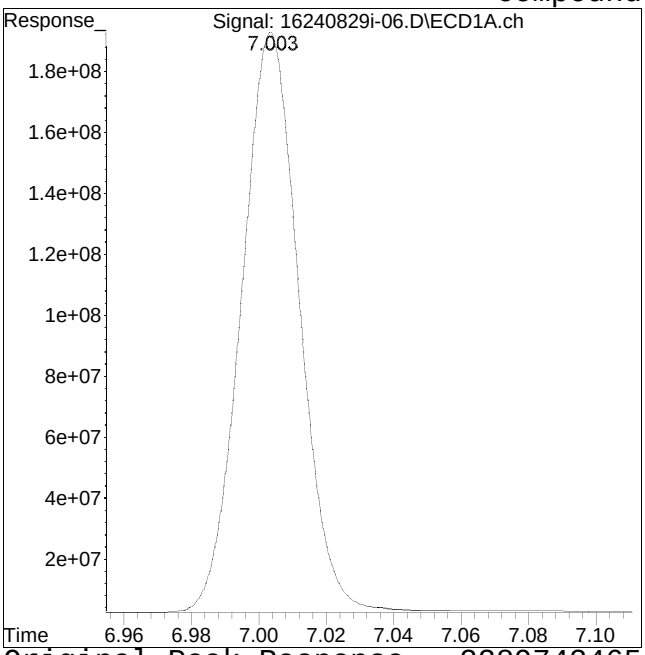
Manual Peak Response = 874774435 M4

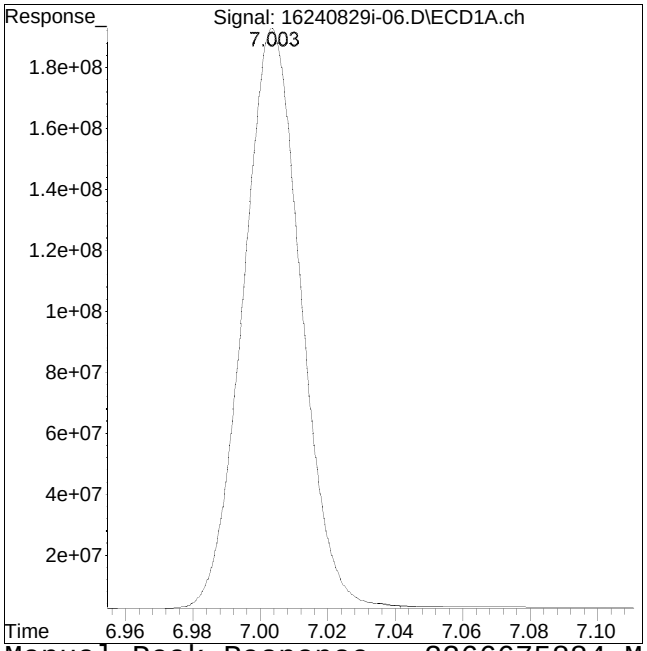
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #4: Dicamba



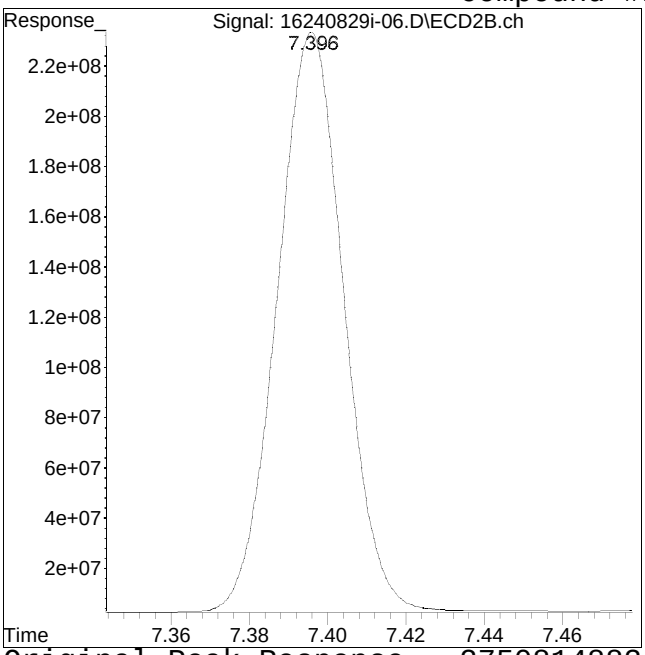


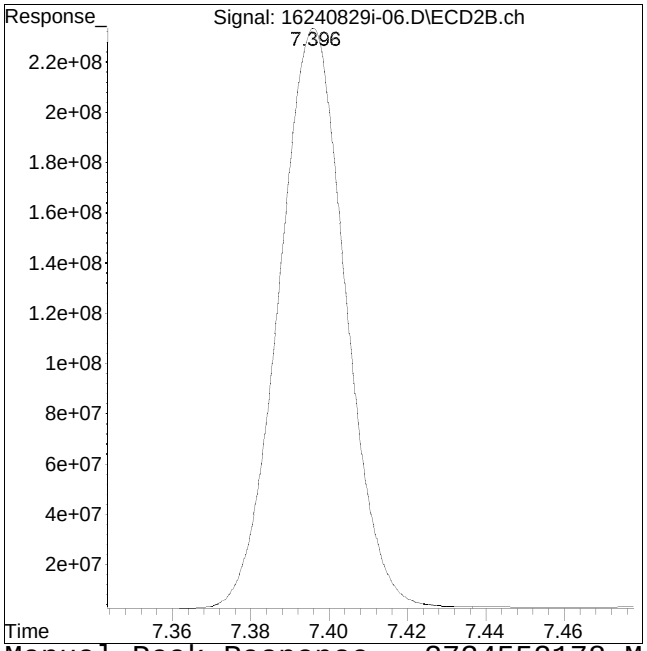
Original Peak Response = 2289742465 Manual Peak Response = 2266675884 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #17: Dicamba #2



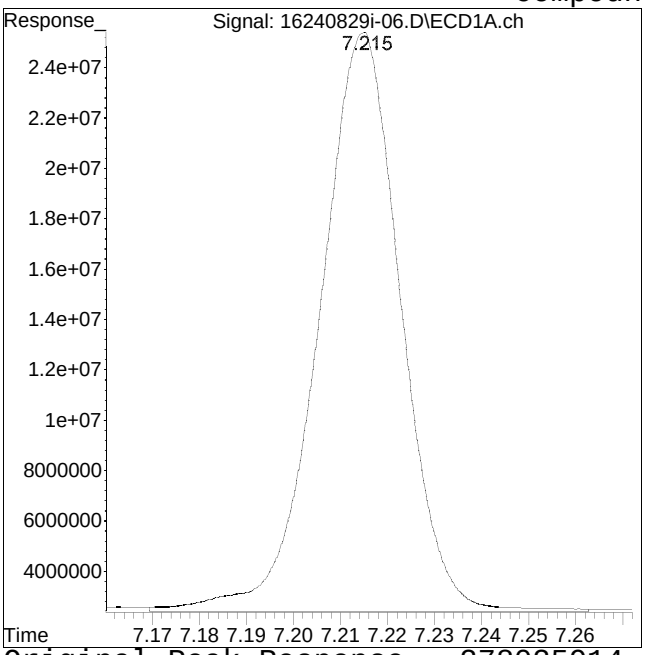


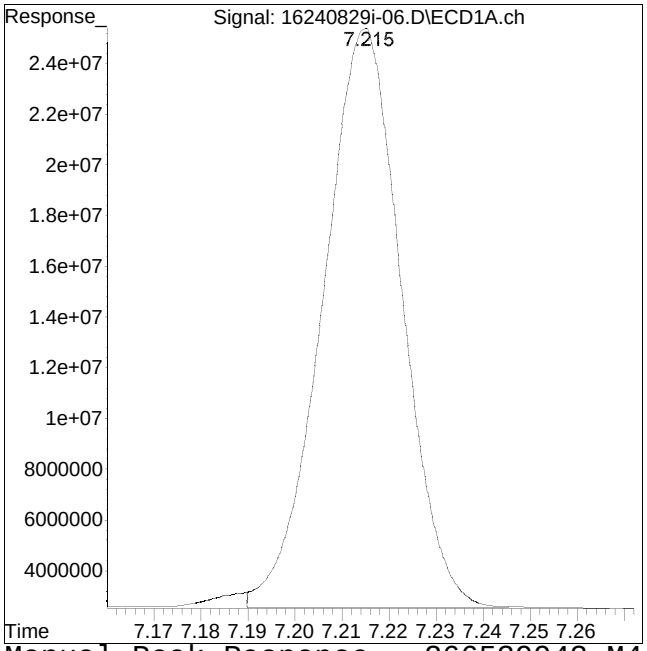
Original Peak Response = 2750814883 Manual Peak Response = 2734552178 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #5: MCPP



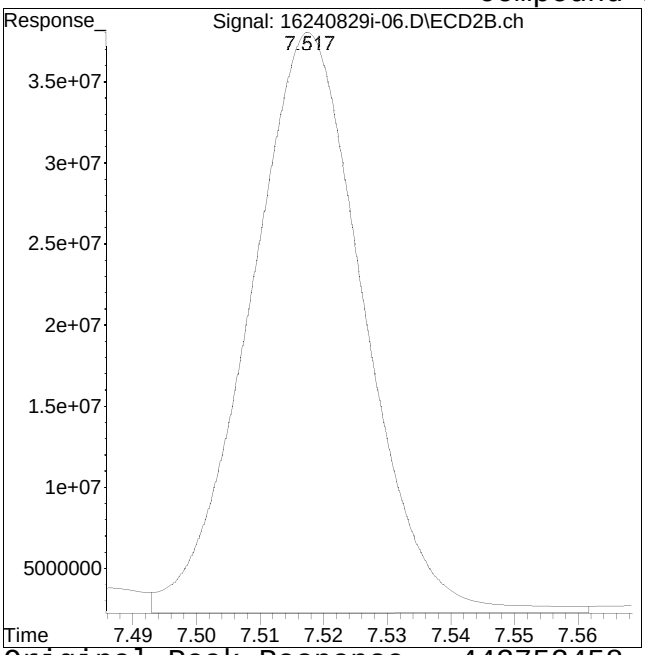


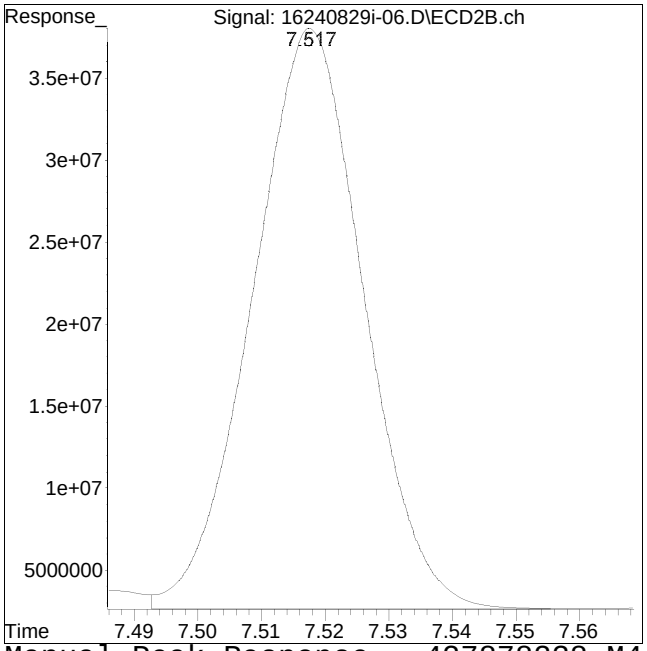
Original Peak Response = 278025914 Manual Peak Response = 266539943 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #18: MCPP #2



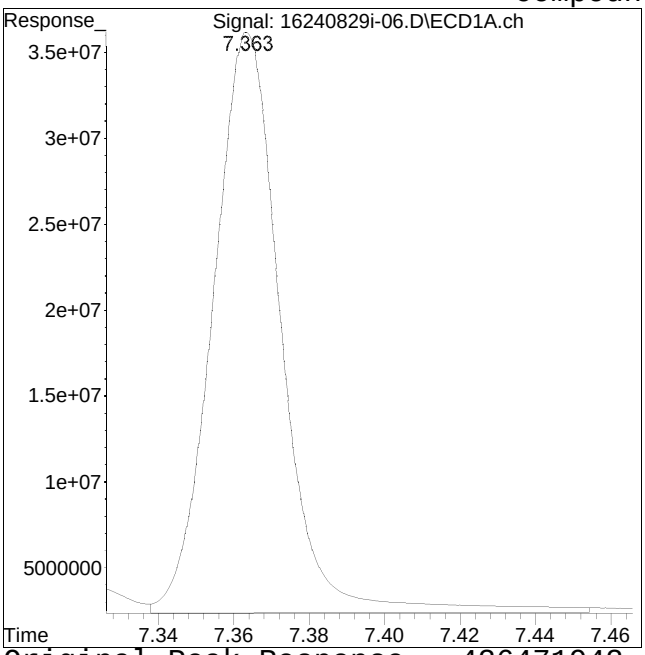


Original Peak Response = 443752458 Manual Peak Response = 427878238 M4
M4 = Poor automated baseline construction.

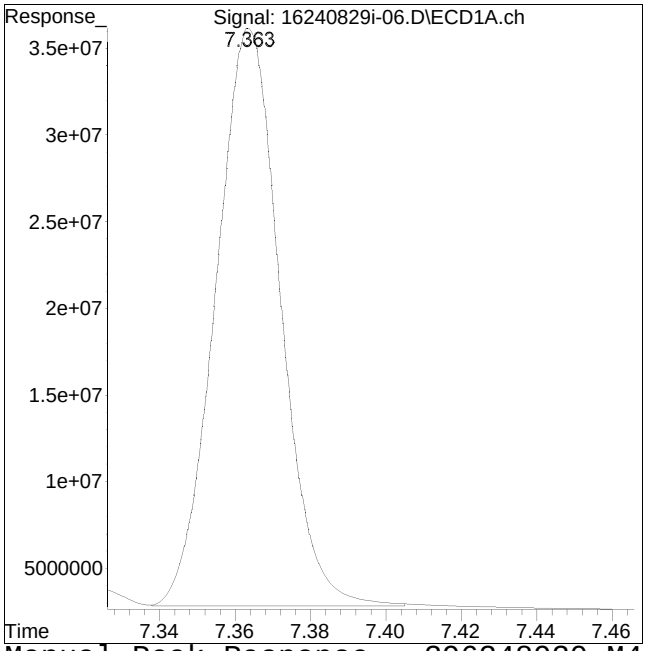
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #6: MCPA



Original Peak Response = 426471942



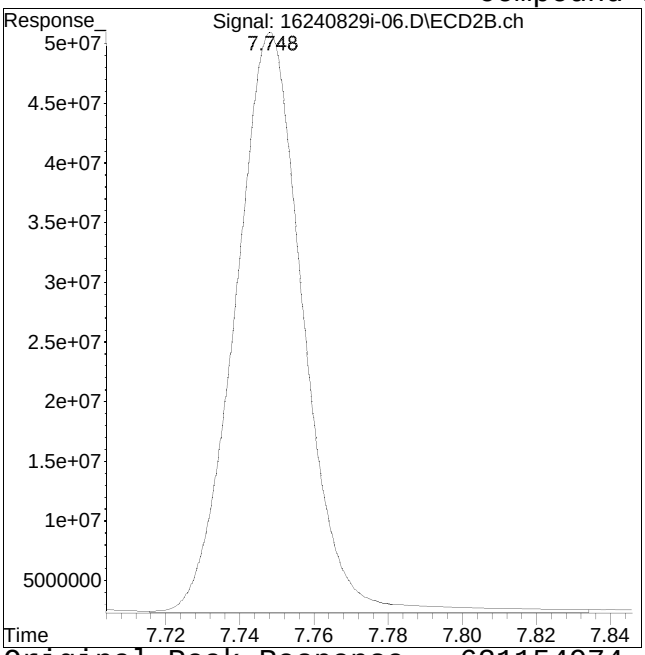
Manual Peak Response = 396348930 M4

M4 = Poor automated baseline construction.

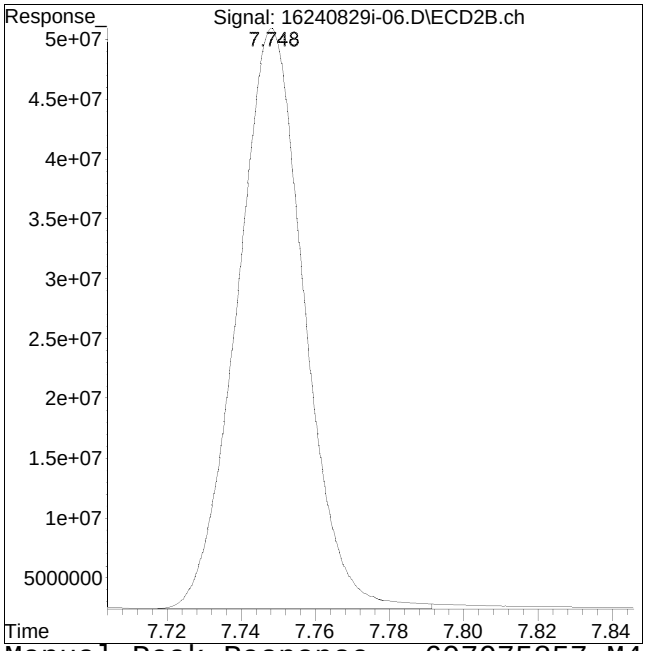
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #19: MCPA #2



Original Peak Response = 621154974



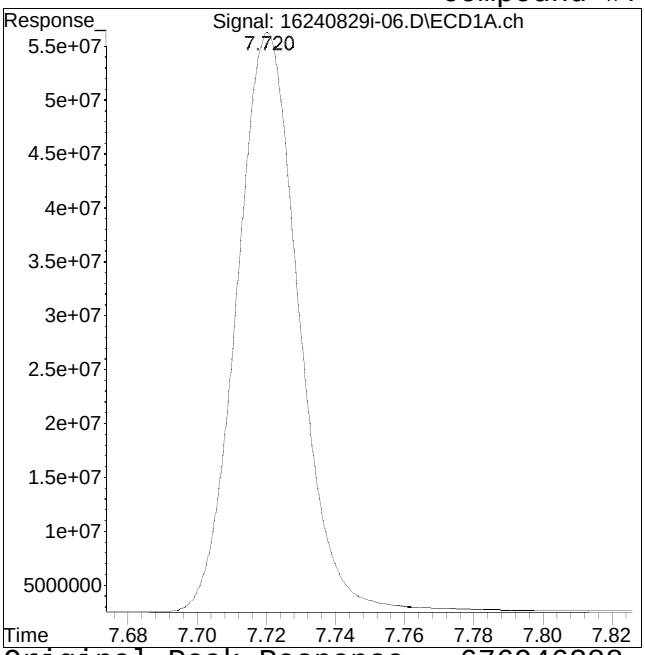
Manual Peak Response = 607075857 M4

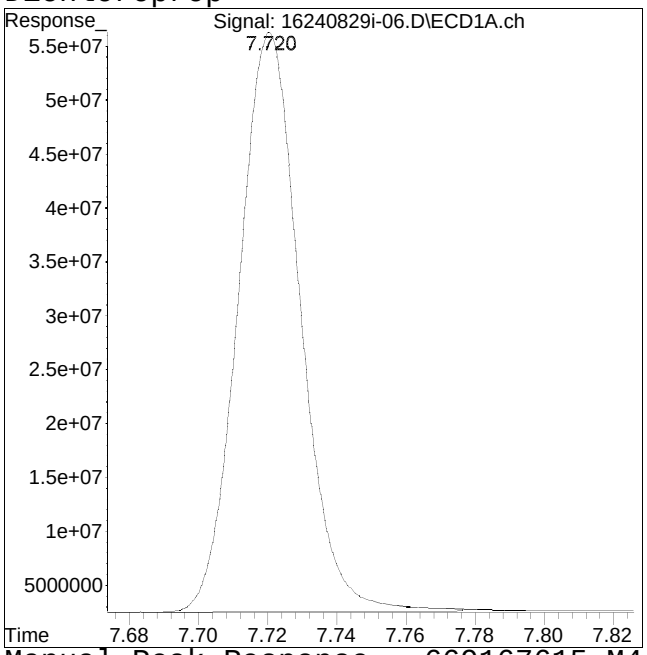
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #7: Dichloroprop



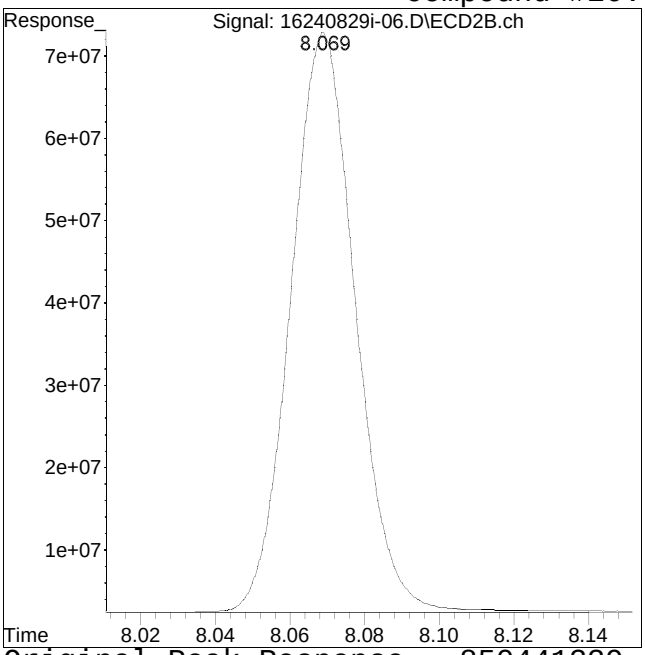


Original Peak Response = 676946388 Manual Peak Response = 669167615 M4
M4 = Poor automated baseline construction.

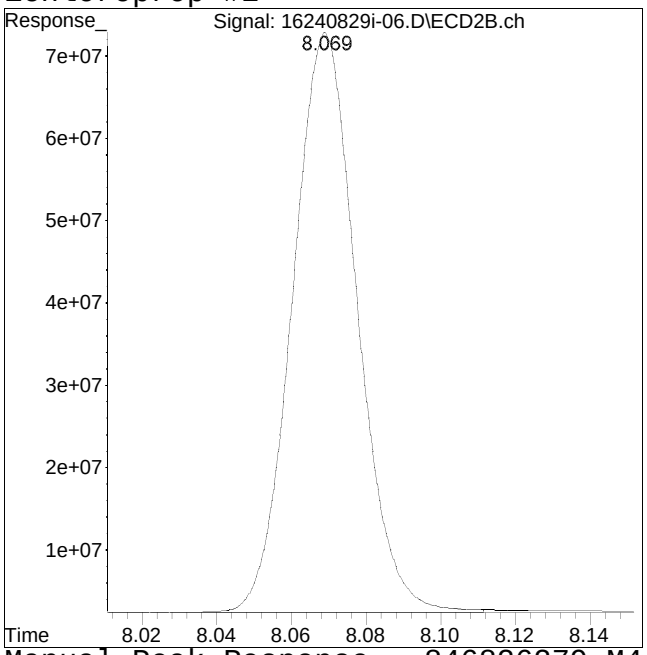
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #20: Dichloroprop #2



Original Peak Response = 850441339



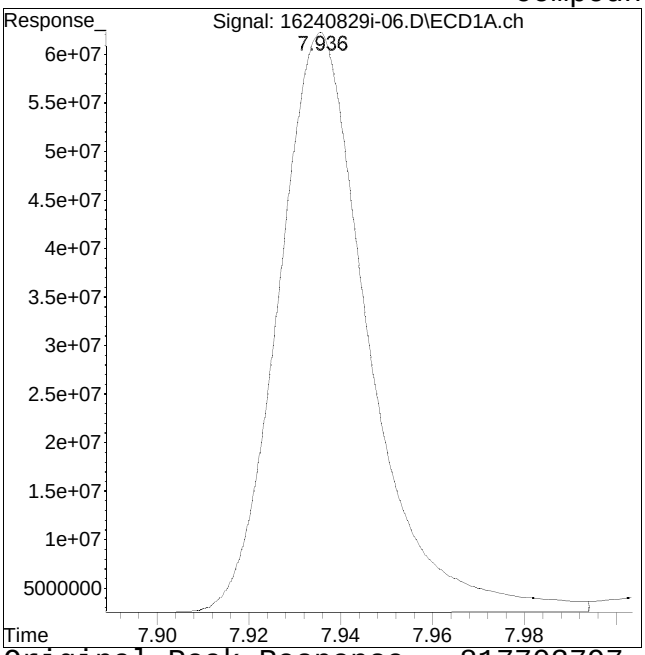
Manual Peak Response = 846826279 M4

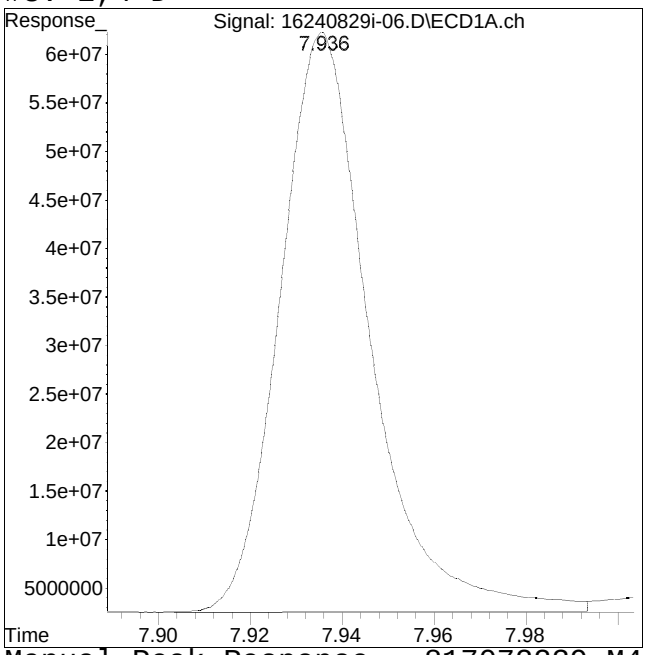
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #8: 2,4-D



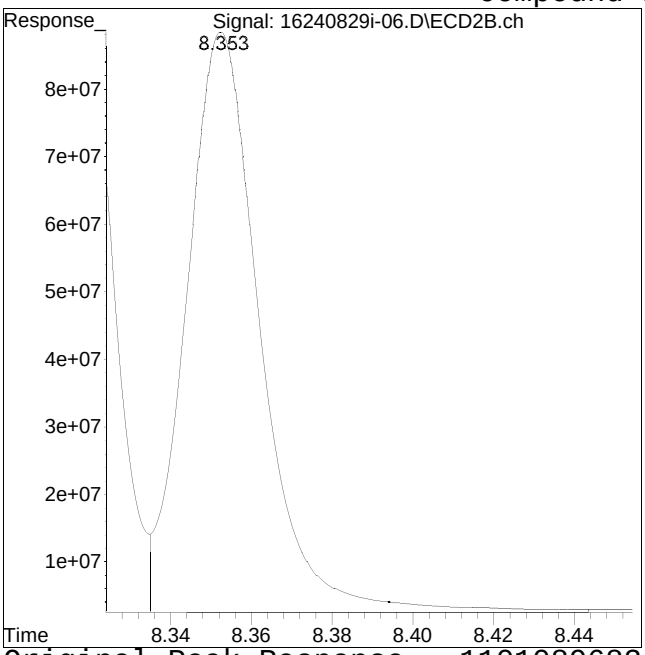


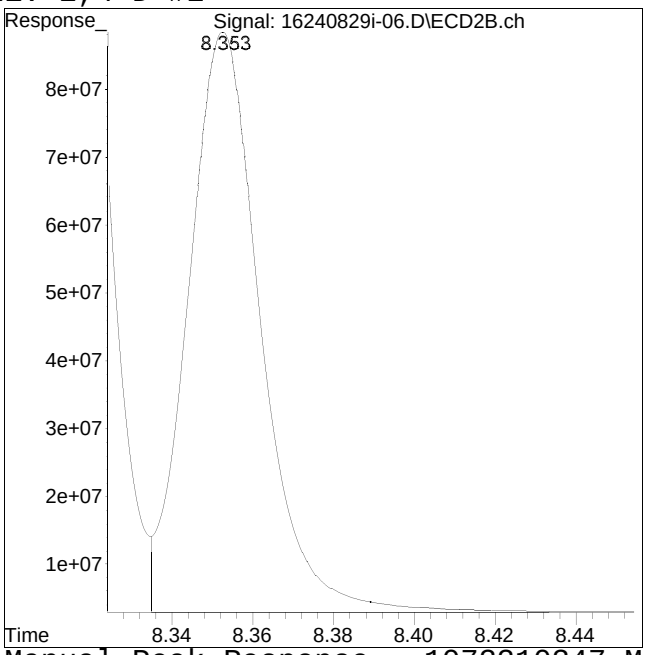
Original Peak Response = 817703797 Manual Peak Response = 817072239 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #21: 2,4-D #2



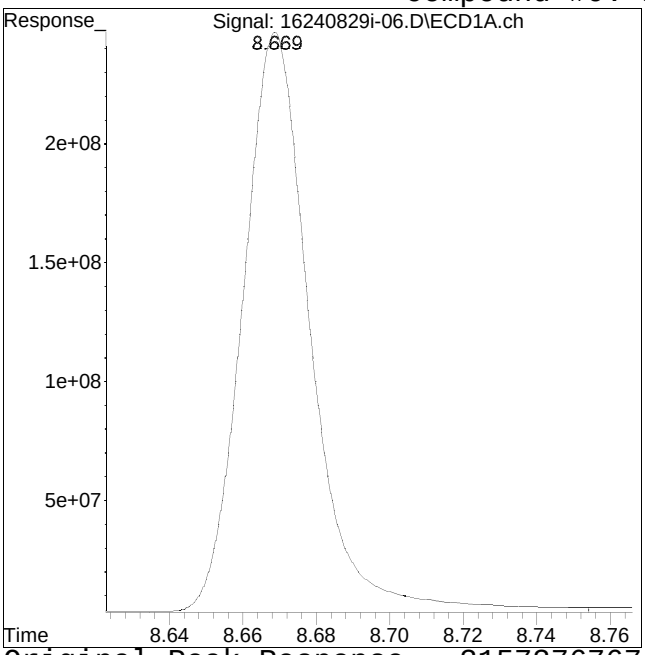


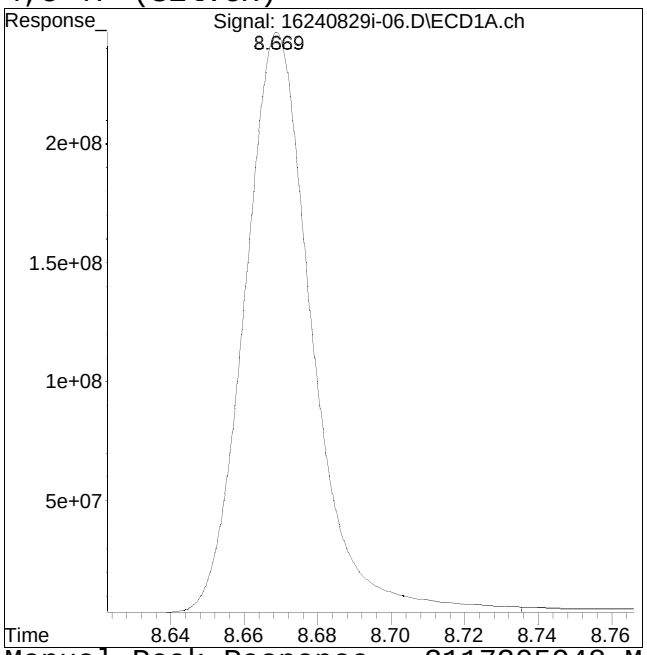
Original Peak Response = 1101089683 Manual Peak Response = 1073310347 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #9: 2,4,5-TP (Silvex)



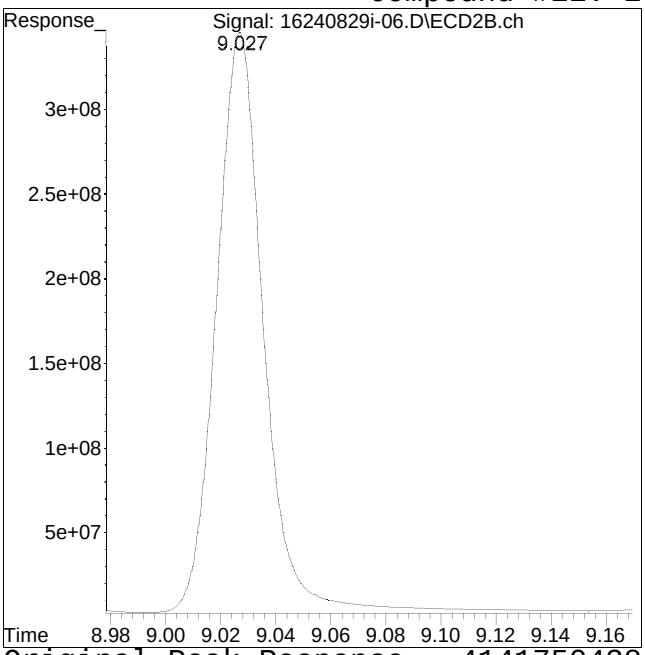


Original Peak Response = 3157376767 Manual Peak Response = 3117305948 M4
M4 = Poor automated baseline construction.

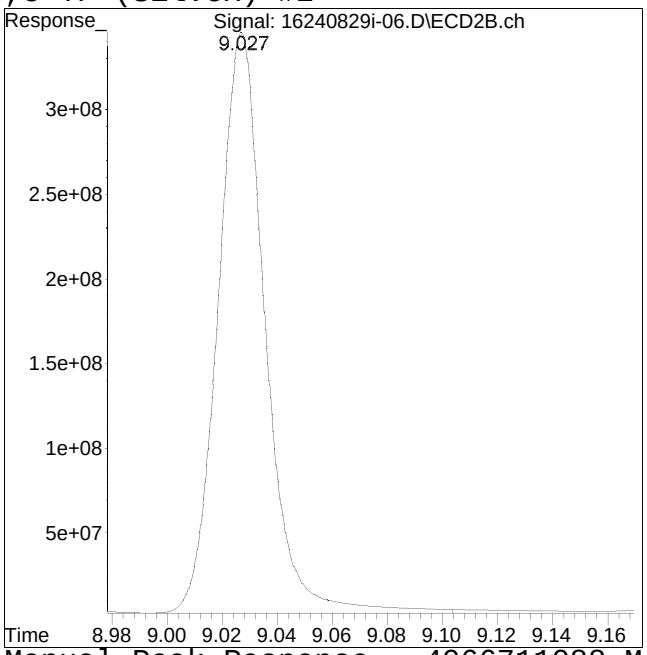
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 4141750438



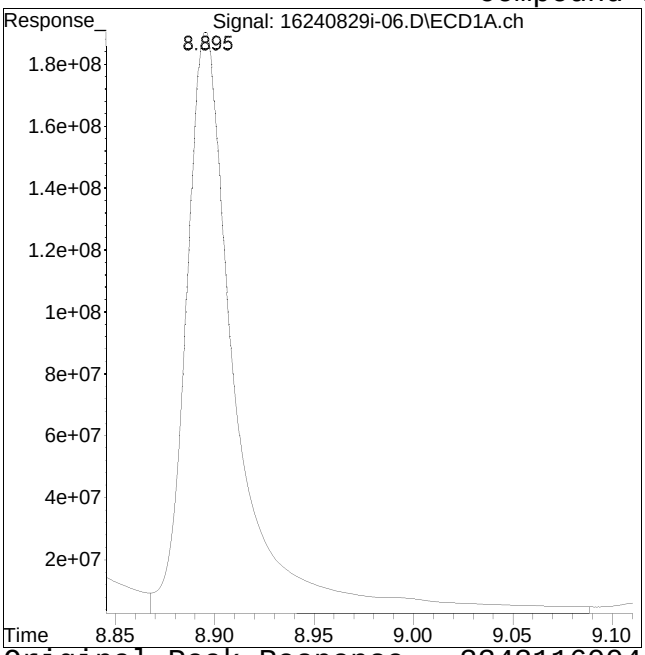
Manual Peak Response = 4066711088 M4

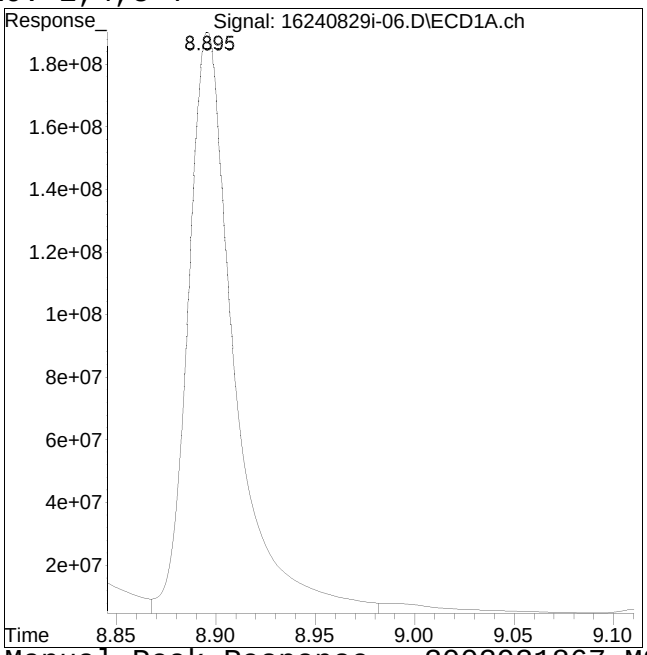
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #10: 2,4,5-T



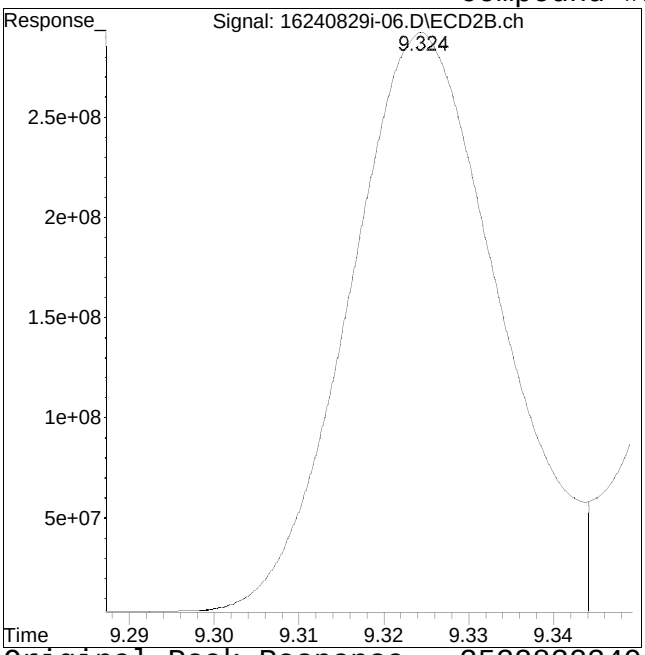


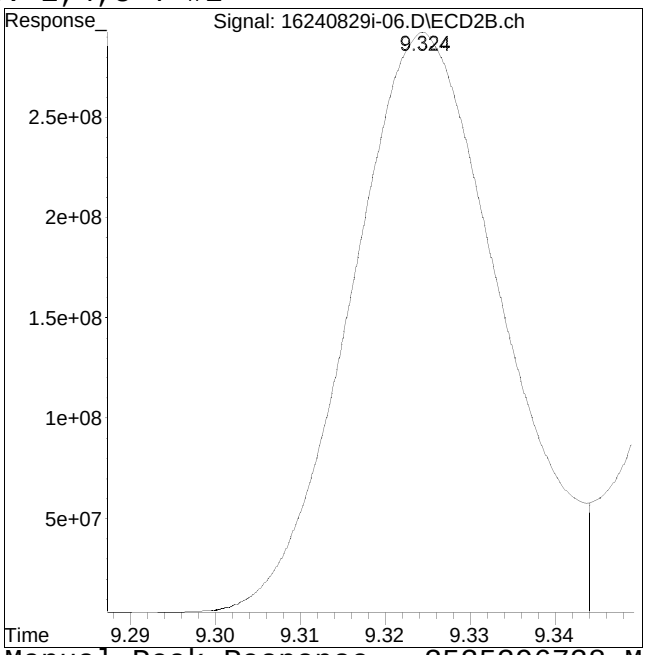
Original Peak Response = 3343116004 Manual Peak Response = 3003931867 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #23: 2,4,5-T #2



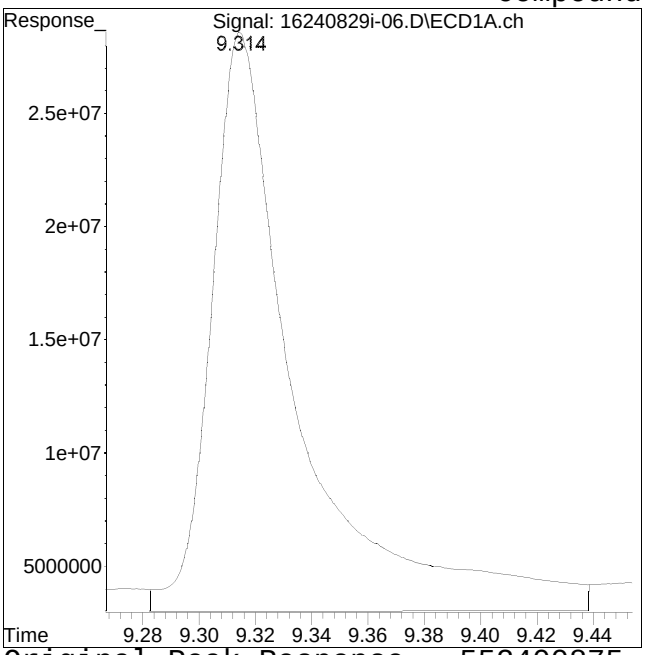


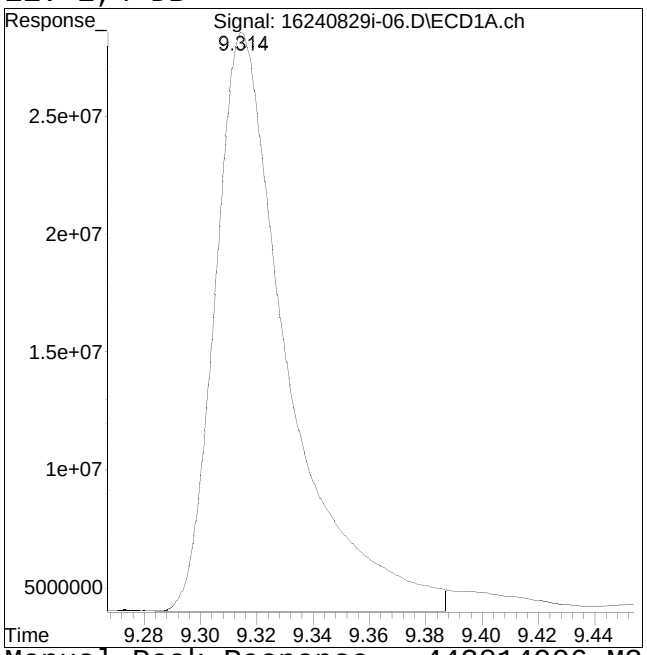
Original Peak Response = 3532832349 Manual Peak Response = 3535396738 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #11: 2,4-DB



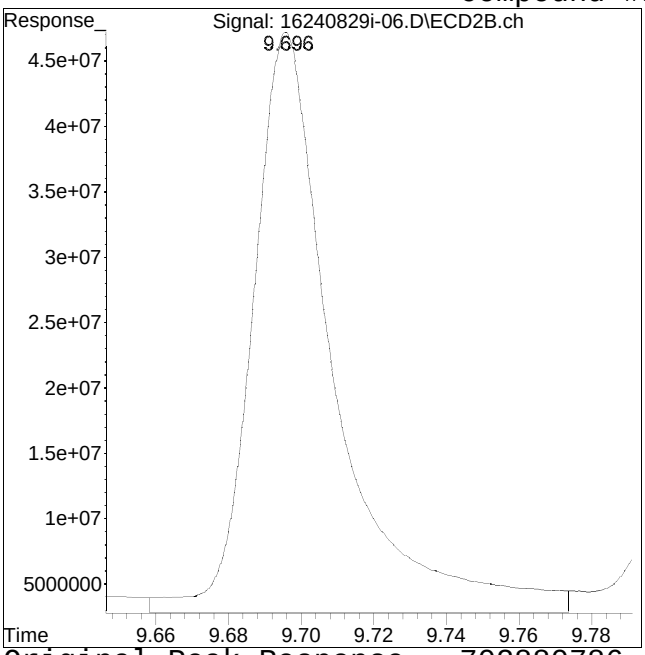


Original Peak Response = 552400875 Manual Peak Response = 442814906 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

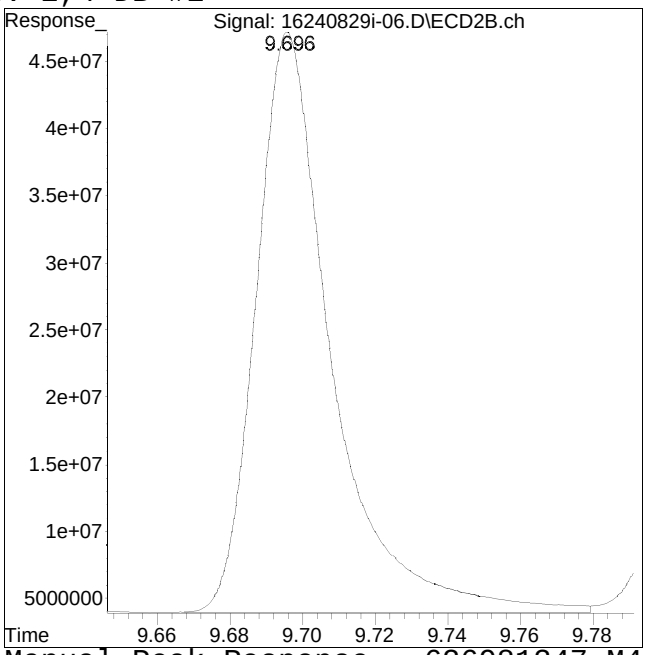
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #24: 2,4-DB #2



Original Peak Response = 702880786



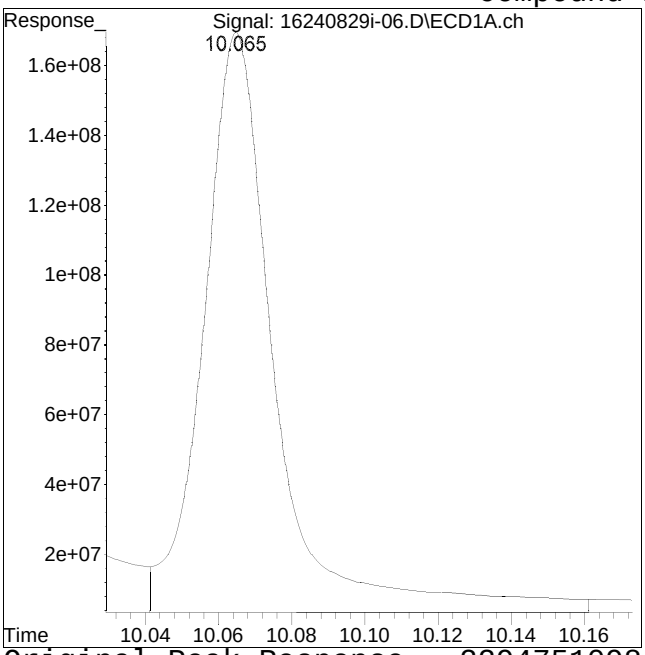
Manual Peak Response = 626981347 M4

M4 = Poor automated baseline construction.

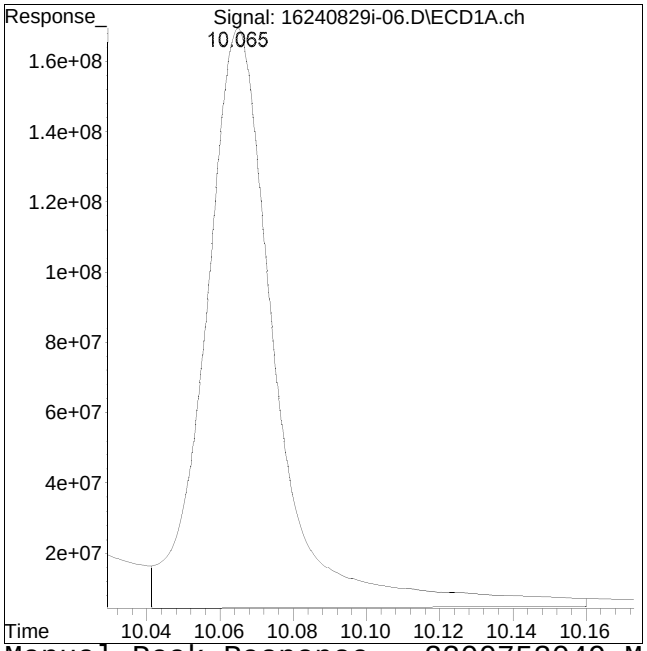
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #12: Dinoseb



Original Peak Response = 2294751098



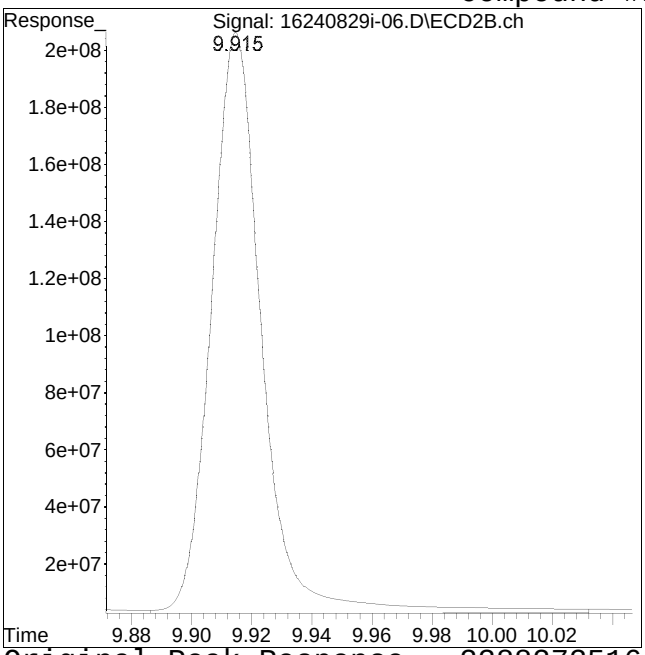
Manual Peak Response = 2200753049 M4

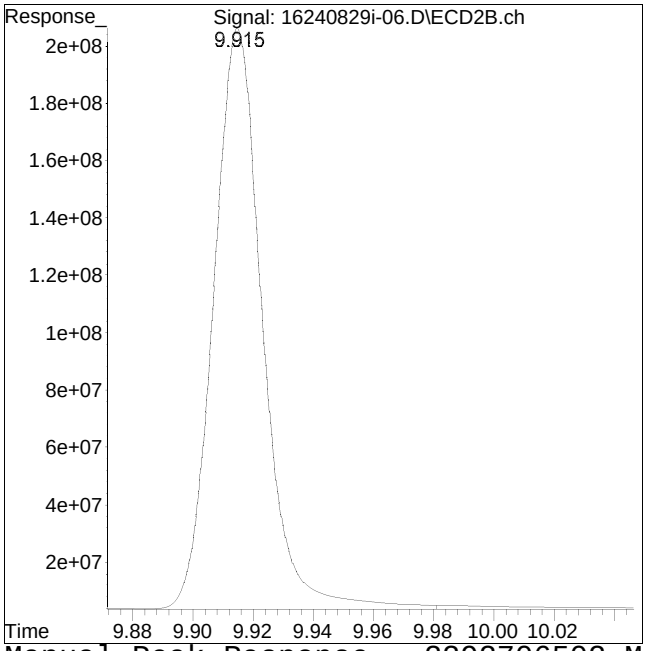
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-06.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:05 pm Instrument : PEST16
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 8/30/2024 9:03 am

Compound #25: Dinoseb #2





Original Peak Response = 2388273516 Manual Peak Response = 2292706502 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:25 pm
Operator : pest16:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:57:17 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:56:54 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
	Internal Standards						
1) i	4,4'-DBOB	8.394	8.316	1207.6E6	1455.4E6	0.250	0.250
	System Monitoring Compounds						
3) s	DCAA (surrog	6.820	7.217	1386.3E6	1728.6E6	1.523M4	1.559
	Spiked Amount	0.500	Range 30 - 150		Recovery =	304.60%#	311.80%#
	Target Compounds						
2) t	Dalapon	1.816	1.774	1512.6E6	1724.7E6	1.523	1.531
4) t	Dicamba	7.004	7.396	4690.9E6	5513.5E6	1.644M3	1.670M4
5) t	MCPP	7.217	7.521	560.9E6	819.1E6	177.876M4	186.193M4
6) t	MCPA	7.368	7.752	843.3E6	1156.6E6	166.099M4	184.510
7) t	Dichloroprop	7.721	8.069	1349.5E6	1673.2E6	1.555	1.584
8) t	2,4-D	7.935	8.353	1669.2E6	2185.7E6	1.724	1.631
9) t	2,4,5-TP (Si	8.669	9.026	6556.8E6	8344.6E6	1.754	1.764M3
10) t	2,4,5-T	8.892f	9.323	6439.1E6	7724.2E6	1.746M4	2.128
11) t	2,4-DB	9.309f	9.693	954.1E6	1291.7E6	1.900M4	1.866M4
12) t	Dinoseb	10.065	9.915	4567.7E6	4743.0E6	1.554M4	1.789M4

SemiQuant Compounds - Not Calibrated on this Instrument

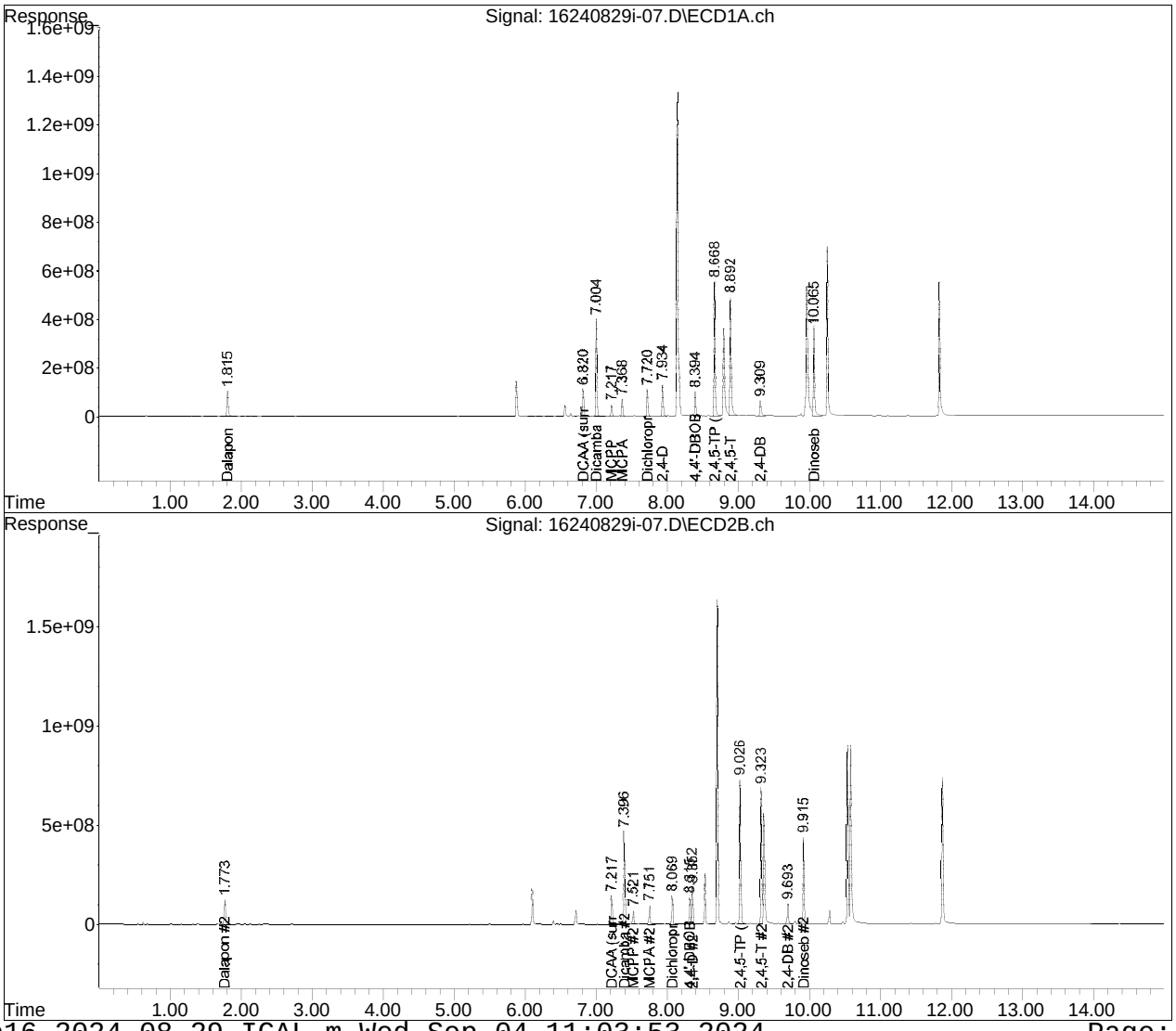
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:25 pm
Operator : pest16:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1967371, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:57:17 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:56:54 2024
Response via : Initial Calibration
Integrator: ChemStation

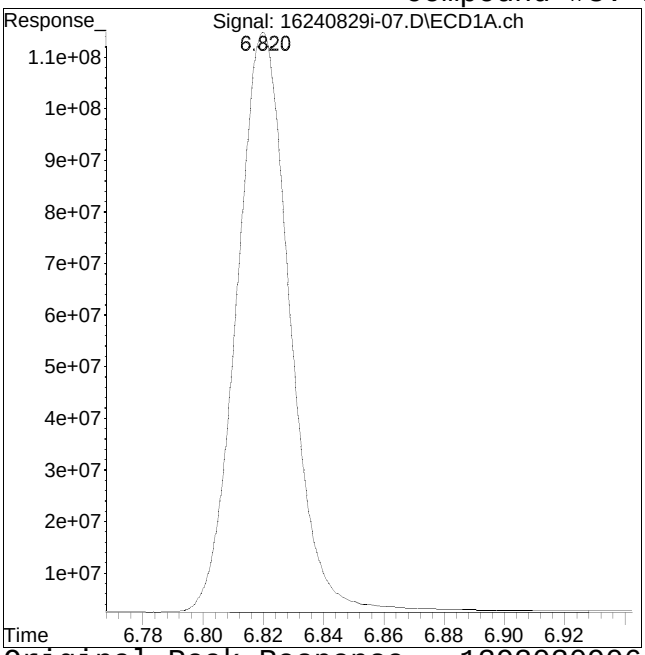
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

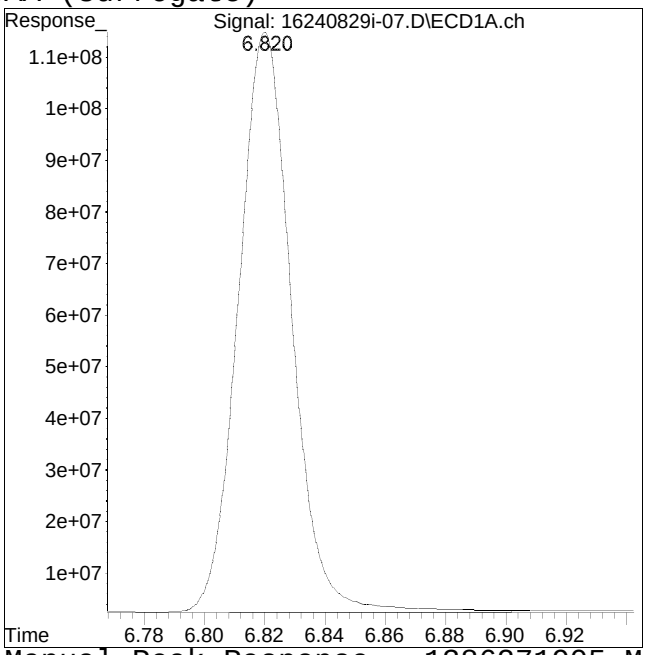


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #3: DCAA (surrogate)



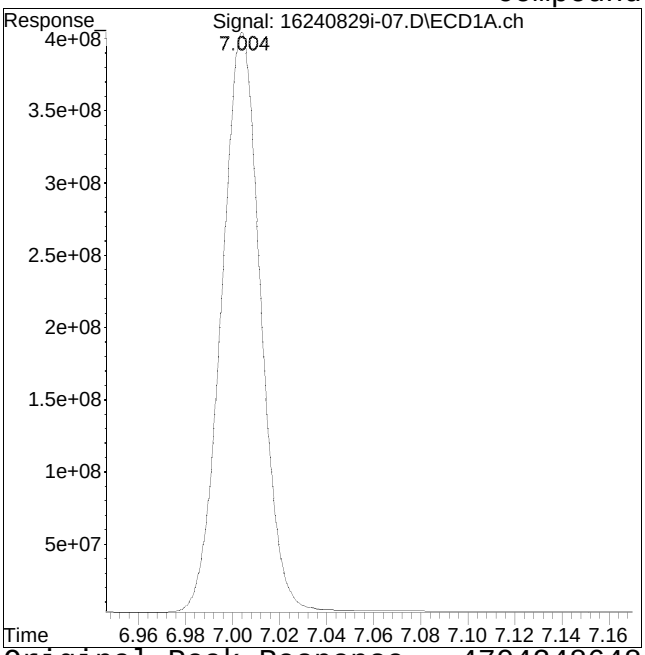


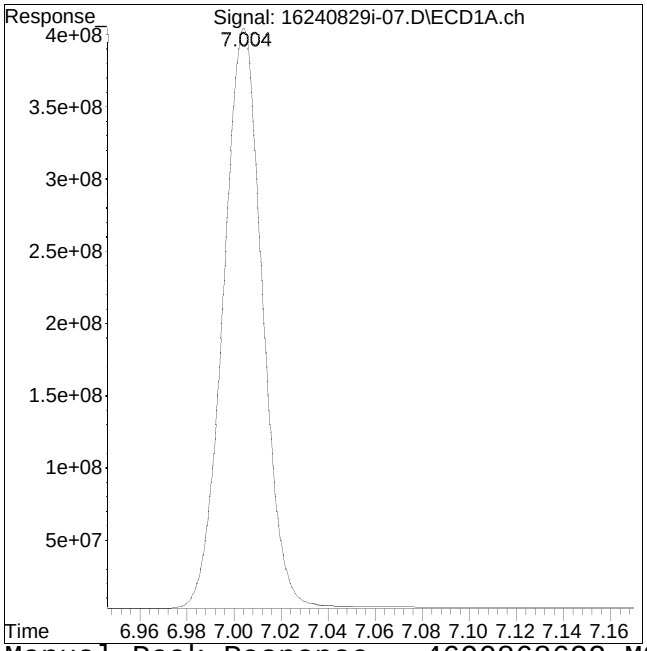
Original Peak Response = 1393030906 Manual Peak Response = 1386271905 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #4: Dicamba



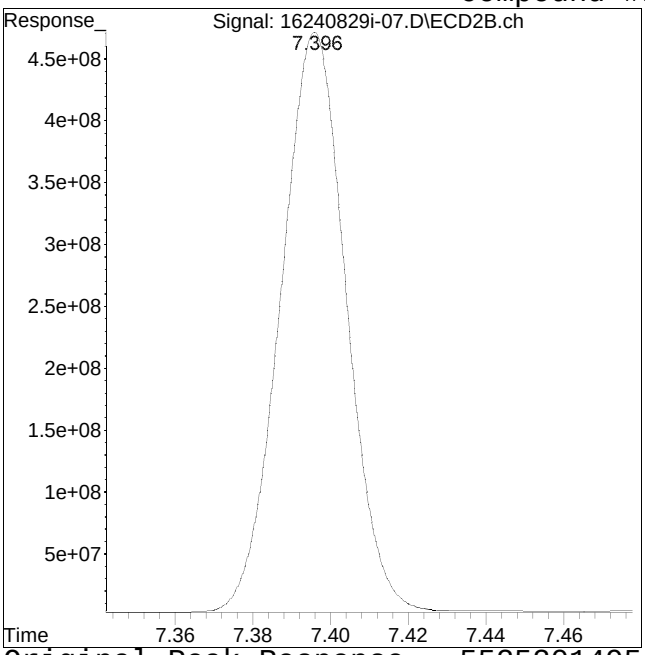


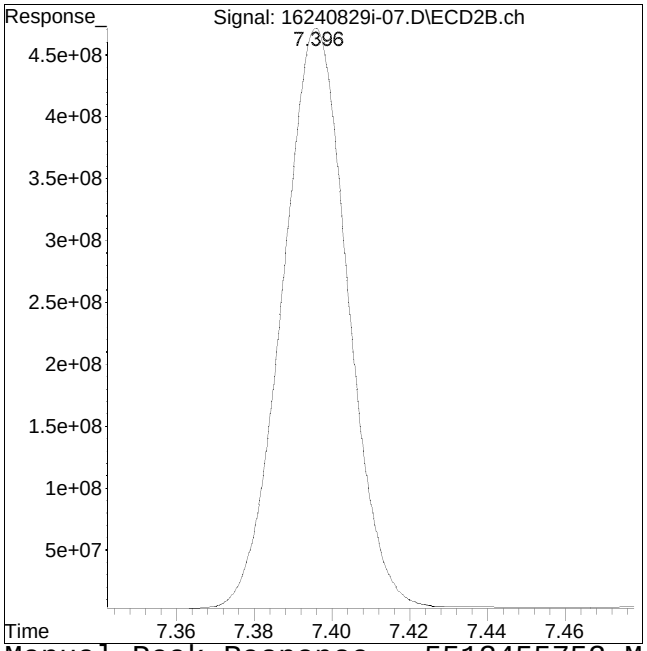
Original Peak Response = 4704248648 Manual Peak Response = 4690868622 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #17: Dicamba #2



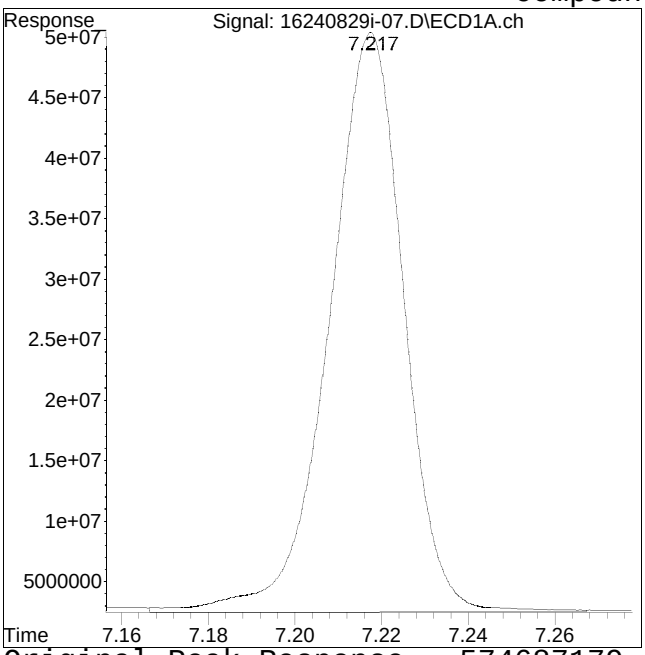


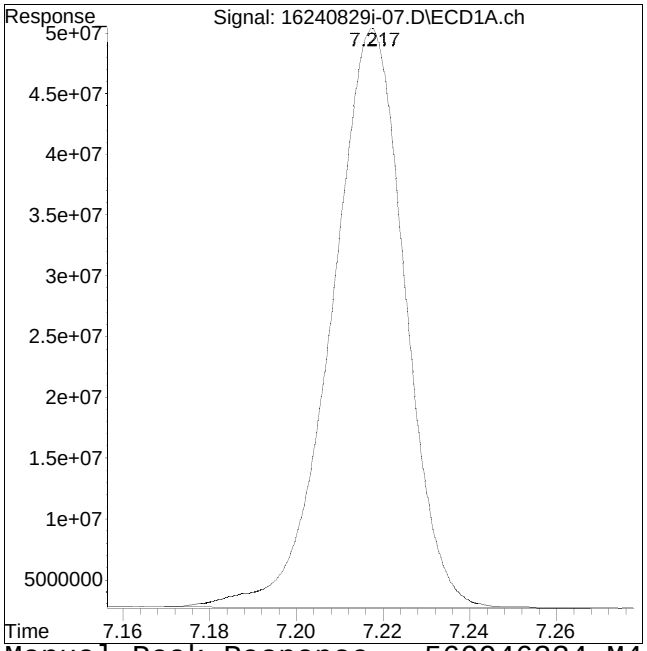
Original Peak Response = 5525201495 Manual Peak Response = 5513455753 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #5: MCPP



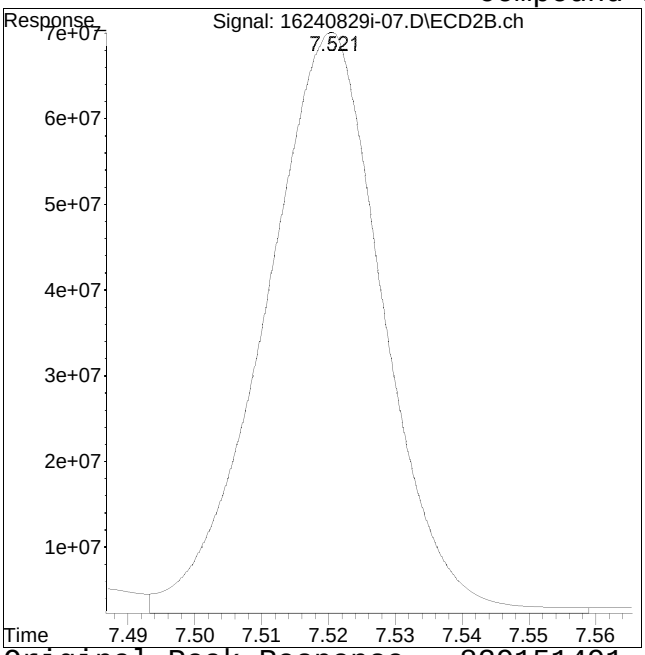


Original Peak Response = 574687179 Manual Peak Response = 560946334 M4
M4 = Poor automated baseline construction.

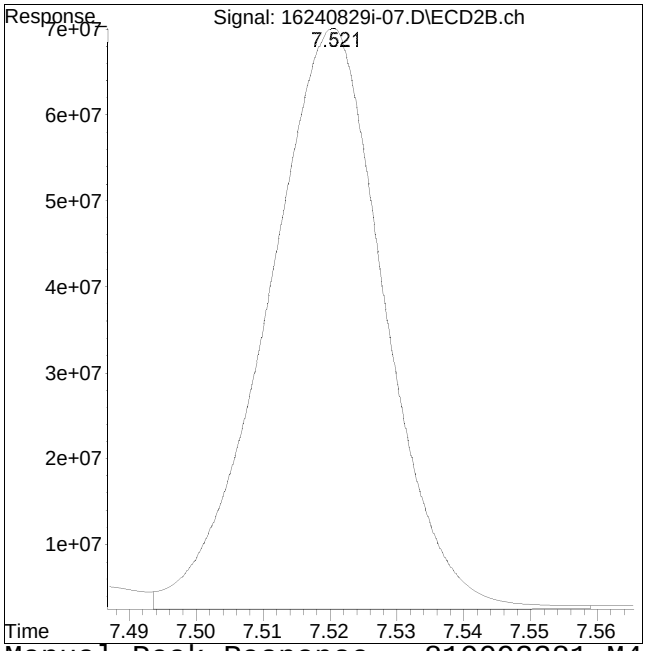
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #18: MCPP #2



Original Peak Response = 829151491



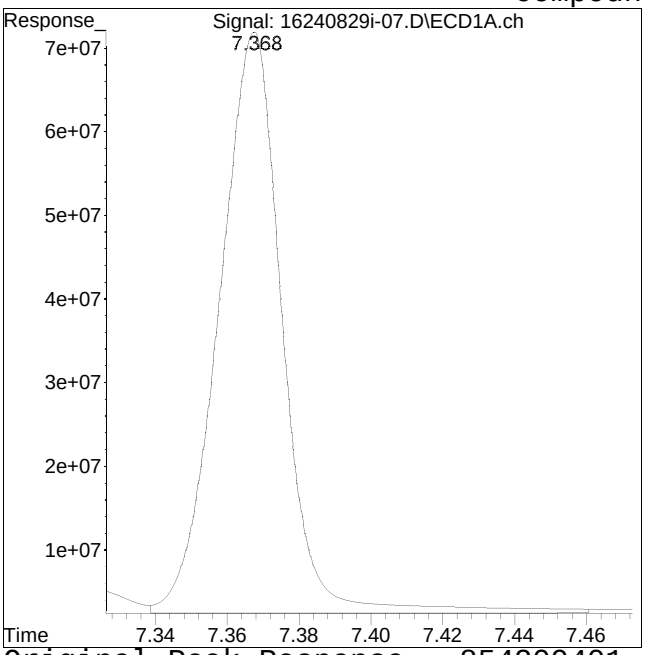
Manual Peak Response = 819093381 M4

M4 = Poor automated baseline construction.

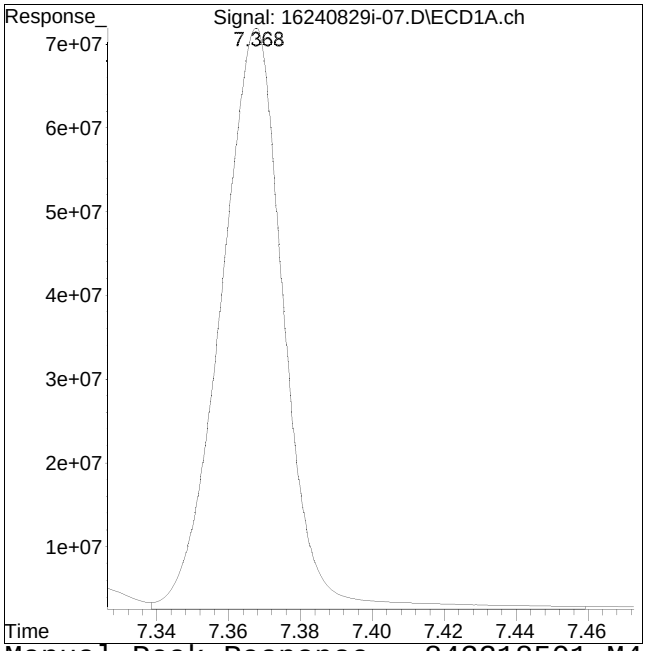
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #6: MCPA



Original Peak Response = 854209401



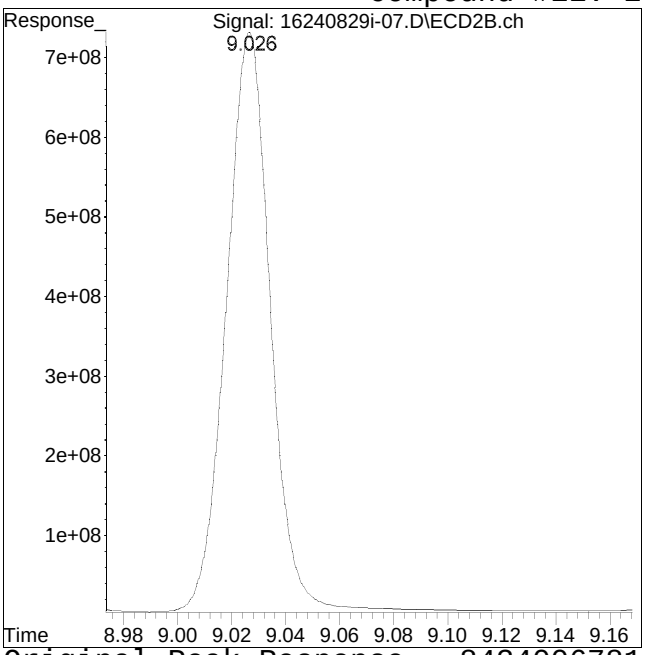
Manual Peak Response = 843318501 M4

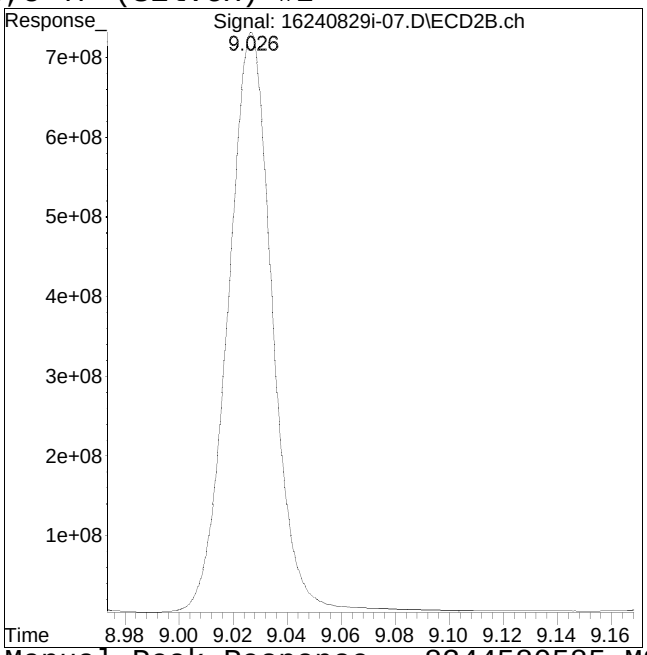
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #22: 2,4,5-TP (Silvex) #2



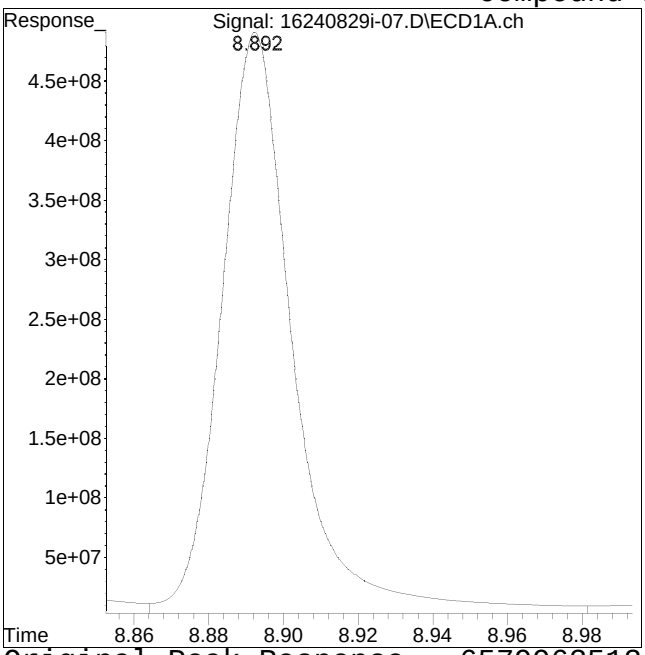


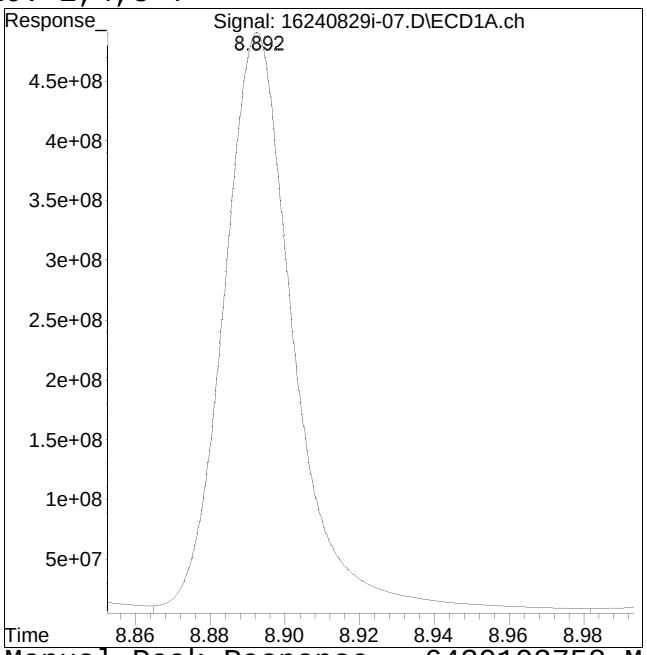
Original Peak Response = 8434006781 Manual Peak Response = 8344580585 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #10: 2,4,5-T



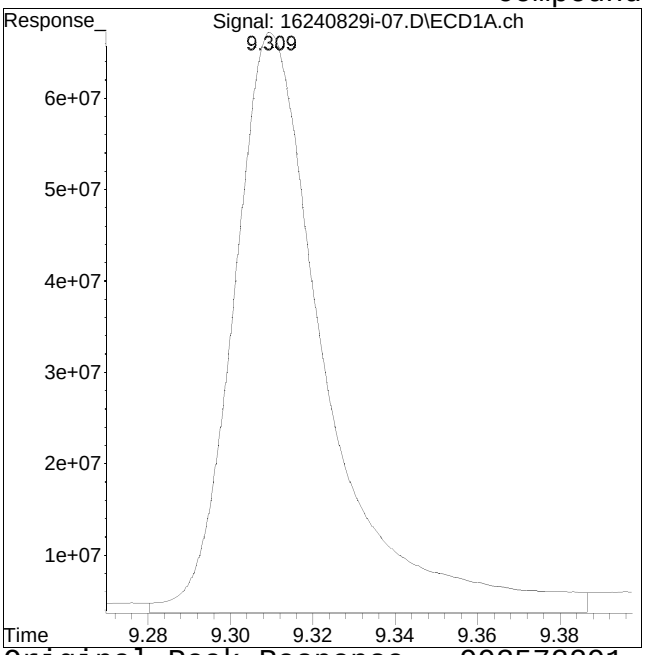


Original Peak Response = 6579963513 Manual Peak Response = 6439103758 M4
M4 = Poor automated baseline construction.

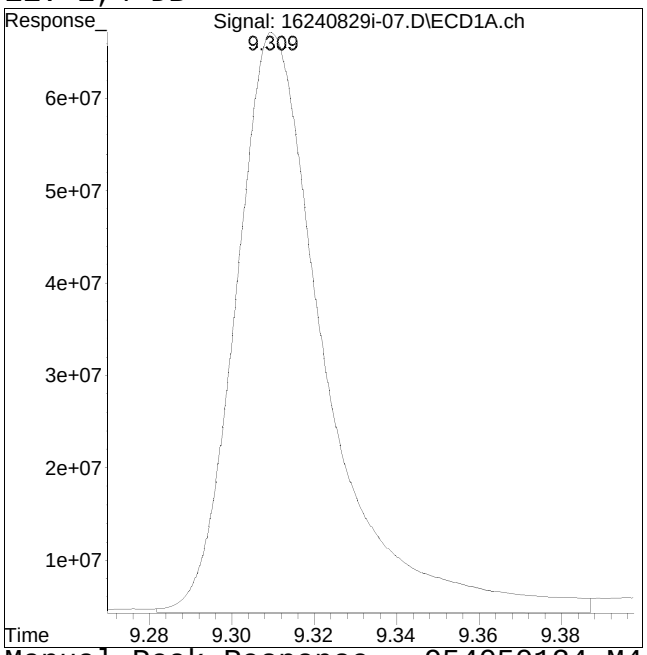
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #11: 2,4-DB



Original Peak Response = 993572291



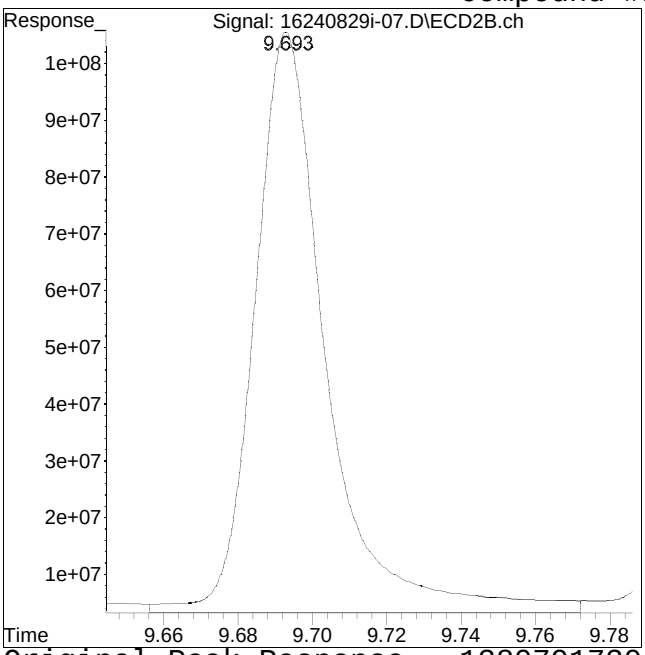
Manual Peak Response = 954050124 M4

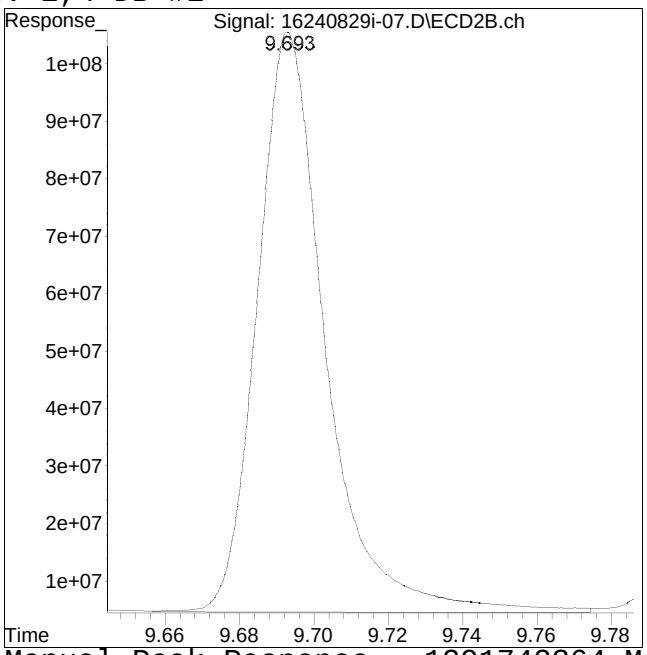
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #24: 2,4-DB #2



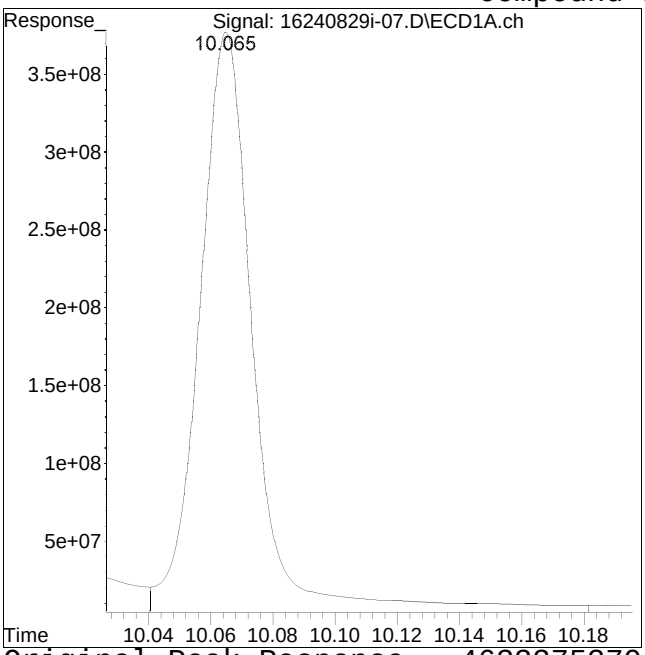


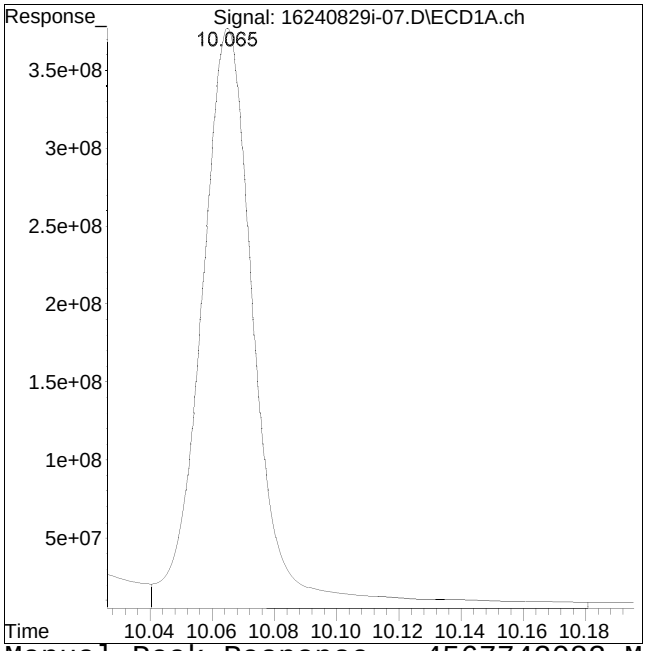
Original Peak Response = 1380791730 Manual Peak Response = 1291742364 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #12: Dinoseb



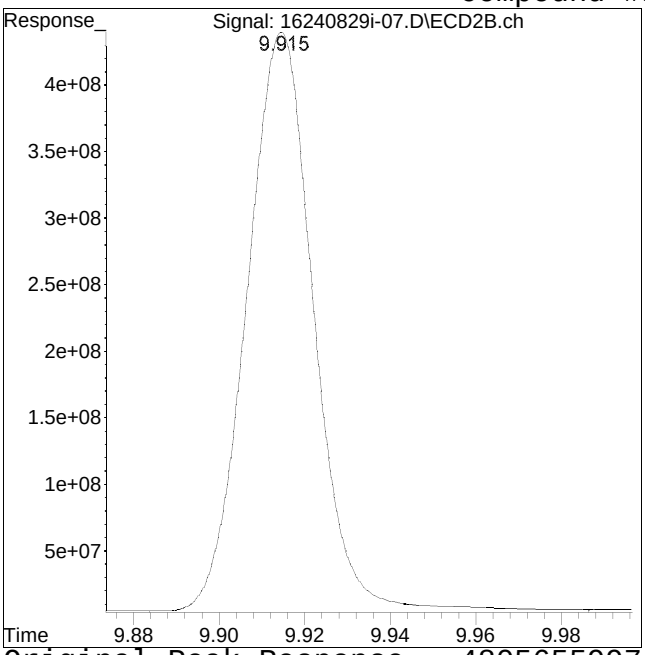


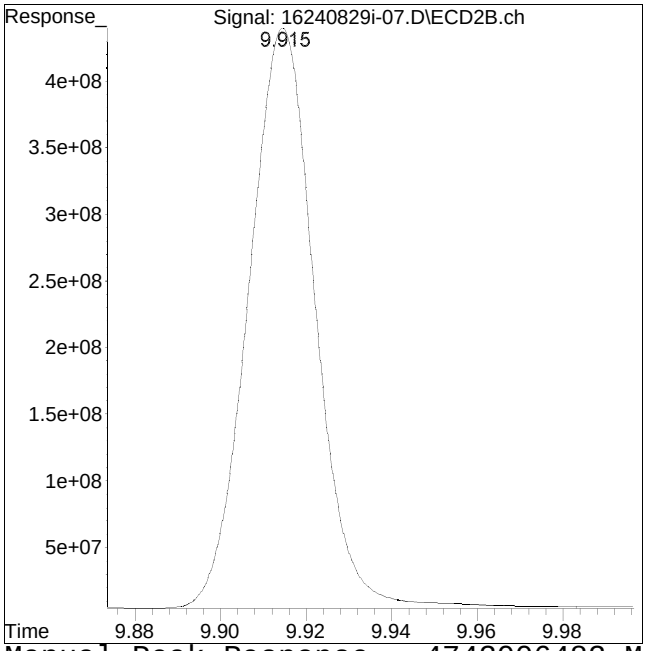
Original Peak Response = 4633375379 Manual Peak Response = 4567742083 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-07.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:25 pm Instrument : PEST16
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/4/2024 10:57 am

Compound #25: Dinoseb #2





Original Peak Response = 4805655997 Manual Peak Response = 4743006483 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 29 Aug 2024   2:45 pm
Operator : pest16:akm
Sample   : cicv,42e,,pp 11634 L0.2/20 ICV
Misc   : WG1967371,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:59:50 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:59:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	84	0.00
2	t	Dalapon		0.206	0.199	3.4	81	0.00
3	s	DCAA (surrogate)		0.187	0.186	0.5	80	0.00
4	t	Dicamba		0.588	0.584	0.7	82	0.00
5	t	MCPP		0.00065	0.00065	0.0	83	0.00
6	t	MCPA		0.00105	0.00114	-8.6	85	0.00
7	t	Dichloroprop		0.179	0.194	-8.4	87	0.00
8	t	2,4-D		0.199	0.200	-0.5	81	0.00
9	t	2,4,5-TP (Silvex)		0.768	0.744	3.1	79	0.00
10	t	2,4,5-T		0.760	0.756	0.5	82	0.00
11	t	2,4-DB		0.104	0.109	-4.8	84	0.00
12	t	Dinoseb		0.610	0.666	-9.2	81	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	86	0.00
2	t	Dalapon		0.194	0.202	-4.1	87	0.00
3	s	DCAA (surrogate)		0.191	0.197	-3.1	85	0.00
4	t	Dicamba		0.568	0.561	1.2	82	0.00
5	t	MCPP	*	18.800	20.377	-8.4	86	0.00
6	t	MCPA	*	18.600	19.976	-7.4	85	0.00
7	t	Dichloroprop		0.182	0.194	-6.6	88	0.00
8	t	2,4-D		0.231	0.230	0.4	83	0.00
9	t	2,4,5-TP (Silvex)		0.814	0.770	5.4	79	0.00
10	t	2,4,5-T		0.624	0.577	7.5	81	0.00
11	t	2,4-DB		0.119	0.111	6.7	78	0.00
12	t	Dinoseb		0.456	0.457	-0.2	84	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 29 Aug 2024   2:45 pm
Operator : pest16:akm
Sample   : cicv,42e,,pp 11634 L0.2/20 ICV
Misc   : WG1967371,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:59:50 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:59:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:45 pm
Operator : pest16:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1967371,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:59:50 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:59:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.394	8.316	959.5E6	1264.4E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.821	7.217	134.6E6	187.3E6	0.187M4	0.194
		Spiked Amount	0.500	Range 30 - 150		Recovery =	37.40%	38.80%
		Target Compounds						
2)	t	Dalapon	1.817	1.774	139.3E6	185.7E6	0.176	0.189M4
4)	t	Dicamba	7.004	7.395	421.1E6	533.6E6	0.187M4	0.186M4
5)	t	MCPP	7.214	7.516	47215984	104.6E6	18.959	20.377M4
6)	t	MCPA	7.363	7.746	81253095	151.6E6	20.170	19.976M4
7)	t	Dichloroprop	7.721	8.069	140.2E6	184.8E6	0.204M4	0.201M4
8)	t	2,4-D	7.941	8.357	144.4E6	218.7E6	0.189M4	0.187M4
9)	t	2,4,5-TP (Si	8.673	9.029	542.8E6	740.1E6	0.184M4	0.180M4
10)	t	2,4,5-T	8.912	9.333	551.3E6	554.0E6	0.189M4	0.176
11)	t	2,4-DB	9.338	9.707	80493080	107.6E6	0.202M4	0.179M4
12)	t	Dinoseb	10.068	9.918	485.8E6	438.9E6	0.207M4	0.190

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:45 pm
Operator : pest16:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1967371,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:59:50 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:59:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

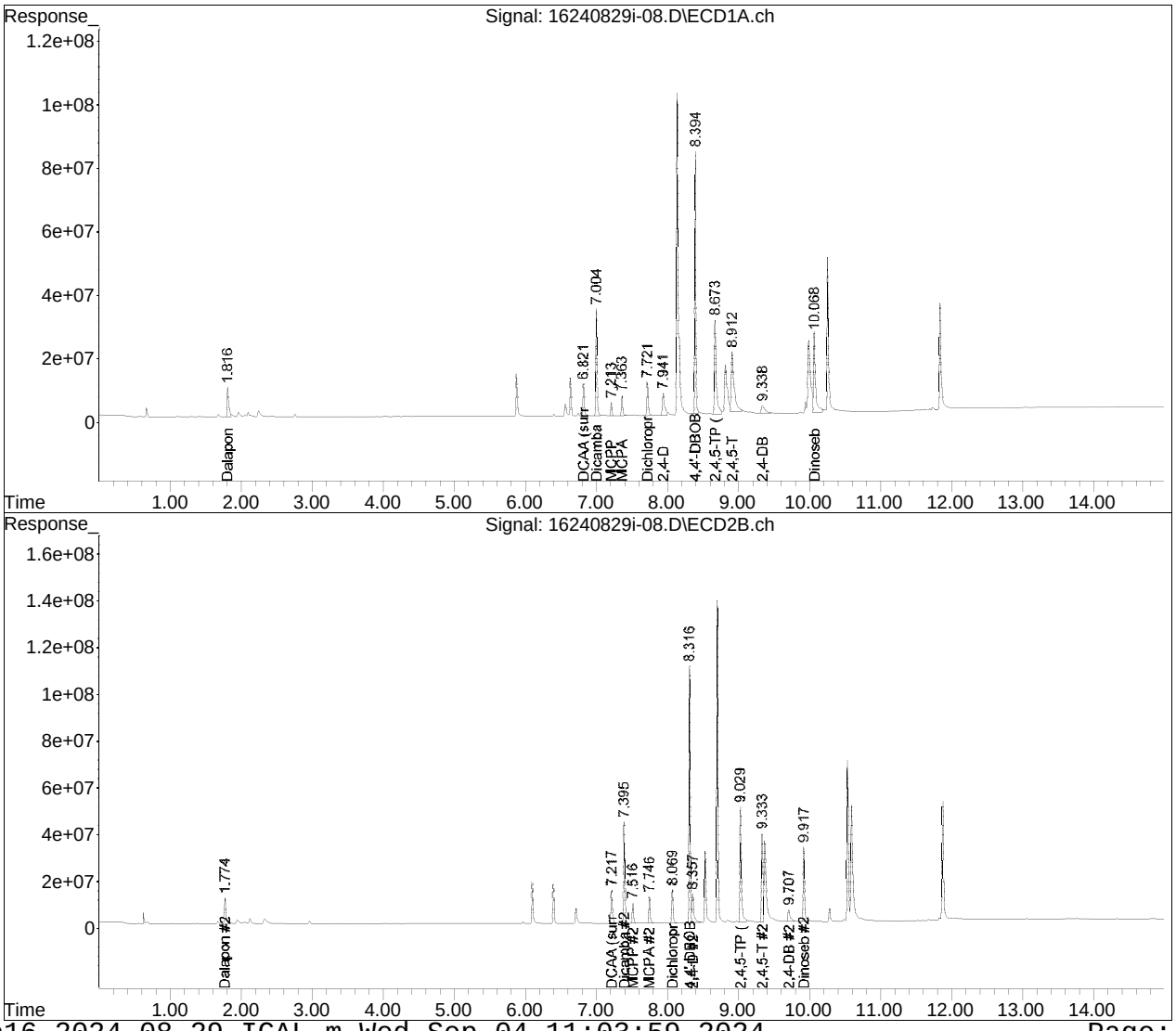
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240829ICAL\
Data File : 16240829i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Aug 2024 2:45 pm
Operator : pest16:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1967371,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 04 10:59:50 2024
Quant Method : I:\PCB\Pest16\2024\240829ICAL\Herb16_2024_08_29_ICAL.m
Quant Title : herb
QLast Update : Wed Sep 04 10:59:50 2024
Response via : Initial Calibration
Integrator: ChemStation

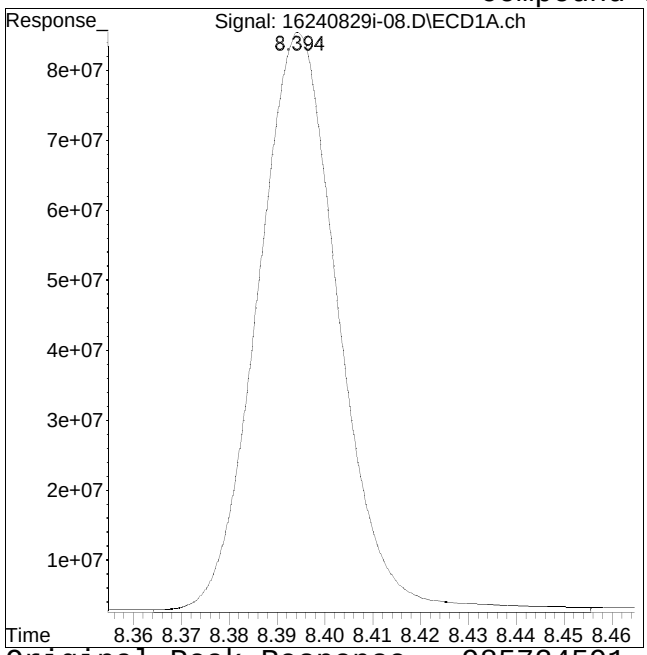
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



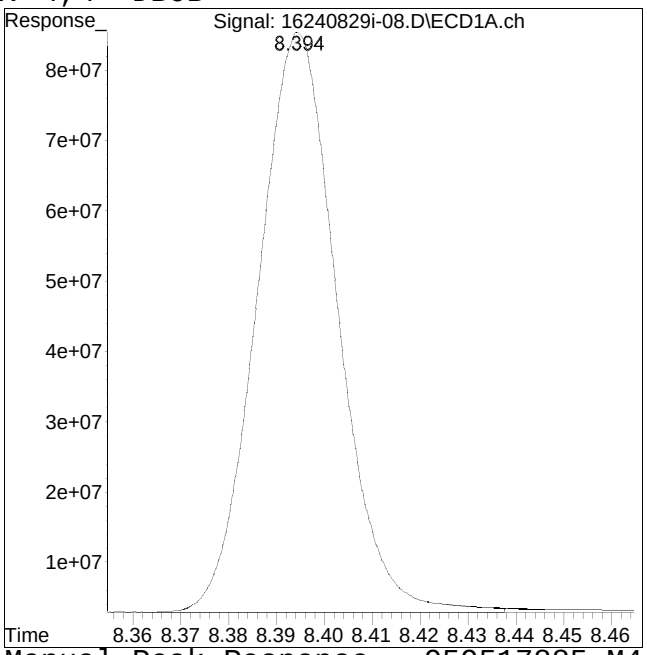
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #1: 4,4'-DBOB



Original Peak Response = 985724591



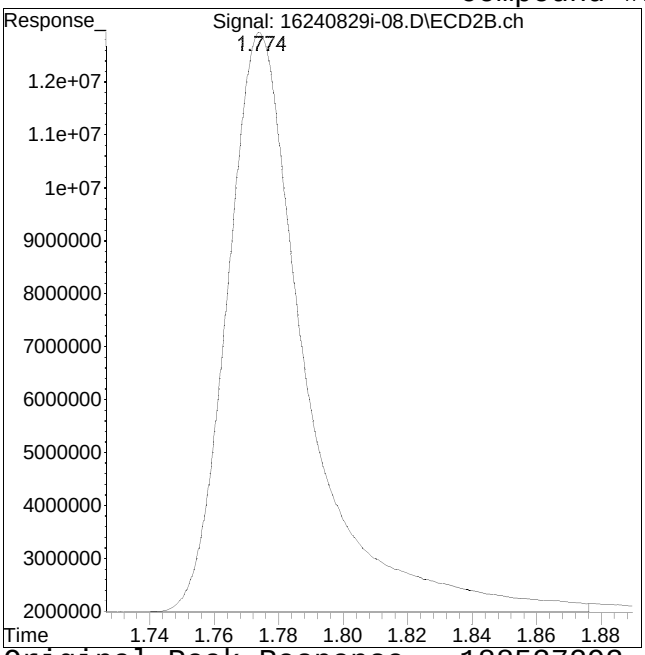
Manual Peak Response = 959517885 M4

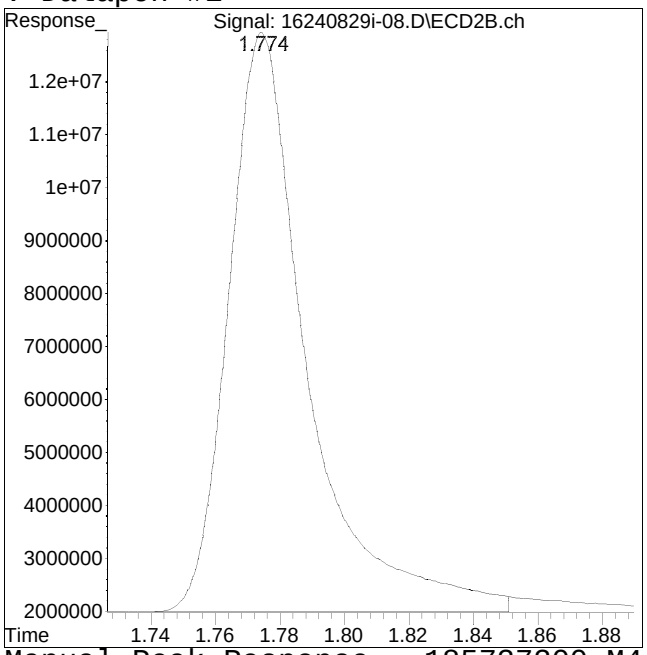
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #15: Dalapon #2



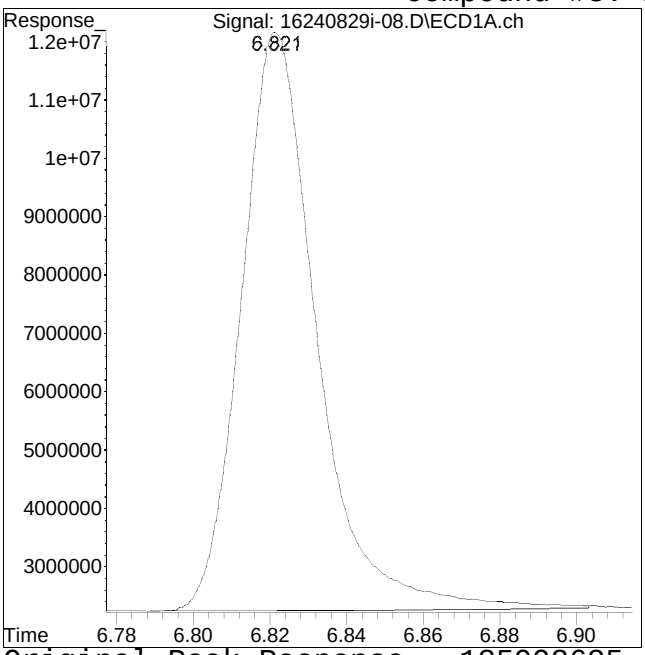


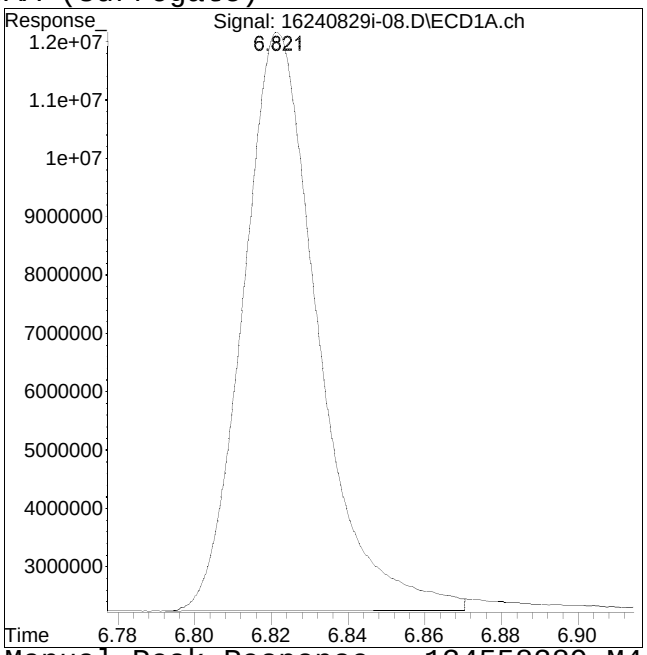
Original Peak Response = 188537293 Manual Peak Response = 185737300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #3: DCAA (surrogate)



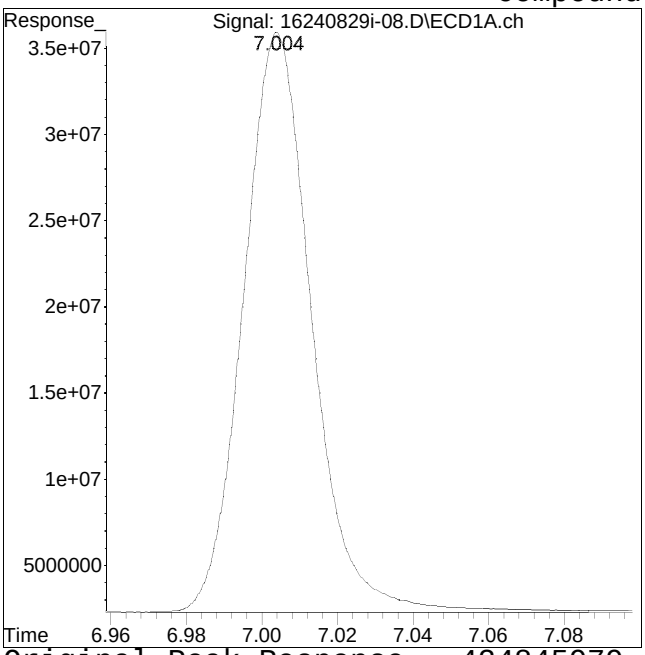


Original Peak Response = 135992625 Manual Peak Response = 134558389 M4
M4 = Poor automated baseline construction.

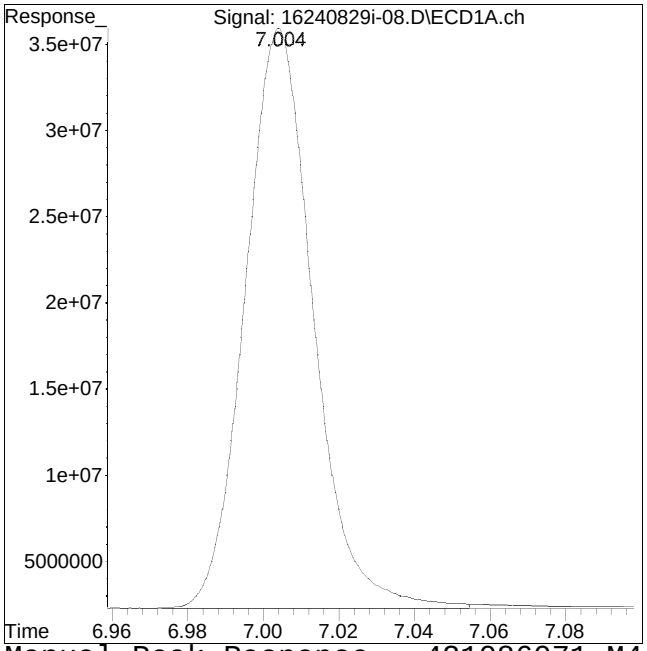
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #4: Dicamba



Original Peak Response = 424845979

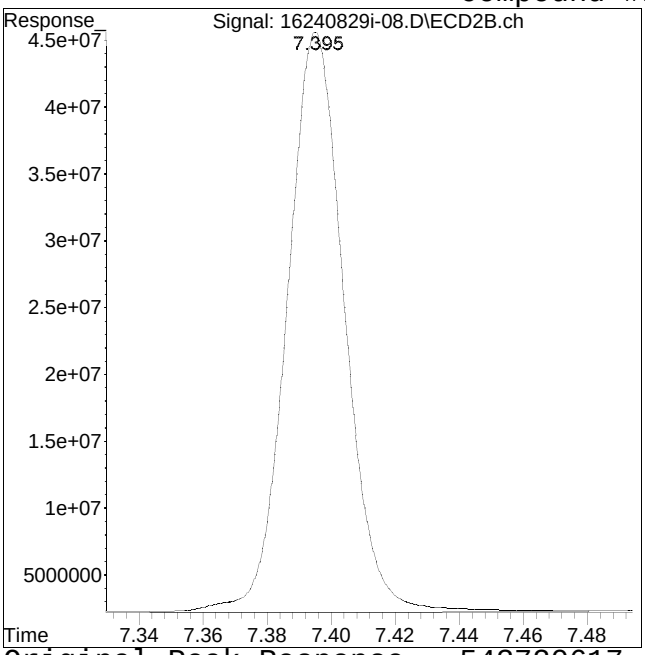


Manual Peak Response = 421086071 M4
M4 = Poor automated baseline construction.

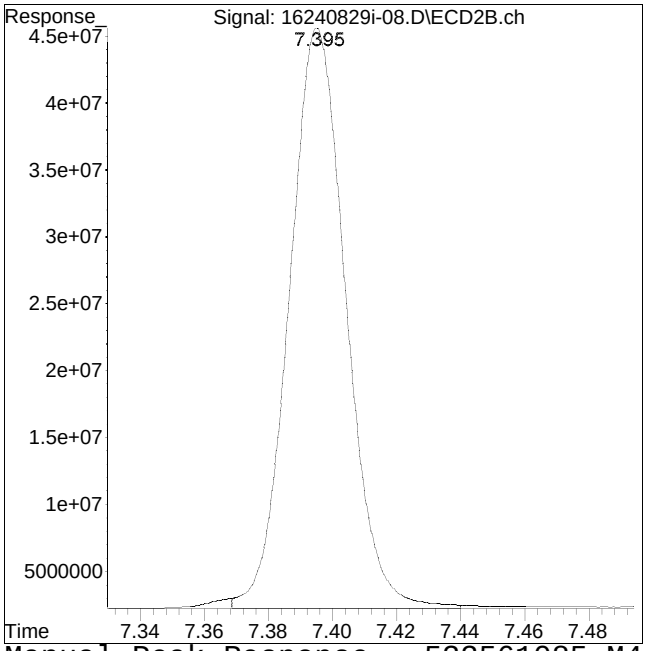
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #17: Dicamba #2



Original Peak Response = 543720617



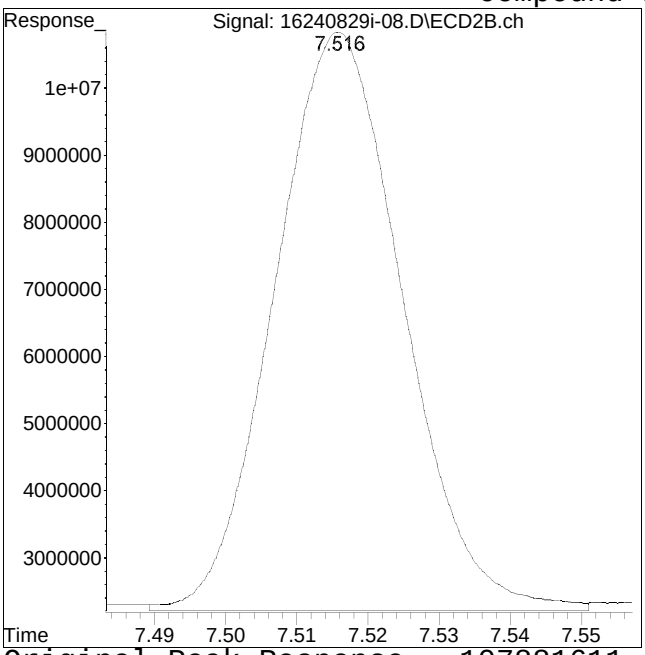
Manual Peak Response = 533561085 M4

M4 = Poor automated baseline construction.

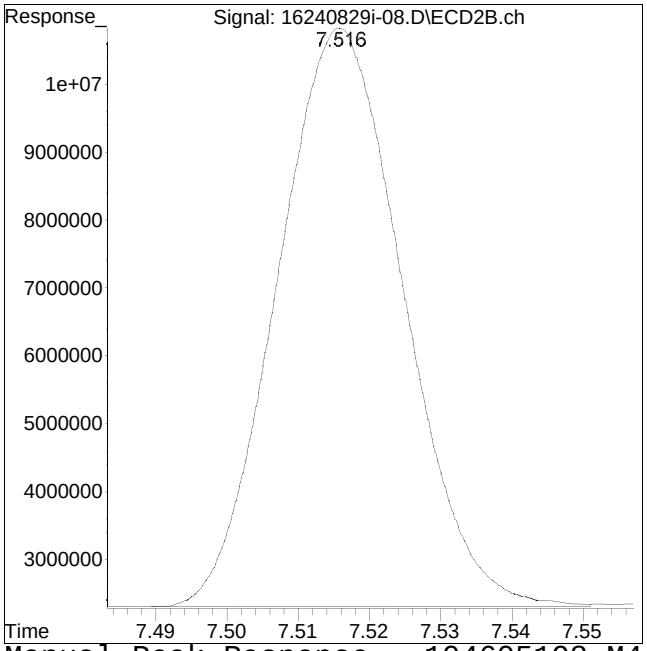
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #18: MCPP #2



Original Peak Response = 107881611

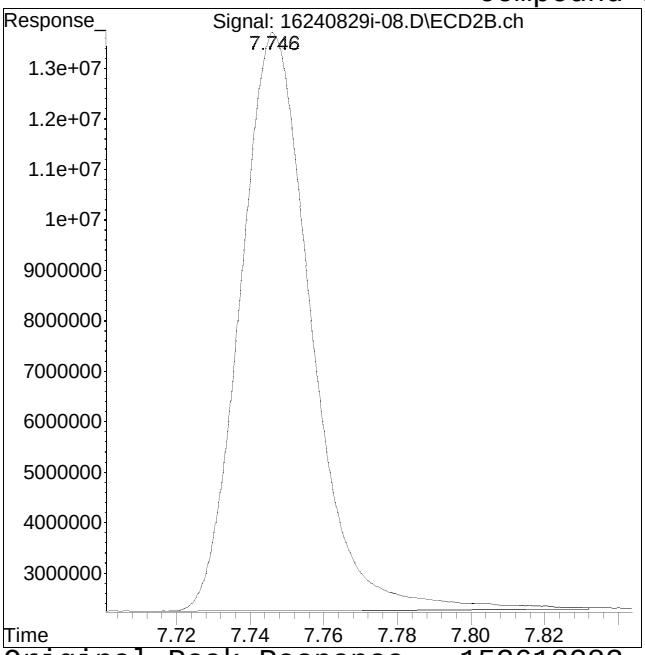


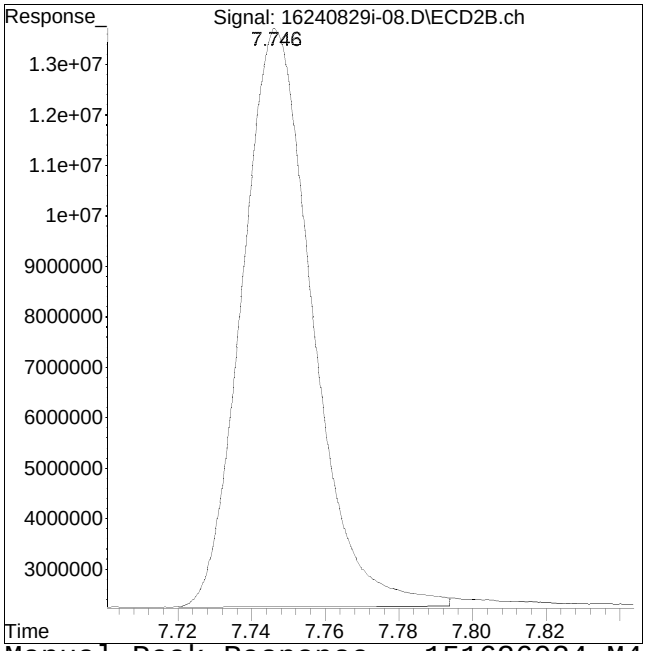
Manual Peak Response = 104605198 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #19: MCPA #2



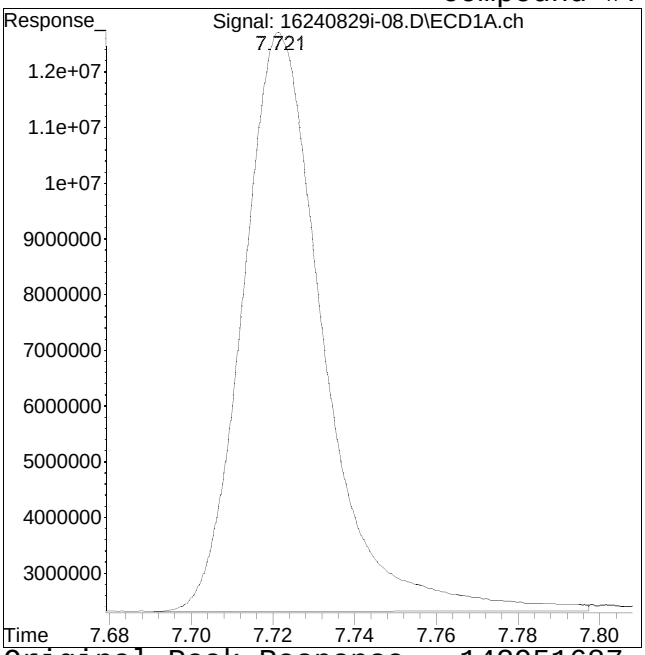


Original Peak Response = 153612283 Manual Peak Response = 151626024 M4
M4 = Poor automated baseline construction.

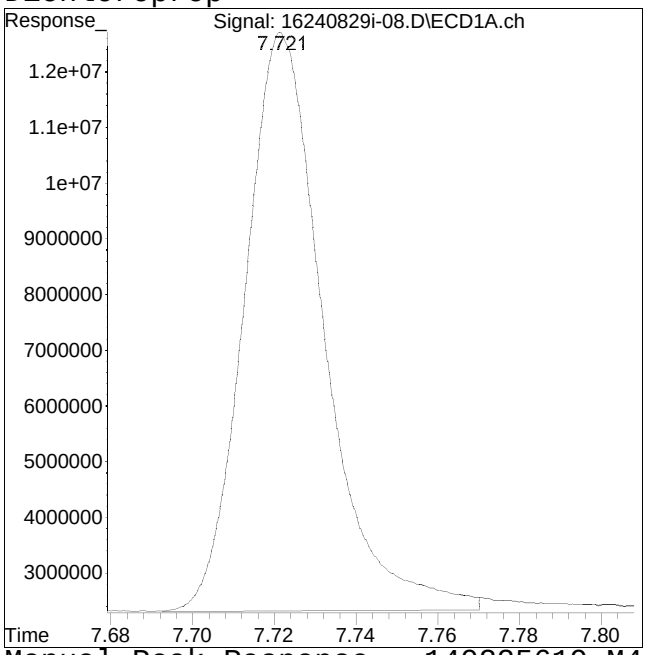
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #7: Dichloroprop



Original Peak Response = 142951687



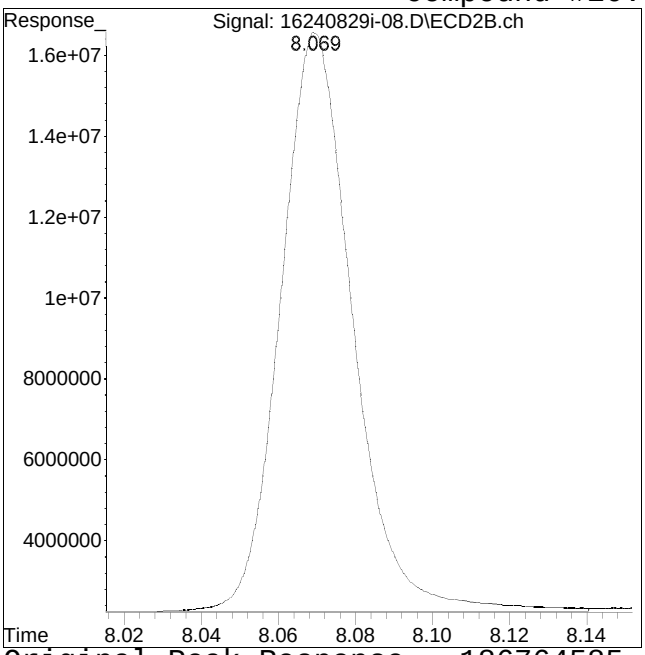
Manual Peak Response = 140225619 M4

M4 = Poor automated baseline construction.

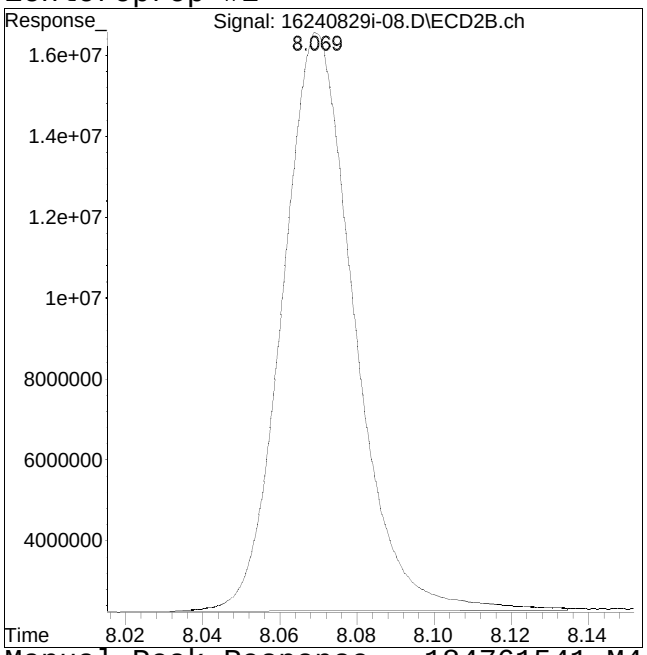
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #20: Dichloroprop #2



Original Peak Response = 186764585



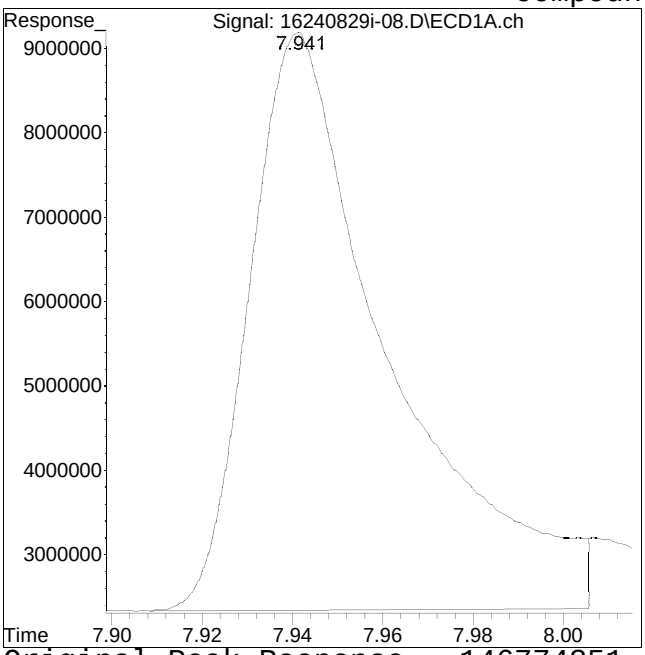
Manual Peak Response = 184761541 M4

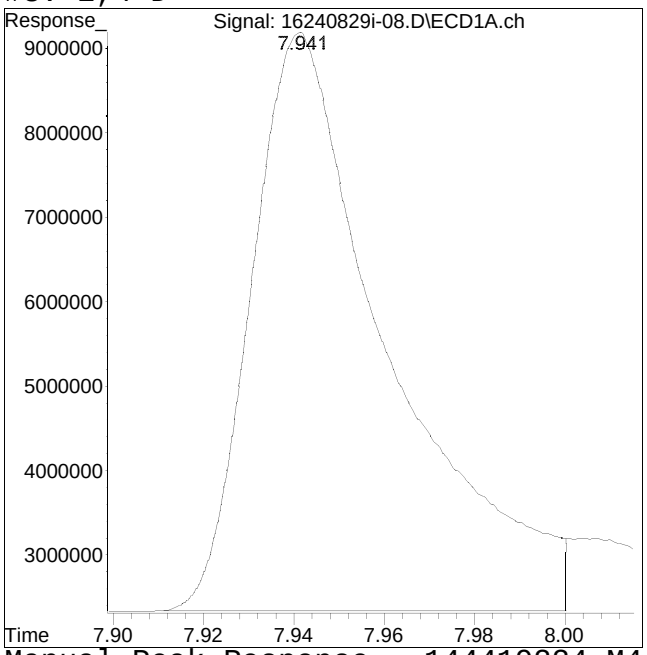
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #8: 2,4-D



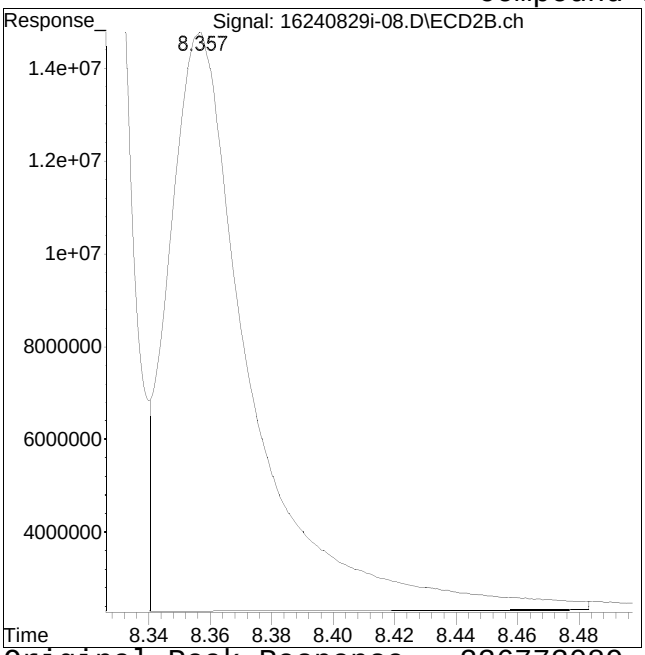


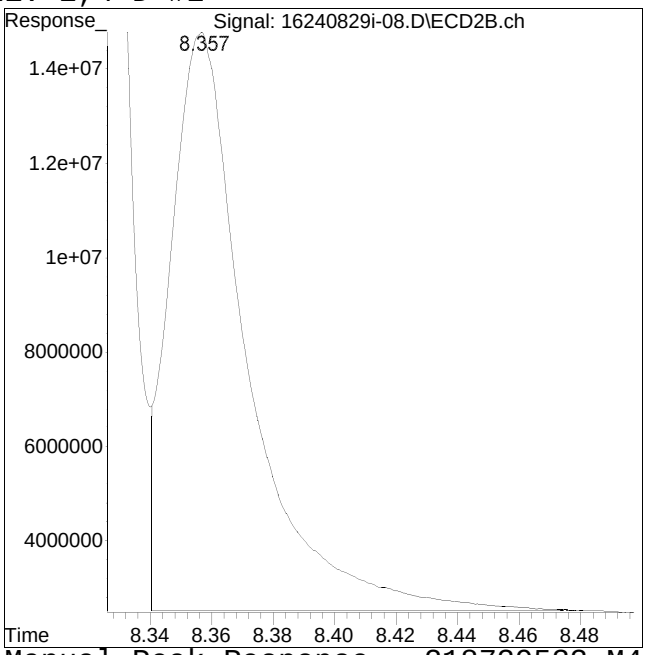
Original Peak Response = 146774351 Manual Peak Response = 144419224 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #21: 2,4-D #2



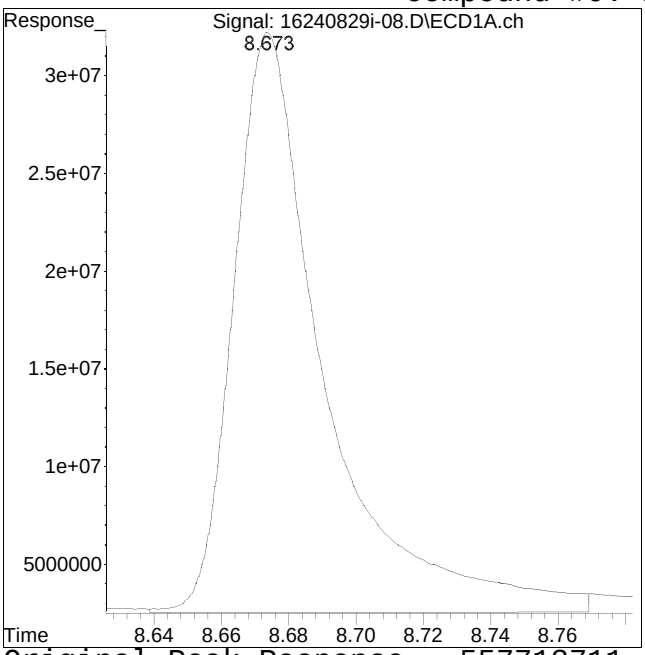


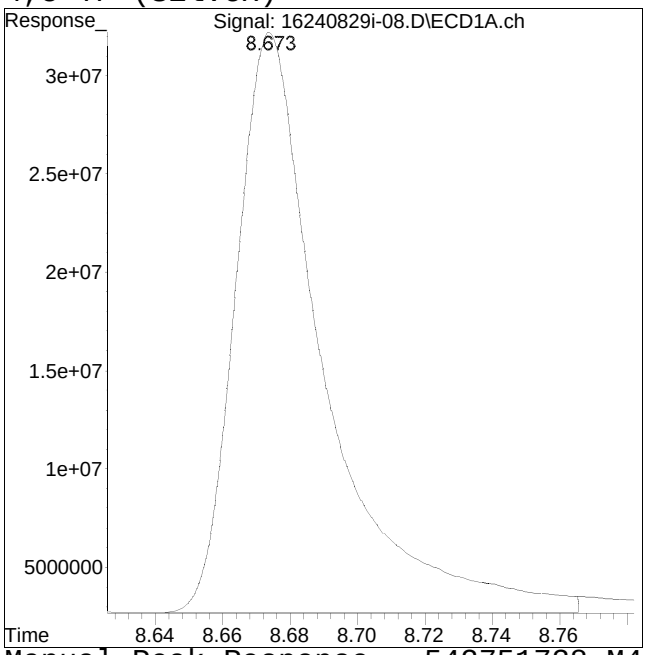
Original Peak Response = 236773089 Manual Peak Response = 218739533 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #9: 2,4,5-TP (Silvex)



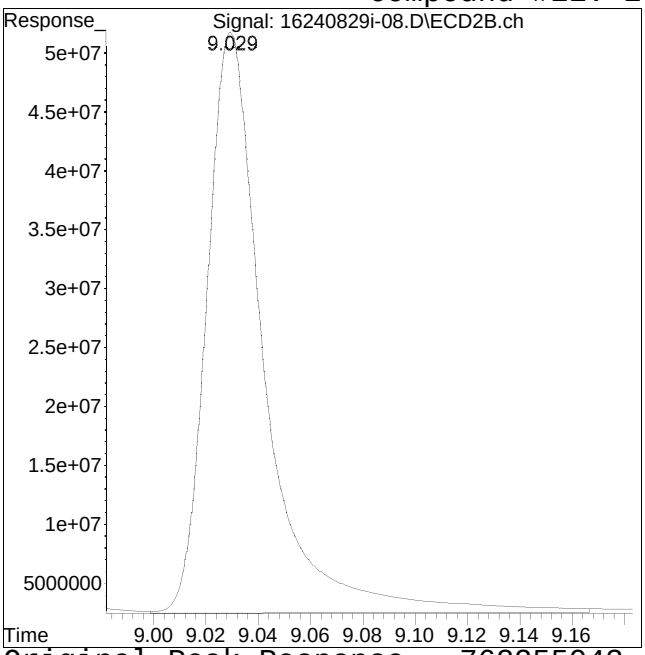


Original Peak Response = 557713711 Manual Peak Response = 542751738 M4
M4 = Poor automated baseline construction.

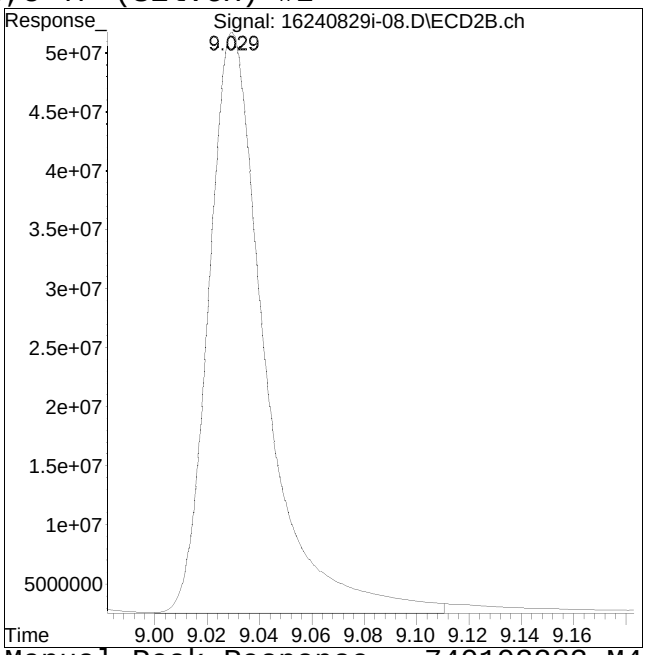
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #22: 2,4,5-TP (Silvex) #2



Original Peak Response = 762255943



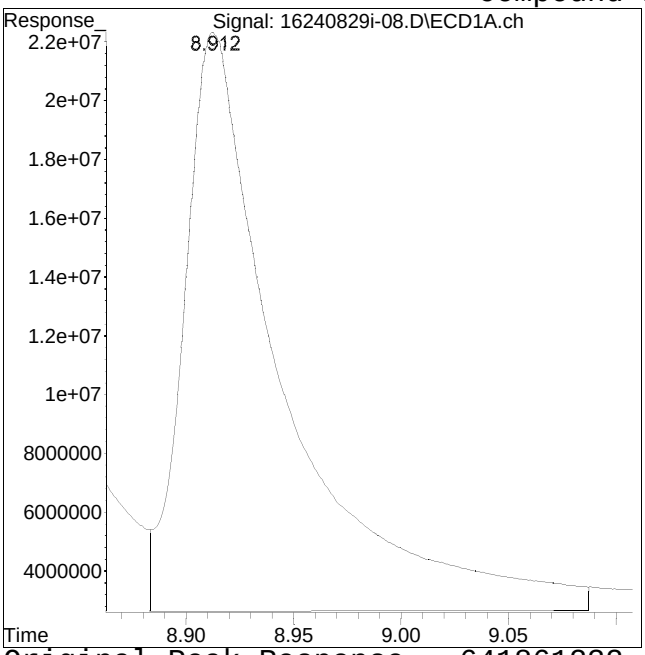
Manual Peak Response = 740102283 M4

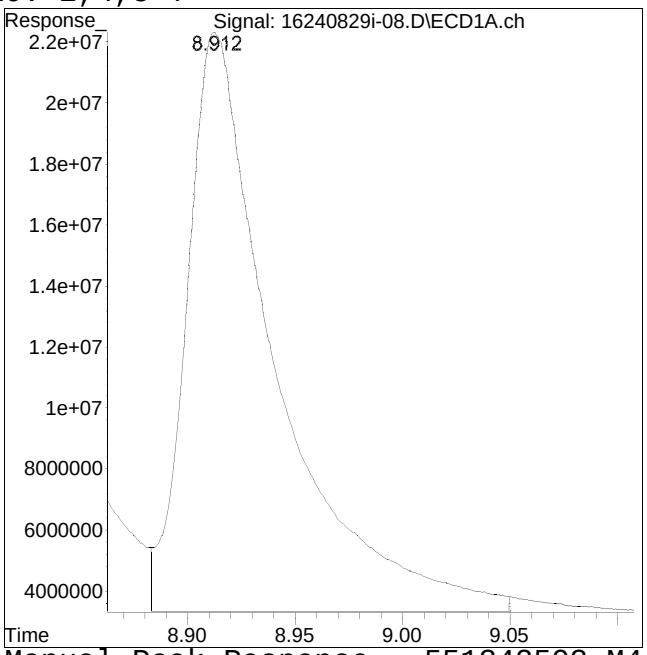
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #10: 2,4,5-T



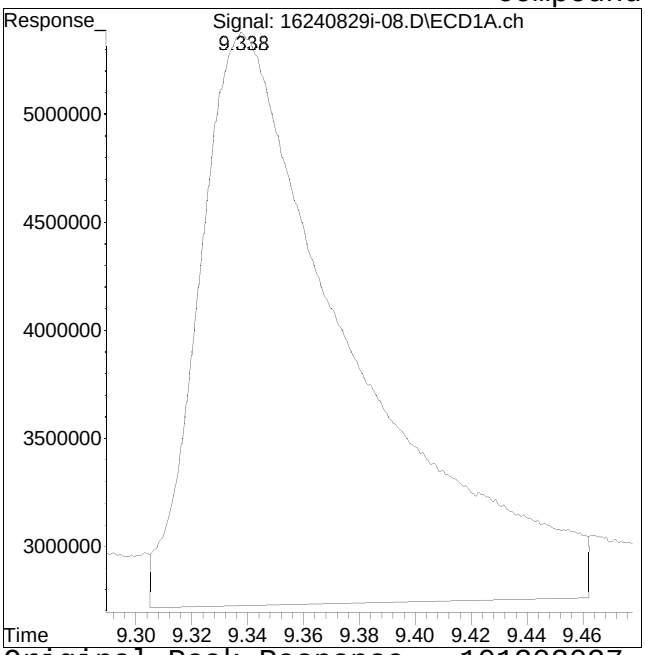


Original Peak Response = 641861232 Manual Peak Response = 551342593 M4
M4 = Poor automated baseline construction.

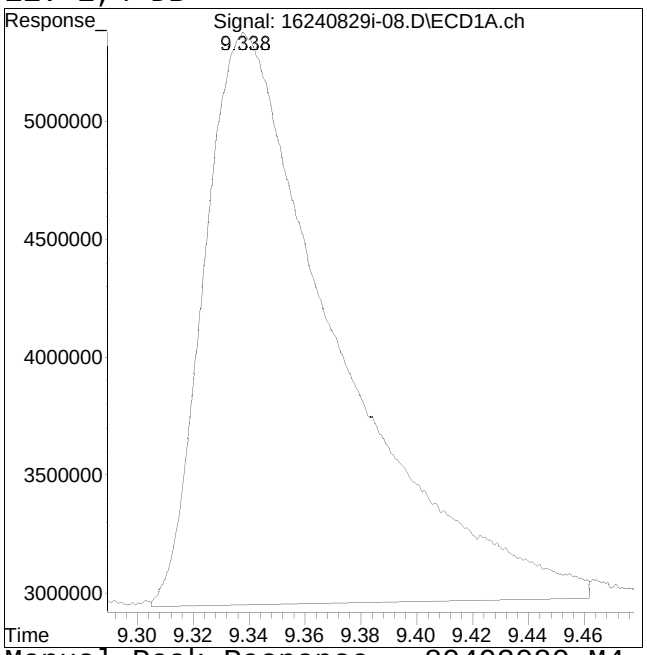
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #11: 2,4-DB



Original Peak Response = 101302037



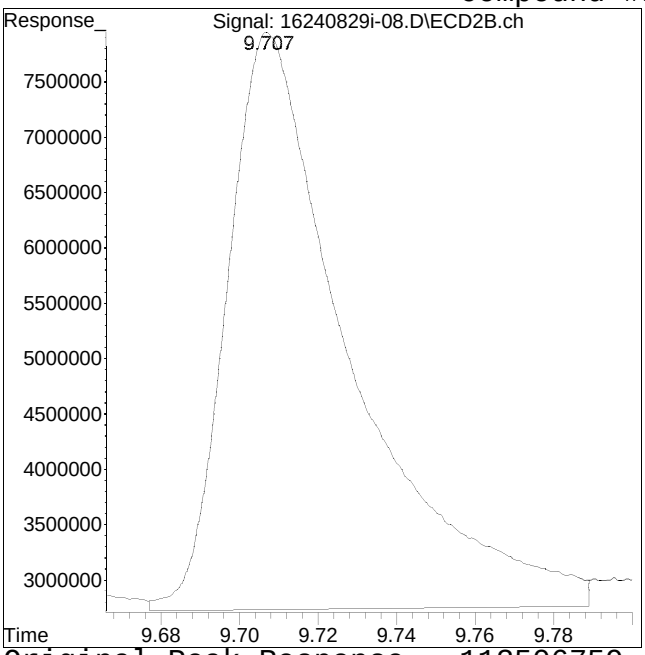
Manual Peak Response = 80493080 M4

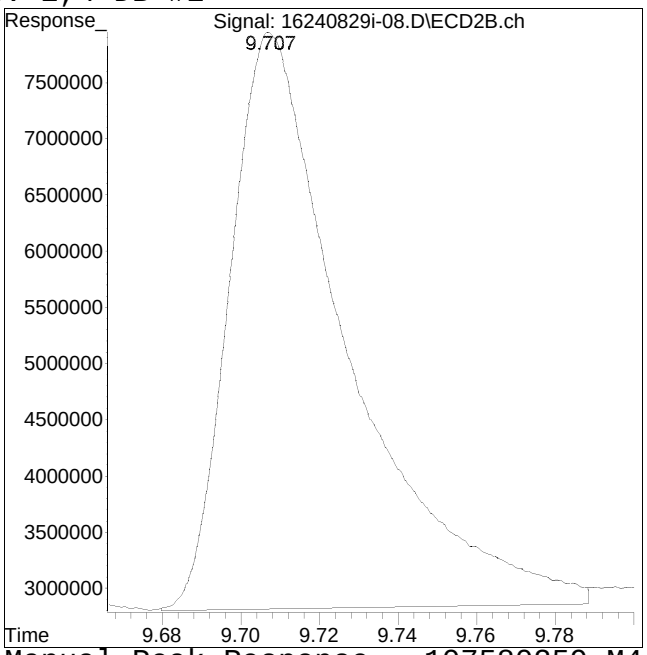
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #24: 2,4-DB #2



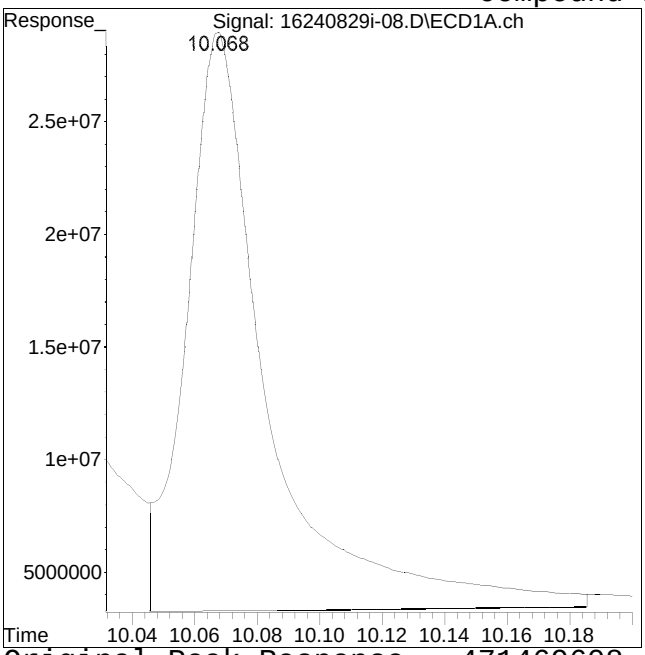


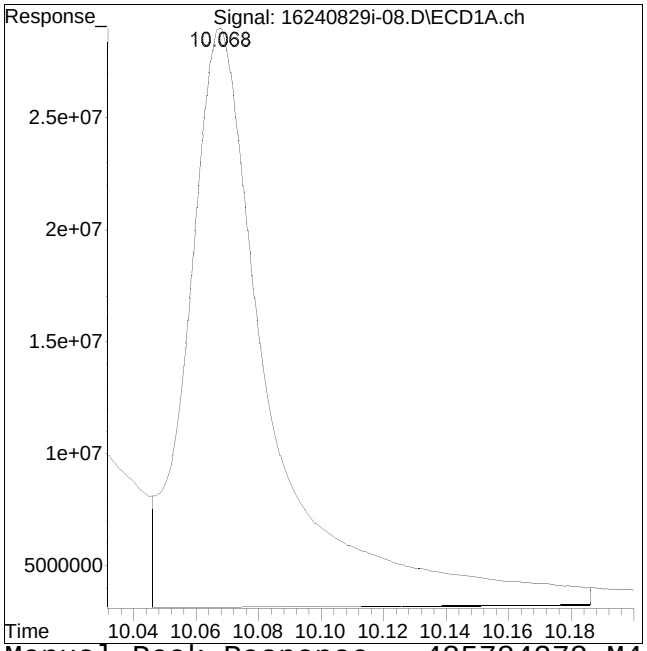
Original Peak Response = 113506759 Manual Peak Response = 107580259 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240829IQMethod : Herb16_2024_08_29_ICAL.m
Data File : 16240829i-08.D Operator : pest16:akm
Date Inj'd : 8/29/2024 2:45 pm Instrument : PEST16
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/4/2024 10:59 am

Compound #12: Dinoseb





Original Peak Response = 471469608 Manual Peak Response = 485784278 M4
M4 = Poor automated baseline construction.

Evaluate Relative Error Report PEST16

Method Path : I:\PCB\Pest16\2024\240829ICAL\
Method File : Herb16_2024_08_29_ICAL.m
Title : herb
Last Update : Wed Sep 04 10:59:35 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
18	T MCPP #2	L	mg/l	18.8	20.270	7.8	9.40	8.137	-13.4
19	T MCPA #2	L	mg/l	18.6	20.118	8.2	9.30	8.036	-13.6

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
18	T MCPP #2	Linear	0.997275	0.000000	0.000733827	0.0229159
19	T MCPA #2	Linear	0.997291	0.000000	0.001041	0.0367334

Response Factor Report Pest22

Method Path : I:\PEST\Pest22\2024\240920ical\
Method File : Herb22_2024_09_20_mgL_ICAL.m
Title : herb
Last Update : Mon Sep 23 11:28:20 2024
Response Via : Initial Calibration

Calibration Files
1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D
6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon		0.268	0.253	0.244	0.207	0.196	0.234	13.27
3)	s	DCAA (surrogate)	0.213	0.207	0.200	0.180	0.159	0.146	0.184	14.76
4)	t	Dicamba	0.663	0.640	0.602	0.542	0.487	0.471	0.568	14.09
5)	t	MCPP	0.000	0.000	0.001	0.001	0.001	0.001	0.000	10.39
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	10.36
7)	t	Dichloroprop	0.218	0.201	0.190	0.162	0.144	0.134	0.175	19.07
8)	t	2,4-D	0.260	0.236	0.223	0.201	0.182	0.174	0.213	15.60
9)	t	2,4,5-TP (Sil...	0.882	0.856	0.832	0.739	0.680	0.645	0.772	12.73
10)	t	2,4,5-T	0.939	0.859	0.837	0.747	0.695	0.676	0.792	12.99
11)	t	2,4-DB	0.141	0.121	0.123	0.110	0.103	0.098	0.116	13.37
12)	t	Dinoseb	0.754	0.680	0.636	0.533	0.481	0.459	0.590	19.96

Signal #2 Calibration Files
1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D
6 =22240920i-07.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	4,4'-DBOB	----------ISTD----------							
2)	t	Dalapon		0.225	0.227	0.203	0.179	0.176	0.202	12.00
3)	s	DCAA (surrogate)	0.235	0.227	0.198	0.174	0.155	0.148	0.189	19.30
4)	t	Dicamba	0.638	0.604	0.557	0.497	0.457	0.447	0.534	14.78
5)	t	MCPP	0.000	0.001	0.001	0.001	0.001	0.001	0.001	8.78
6)	t	MCPA	0.001	0.001	0.001	0.001	0.001	0.001	0.001	12.33
7)	t	Dichloroprop	0.214	0.201	0.182	0.160	0.142	0.136	0.173	18.35
8)	t	2,4-D	0.270	0.252	0.231	0.204	0.189	0.185	0.222	15.74
9)	t	2,4,5-TP (Sil...	0.905	0.874	0.820	0.723	0.673	0.659	0.776	13.57
10)	t	2,4,5-T	0.863	0.859	0.799	0.713	0.687	0.685	0.768	10.90
11)	t	2,4-DB	0.143	0.139	0.131	0.117	0.113	0.111	0.126	11.01

Method Path : I:\PEST\Pest22\2024\240920ical\
Method File : Herb22_2024_09_20_mgL_ICAL.m
Title : herb
Last Update : Mon Sep 23 11:28:20 2024
Response Via : Initial Calibration

Calibration Files
1 =22240920i-02.D 2 =22240920i-03.D 3 =22240920i-04.D 4 =22240920i-05.D 5 =22240920i-06.D
6 =22240920i-07.D

	Compound	1	2	3	4	5	6	Avg	%RSD
12) t	Dinoseb	0.557	0.554	0.517	0.455	0.429	0.425	0.490	12.42

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 11:42 am
Operator : pest22:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:33:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:33:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1208.6E6	1536.3E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.906	7.365	48342330	67860898	0.054M4	0.058M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	10.80%#	11.60%#
		Target Compounds						
2)	t	Dalapon	2.327	2.321	64110826	69961534	0.055M4	0.051M4
4)	t	Dicamba	7.079	7.542	150.7E6	184.3E6	0.055M4	0.056M4
5)	t	MCPP	7.276	7.655	8760966	12721796	3.748M4	3.942M4
6)	t	MCPA	7.424	7.882	20732761	31539153	4.929M4	5.385M4
7)	t	Dichloroprop	7.786	8.201	49557404	61863211	0.059M4	0.058M4
8)	t	2,4-D	8.021f	8.479	59112709	78070519	0.057M4	0.057M4
9)	t	2,4,5-TP (Si	8.719	9.137	202.5E6	264.1E6	0.054M4	0.055M4
10)	t	2,4,5-T	8.953f	9.428	215.5E6	252.0E6	0.057M4	0.053M4
11)	t	2,4-DB	9.364f	9.791	32612397	42276332	0.058M4	0.055M4
12)	t	Dinoseb	10.088	10.011	173.2E6	162.6E6	0.064M4	0.054M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 11:42 am
Operator : pest22:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:33:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:33:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

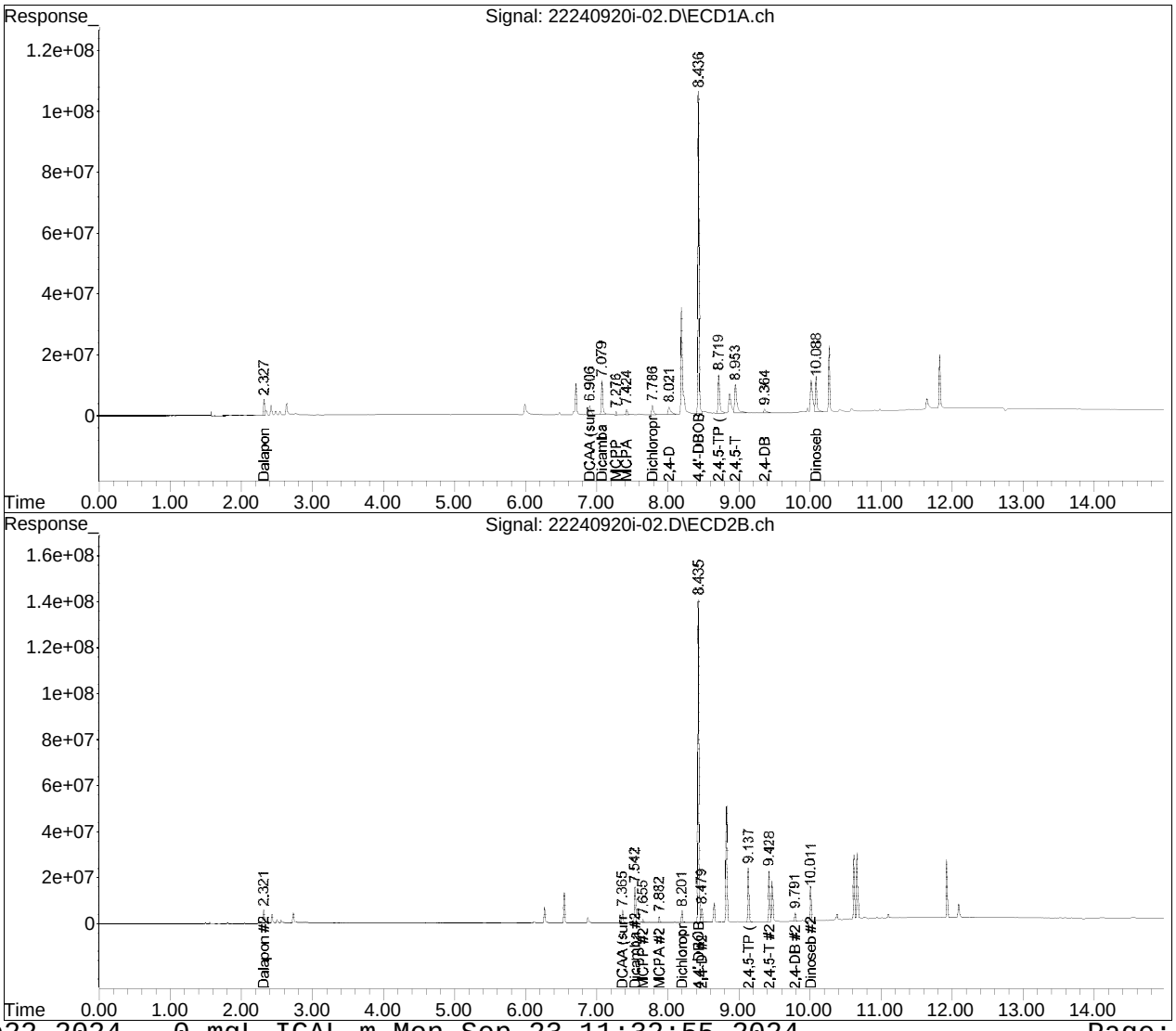
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 11:42 am
Operator : pest22:akm
Sample : il1herb,42e,,pp 11633 L0.005/5
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:33:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:33:19 2024
Response via : Initial Calibration
Integrator: ChemStation

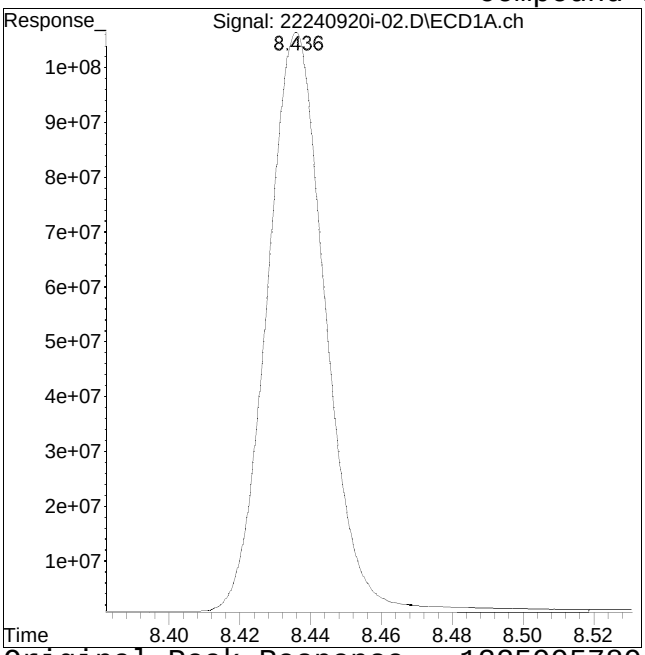
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

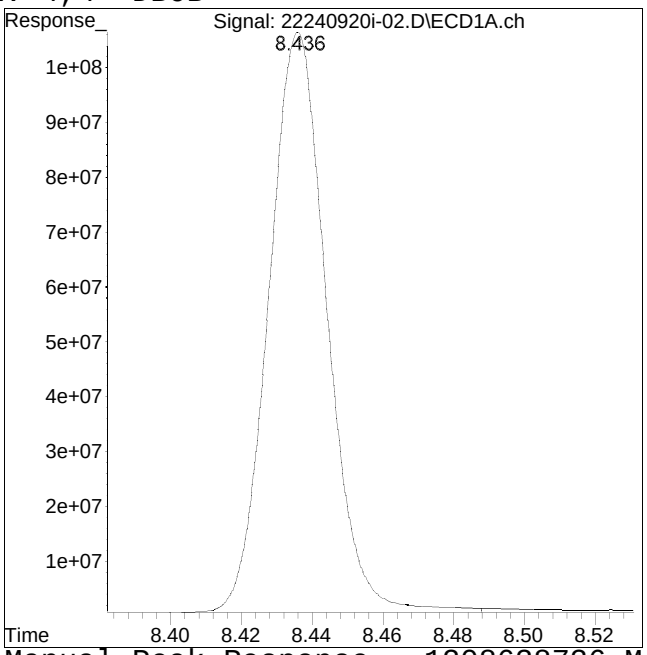


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #1: 4,4'-DBOB



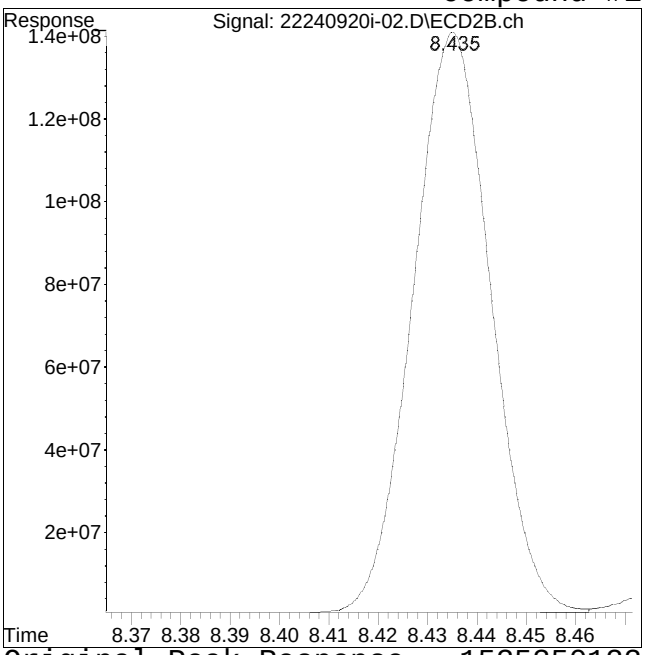


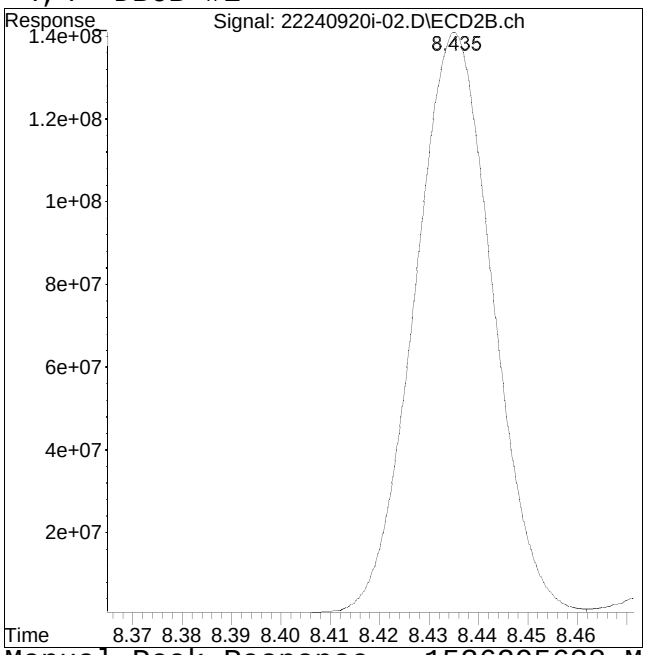
Original Peak Response = 1225995789 Manual Peak Response = 1208638736 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #14: 4,4'-DBOB #2



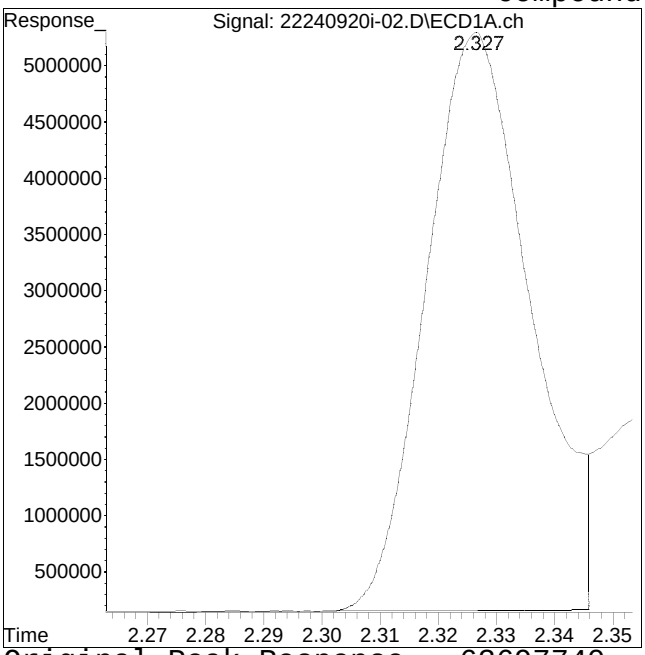


Original Peak Response = 1535350123 Manual Peak Response = 1536295638 M4
M4 = Poor automated baseline construction.

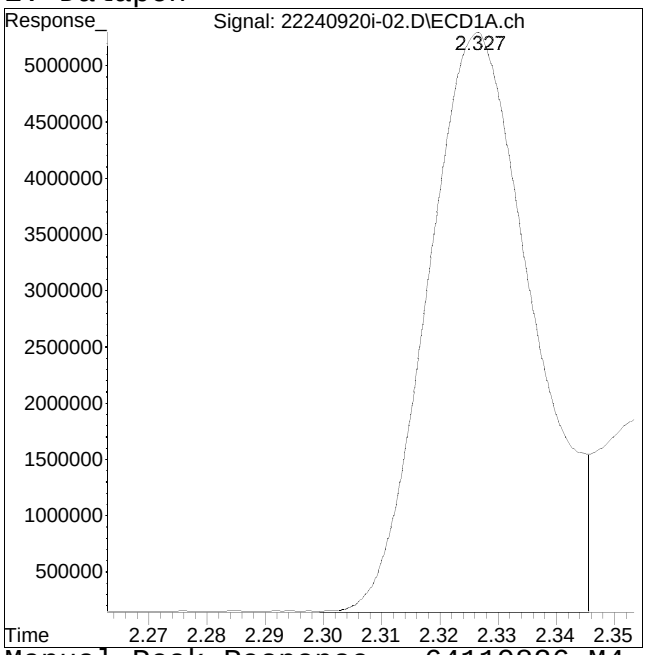
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #2: Dalapon



Original Peak Response = 63697740



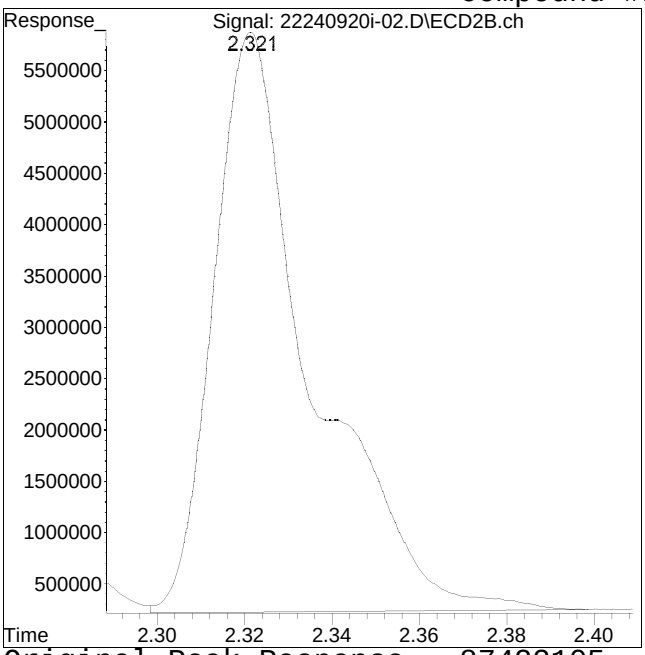
Manual Peak Response = 64110826 M4

M4 = Poor automated baseline construction.

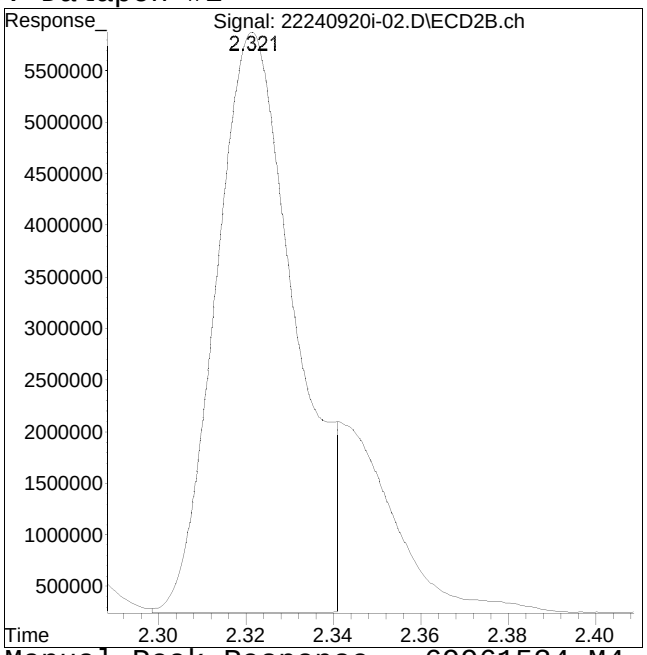
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #15: Dalapon #2



Original Peak Response = 87422105

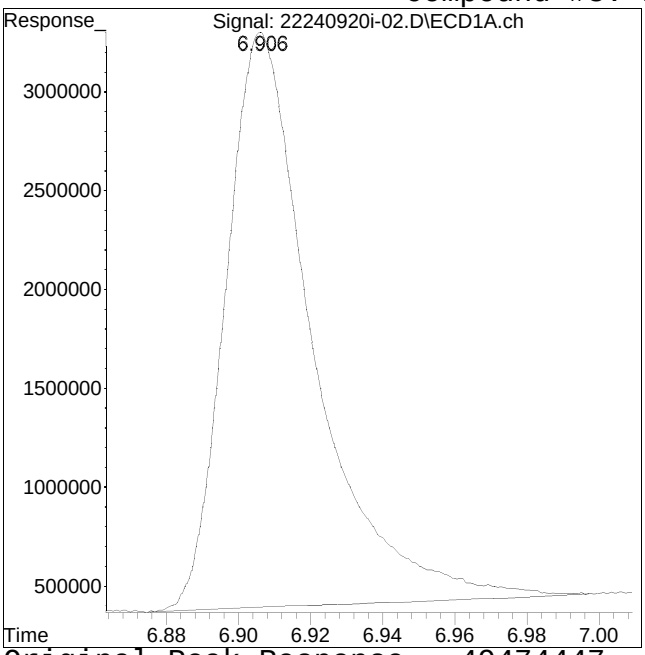


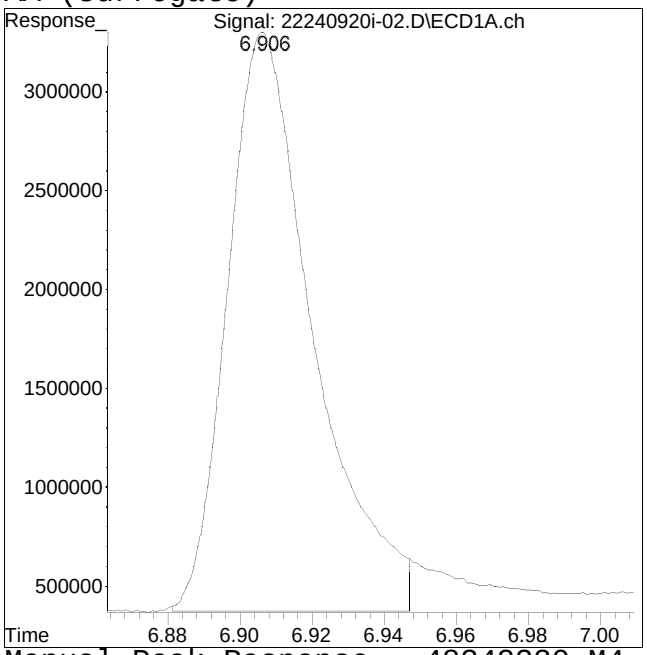
Manual Peak Response = 69961534 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #3: DCAA (surrogate)



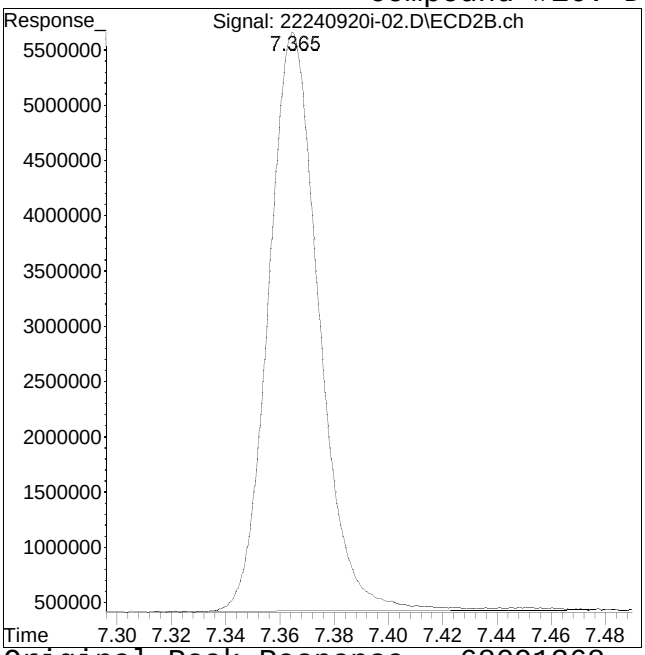


Original Peak Response = 49474447 Manual Peak Response = 48342330 M4
M4 = Poor automated baseline construction.

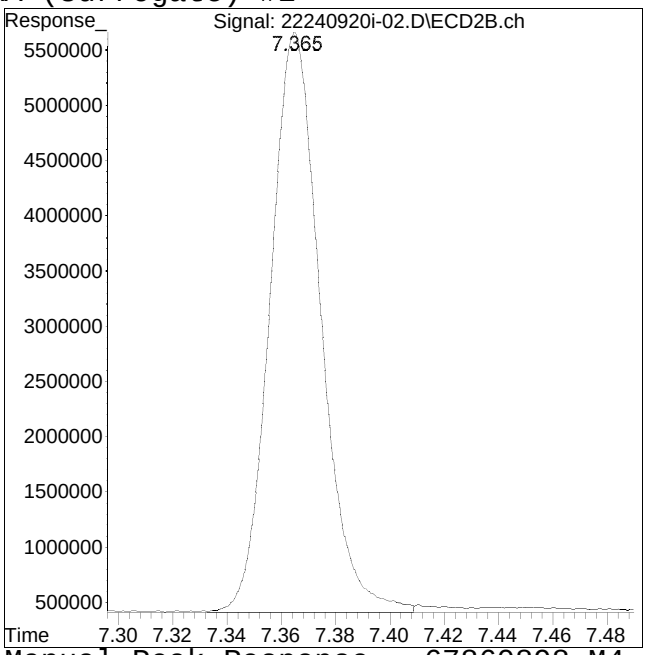
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 68091368



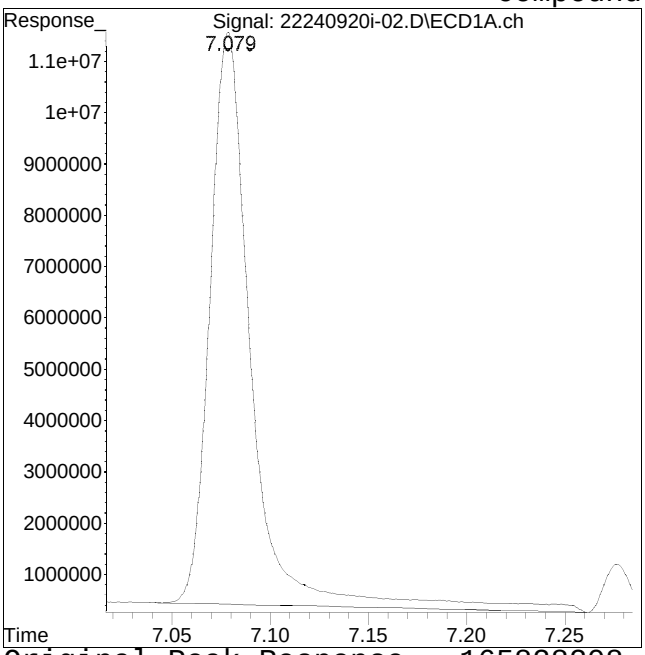
Manual Peak Response = 67860898 M4

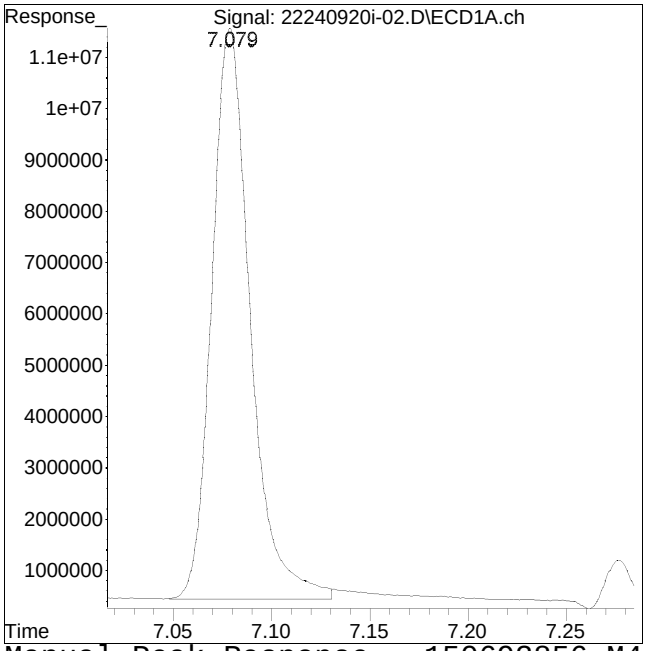
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #4: Dicamba



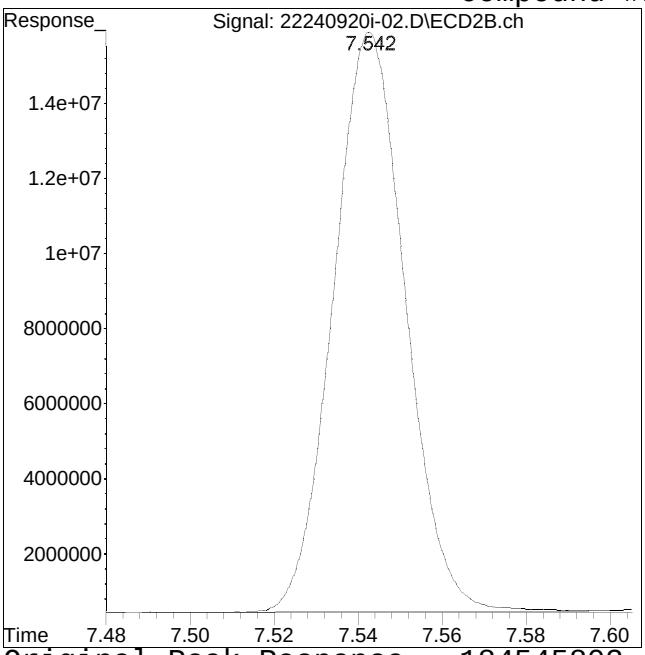


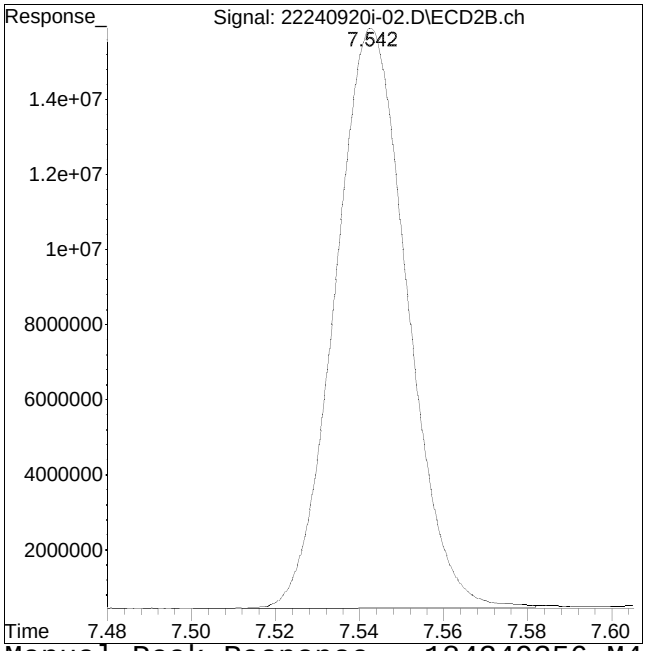
Original Peak Response = 165828208 Manual Peak Response = 150693856 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #17: Dicamba #2



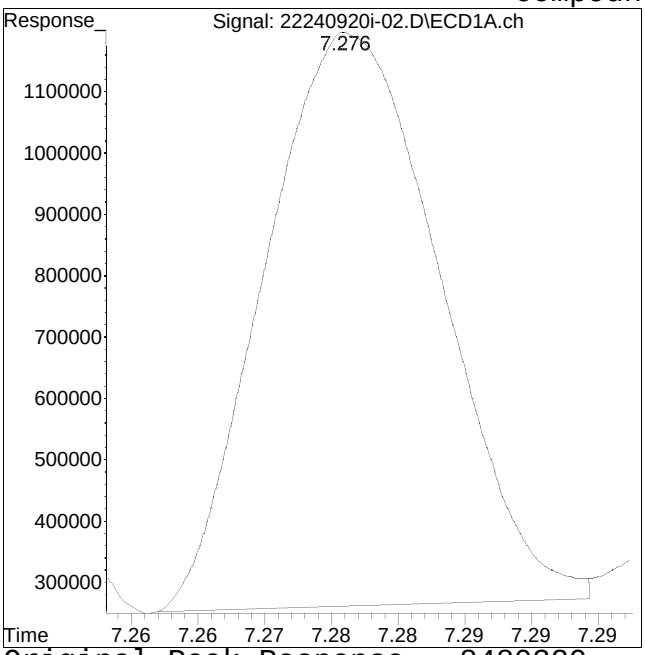


Original Peak Response = 184545803 Manual Peak Response = 184349356 M4
M4 = Poor automated baseline construction.

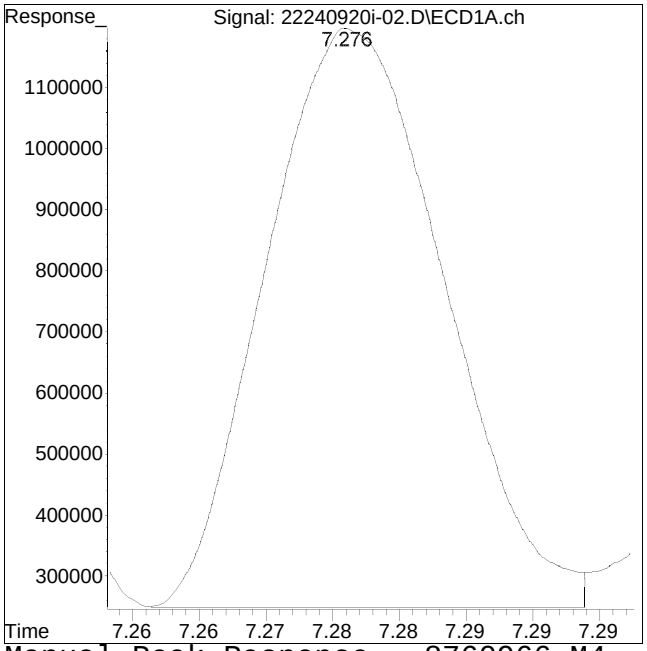
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #5: MCPP



Original Peak Response = 8480329



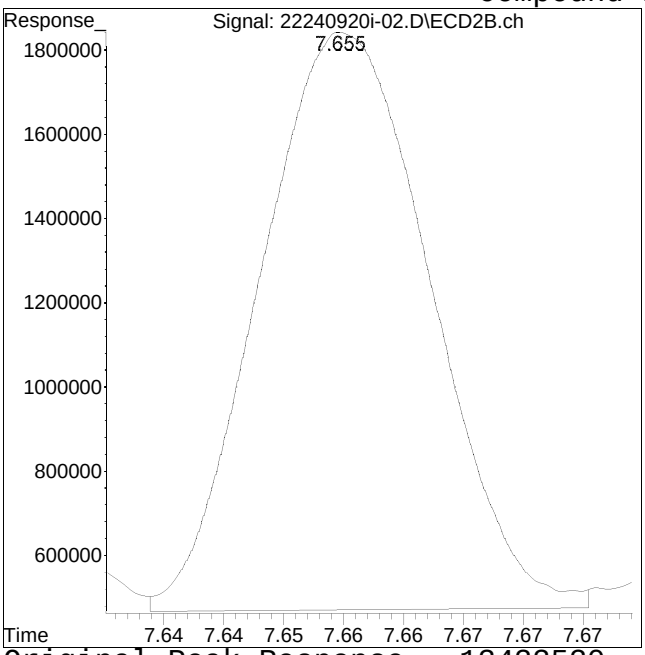
Manual Peak Response = 8760966 M4

M4 = Poor automated baseline construction.

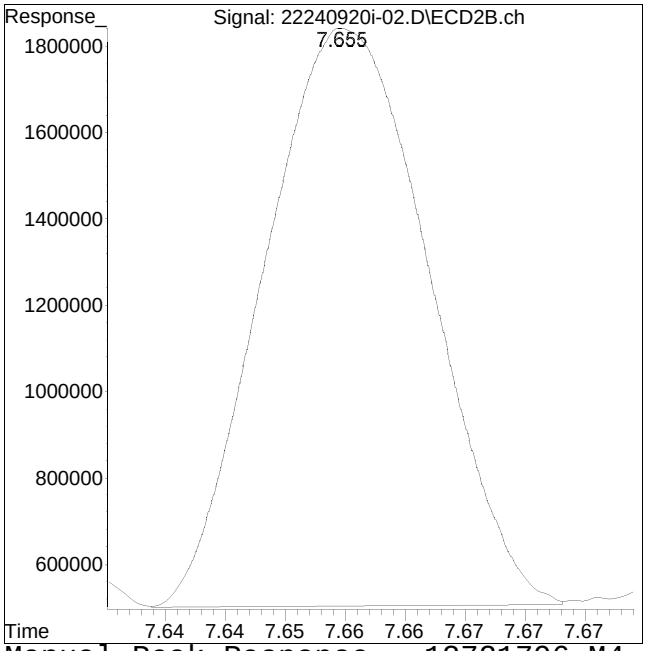
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #18: MCPP #2



Original Peak Response = 13433530



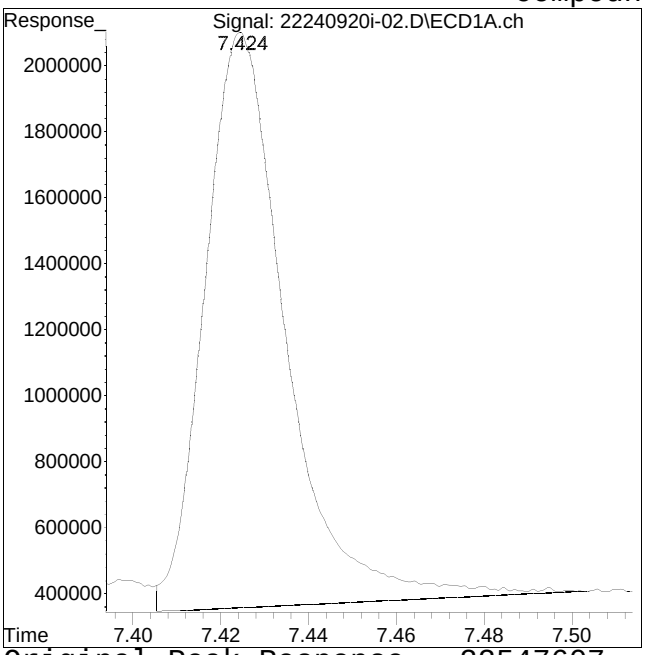
Manual Peak Response = 12721796 M4

M4 = Poor automated baseline construction.

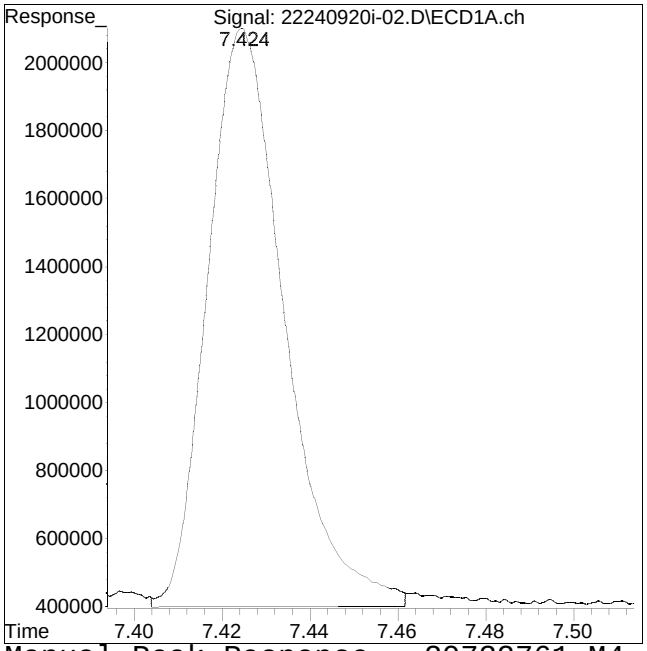
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #6: MCPA



Original Peak Response = 22547607



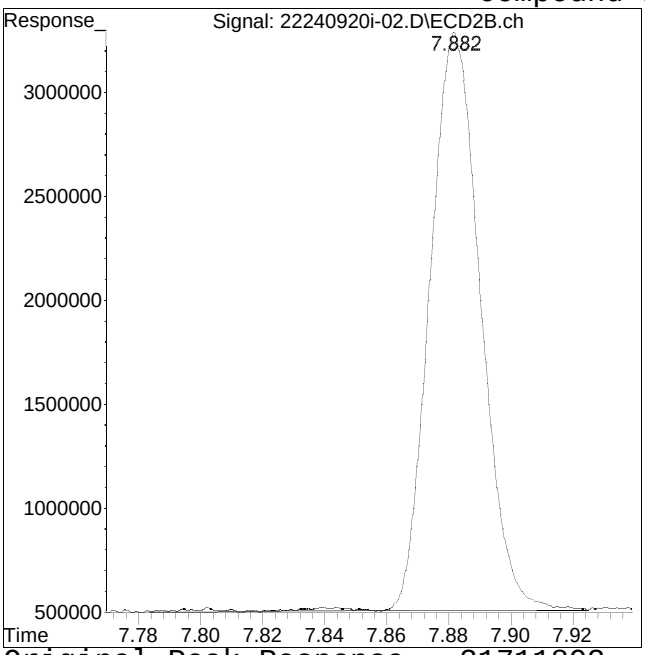
Manual Peak Response = 20732761 M4

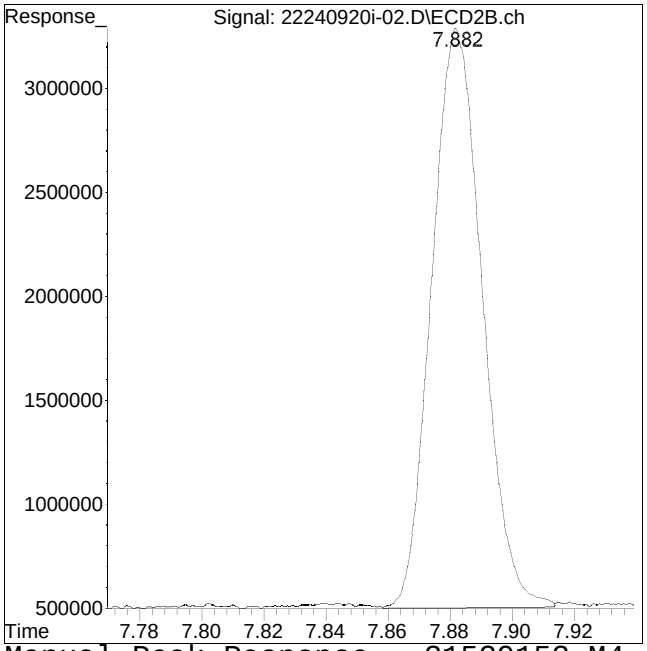
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #19: MCPA #2



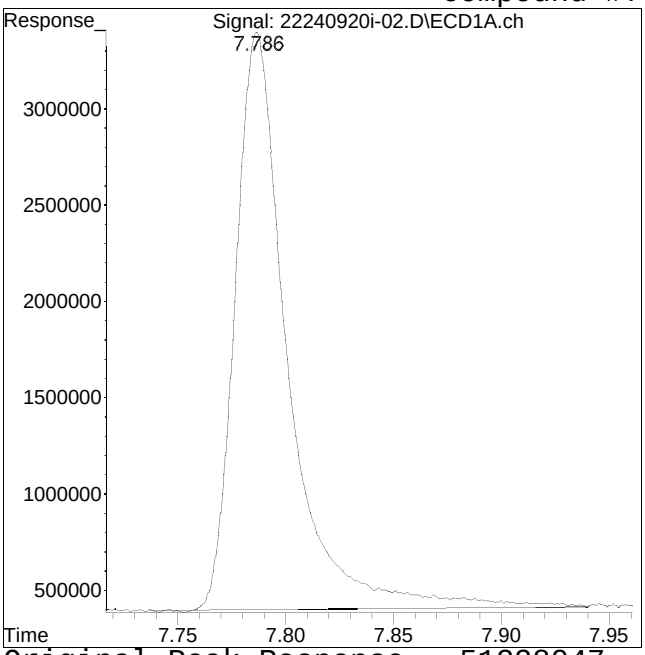


Original Peak Response = 31711893 Manual Peak Response = 31539153 M4
M4 = Poor automated baseline construction.

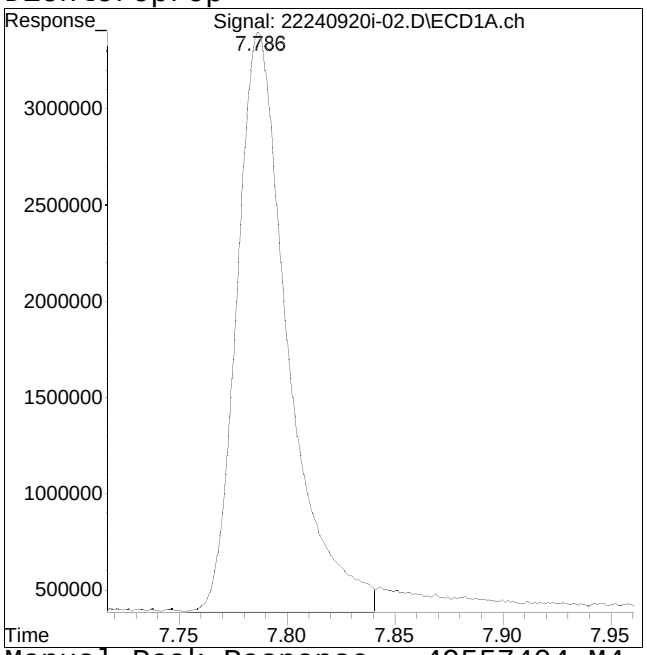
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #7: Dichloroprop



Original Peak Response = 51228047



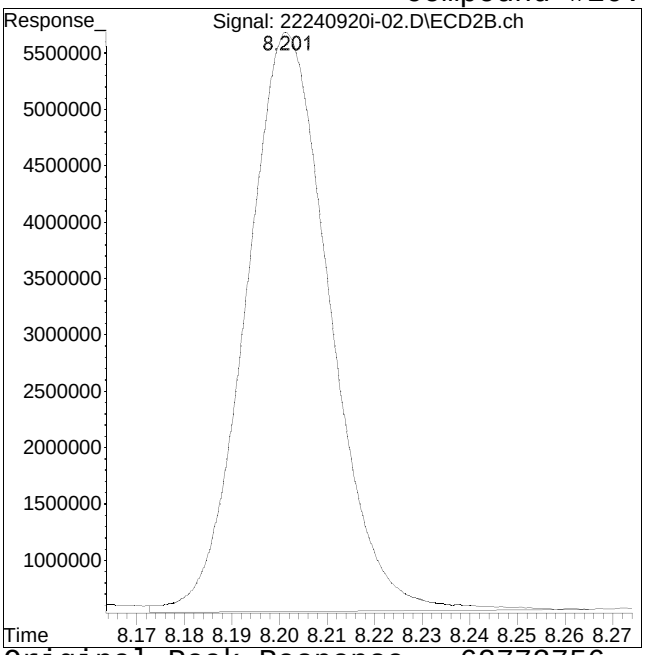
Manual Peak Response = 49557404 M4

M4 = Poor automated baseline construction.

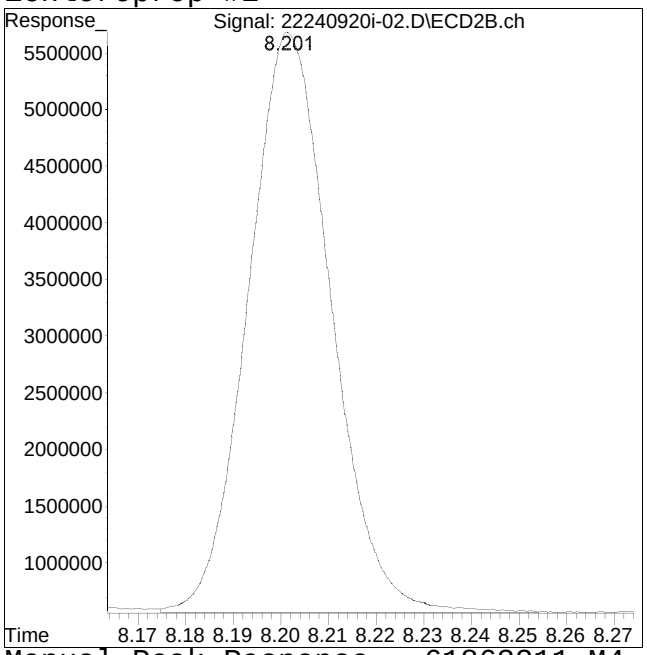
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #20: Dichloroprop #2



Original Peak Response = 62773756



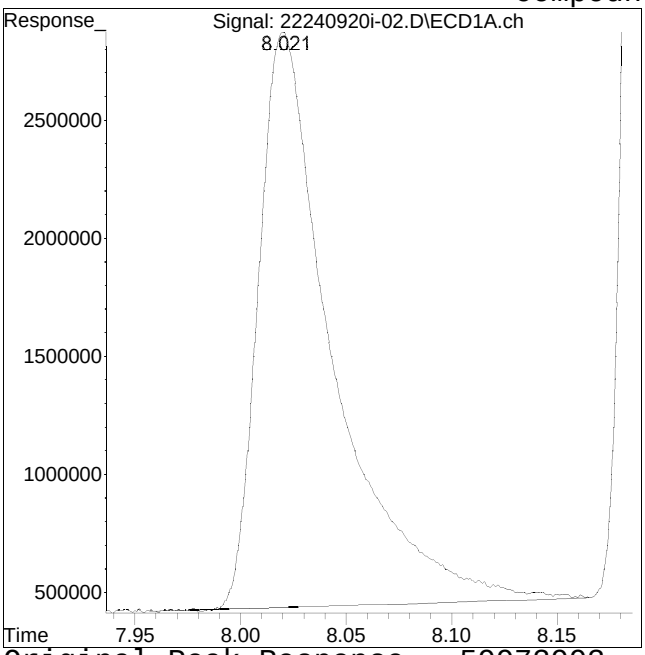
Manual Peak Response = 61863211 M4

M4 = Poor automated baseline construction.

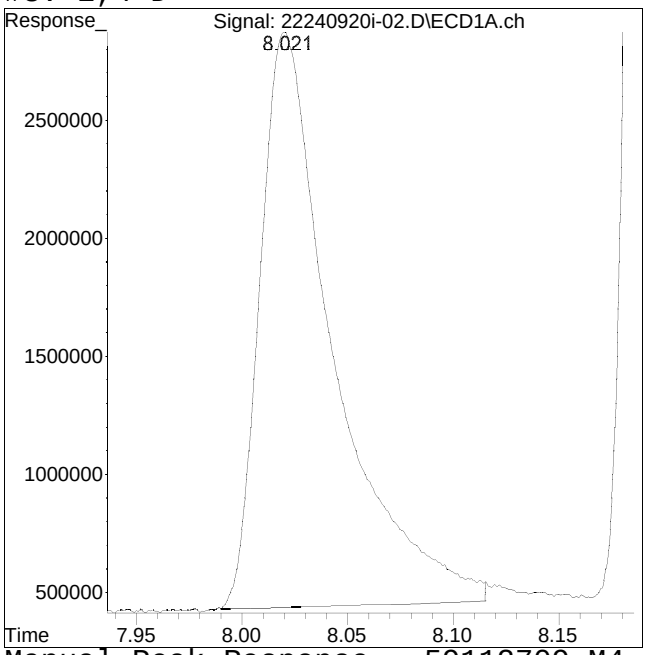
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #8: 2,4-D



Original Peak Response = 59973993



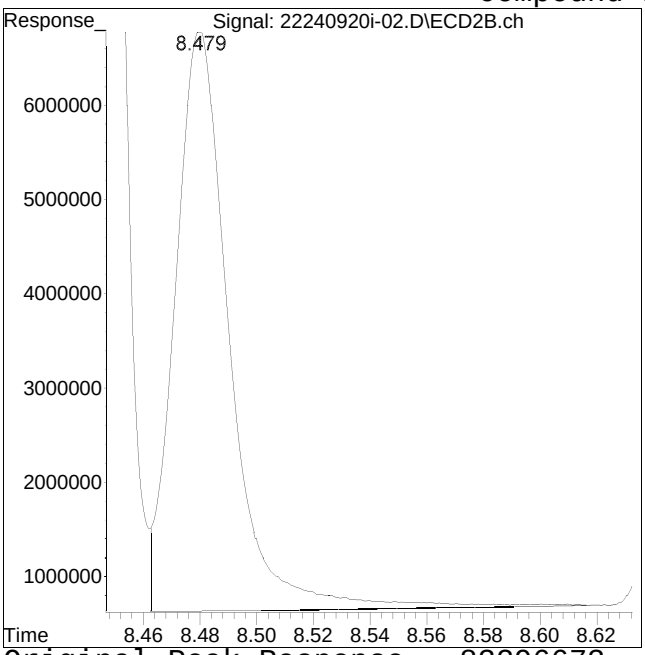
Manual Peak Response = 59112709 M4

M4 = Poor automated baseline construction.

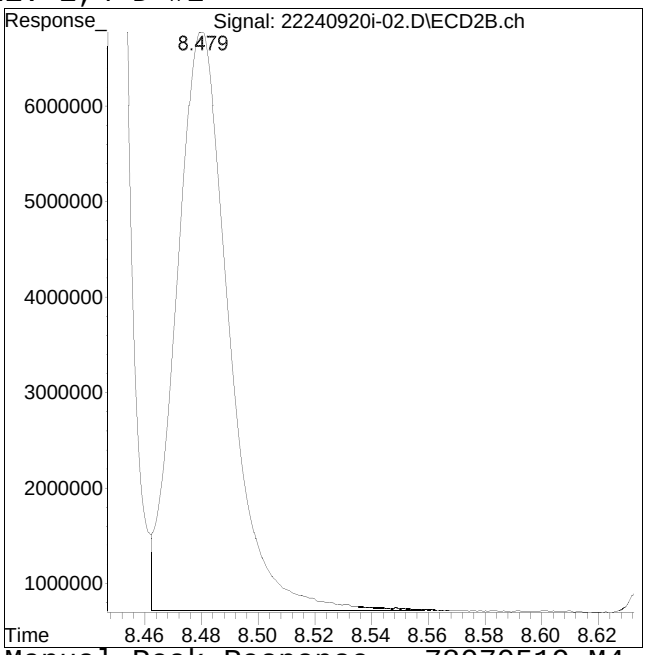
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #21: 2,4-D #2



Original Peak Response = 83296673



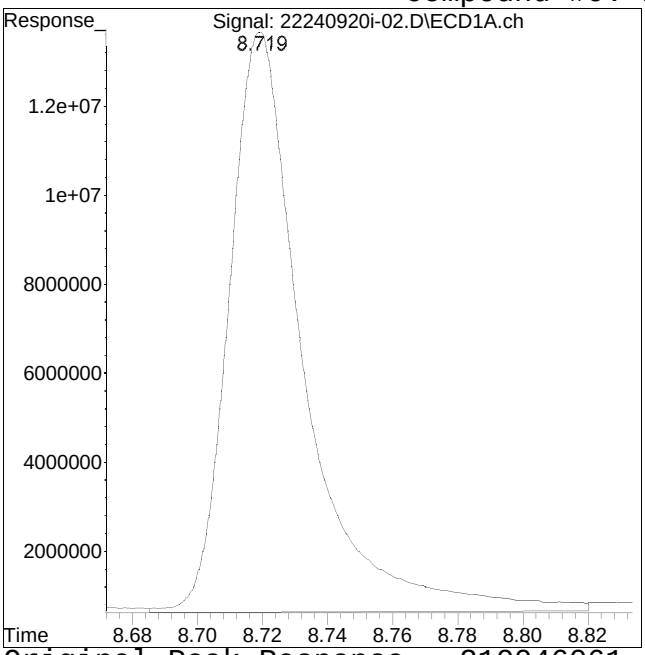
Manual Peak Response = 78070519 M4

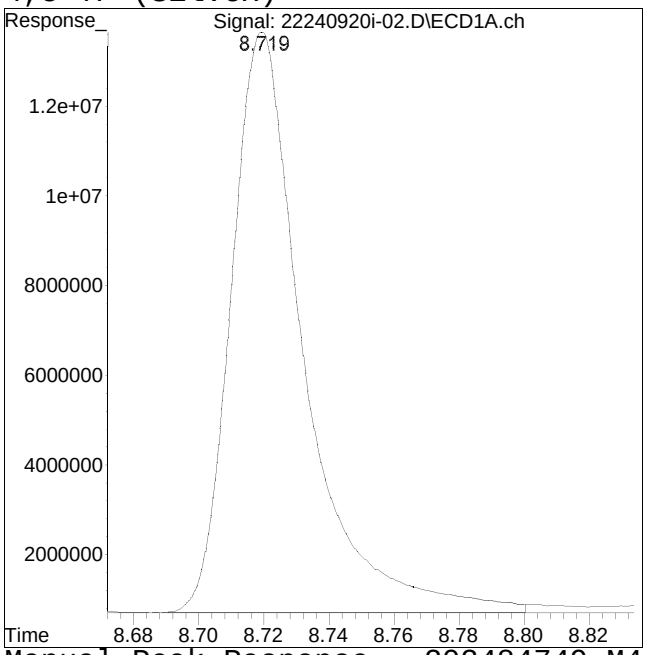
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #9: 2,4,5-TP (Silvex)



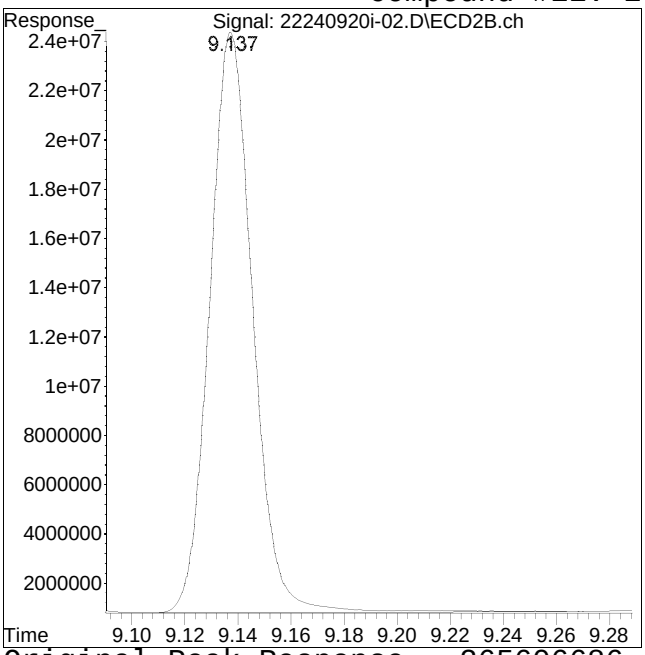


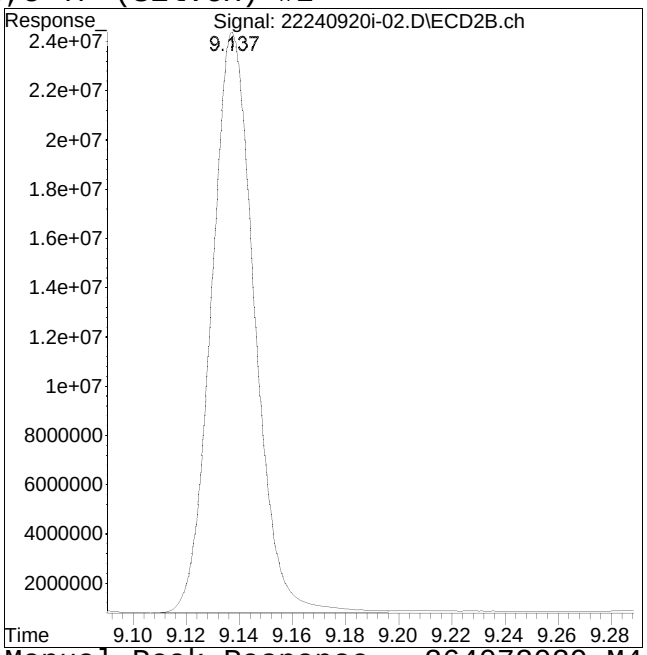
Original Peak Response = 210046061 Manual Peak Response = 202484749 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #22: 2,4,5-TP (Silvex) #2



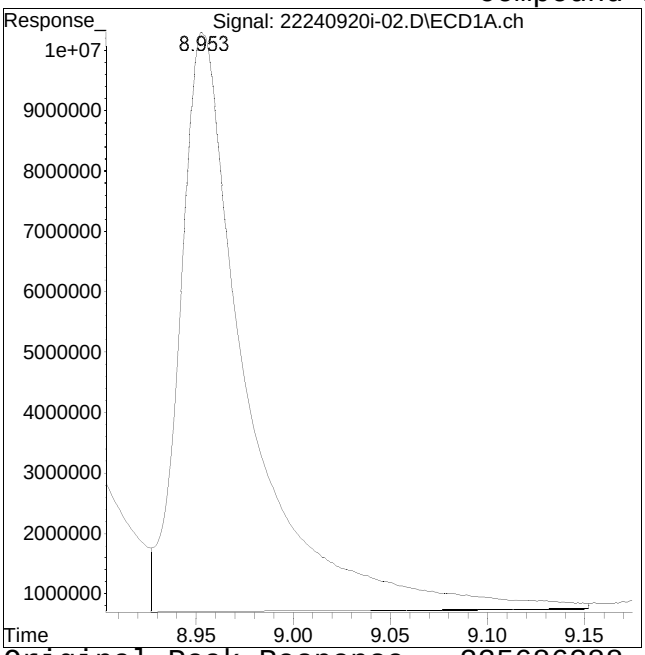


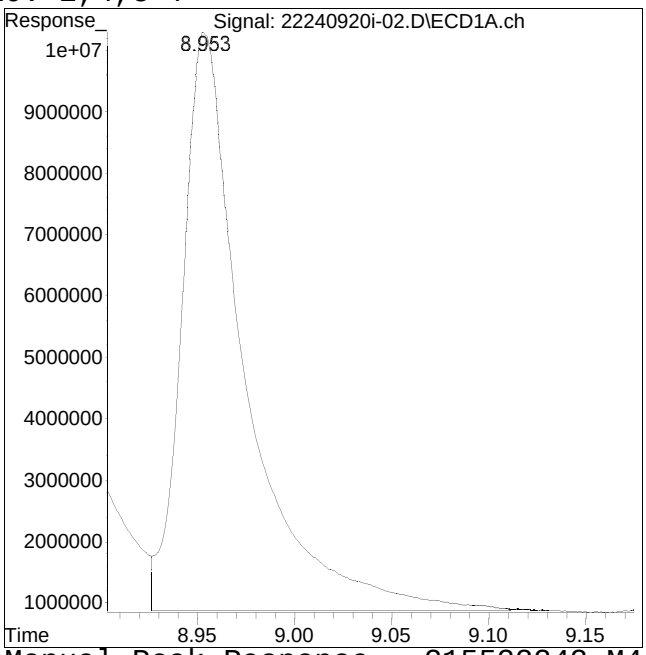
Original Peak Response = 265606686 Manual Peak Response = 264072029 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #10: 2,4,5-T



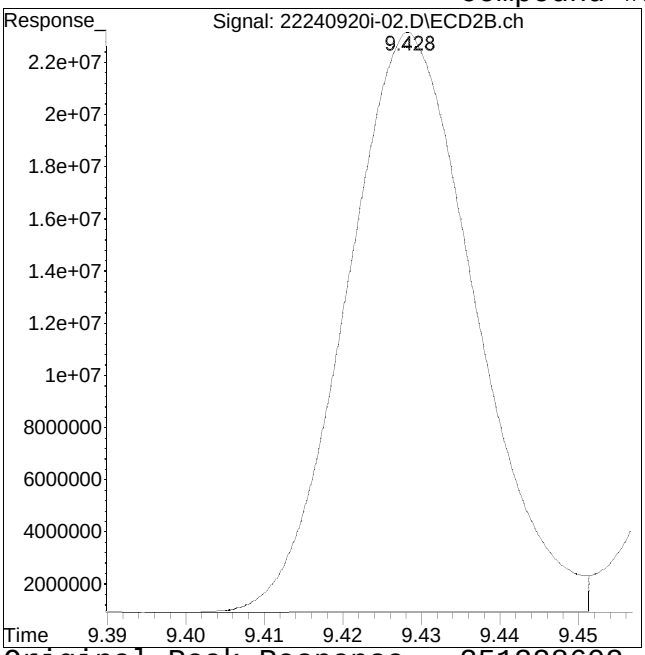


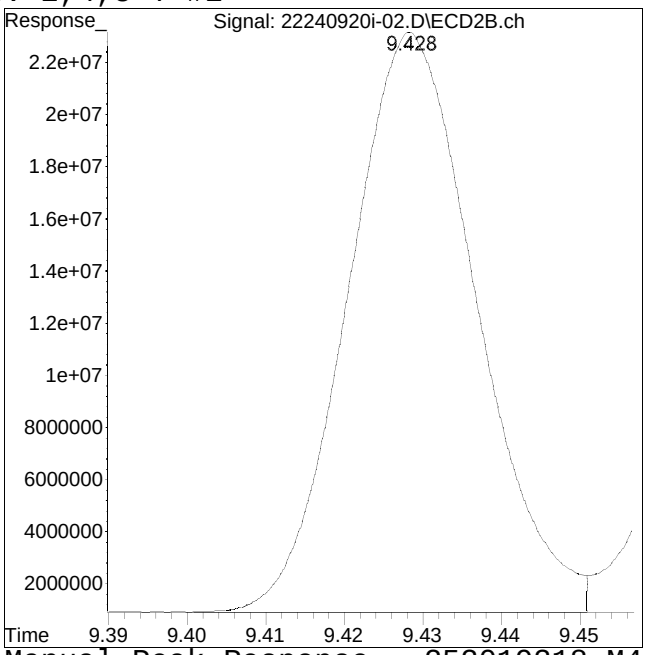
Original Peak Response = 235686388 Manual Peak Response = 215522242 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #23: 2,4,5-T #2



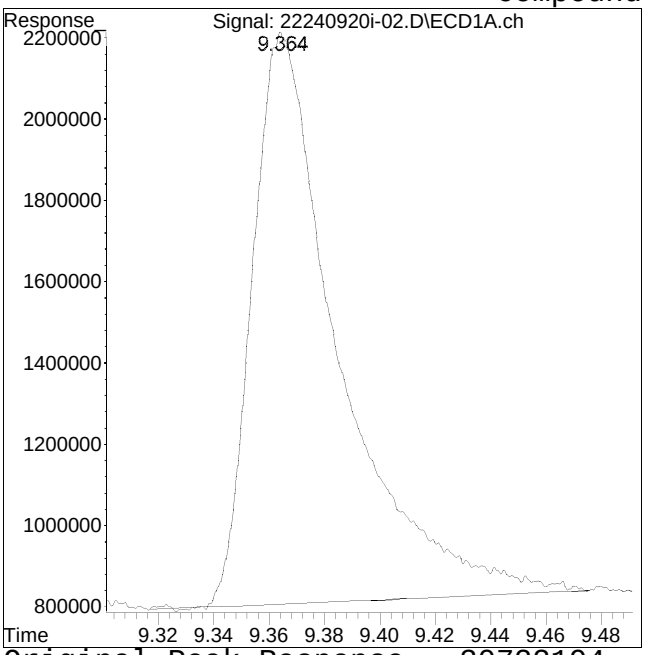


Original Peak Response = 251328602 Manual Peak Response = 252019318 M4
M4 = Poor automated baseline construction.

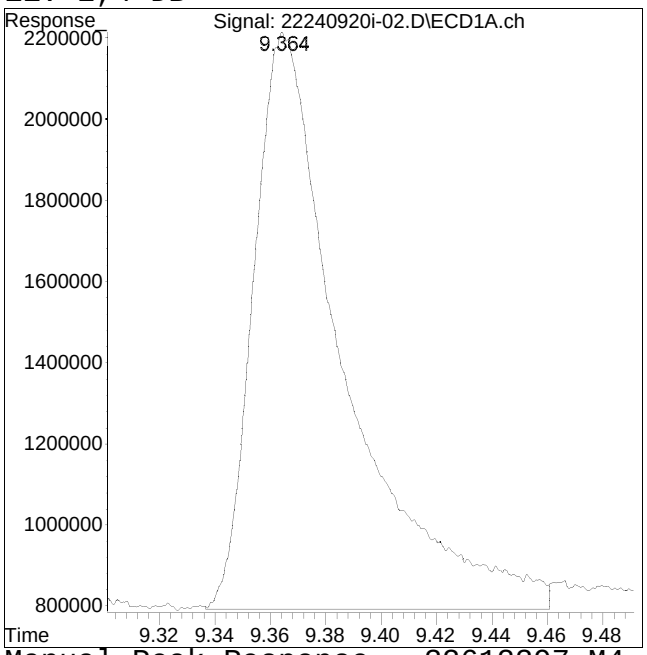
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #11: 2,4-DB



Original Peak Response = 30722194



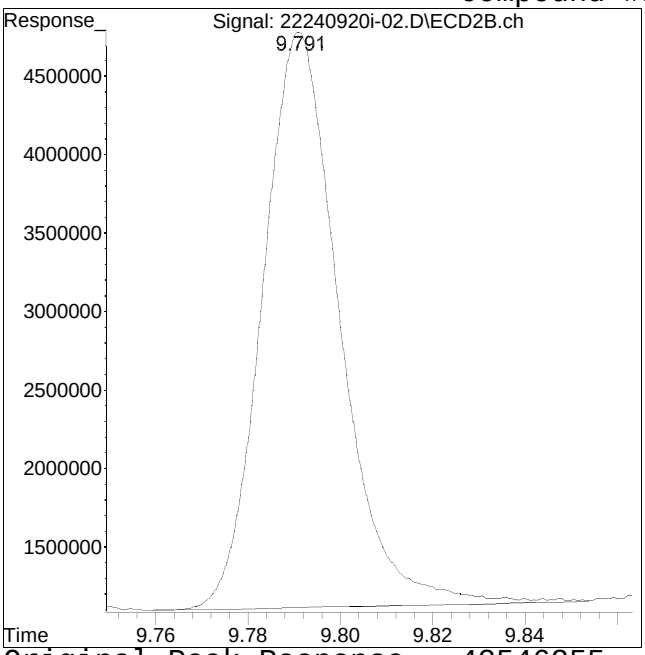
Manual Peak Response = 32612397 M4

M4 = Poor automated baseline construction.

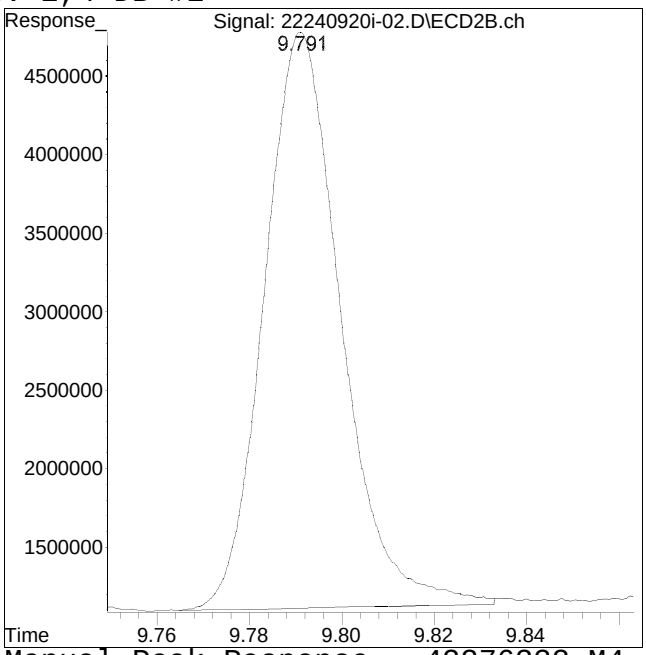
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #24: 2,4-DB #2



Original Peak Response = 42546255



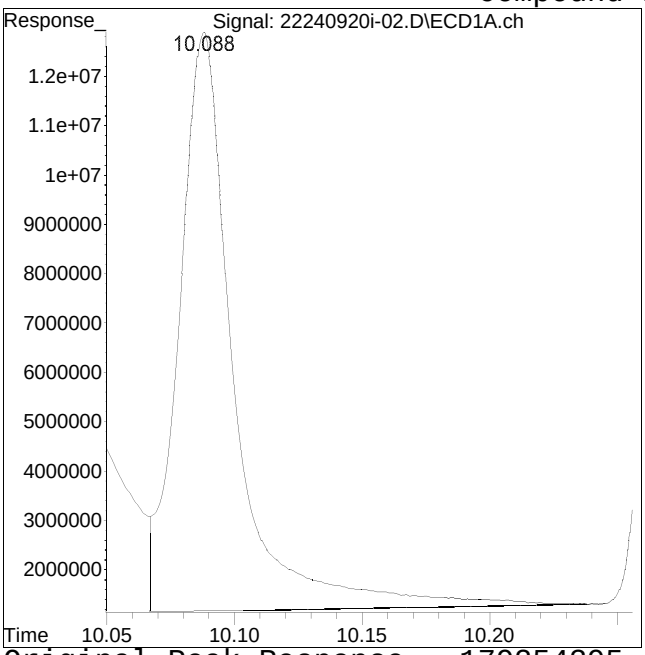
Manual Peak Response = 42276332 M4

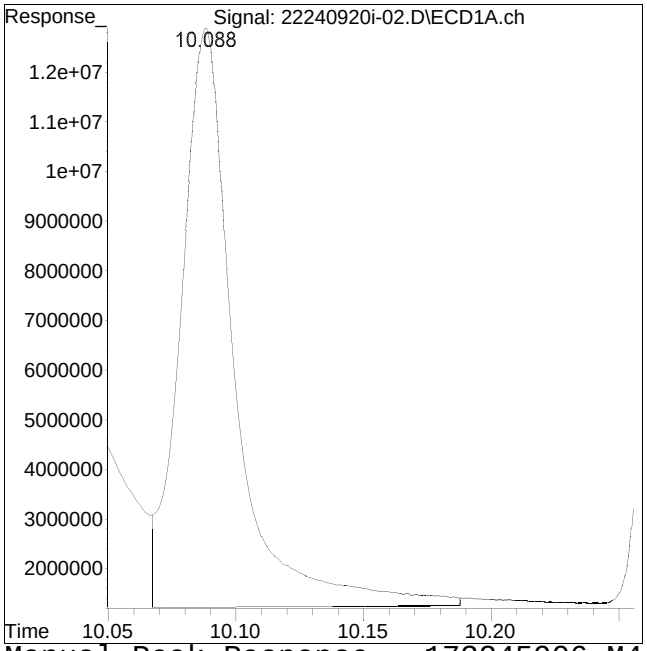
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #12: Dinoseb



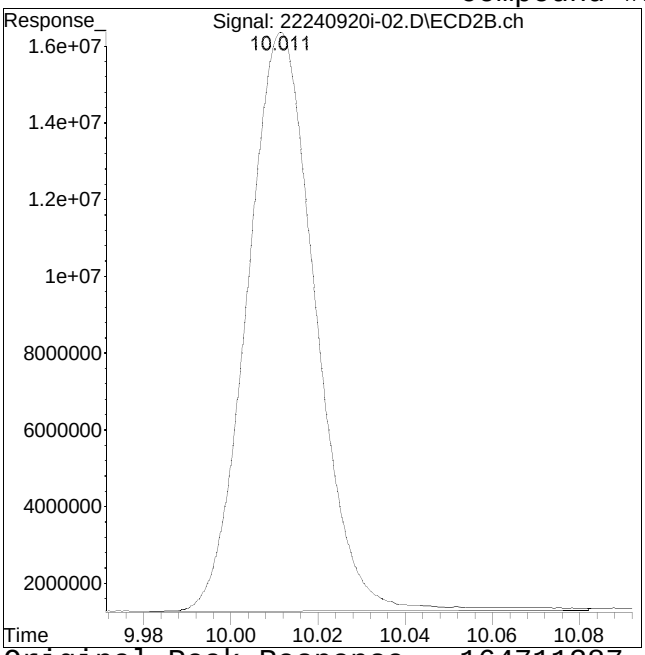


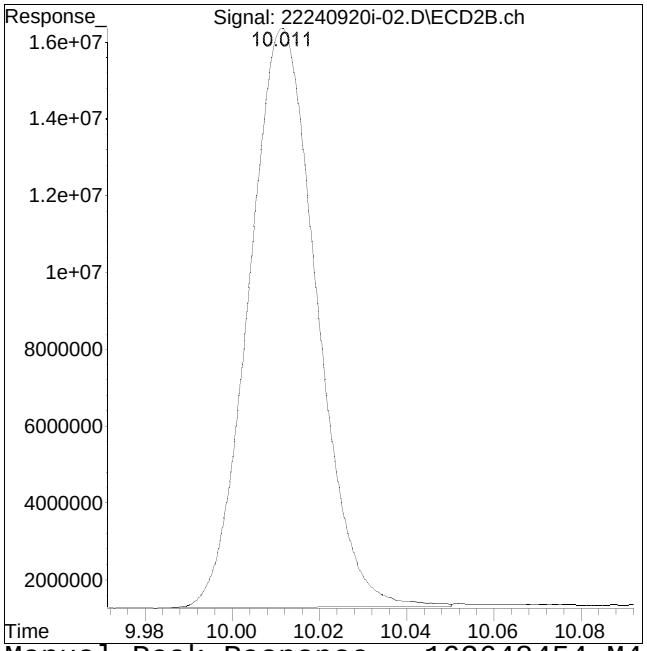
Original Peak Response = 179254395 Manual Peak Response = 173245906 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-02.D Operator : pest22:akm
Date Inj'd : 9/20/2024 11:42 am Instrument : Pest22
Sample : il1herb,42e,,pp 11633 L0.0Quant Date : 9/21/2024 8:33 am

Compound #25: Dinoseb #2





Original Peak Response = 164711387 Manual Peak Response = 162648454 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:01 pm
Operator : pest22:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:27:37 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:27:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.437	8.435	1259.9E6	1596.4E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.903	7.364	98009582	136.2E6	0.109M4	0.118M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	21.80%#	23.60%#
		Target Compounds						
2)	t	Dalapon	2.326	2.321	122.9E6	130.8E6	0.104M3	0.099M3
4)	t	Dicamba	7.077	7.542	303.3E6	362.5E6	0.110M4	0.111M4
5)	t	MCPP	7.276	7.655	22437726	30753638	8.849M4	8.884M4
6)	t	MCPA	7.423	7.882	45037977	63370790	10.397M4	10.753M4
7)	t	Dichloroprop	7.784	8.202	95191965	120.5E6	0.114M4	0.115M4
8)	t	2,4-D	8.009	8.478	112.0E6	151.3E6	0.109M3	0.112M4
9)	t	2,4,5-TP (Si	8.714	9.136	409.7E6	530.4E6	0.108M3	0.111M4
10)	t	2,4,5-T	8.940	9.428	411.2E6	521.3E6	0.108M4	0.109
11)	t	2,4-DB	9.355	9.790	58377768	85050468	0.104M3	0.109M4
12)	t	Dinoseb	10.087	10.011	325.4E6	336.1E6	0.122M4	0.111M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:01 pm
Operator : pest22:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:27:37 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:27:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

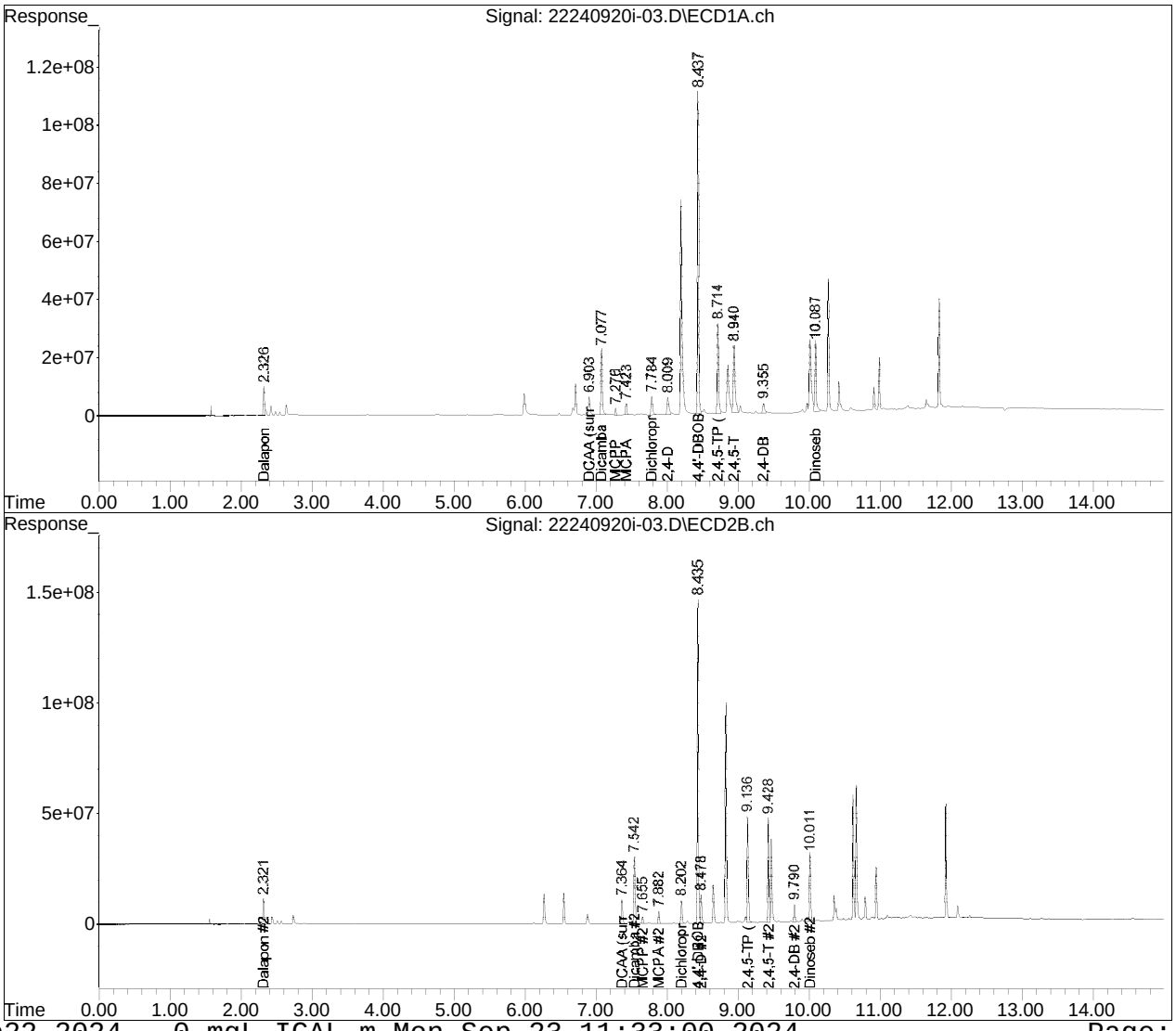
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-03.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:01 pm
Operator : pest22:akm
Sample : il2herb,42e,,pp 11632 L0.1/10
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:27:37 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:27:30 2024
Response via : Initial Calibration
Integrator: ChemStation

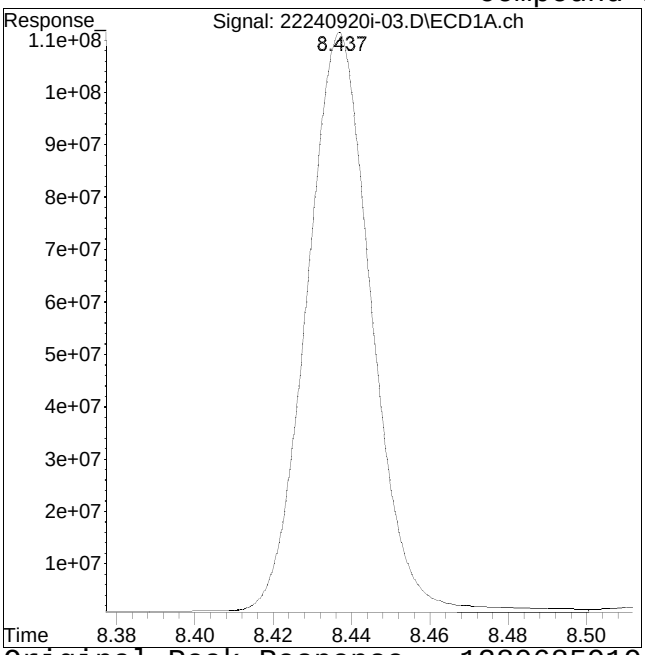
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

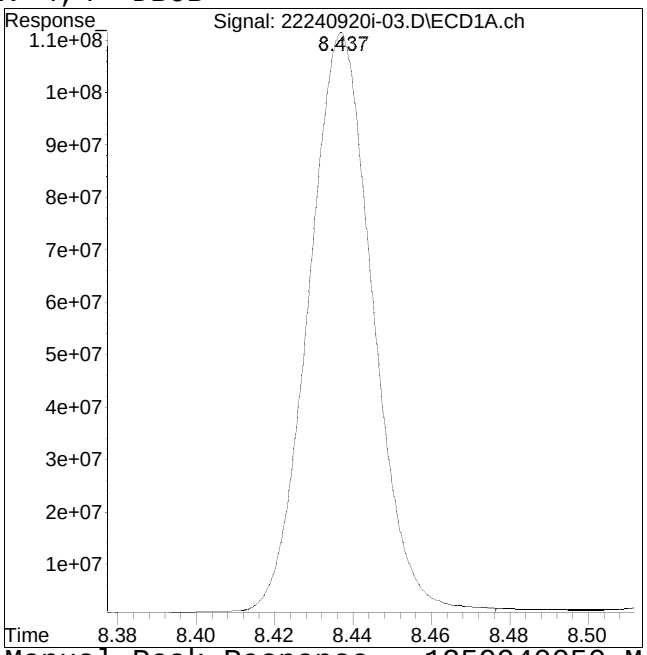


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #1: 4,4'-DBOB



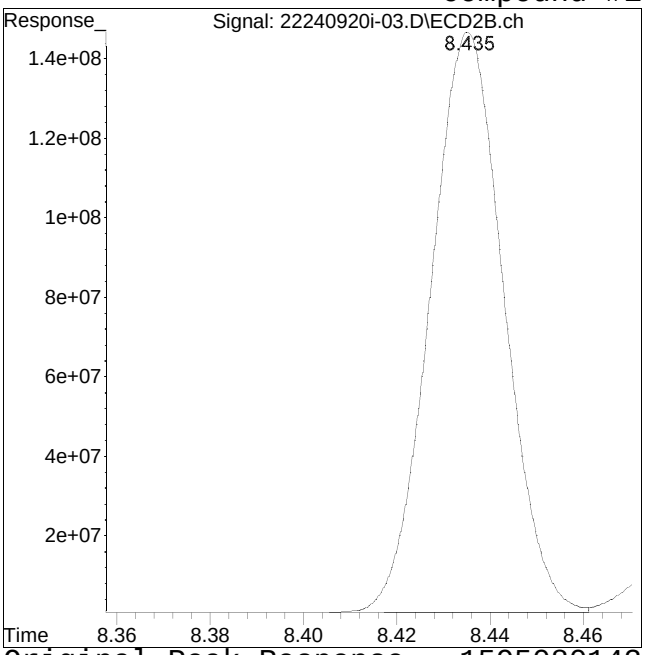


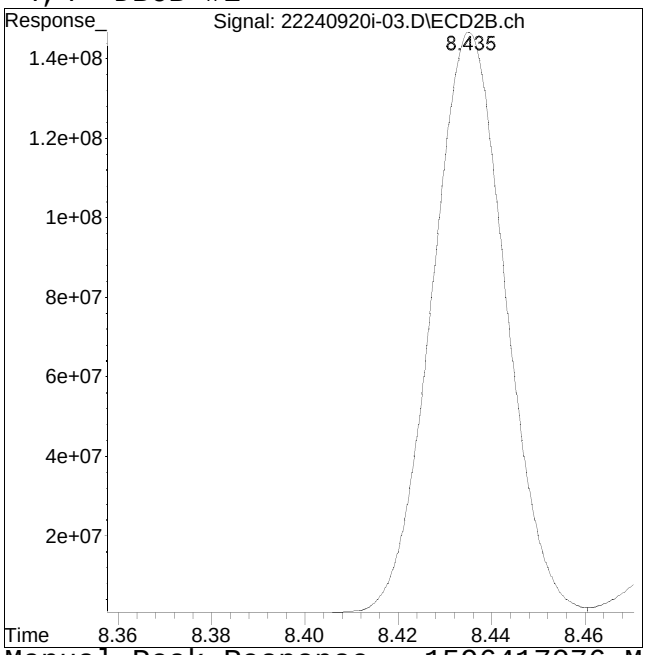
Original Peak Response = 1280685919 Manual Peak Response = 1259940050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #14: 4,4'-DBOB #2



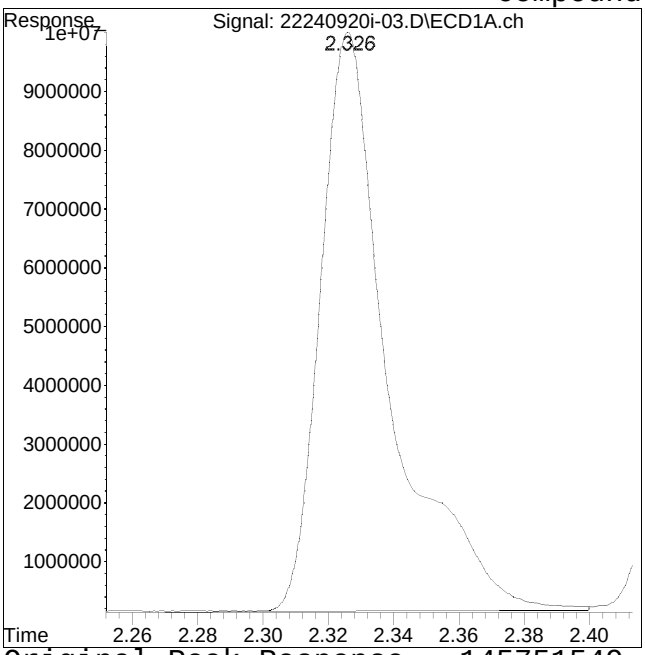


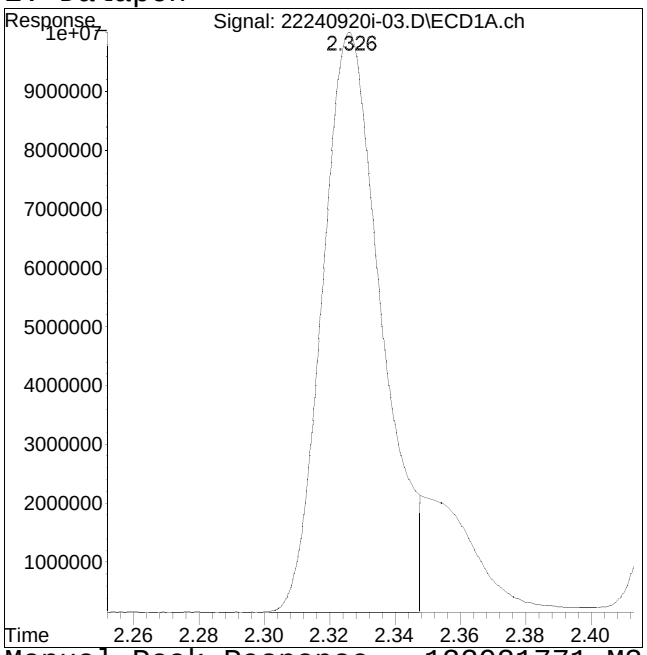
Original Peak Response = 1595080143 Manual Peak Response = 1596417076 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #2: Dalapon



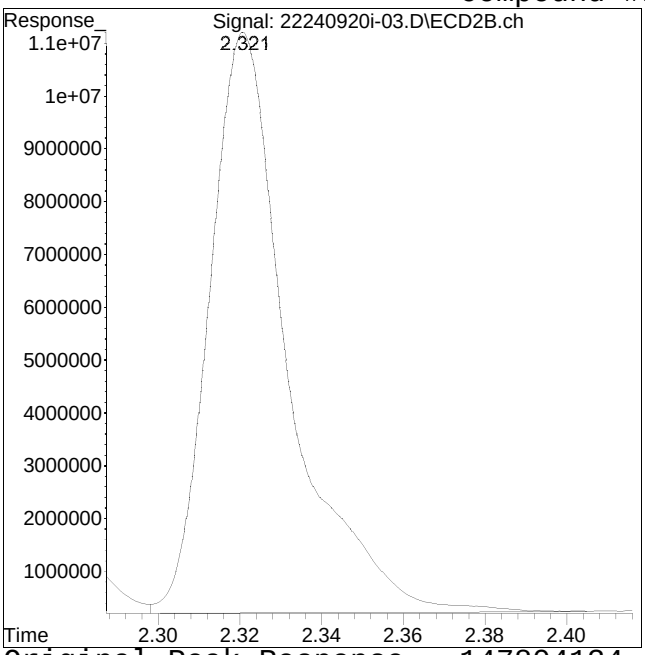


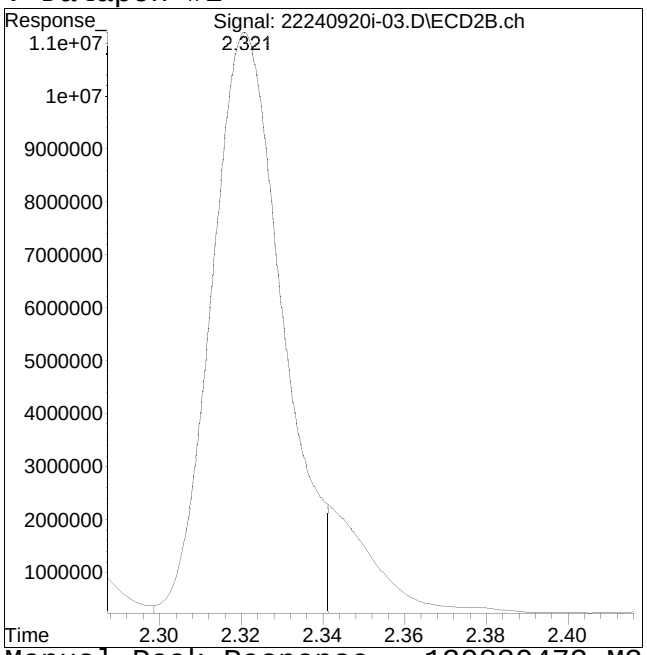
Original Peak Response = 145751549 Manual Peak Response = 122921771 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #15: Dalapon #2



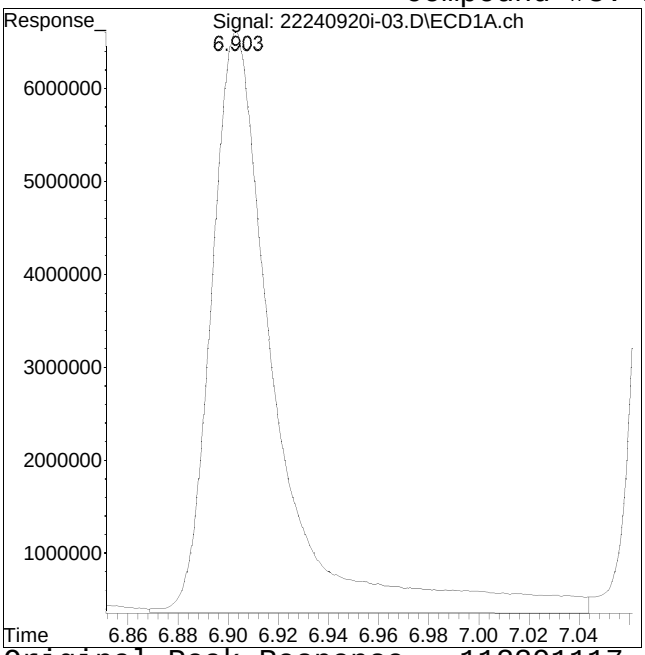


Original Peak Response = 147804134 Manual Peak Response = 130830473 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

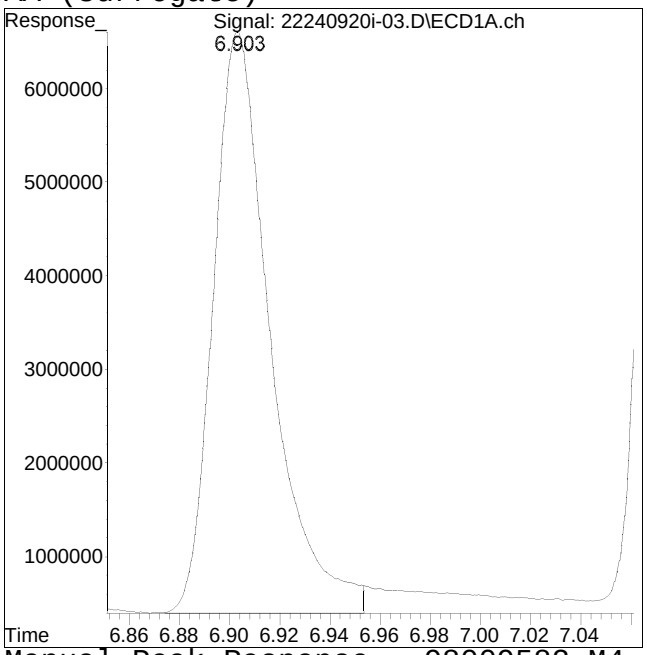
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #3: DCAA (surrogate)



Original Peak Response = 112391117



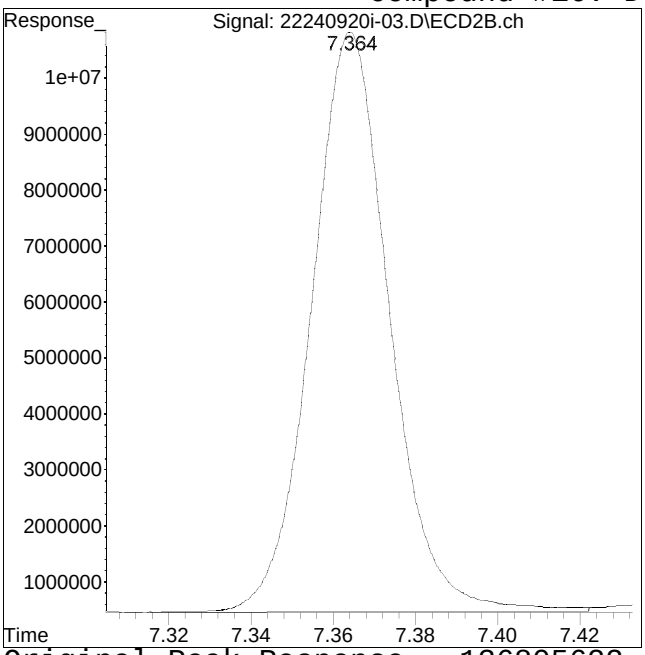
Manual Peak Response = 98009582 M4

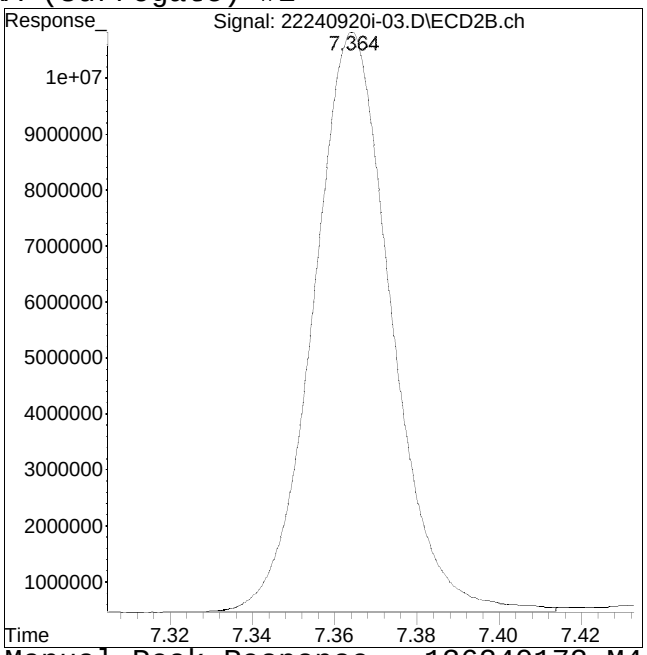
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #16: DCAA (surrogate) #2



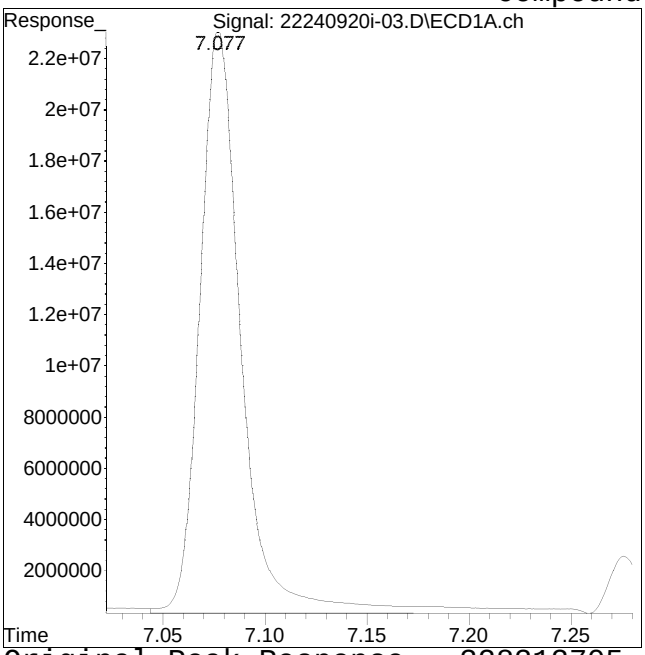


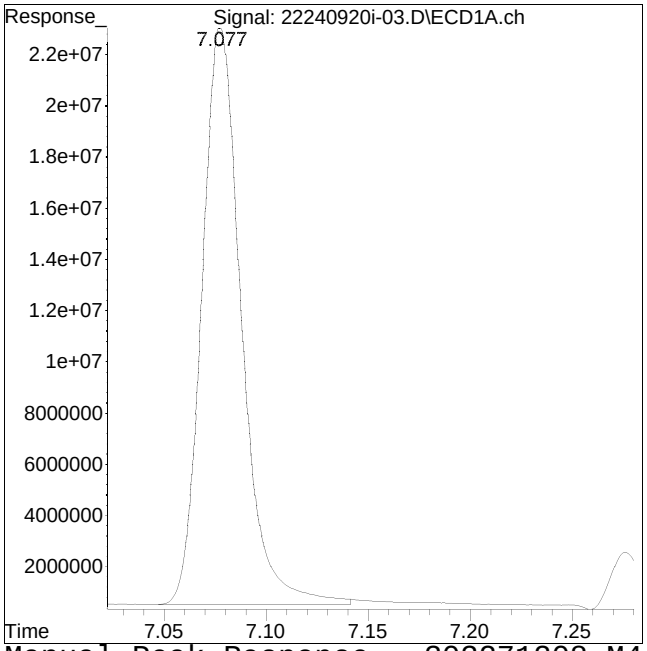
Original Peak Response = 136805622 Manual Peak Response = 136240172 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #4: Dicamba



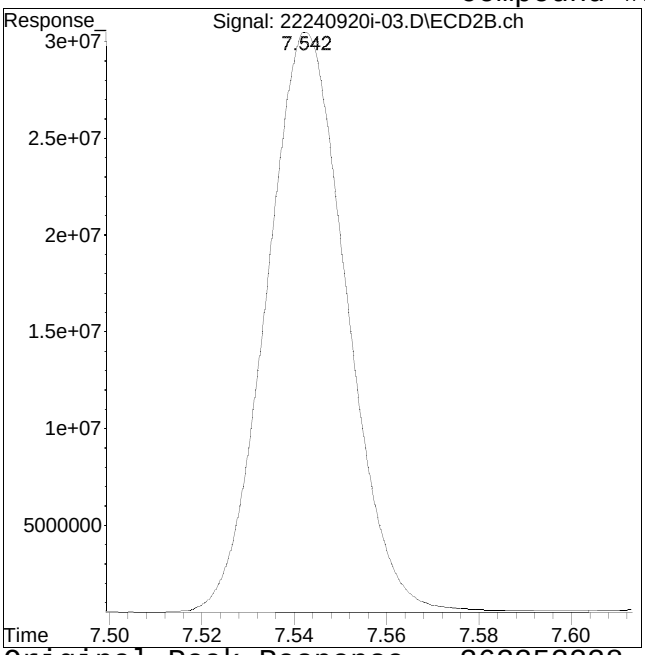


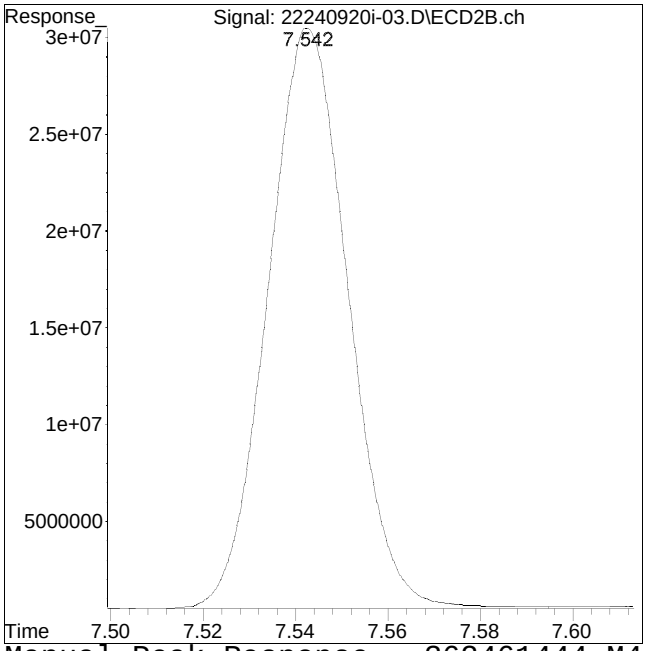
Original Peak Response = 328312705 Manual Peak Response = 303271208 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #17: Dicamba #2



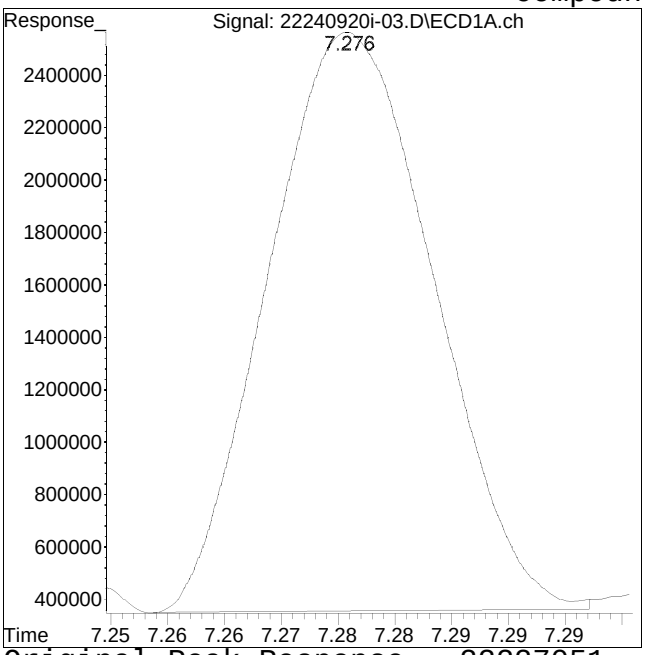


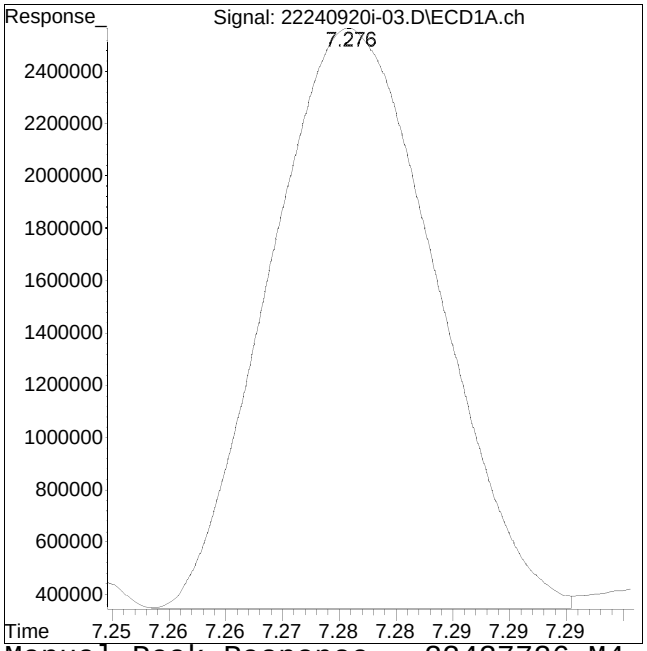
Original Peak Response = 363353338 Manual Peak Response = 362461444 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #5: MCPP



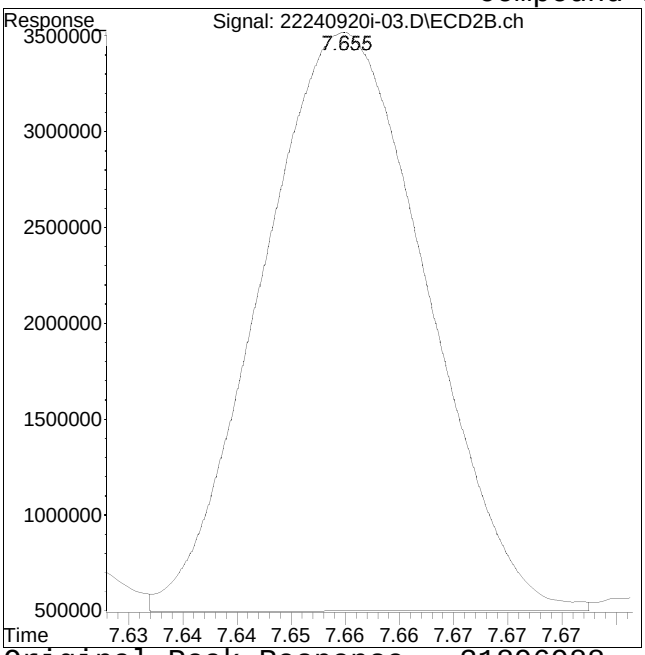


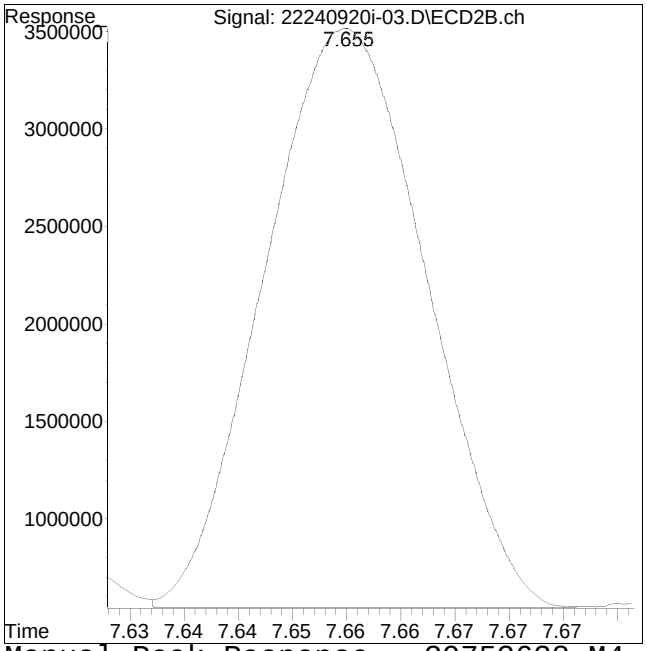
Original Peak Response = 22227051 Manual Peak Response = 22437726 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #18: MCPP #2



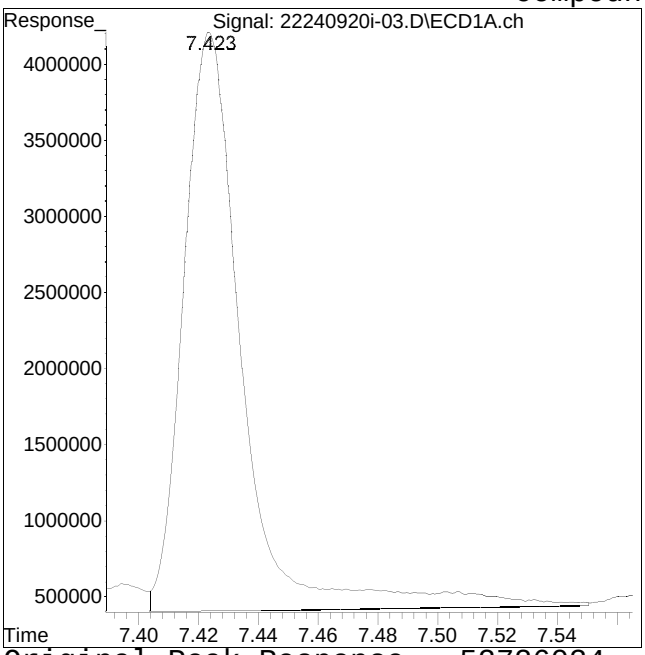


Original Peak Response = 31896988 Manual Peak Response = 30753638 M4
M4 = Poor automated baseline construction.

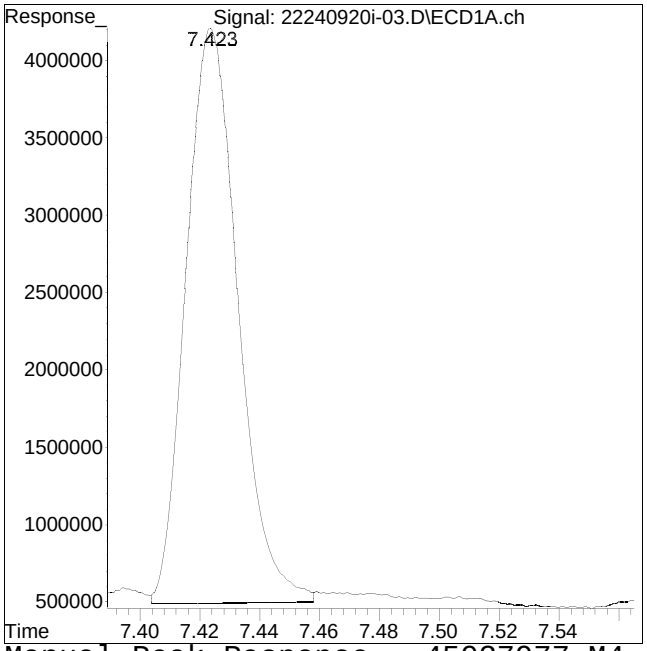
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #6: MCPA



Original Peak Response = 52726034



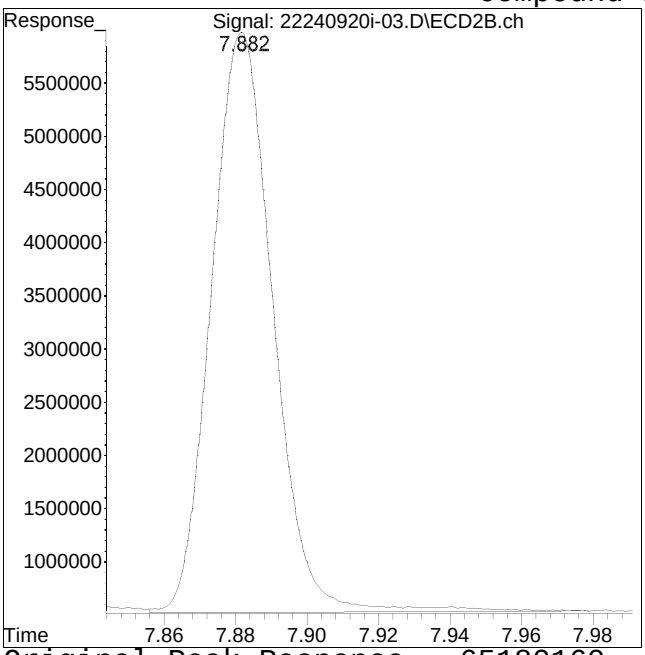
Manual Peak Response = 45037977 M4

M4 = Poor automated baseline construction.

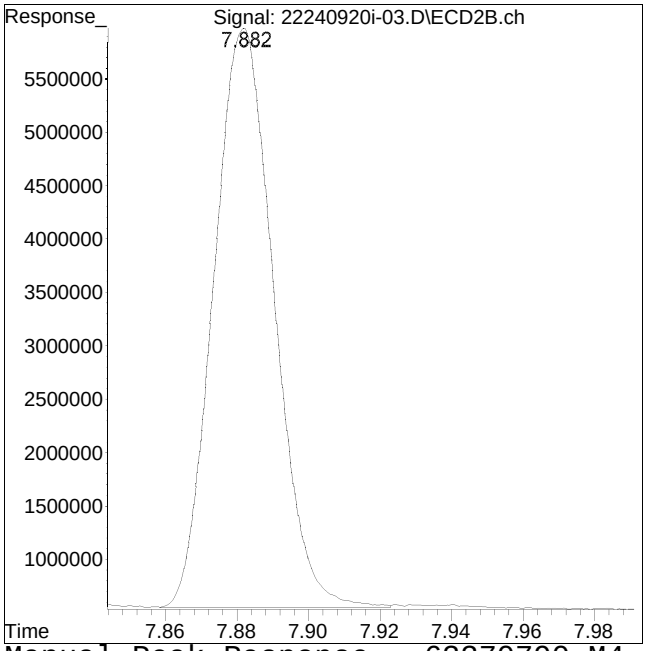
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #19: MCPA #2



Original Peak Response = 65180160



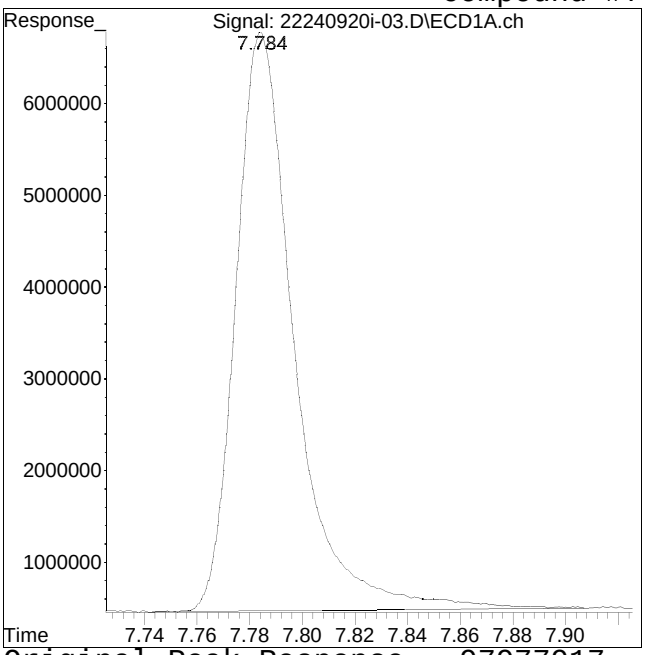
Manual Peak Response = 63370790 M4

M4 = Poor automated baseline construction.

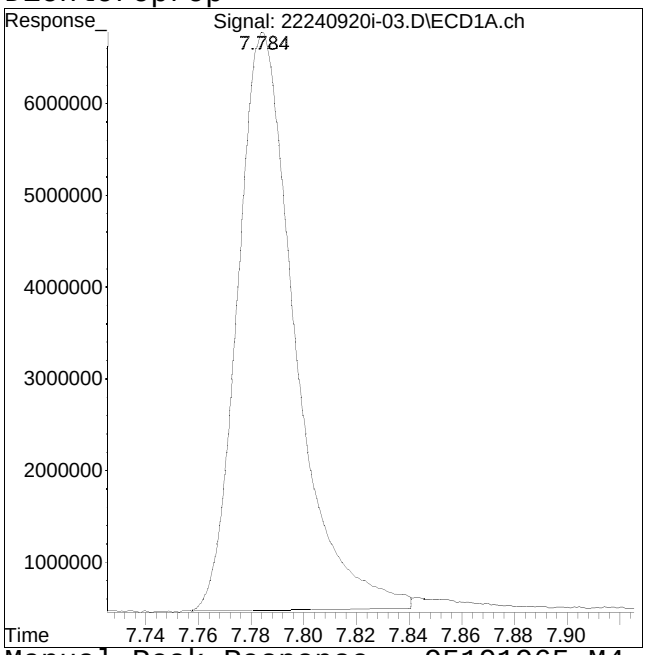
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #7: Dichloroprop



Original Peak Response = 97977917



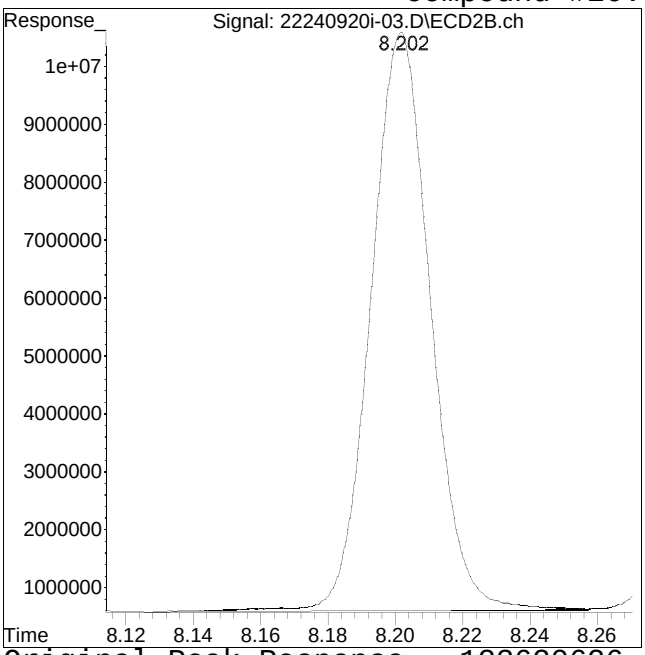
Manual Peak Response = 95191965 M4

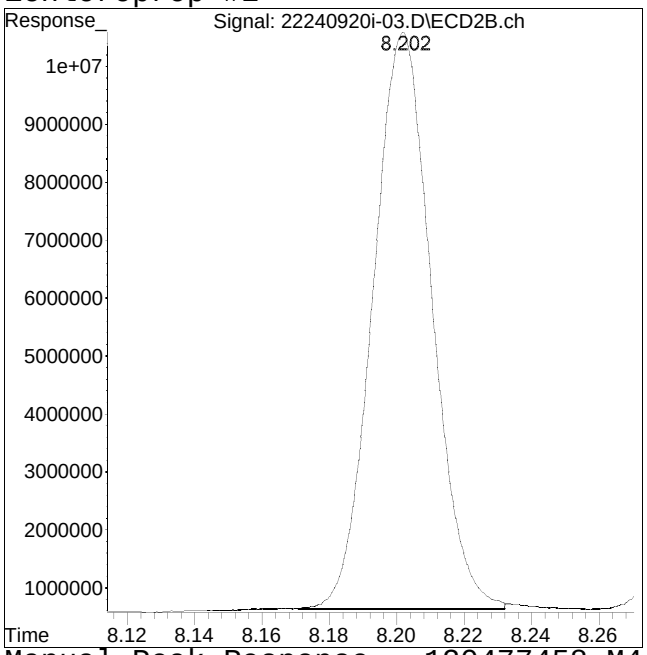
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #20: Dichloroprop #2



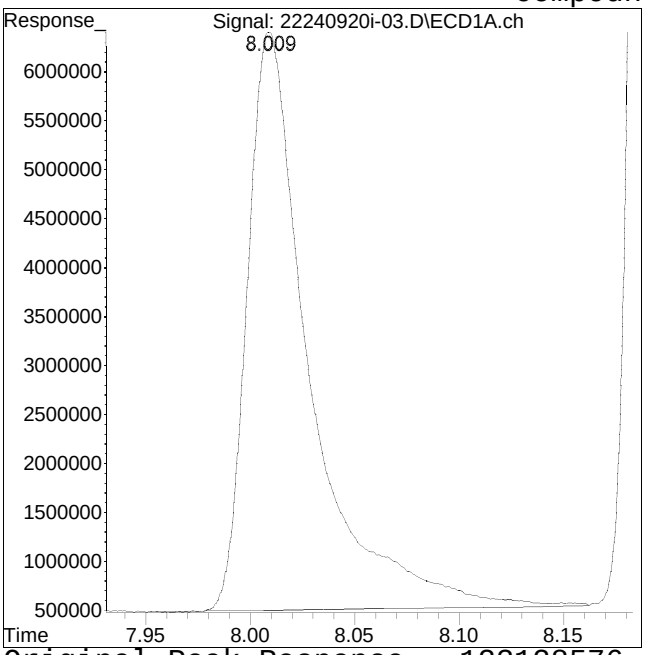


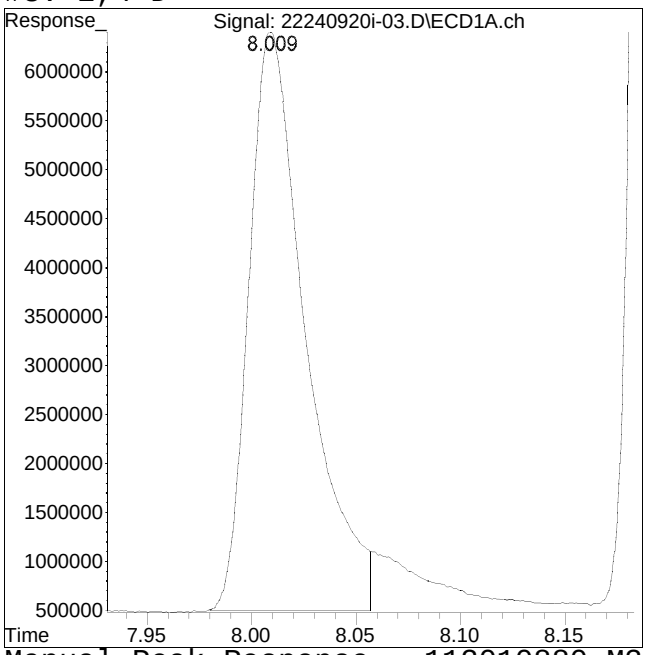
Original Peak Response = 123620626 Manual Peak Response = 120477458 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #8: 2,4-D



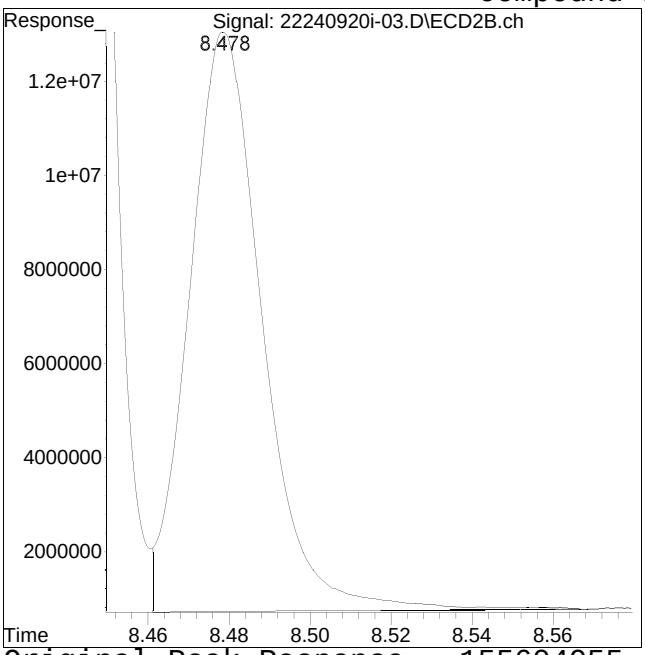


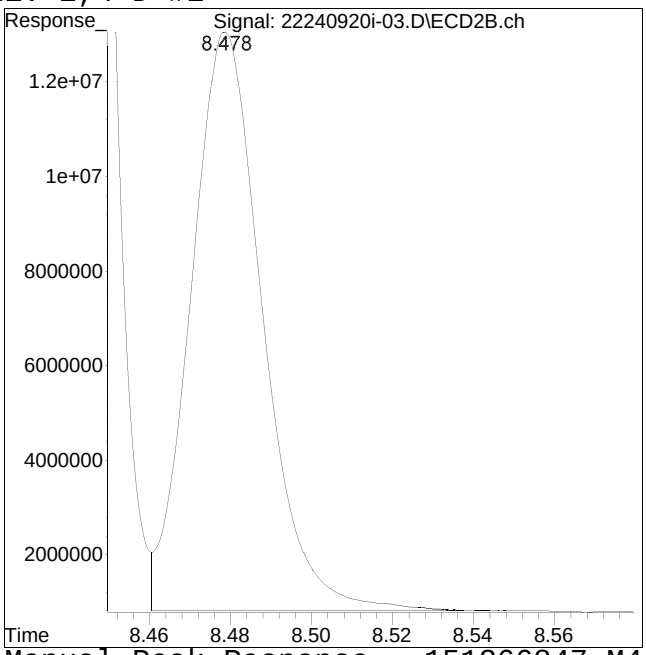
Original Peak Response = 123128576 Manual Peak Response = 112010880 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #21: 2,4-D #2



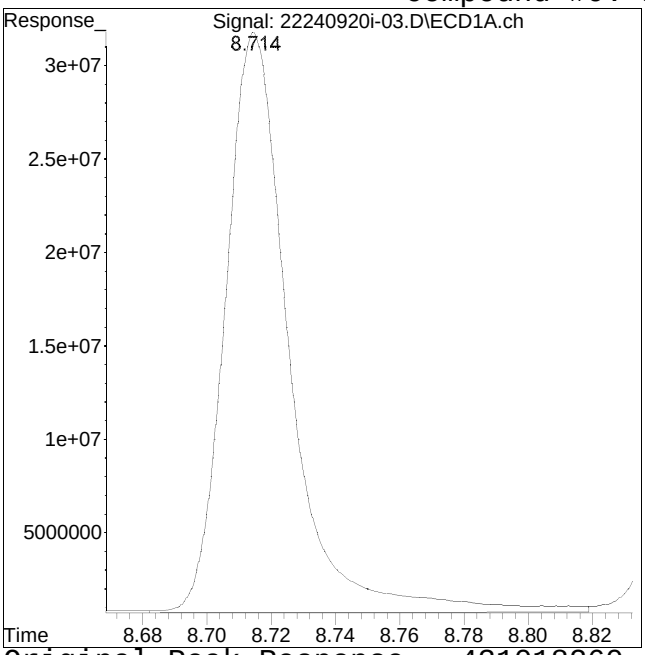


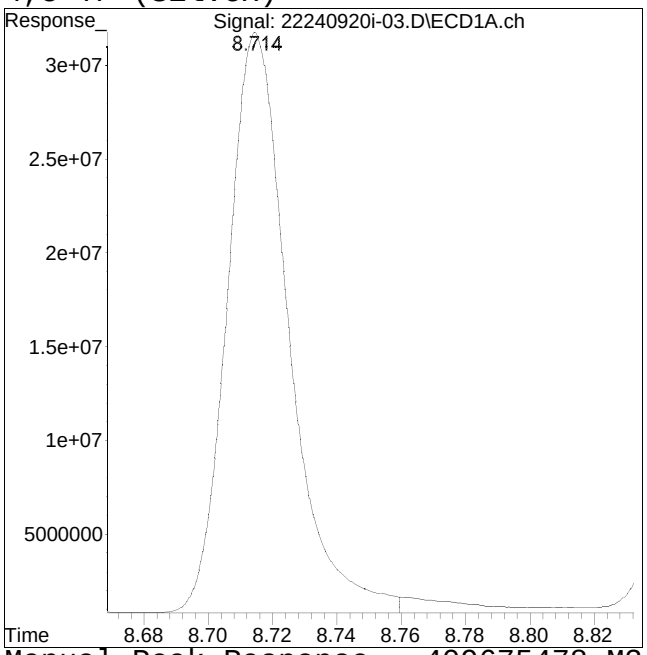
Original Peak Response = 155604955 Manual Peak Response = 151266847 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #9: 2,4,5-TP (Silvex)



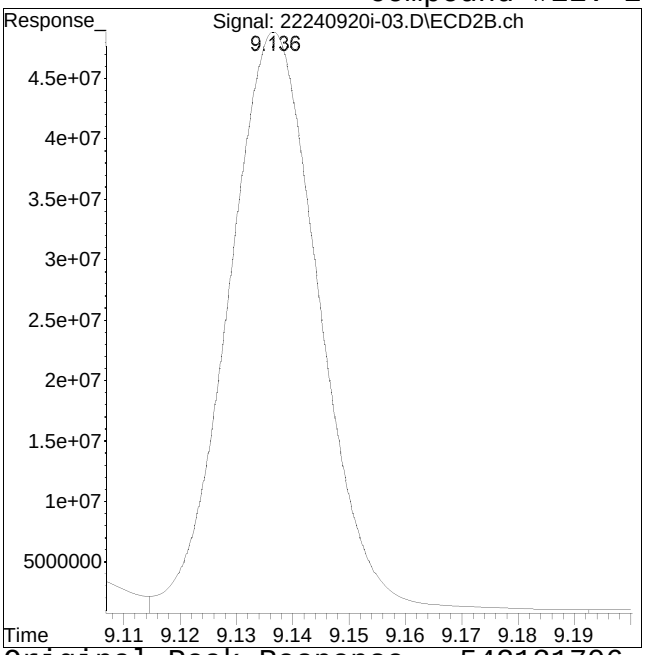


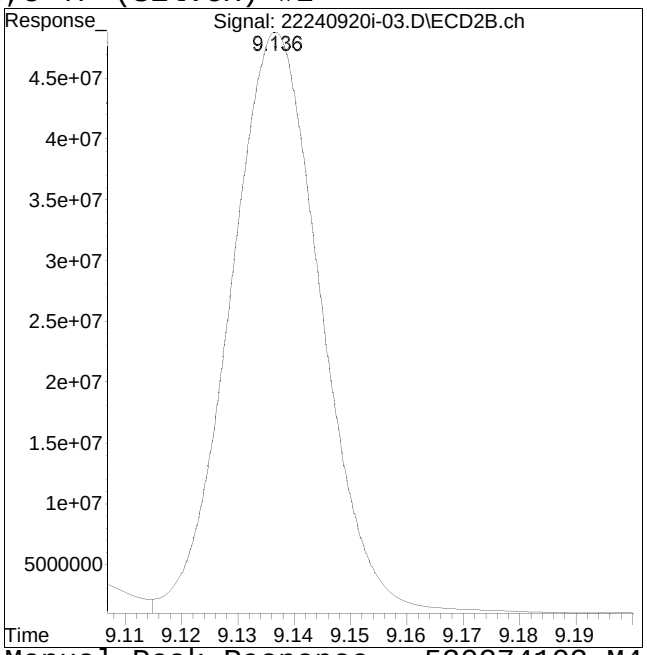
Original Peak Response = 431018260 Manual Peak Response = 409675478 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #22: 2,4,5-TP (Silvex) #2



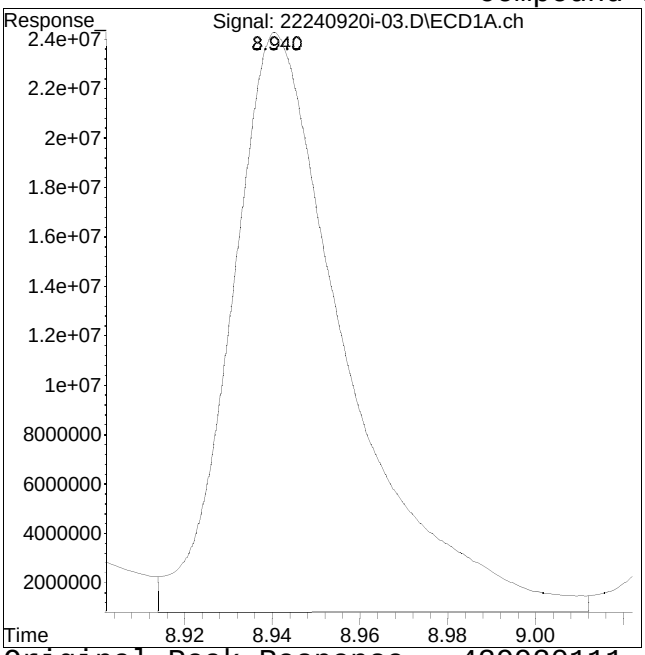


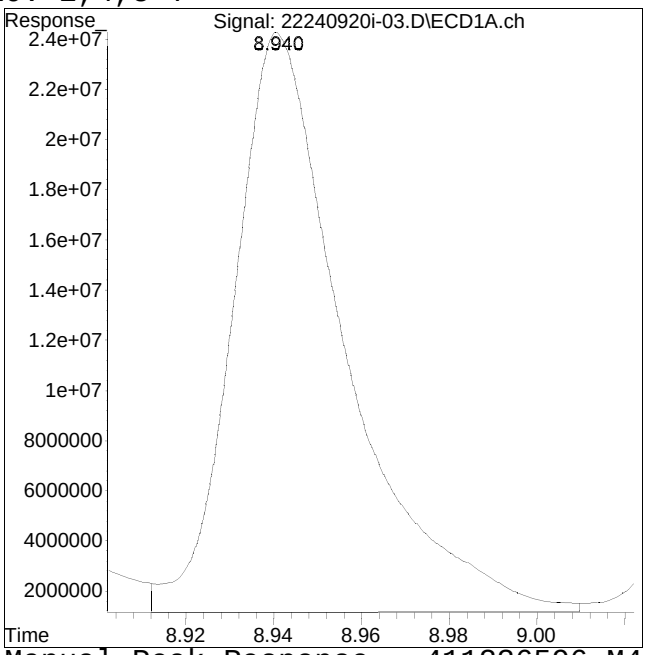
Original Peak Response = 542121706 Manual Peak Response = 530374103 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #10: 2,4,5-T



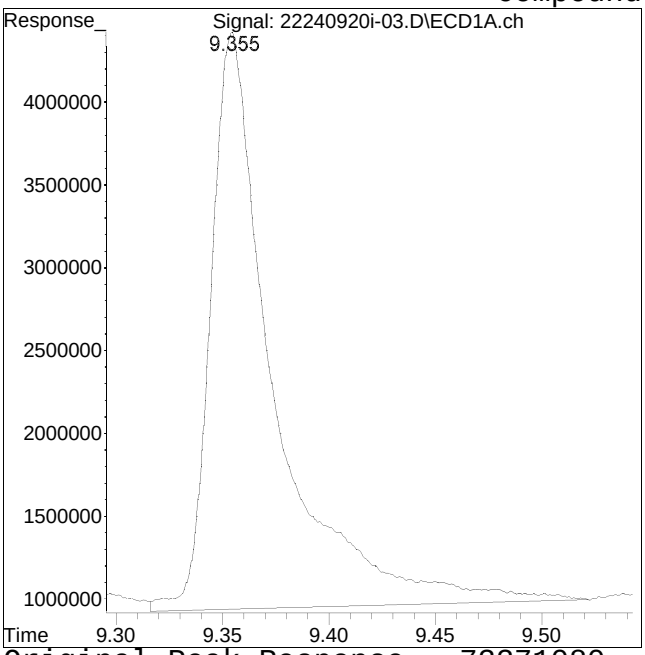


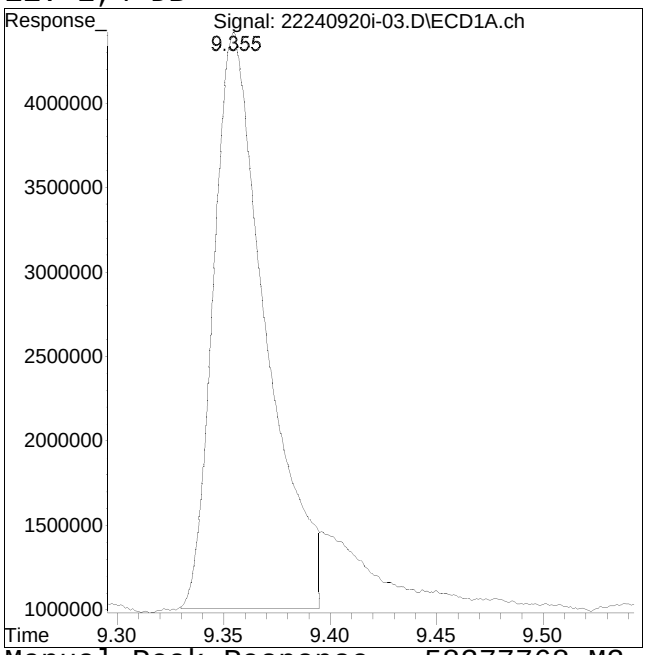
Original Peak Response = 429920111 Manual Peak Response = 411236596 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #11: 2,4-DB



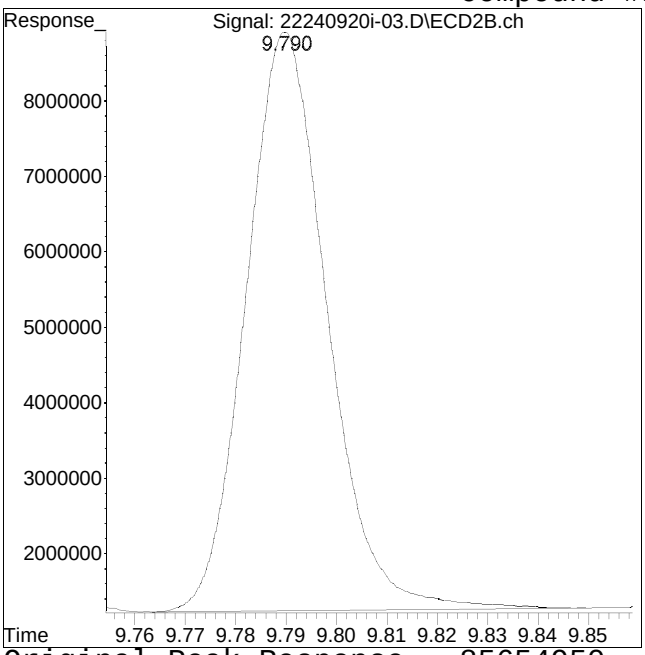


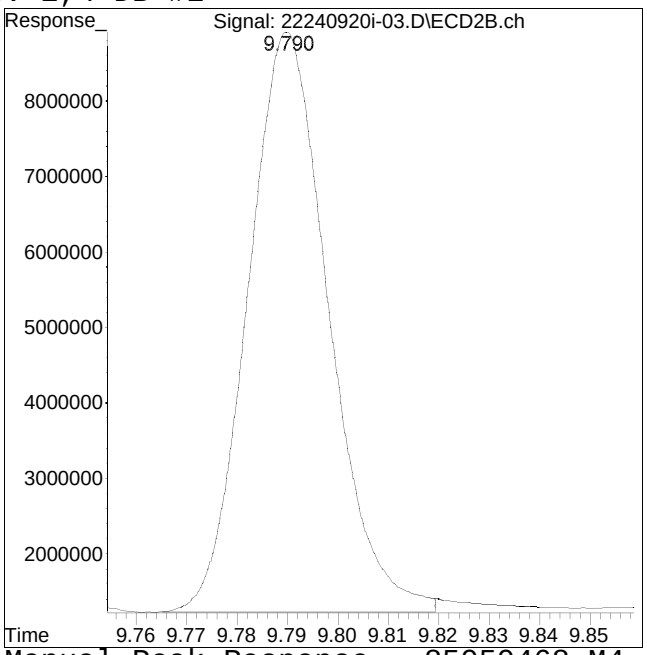
Original Peak Response = 73371080 Manual Peak Response = 58377768 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #24: 2,4-DB #2



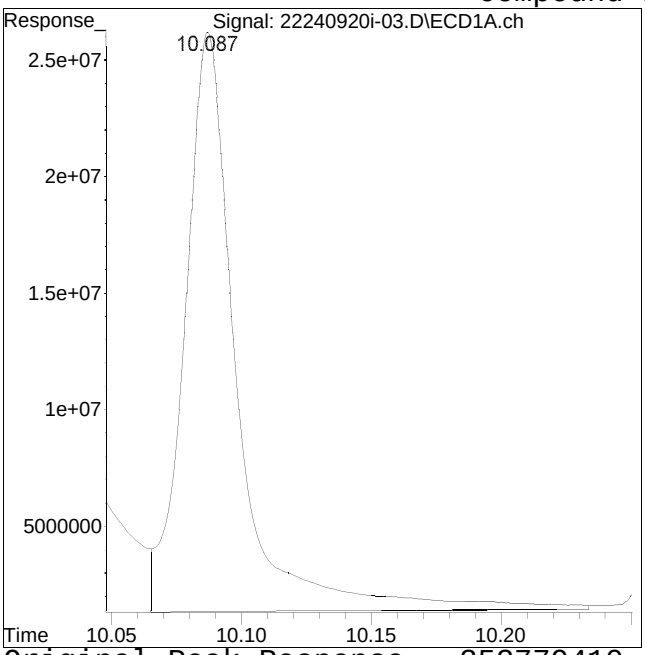


Original Peak Response = 85654950 Manual Peak Response = 85050468 M4
M4 = Poor automated baseline construction.

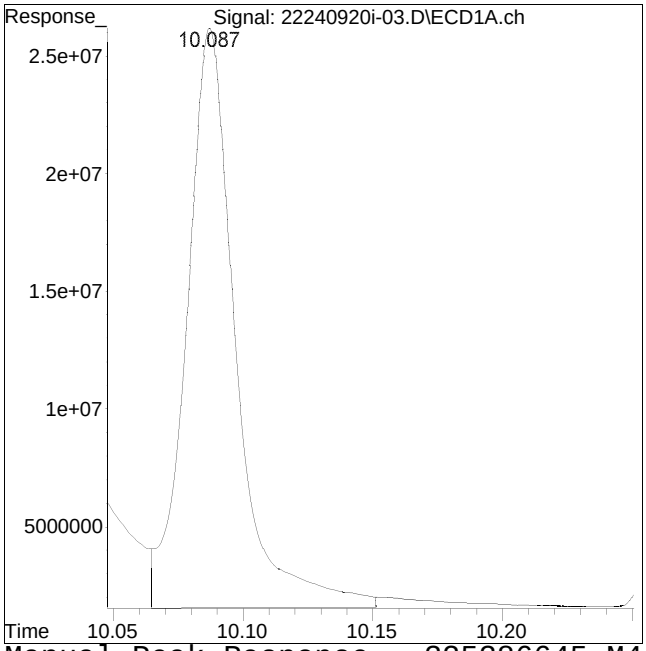
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #12: Dinoseb



Original Peak Response = 353779410



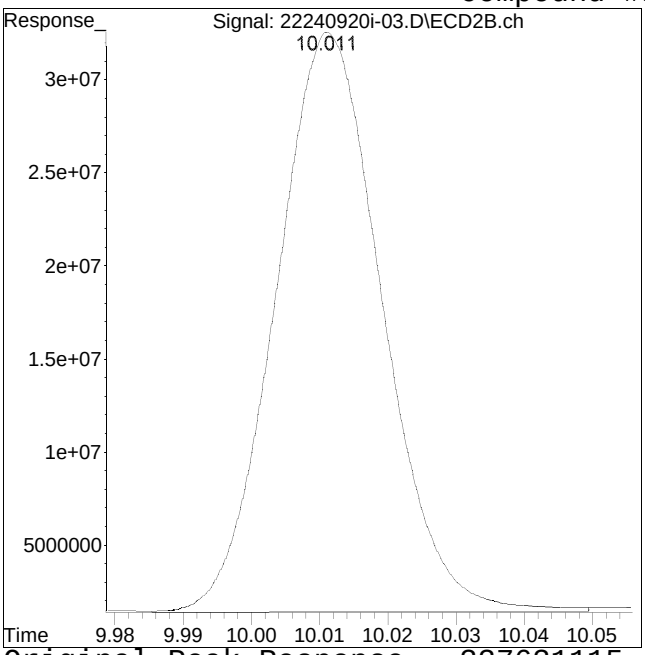
Manual Peak Response = 325386645 M4

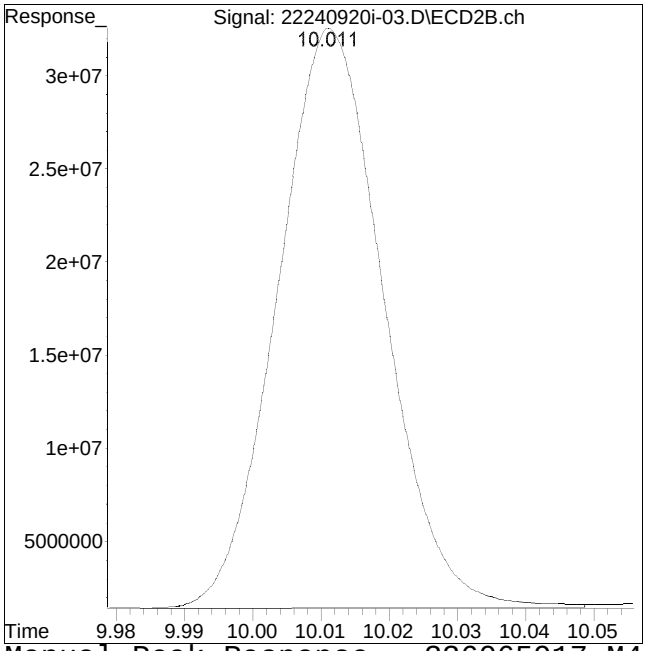
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-03.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:01 pm Instrument : Pest22
Sample : il2herb,42e,,pp 11632 L0.1Quant Date : 9/21/2024 8:27 am

Compound #25: Dinoseb #2





Original Peak Response = 337631115 Manual Peak Response = 336065917 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:20 pm
Operator : pest22:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 07:00:30 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 07:00:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1257.9E6	1593.0E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.900	7.364	189.0E6	236.7E6	0.188M4	0.188M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	37.60%	37.60%
		Target Compounds						
2)	t	Dalapon	2.326	2.321	232.1E6	262.8E6	0.182M3	0.182M4
4)	t	Dicamba	7.076	7.542	569.2E6	667.7E6	0.188M4	0.188M4
5)	t	MCPP	7.276	7.655	48106360	64105928	18.800M4	18.800M4
6)	t	MCPA	7.422	7.881	89263411	117.2E6	18.600M3	18.600M4
7)	t	Dichloroprop	7.782	8.201	179.3E6	218.4E6	0.188M4	0.188M4
8)	t	2,4-D	8.004	8.478	211.2E6	277.3E6	0.188M3	0.188M4
9)	t	2,4,5-TP (Si	8.713	9.137	795.3E6	993.0E6	0.190M4	0.190M4
10)	t	2,4,5-T	8.941	9.428	800.2E6	967.1E6	0.190M3	0.190
11)	t	2,4-DB	9.351	9.790	119.1E6	160.5E6	0.192M4	0.192
12)	t	Dinoseb	10.087	10.012	607.8E6	626.1E6	0.204M4	0.190M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:20 pm
Operator : pest22:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 07:00:30 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 07:00:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

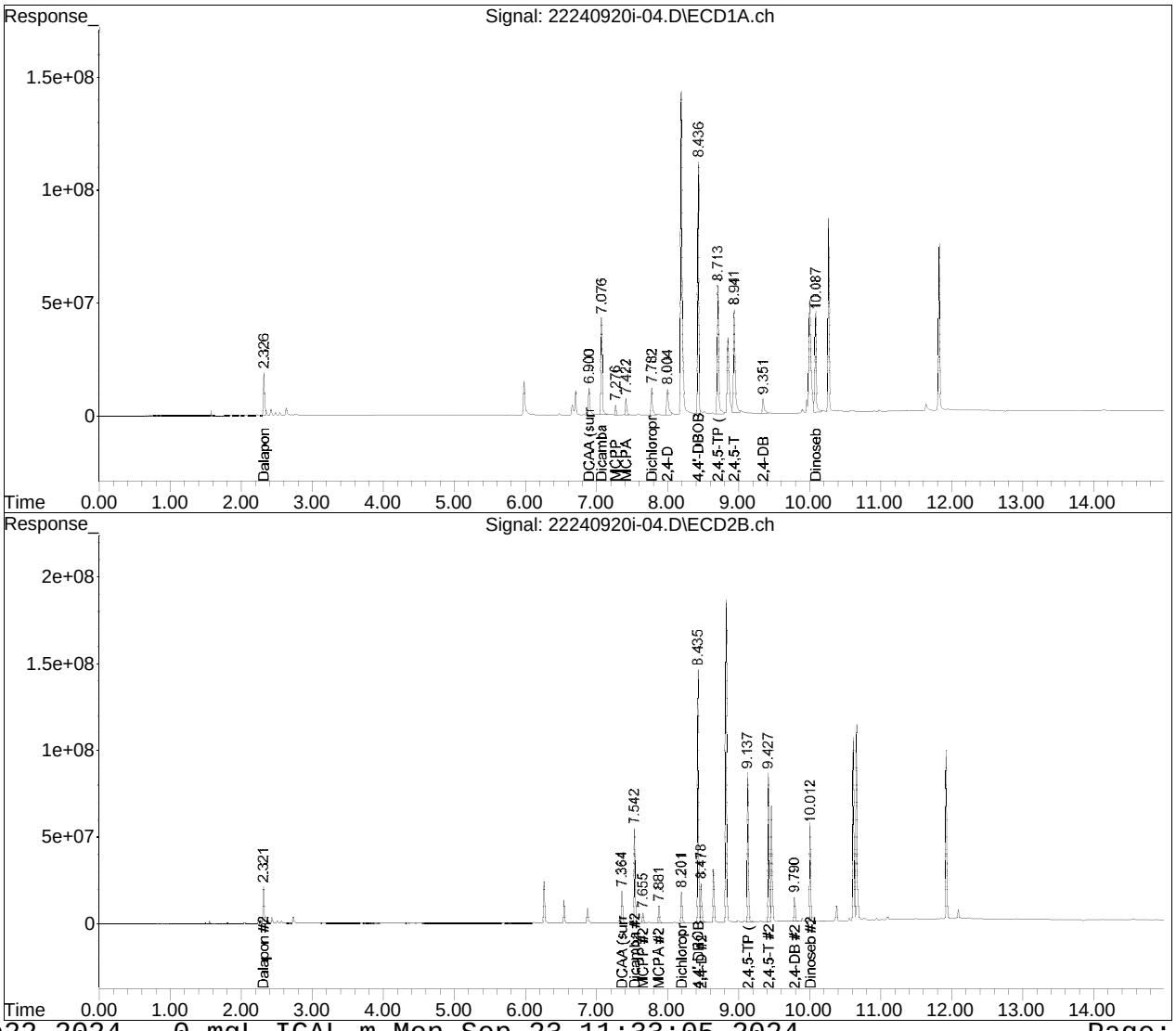
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:20 pm
Operator : pest22:akm
Sample : il3herb,42e,,pp 11631 L0.2/20
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 07:00:30 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 07:00:23 2024
Response via : Initial Calibration
Integrator: ChemStation

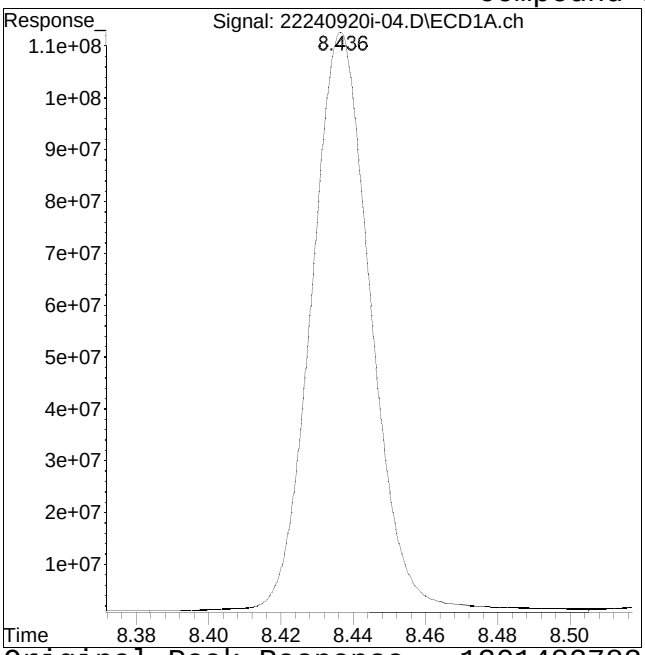
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

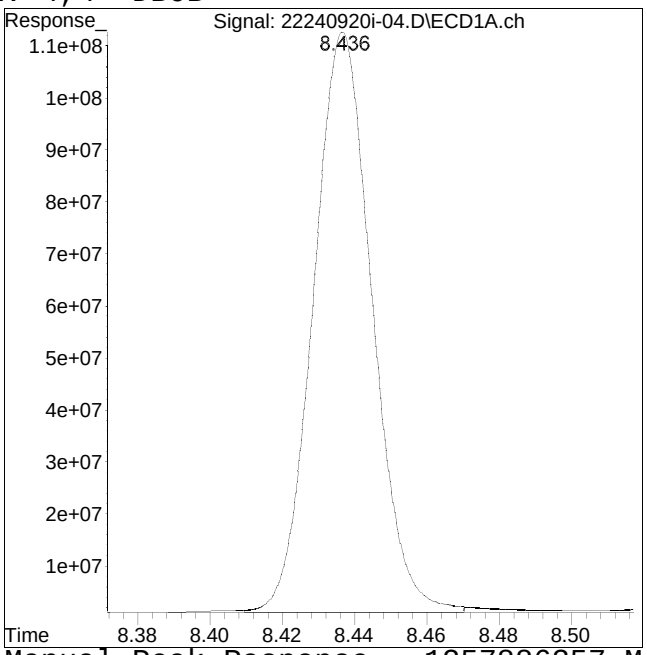


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #1: 4,4'-DBOB



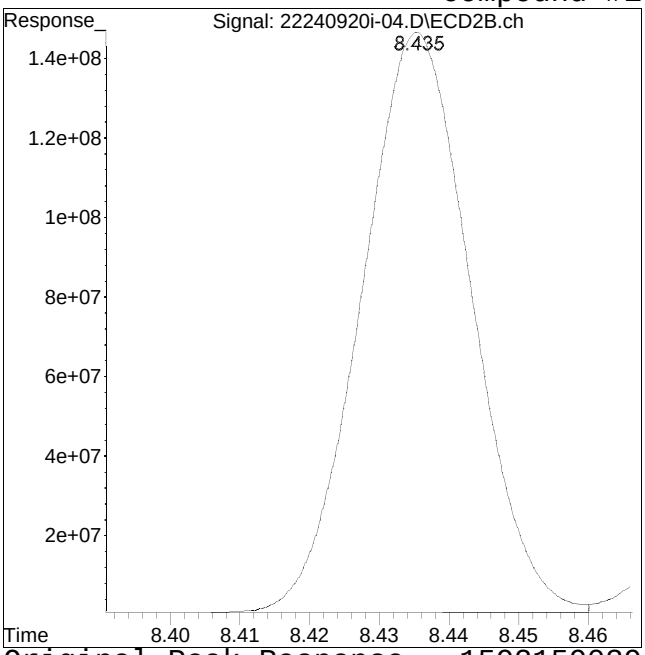


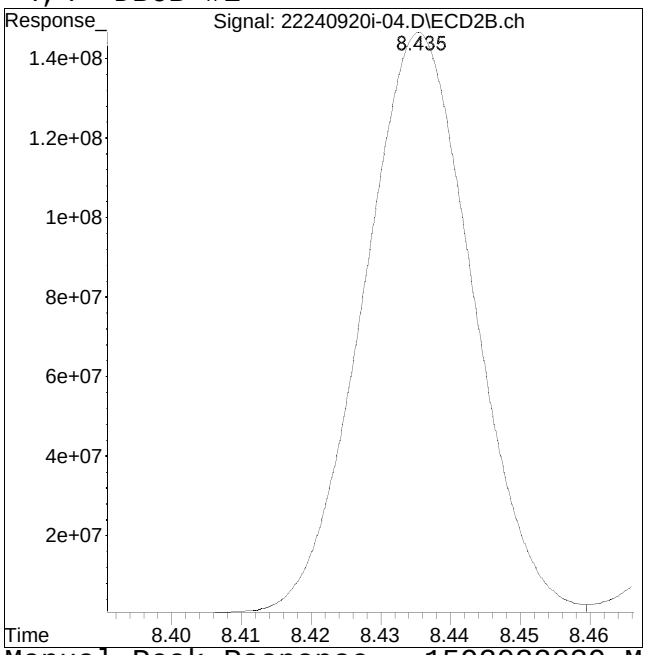
Original Peak Response = 1301482783 Manual Peak Response = 1257886357 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #14: 4,4'-DBOB #2



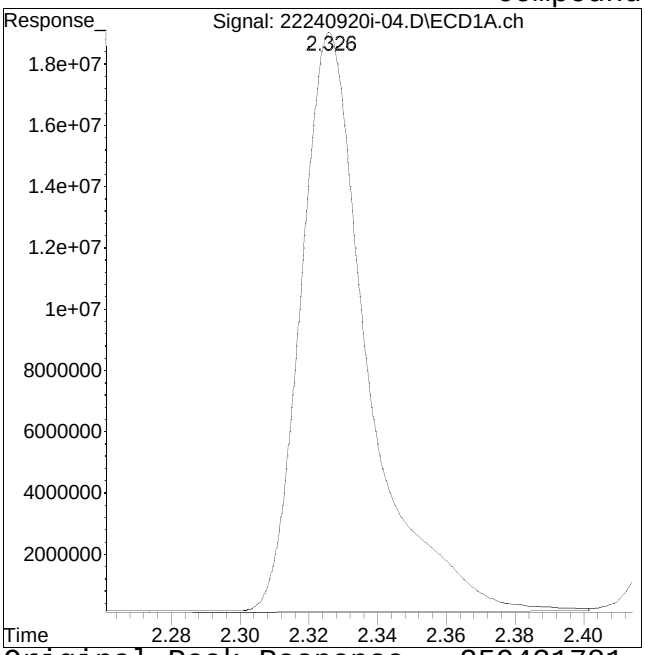


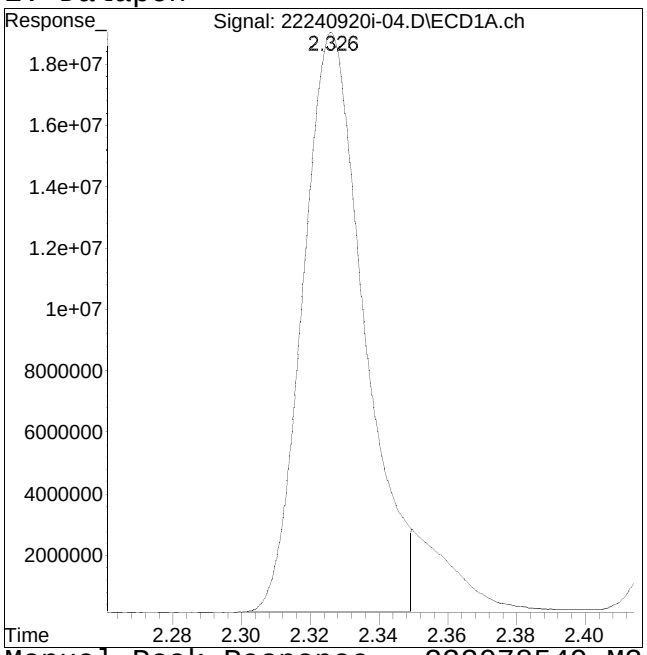
Original Peak Response = 1592159039 Manual Peak Response = 1593032039 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #2: Dalapon



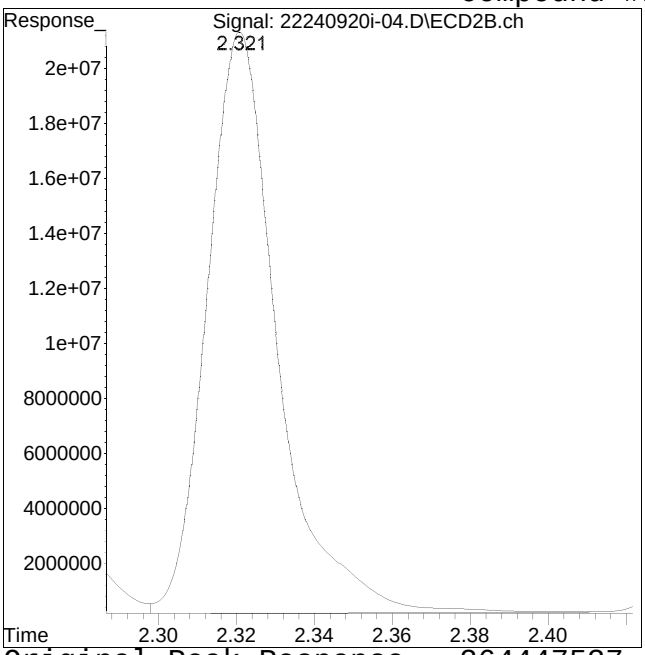


Original Peak Response = 259431781 Manual Peak Response = 232078549 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

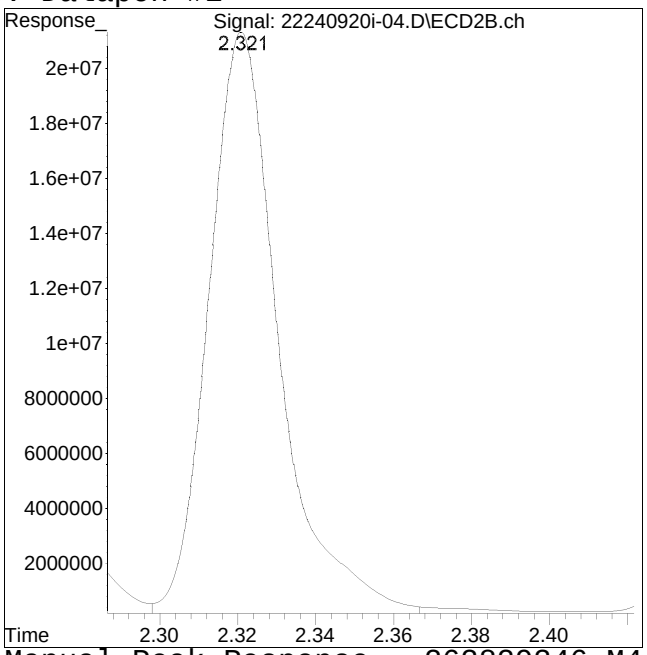
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #15: Dalapon #2



Original Peak Response = 264447537



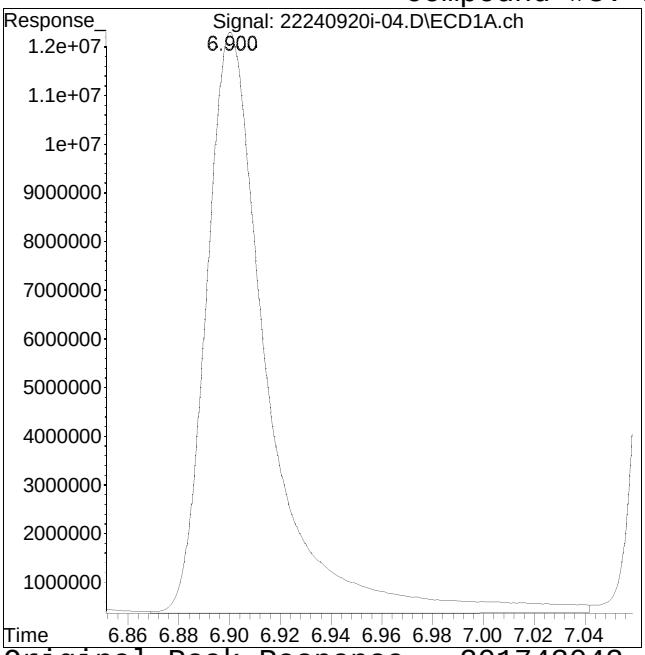
Manual Peak Response = 262829346 M4

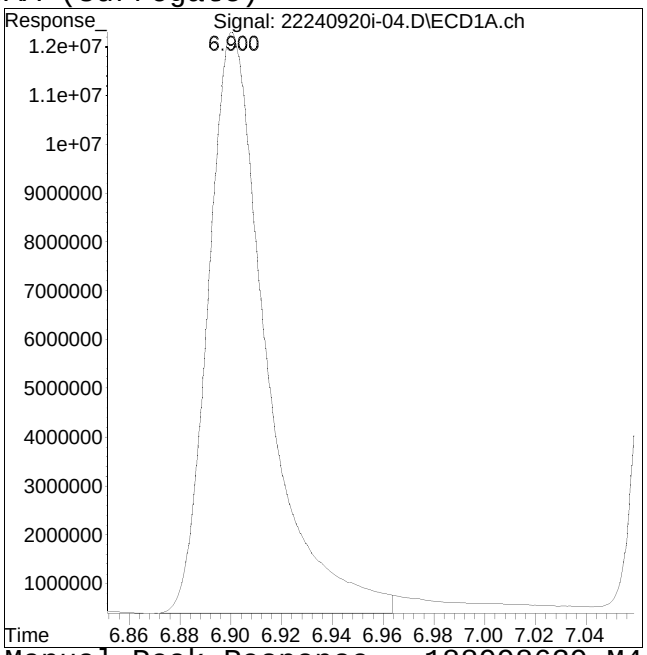
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #3: DCAA (surrogate)



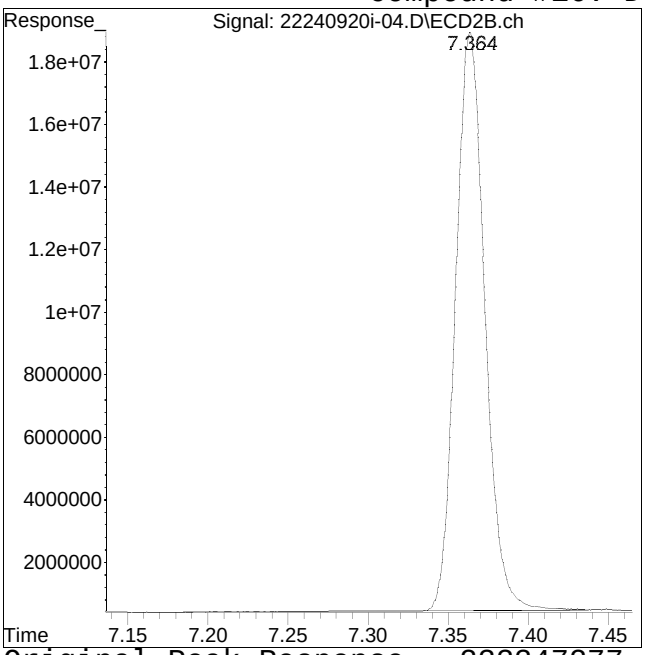


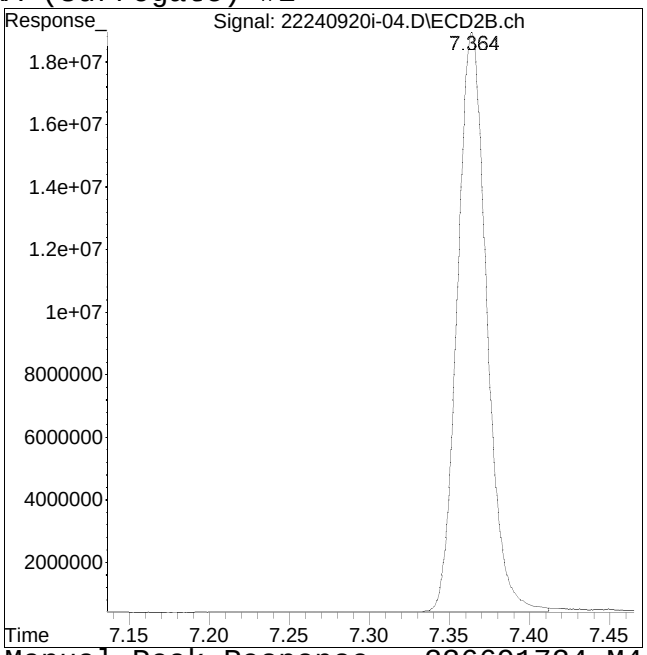
Original Peak Response = 201743043 Manual Peak Response = 188998639 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #16: DCAA (surrogate) #2



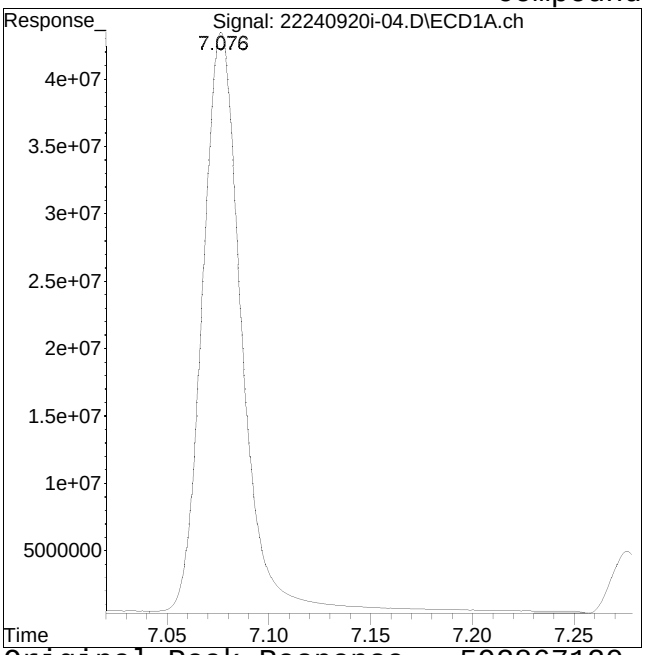


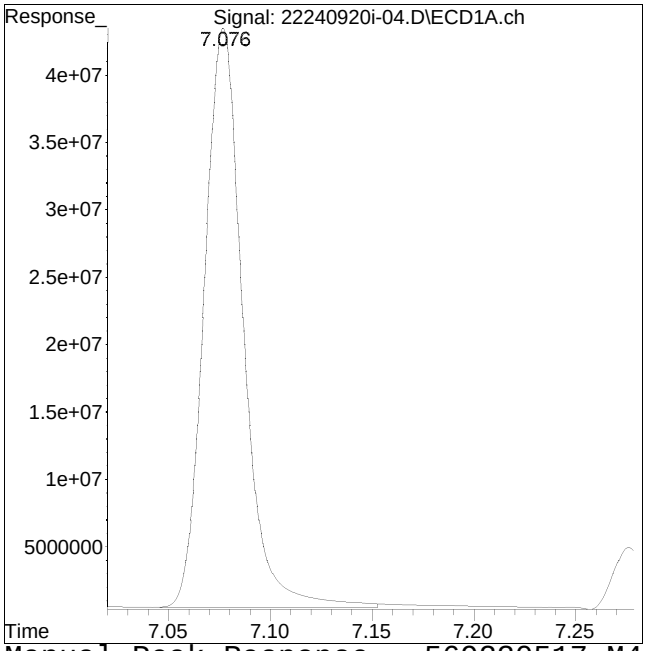
Original Peak Response = 233347277 Manual Peak Response = 236691724 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #4: Dicamba



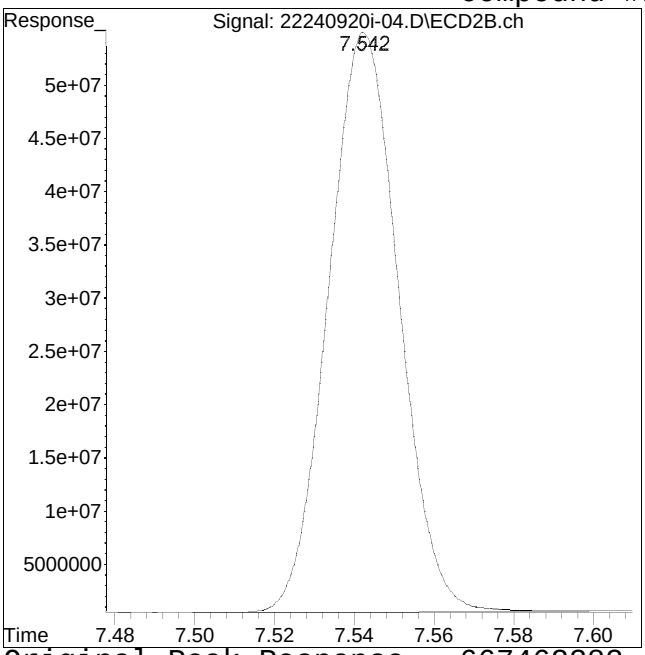


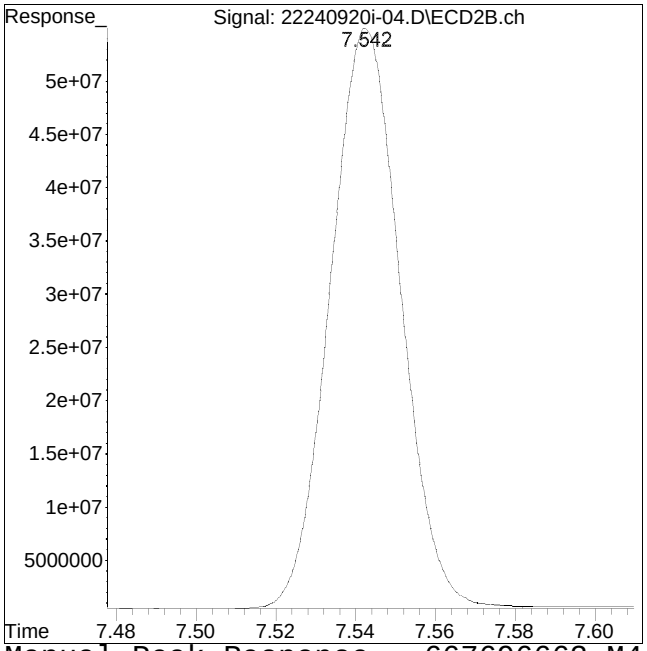
Original Peak Response = 592867120 Manual Peak Response = 569230517 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #17: Dicamba #2



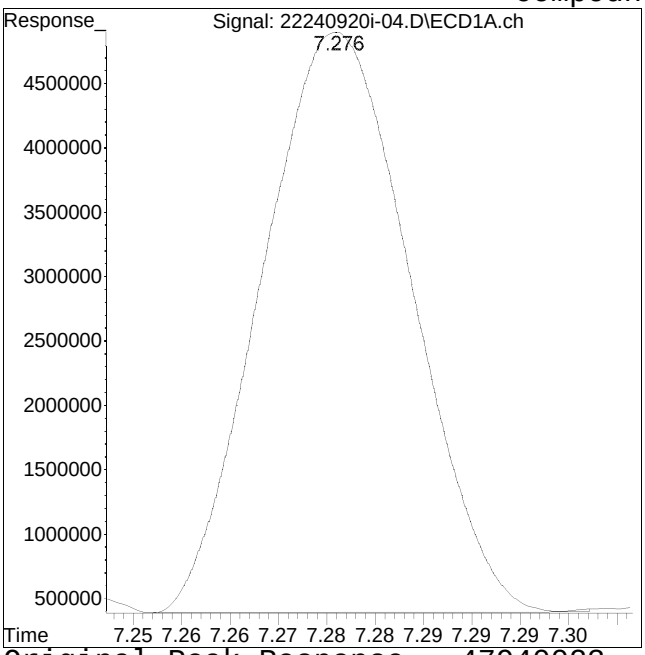


Original Peak Response = 667462383 Manual Peak Response = 667696663 M4
M4 = Poor automated baseline construction.

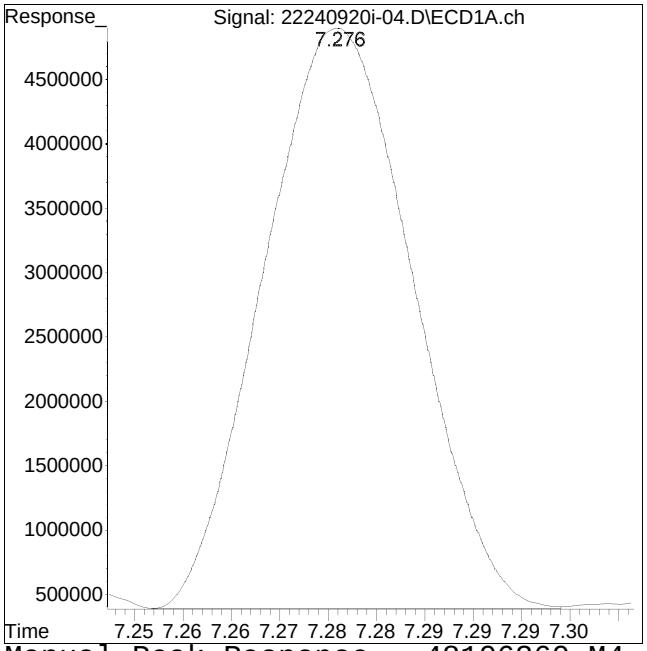
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #5: MCPP



Original Peak Response = 47940023



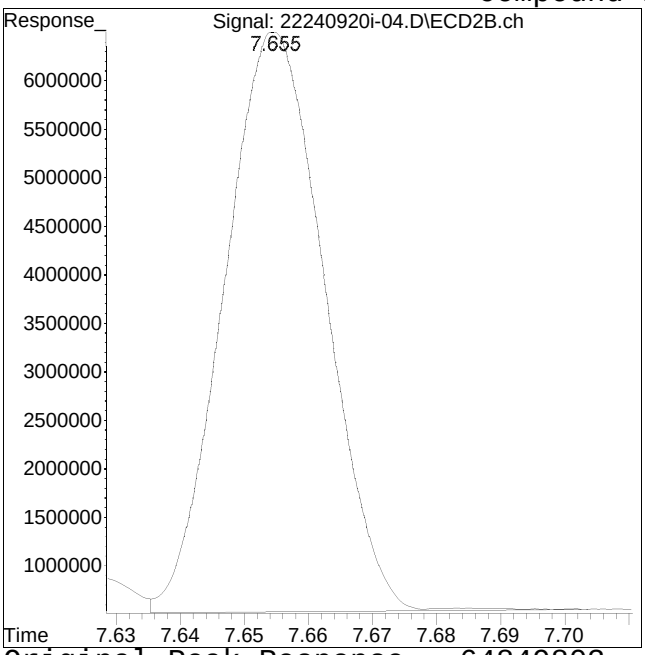
Manual Peak Response = 48106360 M4

M4 = Poor automated baseline construction.

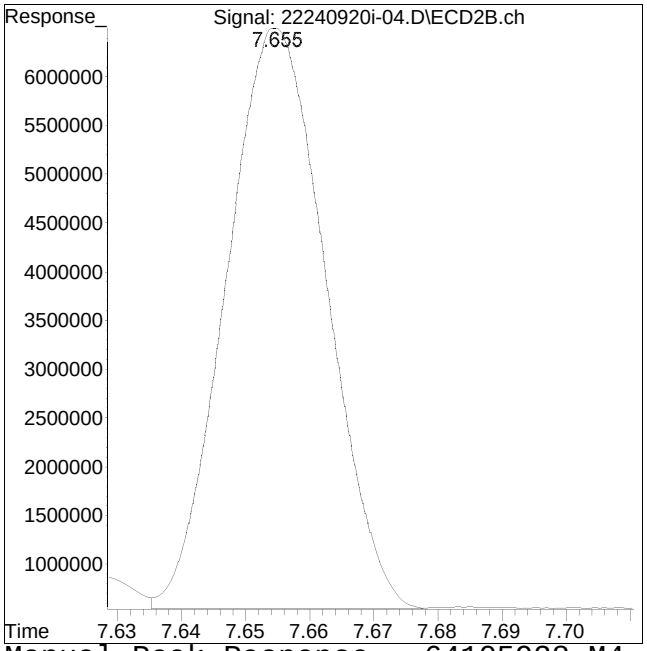
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #18: MCPP #2



Original Peak Response = 64849803



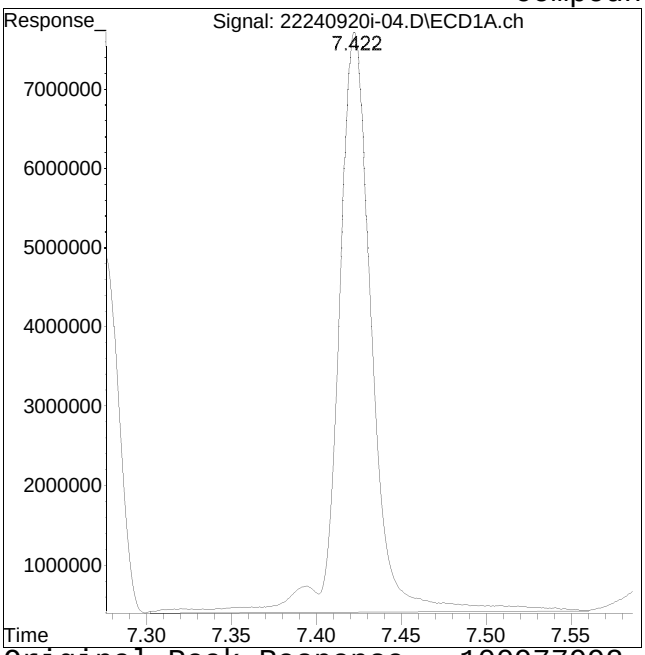
Manual Peak Response = 64105928 M4

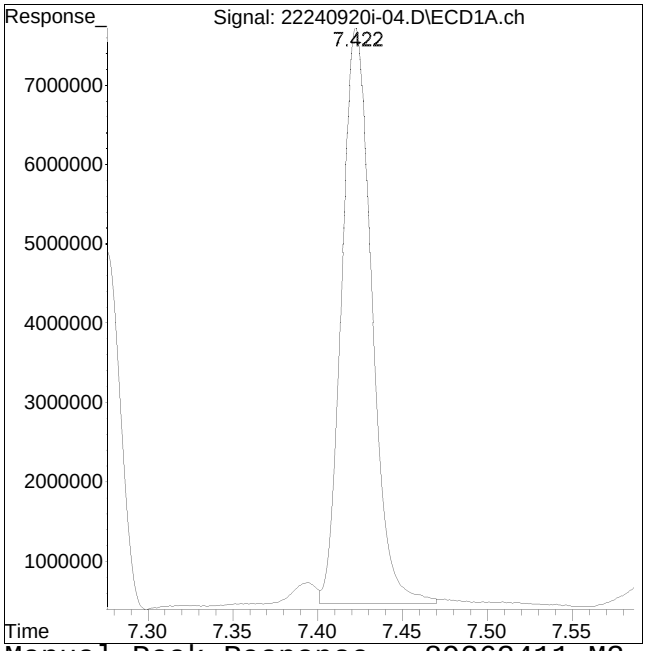
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #6: MCPA



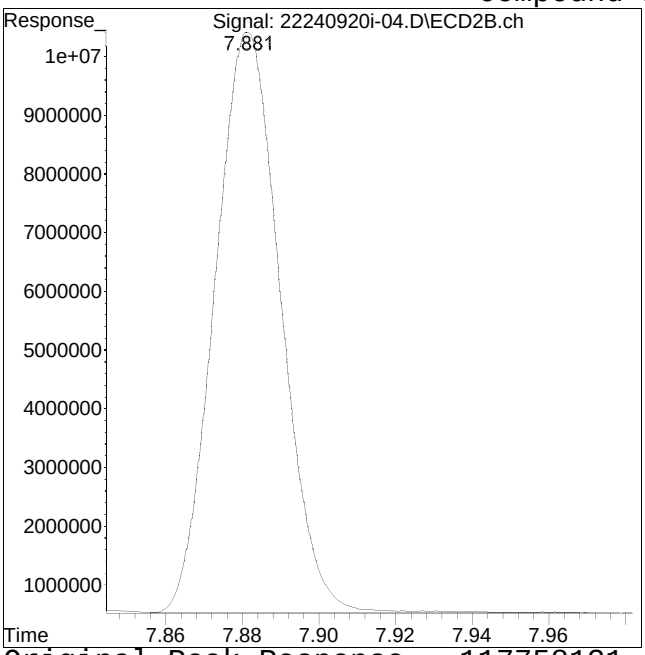


Original Peak Response = 100977992 Manual Peak Response = 89263411 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

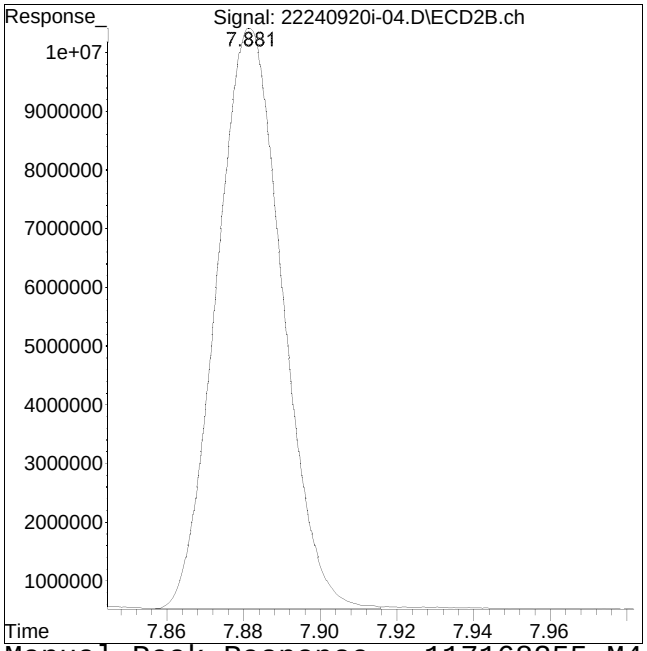
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #19: MCPA #2



Original Peak Response = 117758131



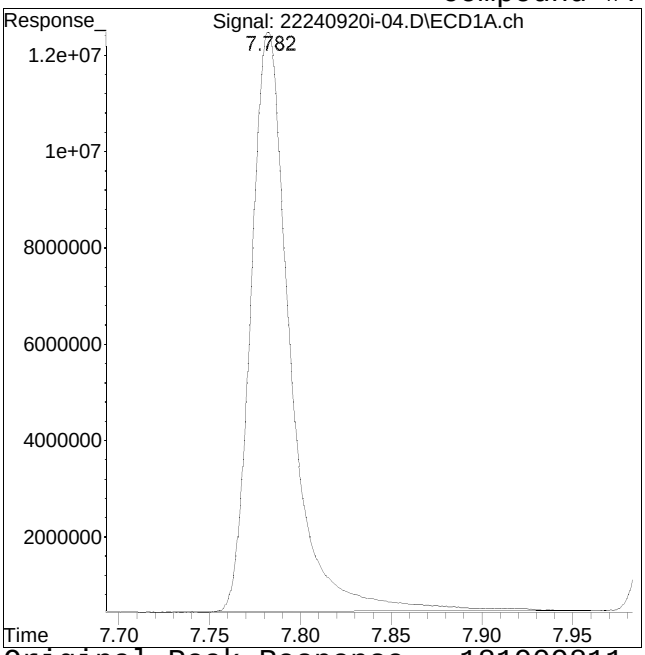
Manual Peak Response = 117168255 M4

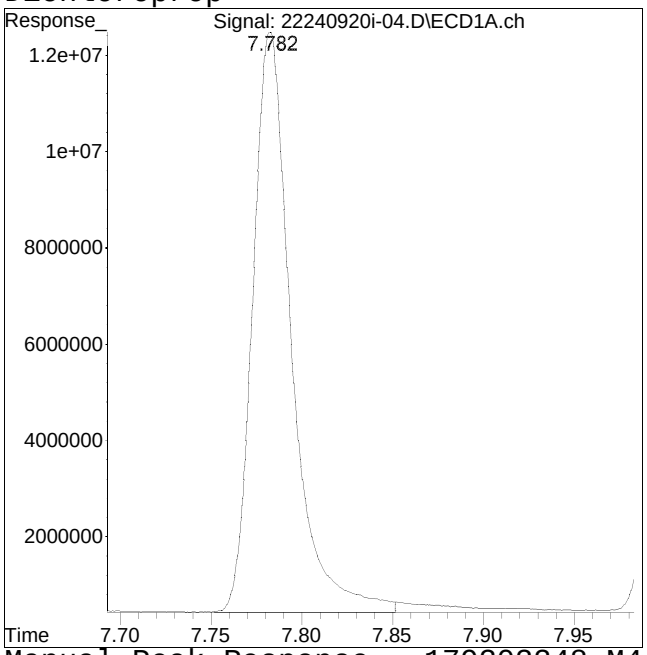
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #7: Dichloroprop



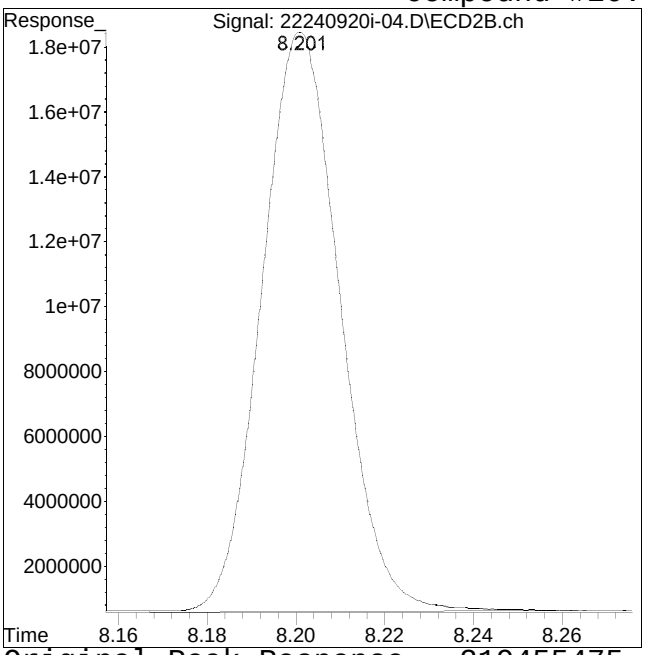


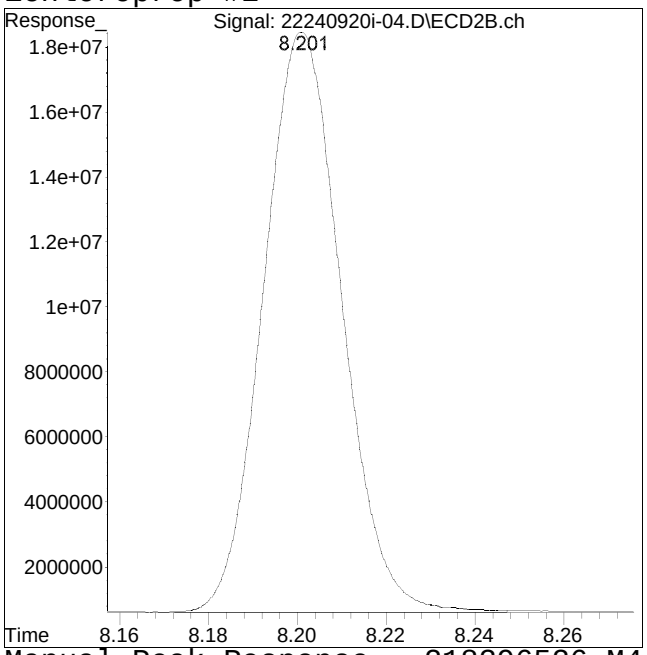
Original Peak Response = 181909811 Manual Peak Response = 179303348 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #20: Dichloroprop #2



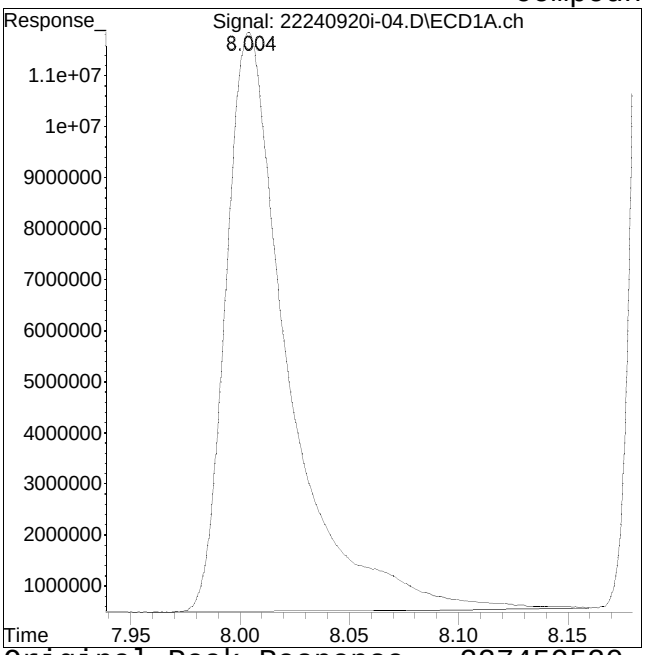


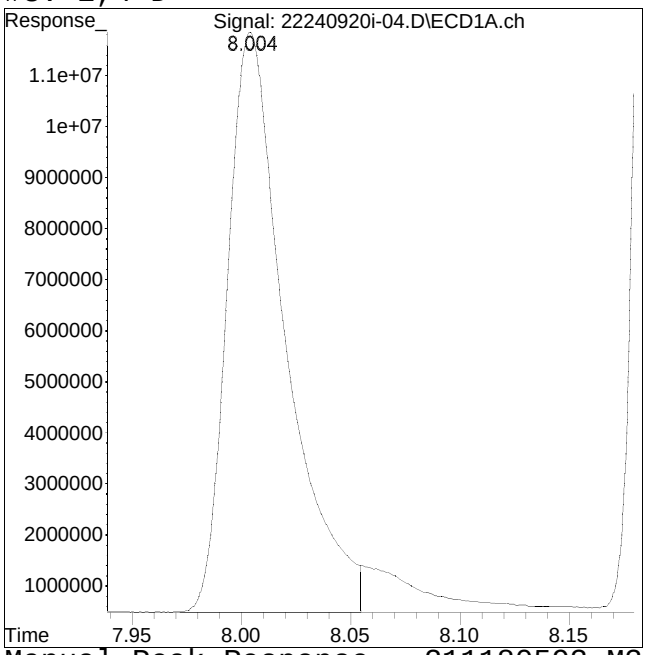
Original Peak Response = 219455475 Manual Peak Response = 218396526 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #8: 2,4-D



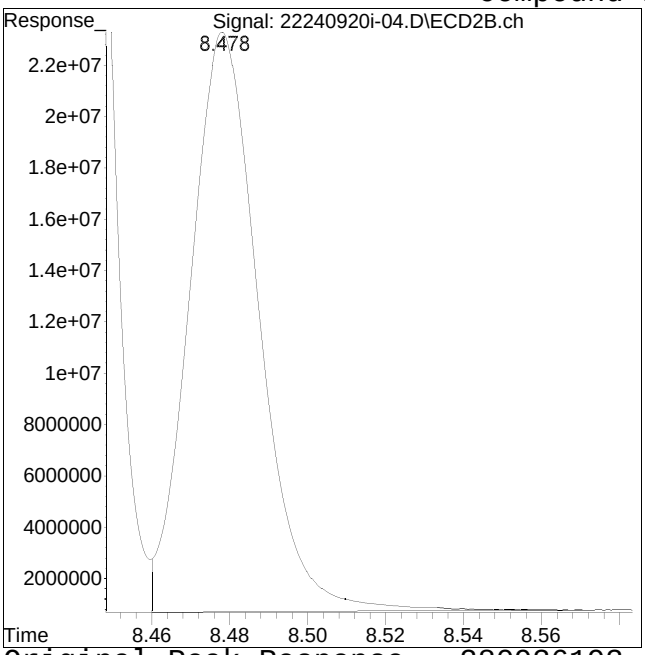


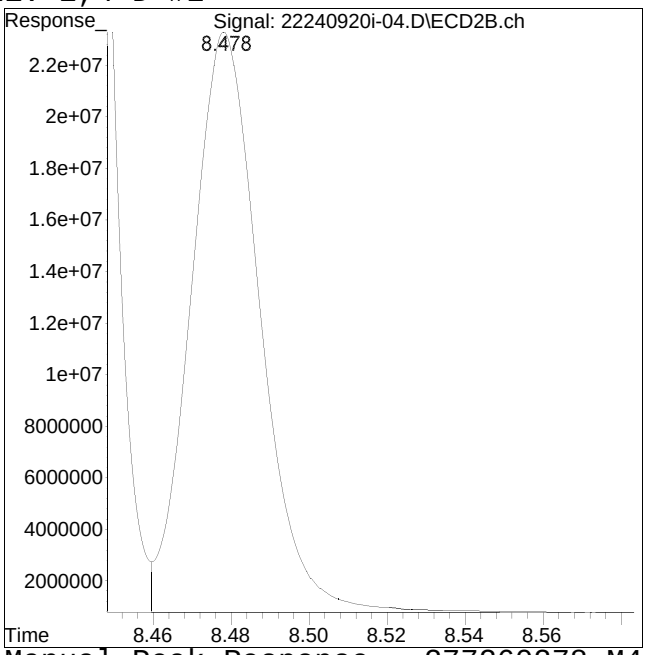
Original Peak Response = 227459520 Manual Peak Response = 211180593 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #21: 2,4-D #2



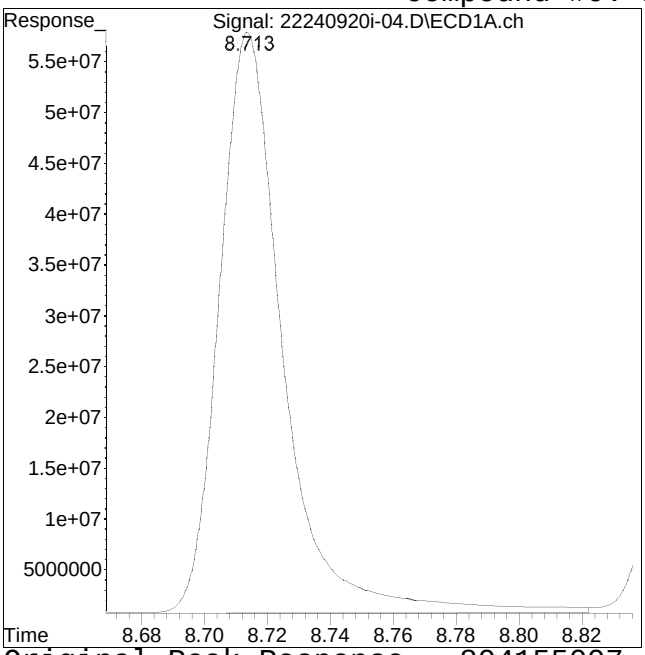


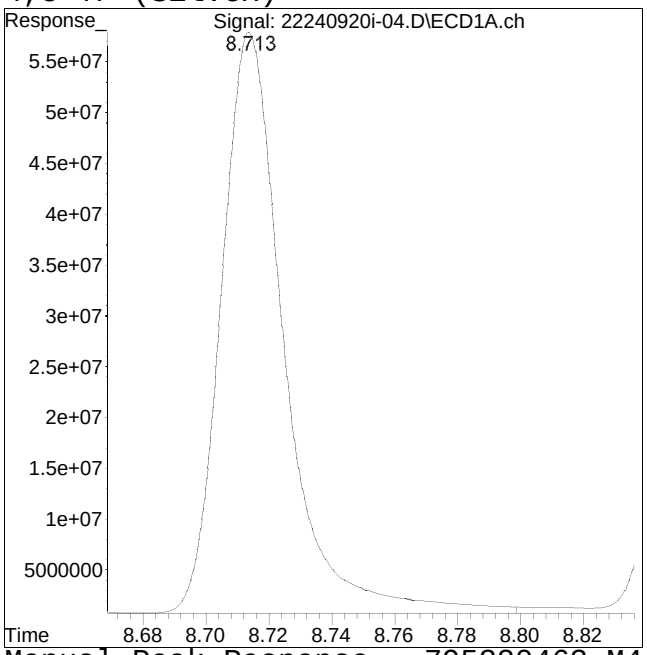
Original Peak Response = 280936193 Manual Peak Response = 277260278 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #9: 2,4,5-TP (Silvex)



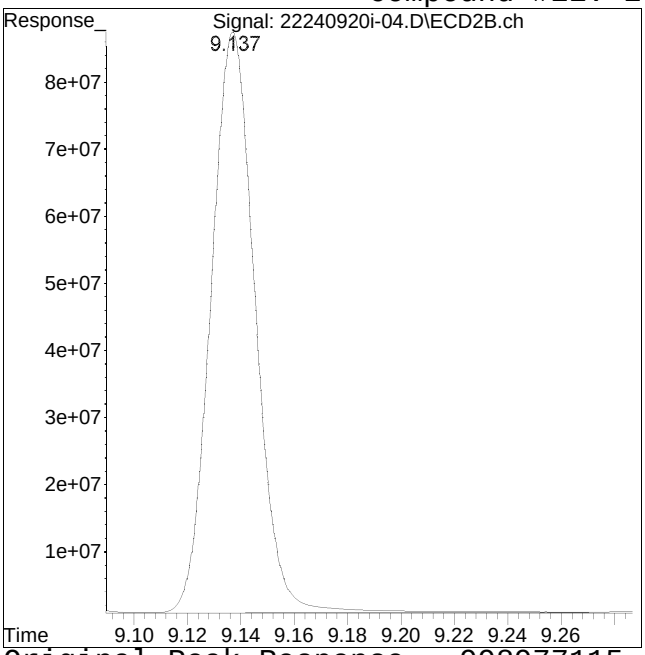


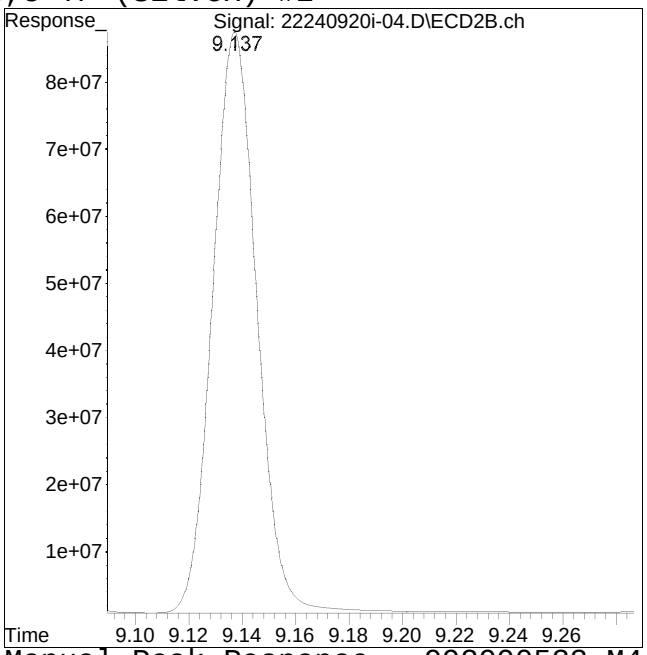
Original Peak Response = 804155007 Manual Peak Response = 795320463 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #22: 2,4,5-TP (Silvex) #2



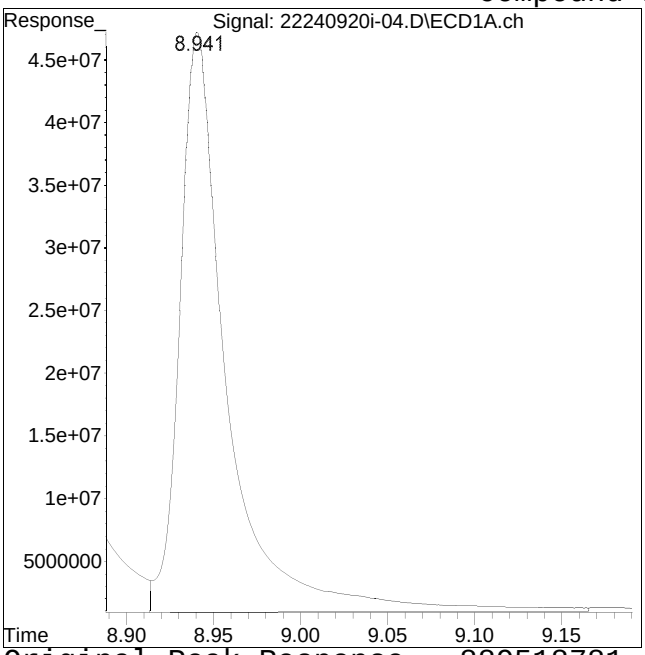


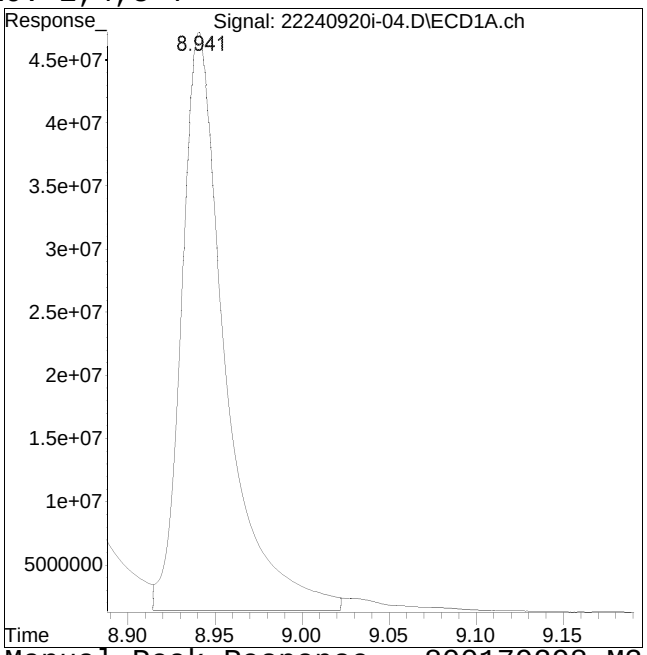
Original Peak Response = 998977115 Manual Peak Response = 992990533 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #10: 2,4,5-T



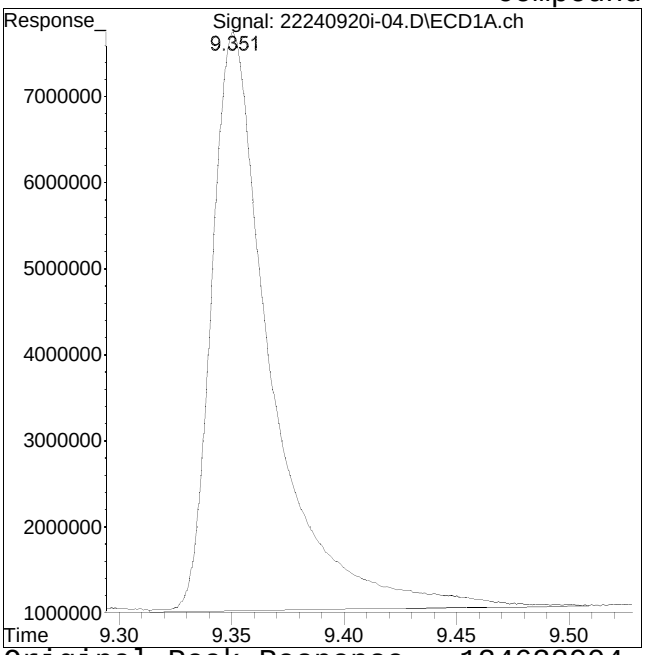


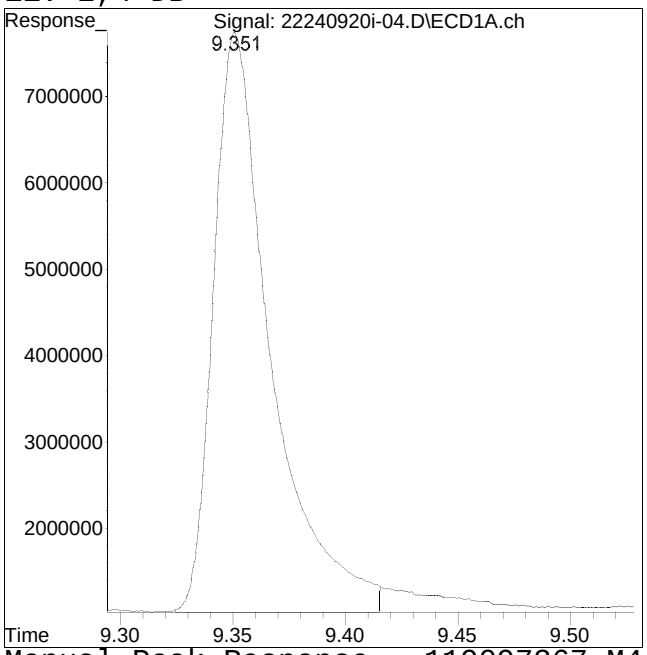
Original Peak Response = 889518781 Manual Peak Response = 800179298 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #11: 2,4-DB



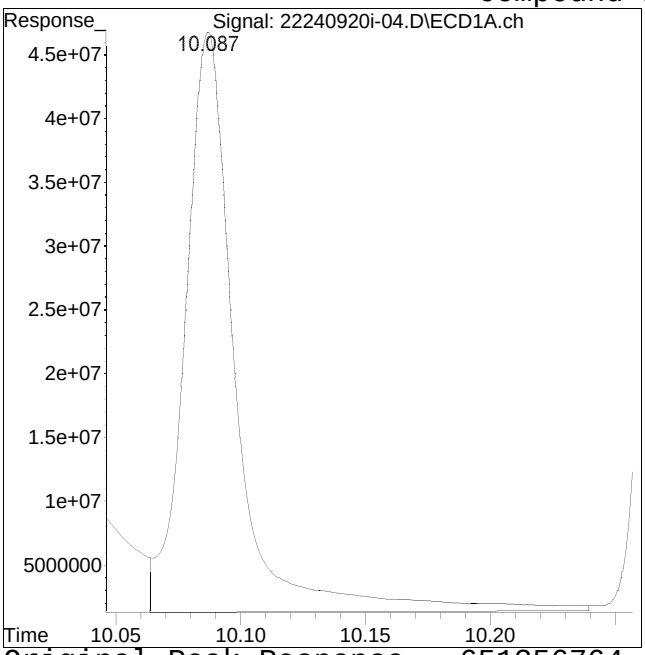


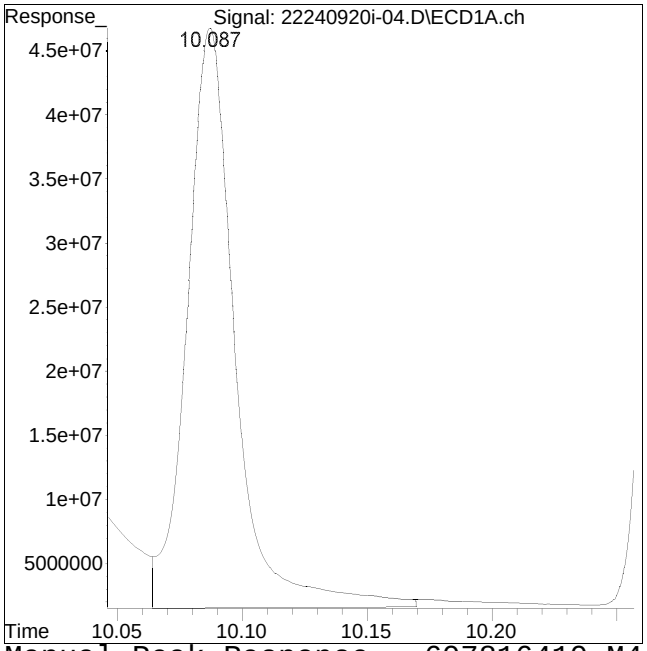
Original Peak Response = 124632904 Manual Peak Response = 119097367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #12: Dinoseb



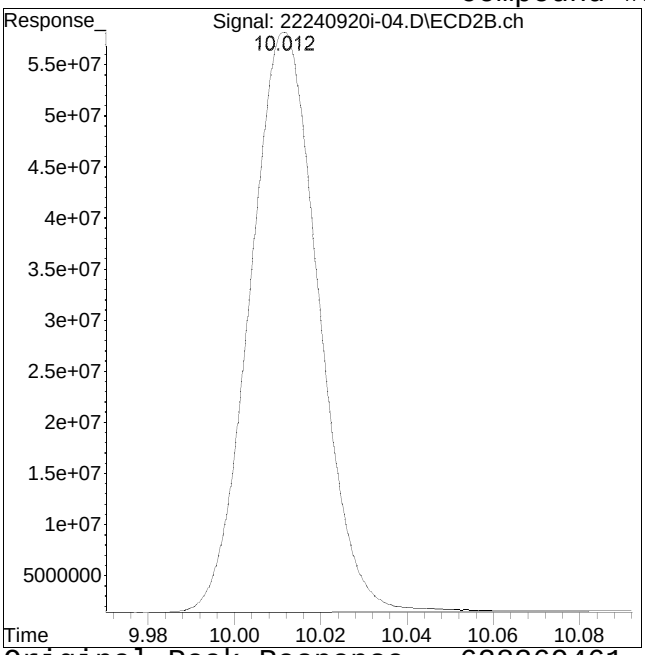


Original Peak Response = 651356764 Manual Peak Response = 607816410 M4
M4 = Poor automated baseline construction.

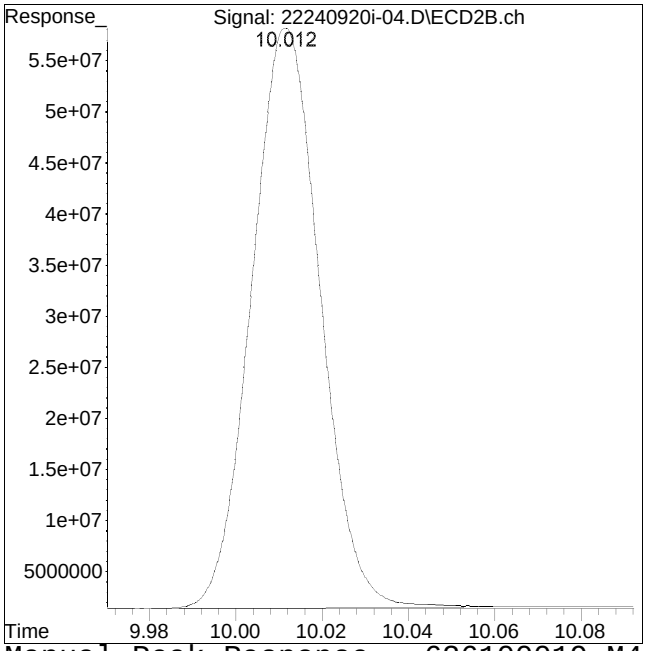
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-04.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:20 pm Instrument : Pest22
Sample : il3herb,42e,,pp 11631 L0.2Quant Date : 9/21/2024 7:00 am

Compound #25: Dinoseb #2



Original Peak Response = 628369461



Manual Peak Response = 626100019 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:38 pm
Operator : pest22:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:12:32 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.437	8.436	1196.7E6	1494.9E6	0.250M3	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.897	7.363	405.3E6	490.2E6	0.446M4	0.441M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	89.20%	88.20%
		Target Compounds						
2)	t	Dalapon	2.324	2.319	531.7E6	551.2E6	0.446M4	0.430M3
4)	t	Dicamba	7.076	7.543	1218.9E6	1398.0E6	0.445M4	0.443M4
5)	t	MCPP	7.276	7.655	114.8E6	150.8E6	47.079M4	47.069M4
6)	t	MCPA	7.423	7.882	189.8E6	247.2E6	43.902M4	44.035M4
7)	t	Dichloroprop	7.780	8.201	365.4E6	449.3E6	0.434M4	0.439M4
8)	t	2,4-D	7.997	8.477	453.2E6	573.5E6	0.446M4	0.440M4
9)	t	2,4,5-TP (Si	8.712	9.137	1679.8E6	2054.5E6	0.447M4	0.445M4
10)	t	2,4,5-T	8.936	9.427	1699.2E6	2025.0E6	0.448M3	0.448
11)	t	2,4-DB	9.345	9.789	253.8E6	336.5E6	0.454M3	0.453M4
12)	t	Dinoseb	10.086	10.011	1212.2E6	1293.7E6	0.461M4	0.445M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:38 pm
Operator : pest22:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:12:32 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

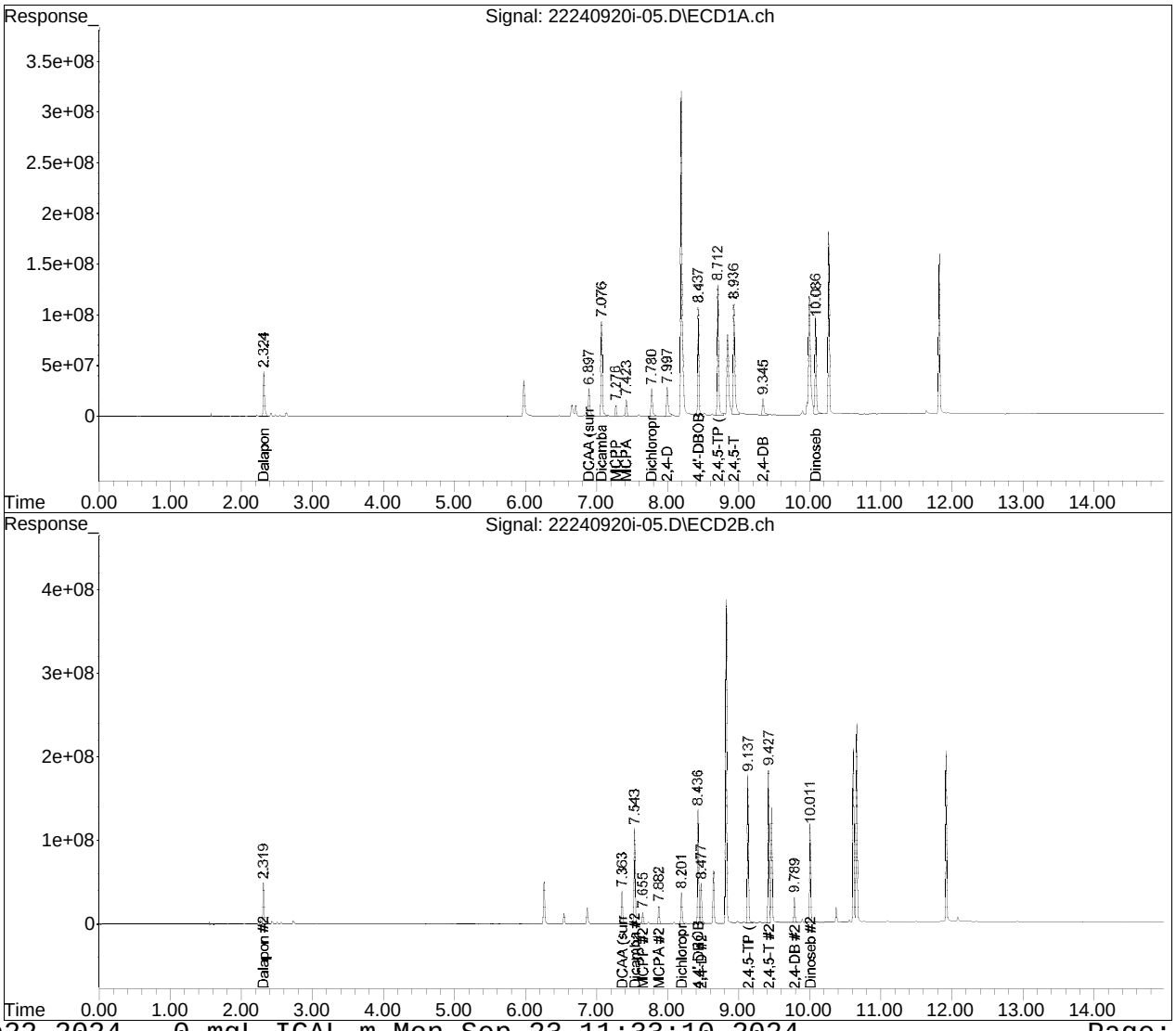
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:38 pm
Operator : pest22:akm
Sample : il4herb,42e,,pp 11630 L0.5/50
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:12:32 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:12:23 2024
Response via : Initial Calibration
Integrator: ChemStation

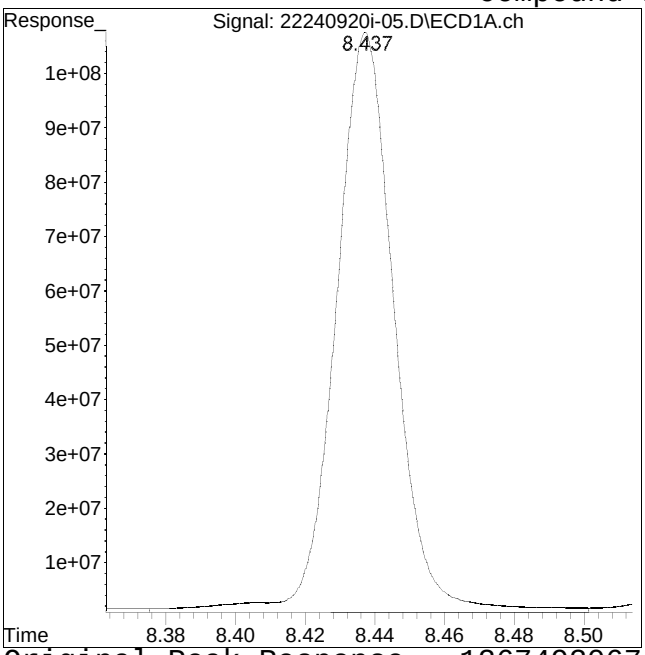
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

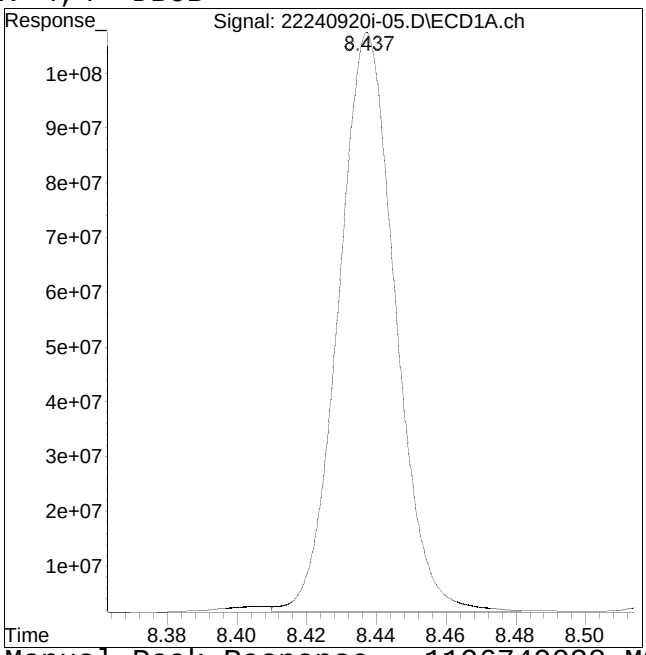


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #1: 4,4'-DBOB



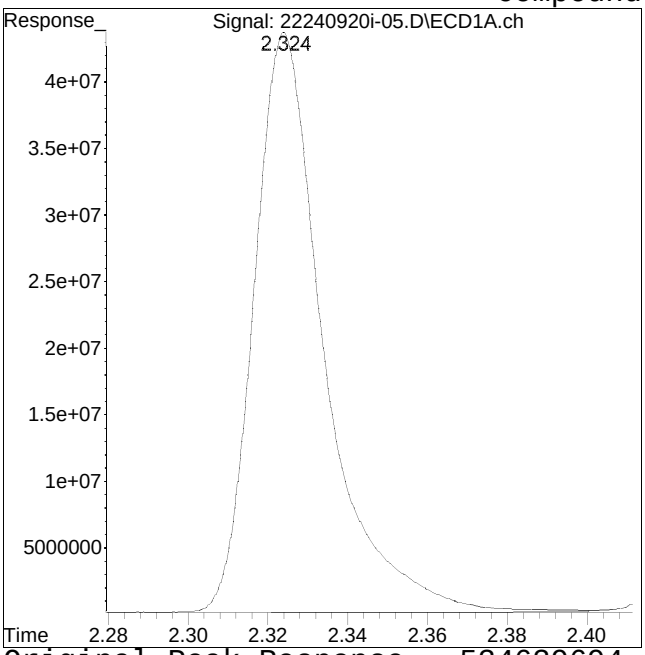


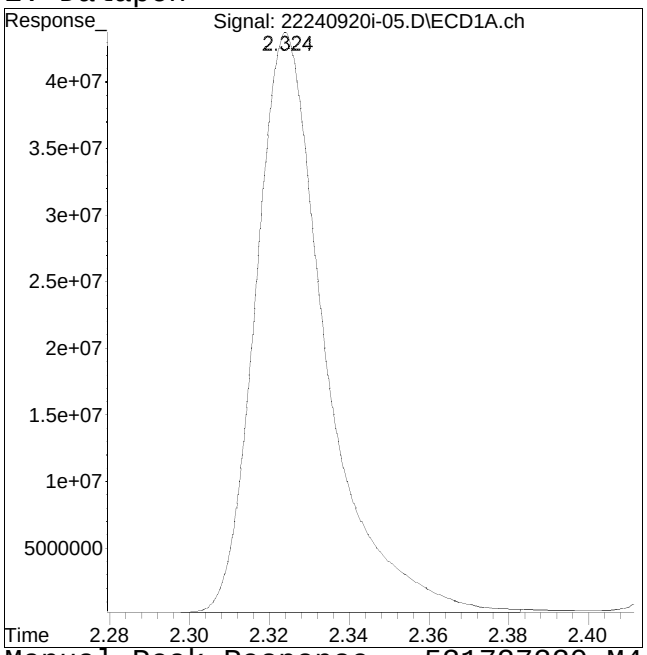
Original Peak Response = 1267493067 Manual Peak Response = 1196749038 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #2: Dalapon



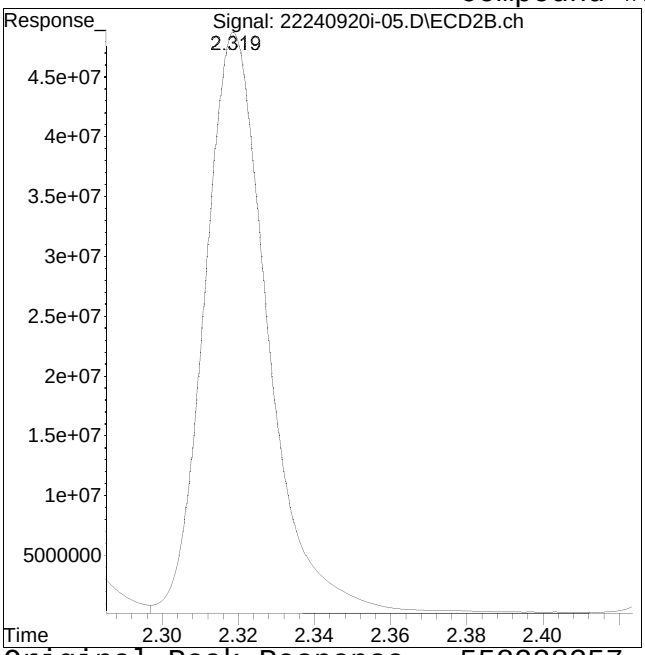


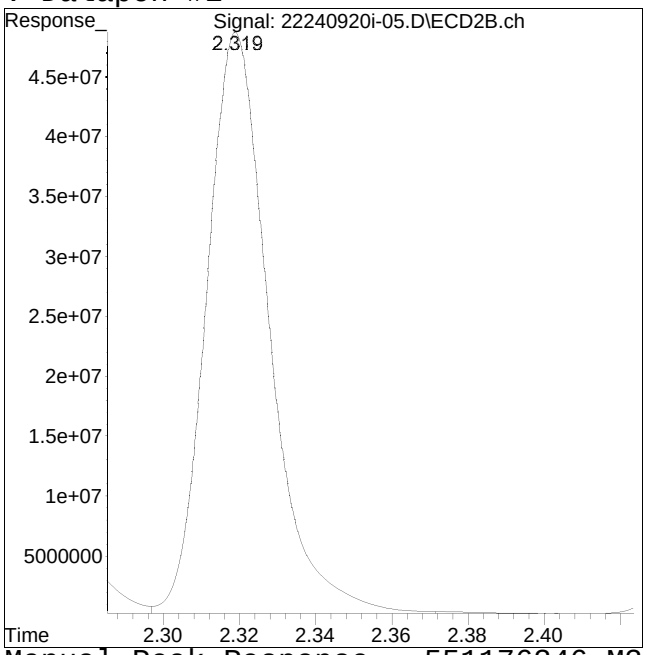
Original Peak Response = 534639694 Manual Peak Response = 531727320 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #15: Dalapon #2



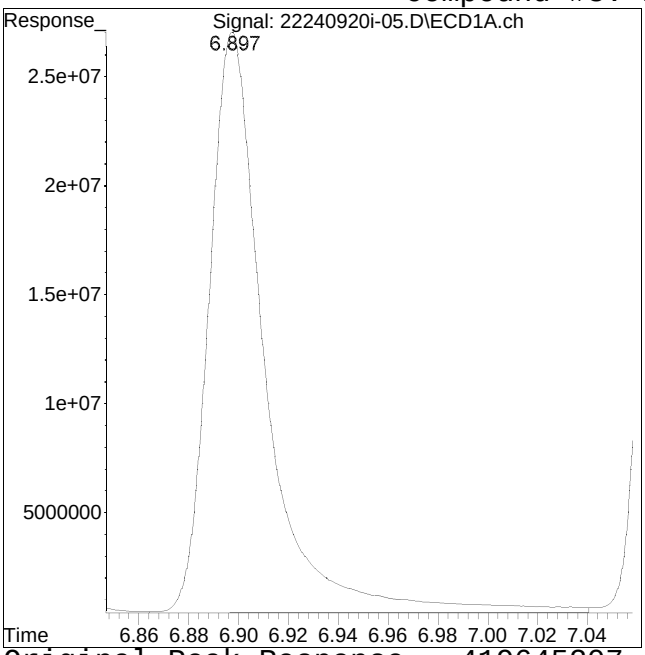


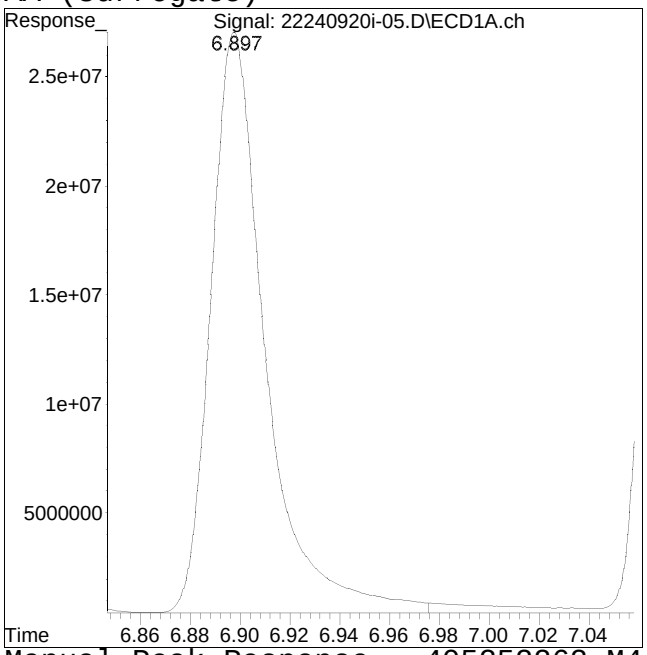
Original Peak Response = 558228357 Manual Peak Response = 551176346 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #3: DCAA (surrogate)



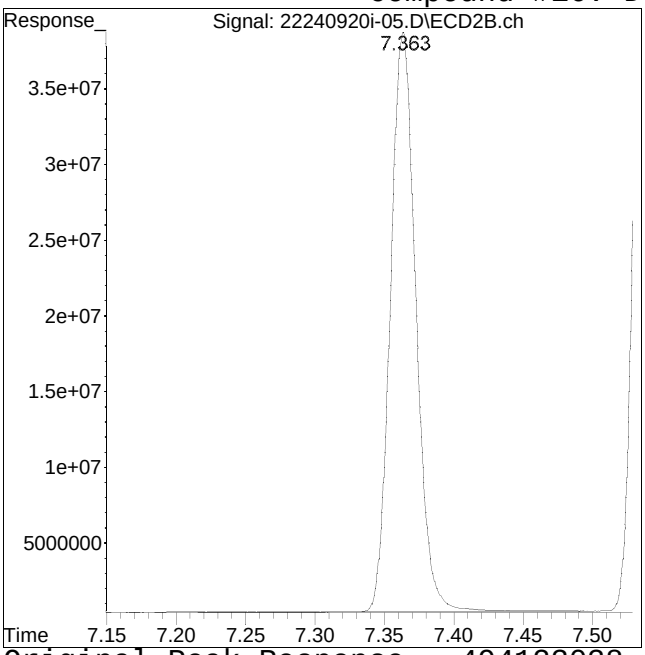


Original Peak Response = 419645207 Manual Peak Response = 405252262 M4
M4 = Poor automated baseline construction.

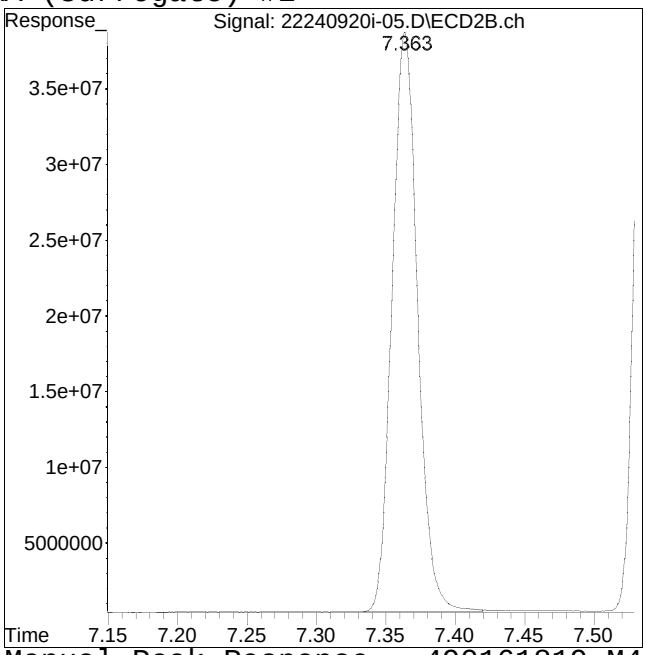
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 494123038



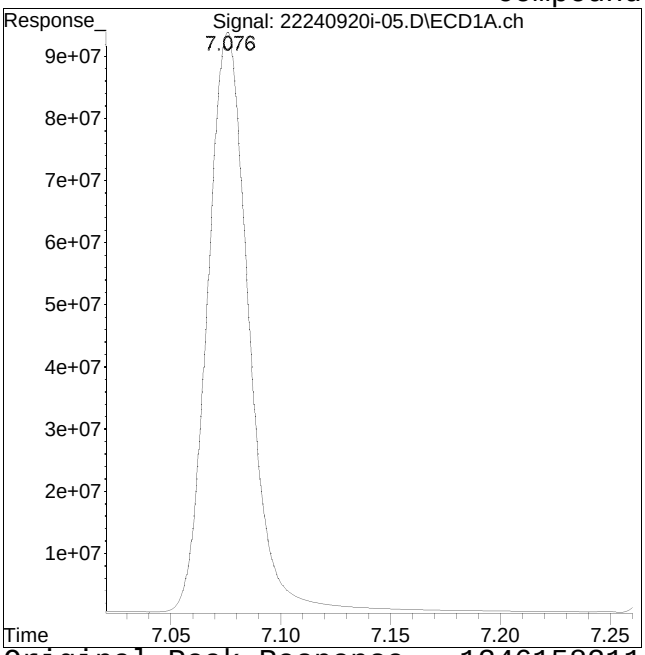
Manual Peak Response = 490161819 M4

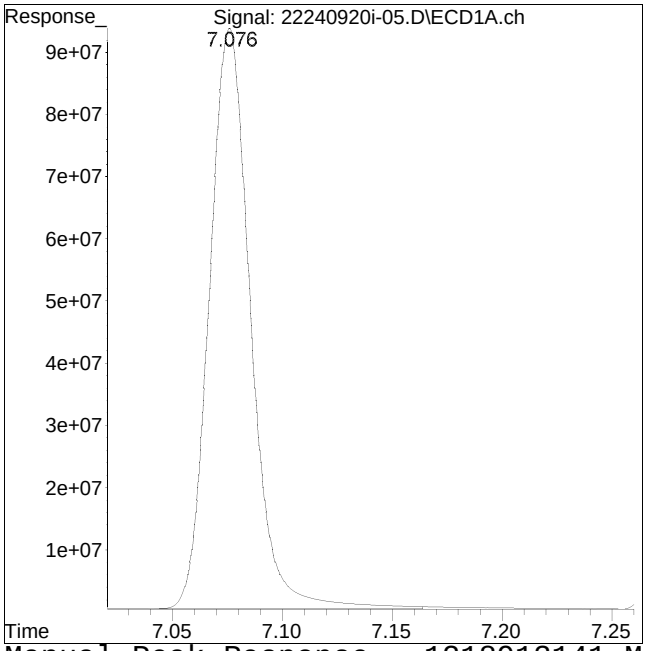
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #4: Dicamba



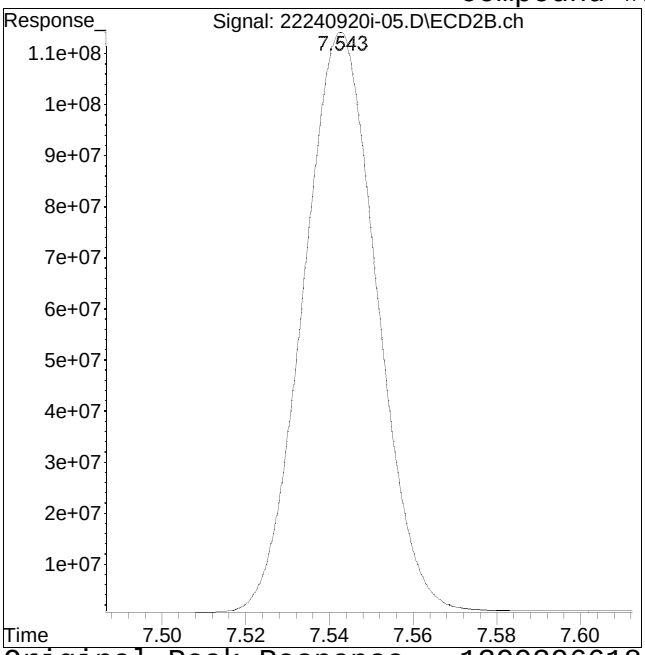


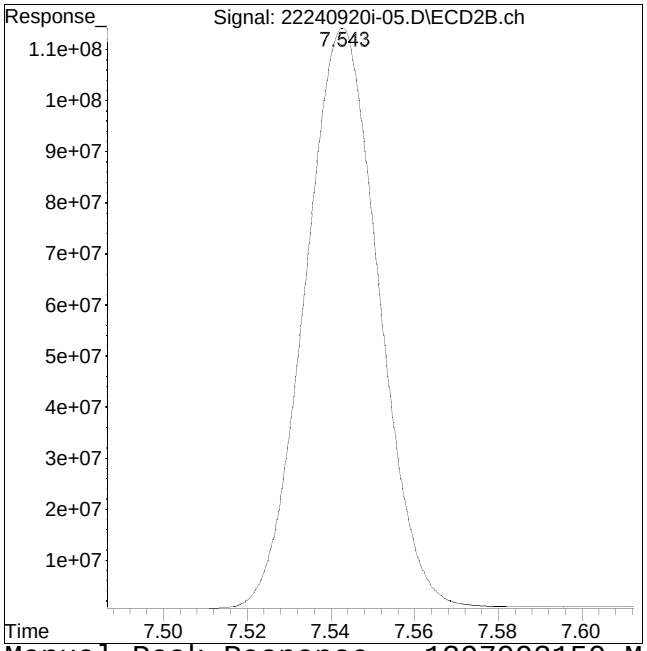
Original Peak Response = 1246158211 Manual Peak Response = 1218913141 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #17: Dicamba #2



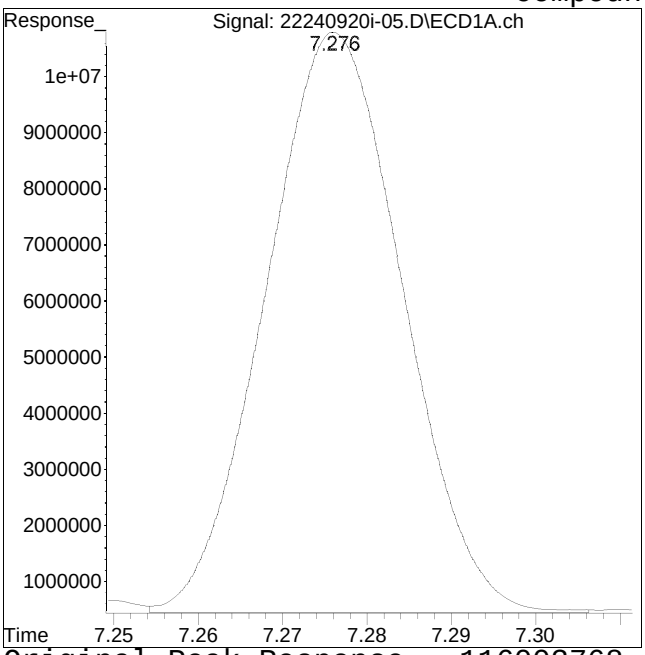


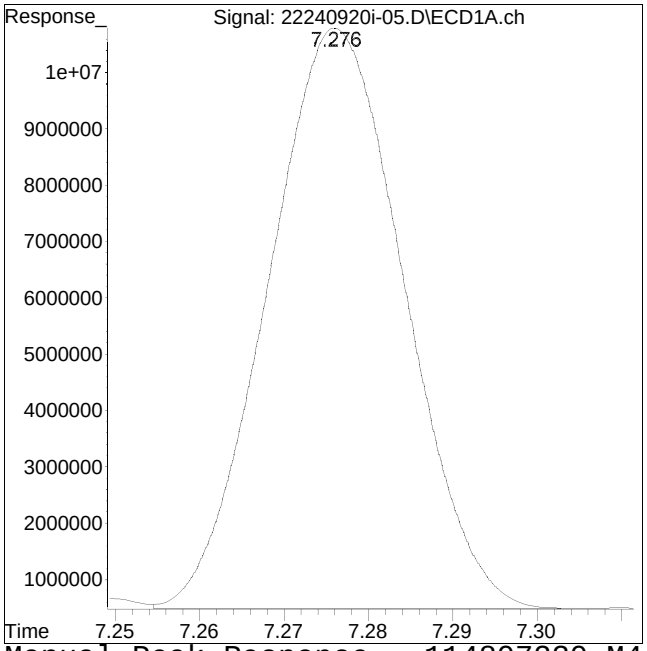
Original Peak Response = 1399396618 Manual Peak Response = 1397993150 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #5: MCPP



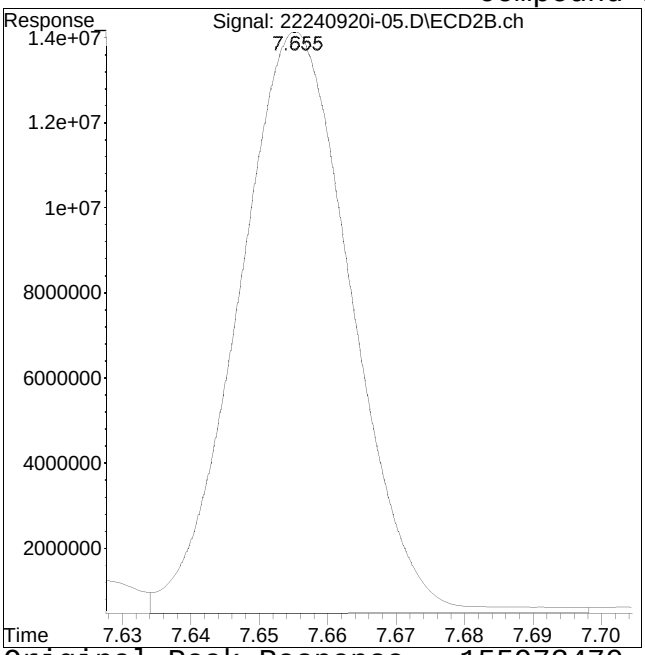


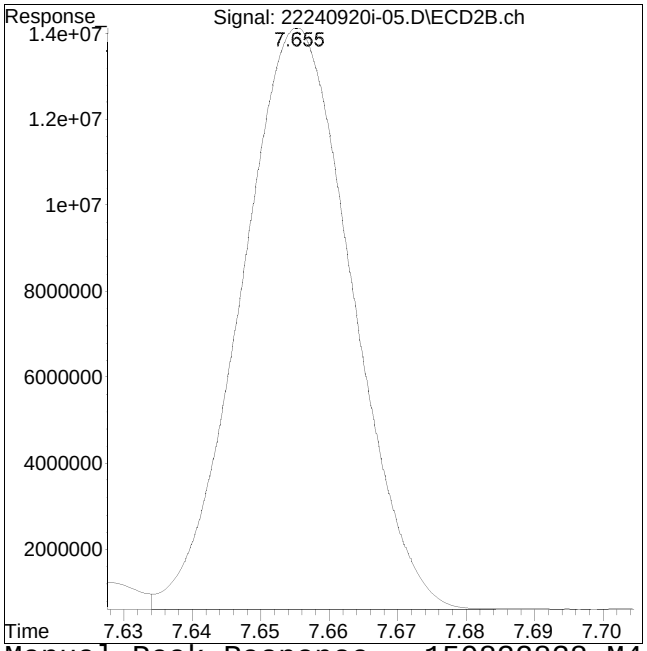
Original Peak Response = 116003768 Manual Peak Response = 114807230 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #18: MCPP #2



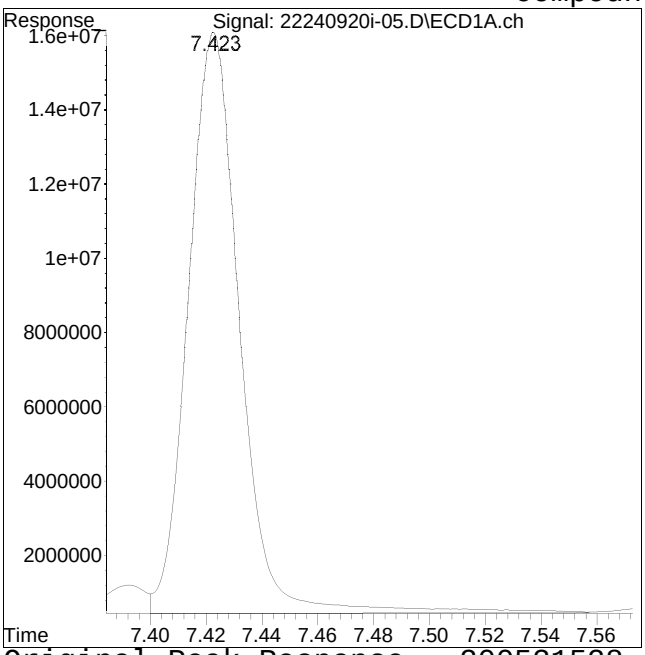


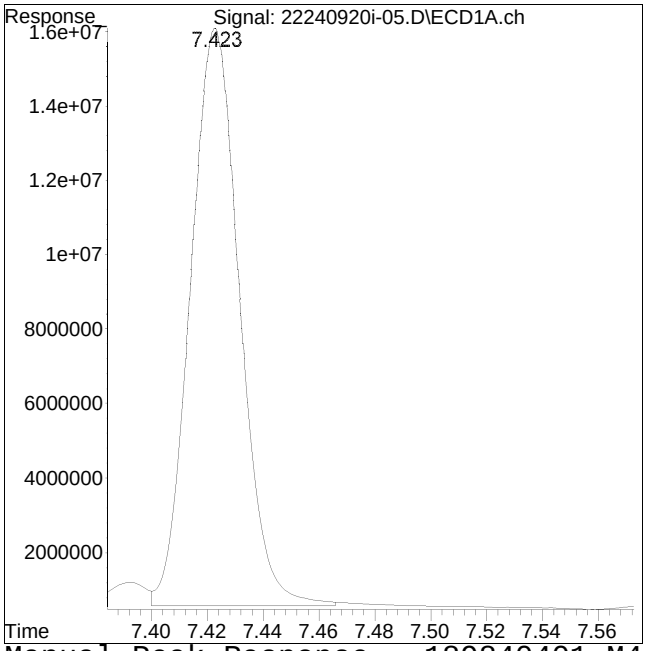
Original Peak Response = 155973470 Manual Peak Response = 150832838 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #6: MCPA



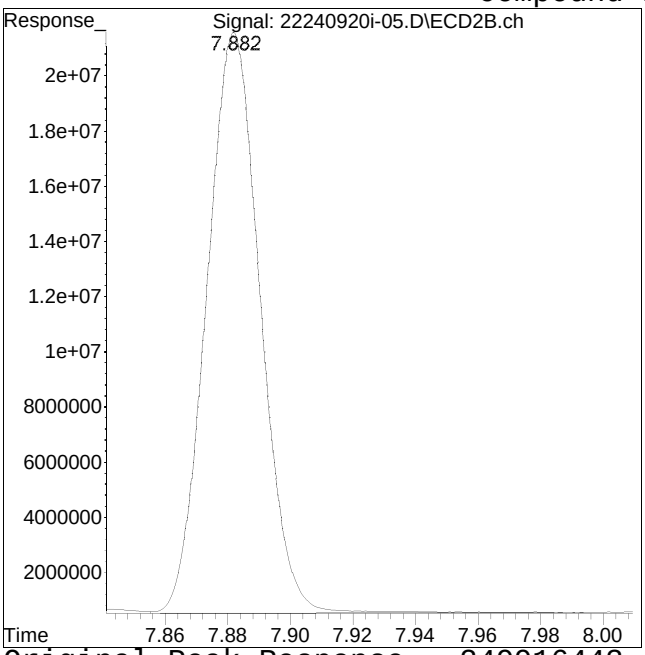


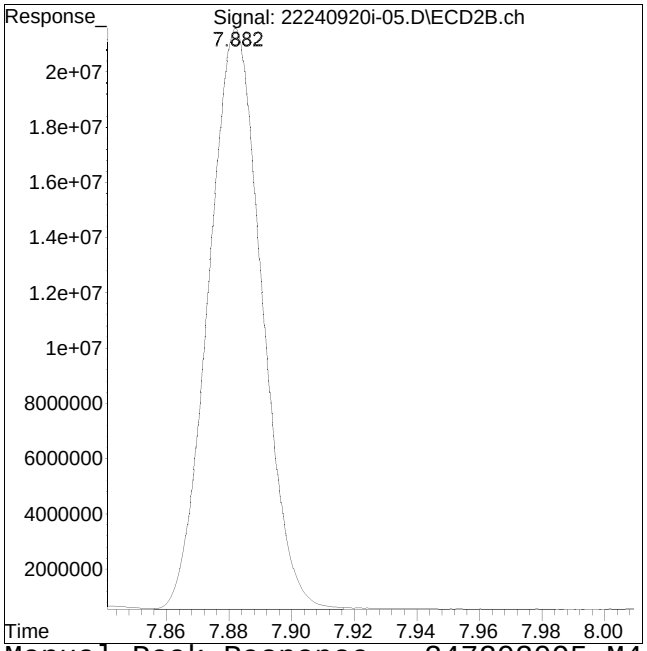
Original Peak Response = 200531528 Manual Peak Response = 189840401 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #19: MCPA #2



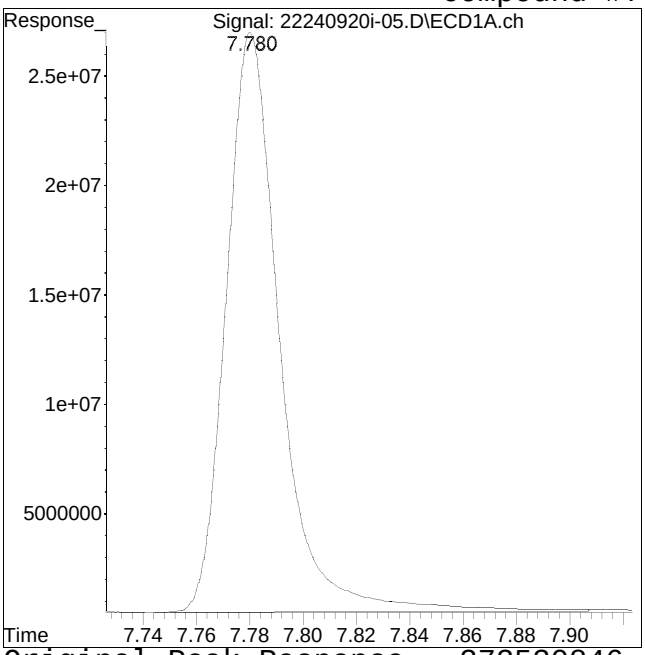


Original Peak Response = 249916443 Manual Peak Response = 247203095 M4
M4 = Poor automated baseline construction.

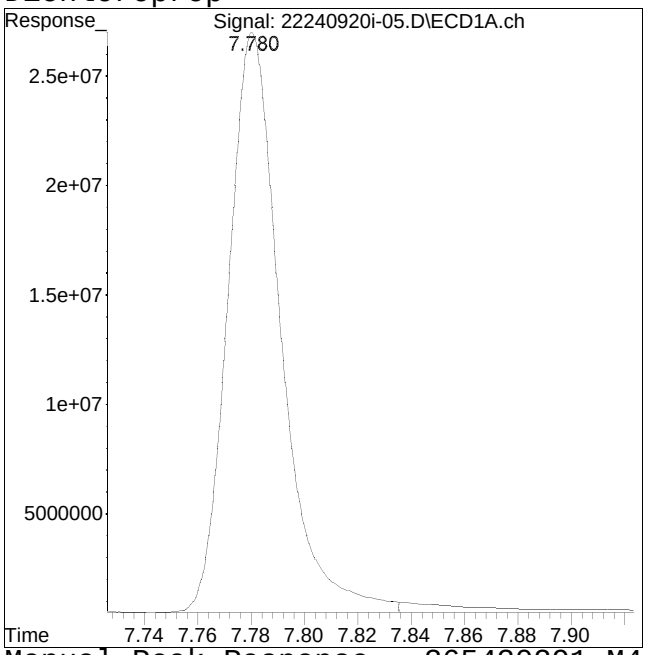
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #7: Dichloroprop



Original Peak Response = 373530846



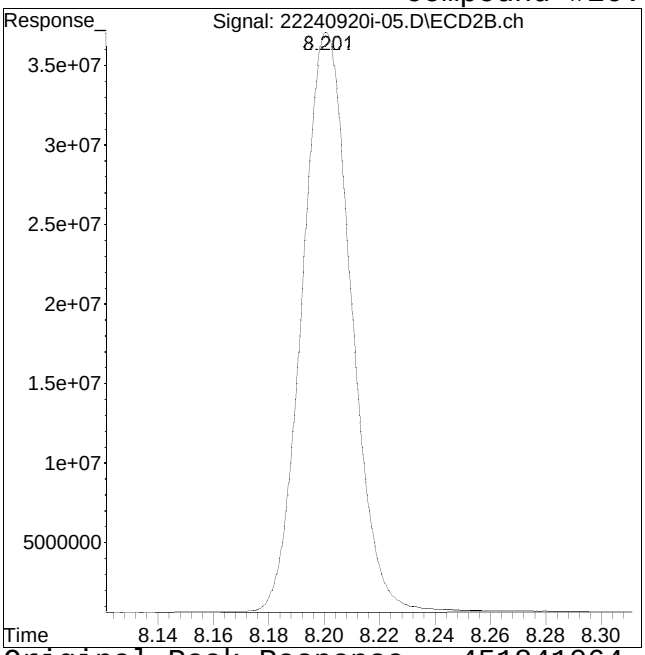
Manual Peak Response = 365430291 M4

M4 = Poor automated baseline construction.

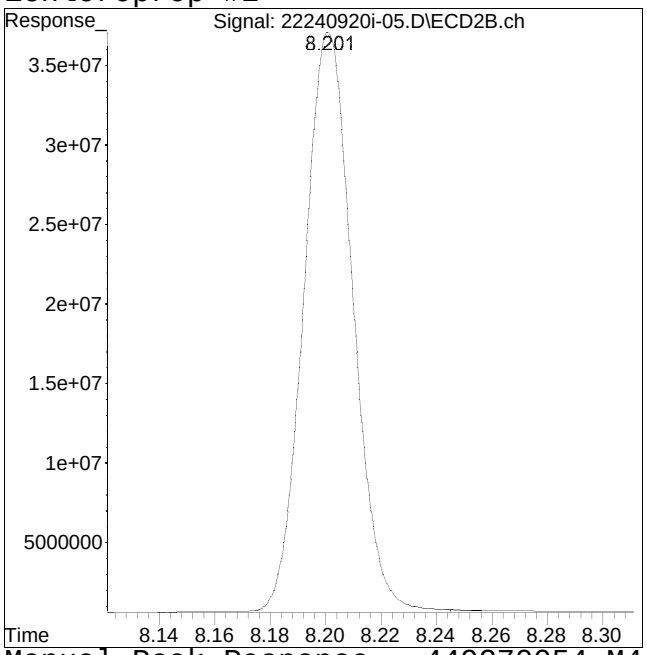
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #20: Dichloroprop #2



Original Peak Response = 451841064

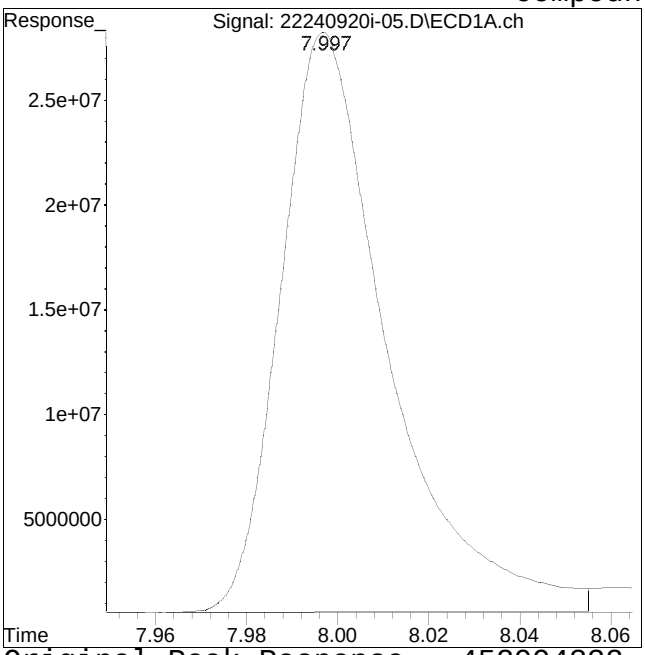


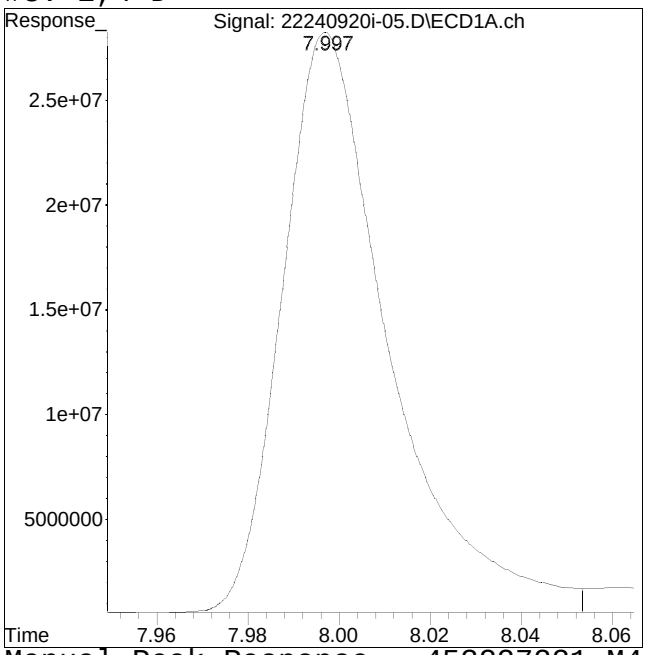
Manual Peak Response = 449270054 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #8: 2,4-D



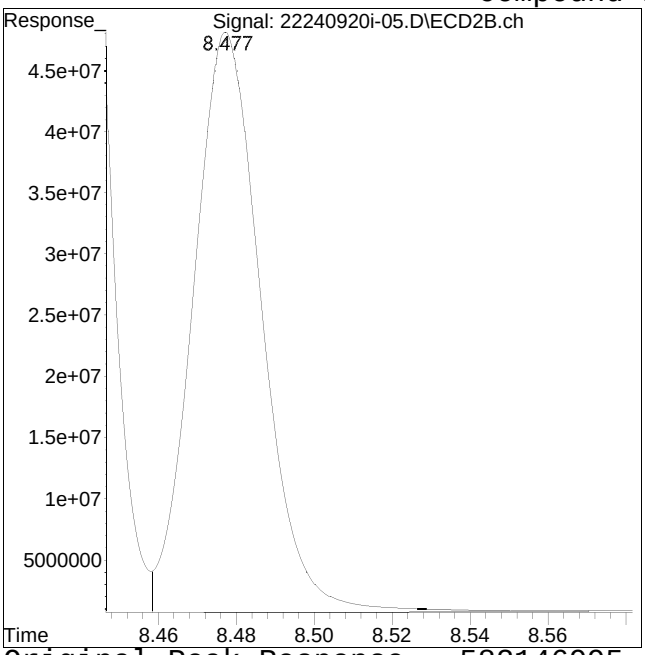


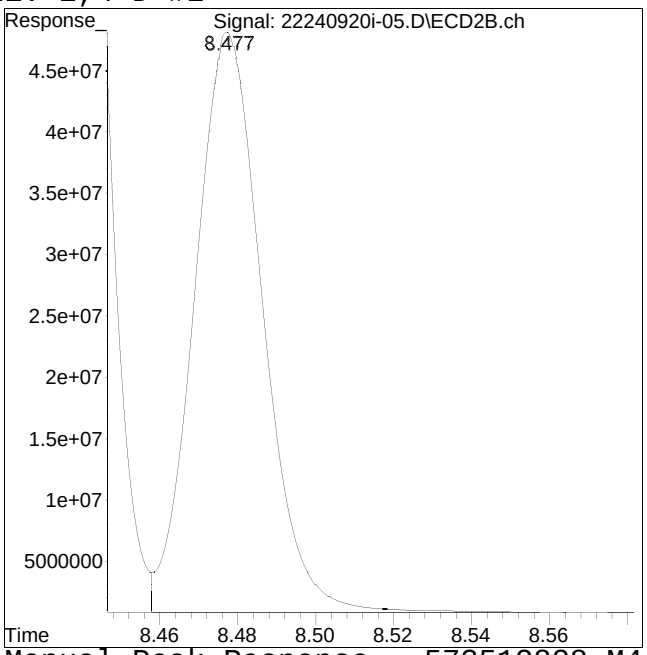
Original Peak Response = 452994332 Manual Peak Response = 453227221 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #21: 2,4-D #2



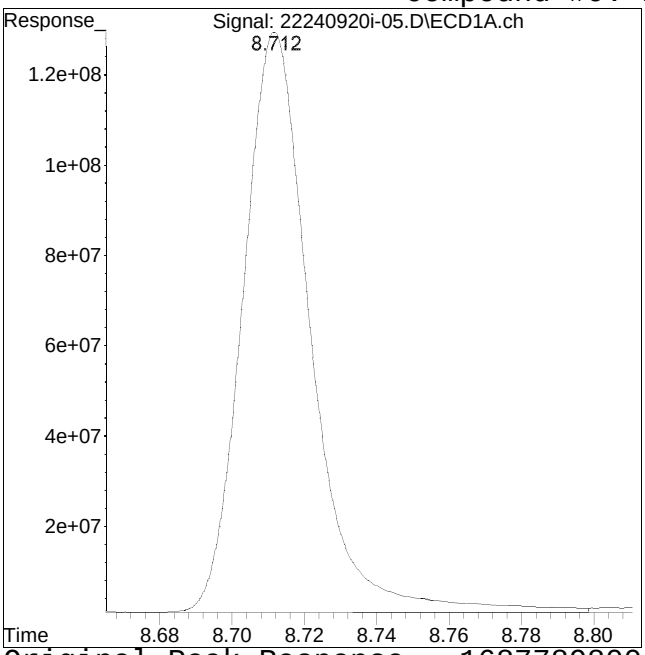


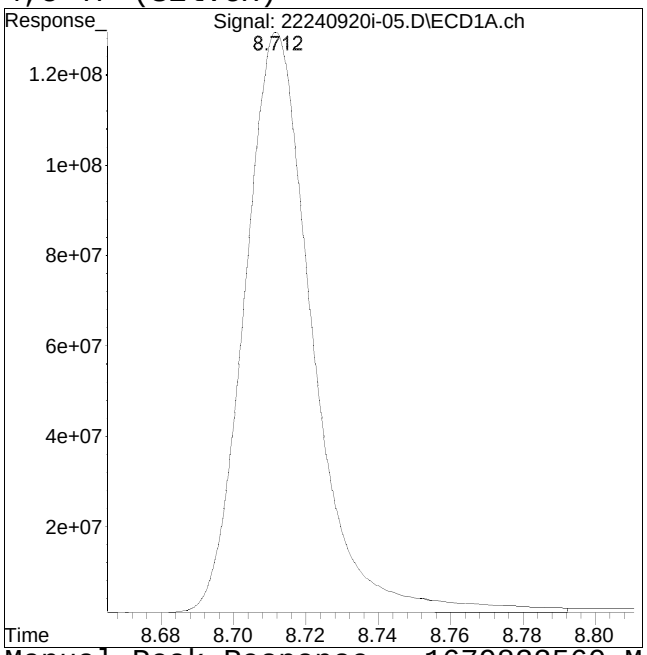
Original Peak Response = 582146995 Manual Peak Response = 573512828 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #9: 2,4,5-TP (Silvex)



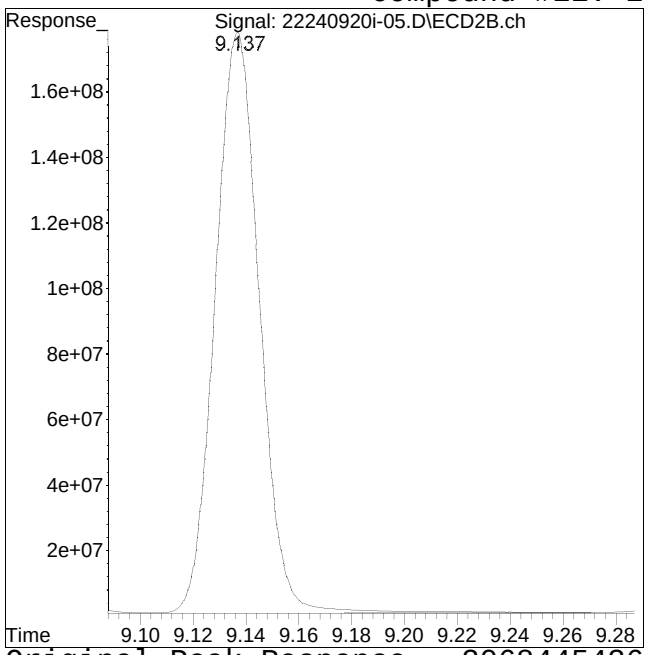


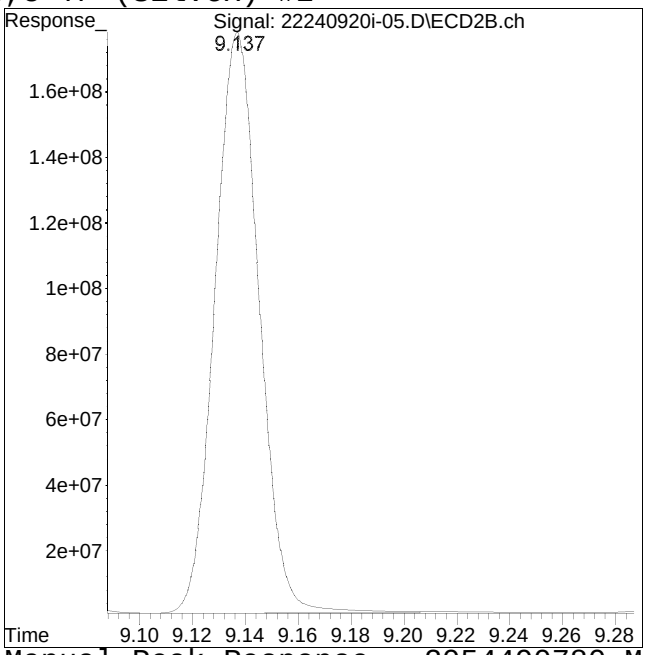
Original Peak Response = 1687789800 Manual Peak Response = 1679833560 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #22: 2,4,5-TP (Silvex) #2



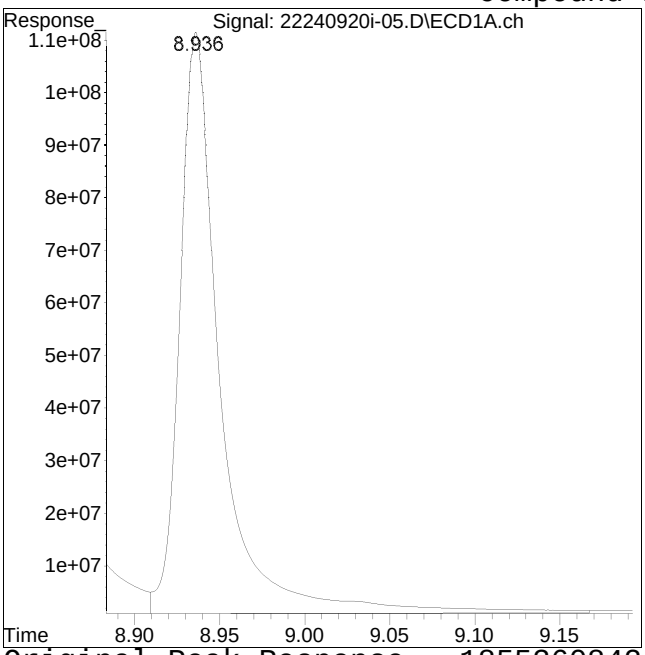


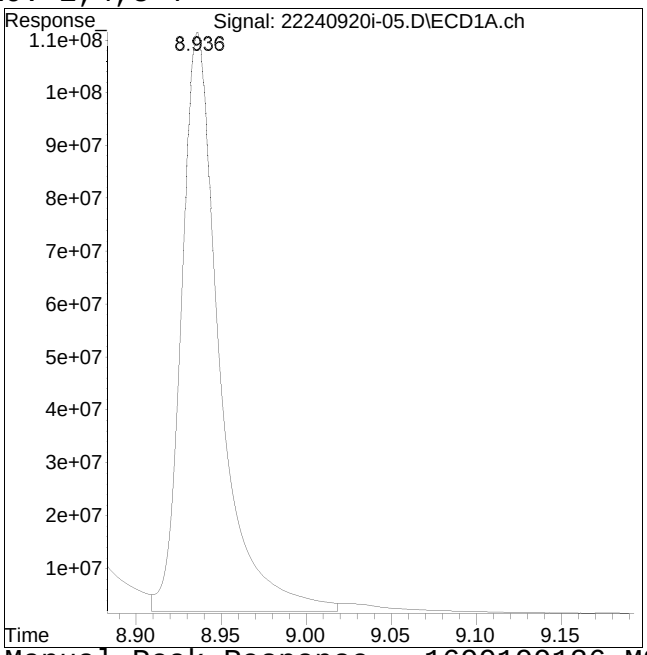
Original Peak Response = 2068445436 Manual Peak Response = 2054490780 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #10: 2,4,5-T



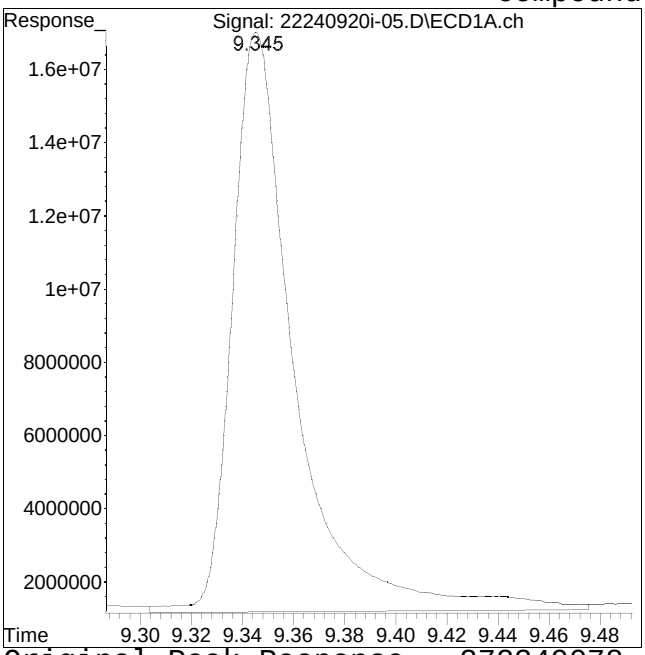


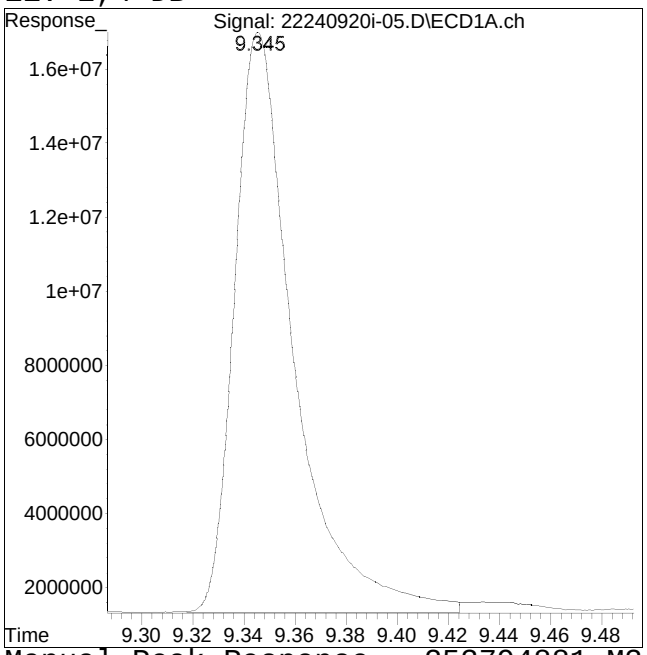
Original Peak Response = 1855360842 Manual Peak Response = 1699199126 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #11: 2,4-DB



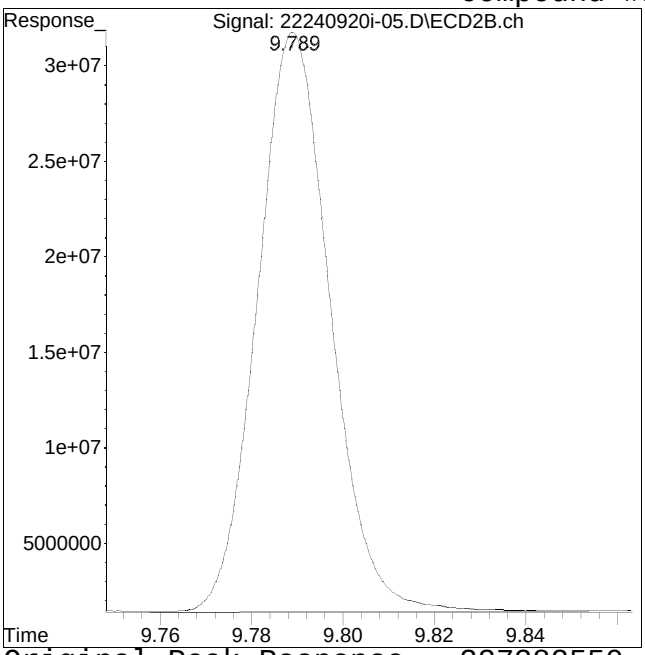


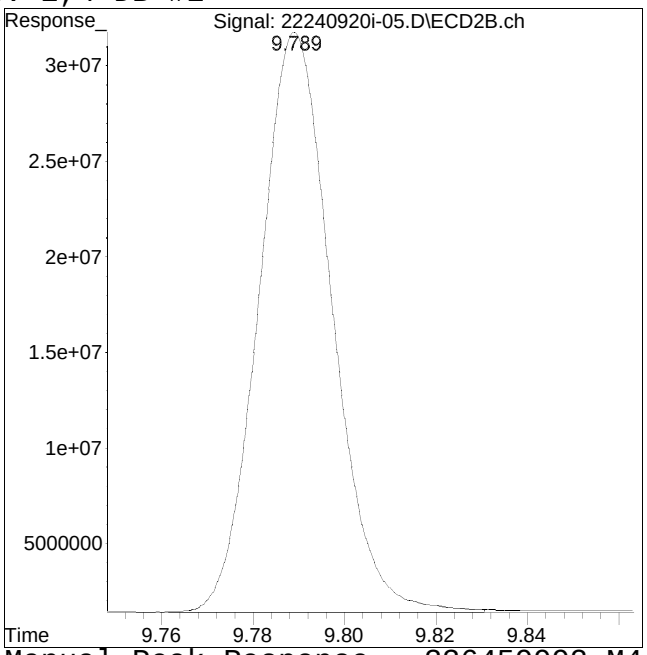
Original Peak Response = 272349078 Manual Peak Response = 253794881 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #24: 2,4-DB #2



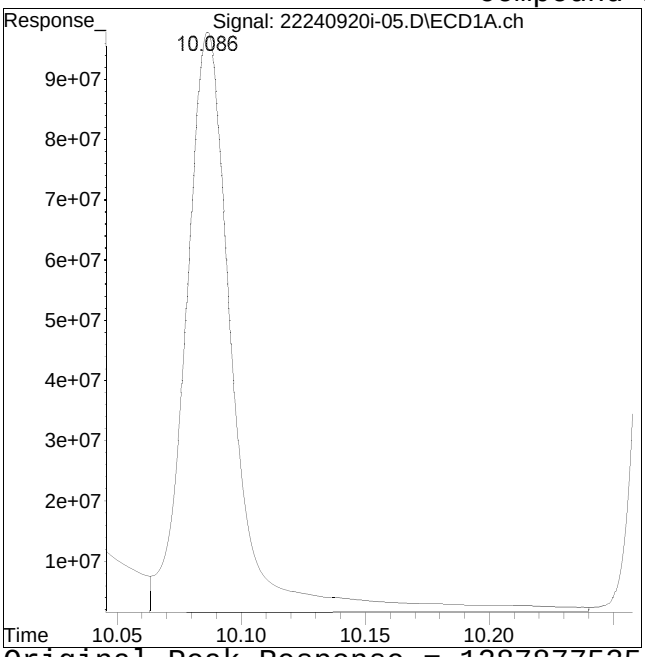


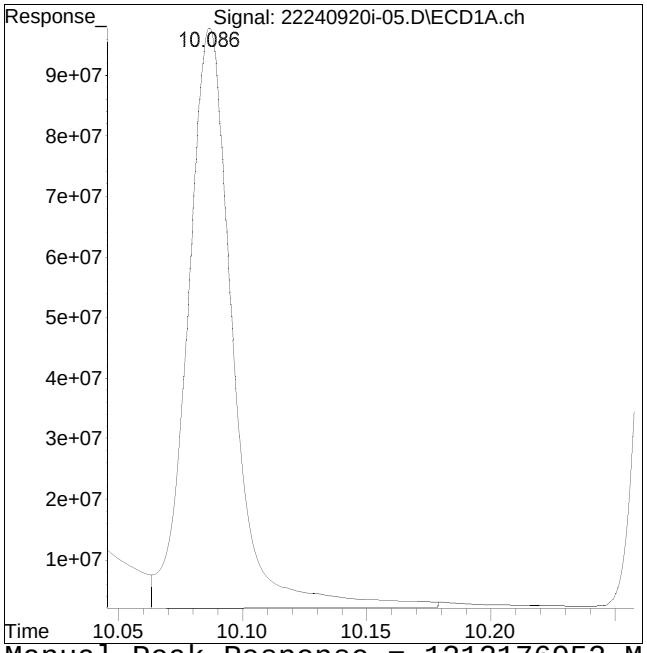
Original Peak Response = 337382550 Manual Peak Response = 336459992 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #12: Dinoseb



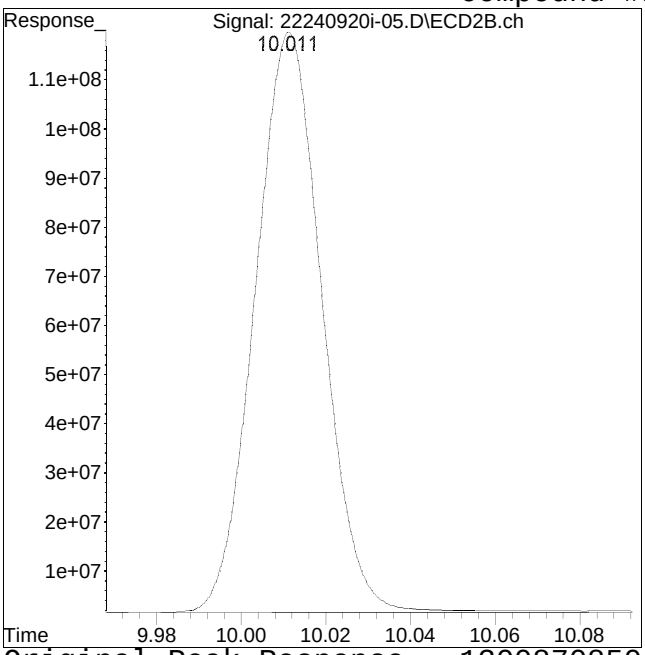


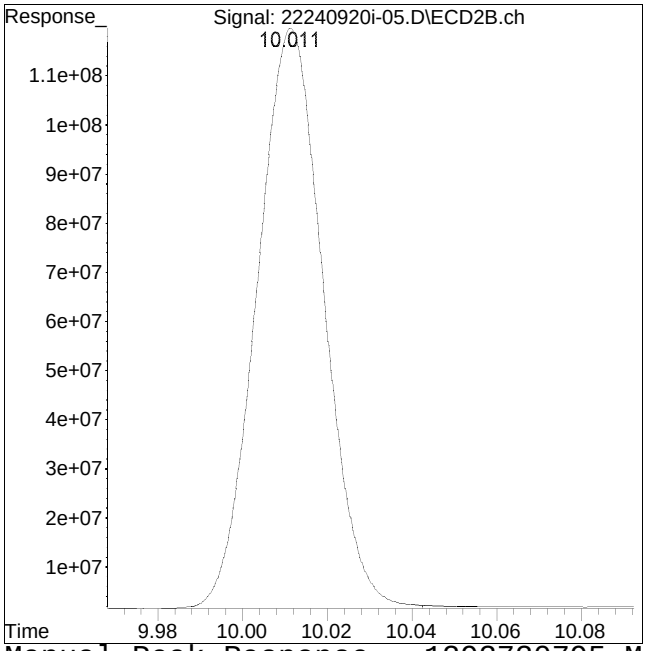
Original Peak Response = 1287877535 Manual Peak Response = 1212176952 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-05.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:38 pm Instrument : Pest22
Sample : il4herb,42e,,pp 11630 L0.5Quant Date : 9/21/2024 8:12 am

Compound #25: Dinoseb #2





Original Peak Response = 1300870850 Manual Peak Response = 1293730795 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:57 pm
Operator : pest22:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:18:10 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:18:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1532.6E6	1855.1E6	0.250M3	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.894	7.362	915.2E6	1083.4E6	0.831M4	0.831M4
		Spiked Amount 0.500	Range 30 - 150		Recovery =		166.20%#	166.20%#
		Target Compounds						
2)	t	Dalapon	2.325	2.319	1152.2E6	1208.8E6	0.801	0.804M4
4)	t	Dicamba	7.074	7.542	2807.6E6	3186.2E6	0.842M4	0.852M4
5)	t	MCPP	7.276	7.656	293.7E6	386.6E6	94.030M4	96.121M4
6)	t	MCPA	7.423	7.883	443.2E6	579.1E6	83.934M3	86.173M4
7)	t	Dichloroprop	7.777	8.200	831.5E6	993.6E6	0.820M4	0.829M4
8)	t	2,4-D	7.991	8.476	1048.0E6	1315.7E6	0.845	0.852M4
9)	t	2,4,5-TP (Si	8.708	9.136	3958.1E6	4741.4E6	0.861M4	0.865M4
10)	t	2,4,5-T	8.930	9.426	4045.2E6	4839.8E6	0.869M4	0.890M4
11)	t	2,4-DB	9.339	9.788	606.3E6	806.0E6	0.881M4	0.901M4
12)	t	Dinoseb	10.085	10.011	2799.3E6	3024.5E6	0.877M4	0.872M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:57 pm
Operator : pest22:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:18:10 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:18:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

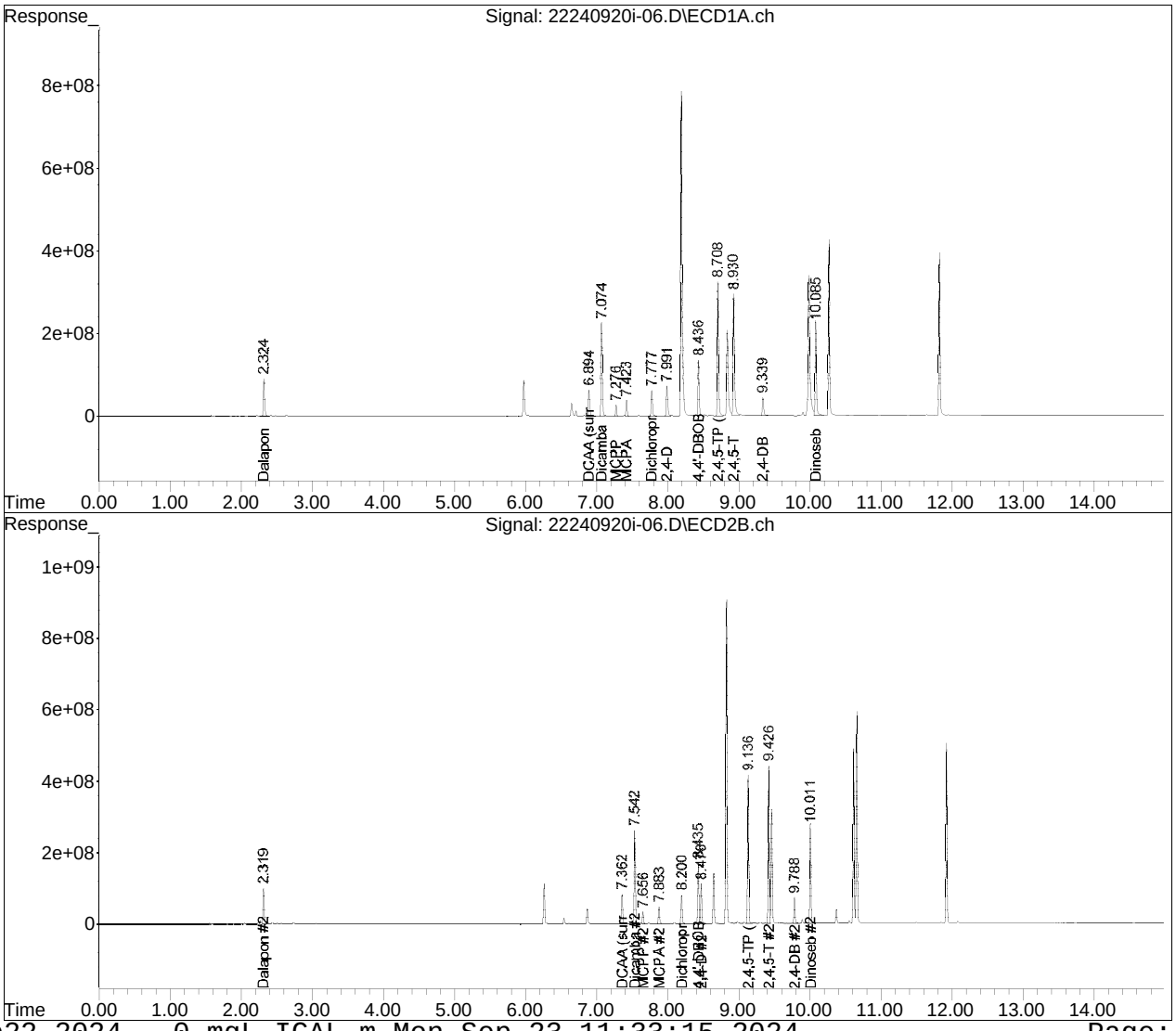
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 12:57 pm
Operator : pest22:akm
Sample : il5herb,42e,,pp 11629 L1/100
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:18:10 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:18:02 2024
Response via : Initial Calibration
Integrator: ChemStation

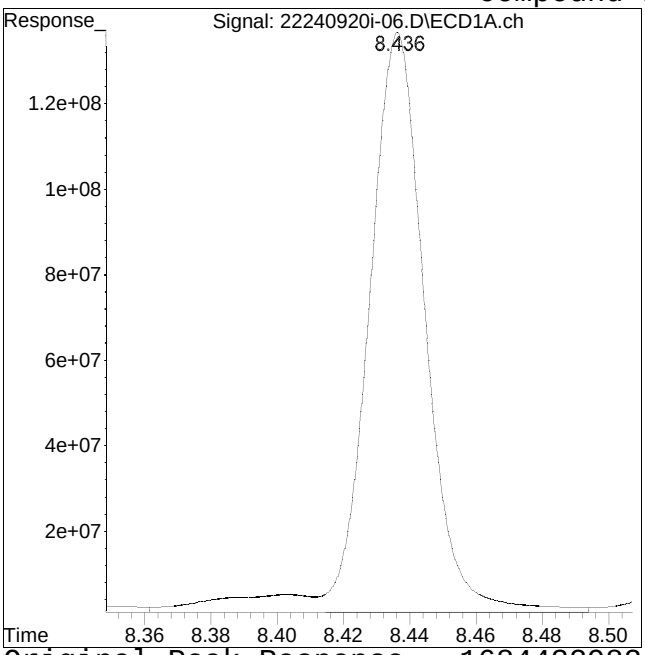
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

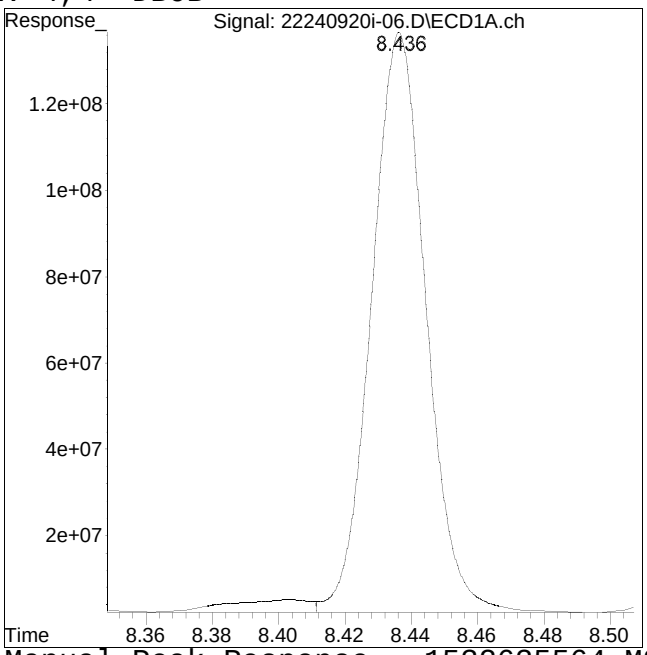


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #1: 4,4'-DBOB



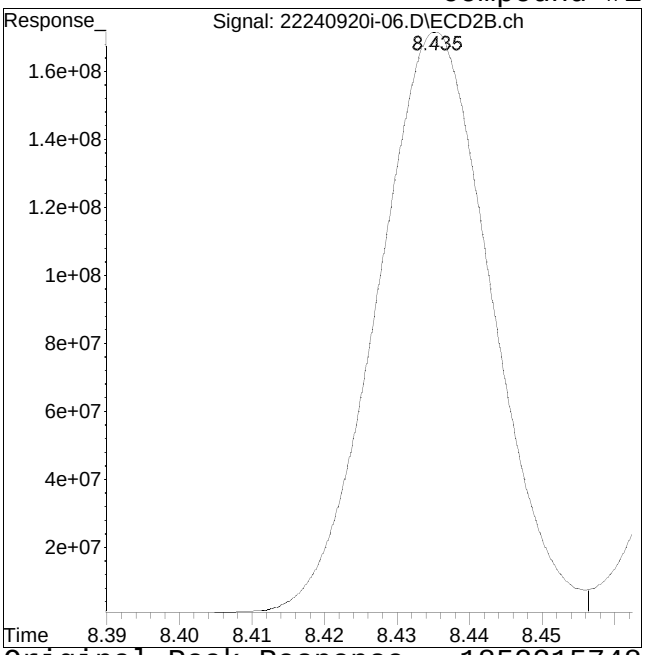


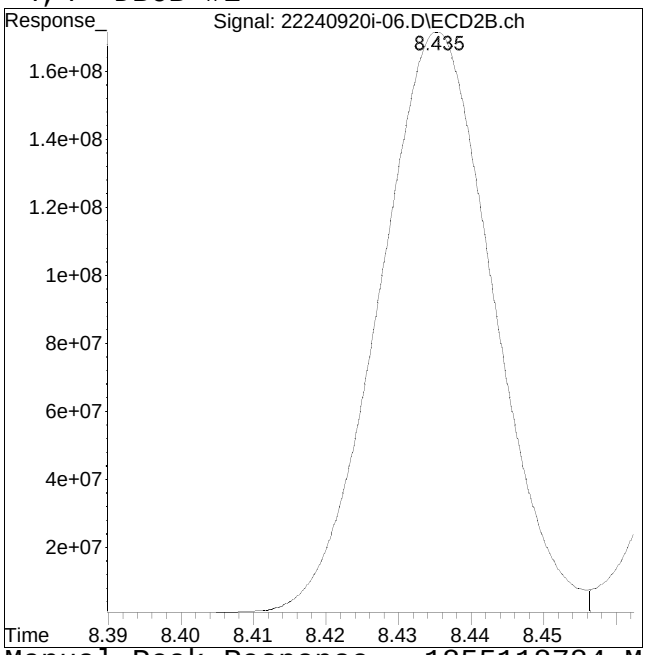
Original Peak Response = 1684432982 Manual Peak Response = 1532635564 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #14: 4,4'-DBOB #2



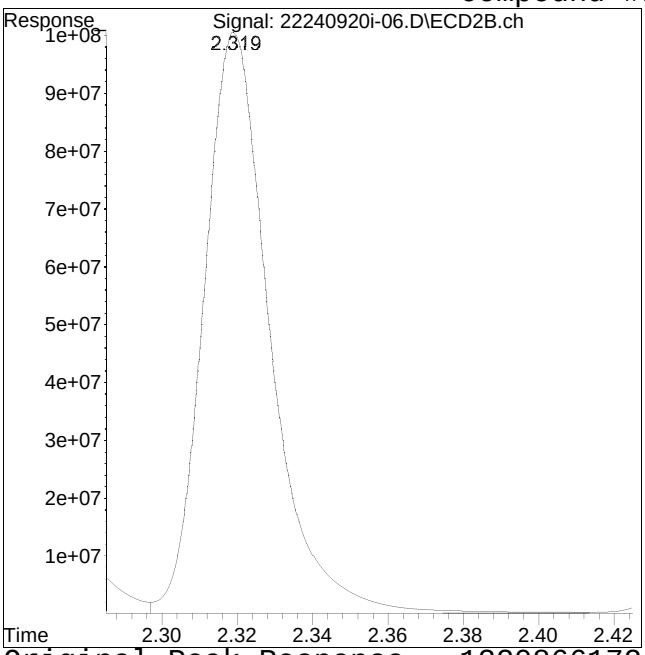


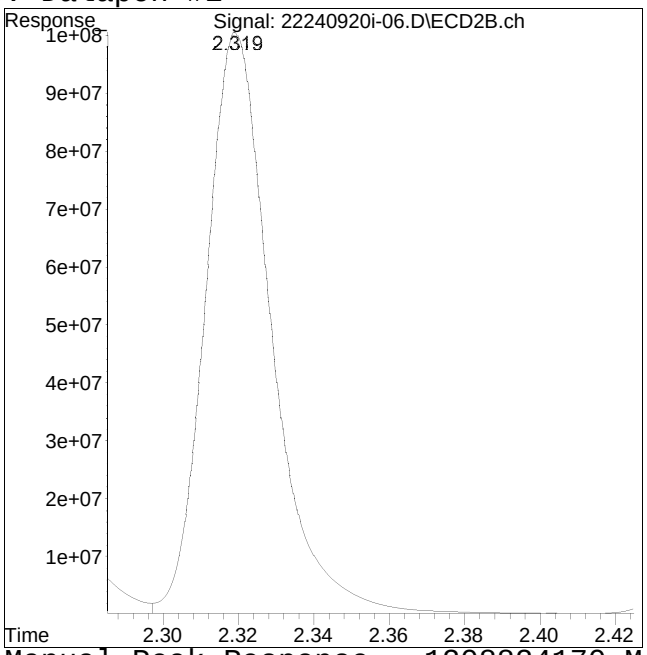
Original Peak Response = 1852215748 Manual Peak Response = 1855118784 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #15: Dalapon #2



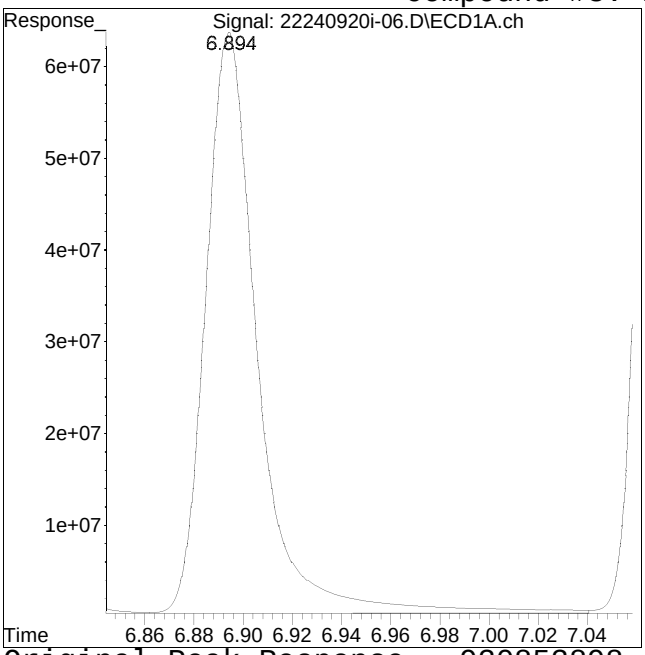


Original Peak Response = 1220866172 Manual Peak Response = 1208824170 M4
M4 = Poor automated baseline construction.

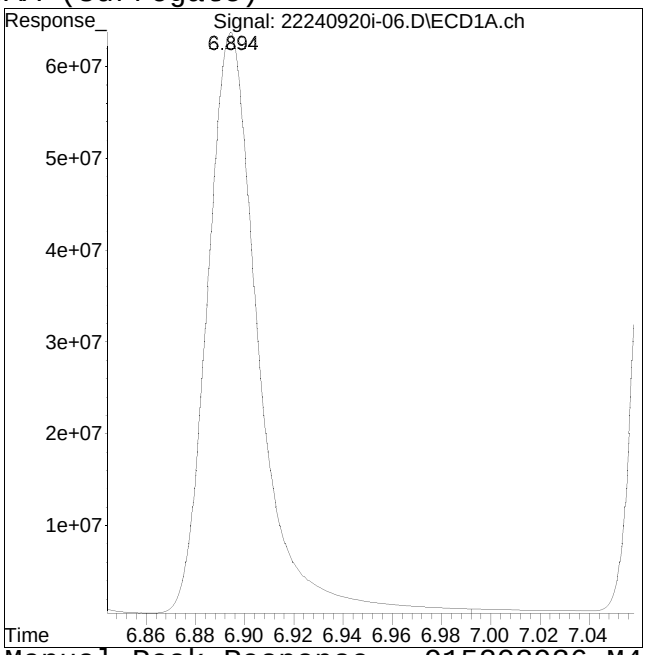
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #3: DCAA (surrogate)



Original Peak Response = 930853898



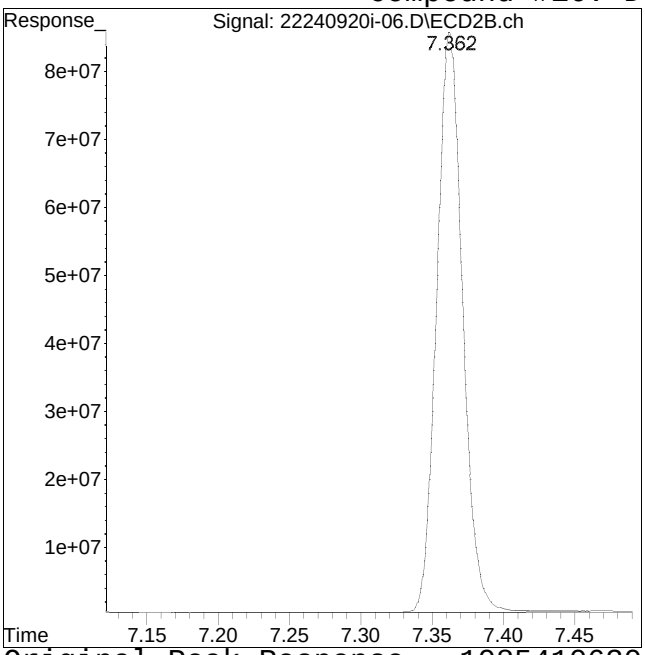
Manual Peak Response = 915202936 M4

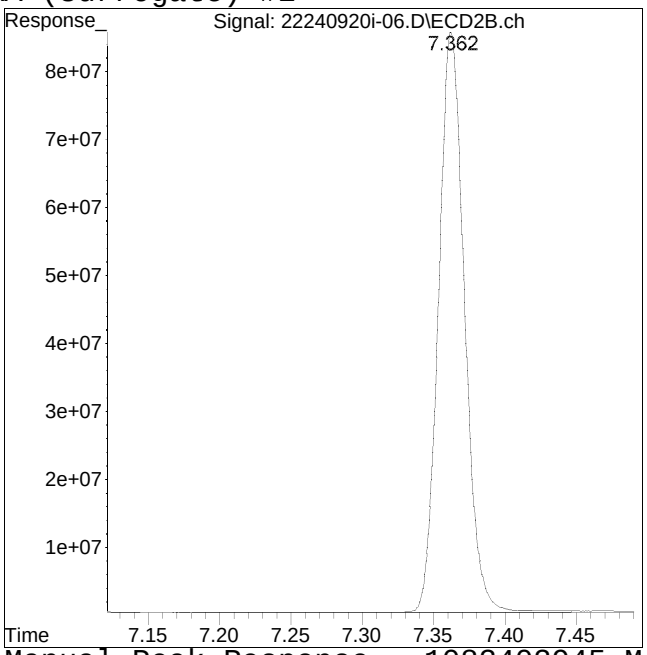
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #16: DCAA (surrogate) #2



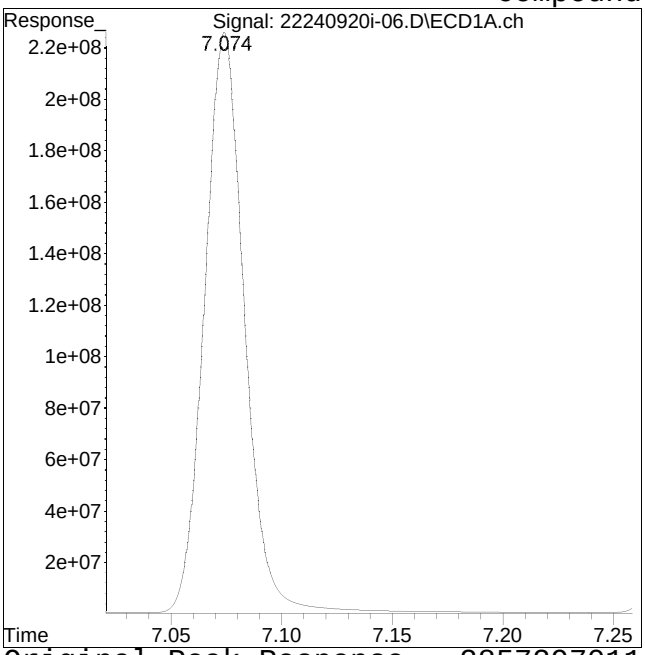


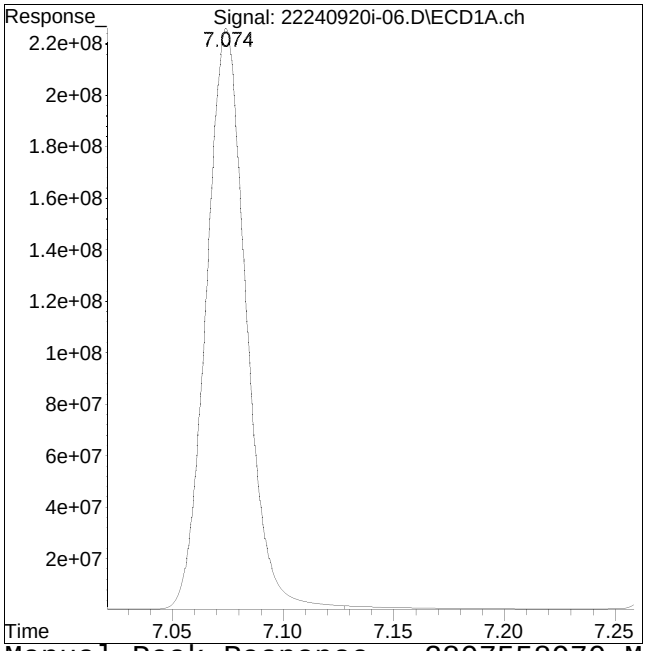
Original Peak Response = 1085410630 Manual Peak Response = 1083403945 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #4: Dicamba



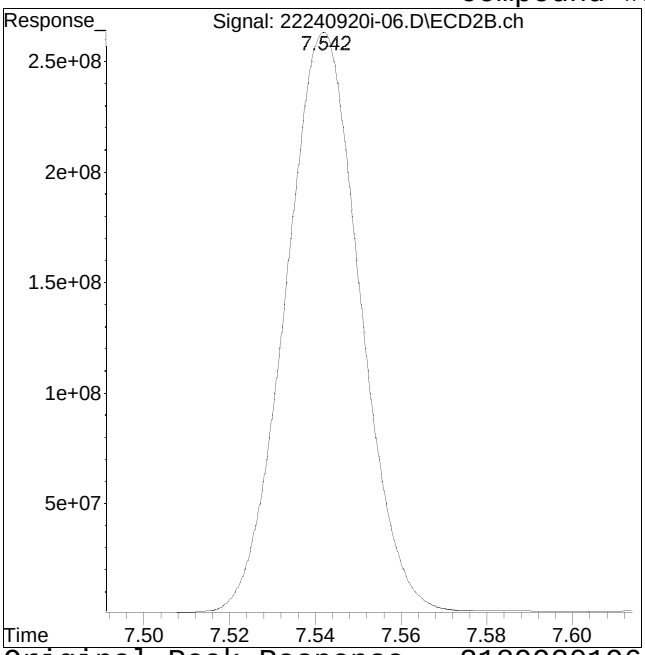


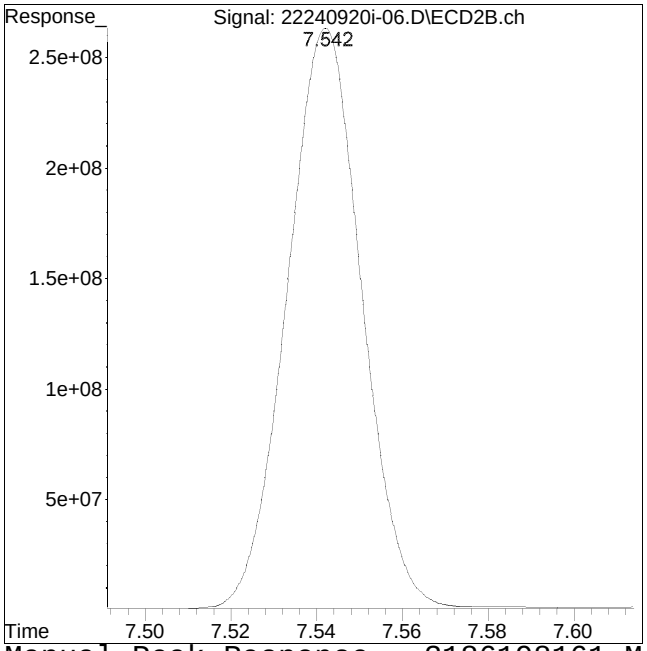
Original Peak Response = 2857297011 Manual Peak Response = 2807558970 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #17: Dicamba #2



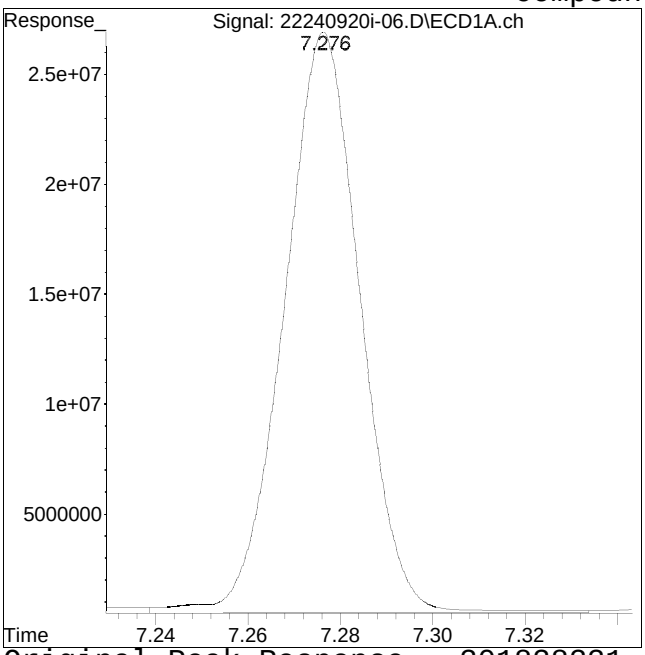


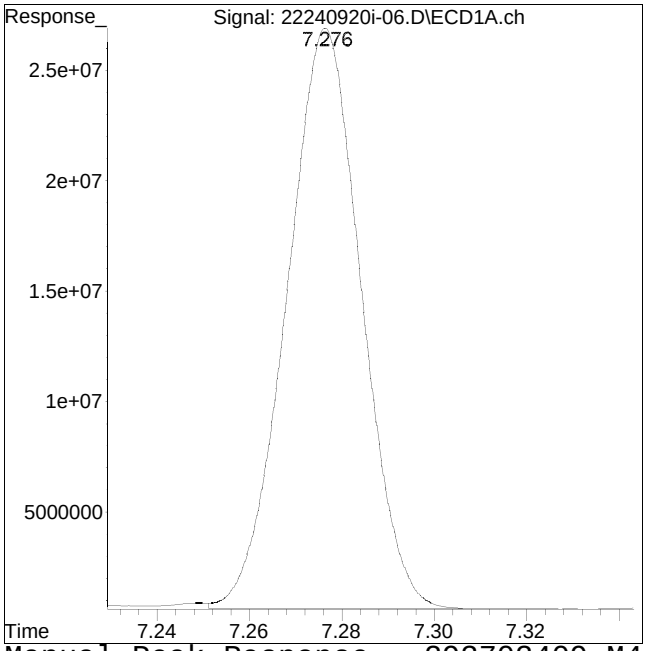
Original Peak Response = 3189920196 Manual Peak Response = 3186198161 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #5: MCPP



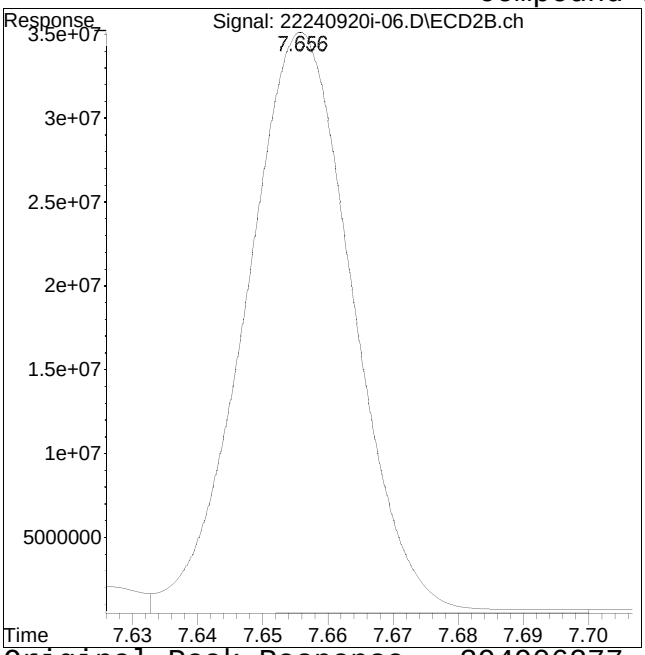


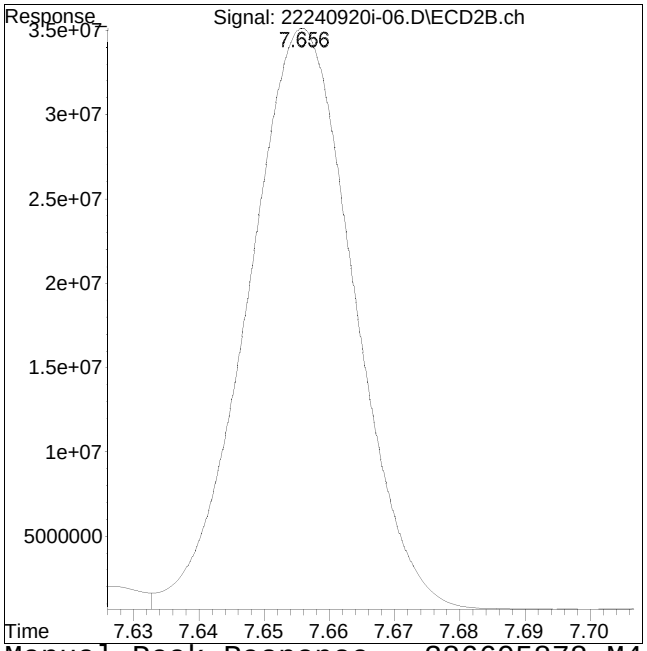
Original Peak Response = 301838331 Manual Peak Response = 293703409 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #18: MCPP #2



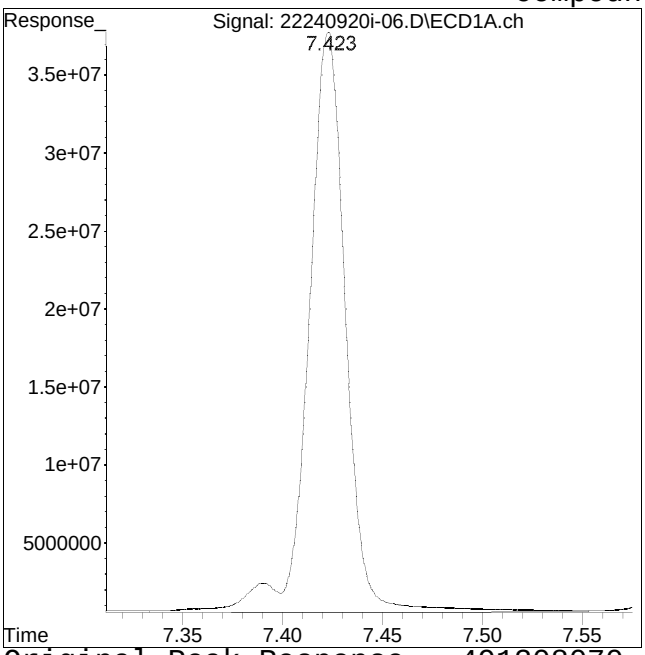


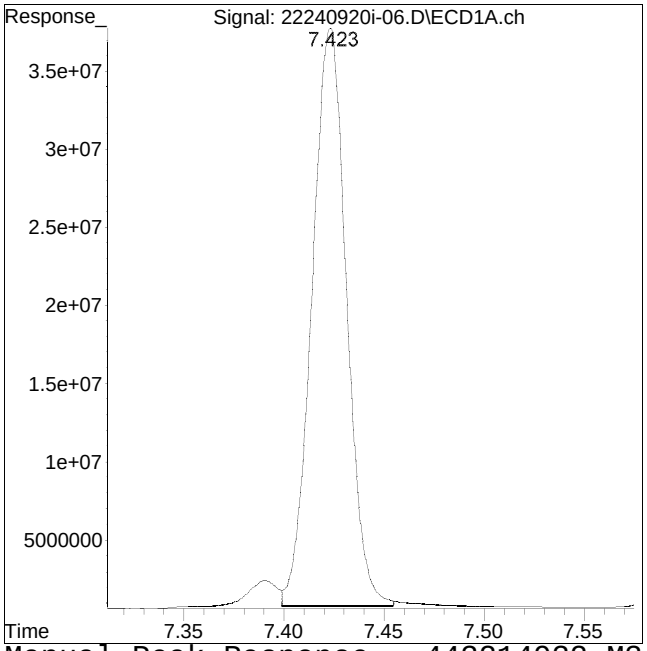
Original Peak Response = 394906277 Manual Peak Response = 386605878 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #6: MCPA



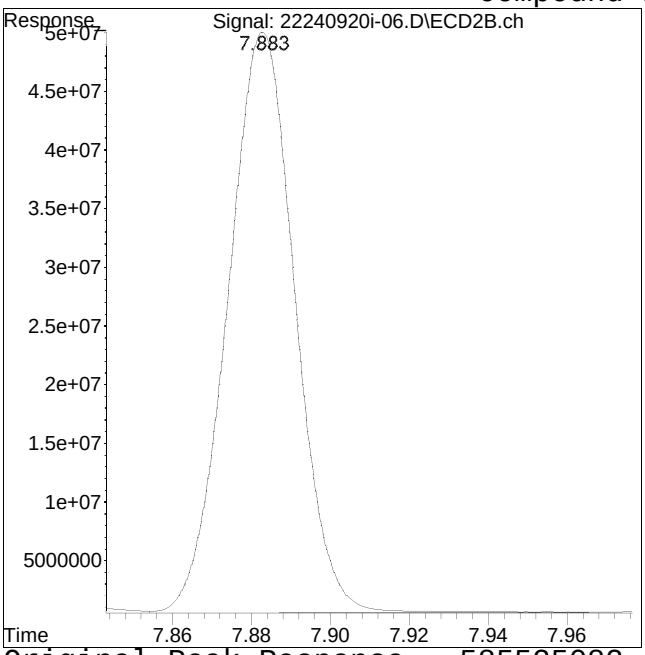


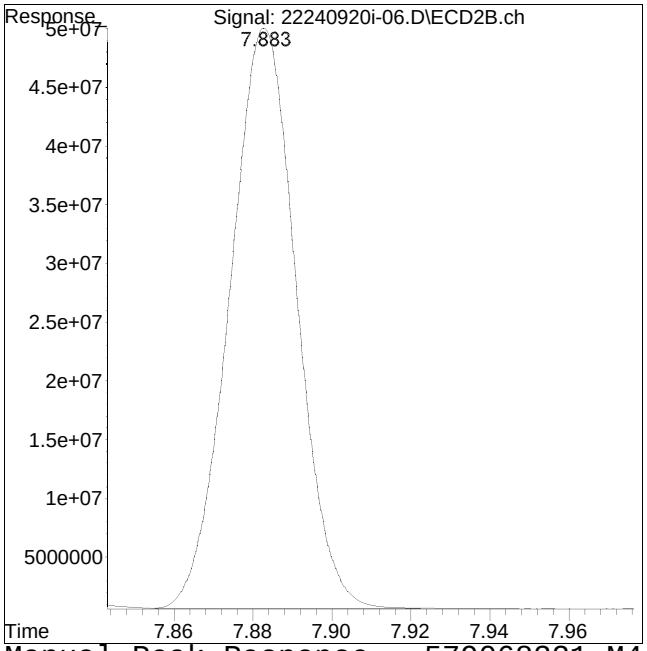
Original Peak Response = 491308070 Manual Peak Response = 443214932 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #19: MCPA #2



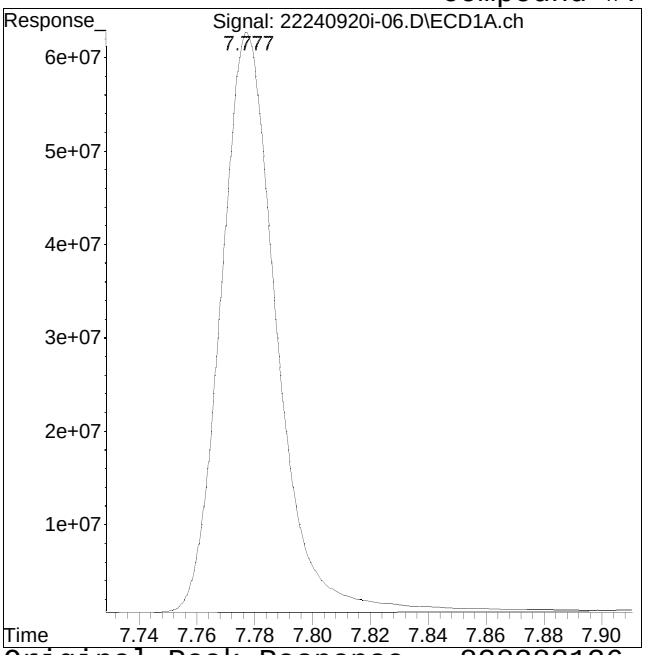


Original Peak Response = 585525082 Manual Peak Response = 579068321 M4
M4 = Poor automated baseline construction.

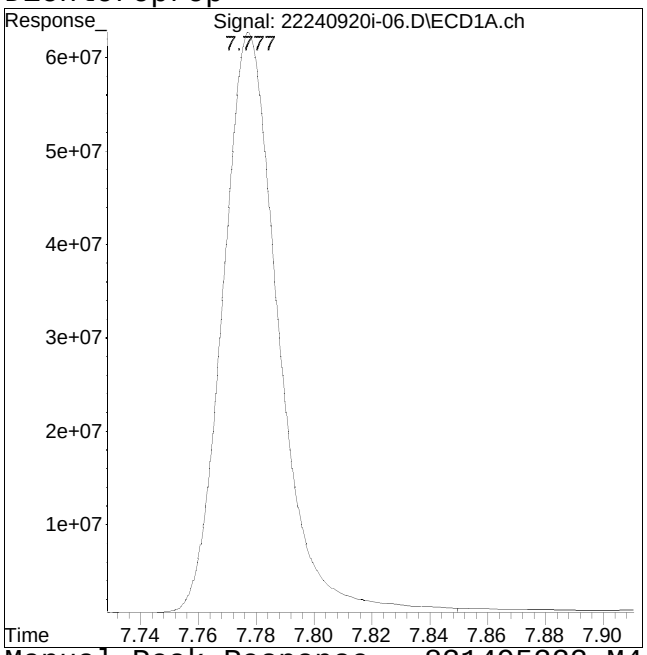
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #7: Dichloroprop



Original Peak Response = 838383136

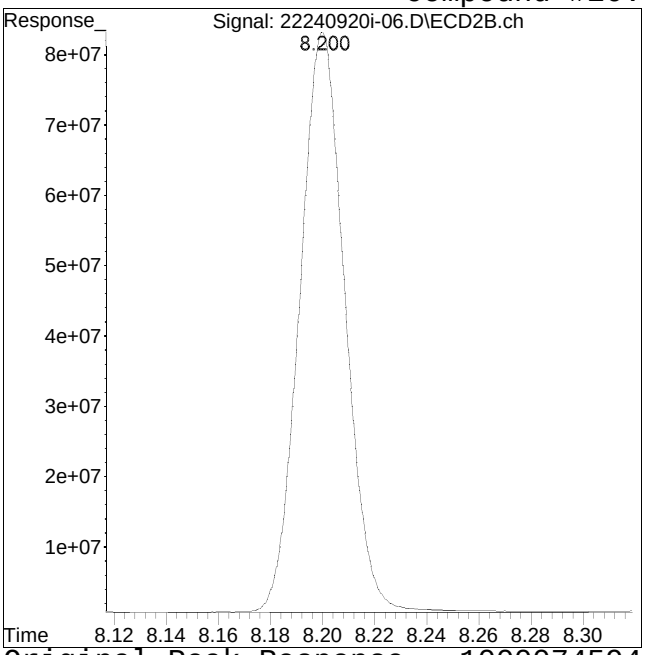


Manual Peak Response = 831495322 M4
M4 = Poor automated baseline construction.

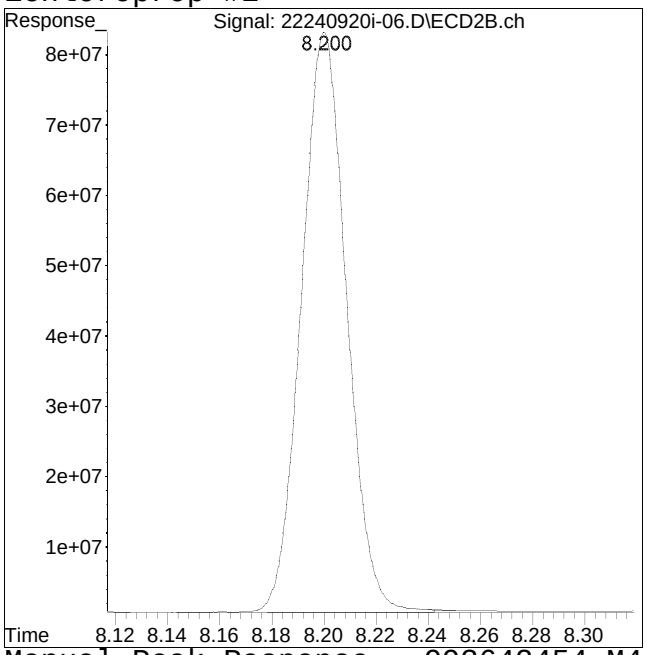
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #20: Dichloroprop #2



Original Peak Response = 1000074594



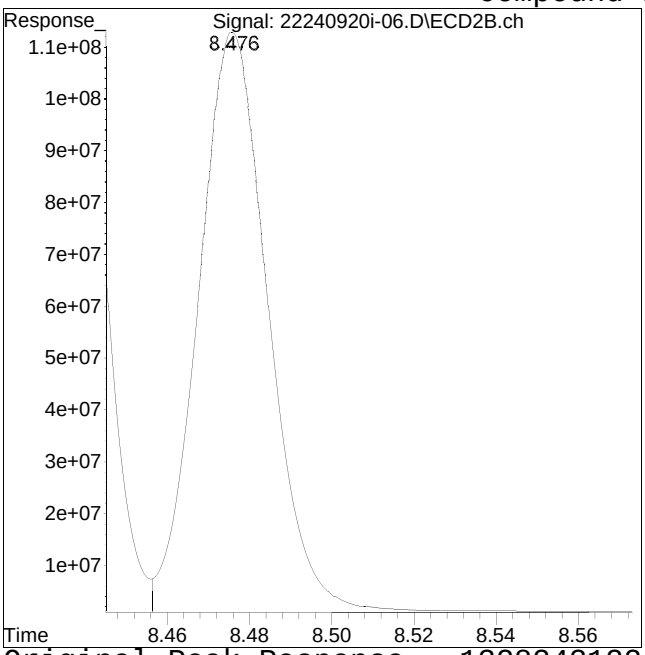
Manual Peak Response = 993642454 M4

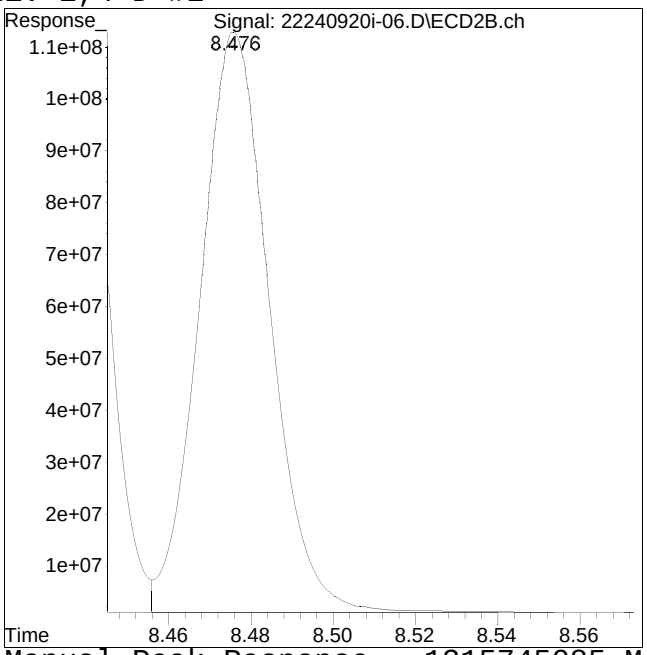
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #21: 2,4-D #2



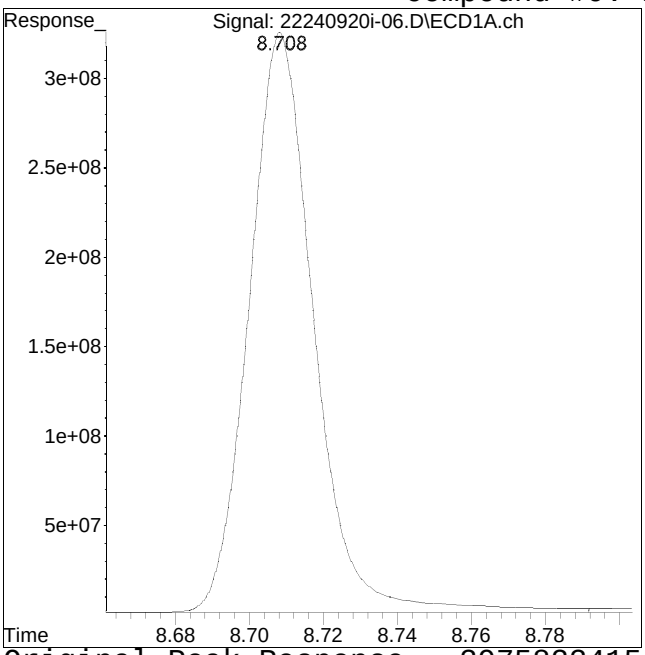


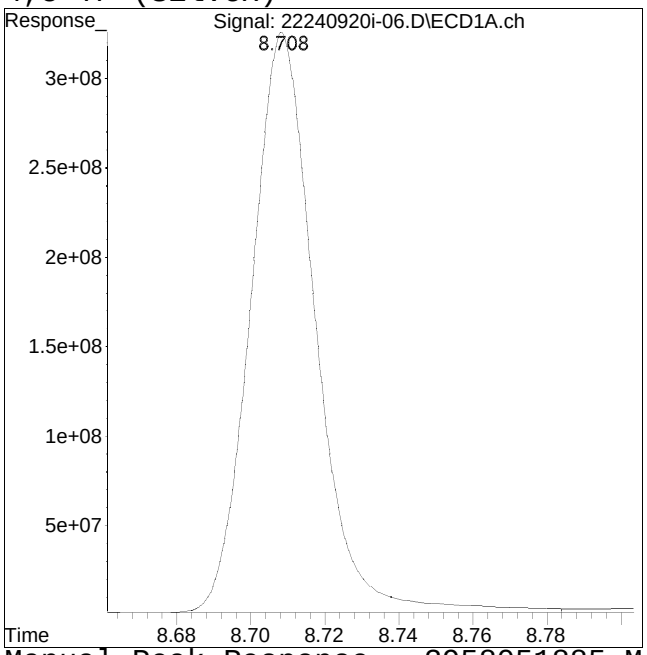
Original Peak Response = 1328243122 Manual Peak Response = 1315745085 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #9: 2,4,5-TP (Silvex)



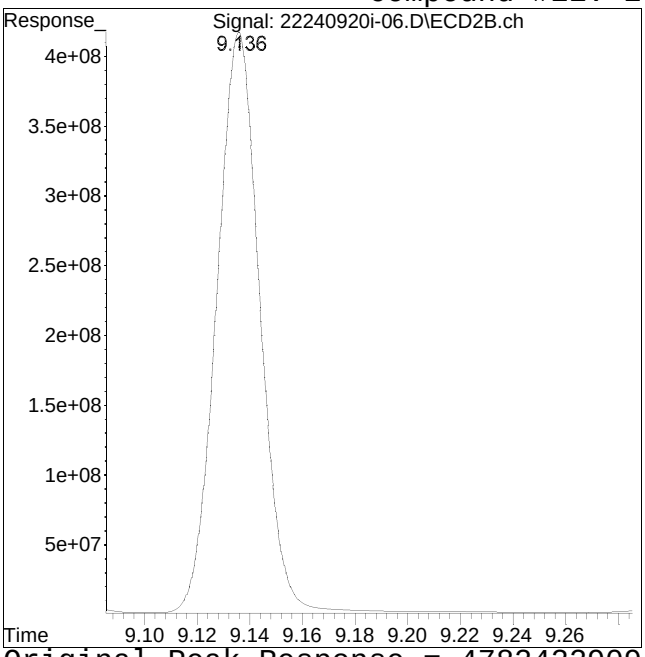


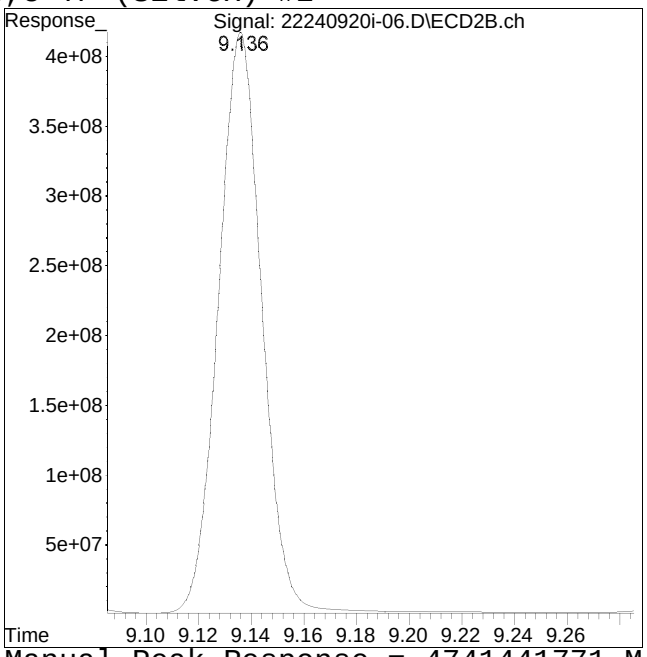
Original Peak Response = 3975823415 Manual Peak Response = 3958051885 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #22: 2,4,5-TP (Silvex) #2



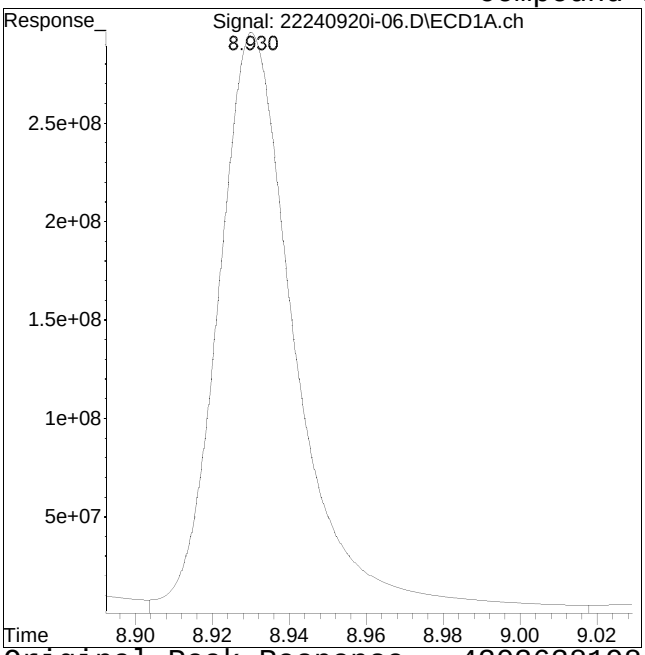


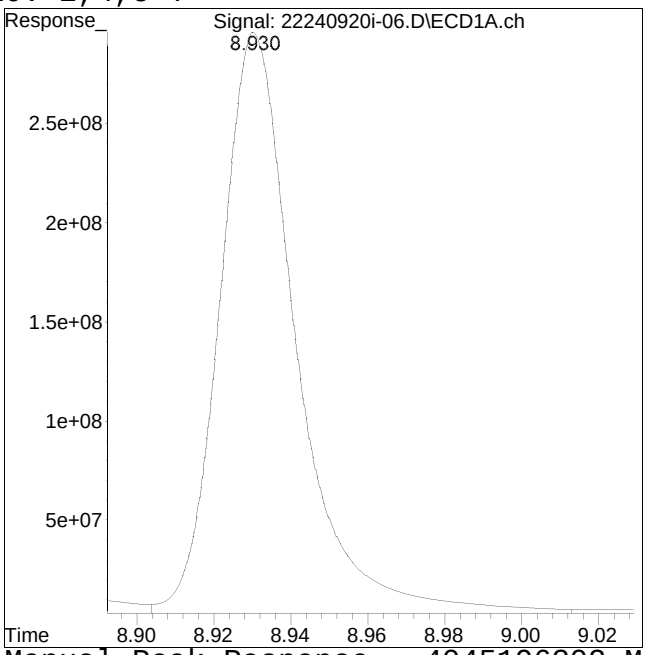
Original Peak Response = 4782422909 Manual Peak Response = 4741441771 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #10: 2,4,5-T



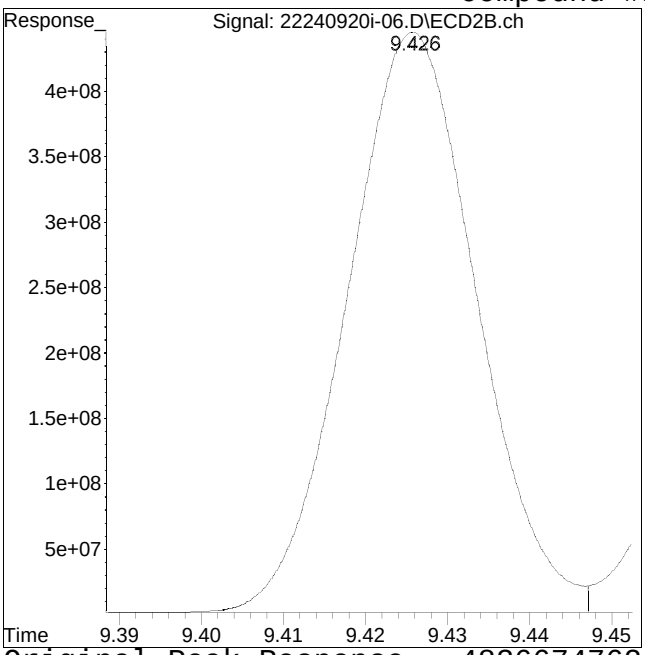


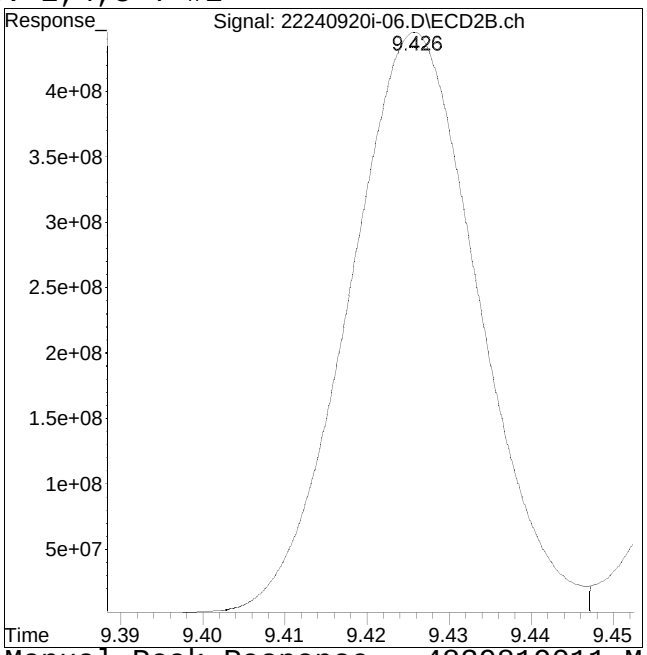
Original Peak Response = 4203638198 Manual Peak Response = 4045196302 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #23: 2,4,5-T #2



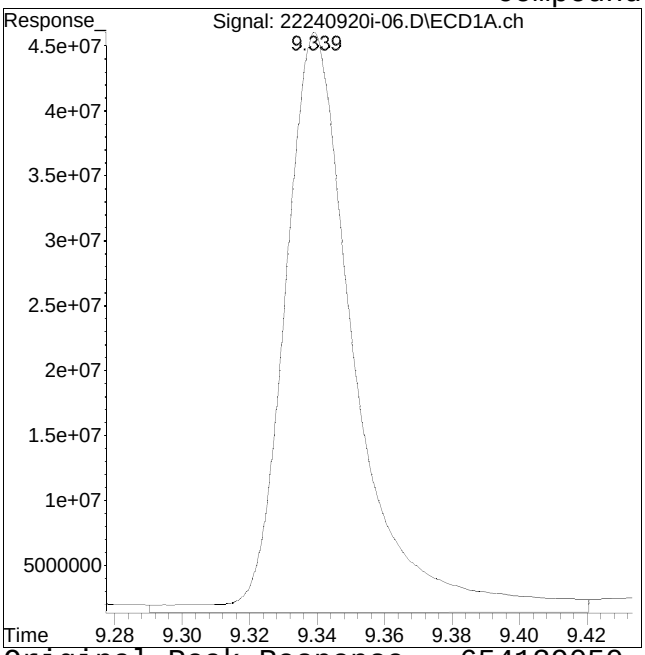


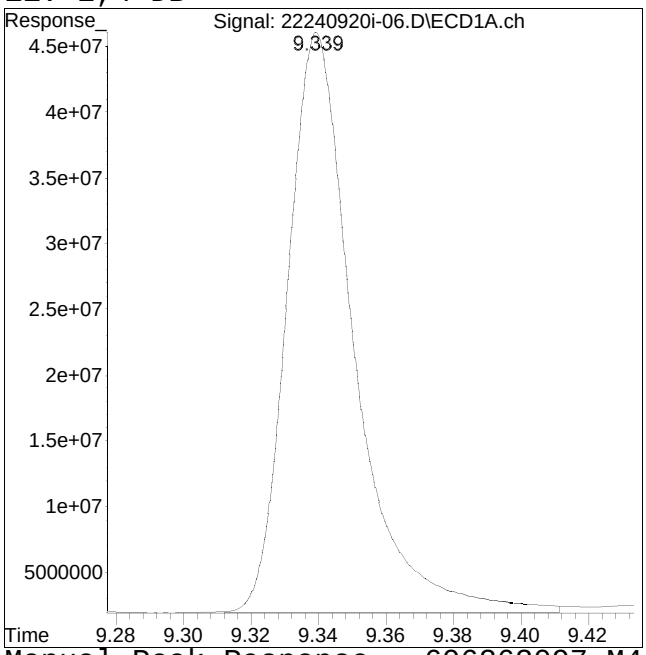
Original Peak Response = 4836674762 Manual Peak Response = 4839819011 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #11: 2,4-DB



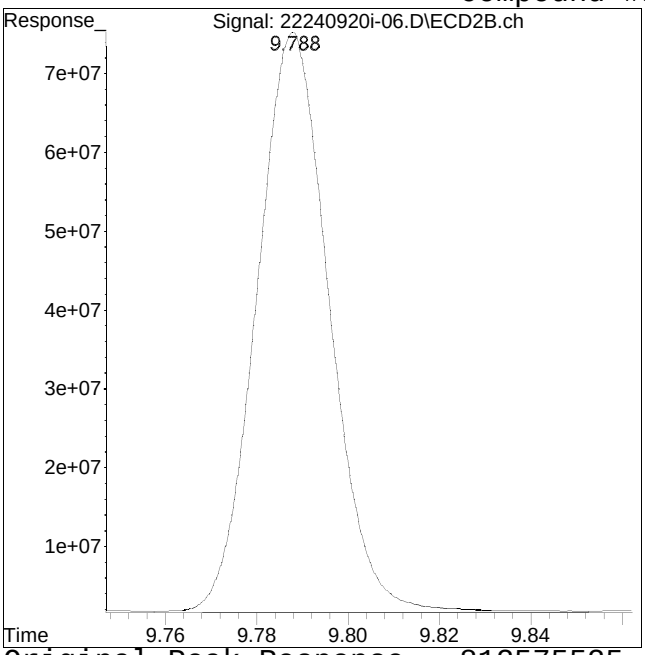


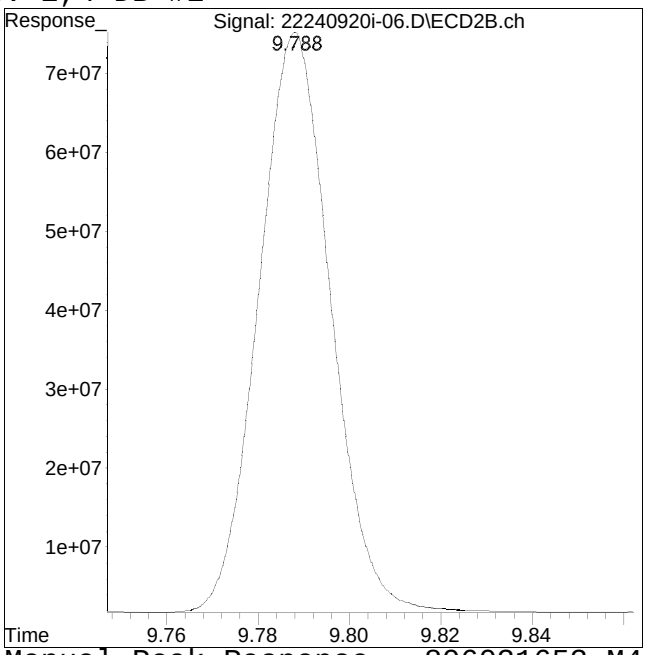
Original Peak Response = 654139050 Manual Peak Response = 606263097 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #24: 2,4-DB #2



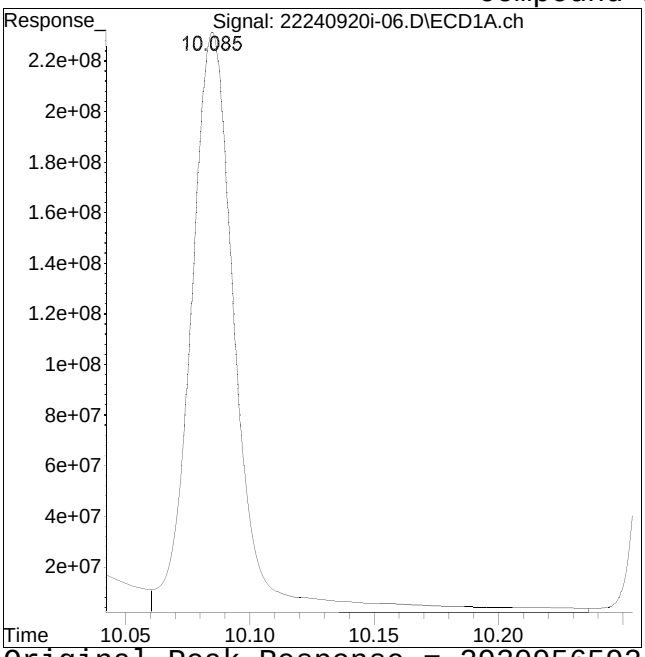


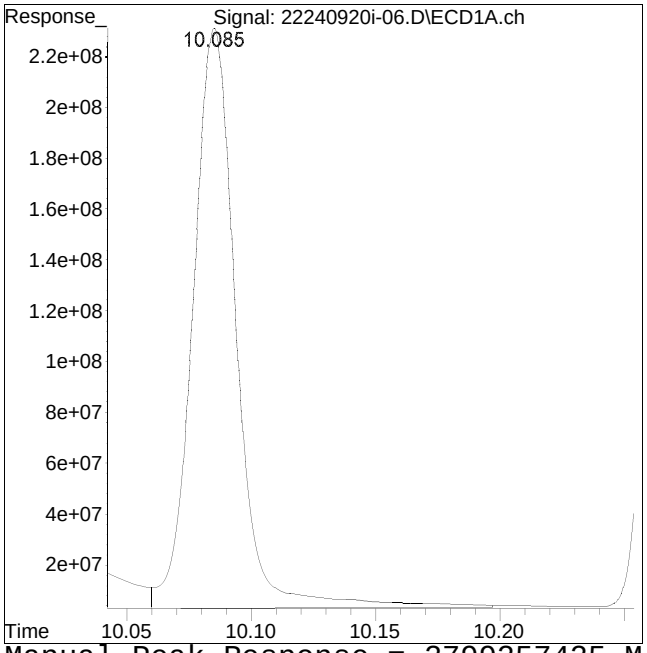
Original Peak Response = 812575525 Manual Peak Response = 806031653 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #12: Dinoseb



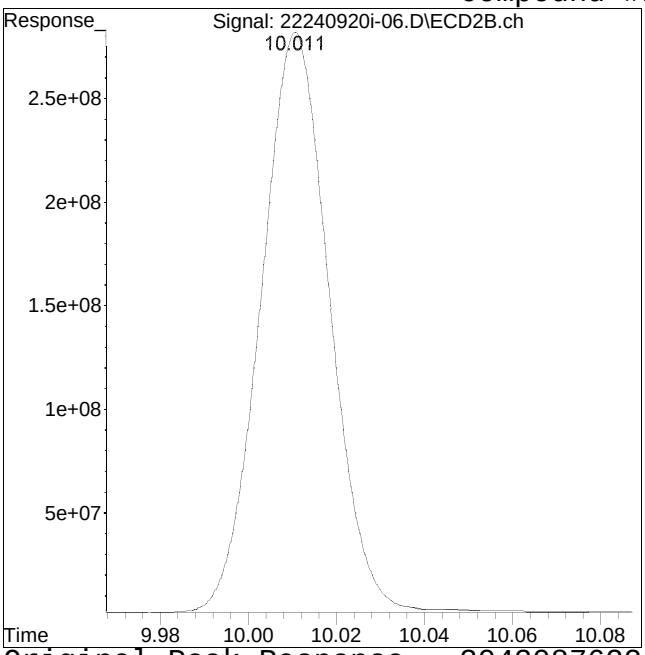


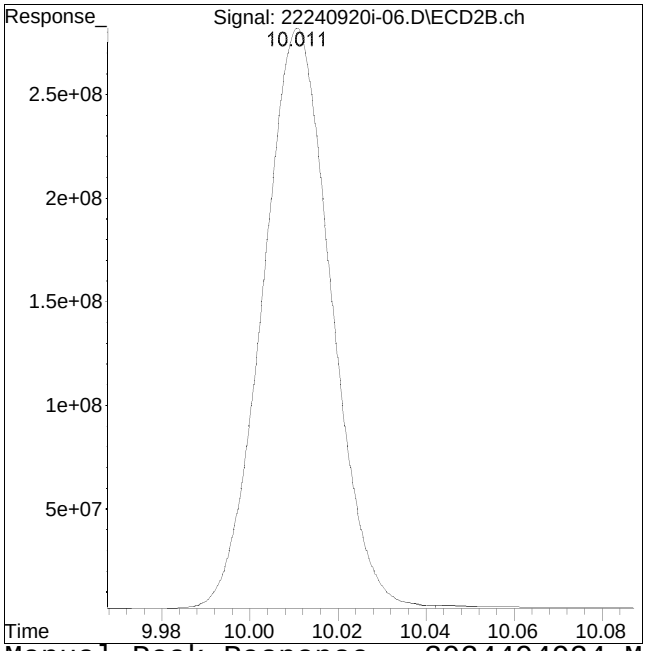
Original Peak Response = 2930956592 Manual Peak Response = 2799257425 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-06.D Operator : pest22:akm
Date Inj'd : 9/20/2024 12:57 pm Instrument : Pest22
Sample : il5herb,42e,,pp 11629 L1/1Quant Date : 9/21/2024 8:18 am

Compound #25: Dinoseb #2





Original Peak Response = 3043087622 Manual Peak Response = 3024494934 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:15 pm
Operator : pest22:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:22:56 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:22:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1438.5E6	1699.0E6	0.250M4	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.893	7.361	1579.8E6	1885.6E6	1.604M4	1.644M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	320.80%#	328.80%#
		Target Compounds						
2)	t	Dalapon	2.326	2.321	2051.2E6	2176.5E6	1.584M4	1.634M4
4)	t	Dicamba	7.074	7.541	5099.0E6	5716.3E6	1.686M4	1.717M4
5)	t	MCPP	7.279	7.658	555.6E6	731.0E6	189.132M4	195.725M4
6)	t	MCPA	7.425	7.885	805.6E6	1049.9E6	167.836M4	174.202M4
7)	t	Dichloroprop	7.776	8.199	1445.0E6	1739.5E6	1.595M4	1.649M4
8)	t	2,4-D	7.988	8.475	1880.9E6	2368.0E6	1.675	1.722M4
9)	t	2,4,5-TP (Si	8.707	9.135	7054.9E6	8507.5E6	1.694M4	1.742M4
10)	t	2,4,5-T	8.929	9.425	7389.1E6	8840.9E6	1.738M4	1.805M4
11)	t	2,4-DB	9.337	9.787	1082.2E6	1447.5E6	1.731M4	1.803M4
12)	t	Dinoseb	10.085	10.010	5021.9E6	5486.8E6	1.739M4	1.768M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:15 pm
Operator : pest22:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:22:56 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:22:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

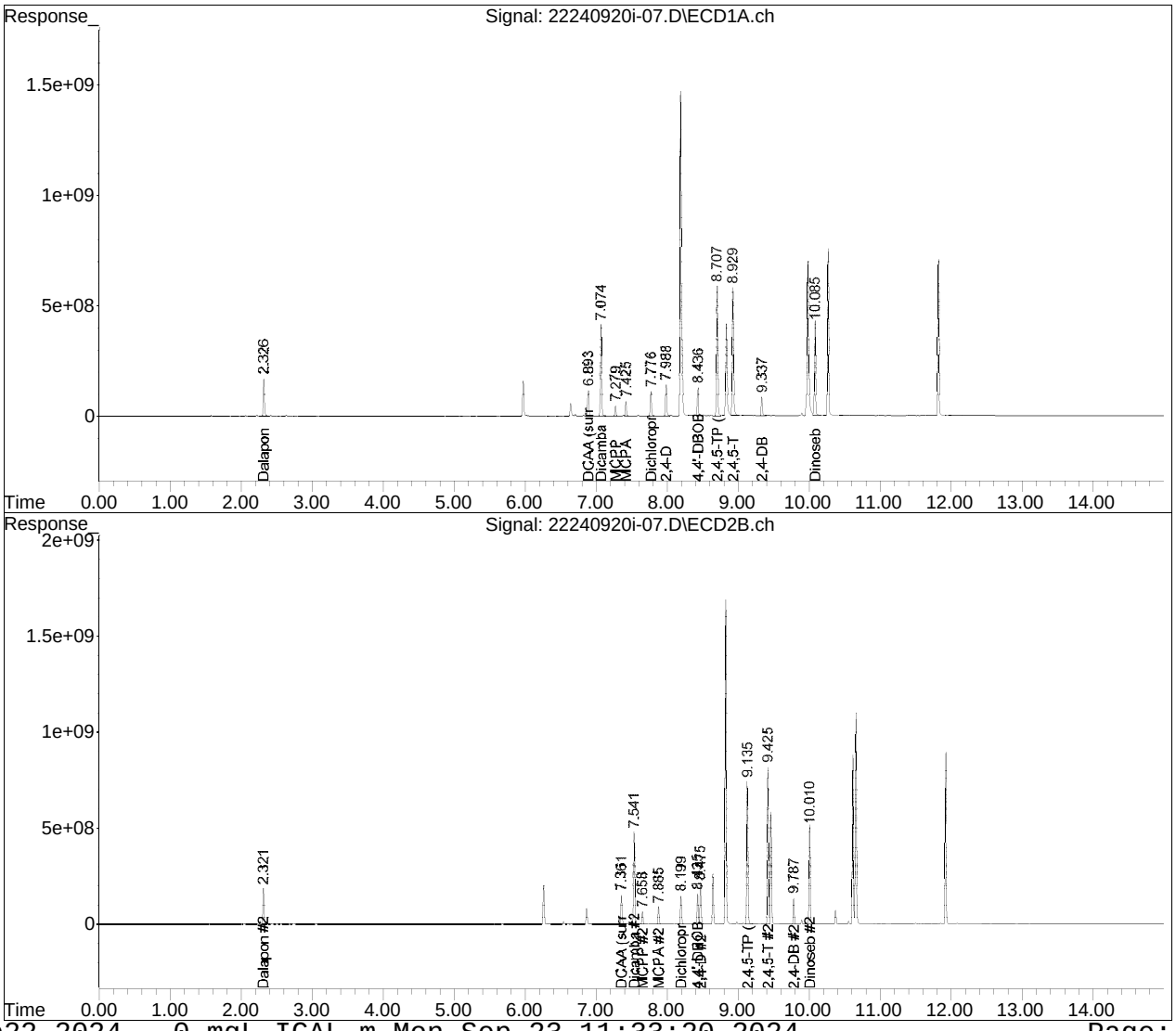
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-07.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:15 pm
Operator : pest22:akm
Sample : il6herb,42e,,pp 11628 L2/200
Misc : WG1975124, (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 21 08:22:56 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Sat Sep 21 08:22:48 2024
Response via : Initial Calibration
Integrator: ChemStation

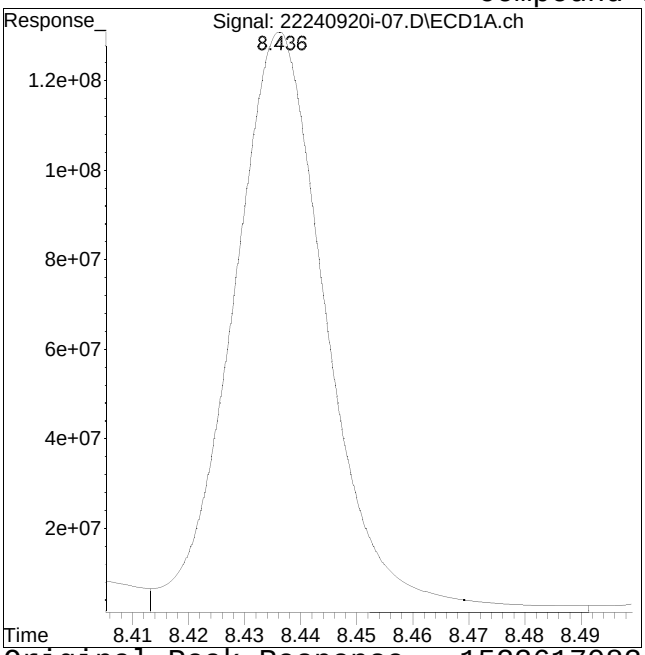
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

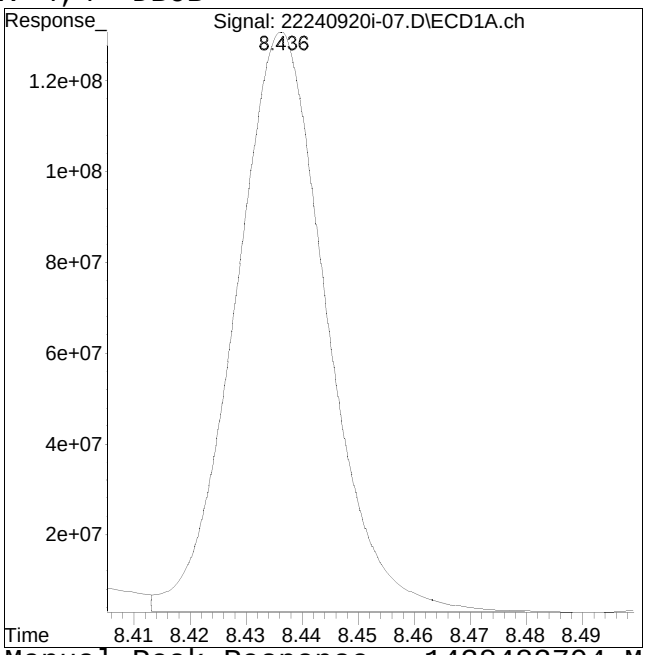


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #1: 4,4'-DBOB



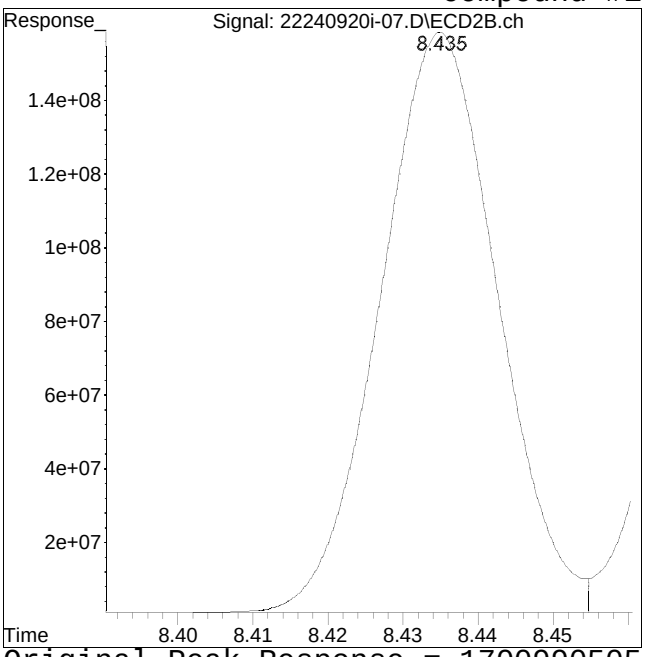


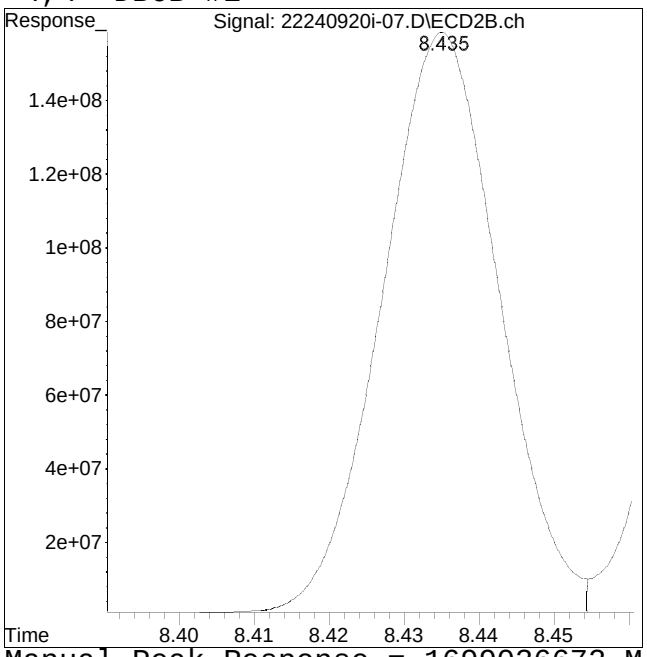
Original Peak Response = 1523617083 Manual Peak Response = 1438483704 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #14: 4,4'-DBOB #2



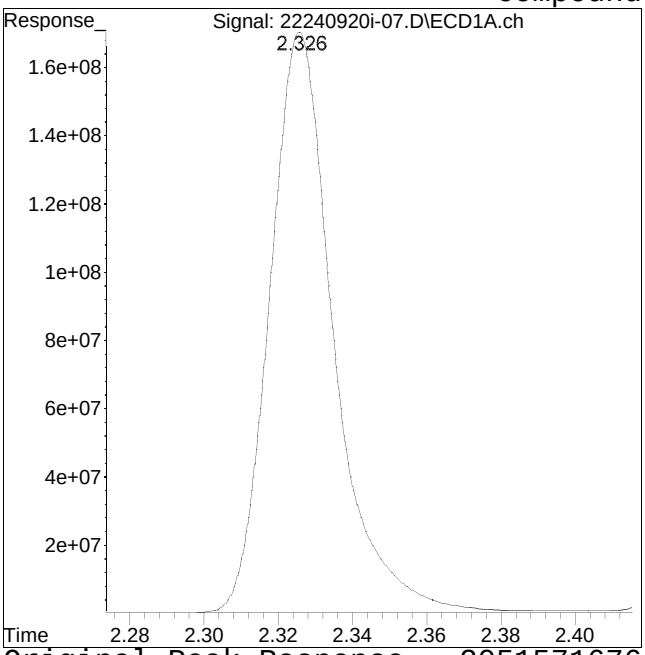


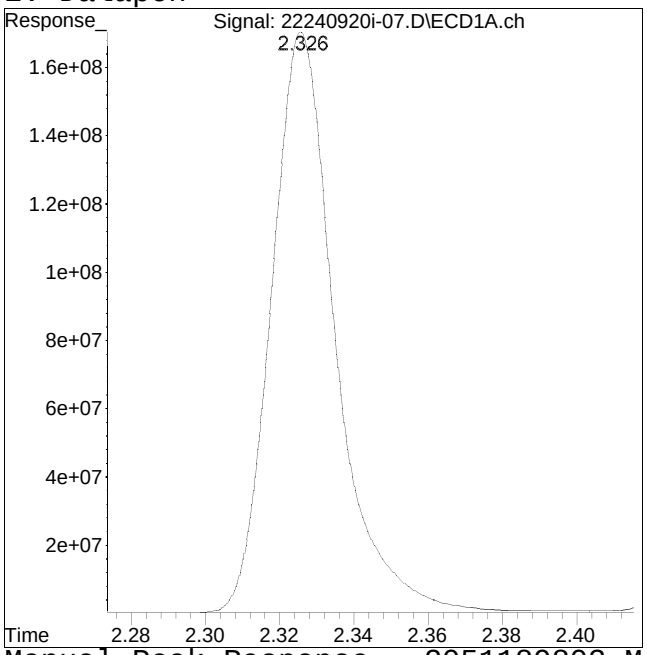
Original Peak Response = 1700990505 Manual Peak Response = 1699036672 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #2: Dalapon



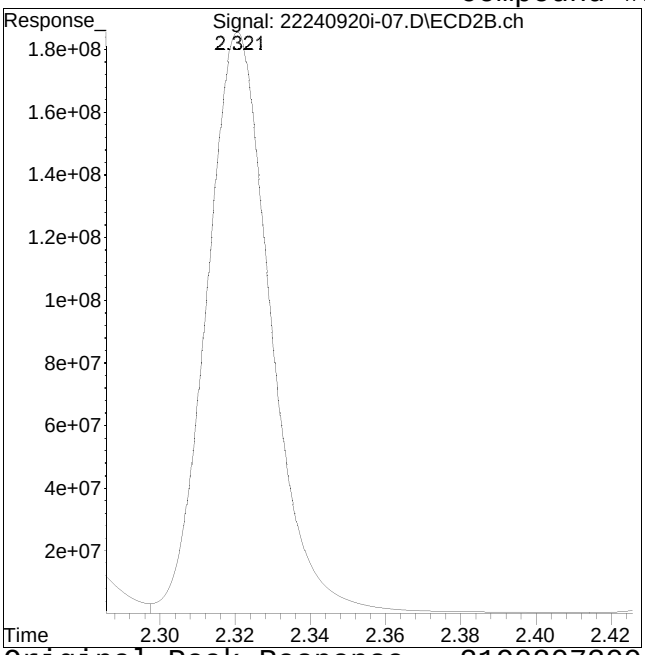


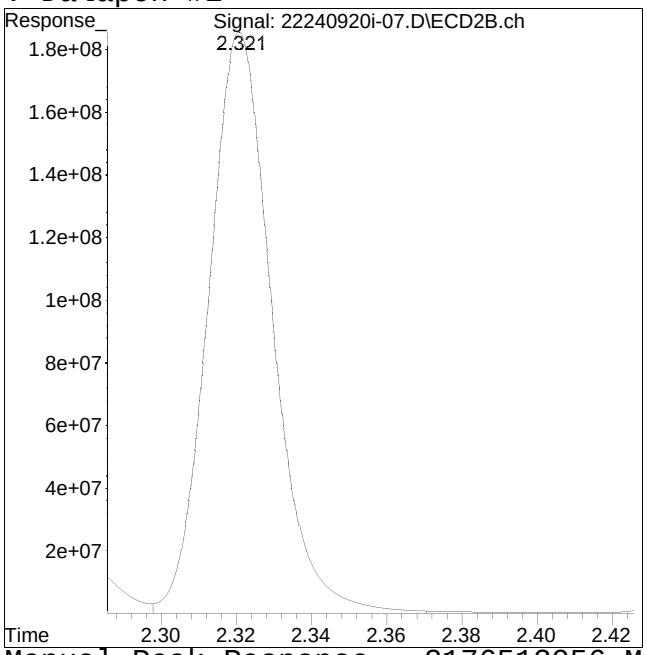
Original Peak Response = 2051571676 Manual Peak Response = 2051189803 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #15: Dalapon #2



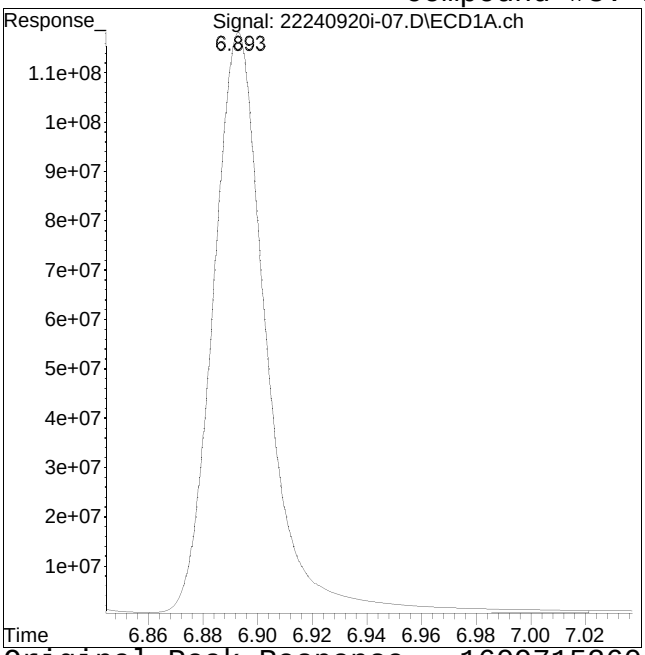


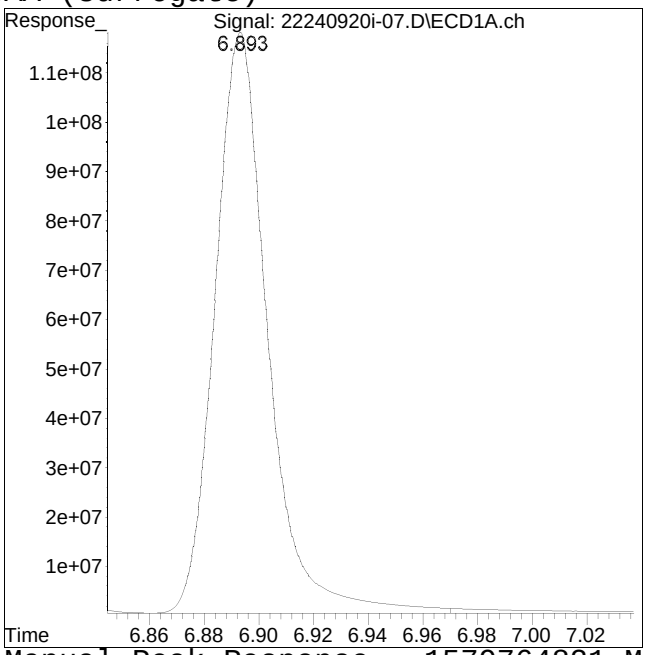
Original Peak Response = 2190207309 Manual Peak Response = 2176513956 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #3: DCAA (surrogate)



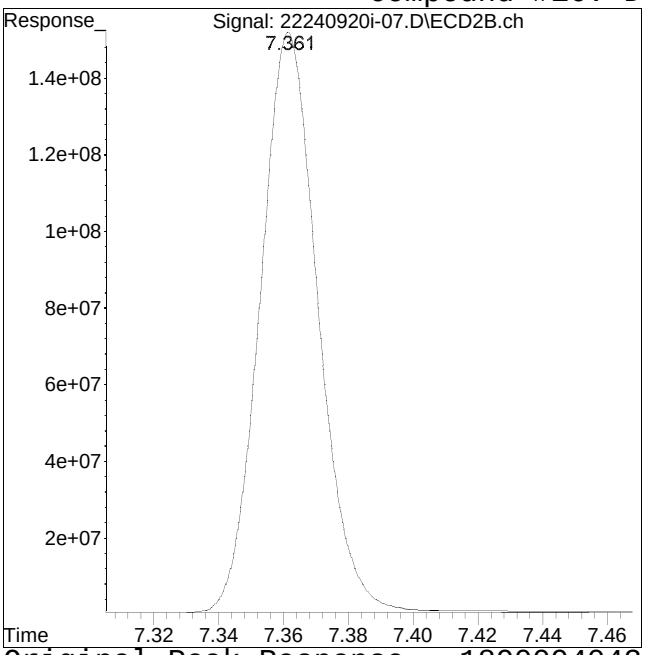


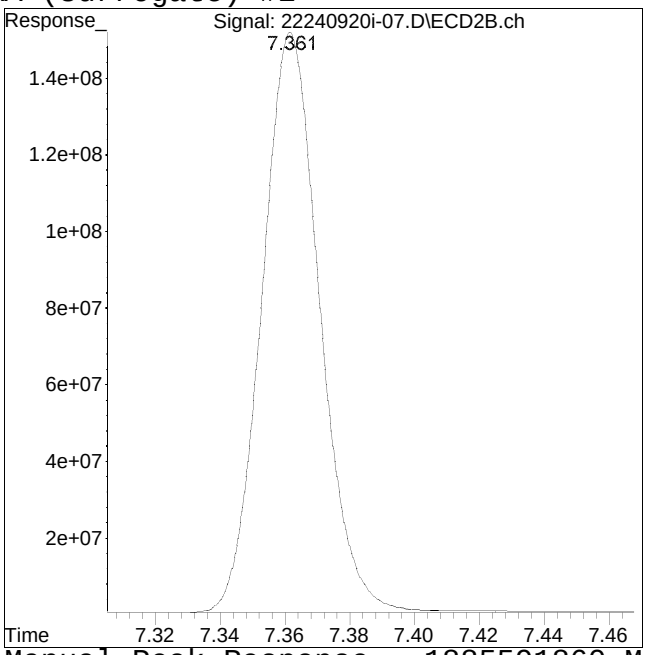
Original Peak Response = 1609715260 Manual Peak Response = 1579764821 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #16: DCAA (surrogate) #2



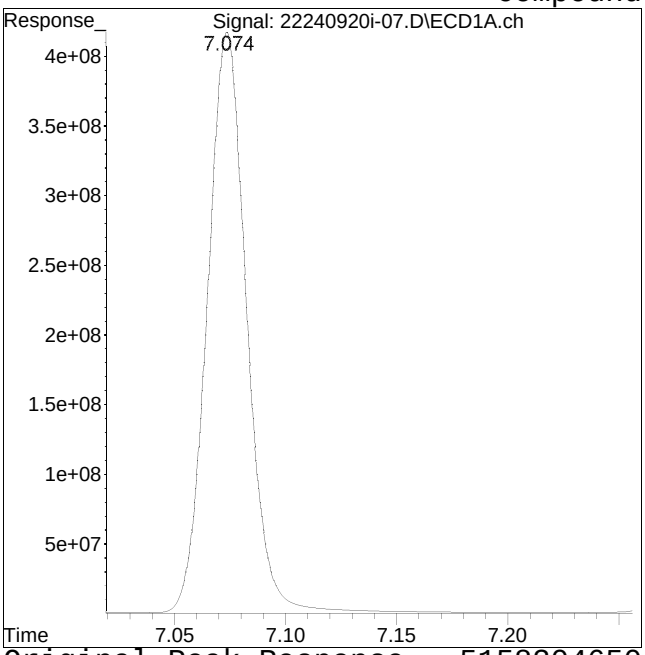


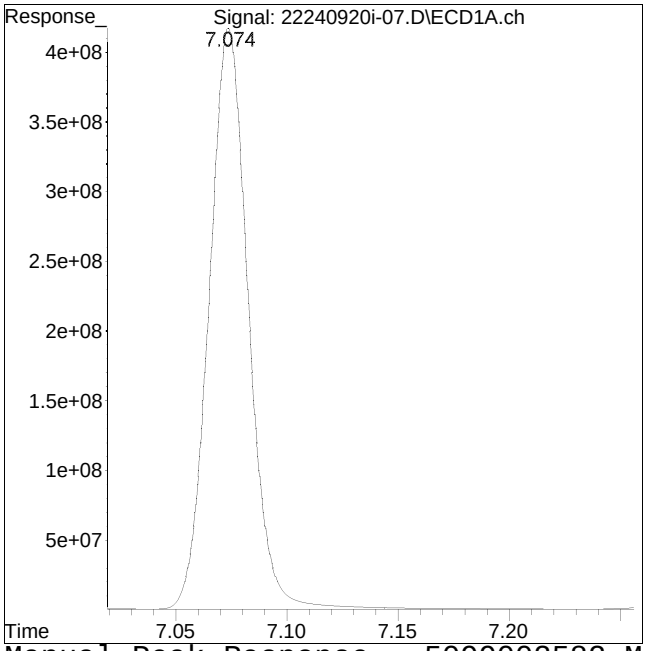
Original Peak Response = 1890094043 Manual Peak Response = 1885591860 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #4: Dicamba



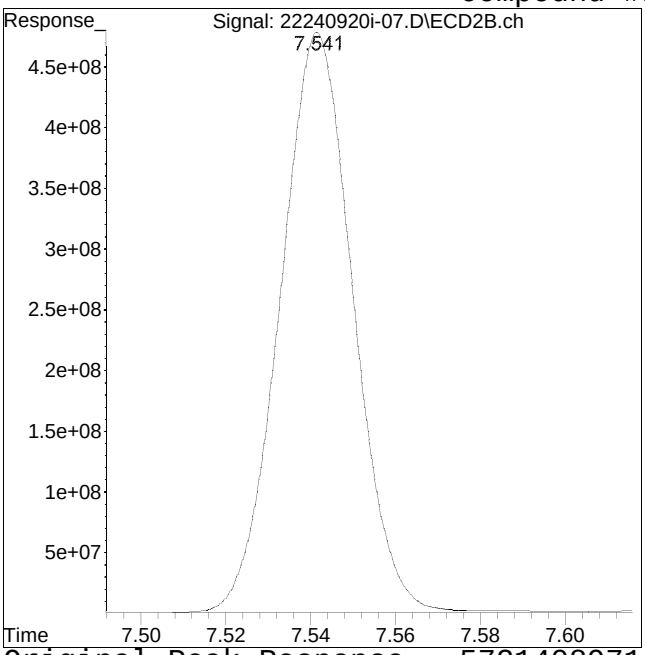


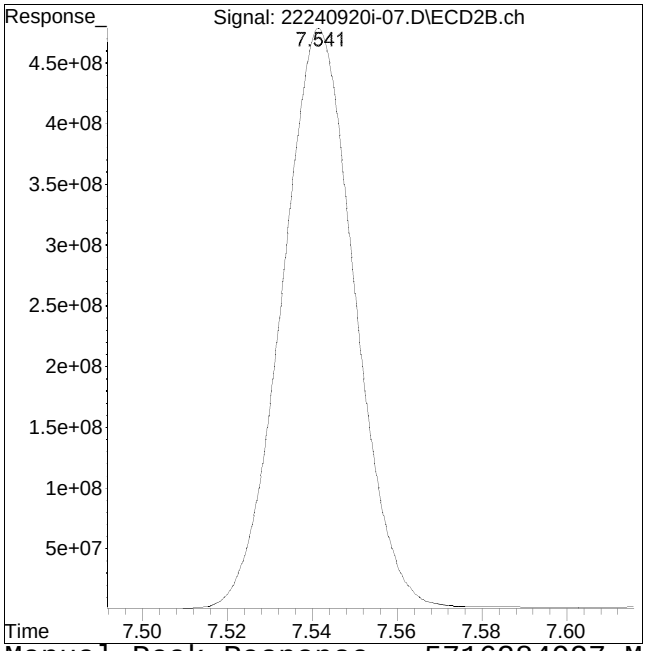
Original Peak Response = 5158304650 Manual Peak Response = 5099002582 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #17: Dicamba #2



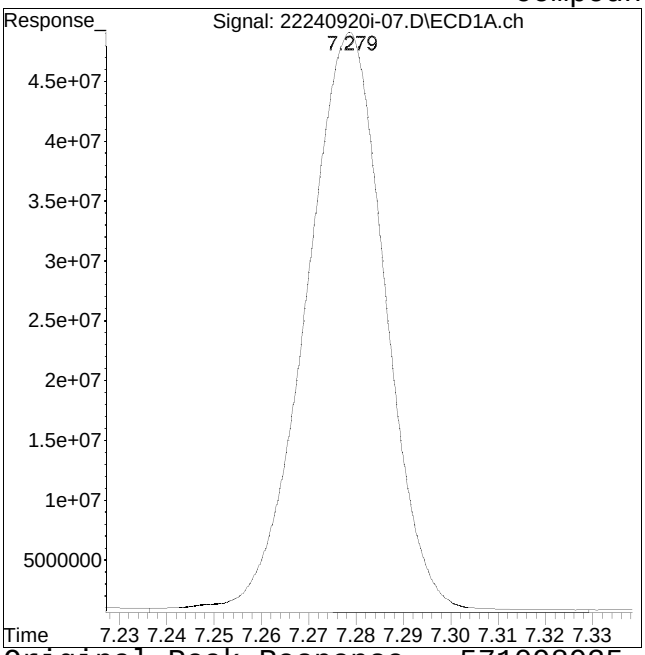


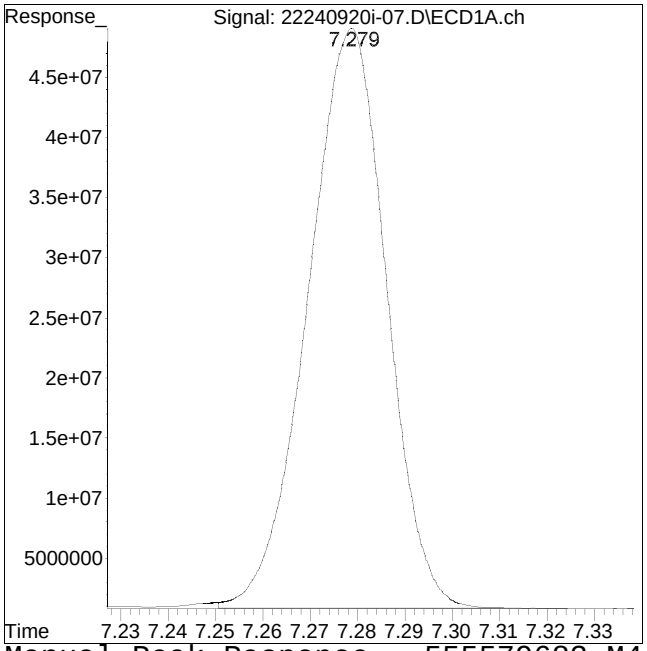
Original Peak Response = 5721408971 Manual Peak Response = 5716284927 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #5: MCPP



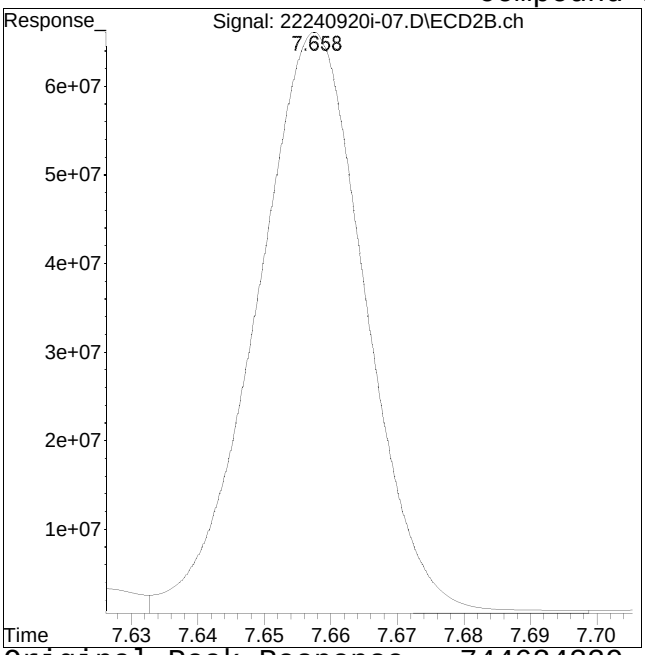


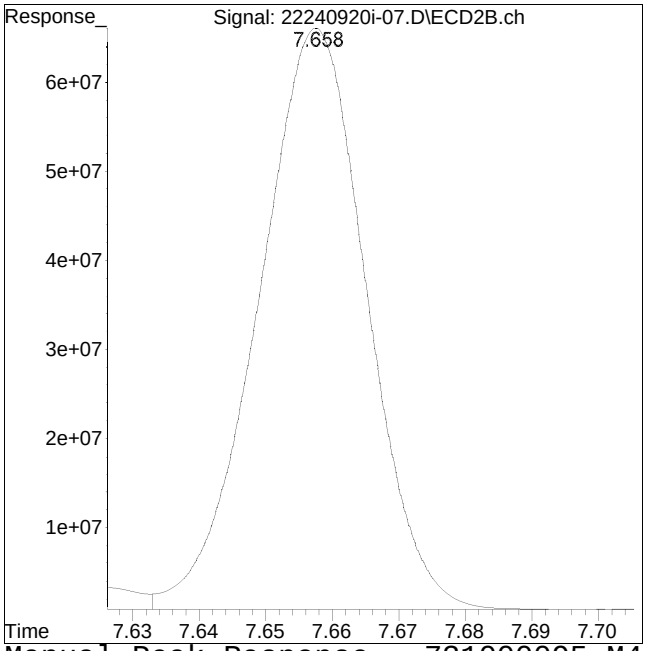
Original Peak Response = 571098935 Manual Peak Response = 555579683 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #18: MCPP #2



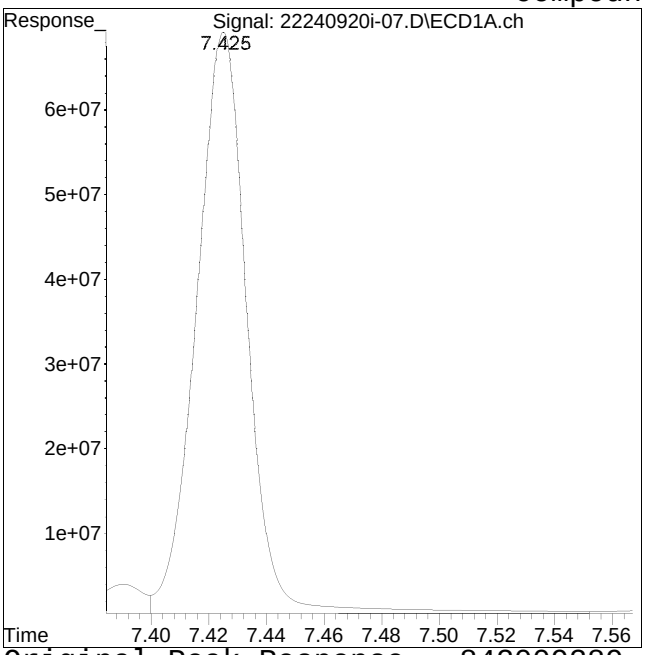


Original Peak Response = 744624339 Manual Peak Response = 731000095 M4
M4 = Poor automated baseline construction.

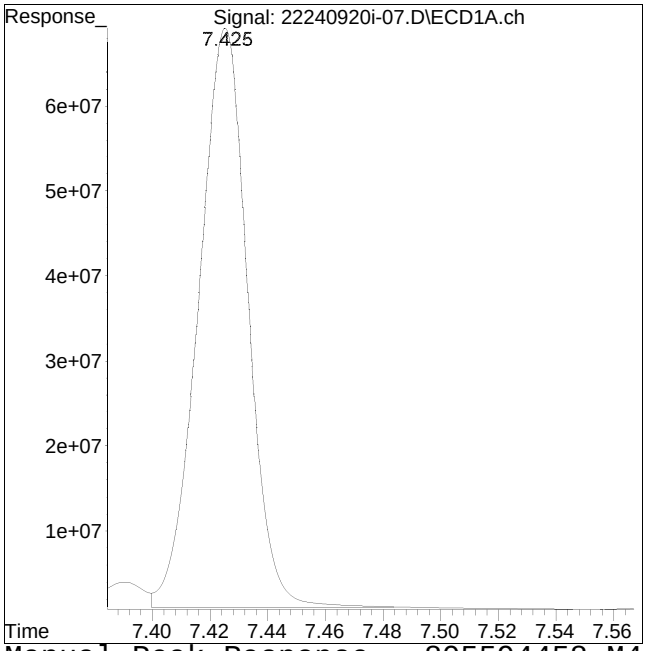
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #6: MCPA



Original Peak Response = 842009389



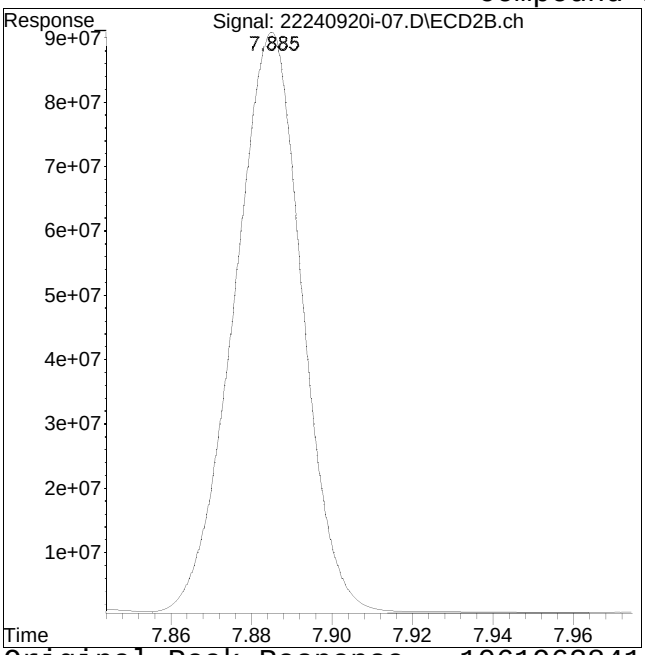
Manual Peak Response = 805594458 M4

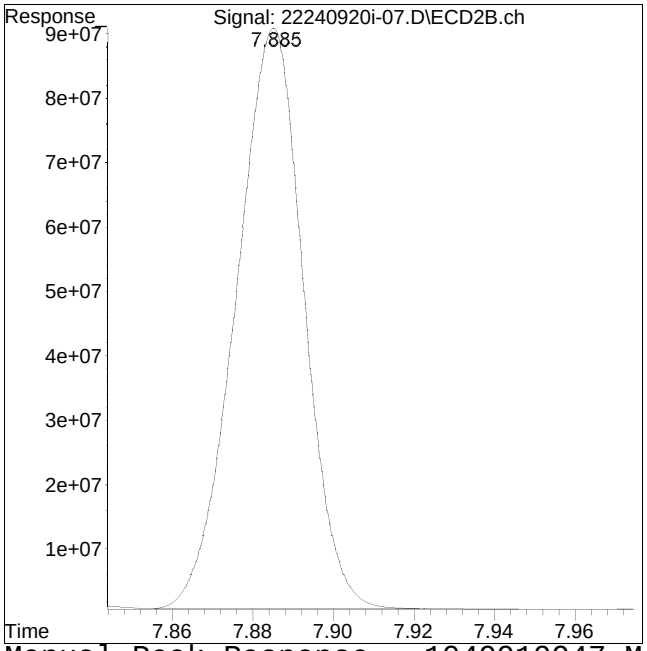
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #19: MCPA #2



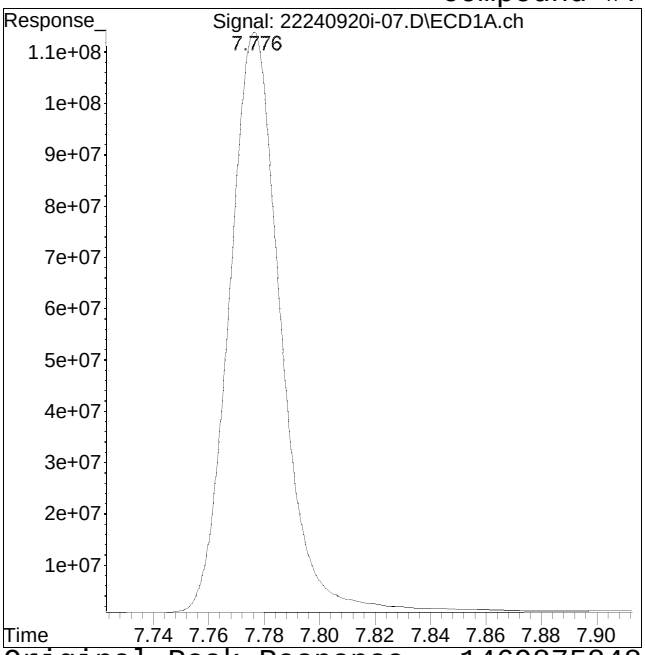


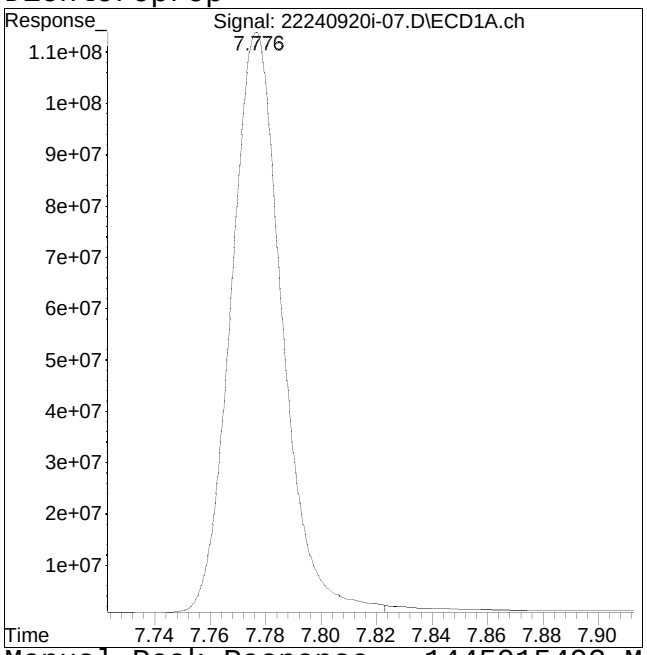
Original Peak Response = 1061963841 Manual Peak Response = 1049919947 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #7: Dichloroprop



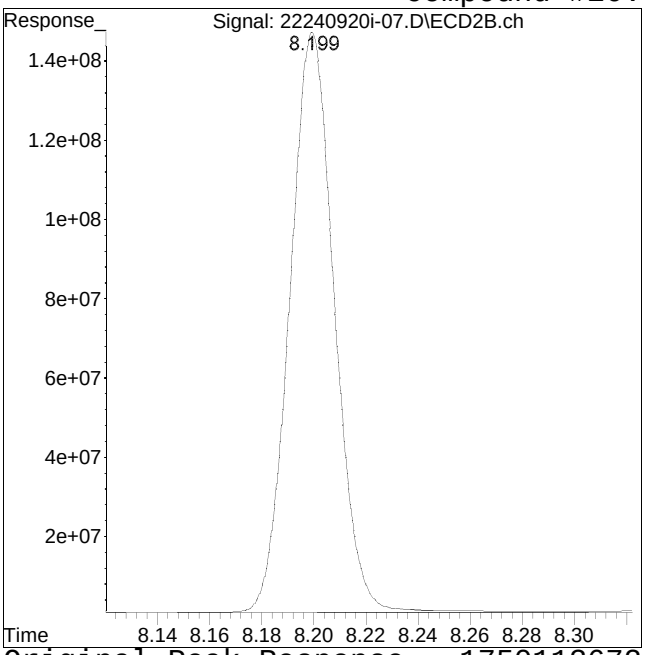


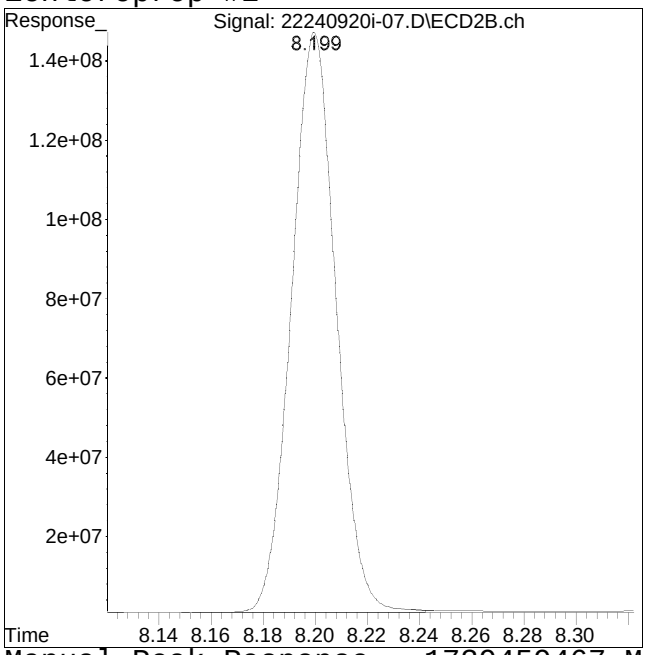
Original Peak Response = 1469875848 Manual Peak Response = 1445015492 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #20: Dichloroprop #2



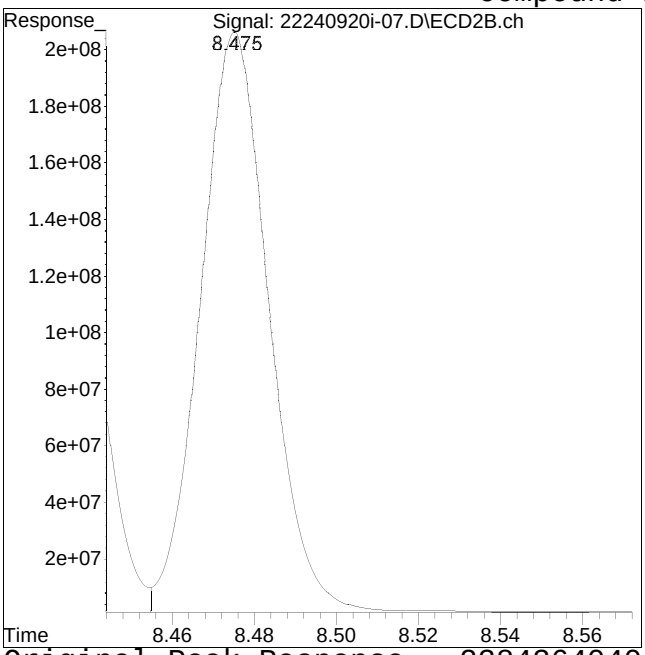


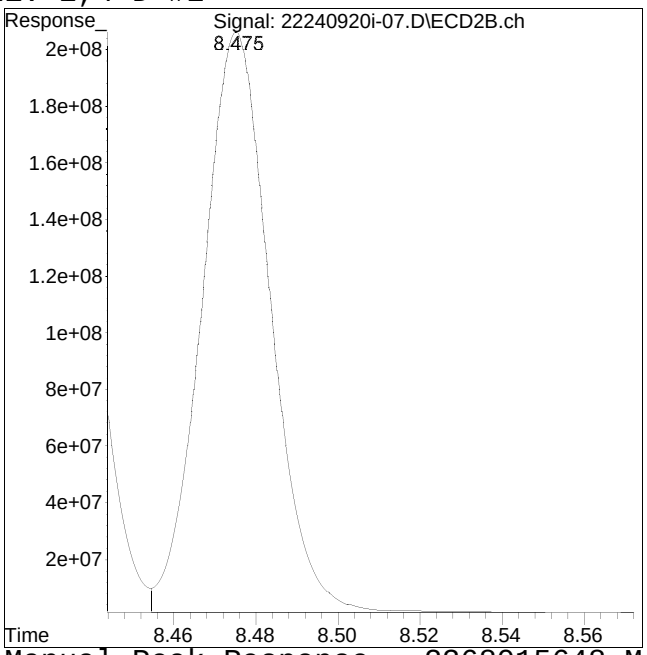
Original Peak Response = 1750113672 Manual Peak Response = 1739459467 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #21: 2,4-D #2



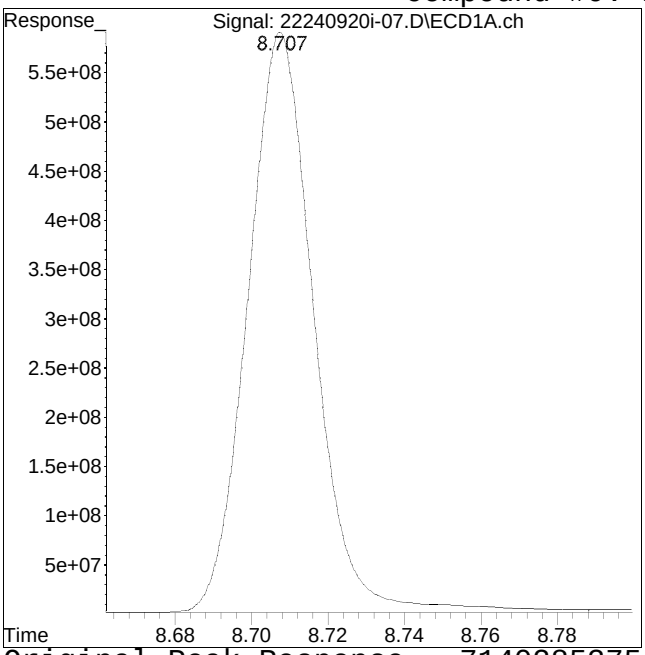


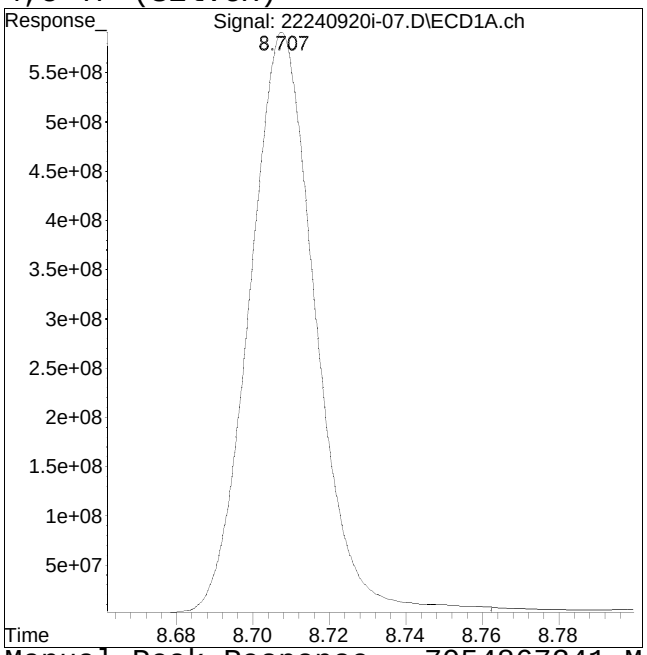
Original Peak Response = 2384364040 Manual Peak Response = 2368015648 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #9: 2,4,5-TP (Silvex)



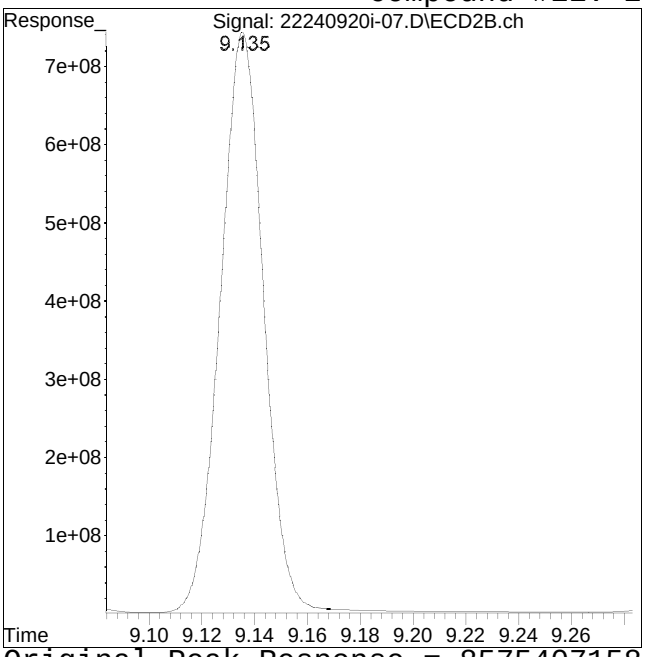


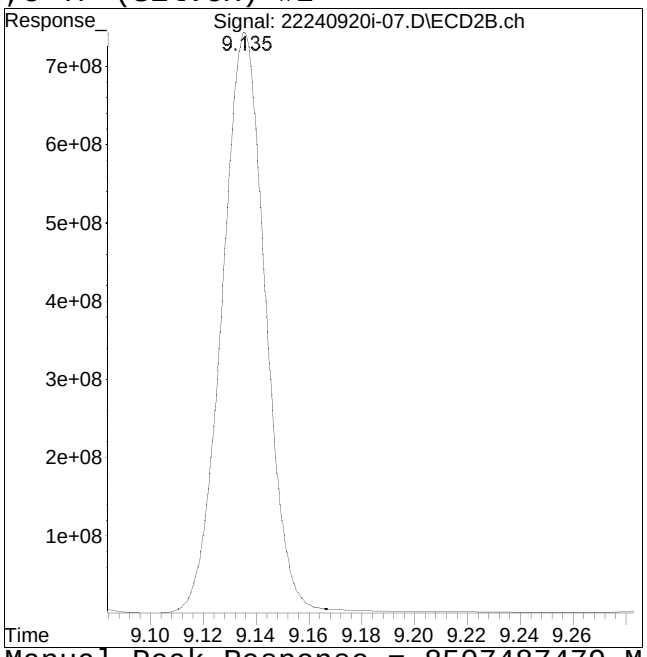
Original Peak Response = 7140285375 Manual Peak Response = 7054867241 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #22: 2,4,5-TP (Silvex) #2



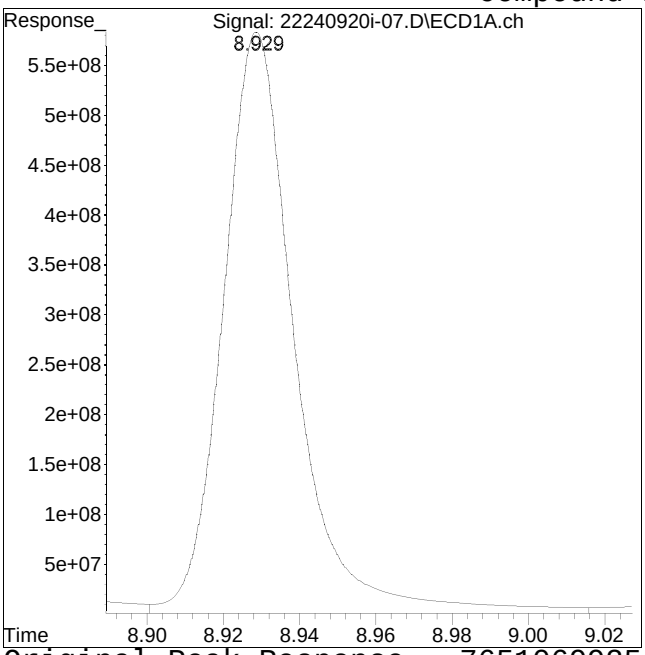


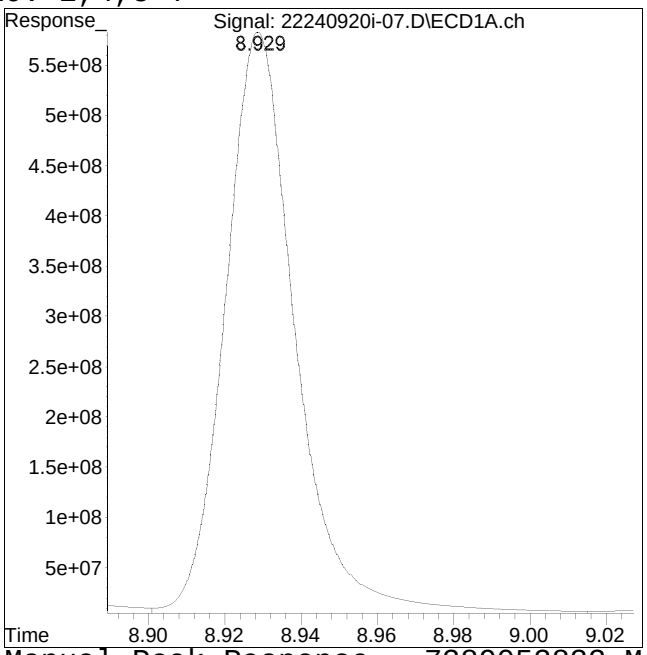
Original Peak Response = 8575407158 Manual Peak Response = 8507487479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #10: 2,4,5-T



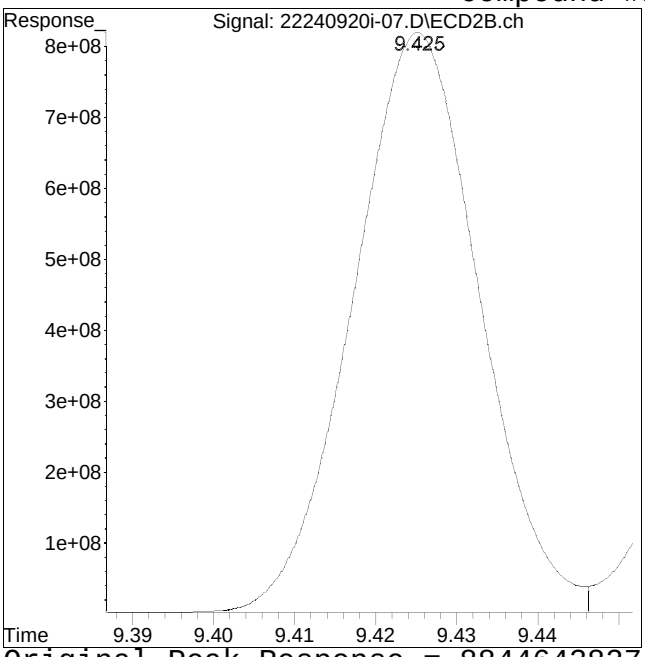


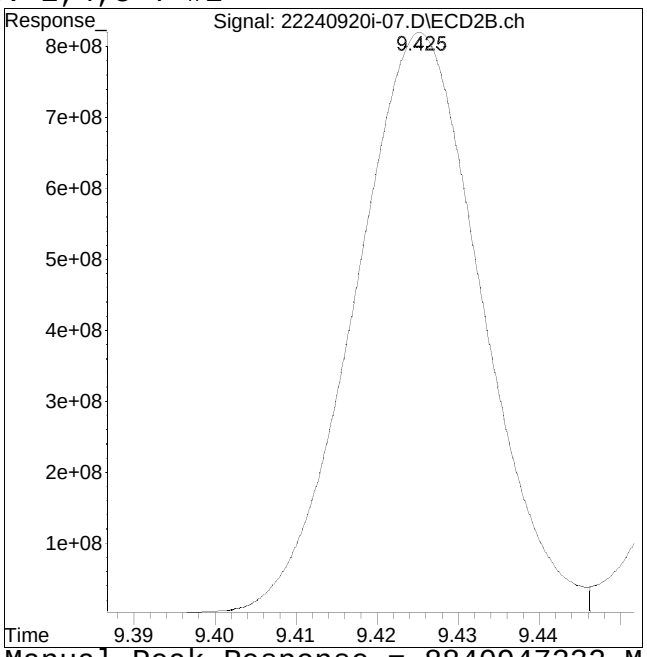
Original Peak Response = 7651069925 Manual Peak Response = 7389053833 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #23: 2,4,5-T #2



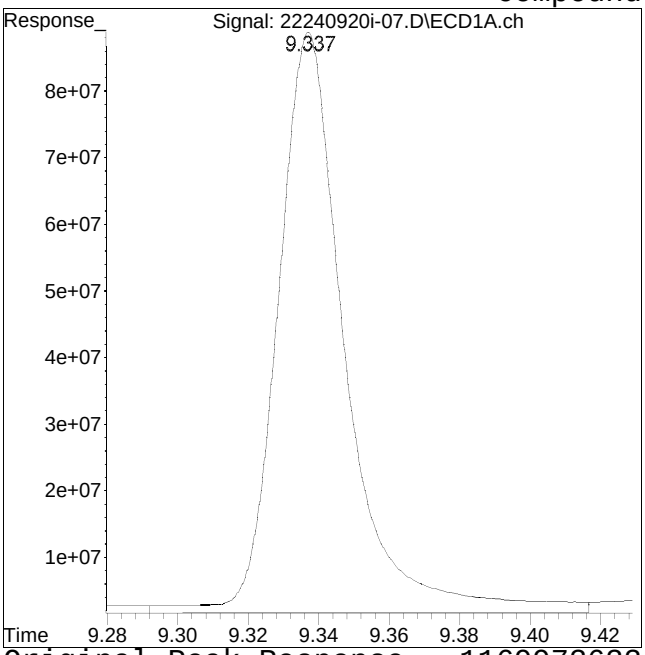


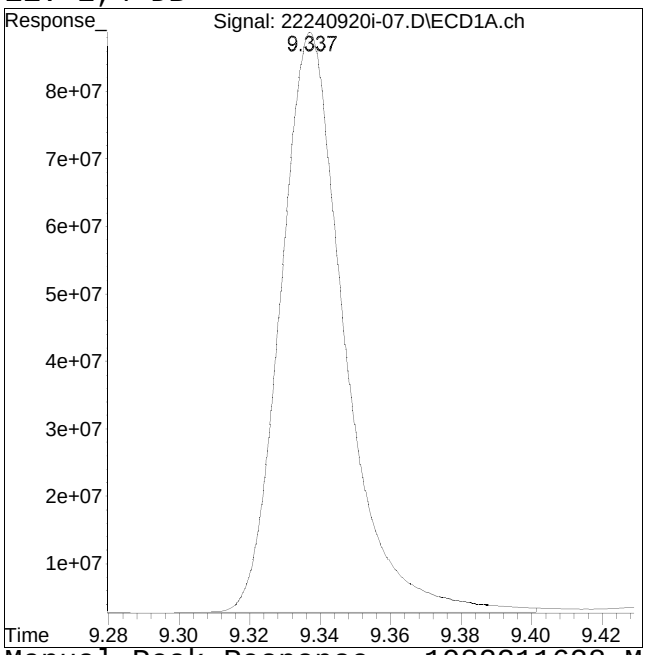
Original Peak Response = 8844643827 Manual Peak Response = 8840947332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #11: 2,4-DB



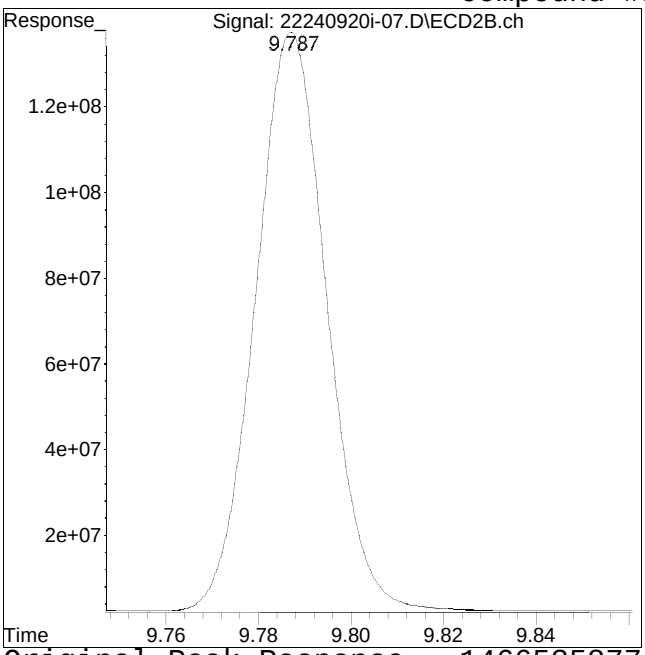


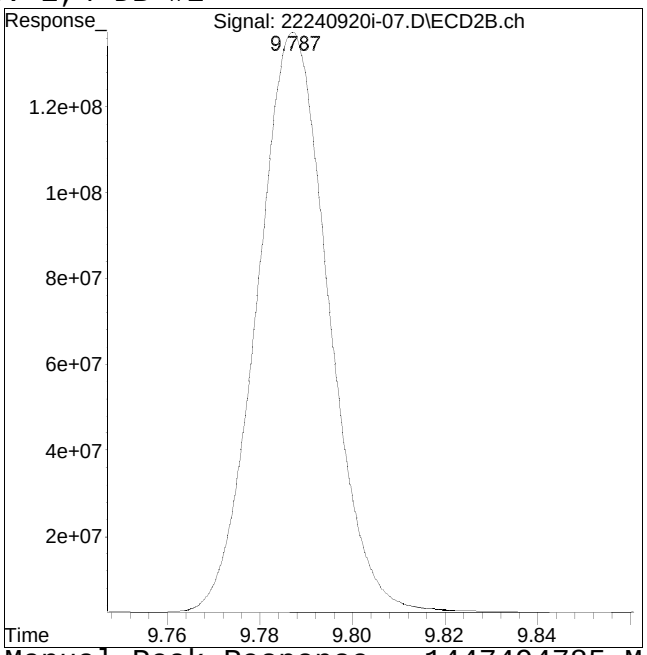
Original Peak Response = 1169973633 Manual Peak Response = 1082211628 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #24: 2,4-DB #2



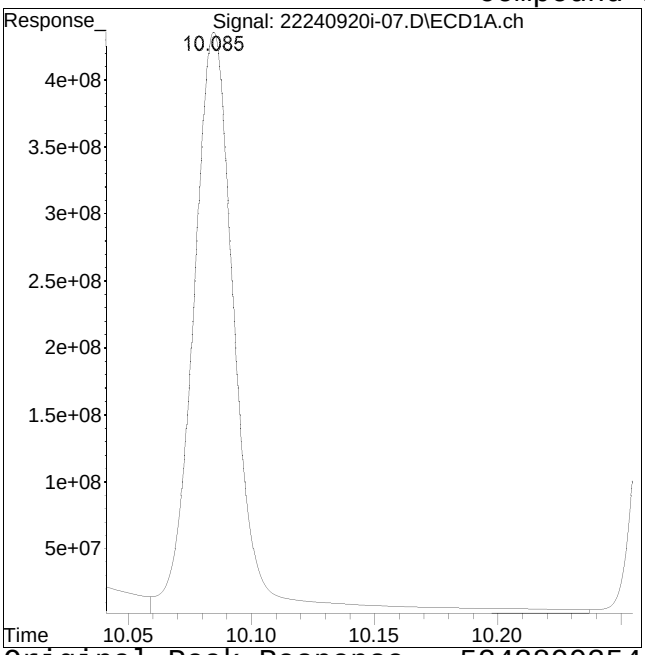


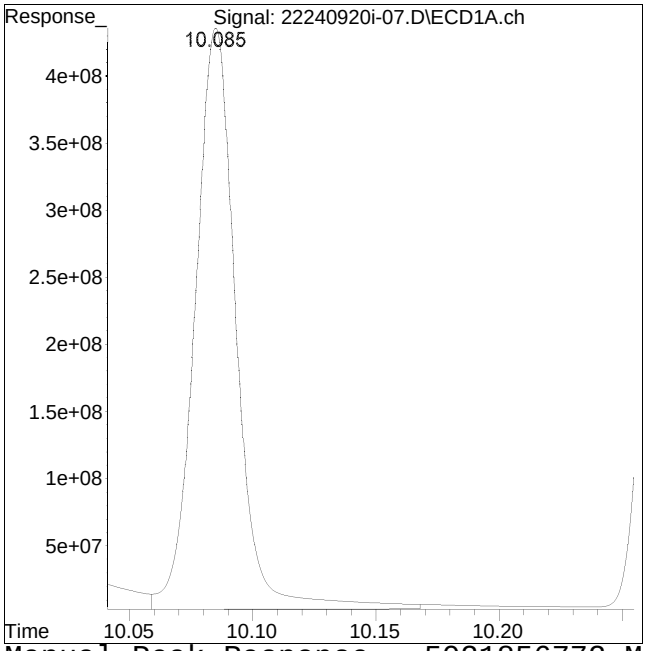
Original Peak Response = 1466535877 Manual Peak Response = 1447494785 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #12: Dinoseb



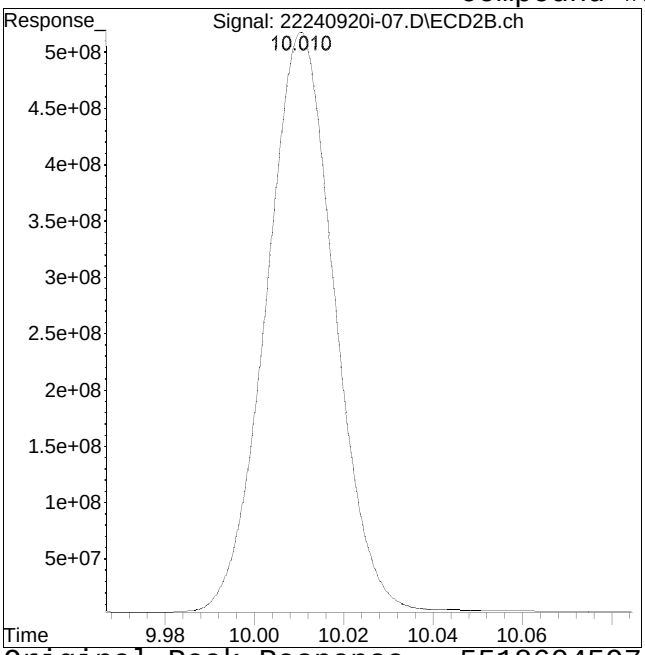


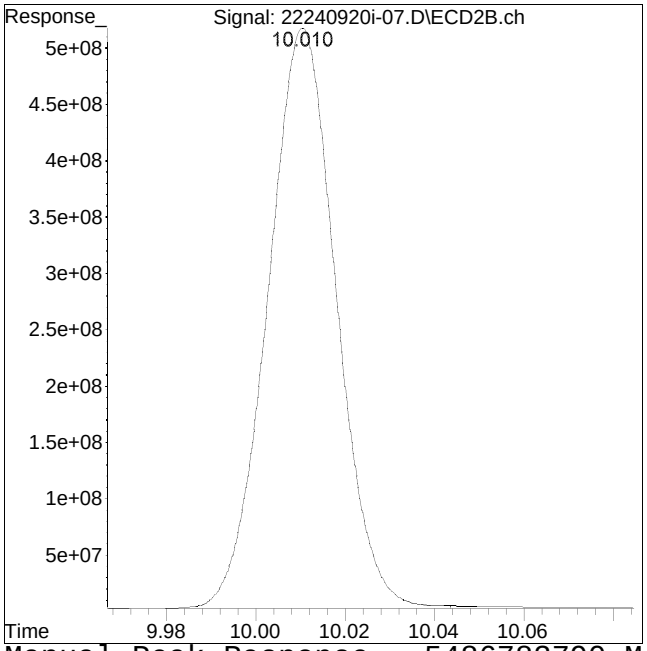
Original Peak Response = 5243899354 Manual Peak Response = 5021856772 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-07.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:15 pm Instrument : Pest22
Sample : il6herb,42e,,pp 11628 L2/2Quant Date : 9/21/2024 8:22 am

Compound #25: Dinoseb #2





Original Peak Response = 5518604597 Manual Peak Response = 5486783790 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample   : cicv,42e,,pp 11634 L0.2/20 ICV
Misc   : WG1975124,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	105	0.00
2	t	Dalapon		0.234	0.193	17.5#	84	0.00
3	s	DCAA (surrogate)		0.184	0.182	1.1	100	0.00
4	t	Dicamba		0.568	0.533	6.2	98	0.00
5	t	MCPP		0.00048	0.00050	-4.2	109	0.00
6	t	MCPA		0.00087	0.00088	-1.1	102	0.00
7	t	Dichloroprop		0.175	0.183	-4.6	107	0.00
8	t	2,4-D		0.213	0.205	3.8	101	0.00
9	t	2,4,5-TP (Silvex)		0.772	0.759	1.7	101	0.00
10	t	2,4,5-T		0.792	0.804	-1.5	106	0.00
11	t	2,4-DB		0.116	0.115	0.9	103	0.00
12	t	Dinoseb		0.590	0.602	-2.0	104	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	105	0.00
2	t	Dalapon		0.202	0.190	5.9	90	0.00
3	s	DCAA (surrogate)		0.189	0.186	1.6	101	0.00
4	t	Dicamba		0.534	0.512	4.1	99	0.00
5	t	MCPP		0.00053	0.00053	0.0	106	0.00
6	t	MCPA		0.00095	0.00093	2.1	101	0.00
7	t	Dichloroprop		0.173	0.184	-6.4	108	0.00
8	t	2,4-D		0.222	0.217	2.3	101	0.00
9	t	2,4,5-TP (Silvex)		0.776	0.762	1.8	100	0.00
10	t	2,4,5-T		0.768	0.760	1.0	102	0.00
11	t	2,4-DB		0.126	0.122	3.2	100	0.00
12	t	Dinoseb		0.490	0.500	-2.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample   : cicv,42e,,pp 11634 L0.2/20 ICV
Misc   : WG1975124,
ALS Vial : 8   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

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* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1975124,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.435	8.434	1387.4E6	1712.5E6	0.250M3	0.250M4
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.898	7.363	189.4E6	239.0E6	0.185M4	0.184M4
		Spiked Amount	0.500	Range 30 - 150		Recovery =	37.00%	36.80%
		Target Compounds						
2)	t	Dalapon	2.323	2.319	195.2E6	237.3E6	0.151M3	0.172M4
4)	t	Dicamba	7.074	7.541	556.4E6	659.8E6	0.177M4	0.181M3
5)	t	MCPP	7.274	7.654	52572878	68048496	19.591M4	18.916M4
6)	t	MCPA	7.421	7.880	90927411	118.5E6	18.833M4	18.150M4
7)	t	Dichloroprop	7.780	8.200	191.4E6	236.7E6	0.197M4	0.200M3
8)	t	2,4-D	8.001	8.477	213.4E6	279.6E6	0.181M3	0.184M4
9)	t	2,4,5-TP (Si	8.711	9.135	800.6E6	991.2E6	0.187M4	0.187M4
10)	t	2,4,5-T	8.939	9.426	848.2E6	989.7E6	0.193M4	0.188M4
11)	t	2,4-DB	9.349	9.788	122.7E6	160.1E6	0.191M4	0.186M4
12)	t	Dinoseb	10.085	10.010	634.3E6	650.9E6	0.194M4	0.194M4

SemiQuant Compounds - Not Calibrated on this Instrument

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1975124,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

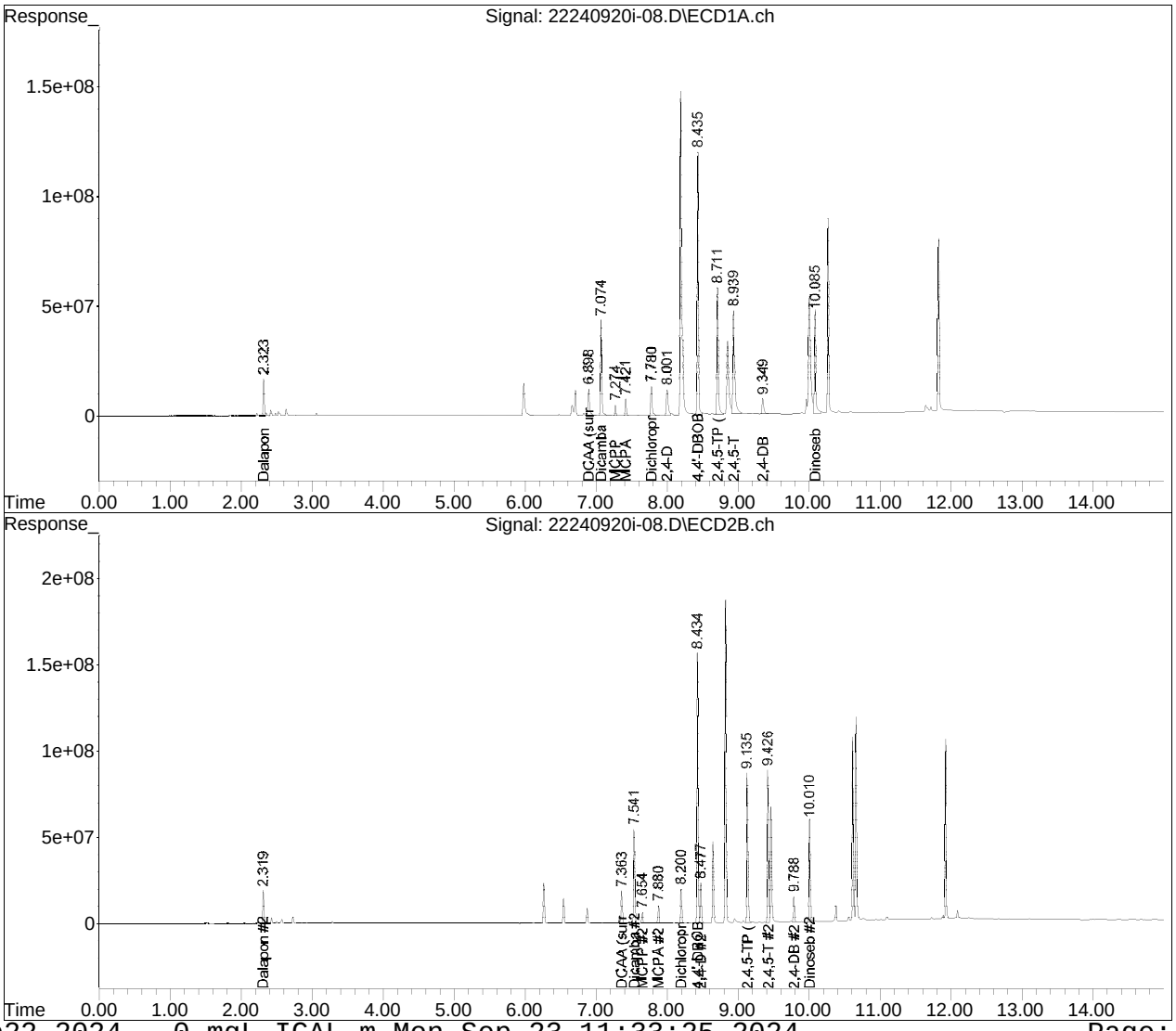
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240920ical\
Data File : 22240920i-08.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Sep 2024 01:34 pm
Operator : pest22:akm
Sample : cicv,42e,,pp 11634 L0.2/20 ICV
Misc : WG1975124,
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 23 11:28:26 2024
Quant Method : I:\PEST\Pest22\2024\240920ical\Herb22_2024_09_20_mgL_ICAL.m
Quant Title : herb
QLast Update : Mon Sep 23 11:28:26 2024
Response via : Initial Calibration
Integrator: ChemStation

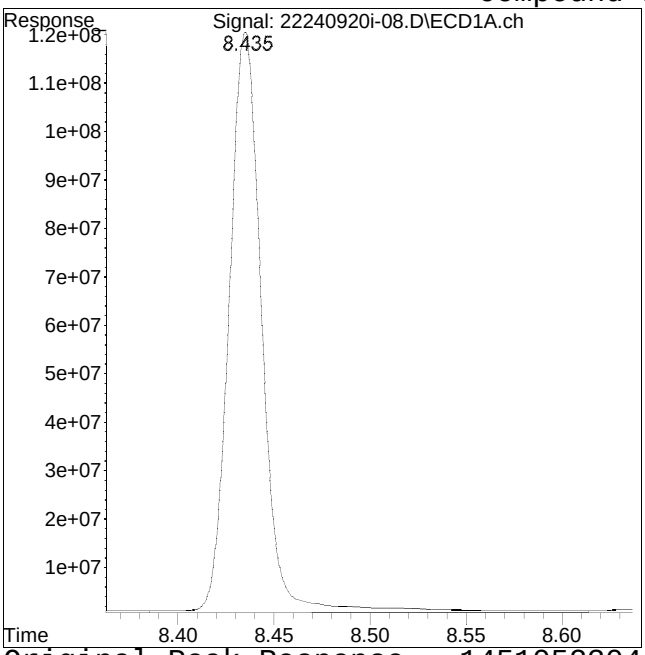
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

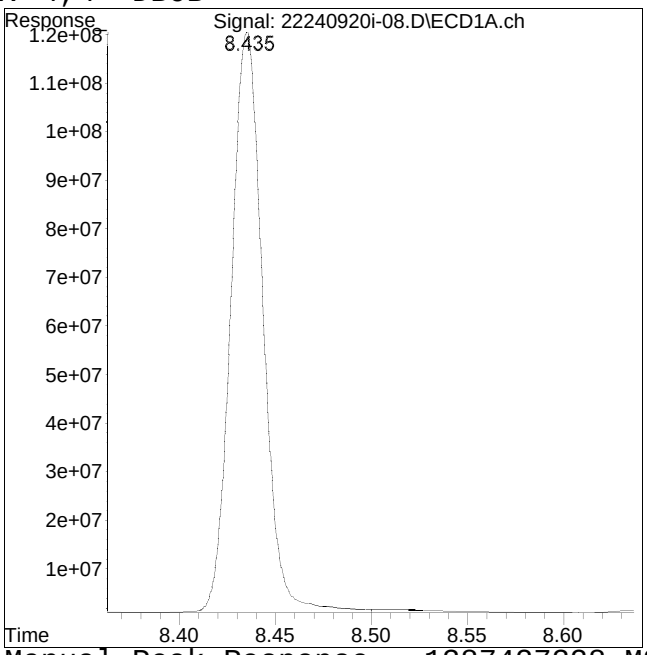


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #1: 4,4'-DBOB



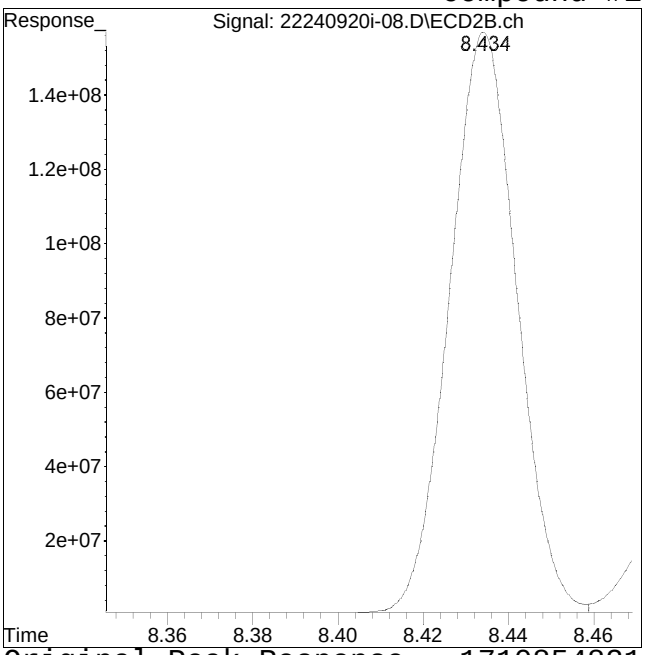


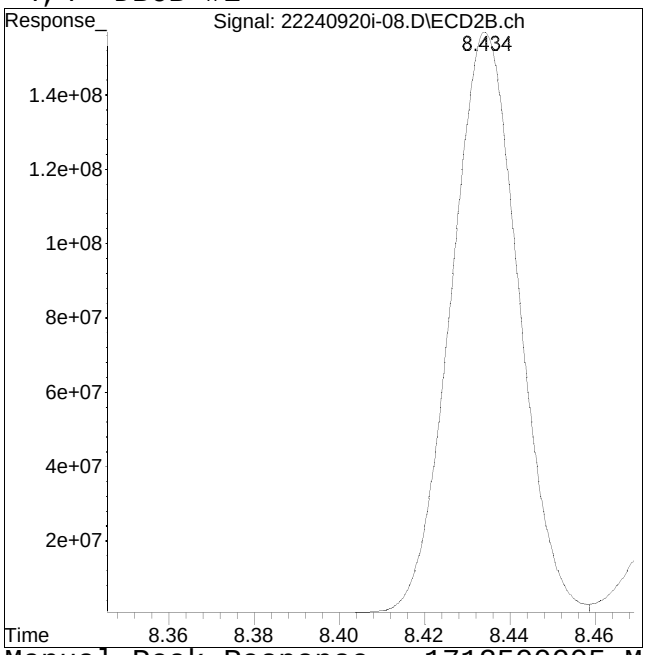
Original Peak Response = 1451052304 Manual Peak Response = 1387427328 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #14: 4,4'-DBOB #2



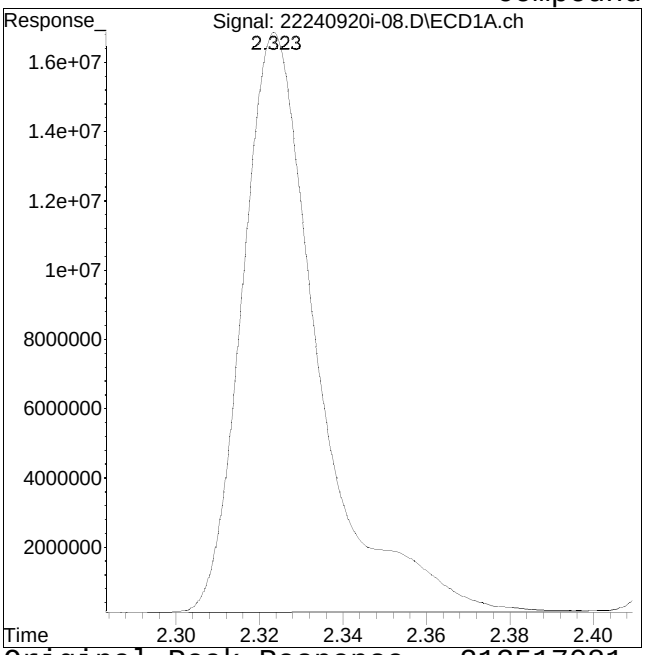


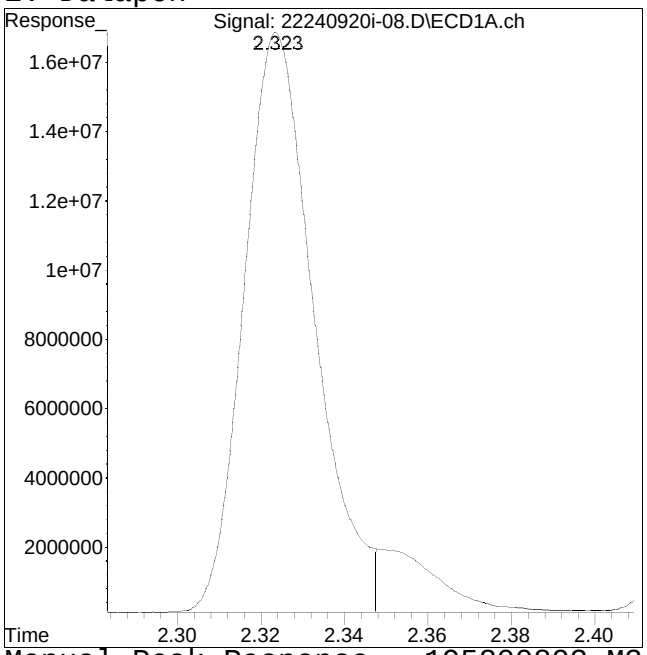
Original Peak Response = 1710854821 Manual Peak Response = 1712500005 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #2: Dalapon



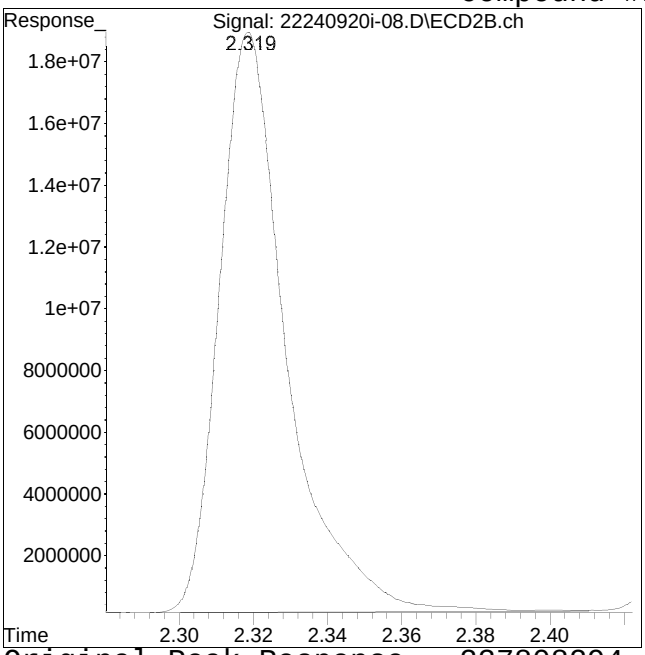


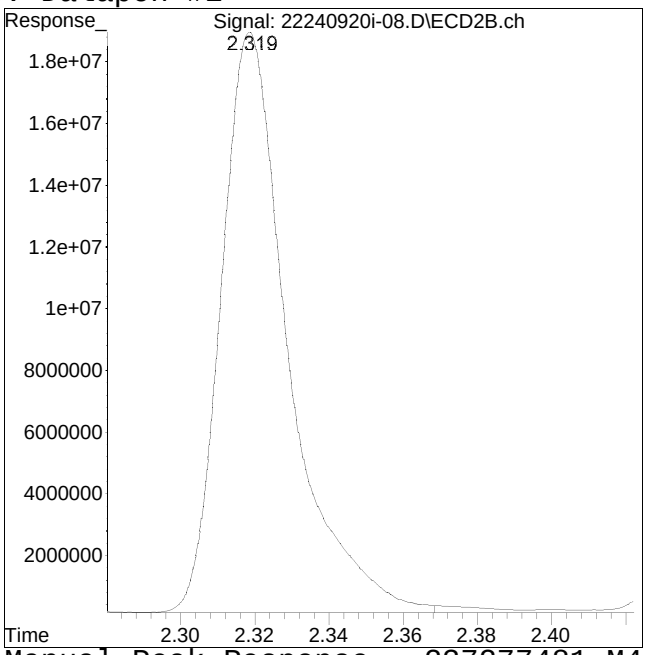
Original Peak Response = 213517081 Manual Peak Response = 195200893 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #15: Dalapon #2



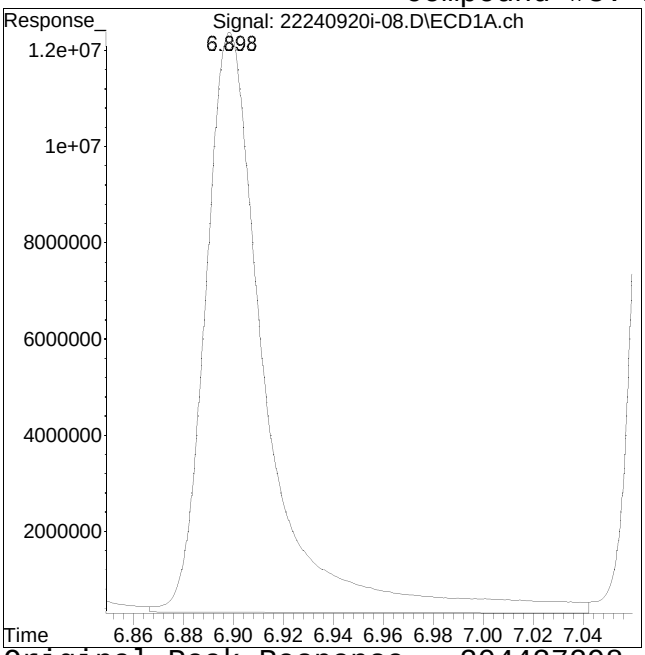


Original Peak Response = 237808294 Manual Peak Response = 237277481 M4
M4 = Poor automated baseline construction.

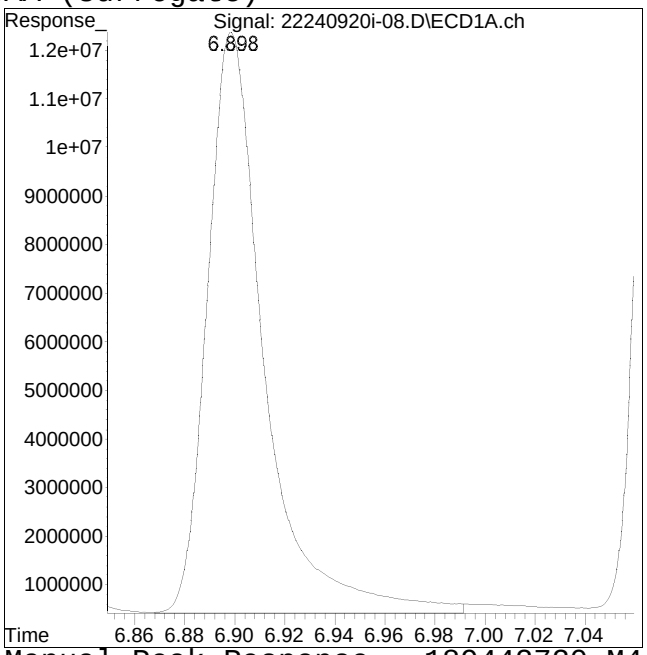
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #3: DCAA (surrogate)



Original Peak Response = 204437298



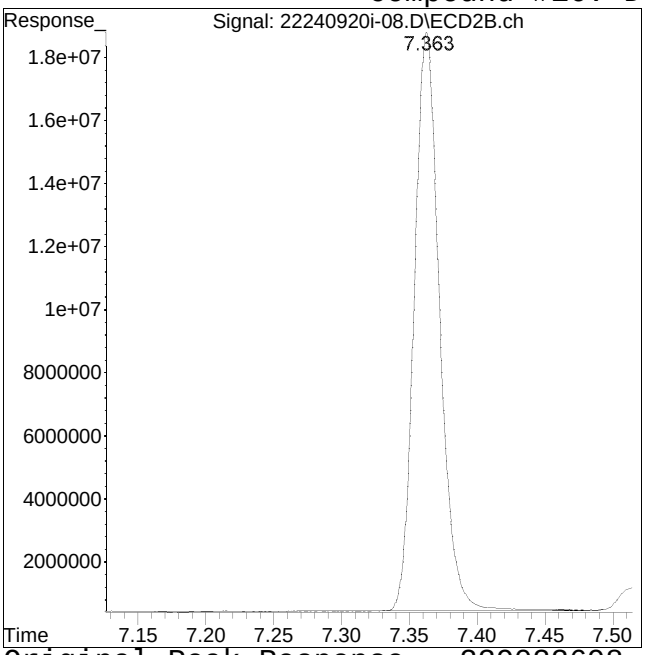
Manual Peak Response = 189442720 M4

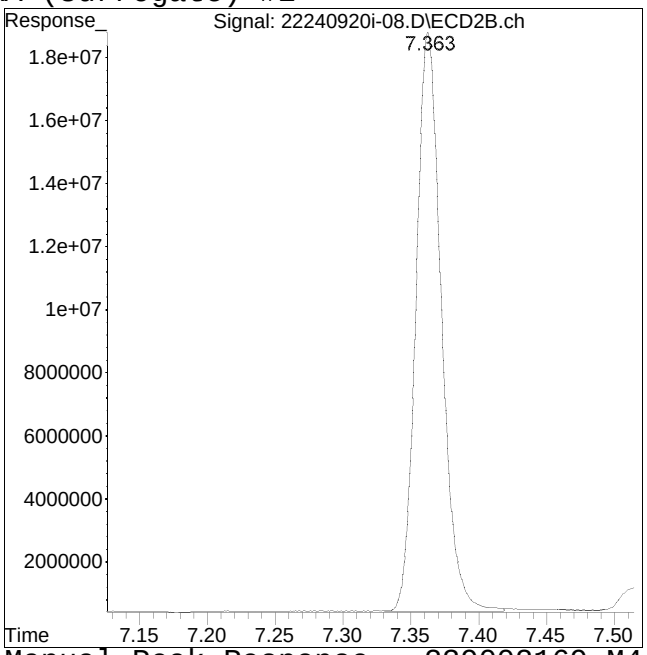
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #16: DCAA (surrogate) #2



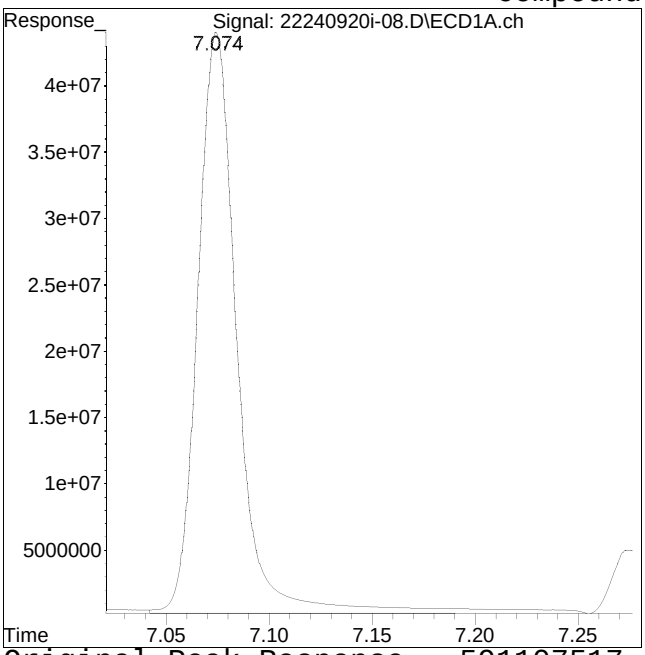


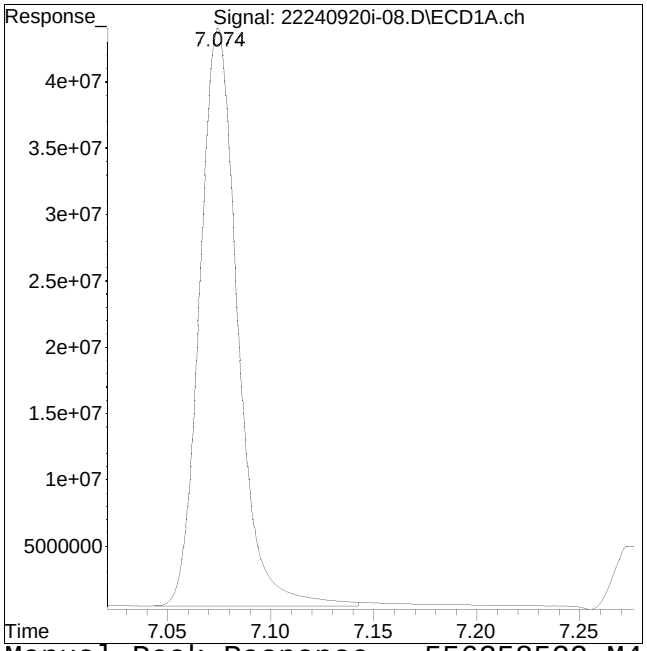
Original Peak Response = 239022698 Manual Peak Response = 239002169 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #4: Dicamba



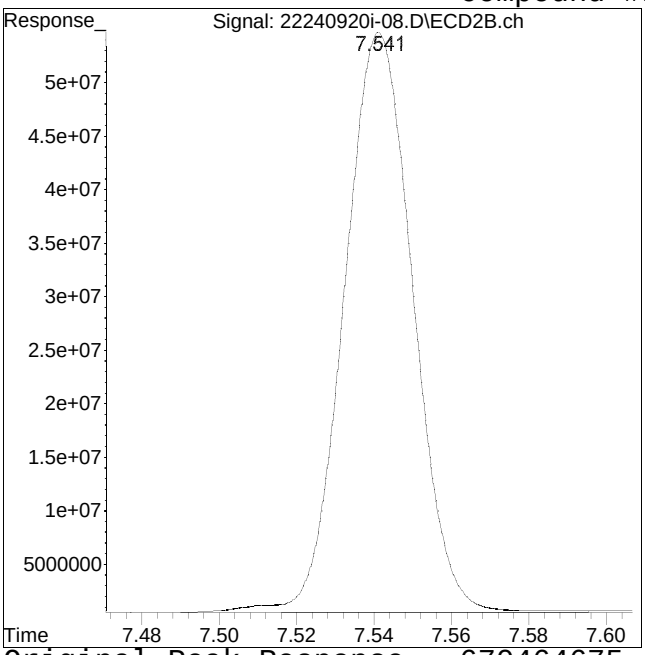


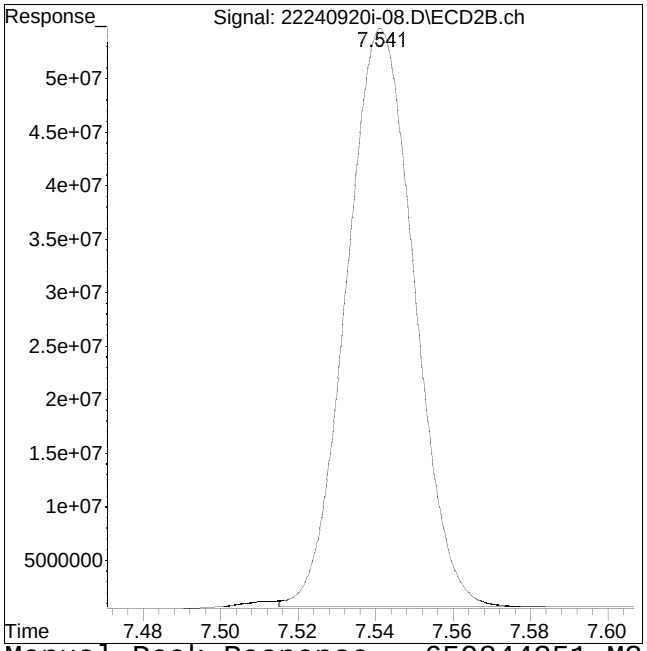
Original Peak Response = 591107517 Manual Peak Response = 556358522 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #17: Dicamba #2



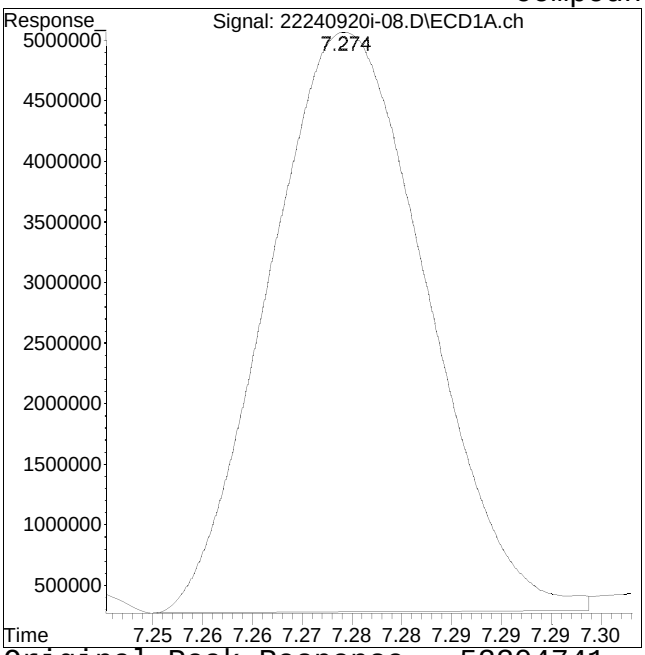


Original Peak Response = 670464675 Manual Peak Response = 659844351 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

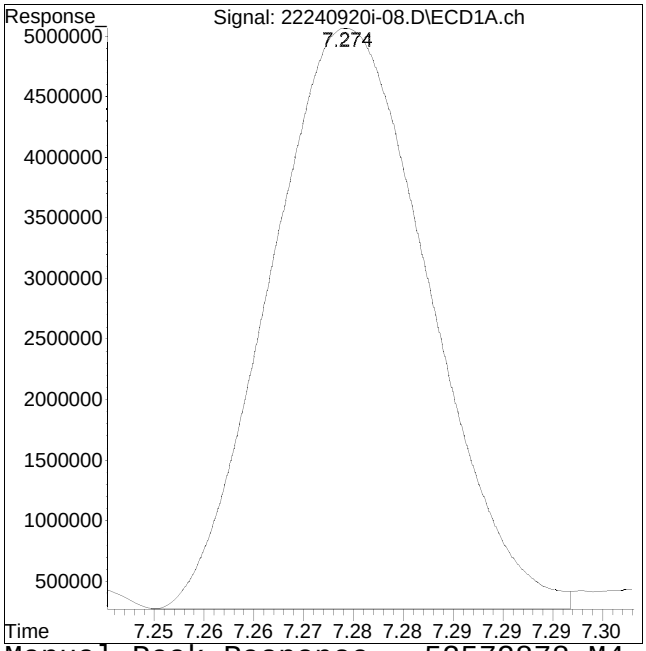
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #5: MCPP



Original Peak Response = 52304741



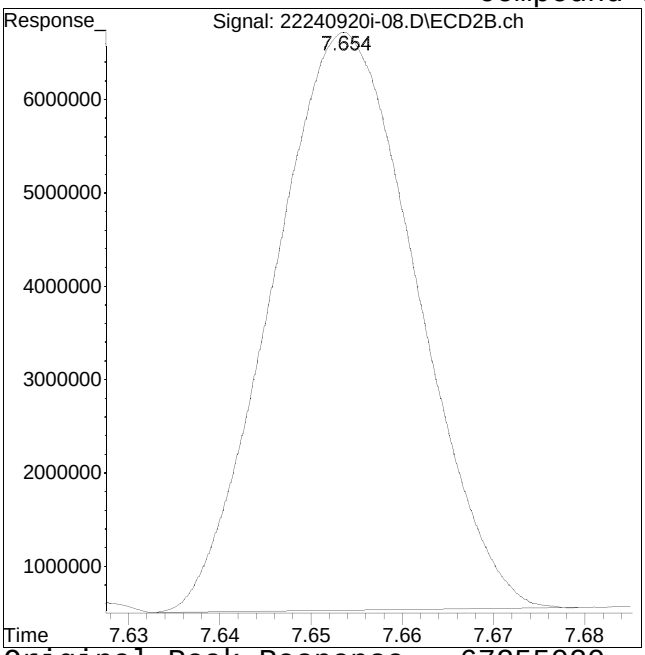
Manual Peak Response = 52572878 M4

M4 = Poor automated baseline construction.

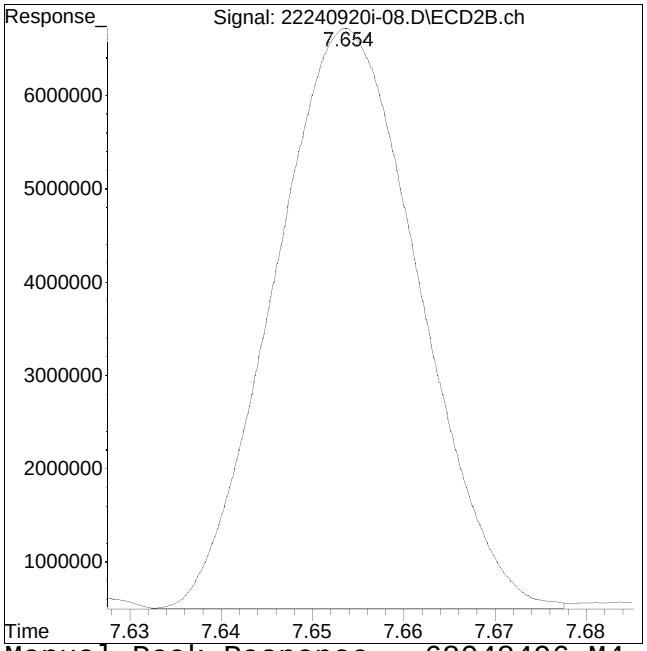
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #18: MCPP #2



Original Peak Response = 67255020



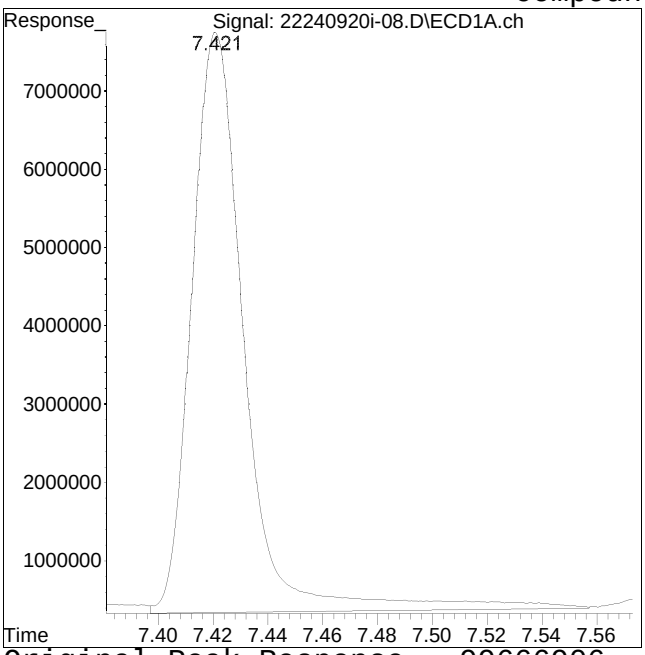
Manual Peak Response = 68048496 M4

M4 = Poor automated baseline construction.

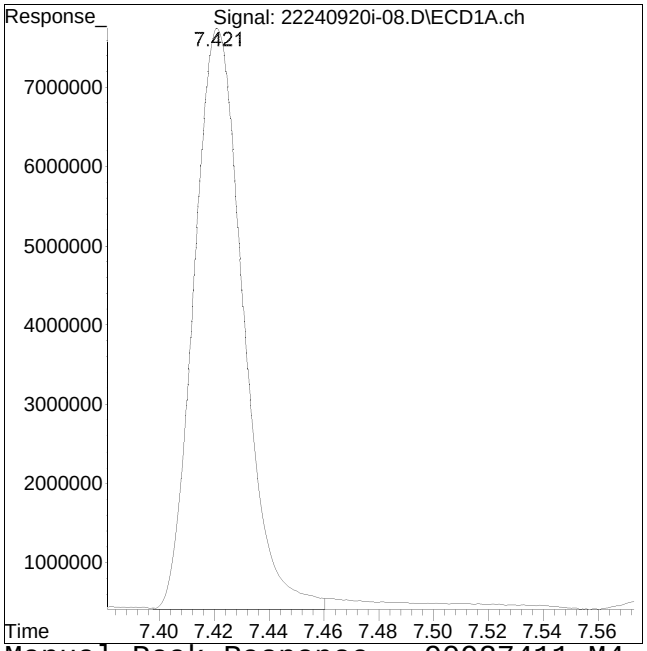
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #6: MCPA



Original Peak Response = 99666906



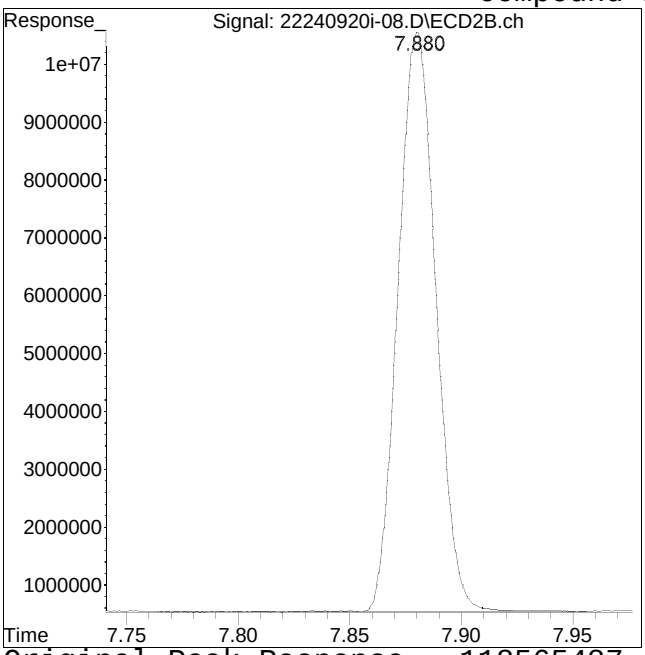
Manual Peak Response = 90927411 M4

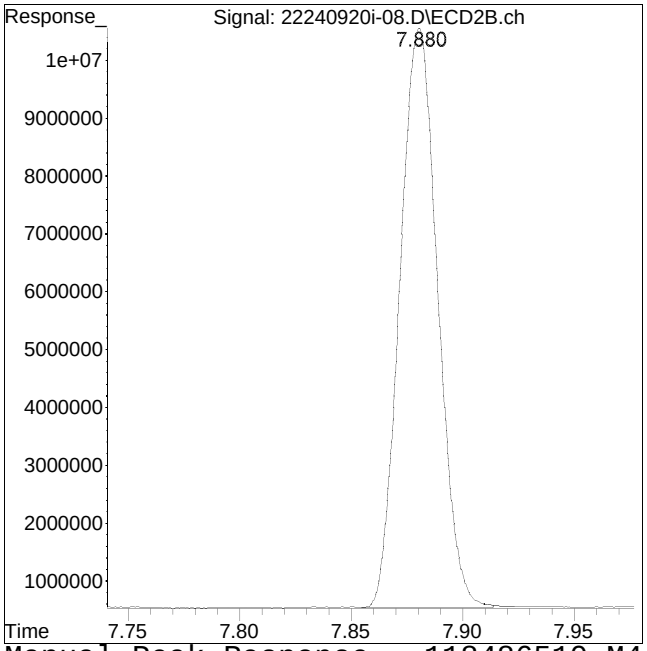
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #19: MCPA #2



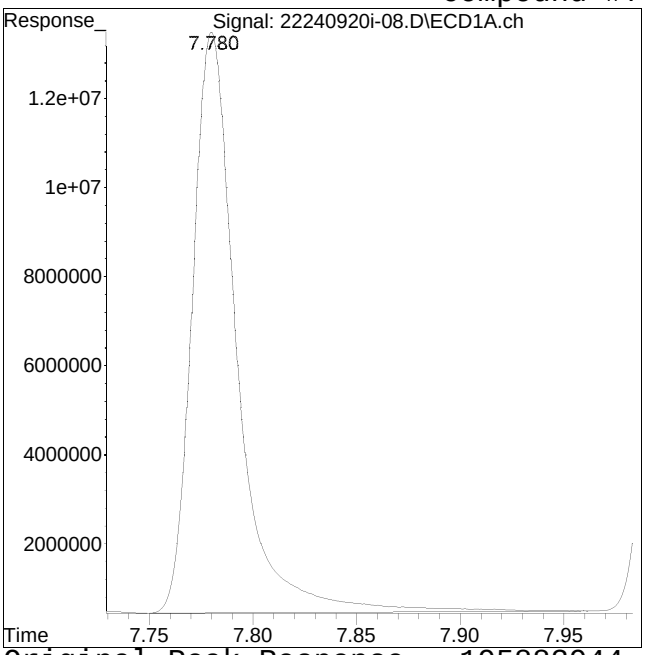


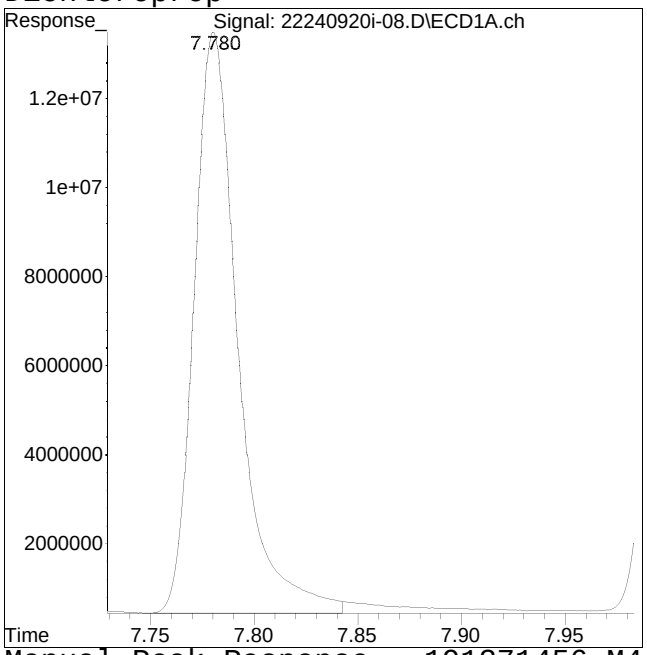
Original Peak Response = 118565487 Manual Peak Response = 118486510 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #7: Dichloroprop



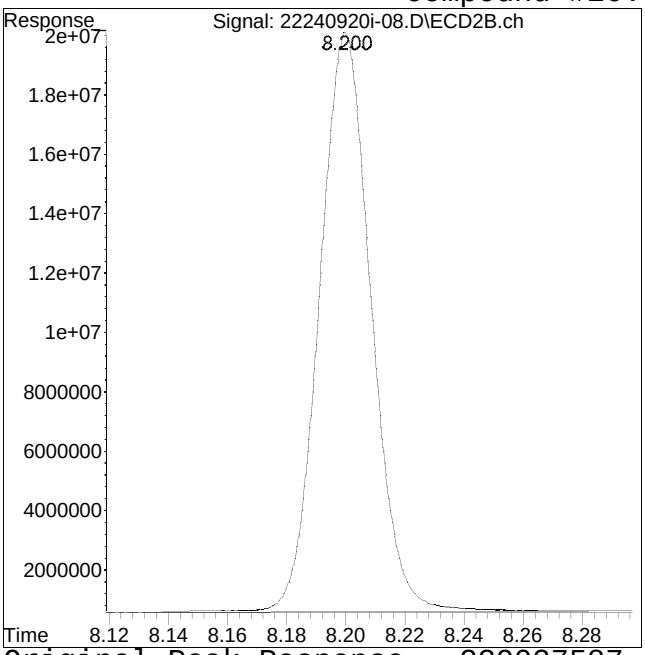


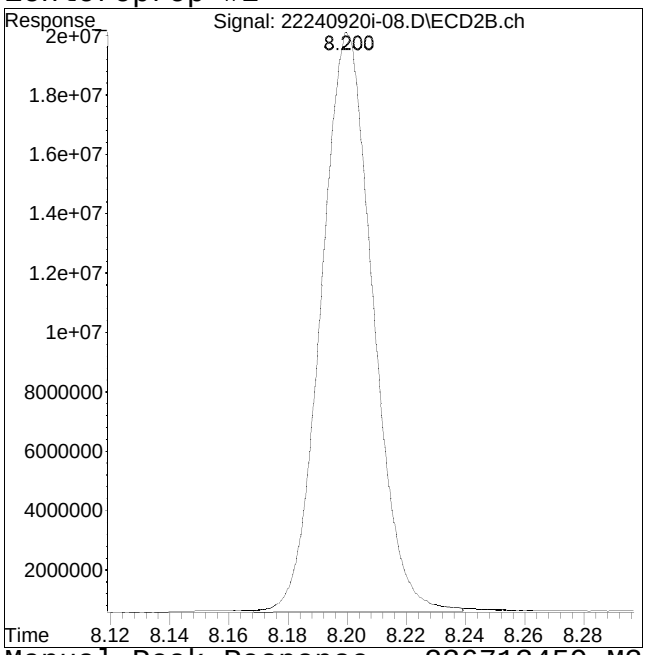
Original Peak Response = 195883944 Manual Peak Response = 191371456 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #20: Dichloroprop #2



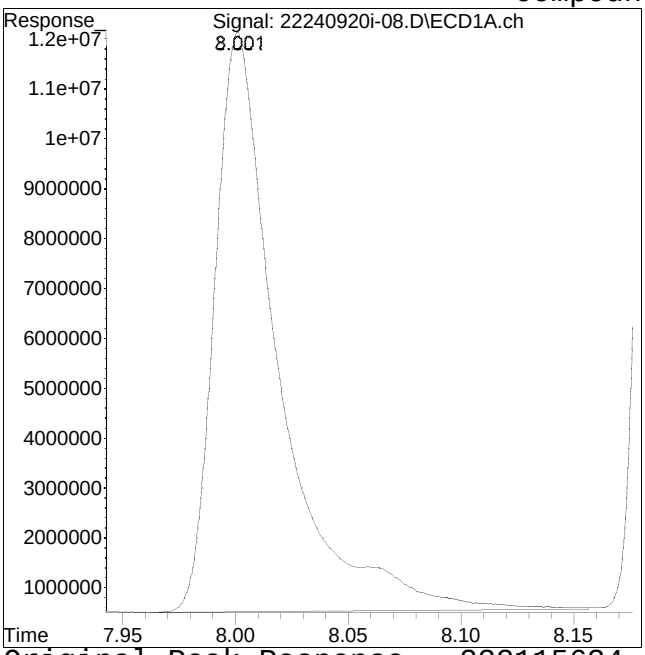


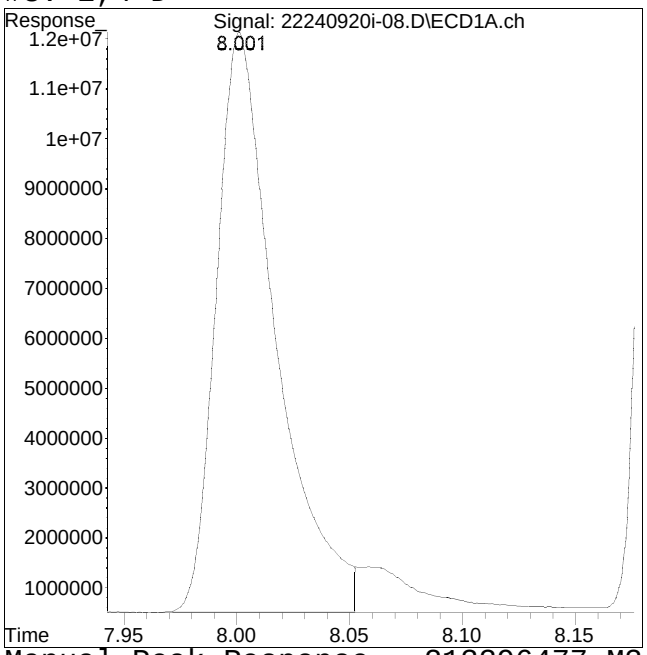
Original Peak Response = 239027587 Manual Peak Response = 236713459 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #8: 2,4-D



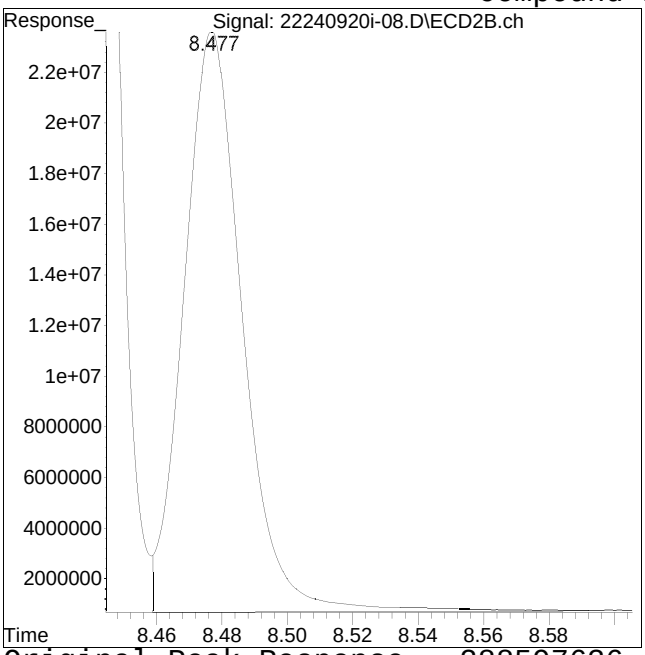


Original Peak Response = 232115634 Manual Peak Response = 213396477 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

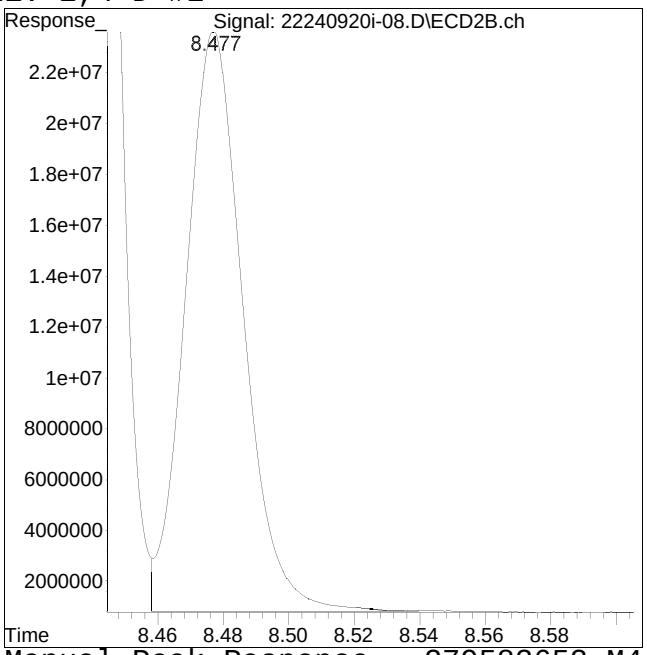
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #21: 2,4-D #2



Original Peak Response = 288597636



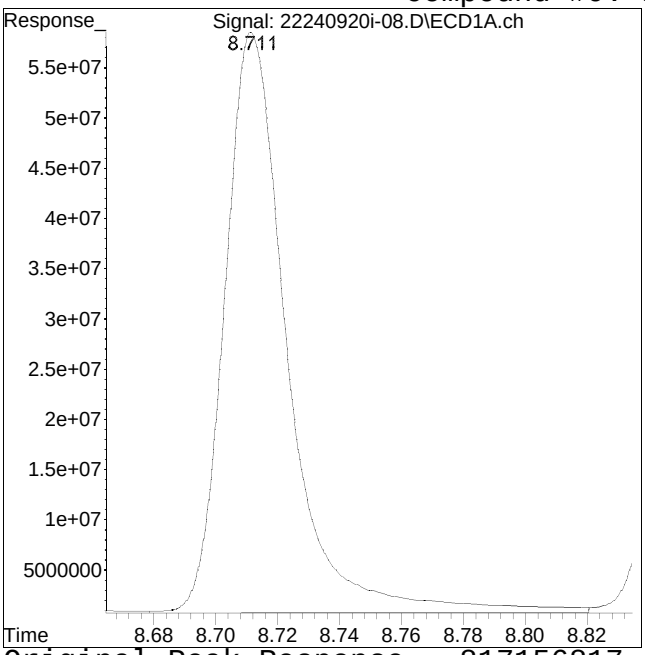
Manual Peak Response = 279583652 M4

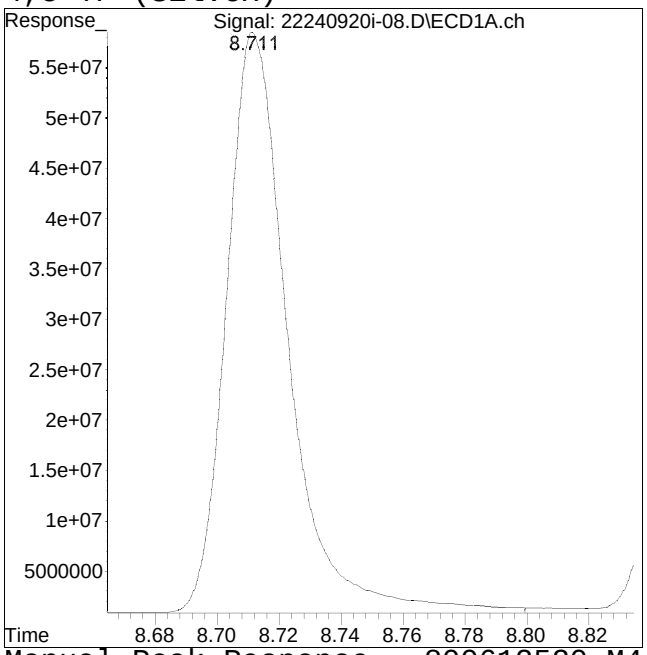
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #9: 2,4,5-TP (Silvex)



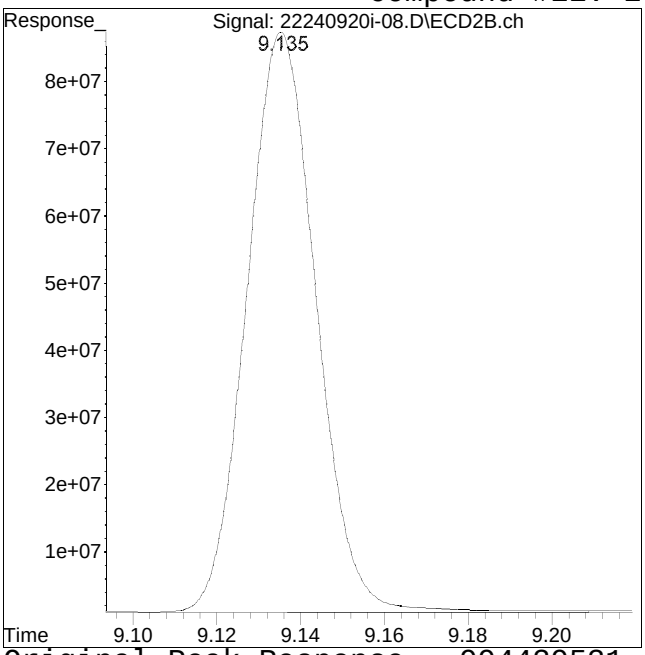


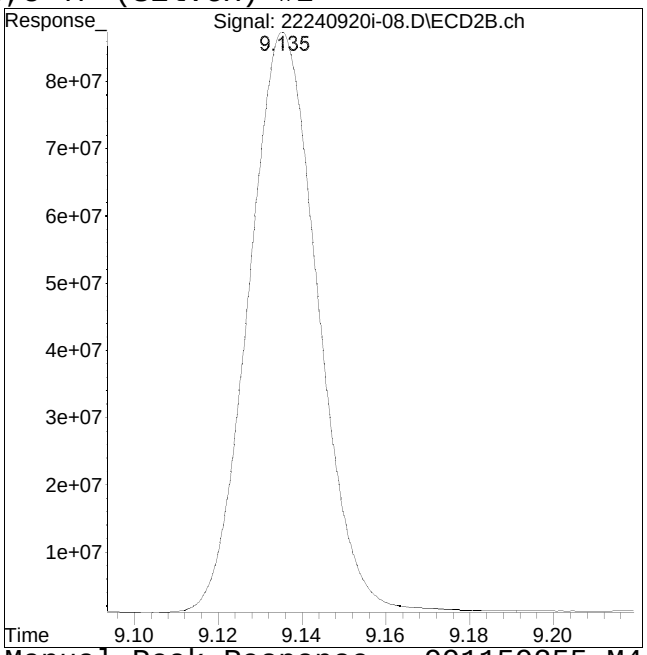
Original Peak Response = 817156817 Manual Peak Response = 800612520 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #22: 2,4,5-TP (Silvex) #2



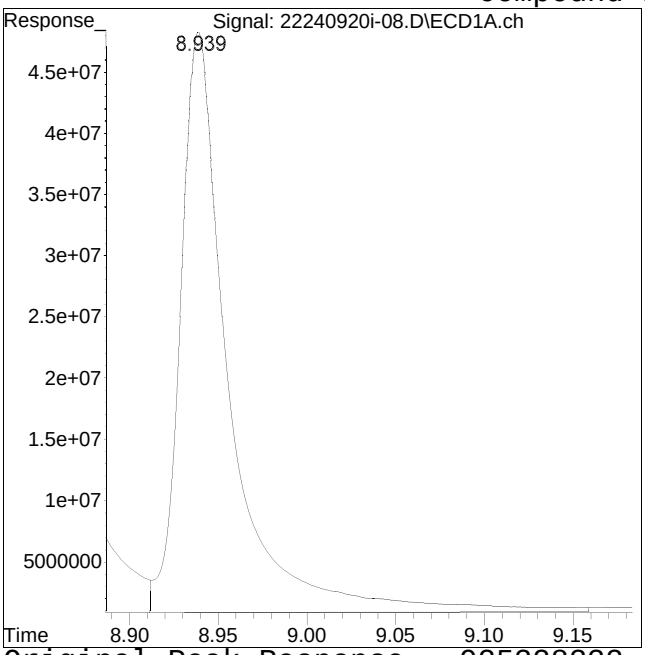


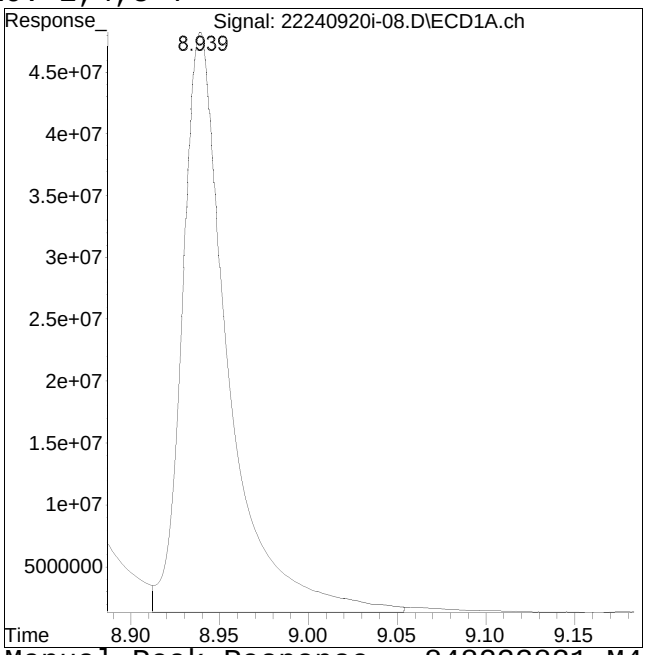
Original Peak Response = 994439531 Manual Peak Response = 991159255 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #10: 2,4,5-T



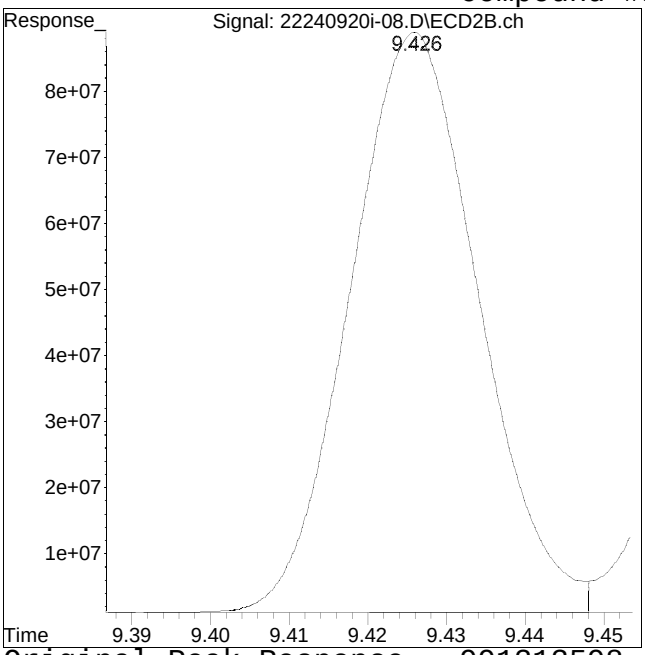


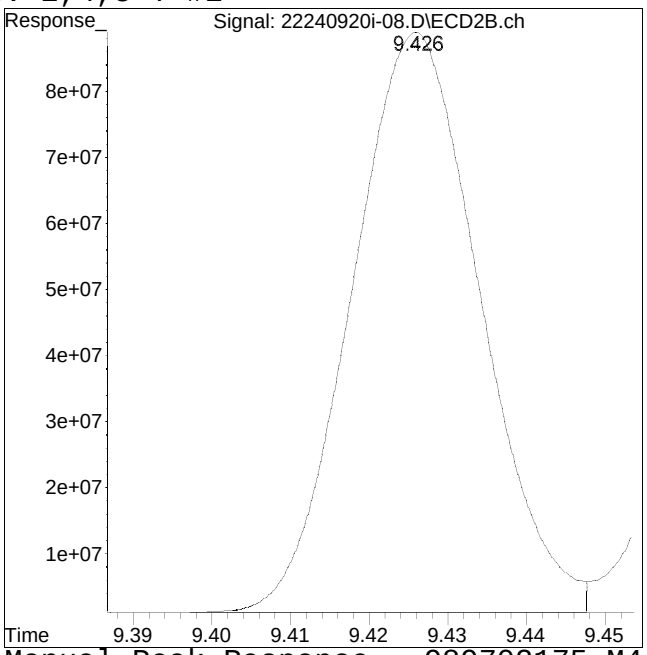
Original Peak Response = 925328332 Manual Peak Response = 848233821 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #23: 2,4,5-T #2



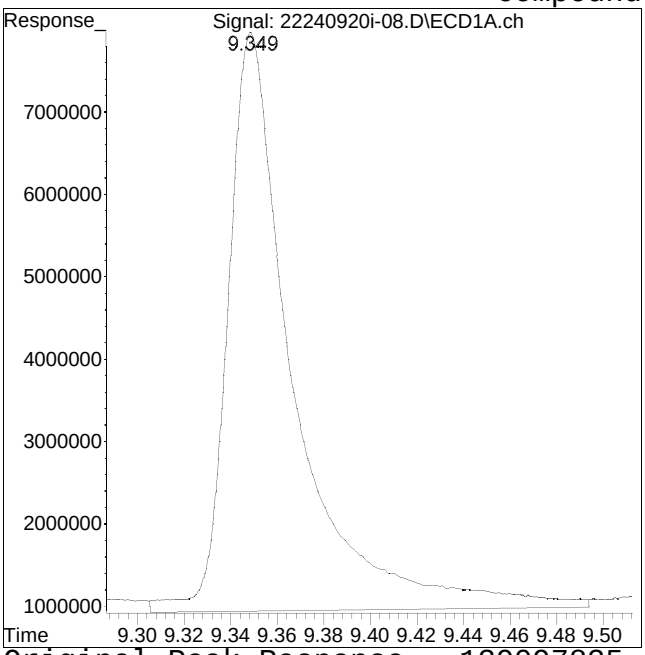


Original Peak Response = 991313598 Manual Peak Response = 989702175 M4
M4 = Poor automated baseline construction.

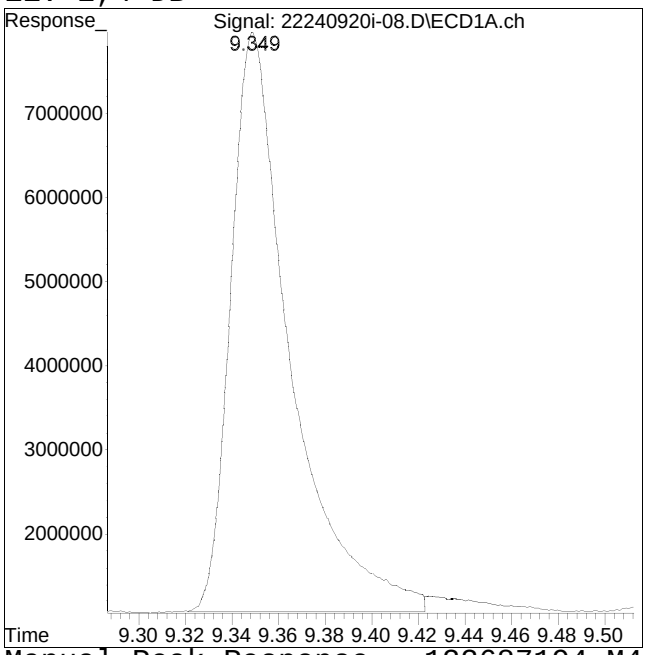
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #11: 2,4-DB



Original Peak Response = 139097835

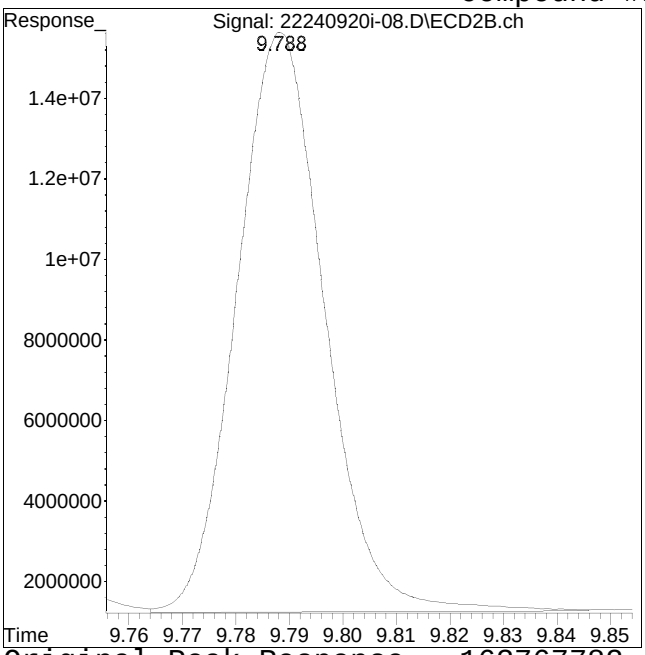


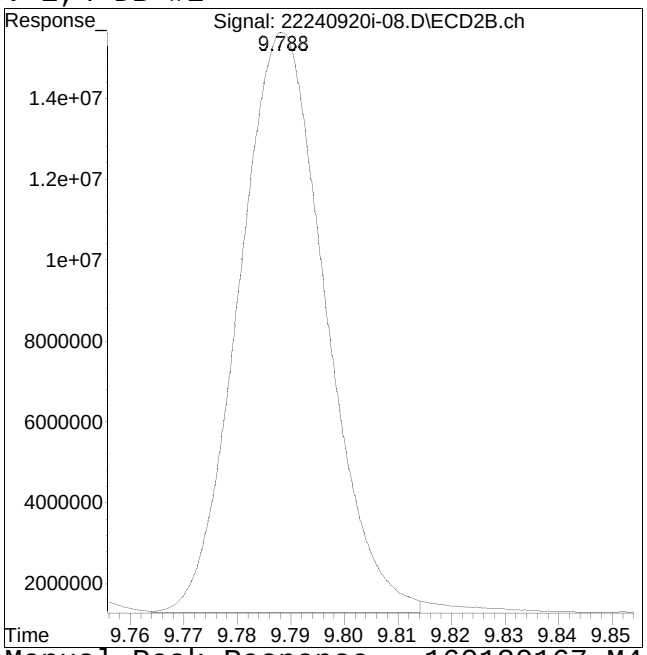
Manual Peak Response = 122687194 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #24: 2,4-DB #2



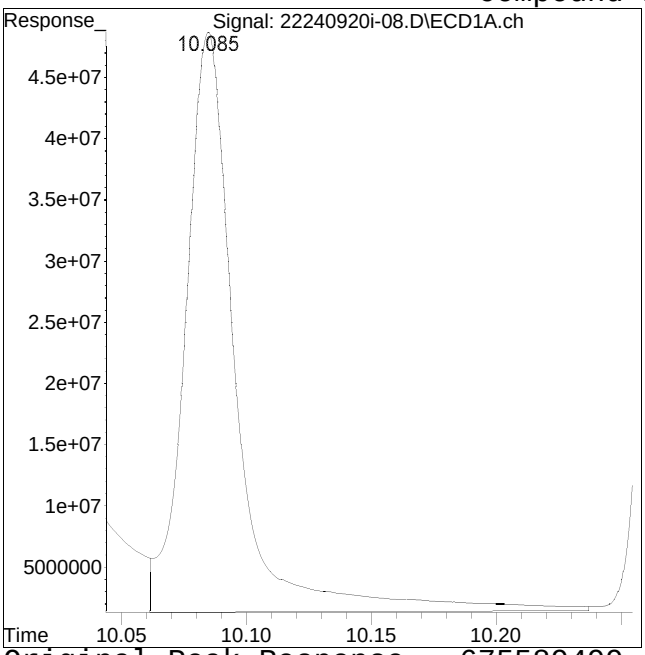


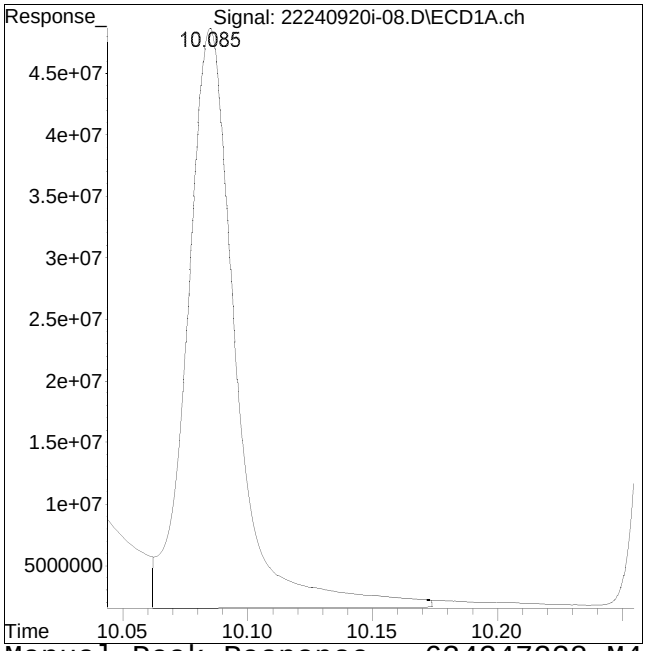
Original Peak Response = 163767782 Manual Peak Response = 160120167 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #12: Dinoseb



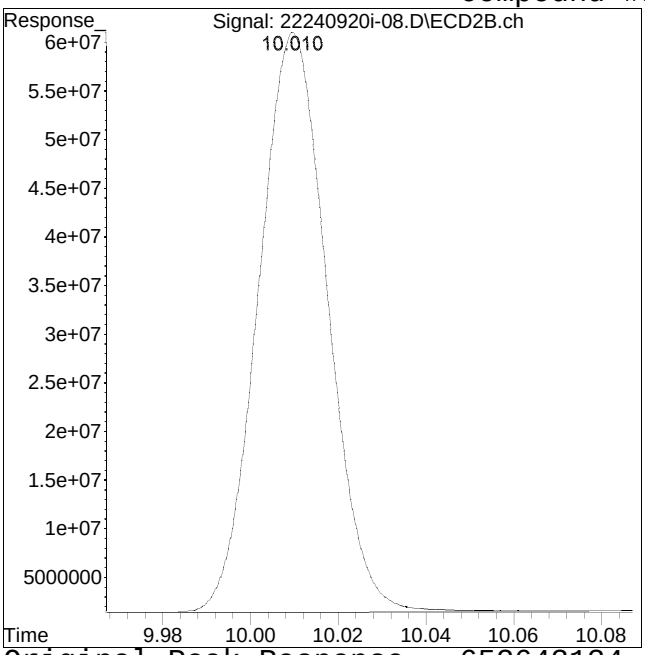


Original Peak Response = 675589499 Manual Peak Response = 634347238 M4
M4 = Poor automated baseline construction.

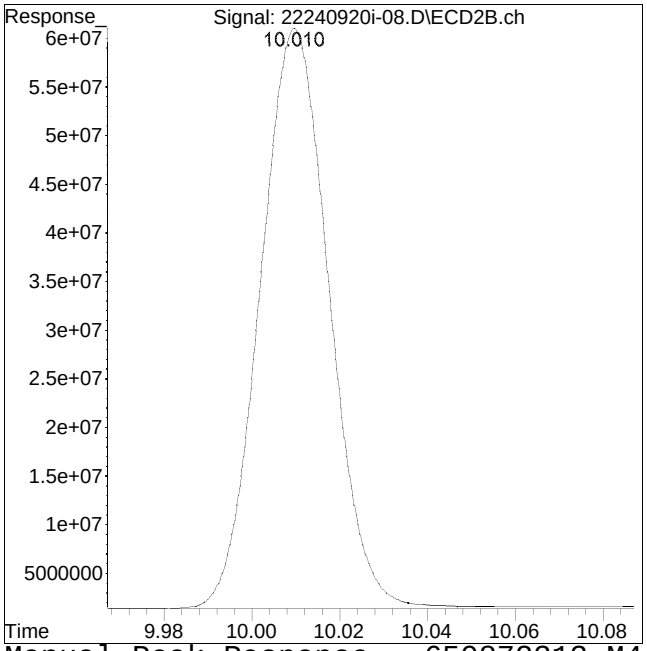
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240920QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240920i-08.D Operator : pest22:akm
Date Inj'd : 9/20/2024 1:34 pm Instrument : Pest22
Sample : cicv,42e,,pp 11634 L0.2/20Quant Date : 9/23/2024 11:28 am

Compound #25: Dinoseb #2



Original Peak Response = 652643134



Manual Peak Response = 650872313 M4
M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST16	**Calibration Date**	: 09/25/24 06:36		
Lab File ID	: 16240925a-02	**Init. Calib. Date(s)**	: 08/29/24	08/29/24	
Sample No	: WG1975970-1	**Init. Calib. Times**	: 12:47	14:25	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	93	0
Dalapon	0.206	0.23	-	-11.7	15	103	0
DCAA (surrogate)	0.187	0.211	-	-12.8	15	101	0
Dicamba	0.588	0.63	-	-7.1	15	98	0
MCPP	0.00065	0.00075	-	-15.4*	15	107	0
MCPA	0.00105	0.00127	-	-21*	15	105	0
Dichloroprop	0.179	0.196	-	-9.5	15	98	0
2,4-D	0.199	0.238	-	-19.6*	15	107	0
2,4,5-TP (Silvex)	0.768	0.865	-	-12.6	15	102	0
2,4,5-T	0.76	0.841	-	-10.7	15	101	0
2,4-DB	0.104	0.126	-	-21.2*	15	109	0
Dinoseb	0.61	0.575	-	5.7	15	78	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST16	**Calibration Date**	: 09/25/24 06:36
Lab File ID	: 16240925a-02	**Init. Calib. Date(s)**	: 08/29/24 08/29/24
Sample No	: WG1975970-1	**Init. Calib. Times**	: 12:47 14:25
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	87	0
Dalapon	0.194	0.239	-	-23.2*	15	105	0
DCAA (surrogate)	0.191	0.215	-	-12.6	15	94	0
Dicamba	0.568	0.625	-	-10	15	94	0
MCPP	18.8	13.778	-	26.7*	15	67	0
MCPA	18.6	15.245	-	18*	15	72	0
Dichloroprop	0.182	0.2	-	-9.9	15	92	0
2,4-D	0.231	0.253	-	-9.5	15	93	0
2,4,5-TP (Silvex)	0.814	0.868	-	-6.6	15	90	0
2,4,5-T	0.624	0.797	-	-27.7*	15	114	0
2,4-DB	0.119	0.137	-	-15.1*	15	98	0
Dinoseb	0.456	0.54	-	-18.4*	15	101	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 09/27/24 03:26		
Lab File ID	: 22240926a-64	**Init. Calib. Date(s)**	: 09/20/24	09/20/24	
Sample No	: WG1976540-6	**Init. Calib. Times**	: 11:42	13:15	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	100	0
Dalapon	0.234	0.236	-	-0.9	15	97	0
DCAA (surrogate)	0.184	0.206	-	-12	15	108	0
Dicamba	0.568	0.629	-	-10.7	15	109	0
MCPP	0.00048	0.0005	-	-4.2	15	102	0
MCPA	0.00087	0.00095	-	-9.2	15	104	0
Dichloroprop	0.175	0.188	-	-7.4	15	103	0
2,4-D	0.213	0.231	-	-8.5	15	108	0
2,4,5-TP (Silvex)	0.772	0.767	-	0.6	15	96	0
2,4,5-T	0.792	0.763	-	3.7	15	95	0
2,4-DB	0.116	0.119	-	-2.6	15	101	0
Dinoseb	0.59	0.524	-	11.2	15	86	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720	
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005	
Instrument ID	: PEST22	**Calibration Date**	: 09/27/24 03:26	
Lab File ID	: 22240926a-64	**Init. Calib. Date(s)**	: 09/20/24	09/20/24
Sample No	: WG1976540-6	**Init. Calib. Times**	: 11:42	13:15
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	103	0
Dalapon	0.202	0.208	-	-3	15	97	0
DCAA (surrogate)	0.189	0.199	-	-5.3	15	106	0
Dicamba	0.534	0.573	-	-7.3	15	108	0
MCPP	0.00053	0.00053	-	0	15	104	0
MCPA	0.00095	0.001	-	-5.3	15	107	0
Dichloroprop	0.173	0.185	-	-6.9	15	107	0
2,4-D	0.222	0.236	-	-6.3	15	107	0
2,4,5-TP (Silvex)	0.776	0.813	-	-4.8	15	105	0
2,4,5-T	0.768	0.711	-	7.4	15	94	0
2,4-DB	0.126	0.124	-	1.6	15	100	0
Dinoseb	0.49	0.499	-	-1.8	15	102	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 09/27/24 08:23		
Lab File ID	: 22240926a-80	**Init. Calib. Date(s)**	: 09/20/24	09/20/24	
Sample No	: WG1976540-7	**Init. Calib. Times**	: 11:42	13:15	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	110	0
Dalapon	0.234	0.231	-	1.3	15	105	0
DCAA (surrogate)	0.184	0.203	-	-10.3	15	117	0
Dicamba	0.568	0.614	-	-8.1	15	118	0
MCPP	0.00048	0.00052	-	-8.3	15	117	0
MCPA	0.00087	0.00097	-	-11.5	15	117	0
Dichloroprop	0.175	0.19	-	-8.6	15	115	0
2,4-D	0.213	0.231	-	-8.5	15	119	0
2,4,5-TP (Silvex)	0.772	0.837	-	-8.4	15	116	0
2,4,5-T	0.792	0.868	-	-9.6	15	119	0
2,4-DB	0.116	0.128	-	-10.3	15	120	0
Dinoseb	0.59	0.583	-	1.2	15	106	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST22	**Calibration Date**	: 09/27/24 08:23		
Lab File ID	: 22240926a-80	**Init. Calib. Date(s)**	: 09/20/24	09/20/24	
Sample No	: WG1976540-7	**Init. Calib. Times**	: 11:42	13:15	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4,4'-DBOB	1	1	-	0	15	112	0
Dalapon	0.202	0.208	-	-3	15	106	0
DCAA (surrogate)	0.189	0.196	-	-3.7	15	114	0
Dicamba	0.534	0.565	-	-5.8	15	117	0
MCPP	0.00053	0.00055	-	-3.8	15	117	0
MCPA	0.00095	0.00102	-	-7.4	15	118	0
Dichloroprop	0.173	0.182	-	-5.2	15	115	0
2,4-D	0.222	0.237	-	-6.8	15	118	0
2,4,5-TP (Silvex)	0.776	0.826	-	-6.4	15	116	0
2,4,5-T	0.768	0.816	-	-6.2	15	118	0
2,4-DB	0.126	0.132	-	-4.8	15	116	0
Dinoseb	0.49	0.526	-	-7.3	15	117	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 25 Sep 2024   6:36
Operator : pest16:peg
Sample   : wg1975970-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1975970,,ical21449
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 07:03:56 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	93	0.00
2	t	Dalapon		0.206	0.230	-11.7	103	0.00
3	s	DCAA (surrogate)		0.187	0.211	-12.8	101	0.00
4	t	Dicamba		0.588	0.630	-7.1	98	0.00
5	t	MCPP		0.00065	0.00075	-15.4#	107	0.00
6	t	MCPA		0.00105	0.00127	-21.0#	105	0.00
7	t	Dichloroprop		0.179	0.196	-9.5	98	0.00
8	t	2,4-D		0.199	0.238	-19.6#	107	0.00
9	t	2,4,5-TP (Silvex)		0.768	0.865	-12.6	102	0.00
10	t	2,4,5-T		0.760	0.841	-10.7	101	0.00
11	t	2,4-DB		0.104	0.126	-21.2#	109	0.00
12	t	Dinoseb		0.610	0.575	5.7	78	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	87	0.00
2	t	Dalapon		0.194	0.239	-23.2#	105	0.00
3	s	DCAA (surrogate)		0.191	0.215	-12.6	94	0.00
4	t	Dicamba		0.568	0.625	-10.0	94	0.00
5	t	MCPP	*	18.800	13.778	26.7#	67	0.00
6	t	MCPA	*	18.600	15.245	18.0#	72	0.00
7	t	Dichloroprop		0.182	0.200	-9.9	92	0.00
8	t	2,4-D		0.231	0.253	-9.5	93	0.00
9	t	2,4,5-TP (Silvex)		0.814	0.868	-6.6	90	0.00
10	t	2,4,5-T		0.624	0.797	-27.7#	114	0.00
11	t	2,4-DB		0.119	0.137	-15.1#	98	0.00
12	t	Dinoseb		0.456	0.540	-18.4#	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 25 Sep 2024   6:36
Operator : pest16:peg
Sample   : wg1975970-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1975970,,ical21449
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 07:03:56 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

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* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 6:36
Operator : pest16:peg
Sample : wg1975970-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1975970,,ical21449
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 07:03:56 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l	
	Internal Standards							
1) i	4,4'-DBOB	8.447	8.368	1066.6E6	1287.0E6	0.250M4	0.250	
	System Monitoring Compounds							
3) s	DCAA (surrog	6.883	7.276	169.4E6	208.3E6	0.212	0.212	
	Spiked Amount	0.500	Range	30 - 150	Recovery =	42.40%	42.40%	
	Target Compounds							
2) t	Dalapon	1.893	1.849	178.4E6	224.1E6	0.203	0.224	
4) t	Dicamba	7.065	7.455	505.4E6	605.3E6	0.202	0.207	
5) t	MCPP	7.272	7.573	60506922	81541489	21.857	13.778	D
6) t	MCPA	7.420	7.803	101.0E6	129.0E6	22.554M4	15.245	
7) t	Dichloroprop	7.780	8.125	156.9E6	193.3E6	0.206	0.207	
8) t	2,4-D	7.998	8.407	191.0E6	244.8E6	0.225	0.206	
9) t	2,4,5-TP (Si	8.722	9.076	700.9E6	849.1E6	0.214	0.203	
10) t	2,4,5-T	8.948	9.372	681.5E6	779.7E6	0.210M4	0.243	
11) t	2,4-DB	9.364	9.741	103.4E6	134.9E6	0.234	0.220	
12) t	Dinoseb	10.111	9.961	465.9E6	528.0E6	0.179M4	0.225	
	SemiQuant Compounds - Not Calibrated on this Instrument							

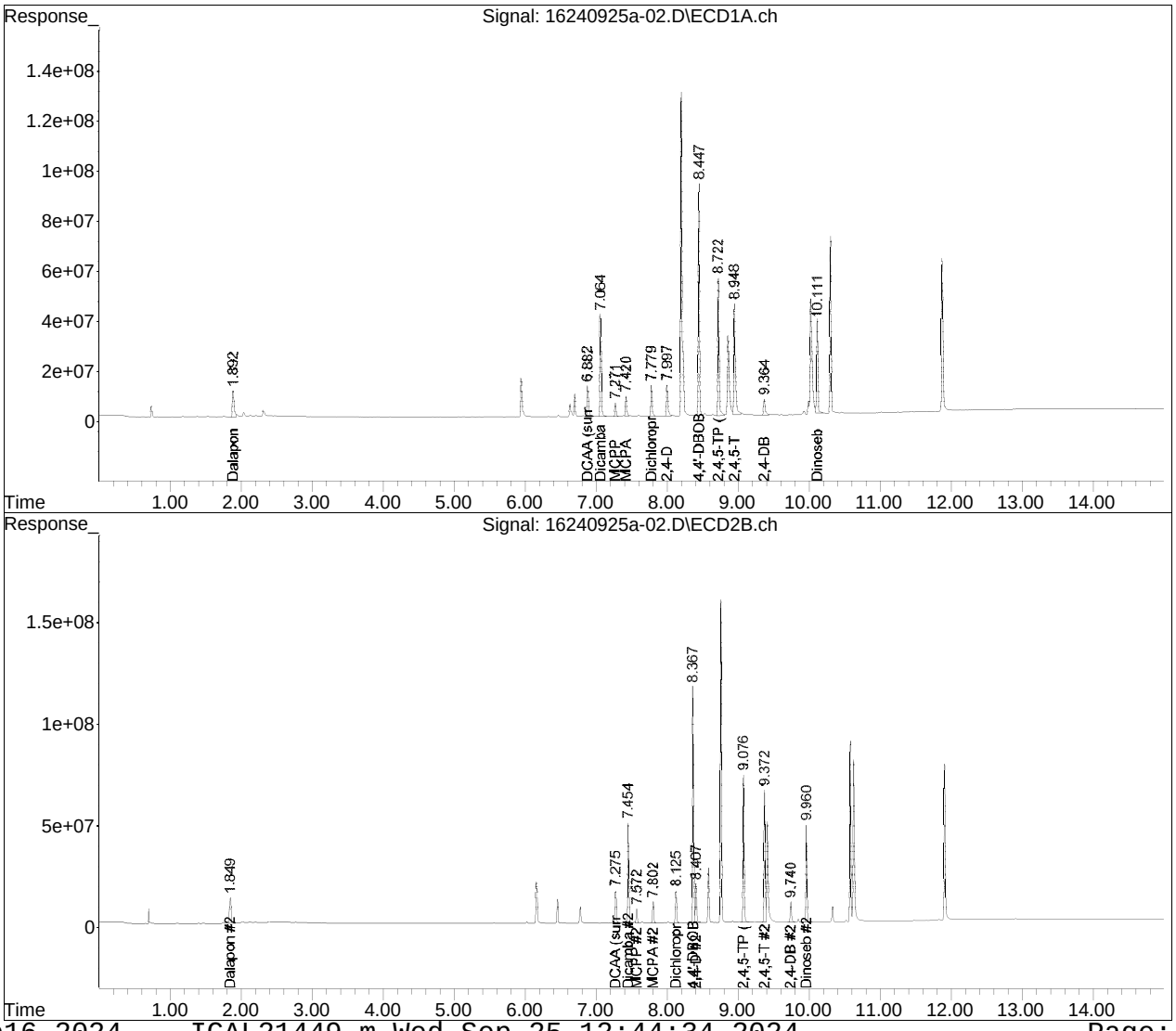
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-02.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 6:36
Operator : pest16:peg
Sample : wg1975970-1,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1975970,,ical21449
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 07:03:56 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:49 2024
Response via : Initial Calibration
Integrator: ChemStation

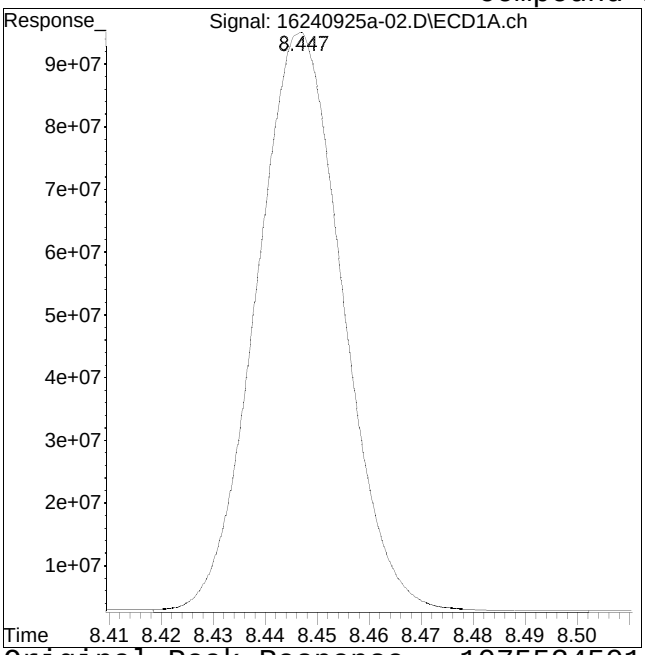
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

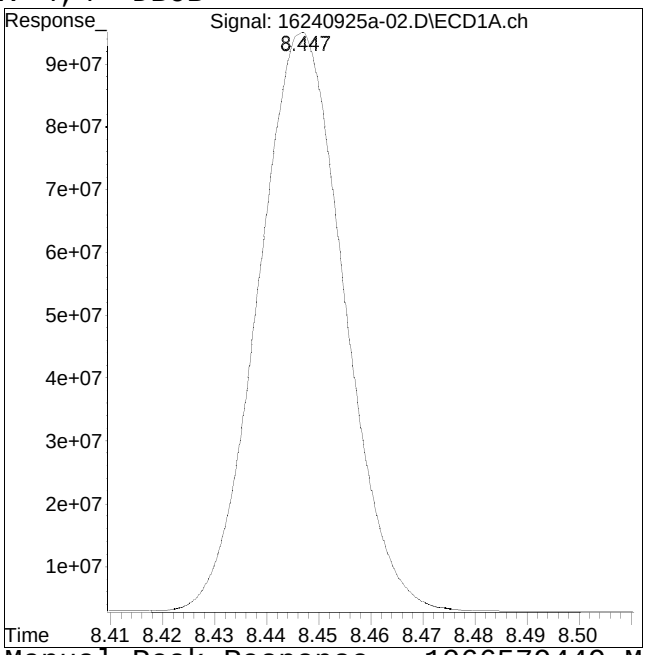


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-02.D Operator : pest16:peg
Date Inj'd : 9/25/2024 6:36 Instrument : PEST16
Sample : wg1975970-1,42,,herb11705 Quant Date : 9/25/2024 7:03 am

Compound #1: 4,4'-DBOB



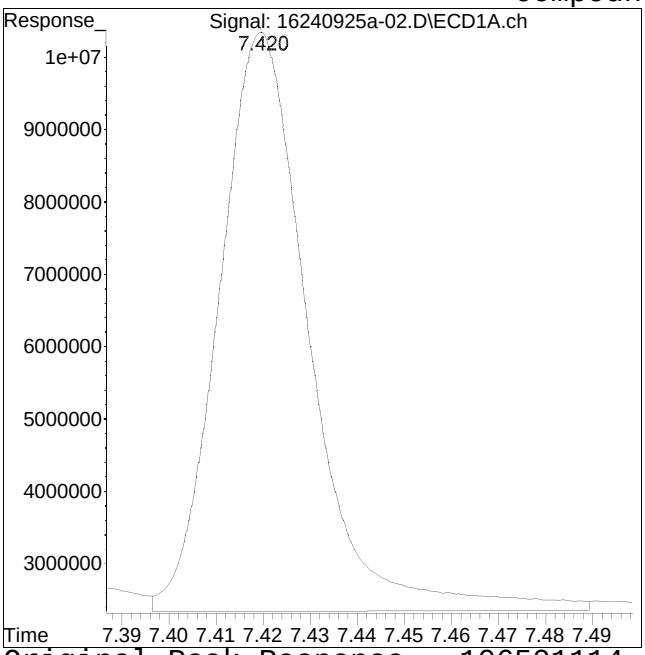


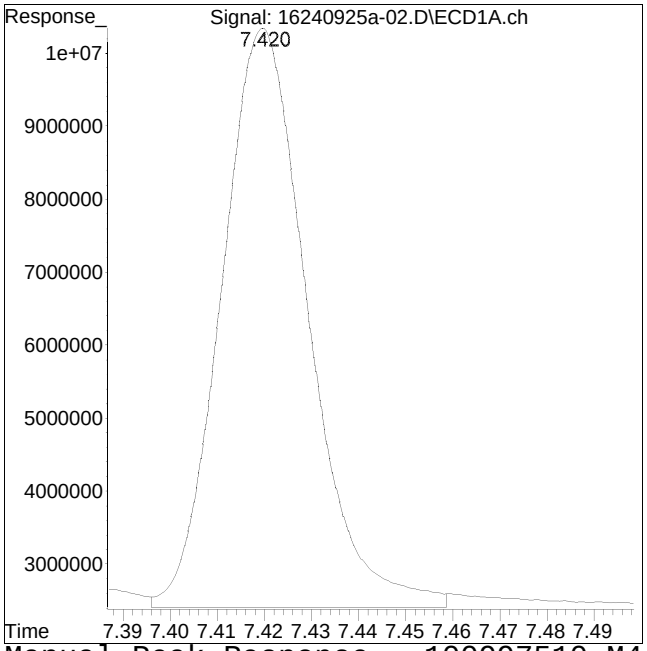
Original Peak Response = 1075524501 Manual Peak Response = 1066579449 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-02.D Operator : pest16:peg
Date Inj'd : 9/25/2024 6:36 Instrument : PEST16
Sample : wg1975970-1,42,,herb11705 Quant Date : 9/25/2024 7:03 am

Compound #6: MCPA



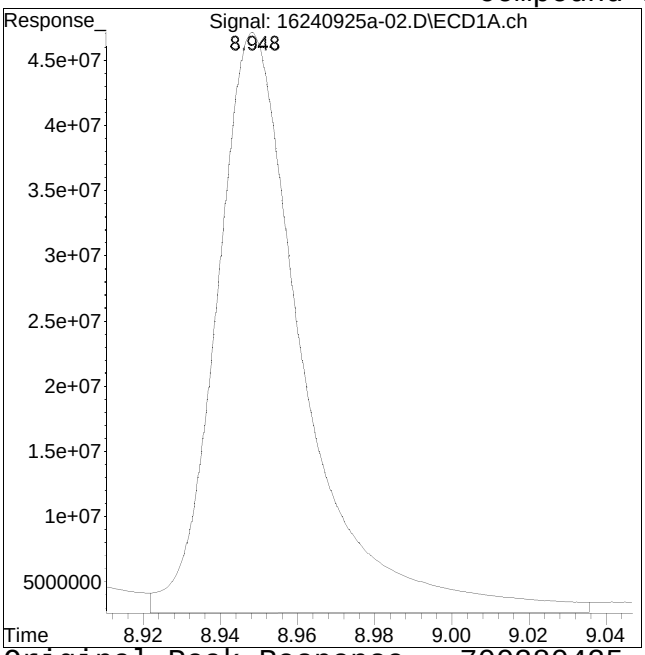


Original Peak Response = 106501114 Manual Peak Response = 100997510 M4
M4 = Poor automated baseline construction.

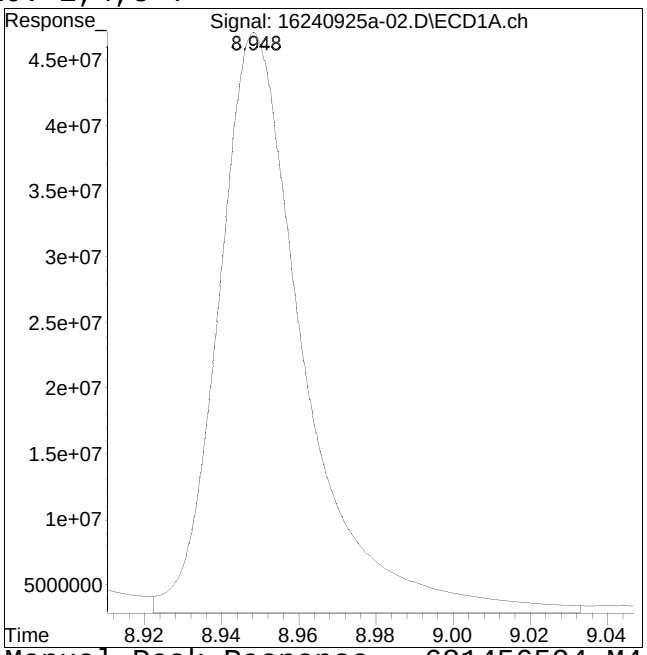
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-02.D Operator : pest16:peg
Date Inj'd : 9/25/2024 6:36 Instrument : PEST16
Sample : wg1975970-1,42,,herb11705 Quant Date : 9/25/2024 7:03 am

Compound #10: 2,4,5-T



Original Peak Response = 700380425



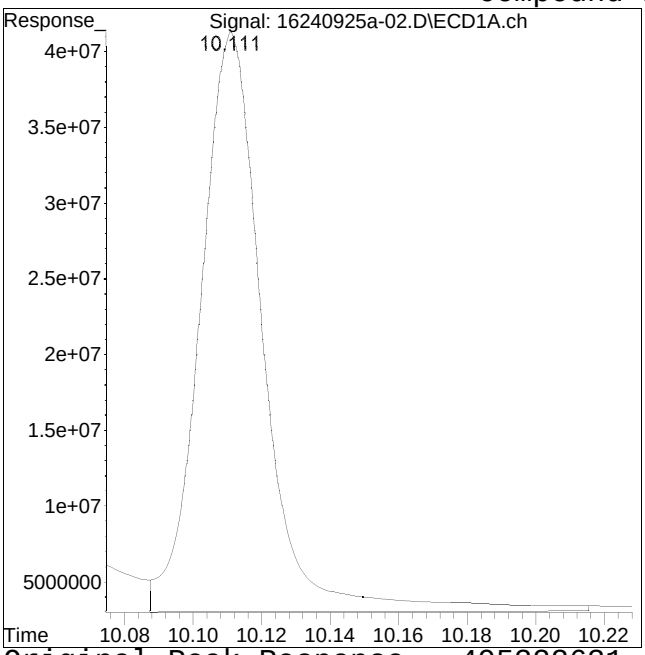
Manual Peak Response = 681456594 M4

M4 = Poor automated baseline construction.

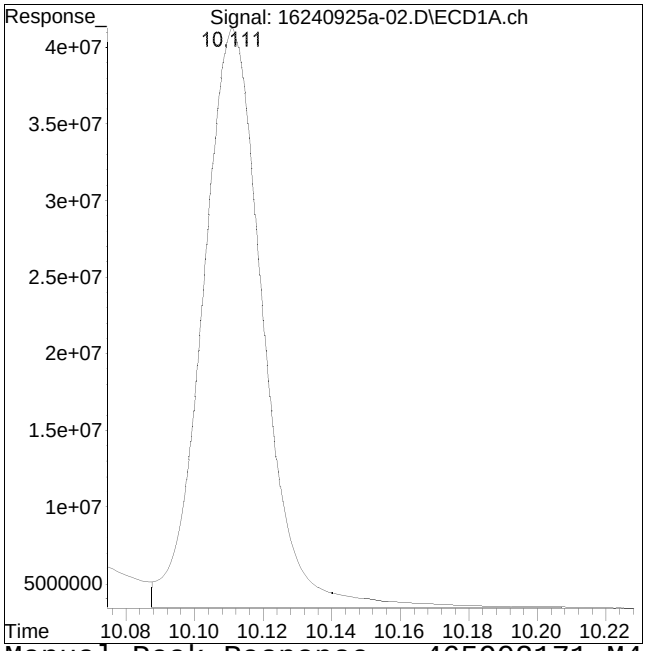
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-02.D Operator : pest16:peg
Date Inj'd : 9/25/2024 6:36 Instrument : PEST16
Sample : wg1975970-1,42,,herb11705 Quant Date : 9/25/2024 7:03 am

Compound #12: Dinoseb



Original Peak Response = 495322631



Manual Peak Response = 465902171 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-64.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2024 03:26
Operator : pest22:akm
Sample   : wg1976540-6,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1976540,,ical21511
ALS Vial : 64   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:46:27 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	100	0.00
2	t	Dalapon		0.234	0.236	-0.9	97	0.00
3	s	DCAA (surrogate)		0.184	0.206	-12.0	108	0.00
4	t	Dicamba		0.568	0.629	-10.7	109	0.00
5	t	MCPP		0.00048	0.00050	-4.2	102	0.00
6	t	MCPA		0.00087	0.00095	-9.2	104	0.00
7	t	Dichloroprop		0.175	0.188	-7.4	103	0.00
8	t	2,4-D		0.213	0.231	-8.5	108	0.00
9	t	2,4,5-TP (Silvex)		0.772	0.767	0.6	96	0.00
10	t	2,4,5-T		0.792	0.763	3.7	95	0.00
11	t	2,4-DB		0.116	0.119	-2.6	101	0.00
12	t	Dinoseb		0.590	0.524	11.2	86	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	103	0.00
2	t	Dalapon		0.202	0.208	-3.0	97	0.00
3	s	DCAA (surrogate)		0.189	0.199	-5.3	106	0.00
4	t	Dicamba		0.534	0.573	-7.3	108	0.00
5	t	MCPP		0.00053	0.00053	0.0	104	0.00
6	t	MCPA		0.00095	0.00100	-5.3	107	0.00
7	t	Dichloroprop		0.173	0.185	-6.9	107	0.00
8	t	2,4-D		0.222	0.236	-6.3	107	0.00
9	t	2,4,5-TP (Silvex)		0.776	0.813	-4.8	105	0.00
10	t	2,4,5-T		0.768	0.711	7.4	94	0.00
11	t	2,4-DB		0.126	0.124	1.6	100	0.00
12	t	Dinoseb		0.490	0.499	-1.8	102	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-64.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2024 03:26
Operator : pest22:akm
Sample   : wg1976540-6,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1976540,,ical21511
ALS Vial : 64   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:46:27 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

---

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-64.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 03:26
Operator : pest22:akm
Sample : wg1976540-6,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1976540,,ical21511
ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:46:27 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.436	8.435	1311.3E6	1679.1E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.891	7.361	203.5E6	251.2E6	0.211M4	0.197M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	42.20%	39.40%
		Target Compounds						
2)	t	Dalapon	2.322	2.317	224.9E6	254.3E6	0.184M3	0.188M3
4)	t	Dicamba	7.072	7.541	620.0E6	723.3E6	0.208M4	0.202M4
5)	t	MCPP	7.275	7.654	49306869	66927601	19.440M4	18.974
6)	t	MCPA	7.421	7.881	92711781	125.3E6	20.317	19.568
7)	t	Dichloroprop	7.775	8.199	185.3E6	233.1E6	0.202M4	0.201
8)	t	2,4-D	7.987	8.475	227.6E6	297.9E6	0.204M4	0.200
9)	t	2,4,5-TP (Si	8.707	9.135	764.4E6	1038.0E6	0.189	0.199M4
10)	t	2,4,5-T	8.927	9.426	760.5E6	907.6E6	0.183	0.176
11)	t	2,4-DB	9.335	9.787	119.9E6	159.7E6	0.197M4	0.189M4
12)	t	Dinoseb	10.084	10.011	522.5E6	636.2E6	0.169M4	0.193M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-64.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 03:26
Operator : pest22:akm
Sample : wg1976540-6,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1976540,,ical21511
ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:46:27 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

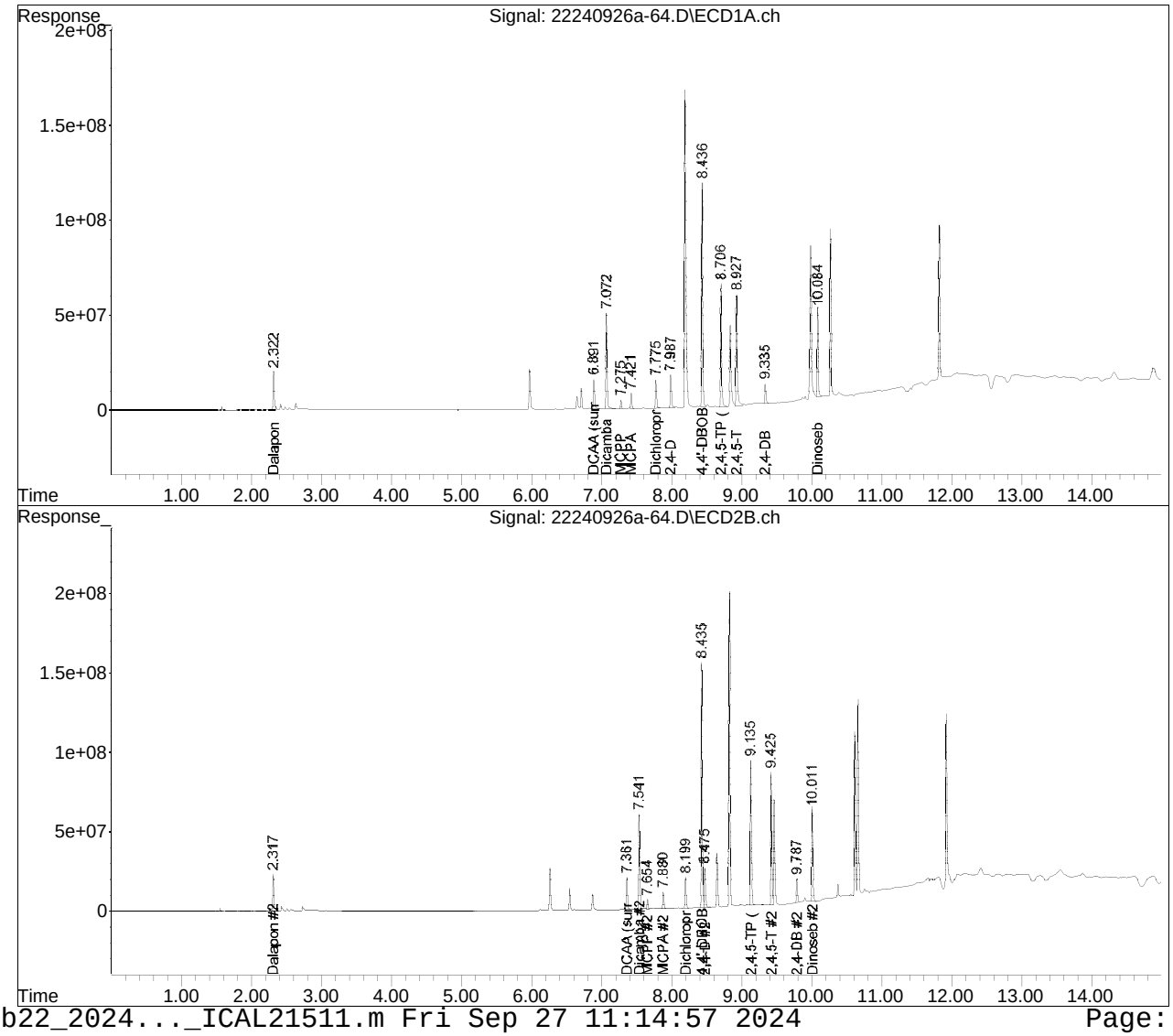
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-64.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 03:26
Operator : pest22:akm
Sample : wg1976540-6,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1976540,,ical21511
ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:46:27 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

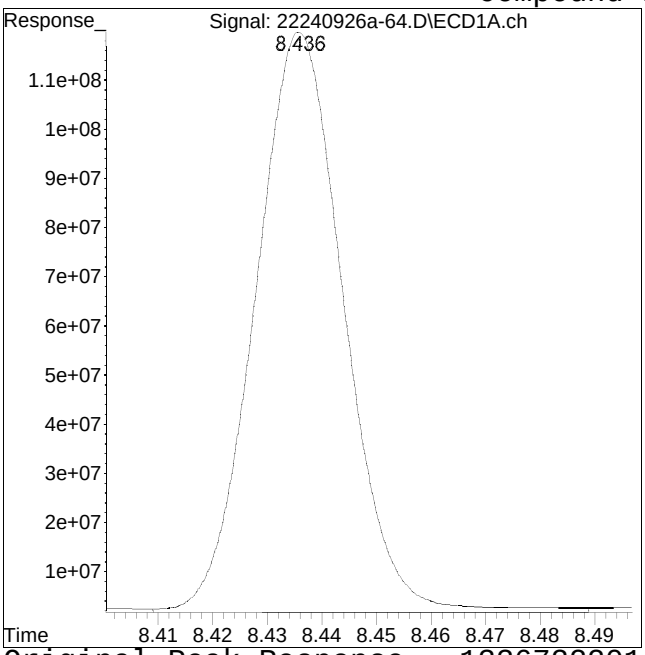
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

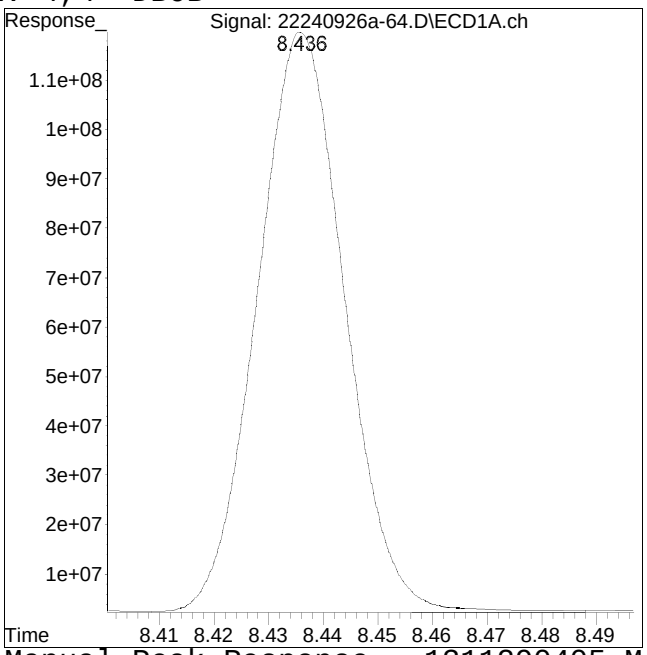


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #1: 4,4'-DBOB



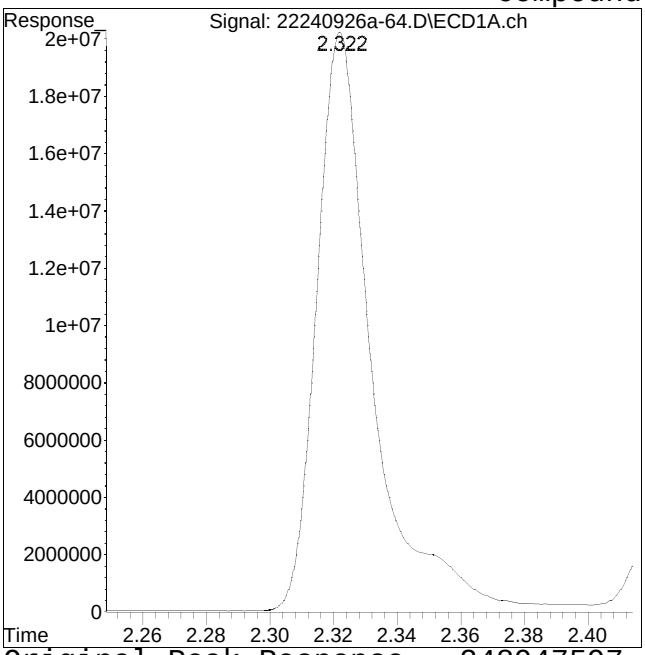


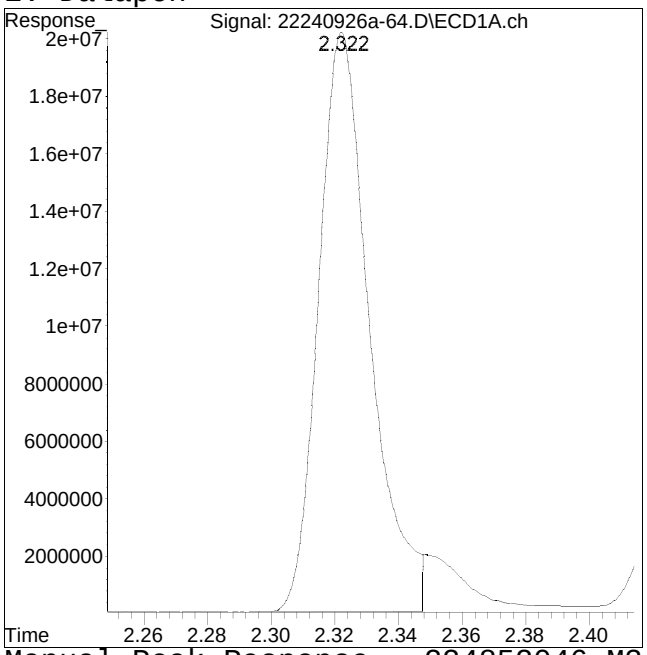
Original Peak Response = 1336722201 Manual Peak Response = 1311290405 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #2: Dalapon



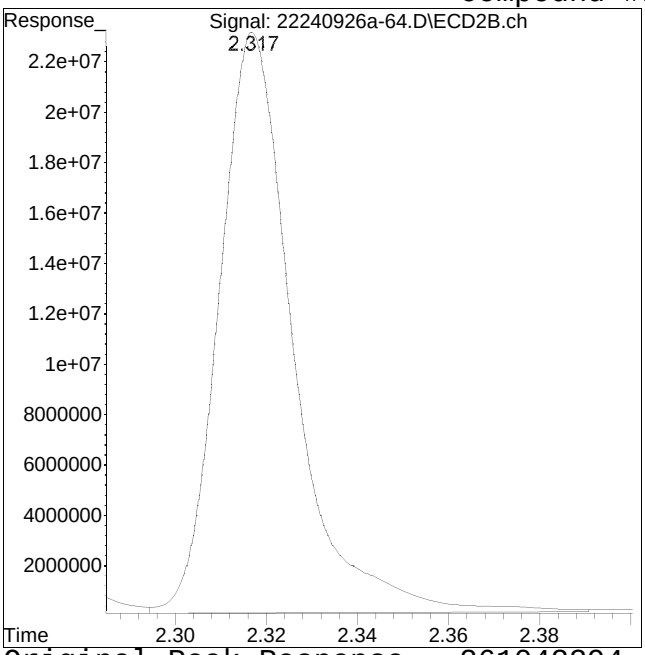


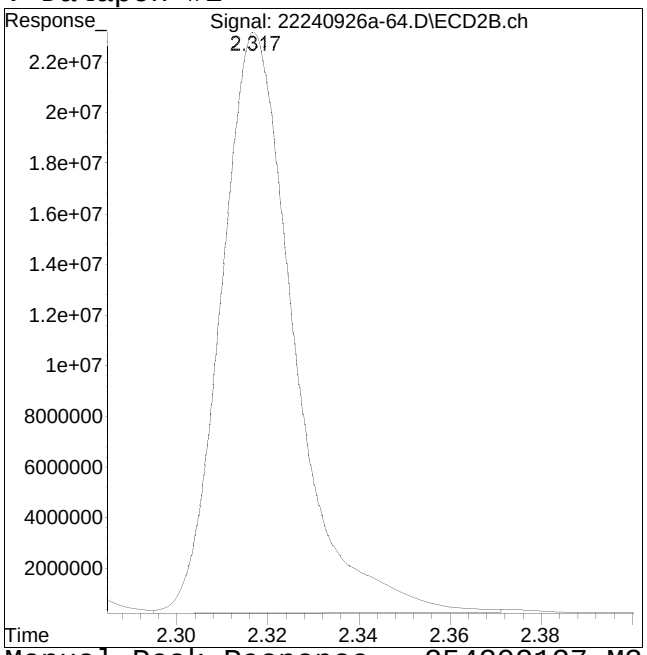
Original Peak Response = 248947597 Manual Peak Response = 224852046 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #15: Dalapon #2



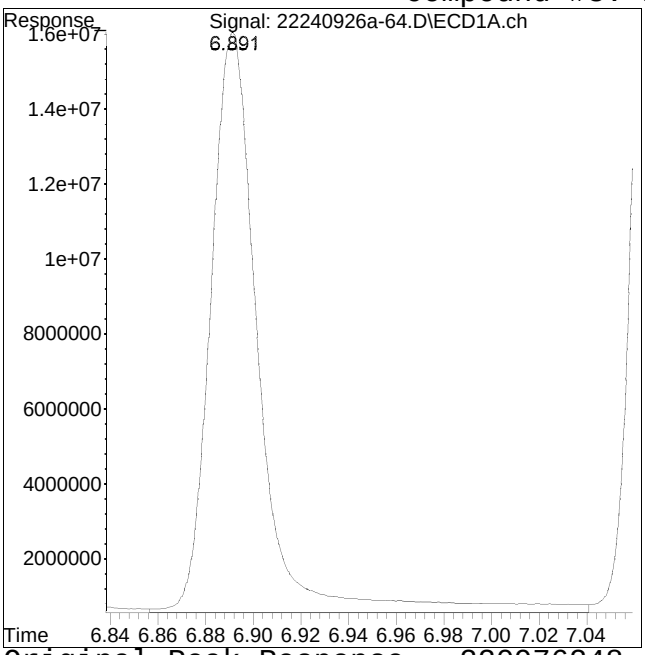


Original Peak Response = 261042394 Manual Peak Response = 254302127 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

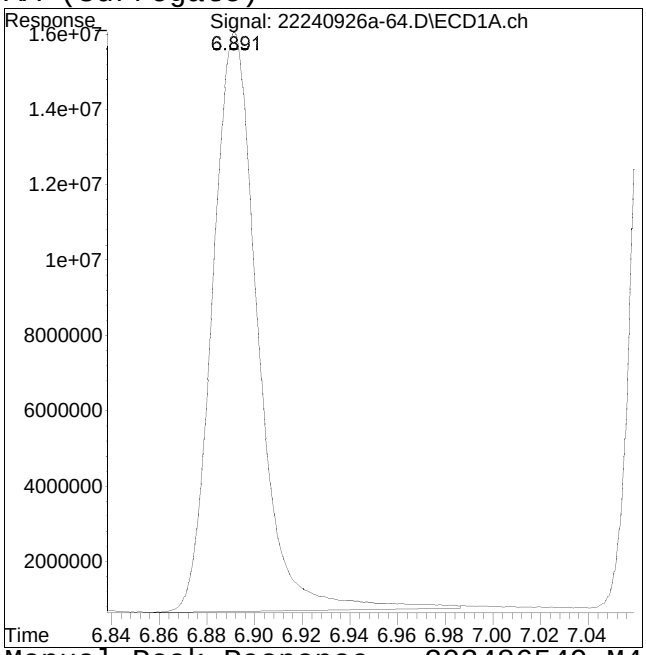
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #3: DCAA (surrogate)



Original Peak Response = 220976248



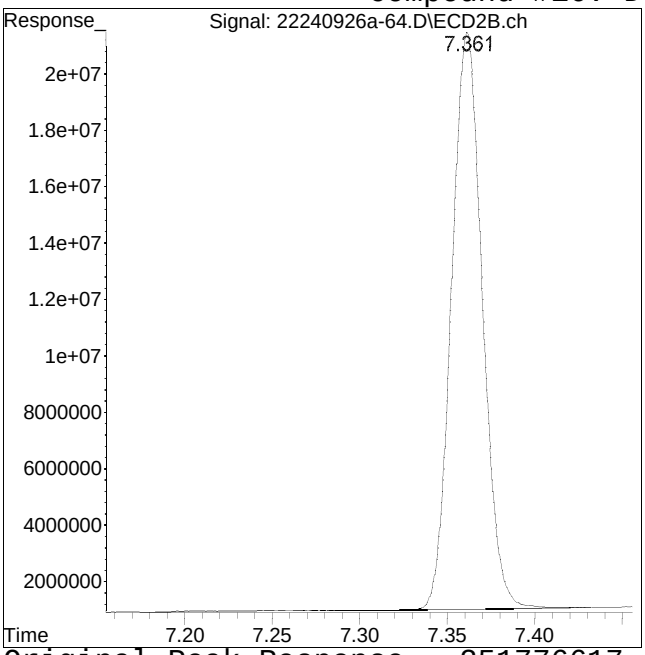
Manual Peak Response = 203486549 M4

M4 = Poor automated baseline construction.

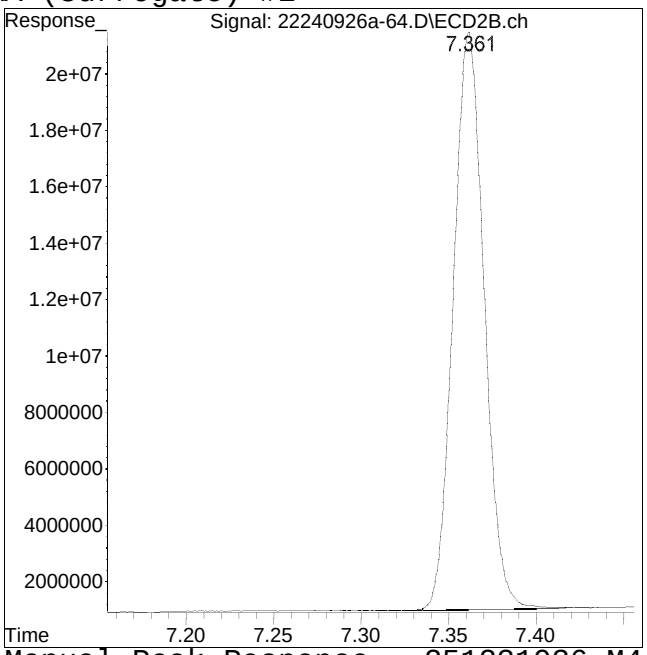
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #16: DCAA (surrogate) #2



Original Peak Response = 251776617



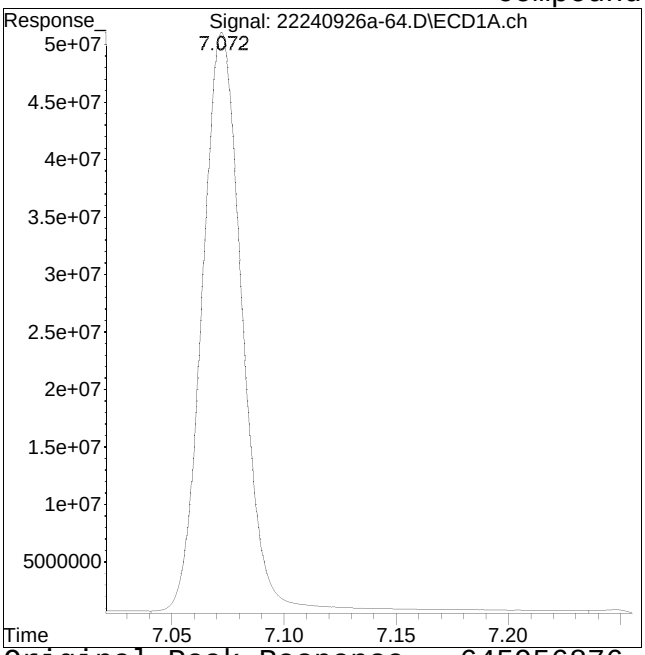
Manual Peak Response = 251231936 M4

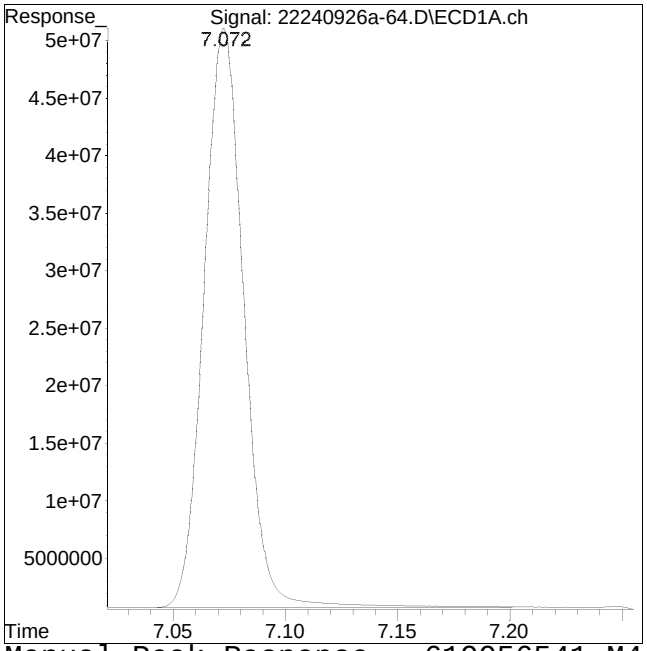
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #4: Dicamba



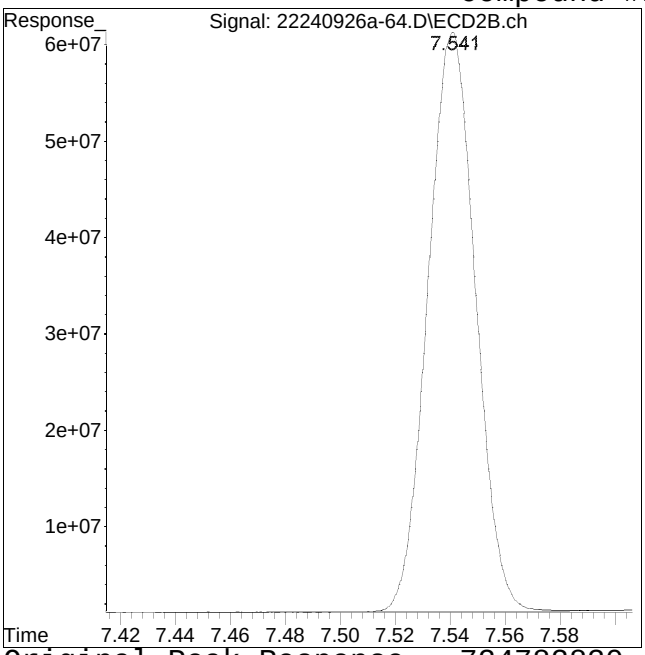


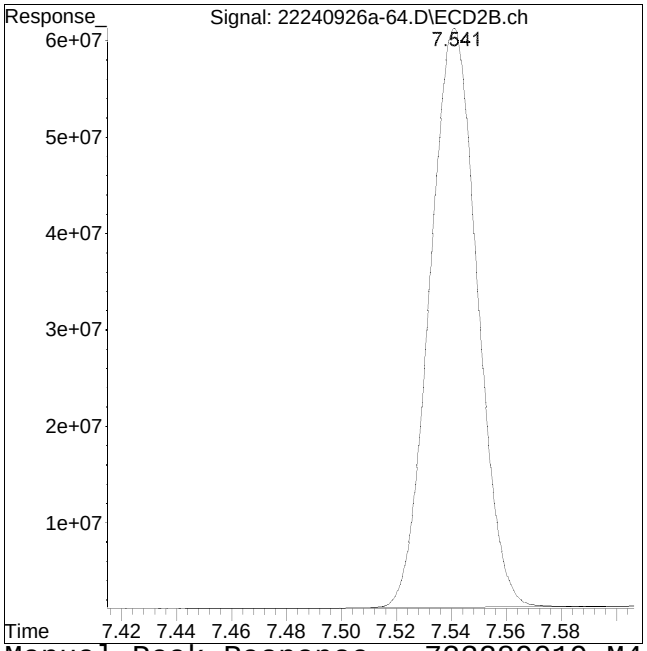
Original Peak Response = 645956876 Manual Peak Response = 619956541 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #17: Dicamba #2



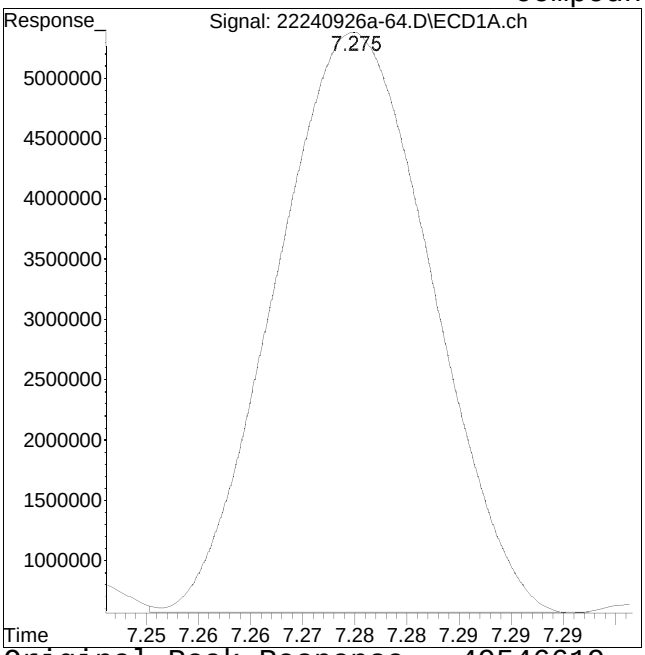


Original Peak Response = 724782830 Manual Peak Response = 723289019 M4
M4 = Poor automated baseline construction.

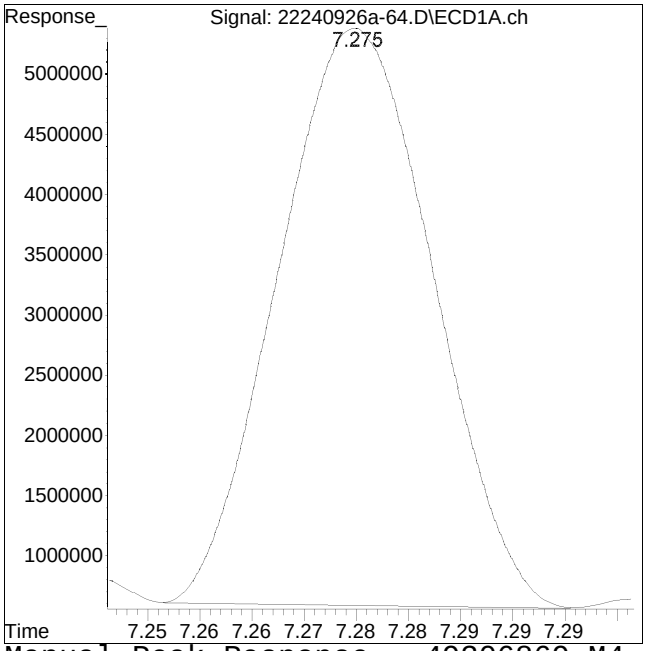
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #5: MCPP



Original Peak Response = 49546619



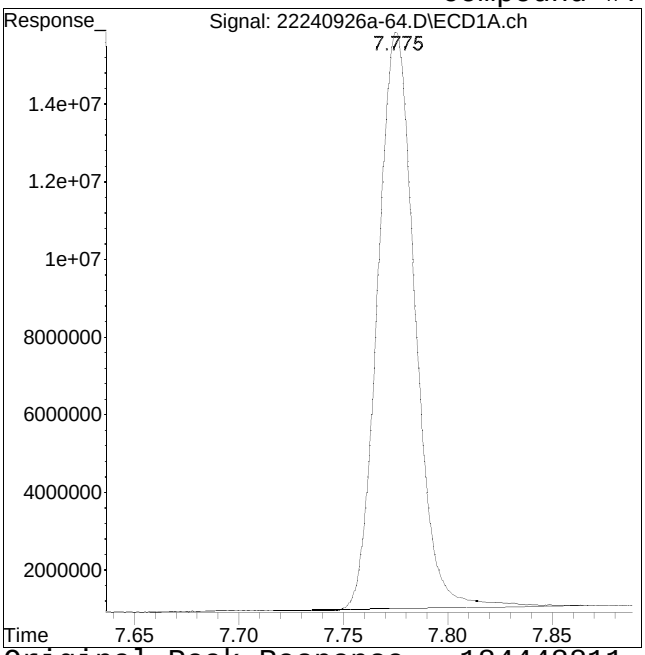
Manual Peak Response = 49306869 M4

M4 = Poor automated baseline construction.

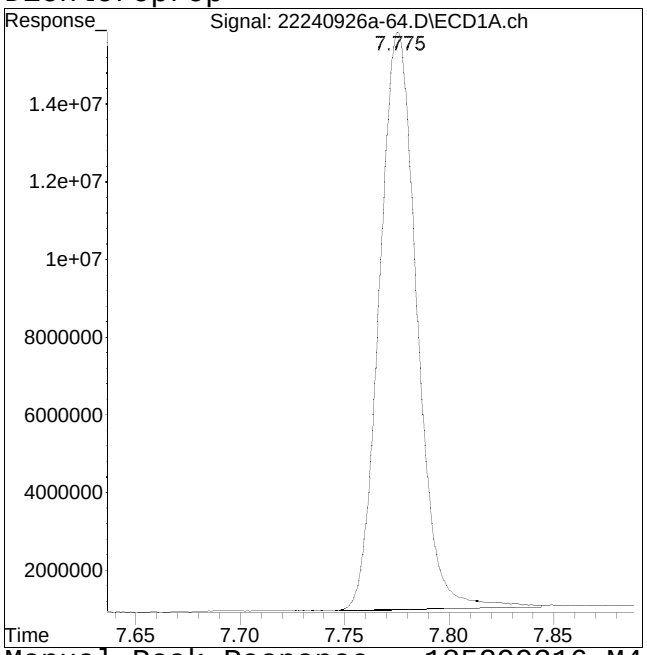
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #7: Dichloroprop



Original Peak Response = 184448811



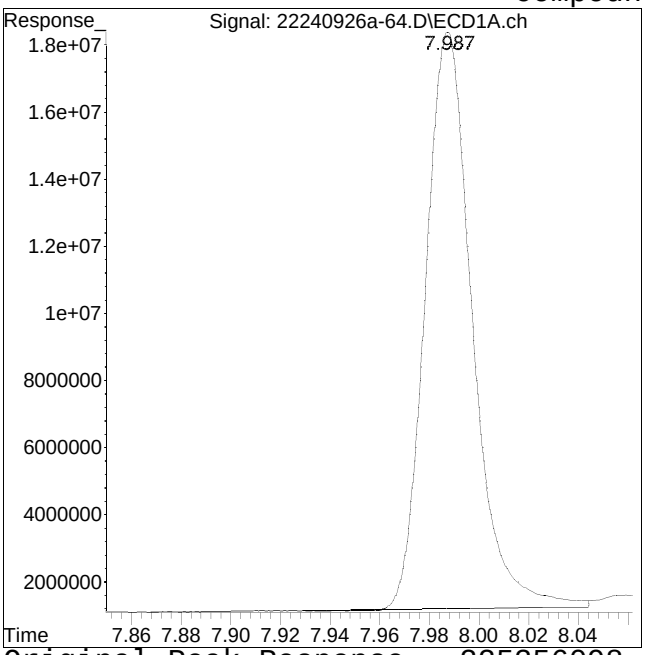
Manual Peak Response = 185299316 M4

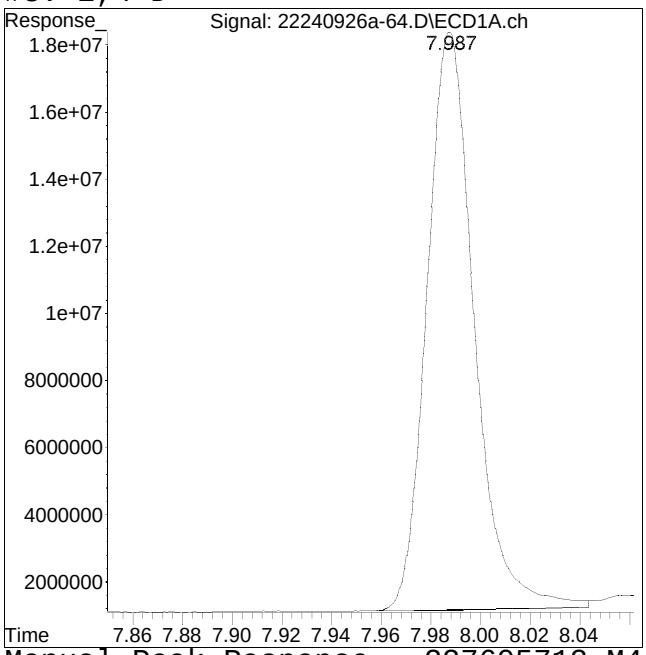
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #8: 2,4-D



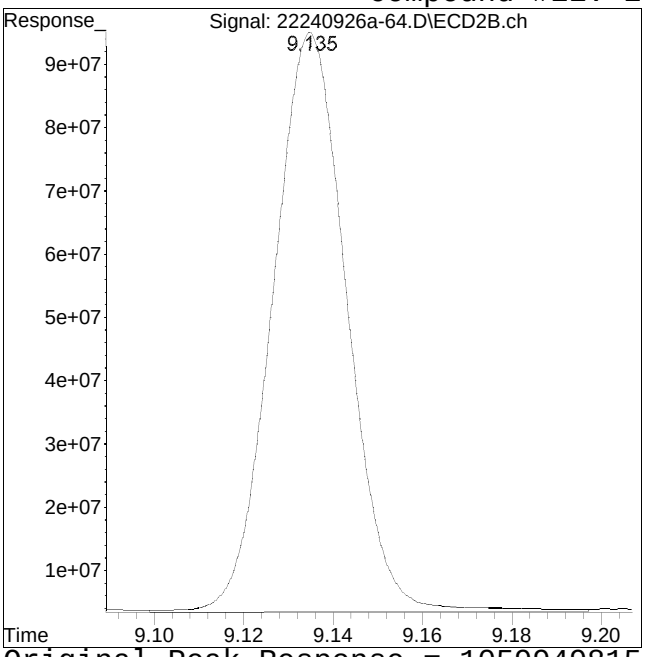


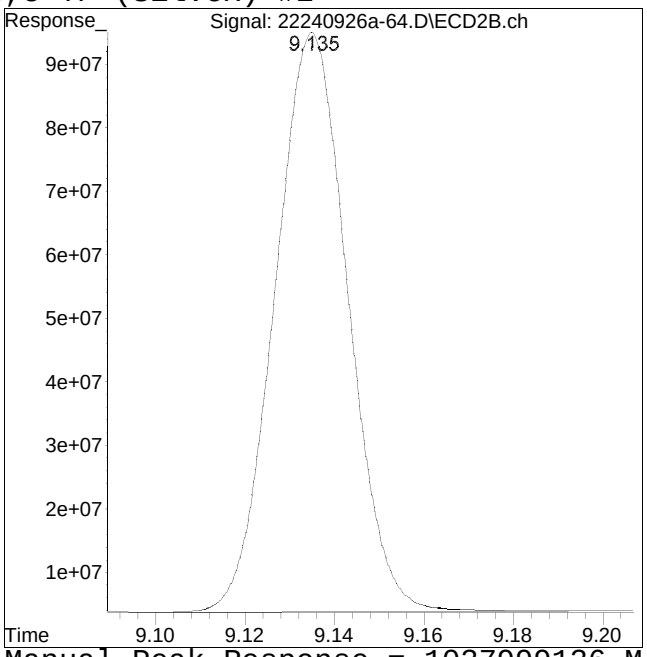
Original Peak Response = 225356098 Manual Peak Response = 227605712 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #22: 2,4,5-TP (Silvex) #2



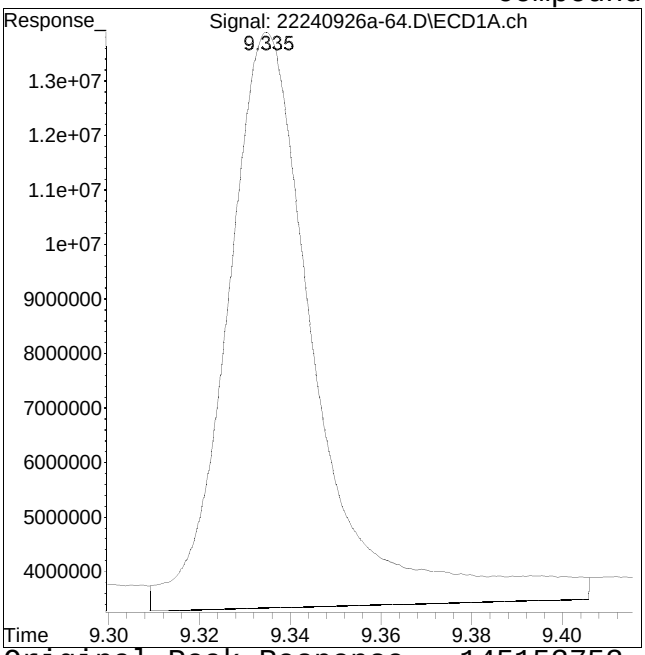


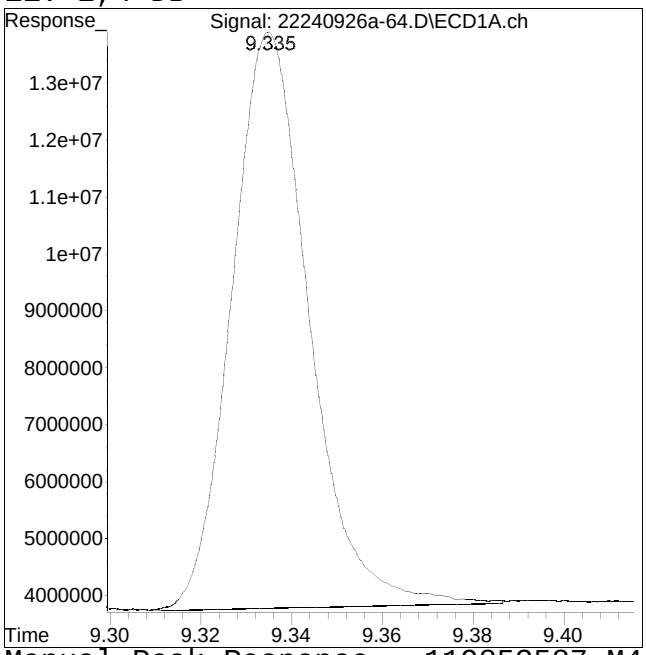
Original Peak Response = 1059949815 Manual Peak Response = 1037999136 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #11: 2,4-DB



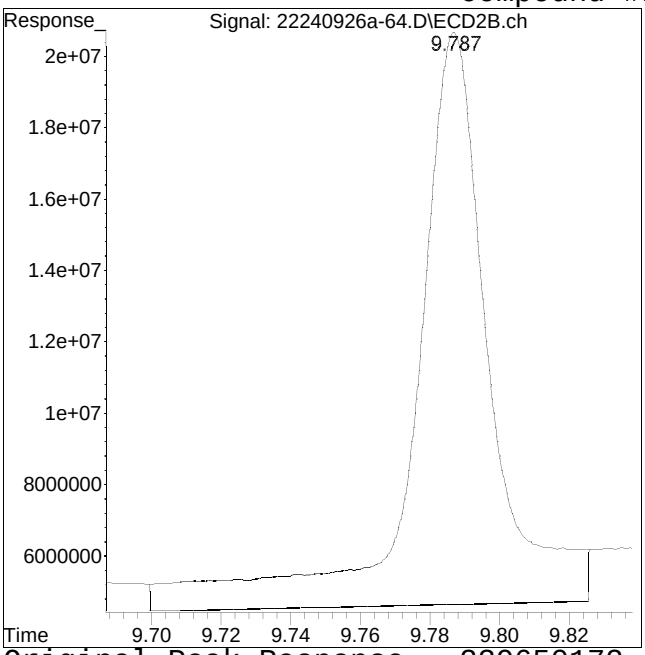


Original Peak Response = 145153753 Manual Peak Response = 119853587 M4
M4 = Poor automated baseline construction.

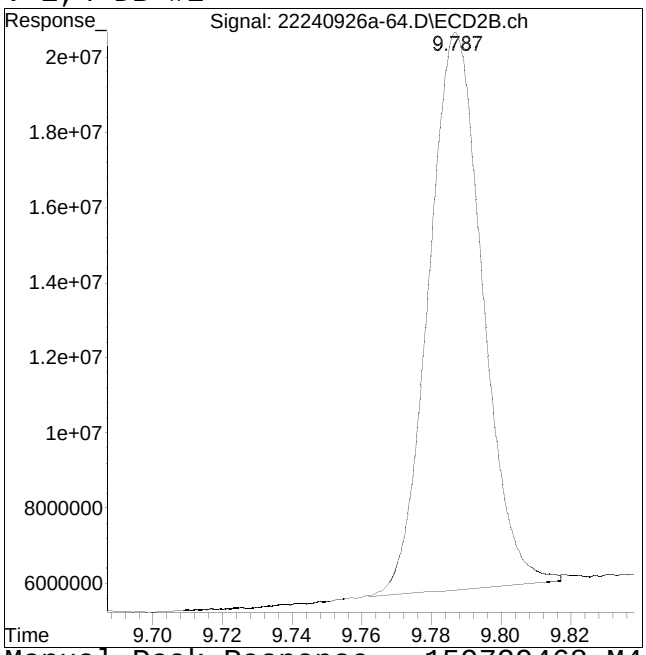
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #24: 2,4-DB #2



Original Peak Response = 239650172



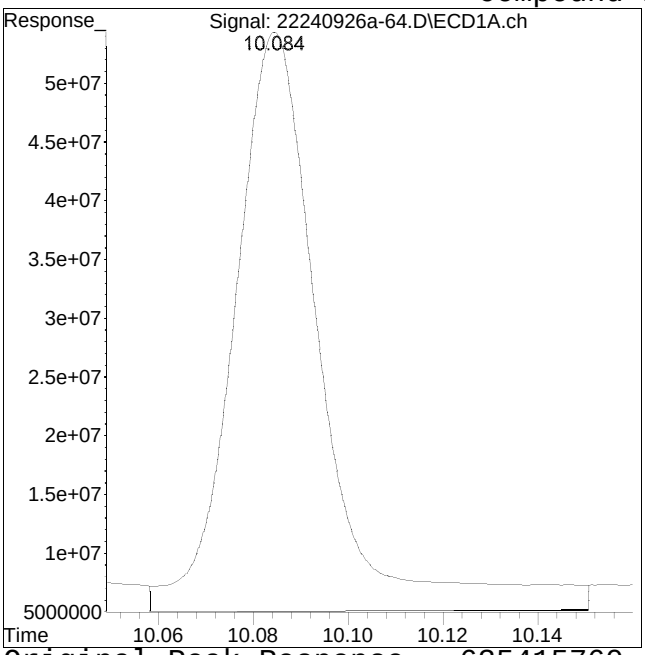
Manual Peak Response = 159729468 M4

M4 = Poor automated baseline construction.

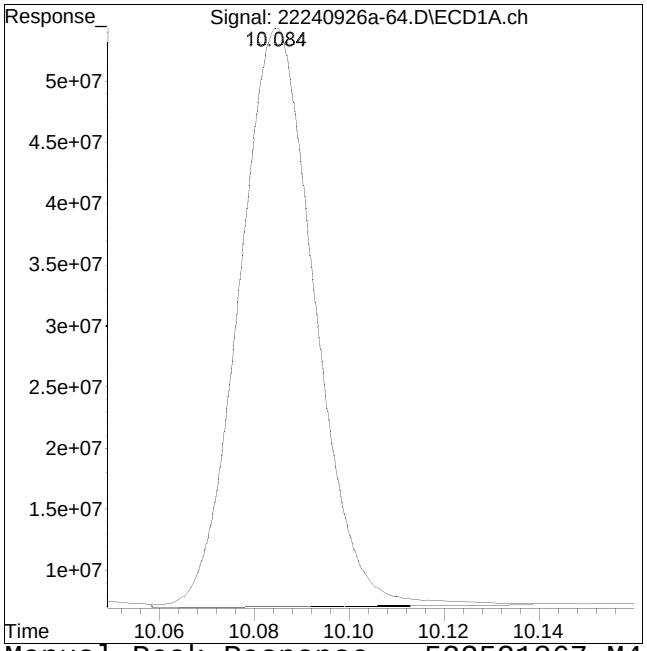
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #12: Dinoseb



Original Peak Response = 635415760



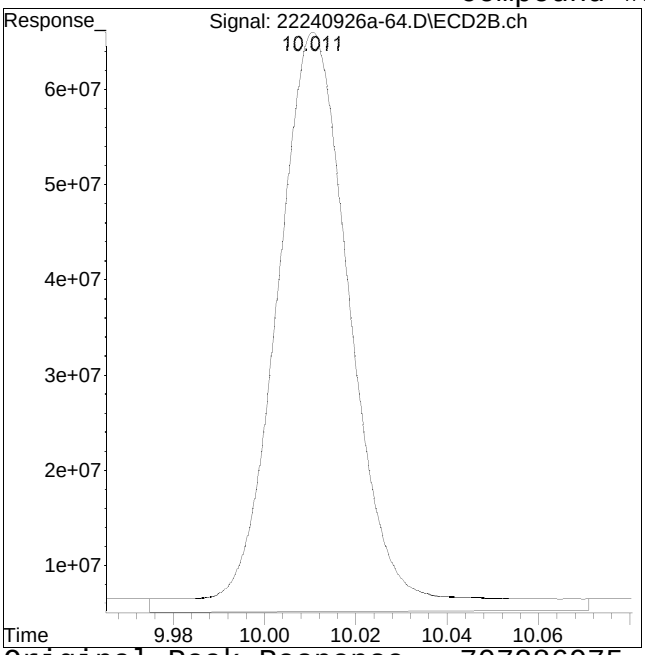
Manual Peak Response = 522521867 M4

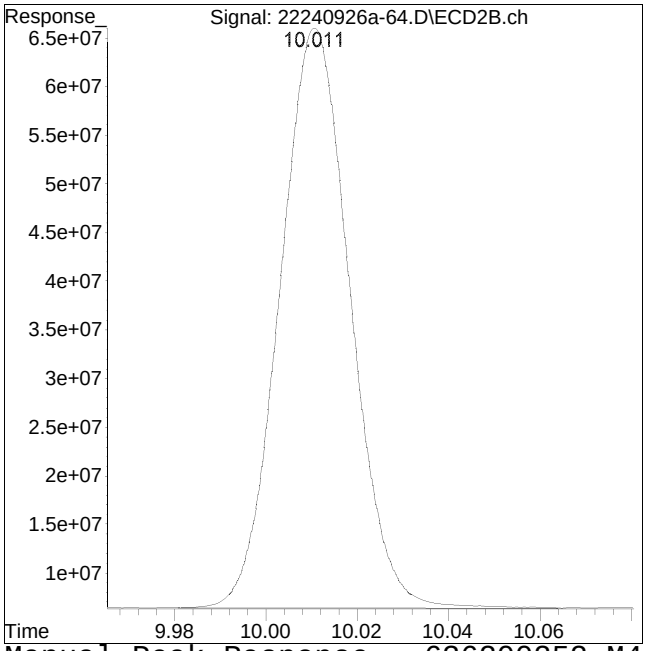
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-64.D Operator : pest22:akm
Date Inj'd : 9/27/2024 3:26 Instrument : Pest22
Sample : wg1976540-6,42,,herb11705 Quant Date : 9/27/2024 8:46 am

Compound #25: Dinoseb #2





Original Peak Response = 707286975 Manual Peak Response = 636200252 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-80.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2024 08:23
Operator : pest22:akm
Sample   : wg1976540-7,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1976540,,ical21511
ALS Vial : 80   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:03:20 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	4,4'-DBOB	^	1.000	1.000	0.0	110	0.00
2	t	Dalapon		0.234	0.231	1.3	105	0.00
3	s	DCAA (surrogate)		0.184	0.203	-10.3	117	0.00
4	t	Dicamba		0.568	0.614	-8.1	118	0.00
5	t	MCPP		0.00048	0.00052	-8.3	117	0.00
6	t	MCPA		0.00087	0.00097	-11.5	117	0.00
7	t	Dichloroprop		0.175	0.190	-8.6	115	0.00
8	t	2,4-D		0.213	0.231	-8.5	119	0.00
9	t	2,4,5-TP (Silvex)		0.772	0.837	-8.4	116	0.00
10	t	2,4,5-T		0.792	0.868	-9.6	119	0.00
11	t	2,4-DB		0.116	0.128	-10.3	120	0.00
12	t	Dinoseb		0.590	0.583	1.2	106	0.00

Signal #2

1	i	4,4'-DBOB	^	1.000	1.000	0.0	112	0.00
2	t	Dalapon		0.202	0.208	-3.0	106	0.00
3	s	DCAA (surrogate)		0.189	0.196	-3.7	114	0.00
4	t	Dicamba		0.534	0.565	-5.8	117	0.00
5	t	MCPP		0.00053	0.00055	-3.8	117	0.00
6	t	MCPA		0.00095	0.00102	-7.4	118	0.00
7	t	Dichloroprop		0.173	0.182	-5.2	115	0.00
8	t	2,4-D		0.222	0.237	-6.8	118	0.00
9	t	2,4,5-TP (Silvex)		0.776	0.826	-6.4	116	0.00
10	t	2,4,5-T		0.768	0.816	-6.2	118	0.00
11	t	2,4-DB		0.126	0.132	-4.8	116	0.00
12	t	Dinoseb		0.490	0.526	-7.3	117	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-80.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2024 08:23
Operator : pest22:akm
Sample   : wg1976540-7,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc   : wg1976540,,ical21511
ALS Vial : 80   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:03:20 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

Signal #2

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* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-80.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 08:23
Operator : pest22:akm
Sample : wg1976540-7,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1976540,,ical21511
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:03:20 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
		Internal Standards						
1)	i	4,4'-DBOB	8.437	8.436	1448.7E6	1832.0E6	0.250M4	0.250
		System Monitoring Compounds						
3)	s	DCAA (surrog	6.893	7.362	221.2E6	270.1E6	0.207M4	0.195M4
		Spiked Amount	0.500	Range	30 - 150	Recovery =	41.40%	39.00%
		Target Compounds						
2)	t	Dalapon	2.324	2.320	243.5E6	277.8E6	0.180M3	0.188
4)	t	Dicamba	7.074	7.542	669.4E6	779.0E6	0.204M4	0.199
5)	t	MCPP	7.276	7.654	56487228	75242910	20.159	19.552M4
6)	t	MCPA	7.422	7.881	104.4E6	138.5E6	20.709	19.832M4
7)	t	Dichloroprop	7.777	8.200	206.7E6	251.0E6	0.204	0.198M4
8)	t	2,4-D	7.990	8.477	251.8E6	326.7E6	0.204	0.201
9)	t	2,4,5-TP (Si	8.708	9.136	921.5E6	1149.4E6	0.206	0.202
10)	t	2,4,5-T	8.930	9.426	955.8E6	1136.5E6	0.208	0.202
11)	t	2,4-DB	9.337	9.788	142.9E6	185.5E6	0.213M4	0.201
12)	t	Dinoseb	10.086	10.011	642.2E6	732.5E6	0.188M4	0.204M4
		SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-80.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 08:23
Operator : pest22:akm
Sample : wg1976540-7,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1976540,,ical21511
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:03:20 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l

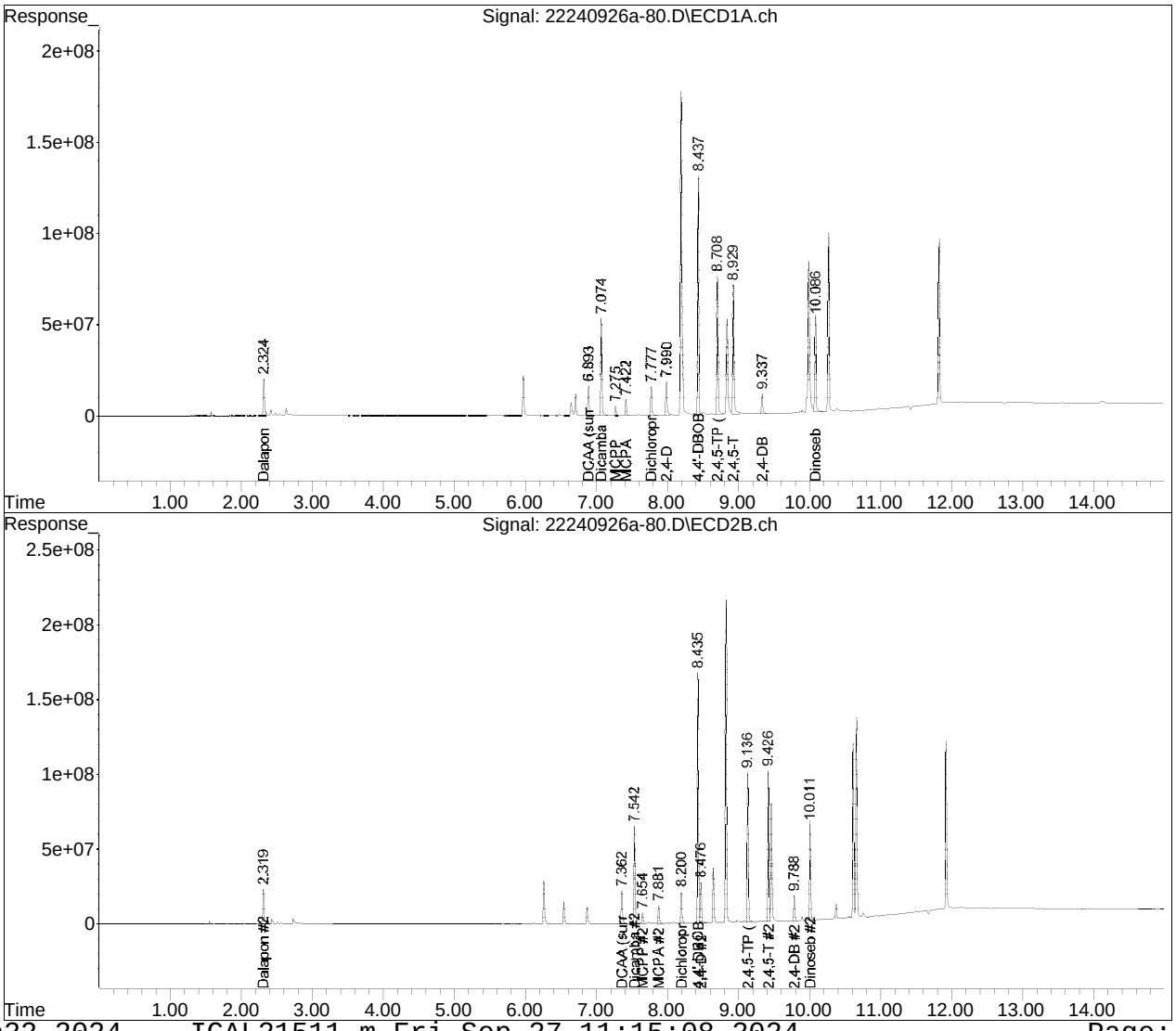
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-80.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 08:23
Operator : pest22:akm
Sample : wg1976540-7,42,,herb11705 (Sig #1); herb11705 (Sig #2)
Misc : wg1976540,,ical21511
ALS Vial : 80 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 11:03:20 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

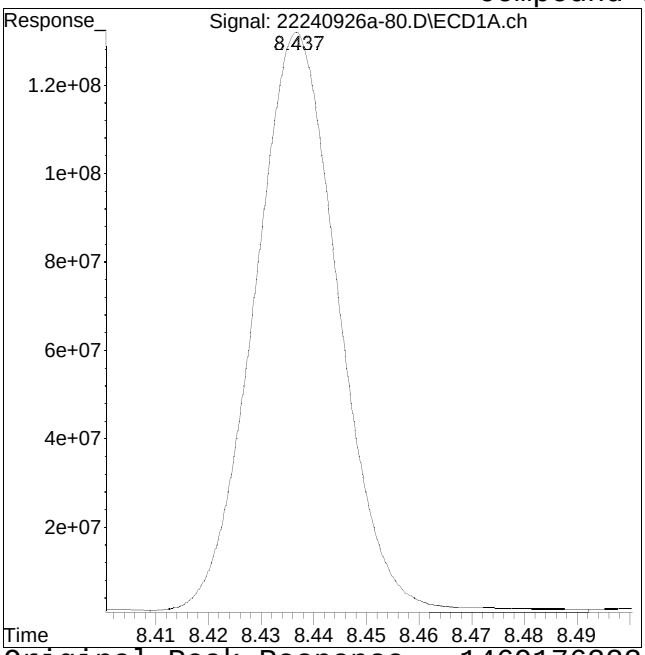
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

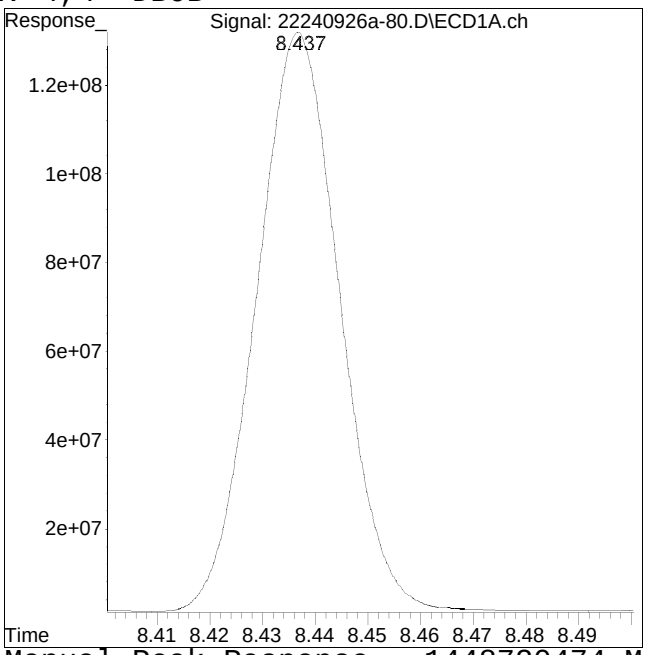


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #1: 4,4'-DBOB



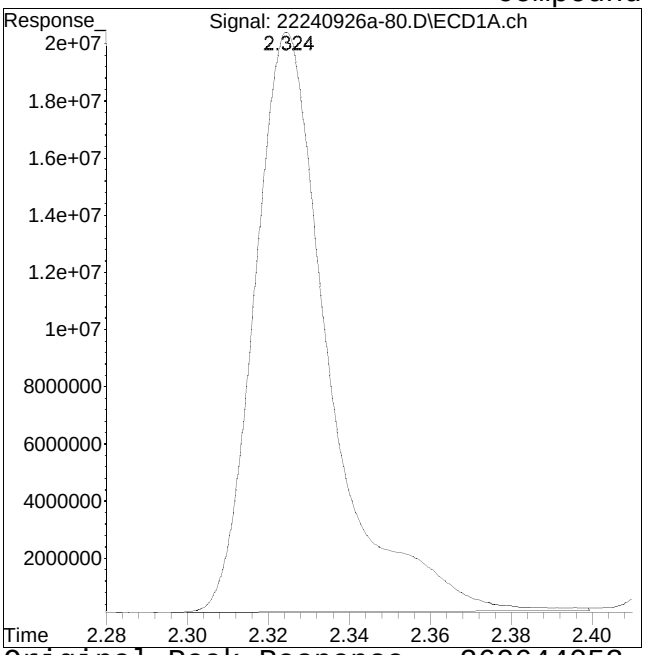


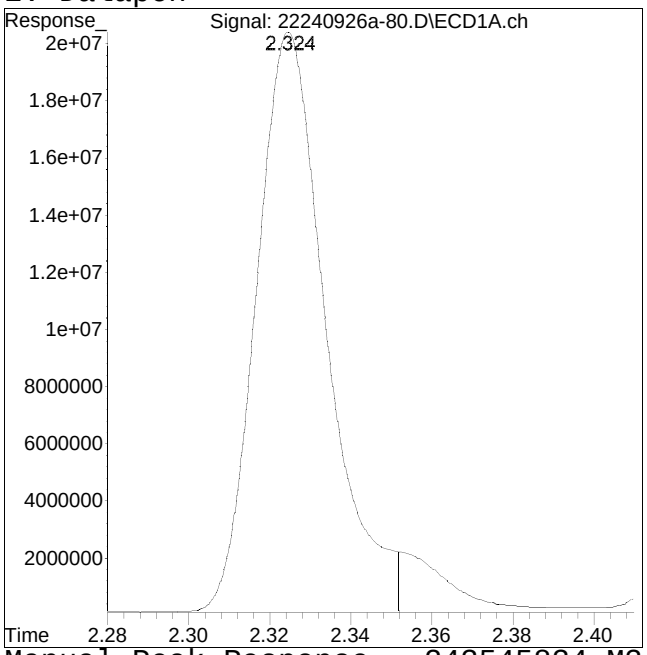
Original Peak Response = 1469176223 Manual Peak Response = 1448720474 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #2: Dalapon



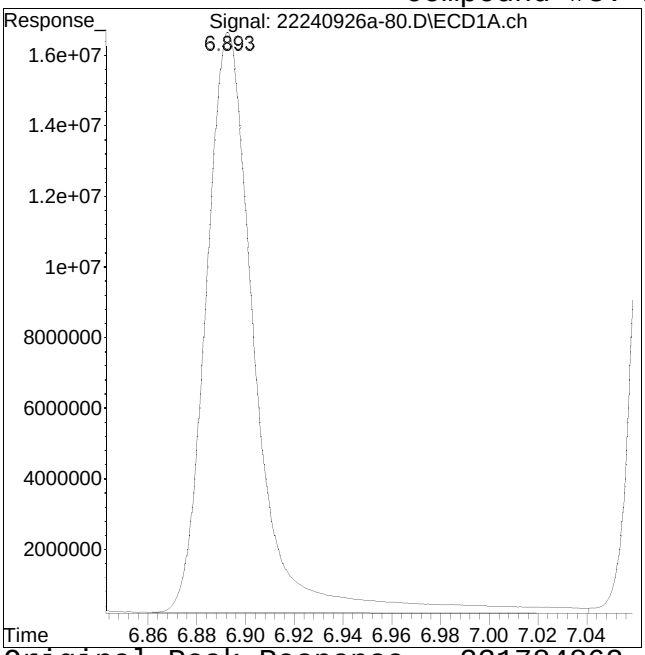


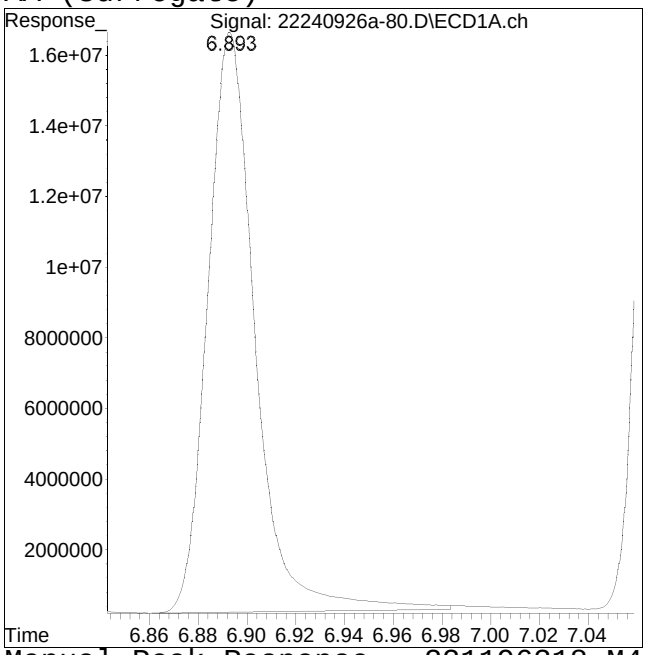
Original Peak Response = 260644053 Manual Peak Response = 243545834 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #3: DCAA (surrogate)



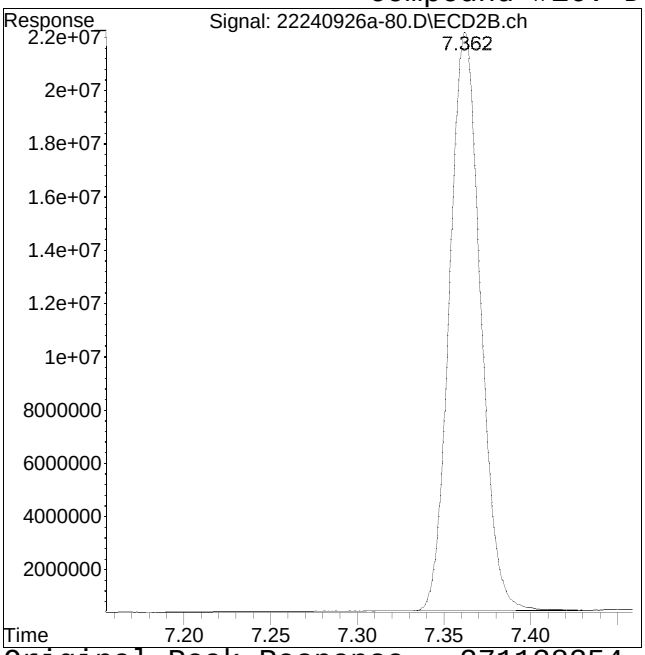


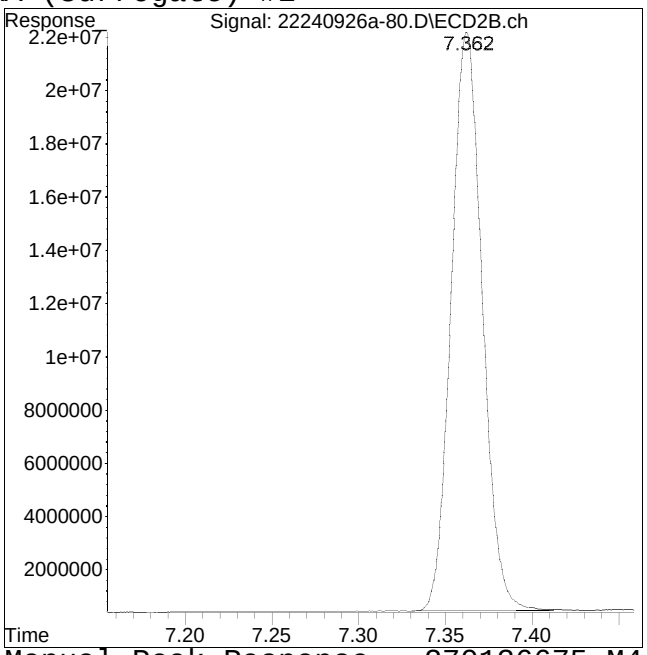
Original Peak Response = 231784862 Manual Peak Response = 221196318 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #16: DCAA (surrogate) #2



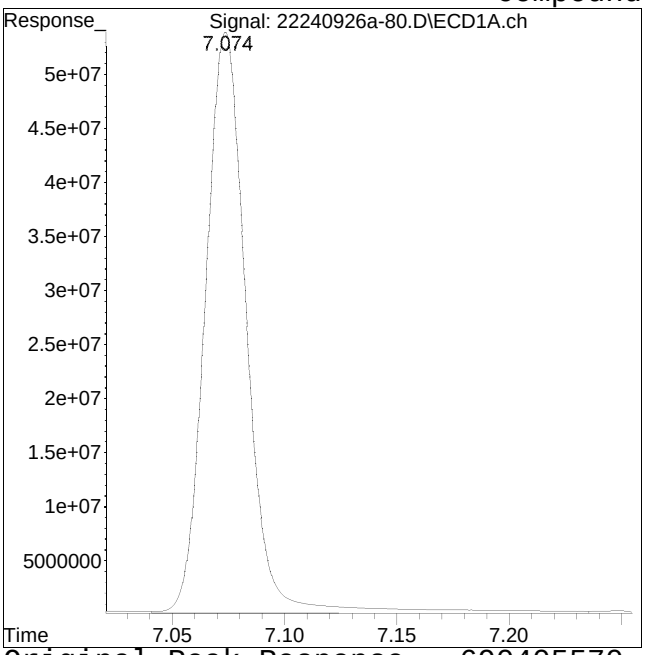


Original Peak Response = 271138354 Manual Peak Response = 270136675 M4
M4 = Poor automated baseline construction.

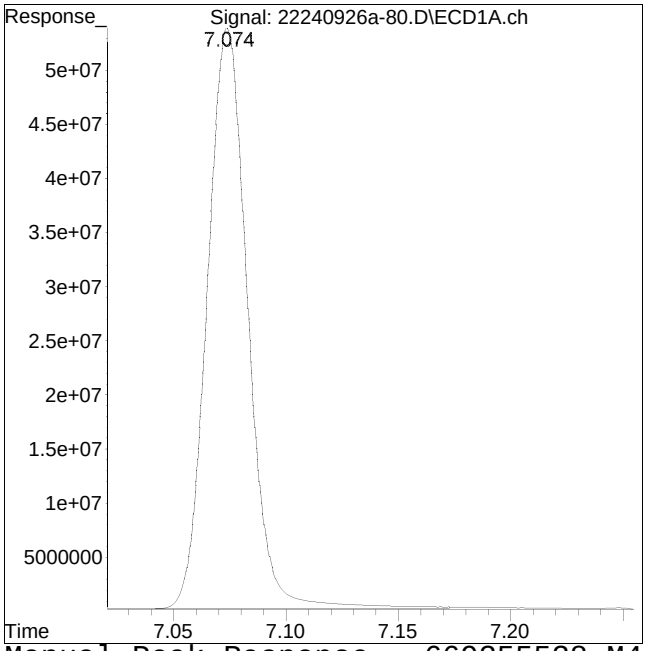
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #4: Dicamba



Original Peak Response = 690405570



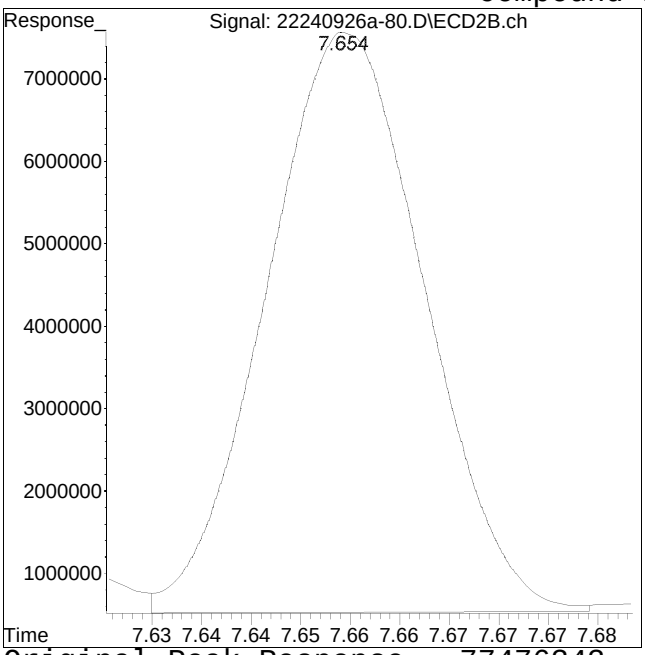
Manual Peak Response = 669355538 M4

M4 = Poor automated baseline construction.

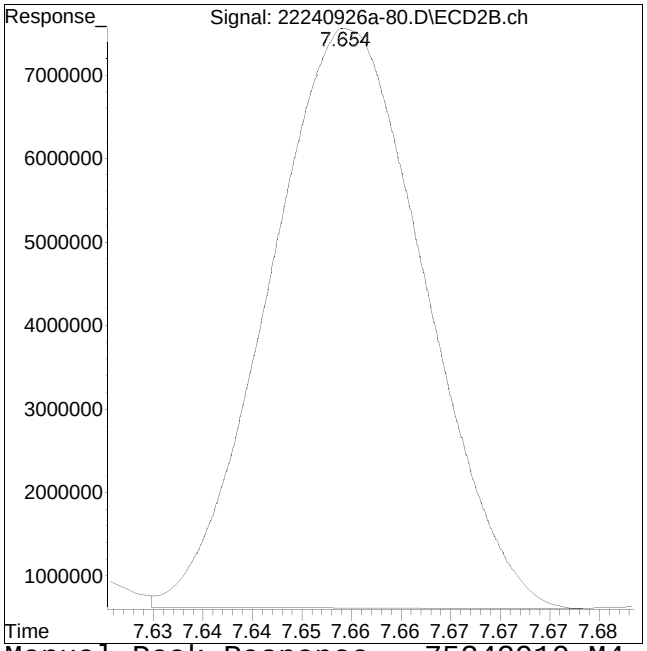
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #18: MCPP #2



Original Peak Response = 77476343



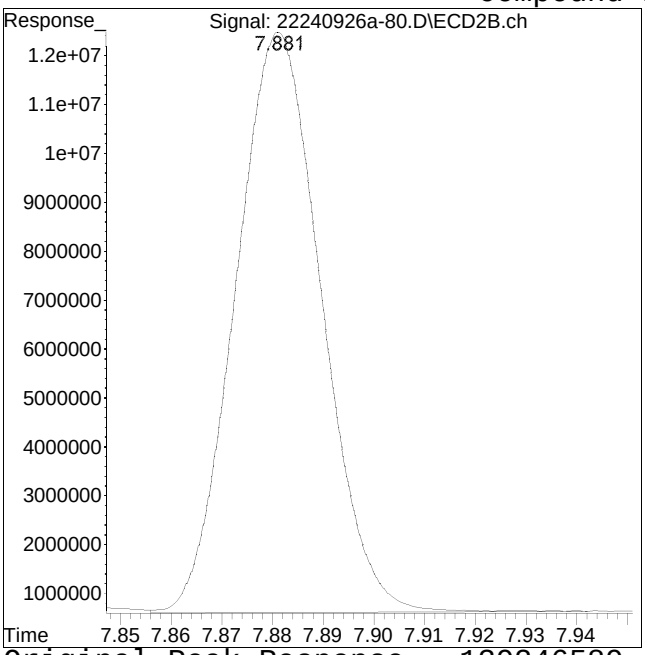
Manual Peak Response = 75242910 M4

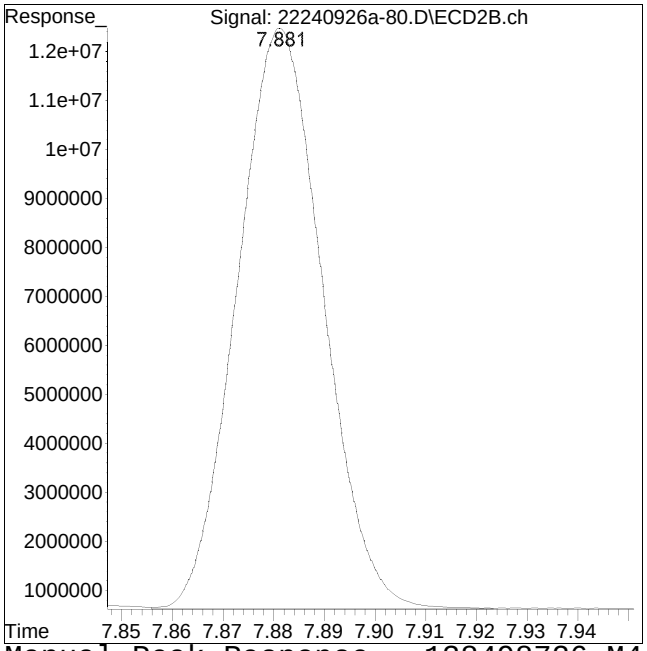
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #19: MCPA #2



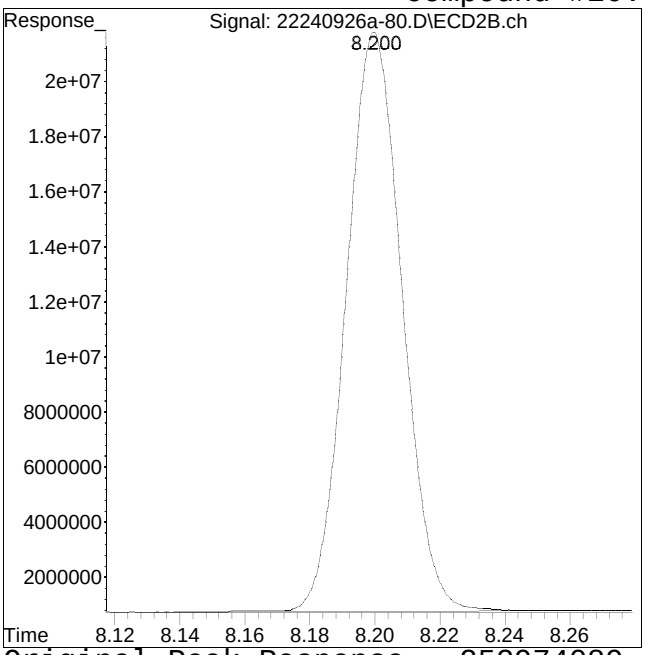


Original Peak Response = 139246589 Manual Peak Response = 138498726 M4
M4 = Poor automated baseline construction.

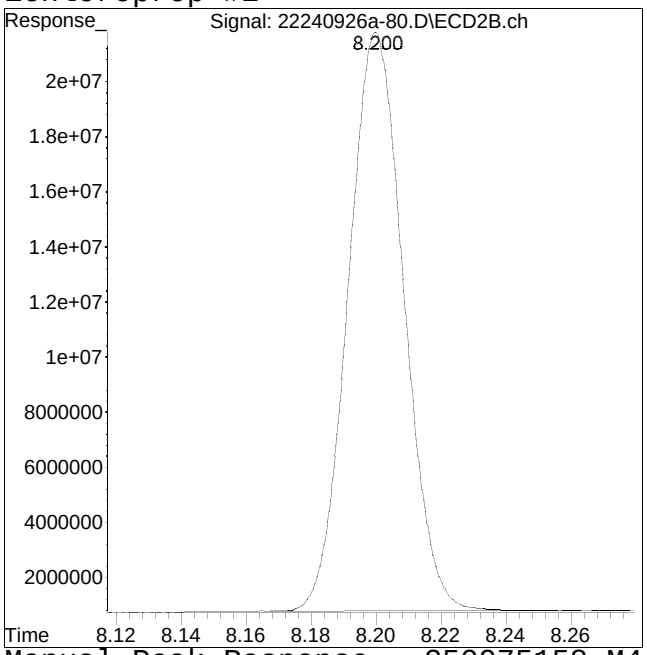
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #20: Dichloroprop #2



Original Peak Response = 252974089



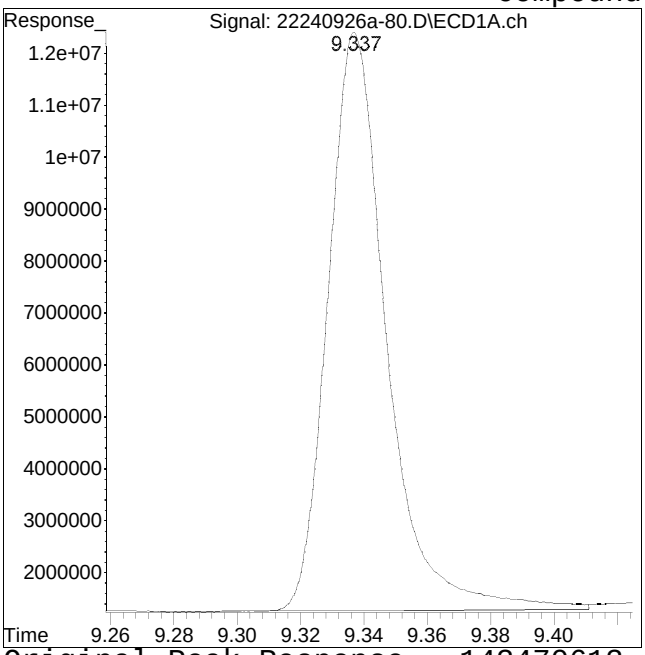
Manual Peak Response = 250975158 M4

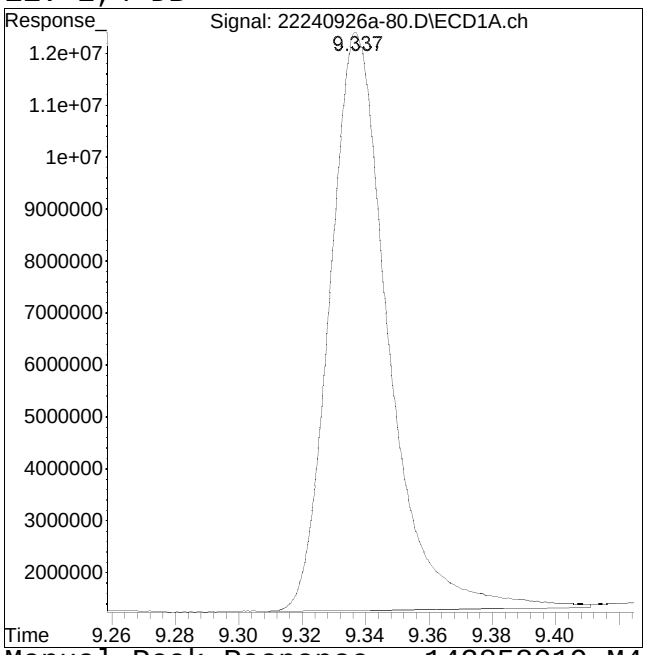
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #11: 2,4-DB



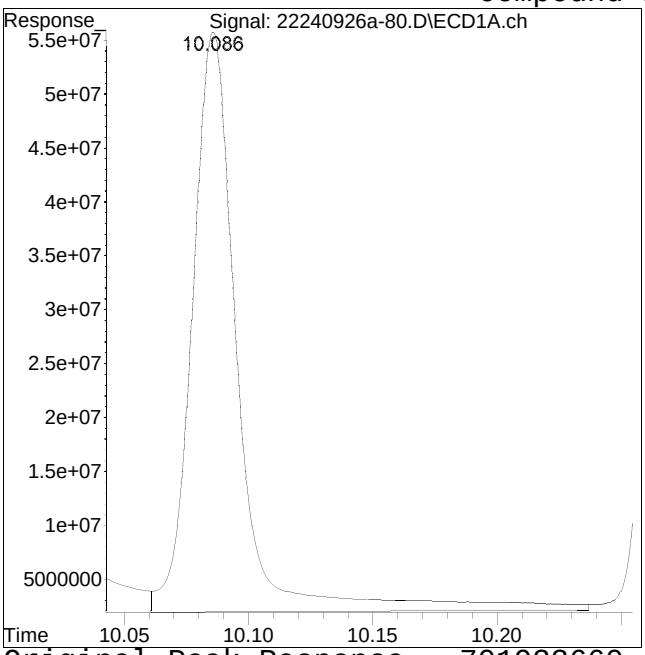


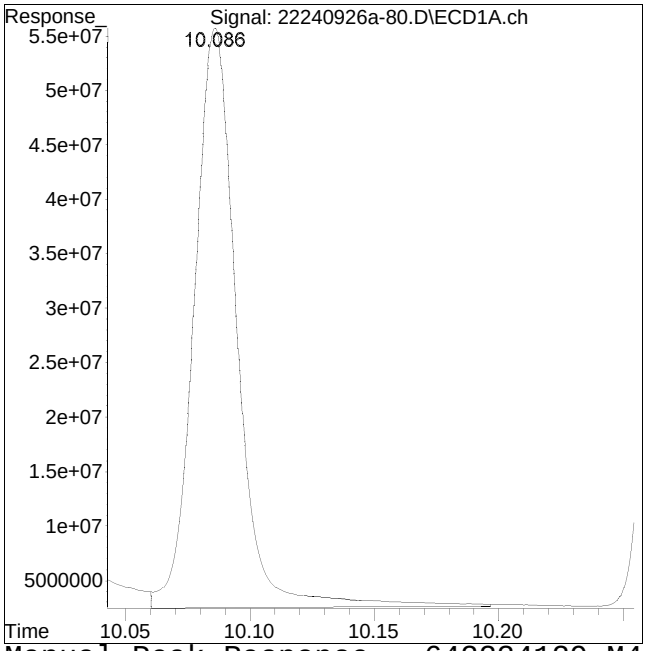
Original Peak Response = 143470613 Manual Peak Response = 142858019 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #12: Dinoseb



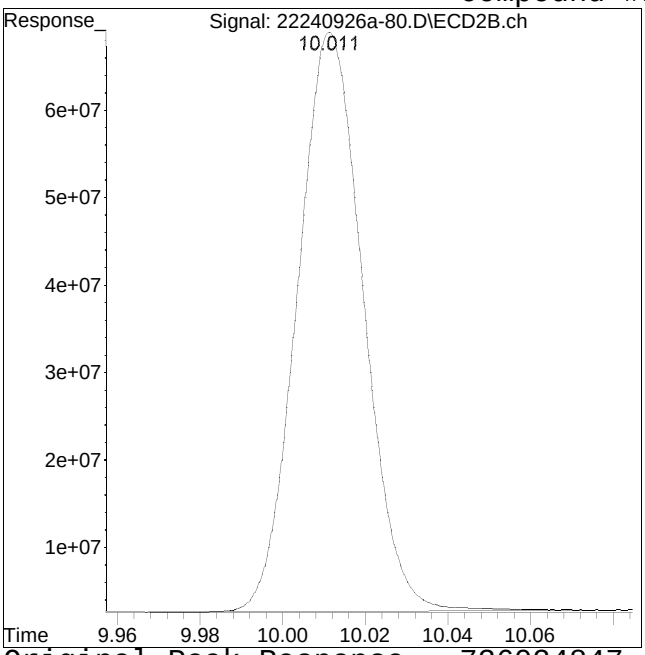


Original Peak Response = 701933660 Manual Peak Response = 642234129 M4
M4 = Poor automated baseline construction.

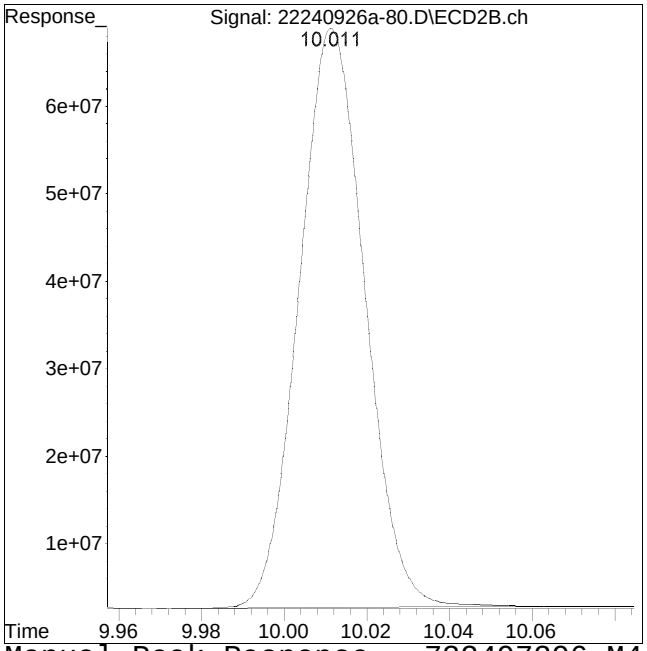
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-80.D Operator : pest22:akm
Date Inj'd : 9/27/2024 8:23 Instrument : Pest22
Sample : wg1976540-7,42,,herb11705 Quant Date : 9/27/2024 11:03 am

Compound #25: Dinoseb #2



Original Peak Response = 736024847



Manual Peak Response = 732497296 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Herbicides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 7:44
Operator : pest16:emr
Sample : WG1975468-1,42,, 5468 (Sig #1); WG1975469-1,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:29 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-02.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.458	8.376	1015.9E6	1247.8E6	0.250	0.250M4
	Standard Area 1 : #1 = 1066579449				Recovery =	95.24%	
	Standard Area 1 : #2 = 1286988911				Recovery =	96.96%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.894	7.285	347.6E6	407.5E6	0.456M4	0.428
	Spiked Amount	0.500	Range 30 - 150		Recovery =	91.20%	85.60%
Target Compounds							
2) t	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
4) t	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
5) t	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
6) t	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
7) t	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
8) t	2,4-D	0.000	0.000	0	0	N.D. d	N.D. d
9) t	2,4,5-TP (Si	0.000	0.000	0	0	N.D. d	N.D. d
10) t	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
11) t	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

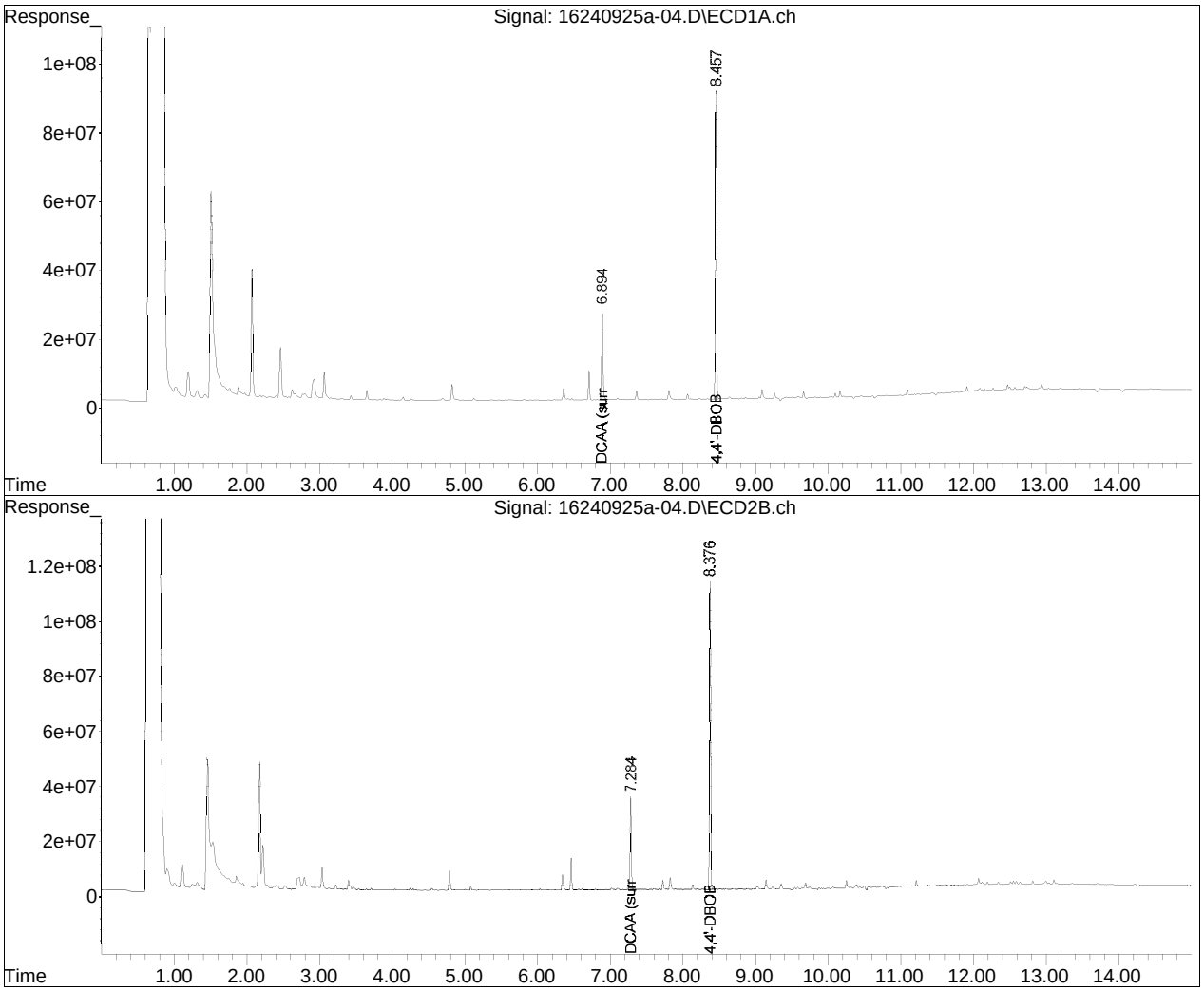
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-02.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-04.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 7:44
Operator : pest16:emr
Sample : WG1975468-1,42,, 5468 (Sig #1); WG1975469-1,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:29 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

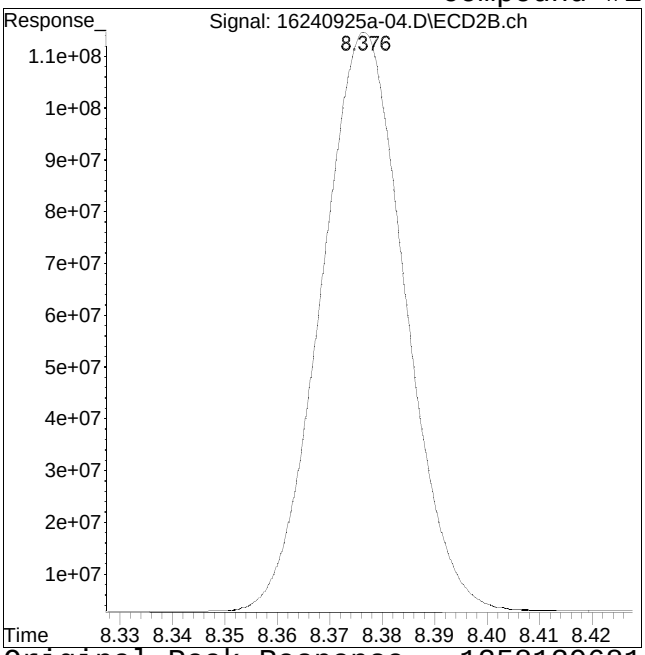
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

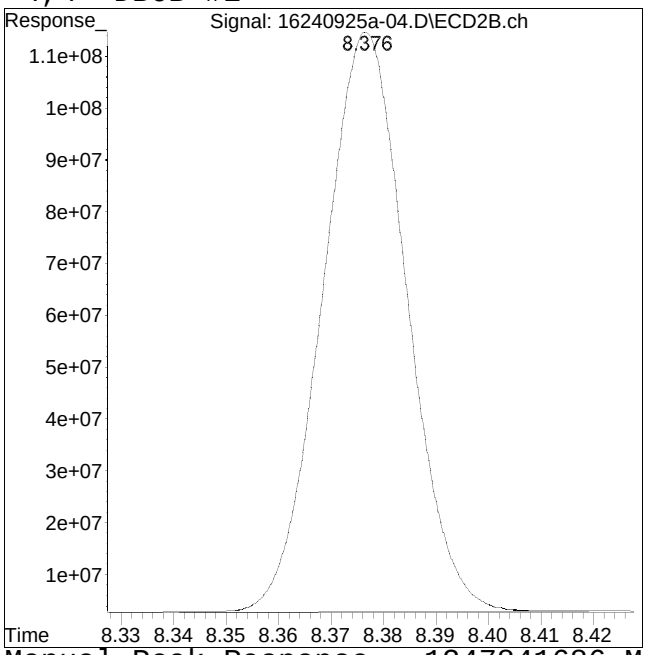


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-04.D Operator : pest16:emr
Date Inj'd : 9/25/2024 7:44 Instrument : PEST16
Sample : WG1975468-1,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #14: 4,4'-DBOB #2



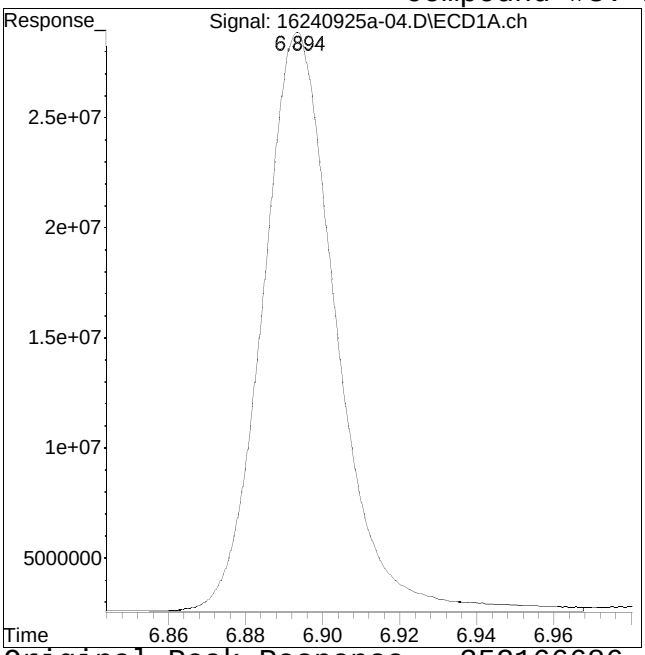


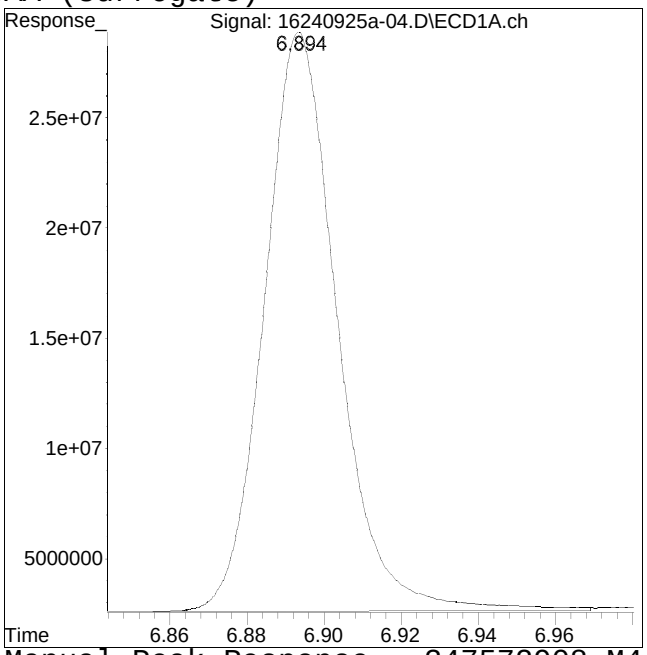
Original Peak Response = 1258129681 Manual Peak Response = 1247841686 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-04.D Operator : pest16:emr
Date Inj'd : 9/25/2024 7:44 Instrument : PEST16
Sample : WG1975468-1,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #3: DCAA (surrogate)





Original Peak Response = 352166686 Manual Peak Response = 347572908 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 8:11
Operator : pest16:emr
Sample : WG1975468-2,42,, 5468 (Sig #1); WG1975469-2,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:31 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.462f	8.378	1048.9E6	1244.5E6	0.250M4	0.250
Standard Area 1 : #1 = 1066579449				Recovery =	98.34%	
Standard Area 1 : #2 = 1286988911				Recovery =	96.70%	
System Monitoring Compounds						
3) s DCAA (surrog	6.899f	7.287	360.1E6	483.8E6	0.458	0.510
Spiked Amount	0.500	Range 30 - 150		Recovery =	91.60%	102.00%
Target Compounds						
2) t Dalapon	1.913f	1.865f	326.6E6	411.8E6	0.378M4	0.426M4
4) t Dicamba	7.082f	7.466	1266.4E6	1470.3E6	0.514	0.520
5) t MCPP	7.290f	7.585	157.3E6	196.3E6	57.773	45.939M4
6) t MCPA	7.438f	7.816	237.0E6	348.7E6	53.813	58.458
7) t Dichloroprop	7.795f	8.136	410.1E6	460.6E6	0.546M4	0.509
8) t 2,4-D	8.009	8.416	455.3E6	596.3E6	0.545M4	0.519
9) t 2,4,5-TP (Si	8.734	9.085	1656.2E6	1958.9E6	0.514M4	0.484
10) t 2,4,5-T	8.957	9.379	1688.2E6	2021.2E6	0.530M4	0.651M4
11) t 2,4-DB	9.368	9.745	243.9E6	303.6E6	0.561M4	0.512M4
12) t Dinoseb	10.123	9.969	843.5E6	888.6E6	0.329M4	0.391M4
SemiQuant Compounds - Not Calibrated on this Instrument						

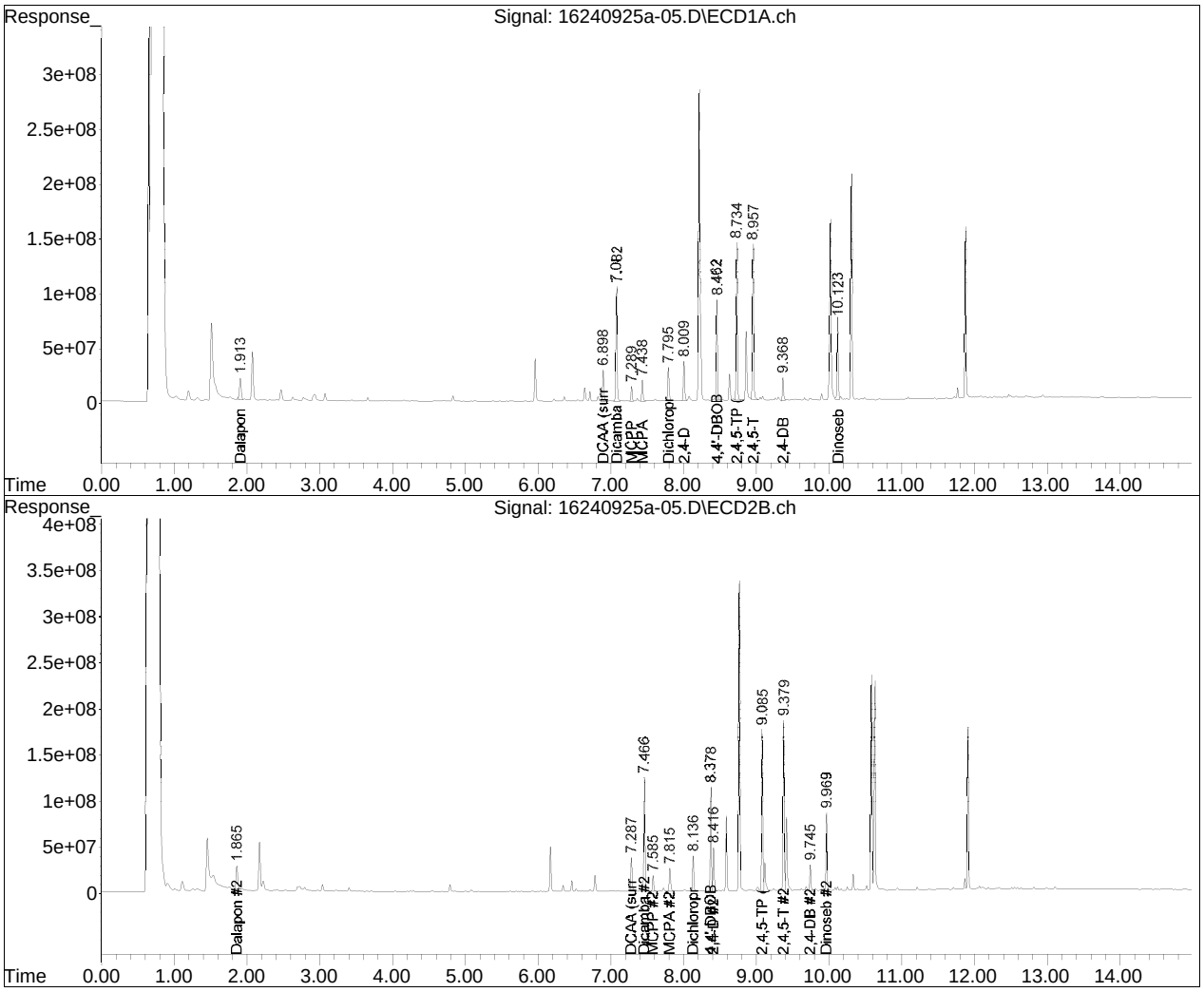
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed\16240925a-02.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-05.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 8:11
Operator : pest16:emr
Sample : WG1975468-2,42,, 5468 (Sig #1); WG1975469-2,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:31 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

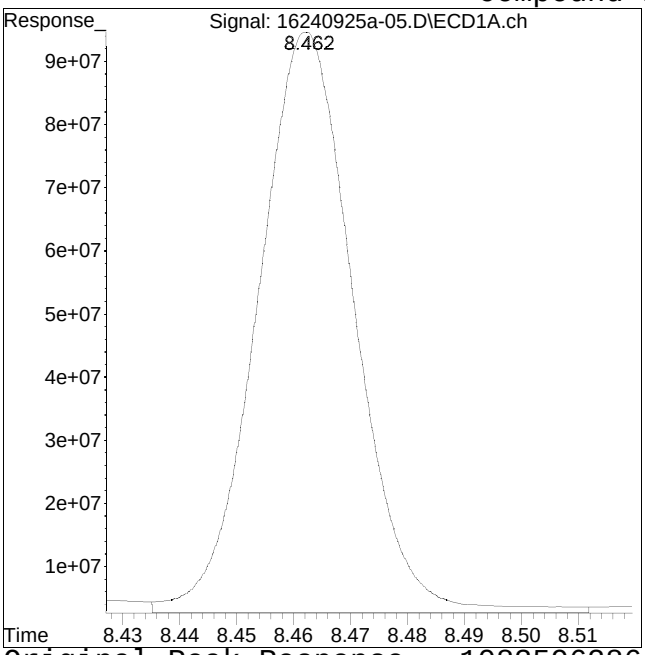
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

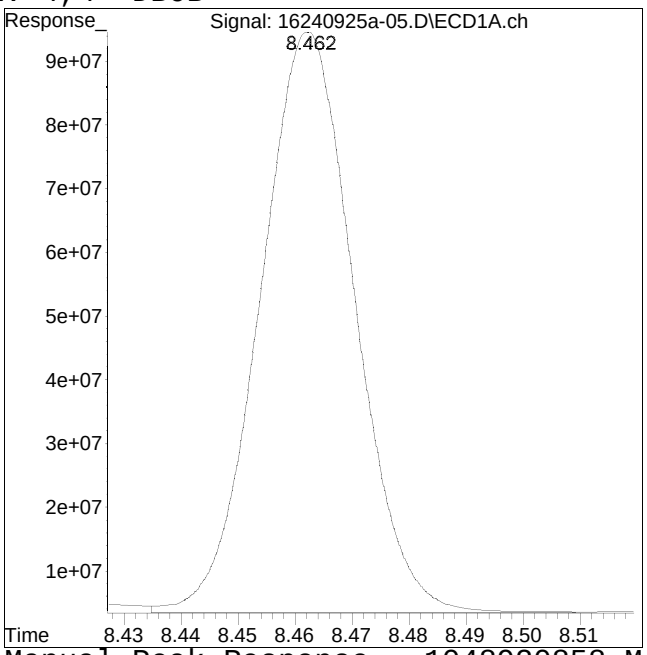


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #1: 4,4'-DBOB



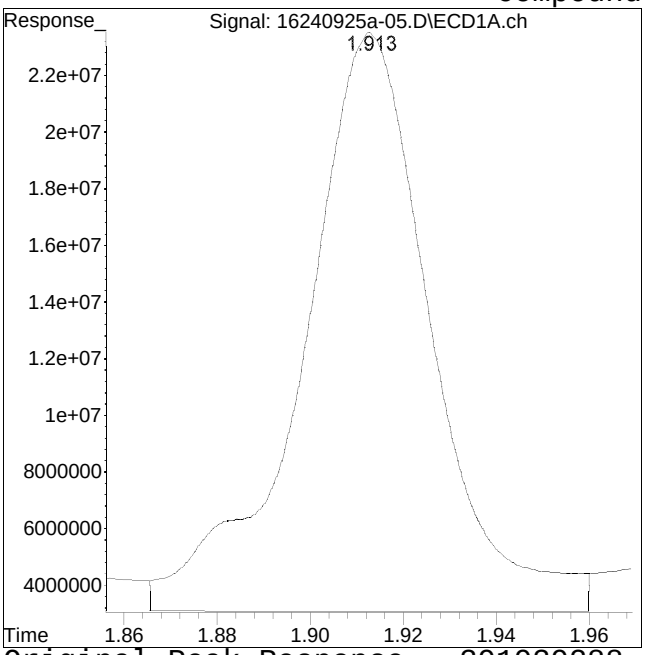


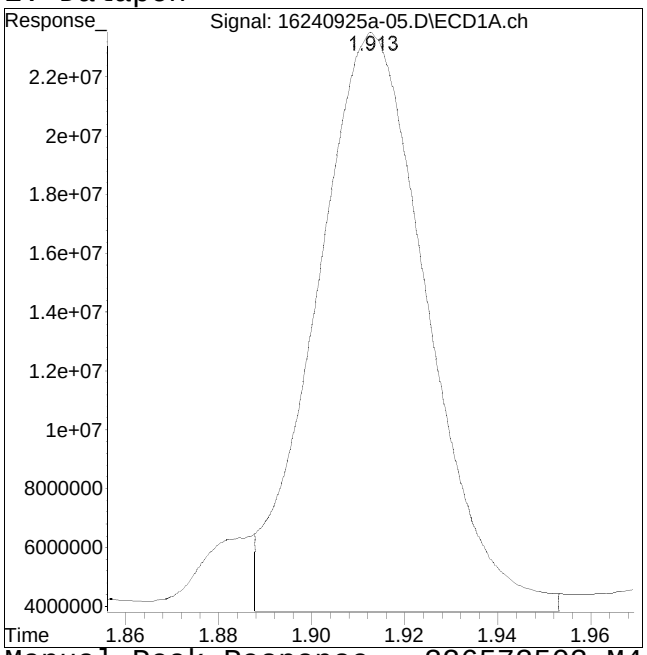
Original Peak Response = 1083596286 Manual Peak Response = 1048920858 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #2: Dalapon



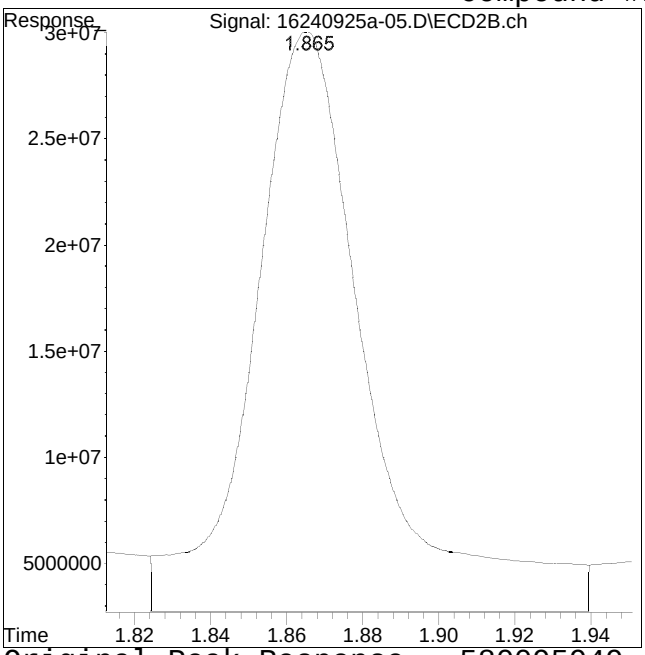


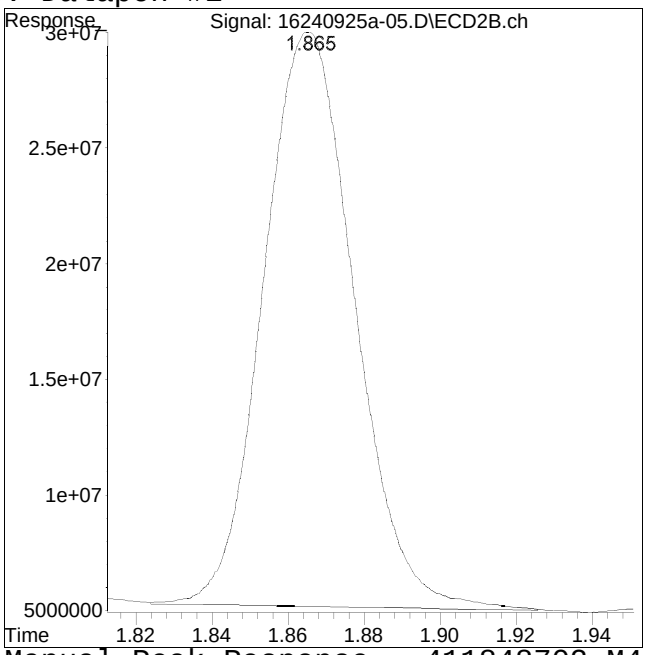
Original Peak Response = 391939288 Manual Peak Response = 326573503 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #15: Dalapon #2



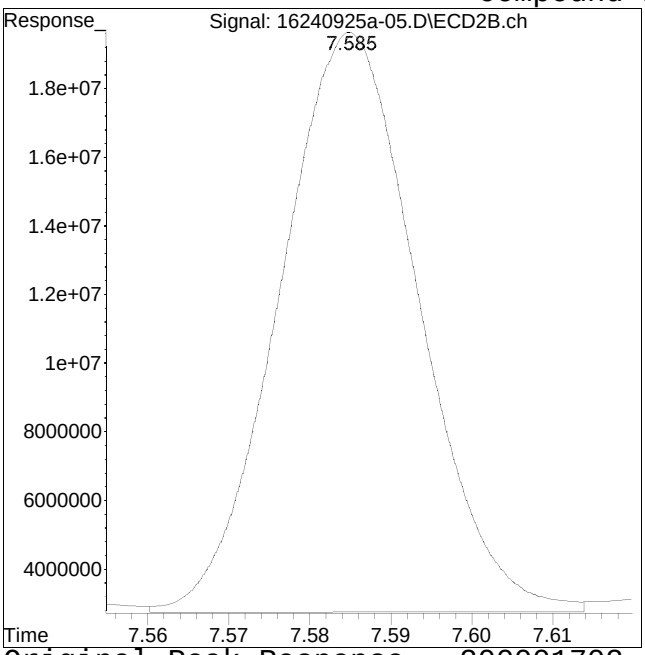


Original Peak Response = 580095949 Manual Peak Response = 411848702 M4
M4 = Poor automated baseline construction.

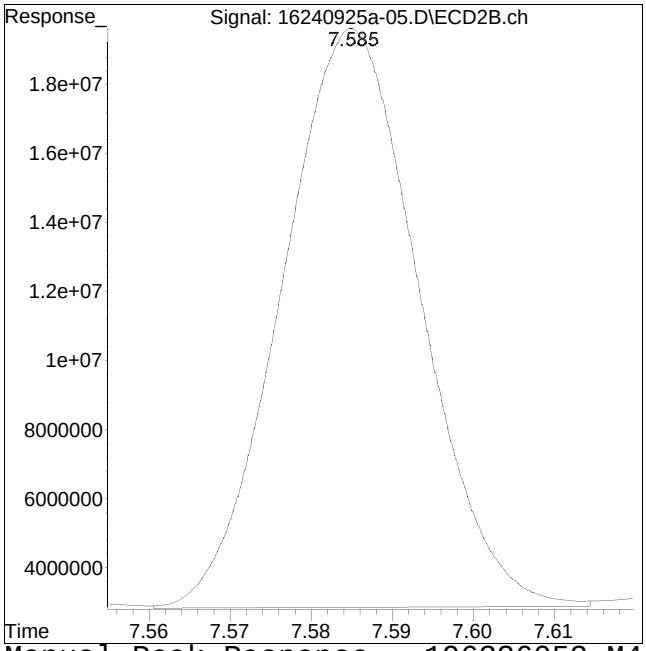
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #18: MCPP #2



Original Peak Response = 200001702



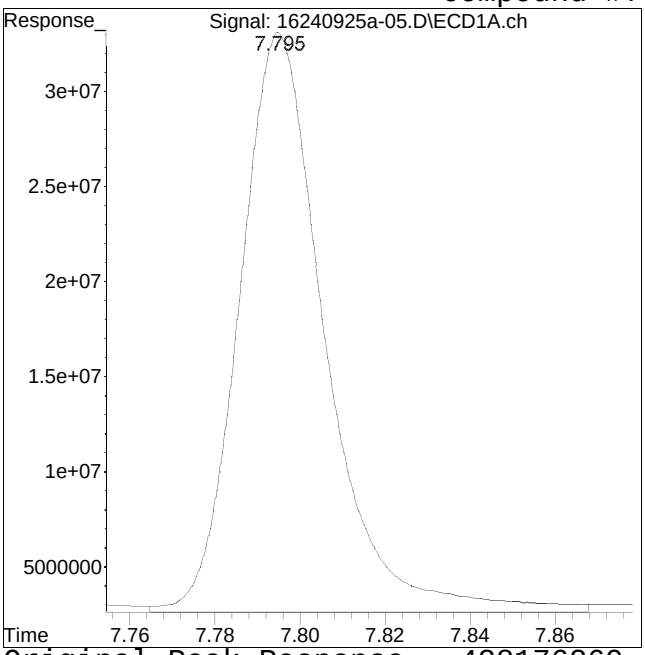
Manual Peak Response = 196336052 M4

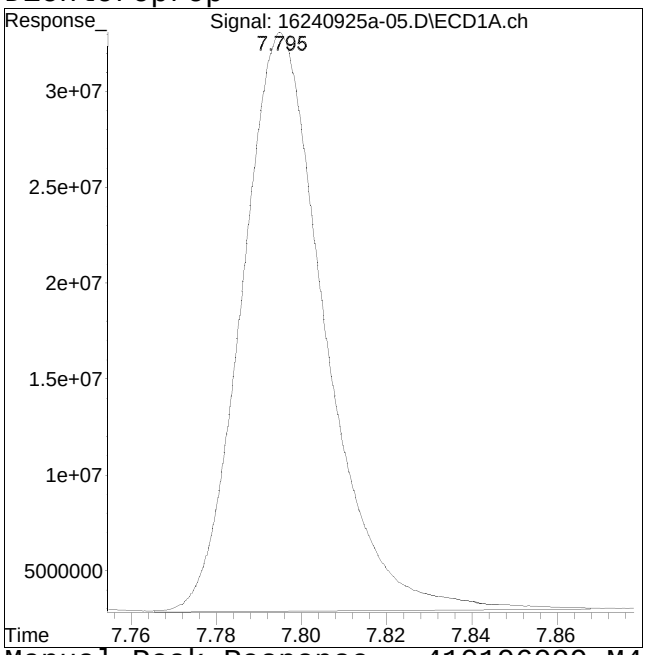
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #7: Dichloroprop



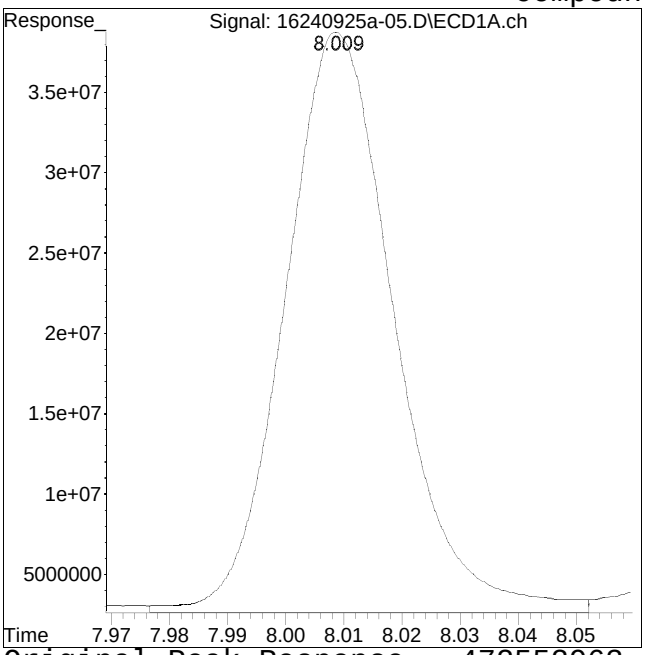


Original Peak Response = 428176269 Manual Peak Response = 410106099 M4
M4 = Poor automated baseline construction.

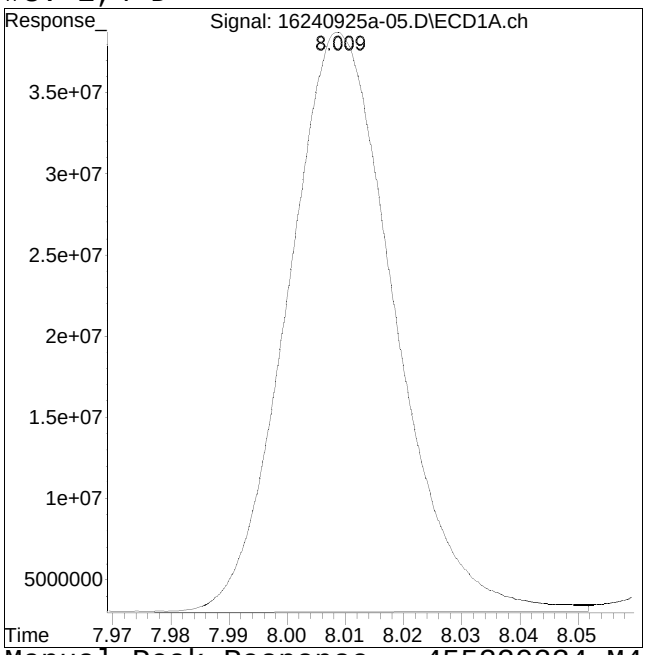
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #8: 2,4-D



Original Peak Response = 472552963



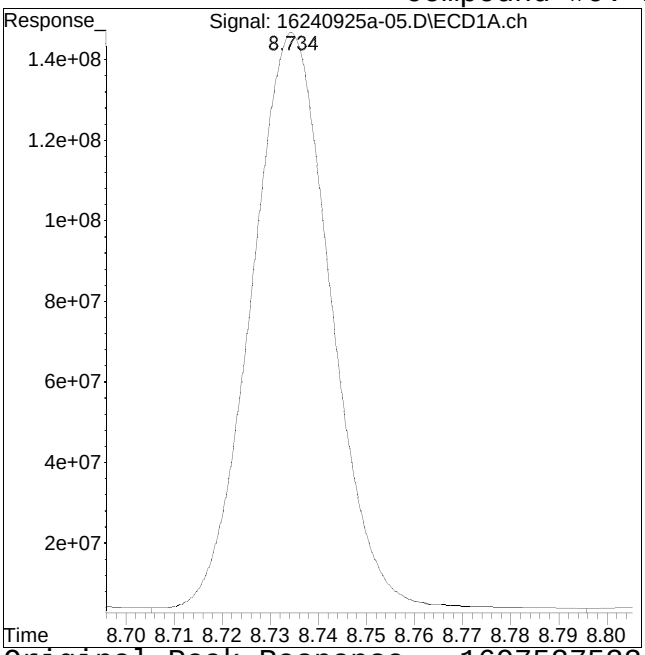
Manual Peak Response = 455320234 M4

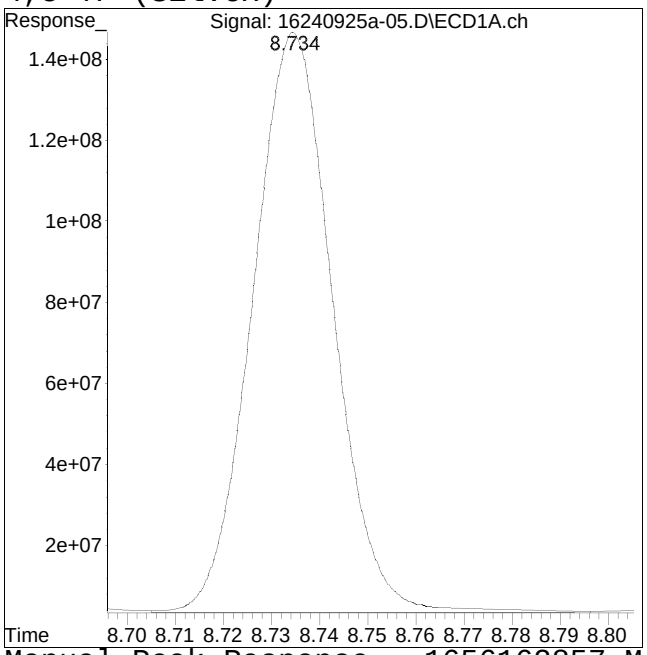
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #9: 2,4,5-TP (Silvex)



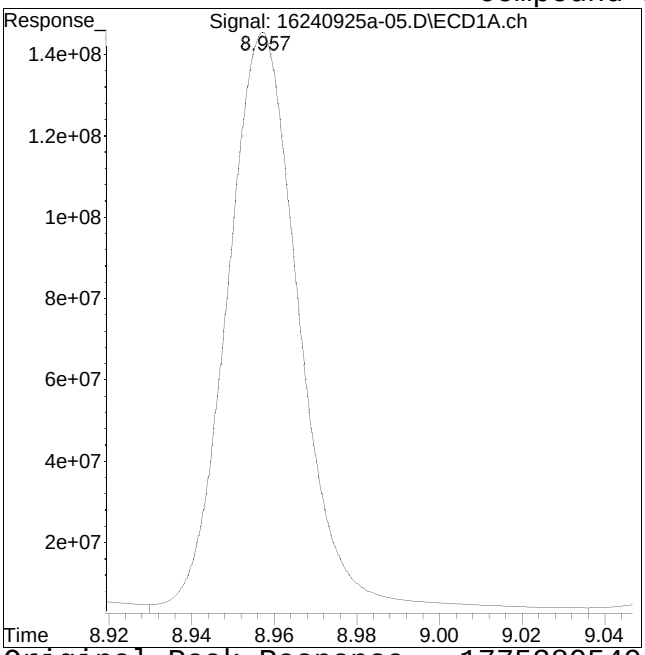


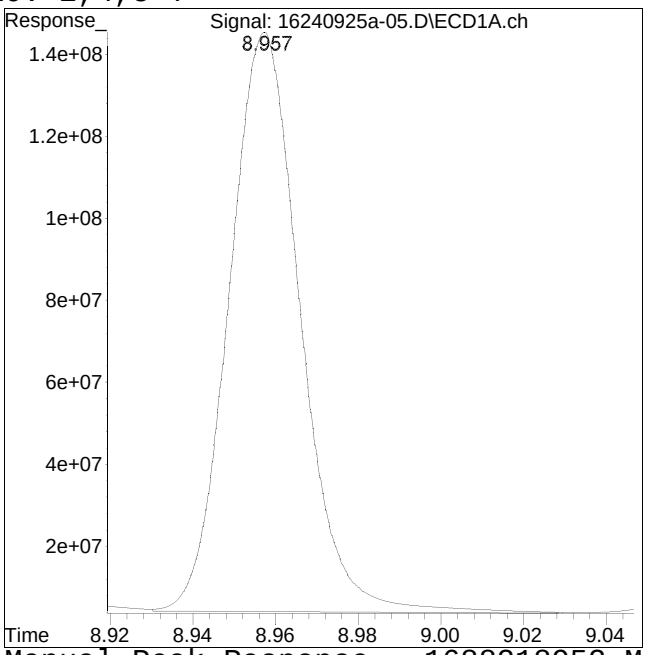
Original Peak Response = 1697527533 Manual Peak Response = 1656162857 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #10: 2,4,5-T



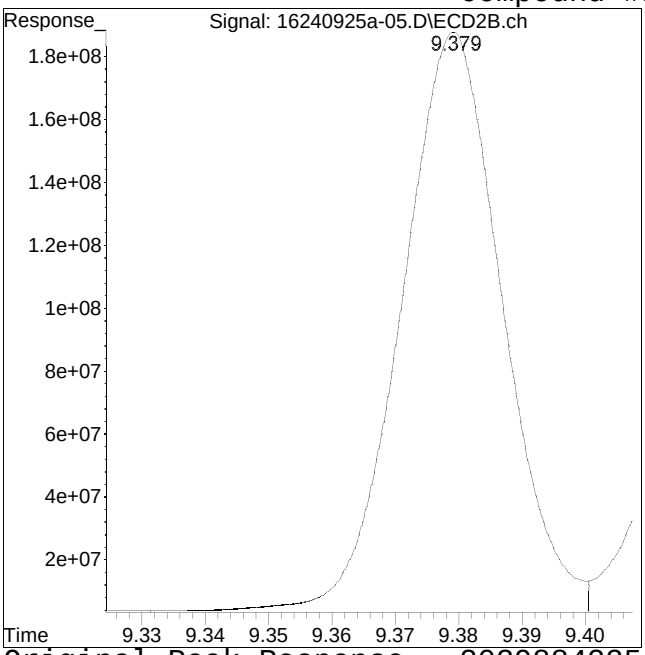


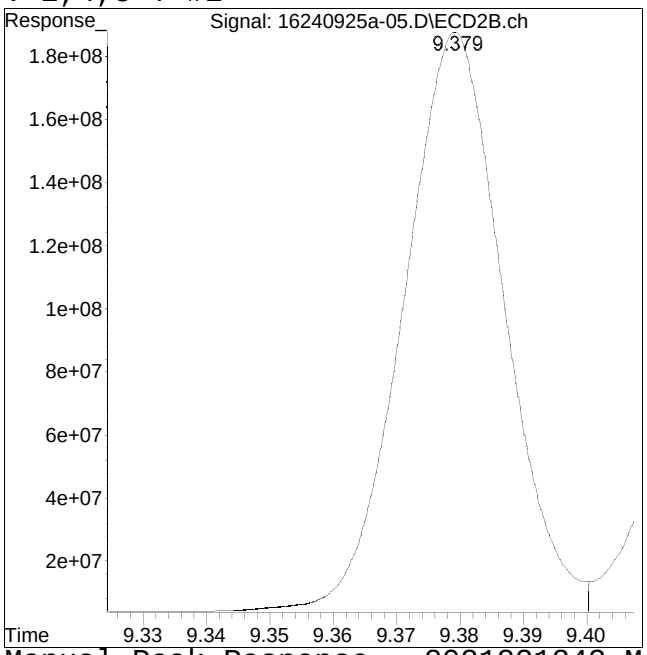
Original Peak Response = 1775389549 Manual Peak Response = 1688218952 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #23: 2,4,5-T #2



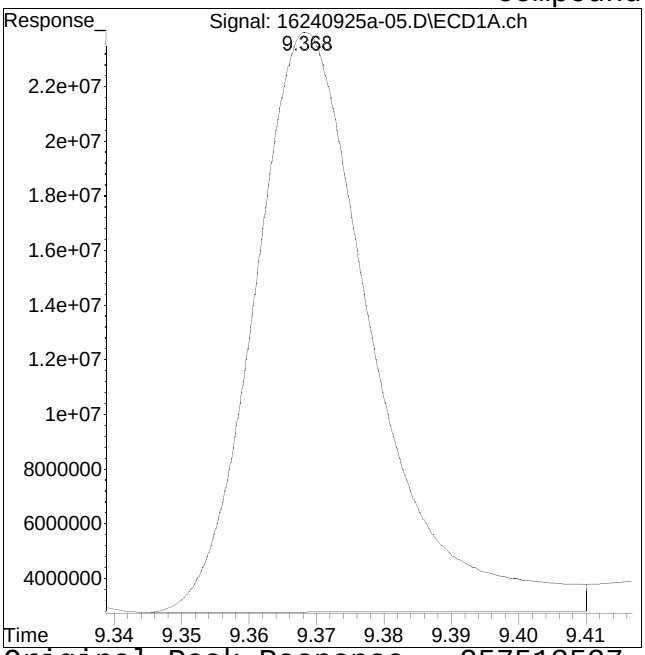


Original Peak Response = 2039884225 Manual Peak Response = 2021221243 M4
M4 = Poor automated baseline construction.

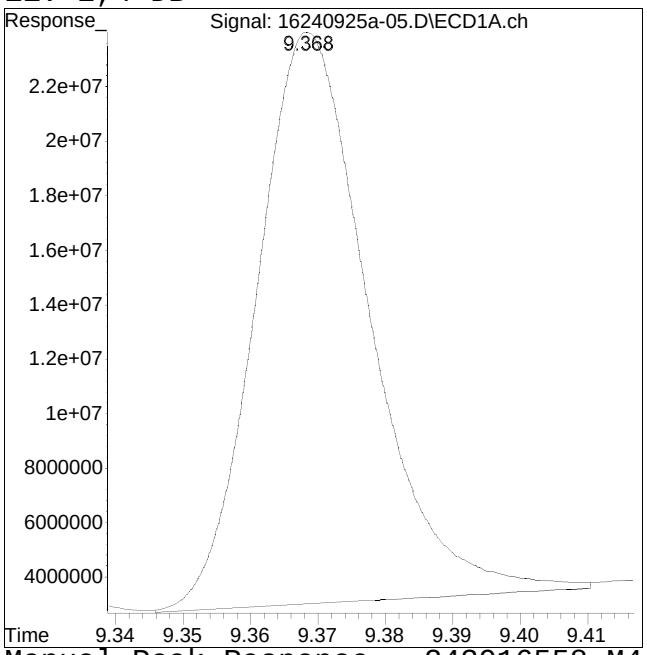
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #11: 2,4-DB



Original Peak Response = 257513527



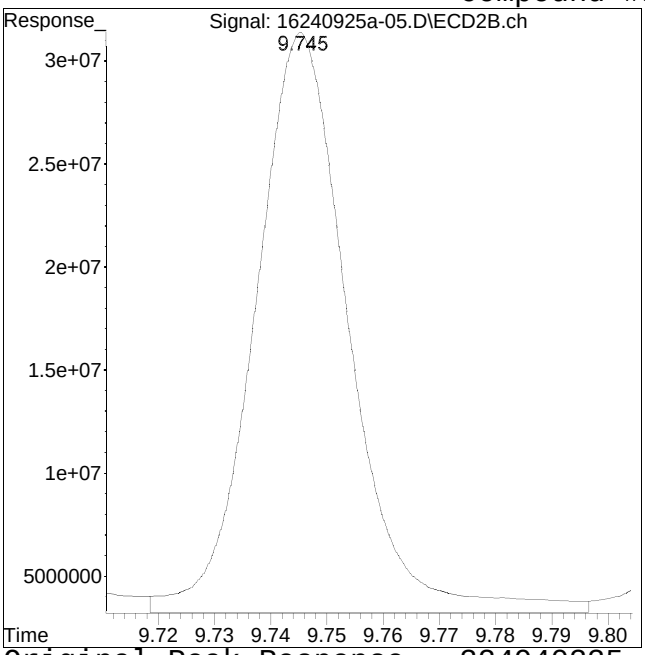
Manual Peak Response = 243916558 M4

M4 = Poor automated baseline construction.

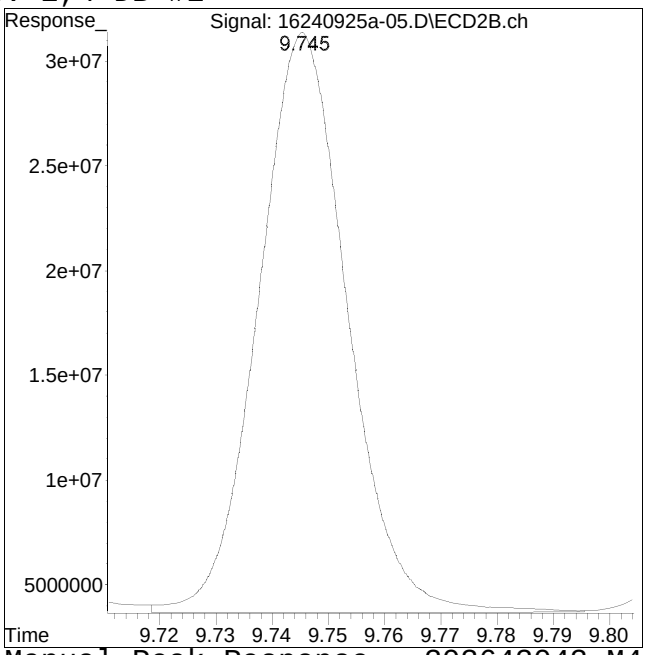
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #24: 2,4-DB #2



Original Peak Response = 324940335

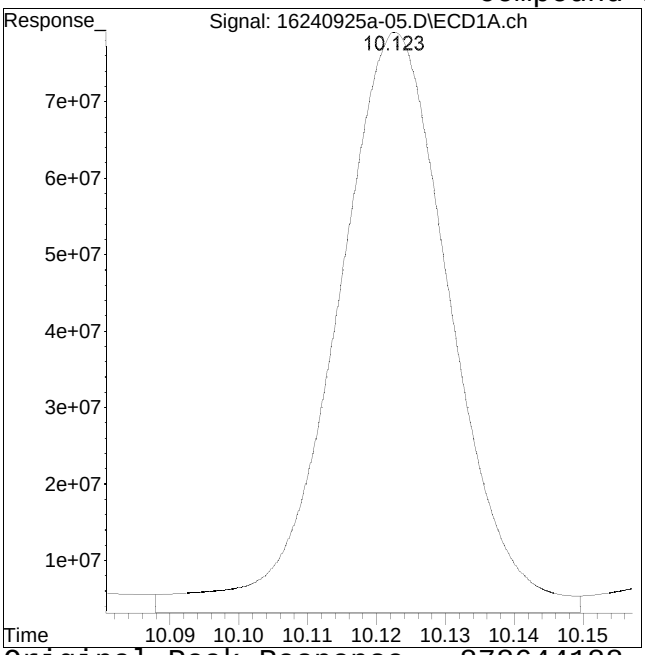


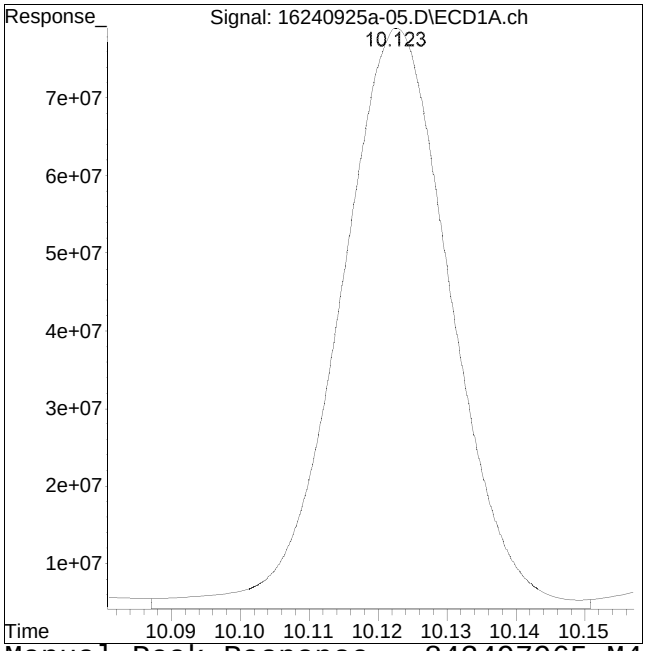
Manual Peak Response = 303643043 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #12: Dinoseb



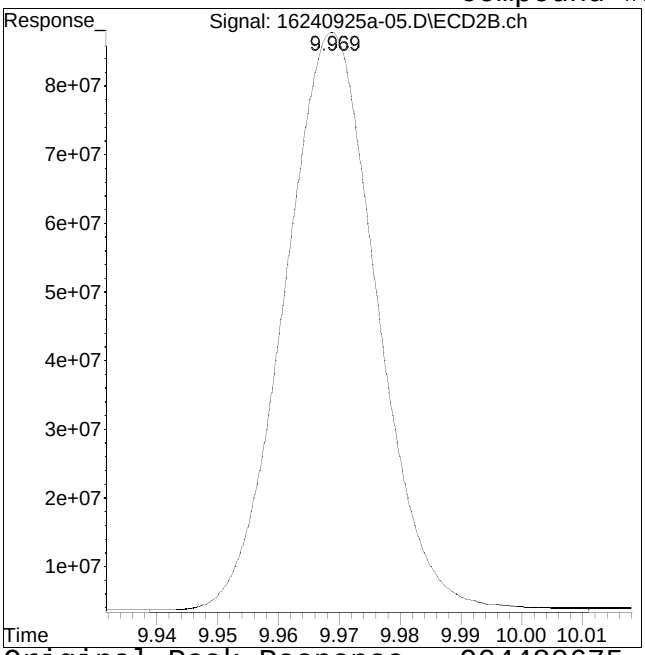


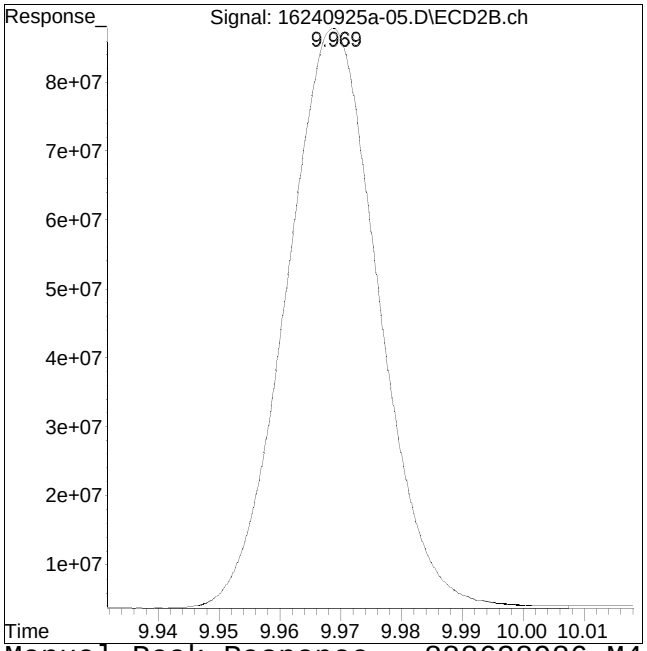
Original Peak Response = 878644188 Manual Peak Response = 843497965 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-05.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:11 Instrument : PEST16
Sample : WG1975468-2,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #25: Dinoseb #2





Original Peak Response = 904480675 Manual Peak Response = 888638986 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 8:30
Operator : pest16:emr
Sample : WG1975468-3,42,, 5468 (Sig #1); WG1975469-3,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:32 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest16\2024\240925A\16240925a-02.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards						
1) i 4,4'-DBOB	8.454	8.374	1116.7E6	1345.0E6	0.250M4	0.250
Standard Area 1 : #1 = 1066579449				Recovery =	104.70%	
Standard Area 1 : #2 = 1286988911				Recovery =	104.51%	
System Monitoring Compounds						
3) s DCAA (surrog	6.889	7.282	369.3E6	500.4E6	0.441	0.488
Spiked Amount	0.500	Range 30 - 150		Recovery =	88.20%	97.60%
Target Compounds						
2) t Dalapon	1.911f	1.867f	385.2E6	473.7E6	0.419M4	0.454M4
4) t Dicamba	7.072	7.462	1283.5E6	1491.8E6	0.489	0.489
5) t MCPP	7.280	7.581	156.5E6	199.4E6	54.010	42.712
6) t MCPA	7.428	7.811	236.3E6	357.7E6	50.392	55.052
7) t Dichloroprop	7.786	8.131	432.5E6	463.7E6	0.541	0.474
8) t 2,4-D	8.000	8.412	472.4E6	612.9E6	0.531	0.494
9) t 2,4,5-TP (Si	8.726	9.081	1661.4E6	1927.1E6	0.484M4	0.440M4
10) t 2,4,5-T	8.949	9.375	1721.6E6	2049.6E6	0.507M4	0.611
11) t 2,4-DB	9.361	9.742	259.2E6	317.8E6	0.560M4	0.496M4
12) t Dinoseb	10.116	9.964	910.2E6	932.1E6	0.334M4	0.380M4
SemiQuant Compounds - Not Calibrated on this Instrument						

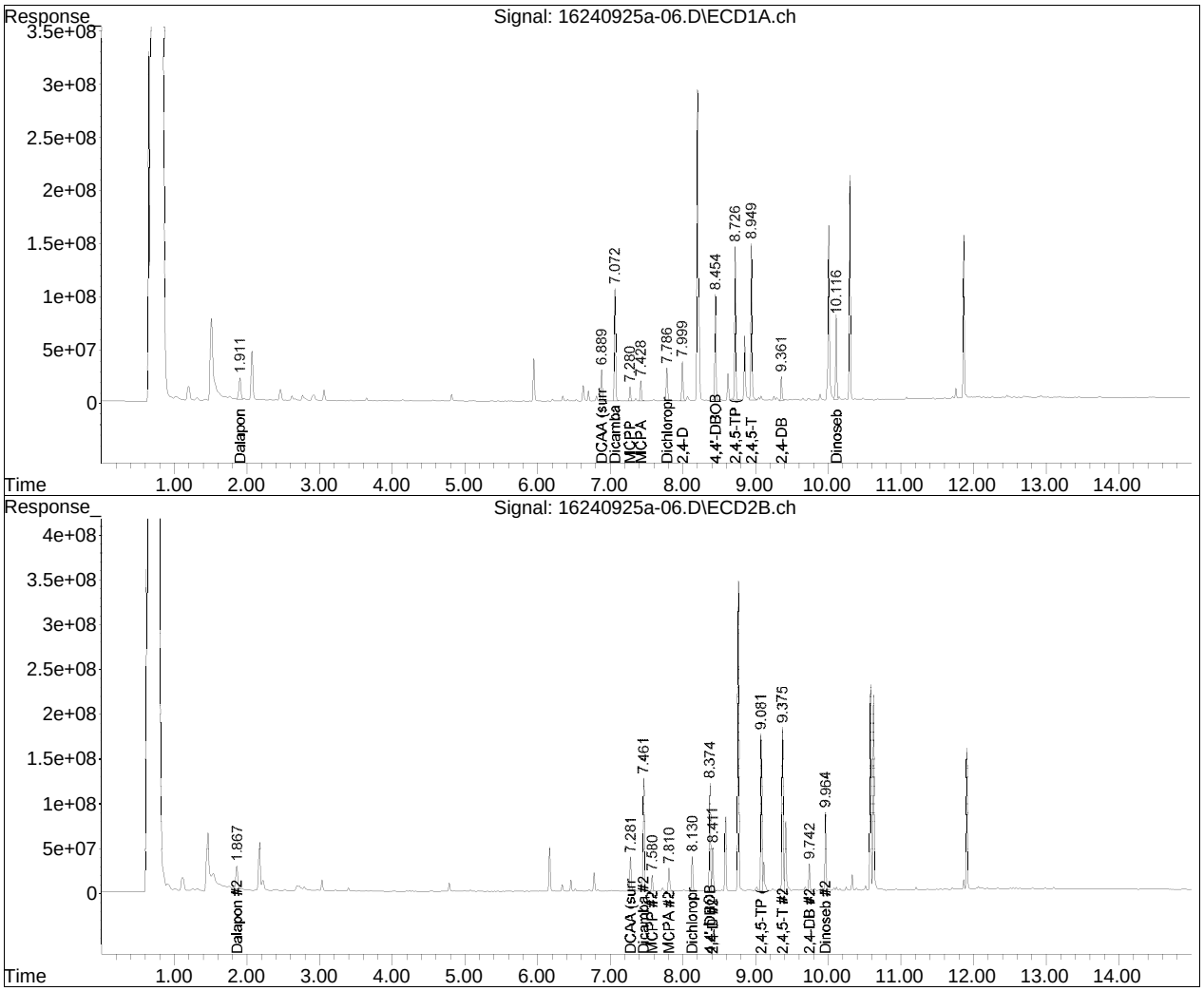
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listed\16240925a-02.D•

Data Path : I:\PCB\Pest16\2024\240925A\
Data File : 16240925a-06.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Sep 2024 8:30
Operator : pest16:emr
Sample : WG1975468-3,42,, 5468 (Sig #1); WG1975469-3,42,, 5468 (Sig #2)
Misc : wg1975970,WG1975468,ical21449
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 25 12:42:32 2024
Quant Method : I:\PCB\Pest16\2024\240925A\Herb16_2024_08_29_ICAL21449.m
Quant Title : herb
QLast Update : Wed Sep 25 07:03:48 2024
Response via : Initial Calibration
Integrator: ChemStation

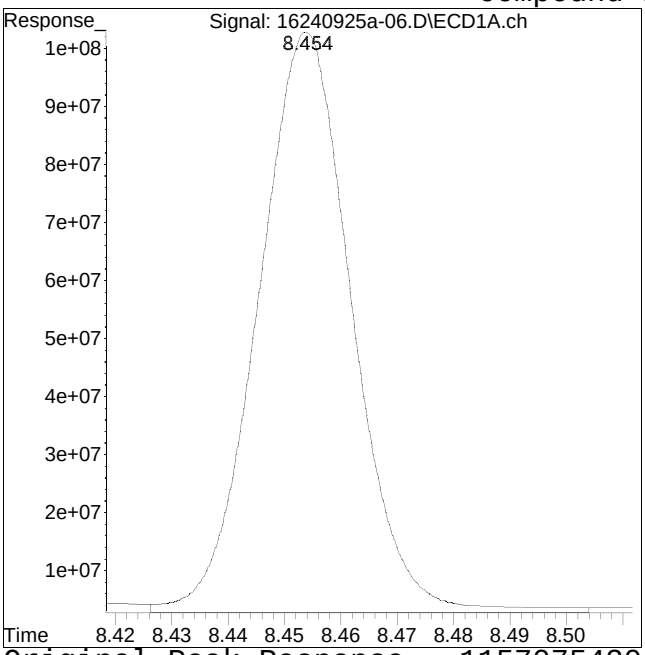
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

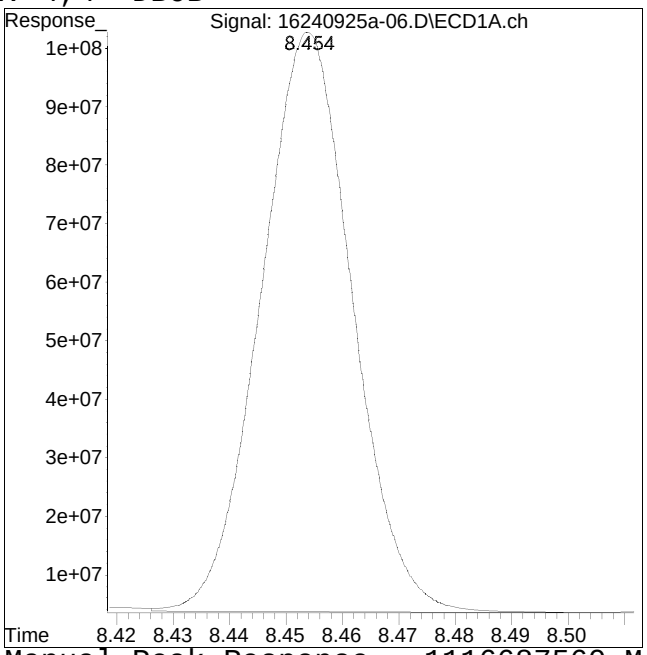


Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #1: 4,4'-DBOB



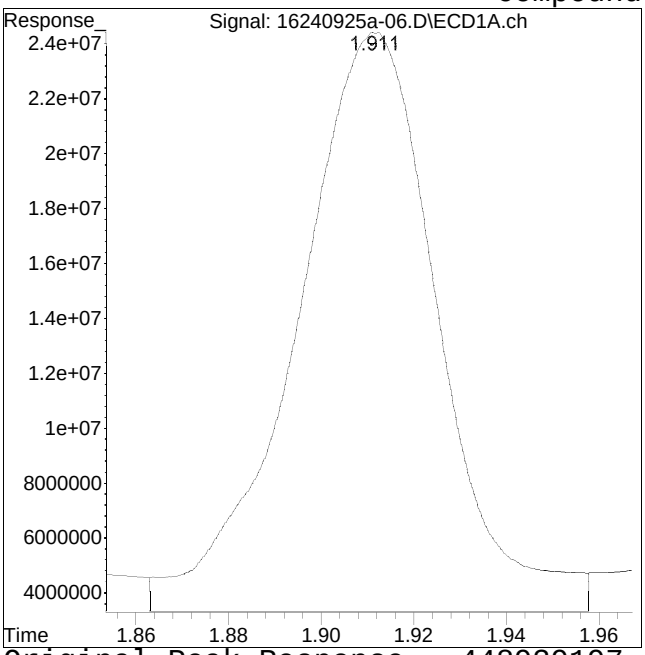


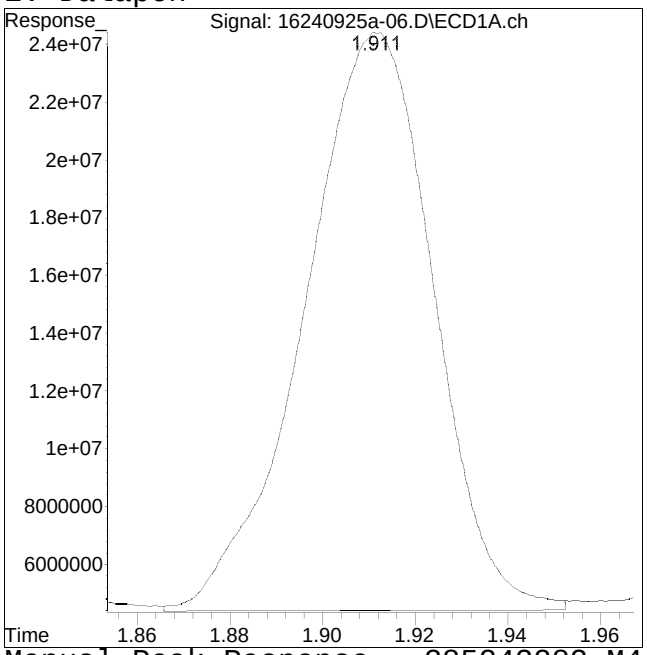
Original Peak Response = 1157075420 Manual Peak Response = 1116687560 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #2: Dalapon



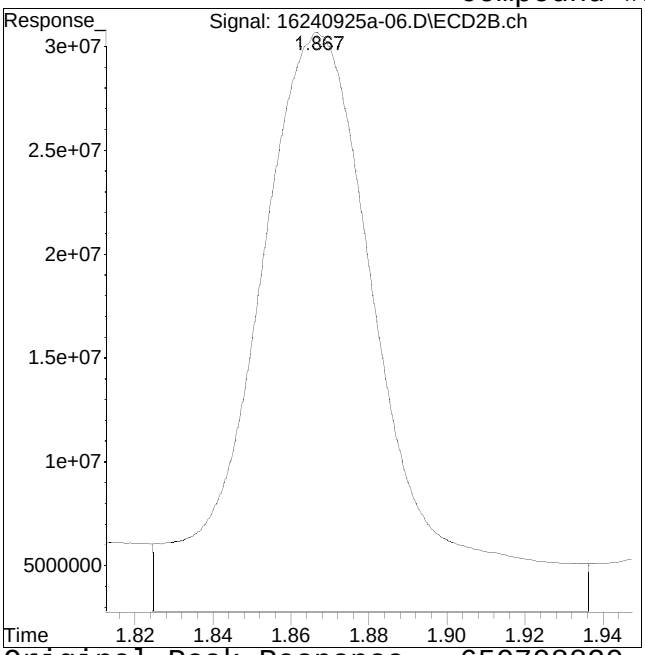


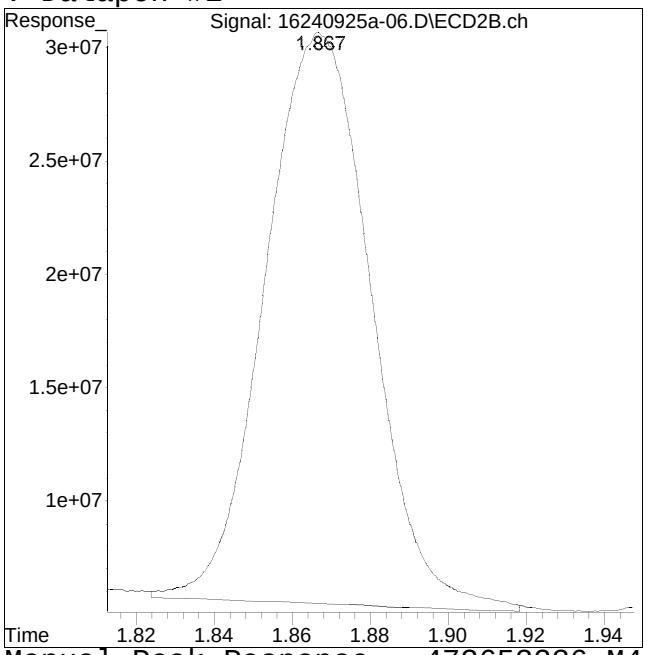
Original Peak Response = 448939197 Manual Peak Response = 385243282 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #15: Dalapon #2



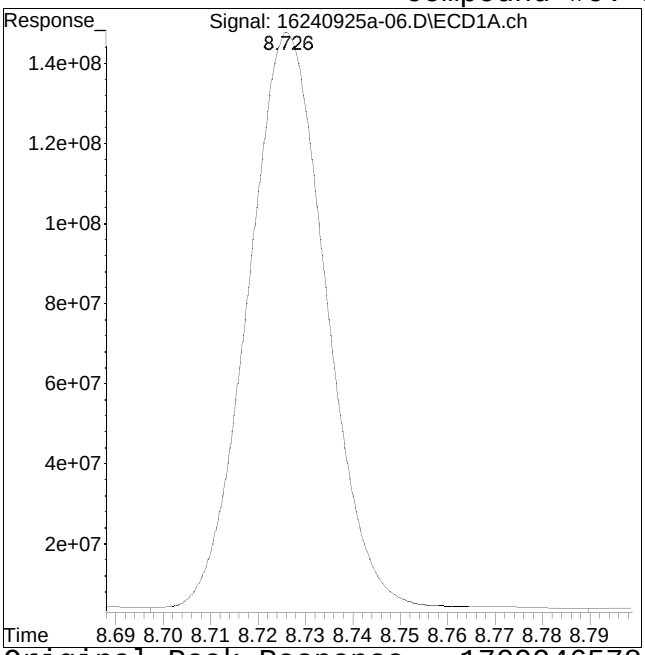


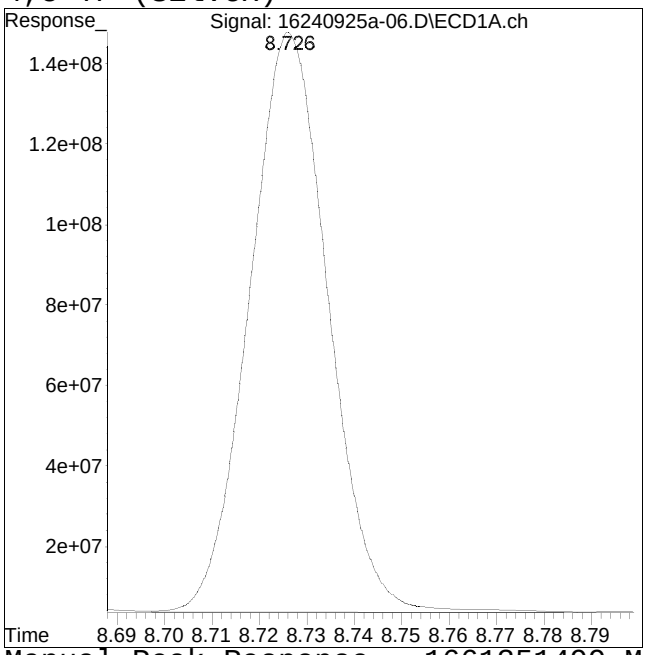
Original Peak Response = 650708820 Manual Peak Response = 473653236 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #9: 2,4,5-TP (Silvex)



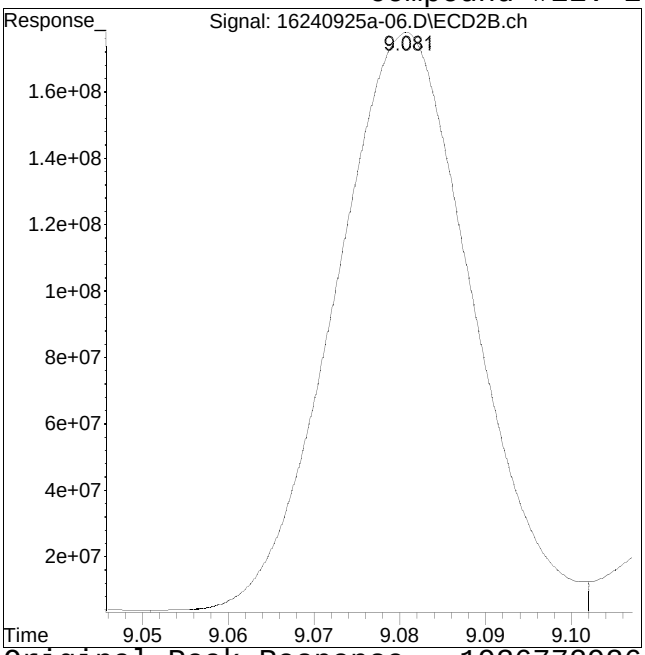


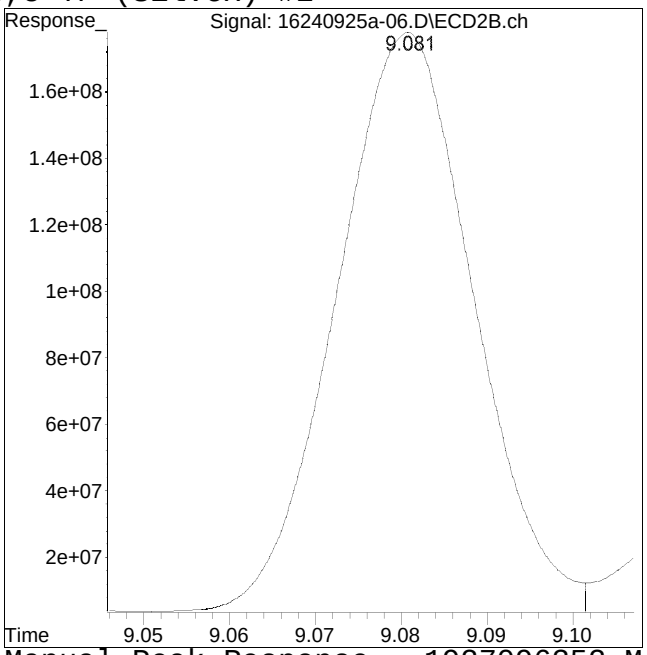
Original Peak Response = 1709946578 Manual Peak Response = 1661351499 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #22: 2,4,5-TP (Silvex) #2



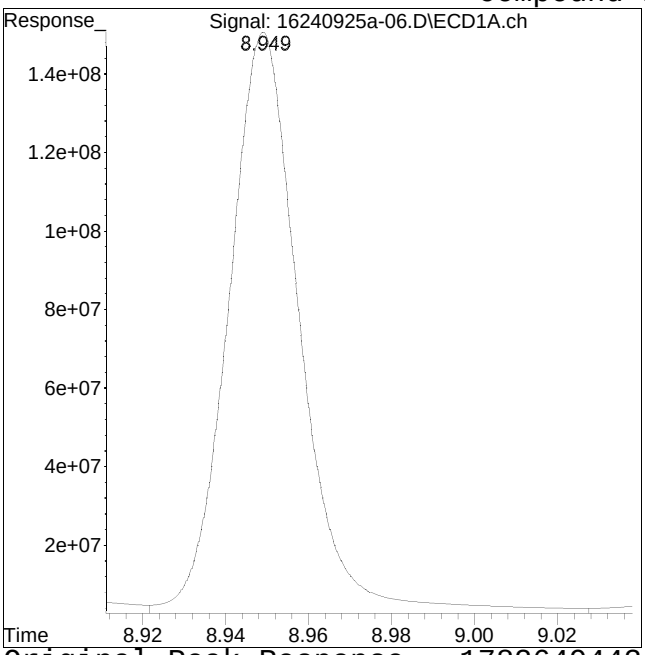


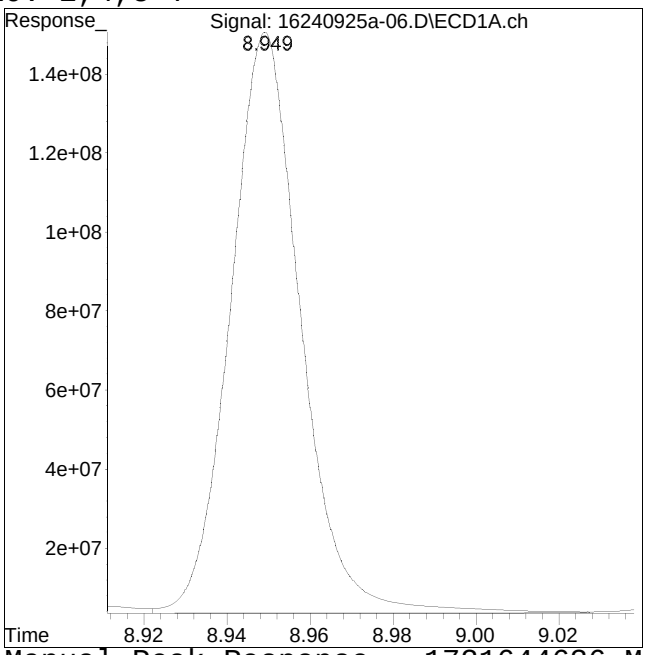
Original Peak Response = 1936772926 Manual Peak Response = 1927096352 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #10: 2,4,5-T



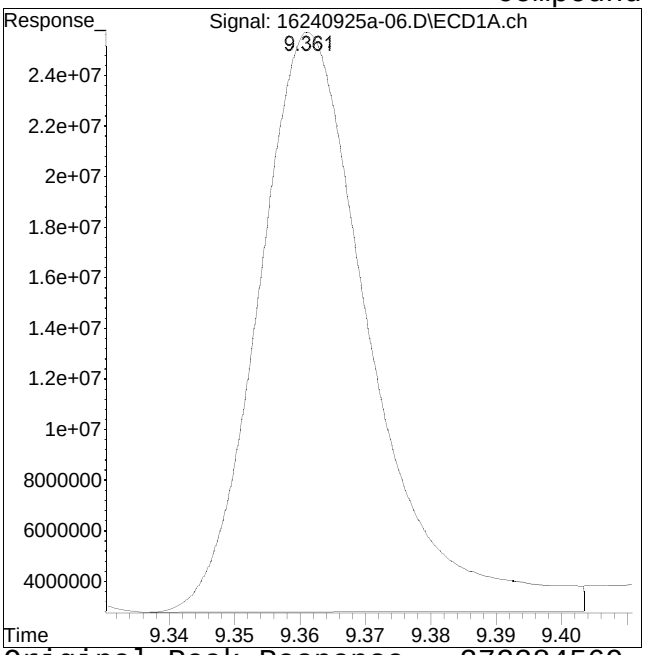


Original Peak Response = 1782649443 Manual Peak Response = 1721644636 M4
M4 = Poor automated baseline construction.

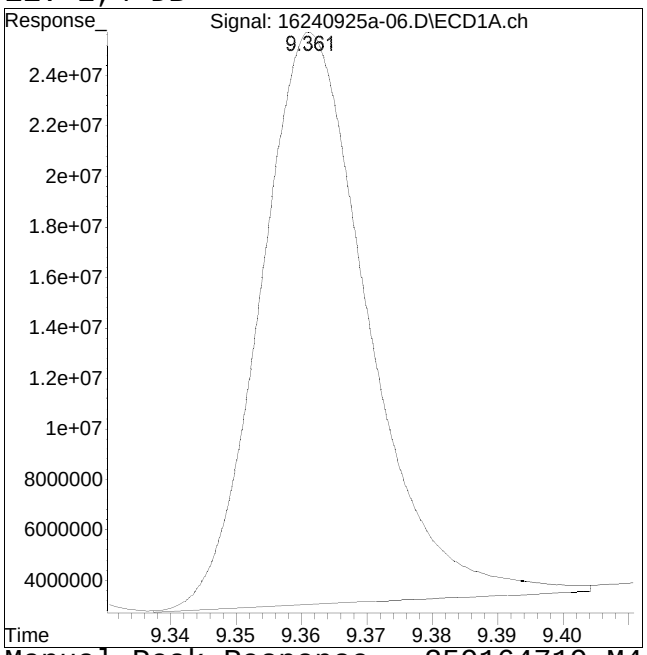
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #11: 2,4-DB



Original Peak Response = 272384569



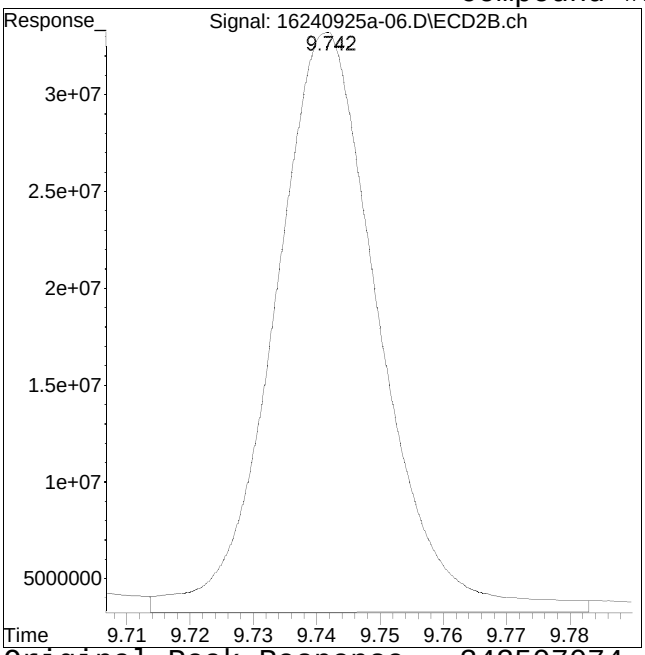
Manual Peak Response = 259164719 M4

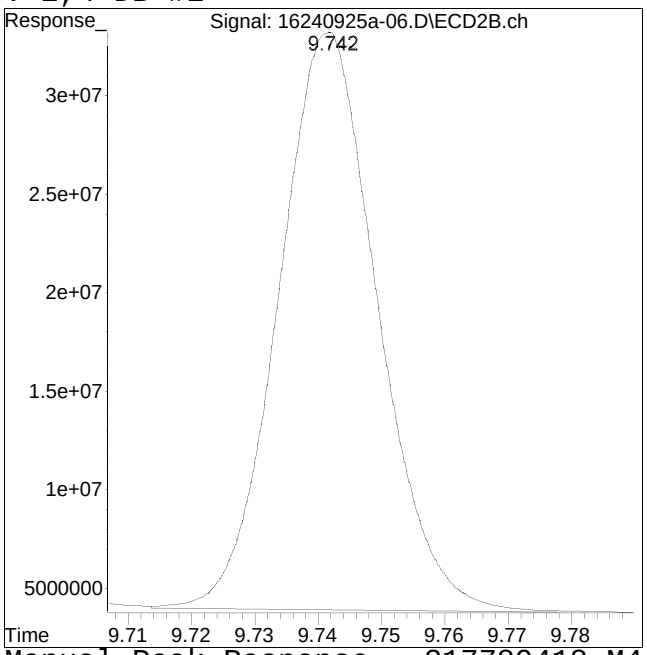
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #24: 2,4-DB #2



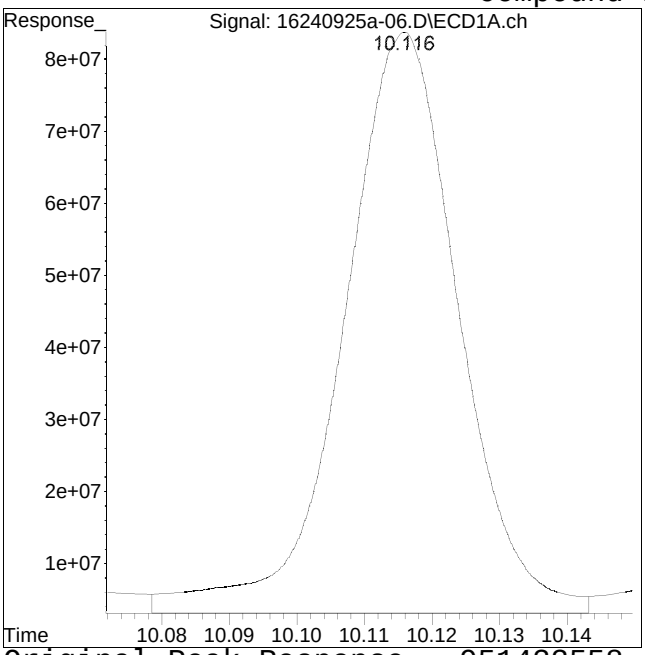


Original Peak Response = 343507074 Manual Peak Response = 317789418 M4
M4 = Poor automated baseline construction.

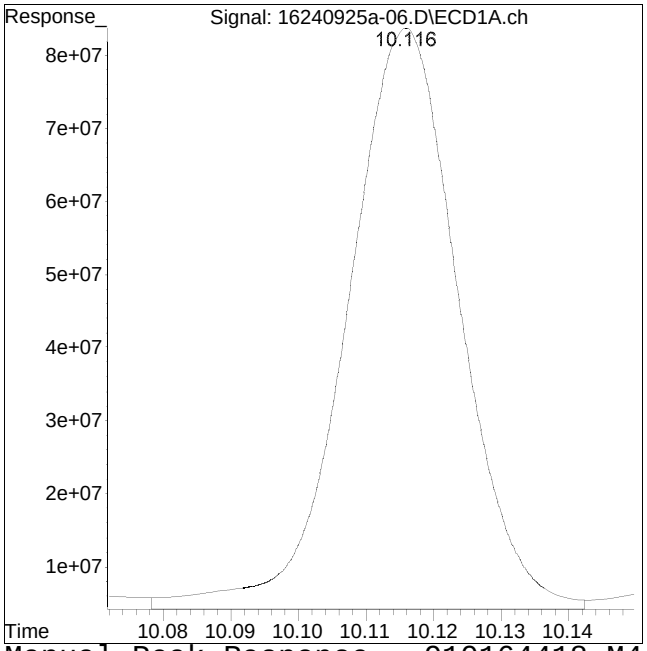
Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #12: Dinoseb



Original Peak Response = 951433558



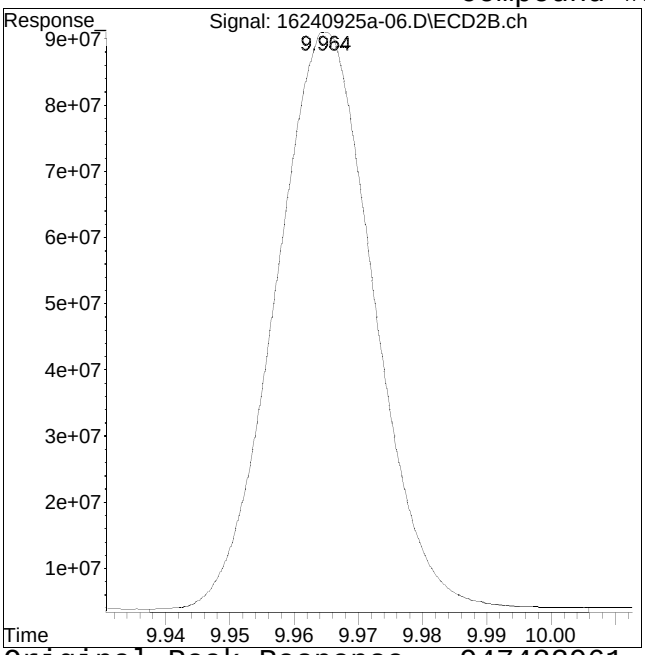
Manual Peak Response = 910164418 M4

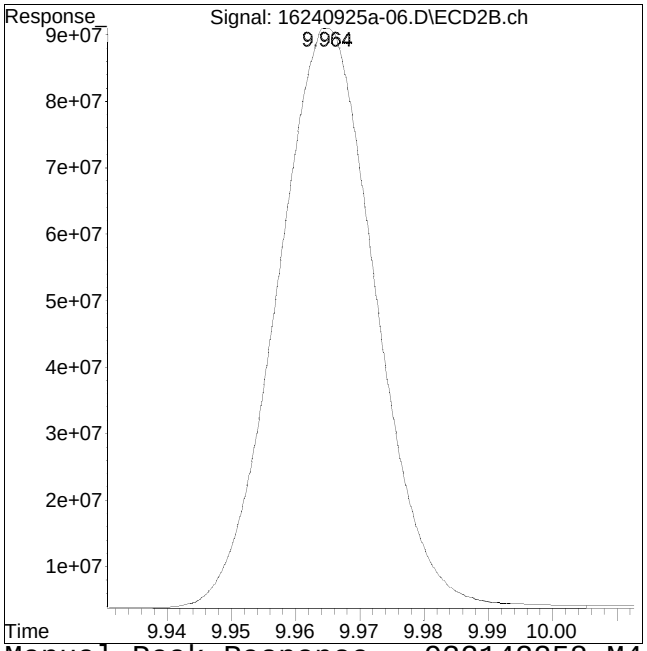
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest16\2024\240925AQMethod : Herb16_2024_08_29_ICAL21
Data File : 16240925a-06.D Operator : pest16:emr
Date Inj'd : 9/25/2024 8:30 Instrument : PEST16
Sample : WG1975468-3,42,, 5468 Quant Date : 9/25/2024 12:42 pm

Compound #25: Dinoseb #2





Original Peak Response = 947422961 Manual Peak Response = 932142258 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-74.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 06:31
Operator : pest22:akm
Sample : WG1975468-4,42,, ms
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:12 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.436	8.434	1376.4E6	1726.5E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery = 104.96%		
	Standard Area 1 : #2 = 1679118582				Recovery = 102.82%		
System Monitoring Compounds							
3) s	DCAA (surrog	6.891	7.362	436.6E6	617.6E6	0.431M4	0.472
	Spiked Amount 0.500	Range 30 - 150		Recovery =	86.20%	94.40%	
Target Compounds							
2) t	Dalapon	2.332	2.326	413.0E6	520.6E6	0.321M4	0.373M4
4) t	Dicamba	7.073	7.542	1472.4E6	1760.9E6	0.471	0.478
5) t	MCPP	7.276	7.655	148.9E6	192.8E6	55.942	53.150
6) t	MCPA	7.421	7.881	233.2E6	353.0E6	48.685M4	53.639M4
7) t	Dichloroprop	7.775	8.199	479.7E6	550.7E6	0.498M4	0.462M3
8) t	2,4-D	7.986	8.475	534.3E6	731.2E6	0.456M4	0.477M4
9) t	2,4,5-TP (Si	8.706	9.134	1906.0E6	2321.9E6	0.448M4	0.433M4
10) t	2,4,5-T	8.926	9.425	2022.8E6	2561.7E6	0.464M4	0.483M4
11) t	2,4-DB	9.334	9.786	312.5E6	419.8E6	0.489M4	0.483M4
12) t	Dinoseb	10.084	10.010	967.2E6	1242.1E6	0.298M4	0.367M4
SemiQuant Compounds - Not Calibrated on this Instrument							

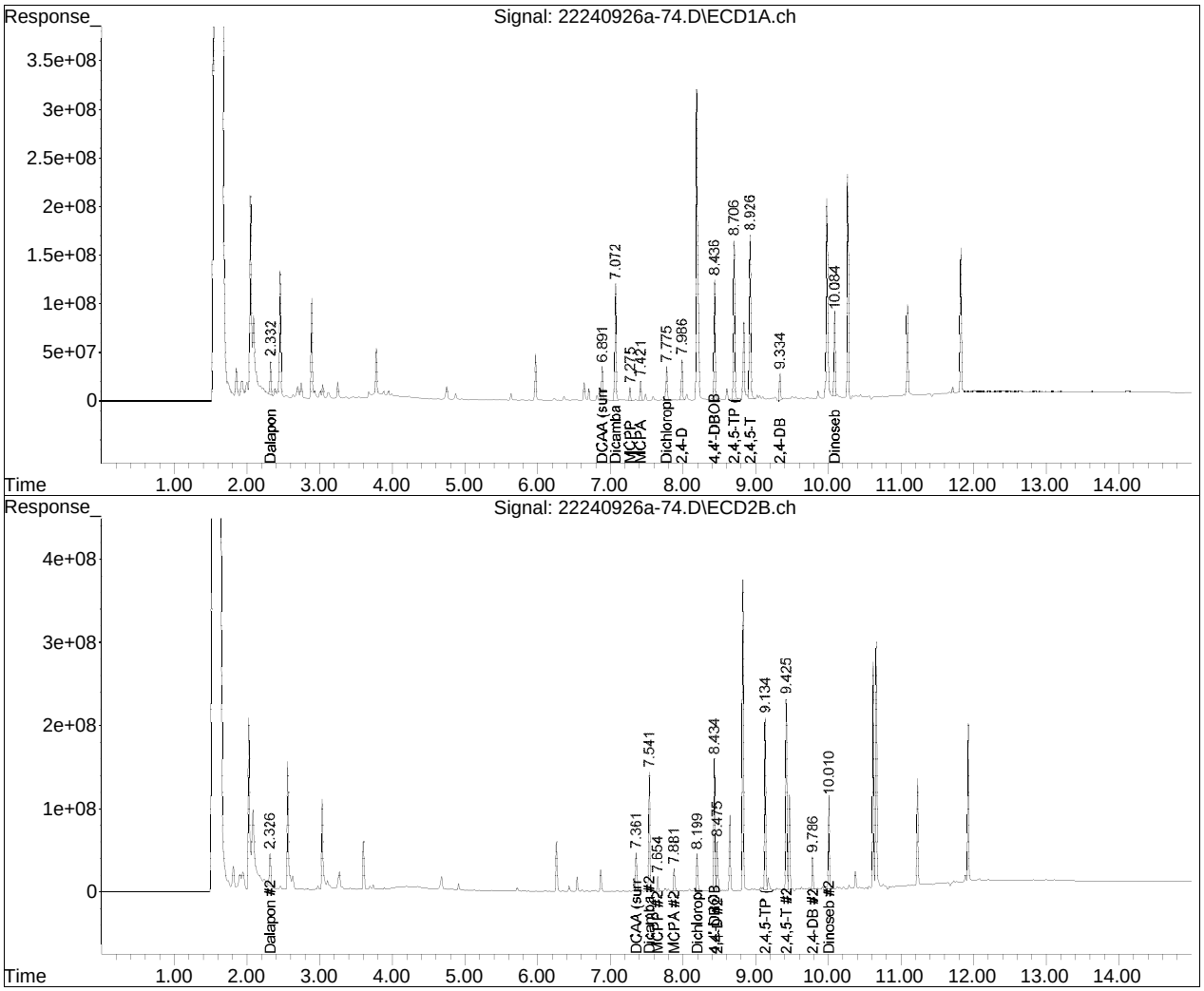
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-74.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 06:31
Operator : pest22:akm
Sample : WG1975468-4,42,, ms
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:12 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

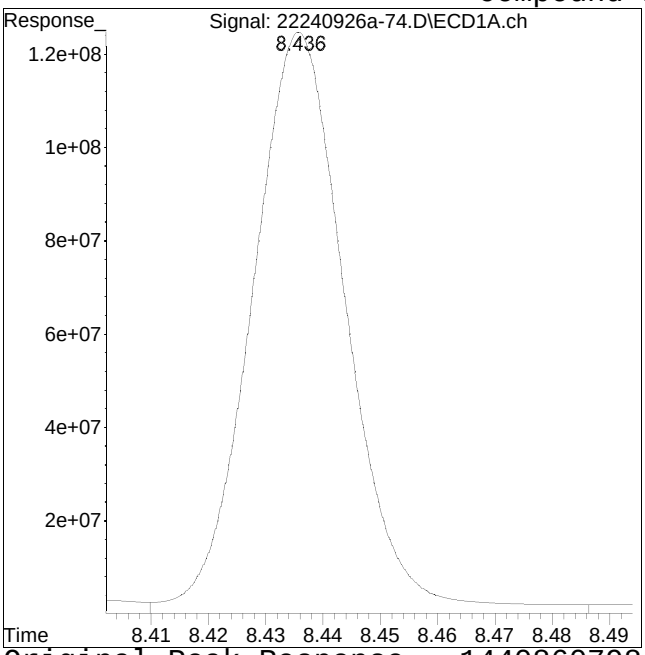
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

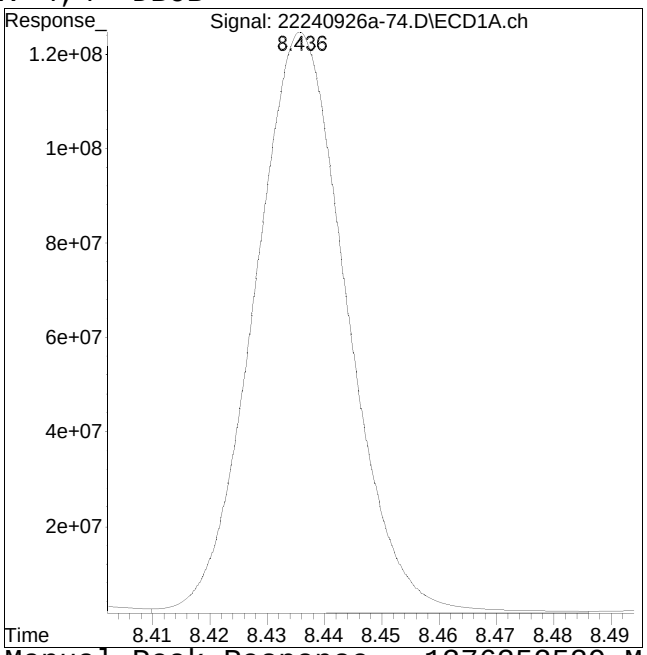


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



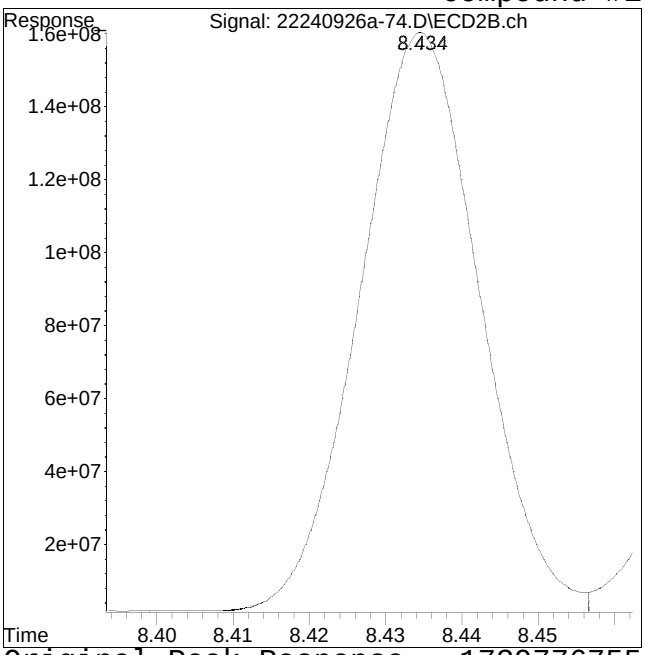


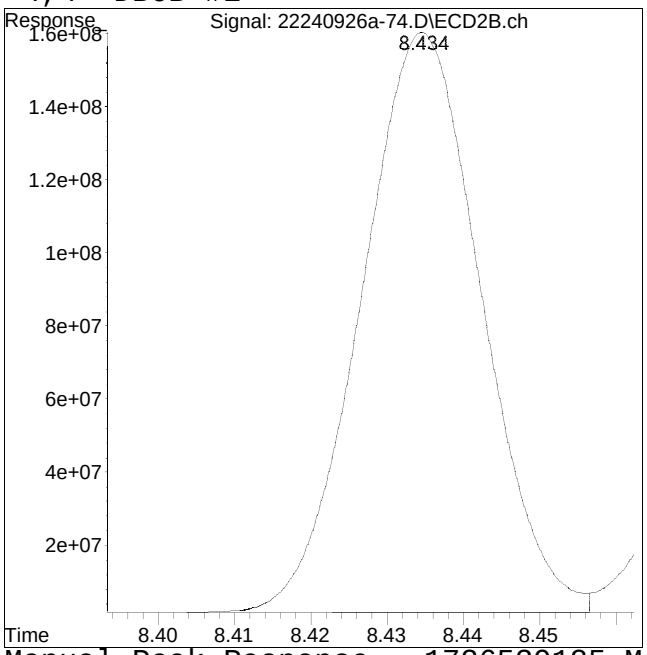
Original Peak Response = 1440860798 Manual Peak Response = 1376352529 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



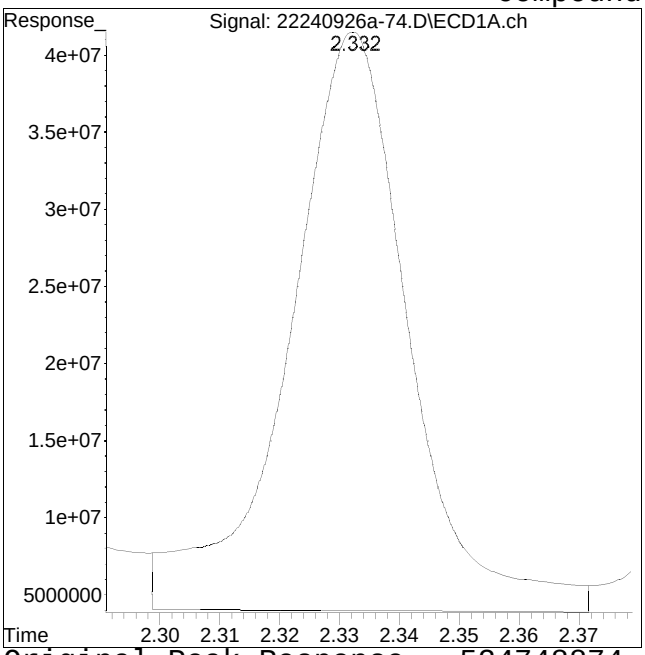


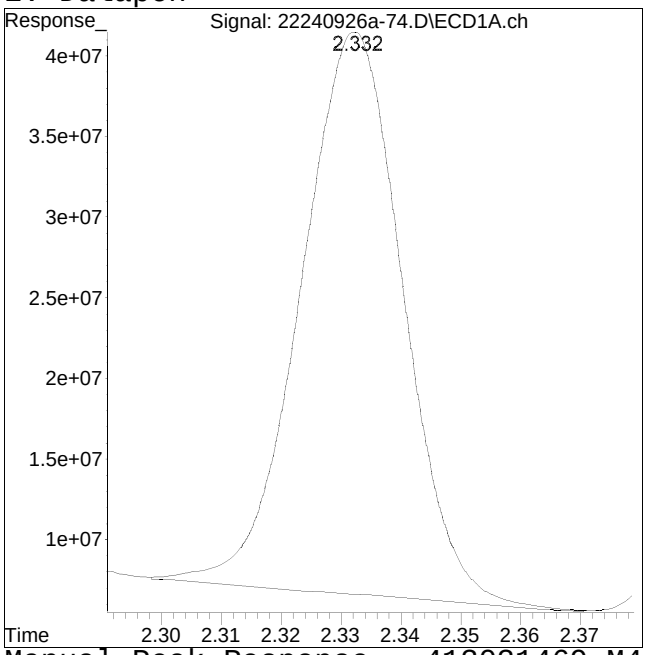
Original Peak Response = 1739776755 Manual Peak Response = 1726539125 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #2: Dalapon



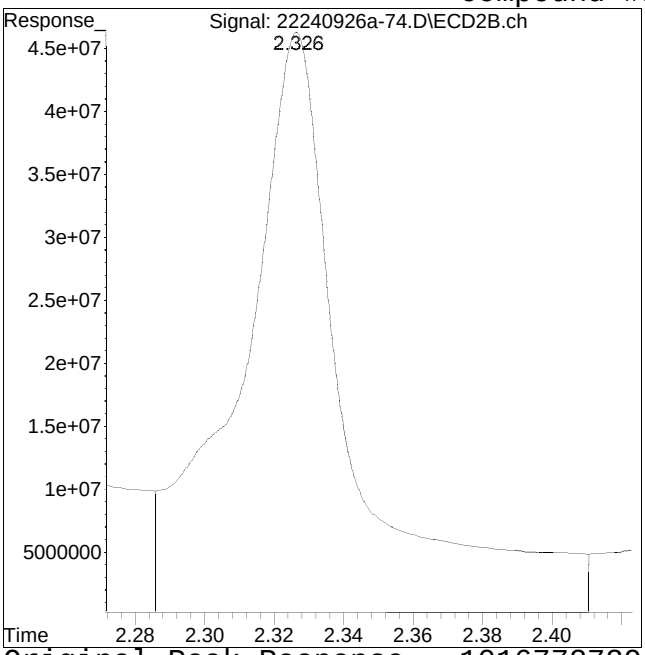


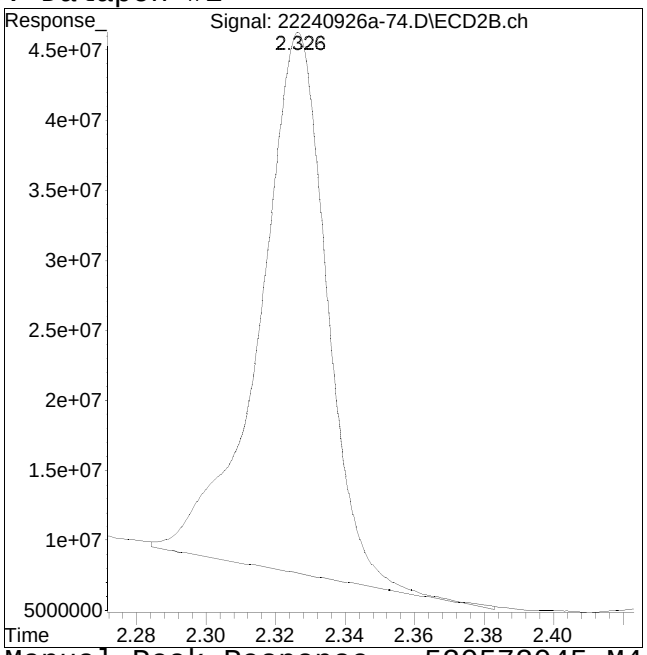
Original Peak Response = 524748874 Manual Peak Response = 413031469 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #15: Dalapon #2



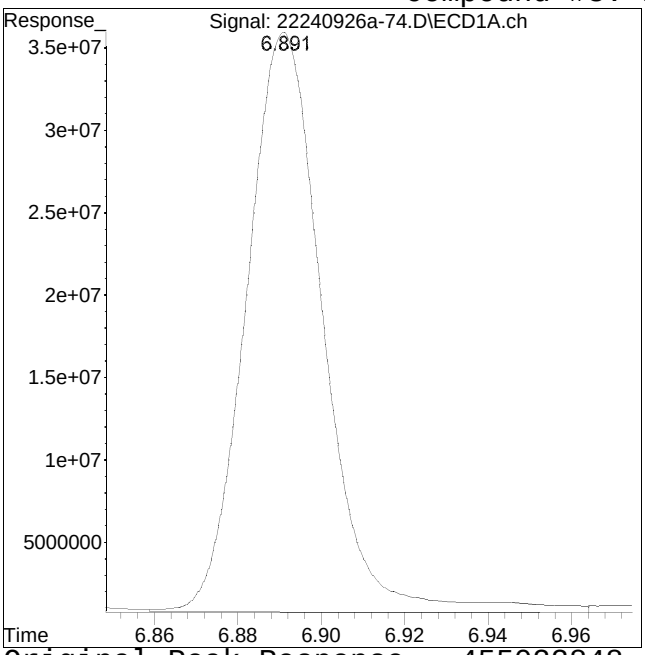


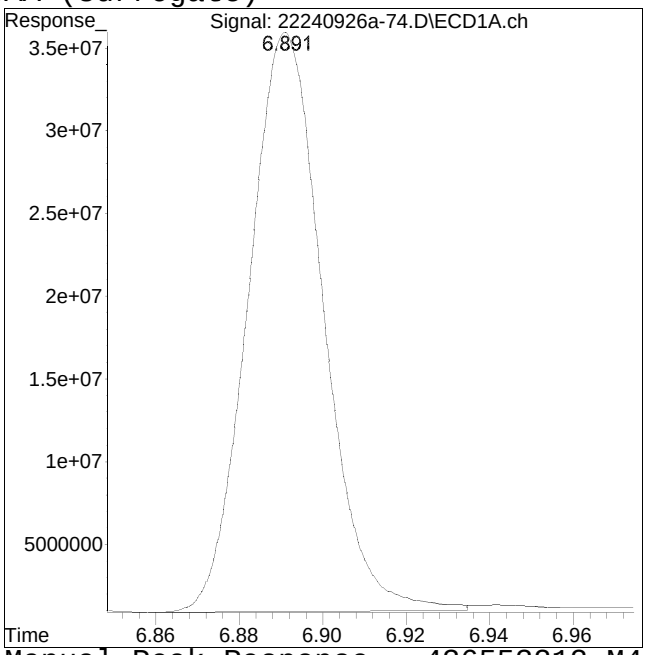
Original Peak Response = 1016772729 Manual Peak Response = 520572045 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



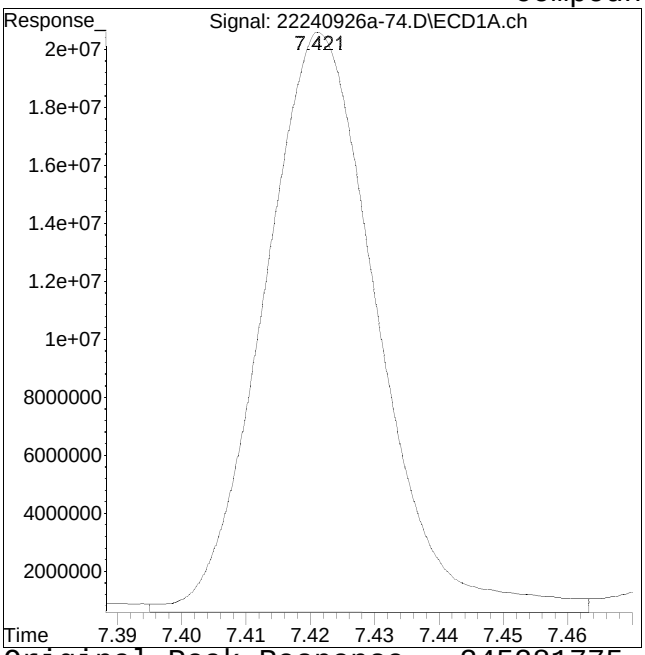


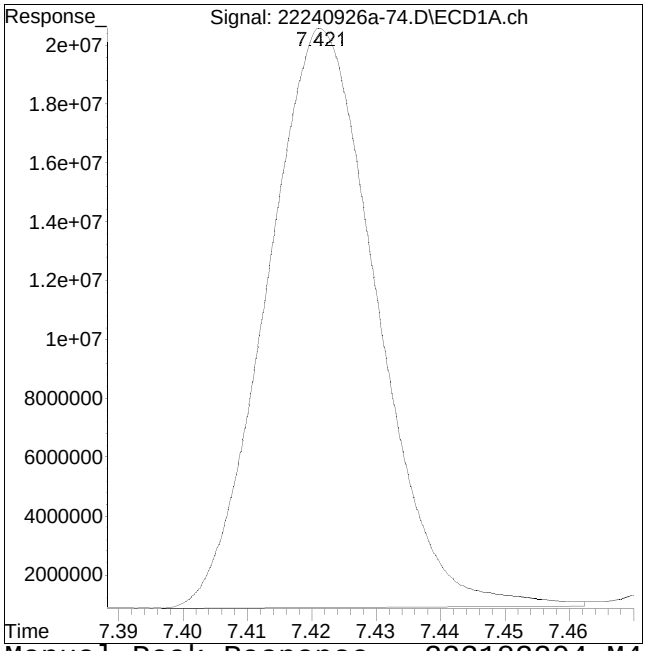
Original Peak Response = 455022848 Manual Peak Response = 436553212 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #6: MCPA



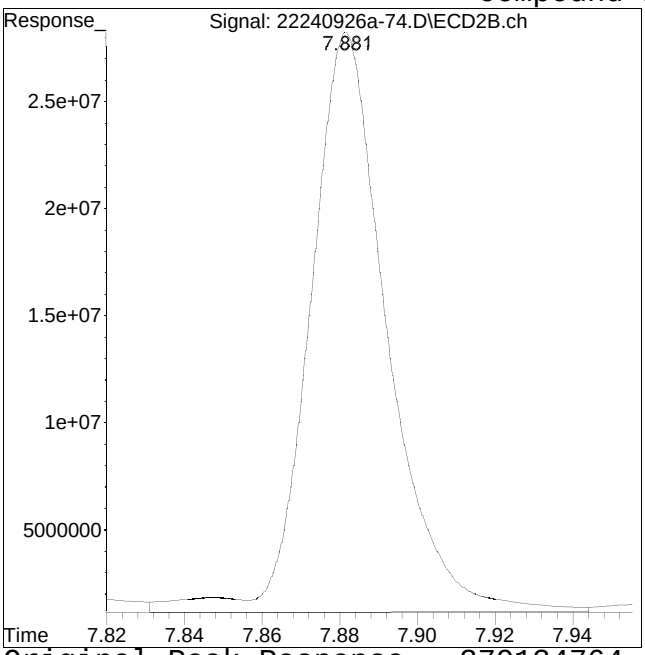


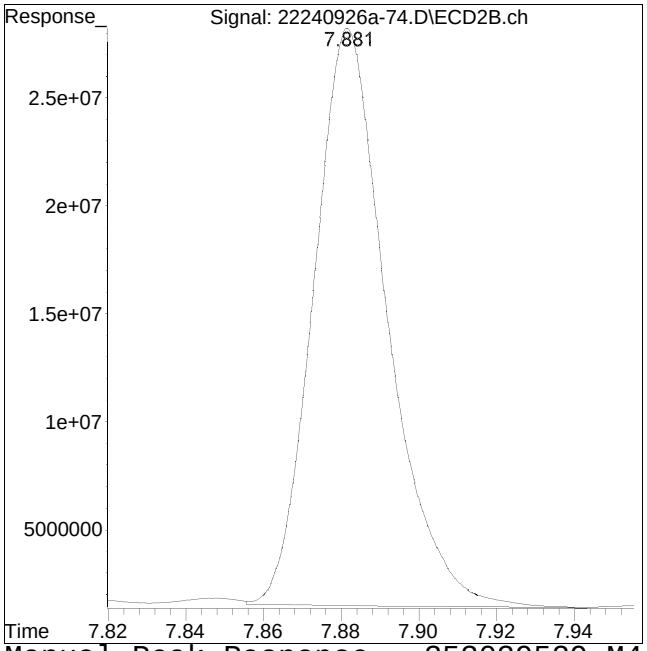
Original Peak Response = 245281775 Manual Peak Response = 233183204 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #19: MCPA #2



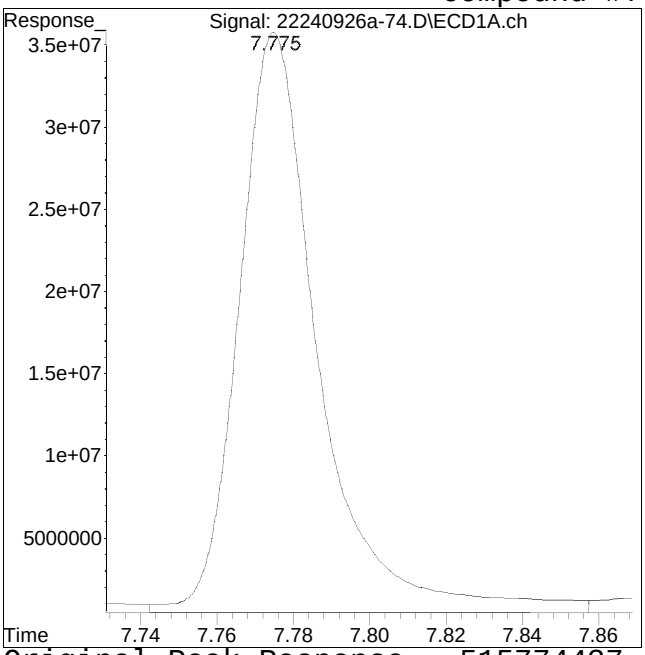


Original Peak Response = 379134764 Manual Peak Response = 353039529 M4
M4 = Poor automated baseline construction.

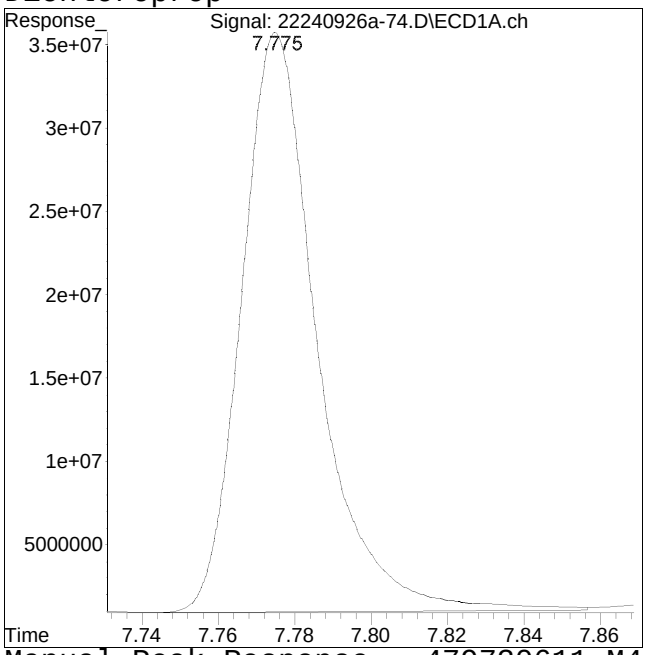
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #7: Dichloroprop



Original Peak Response = 515774437



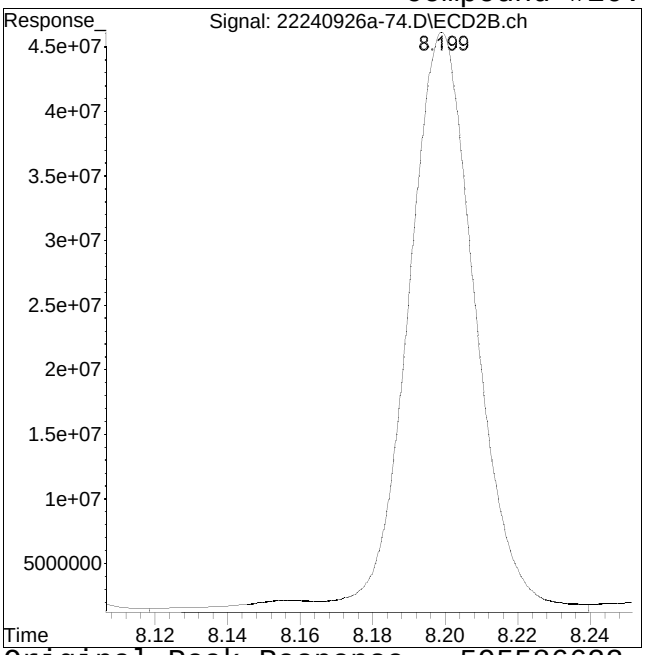
Manual Peak Response = 479730611 M4

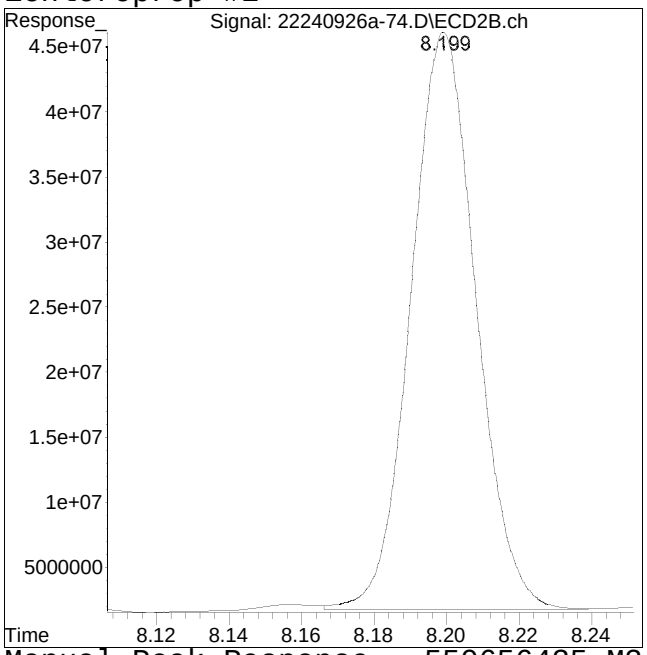
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #20: Dichloroprop #2



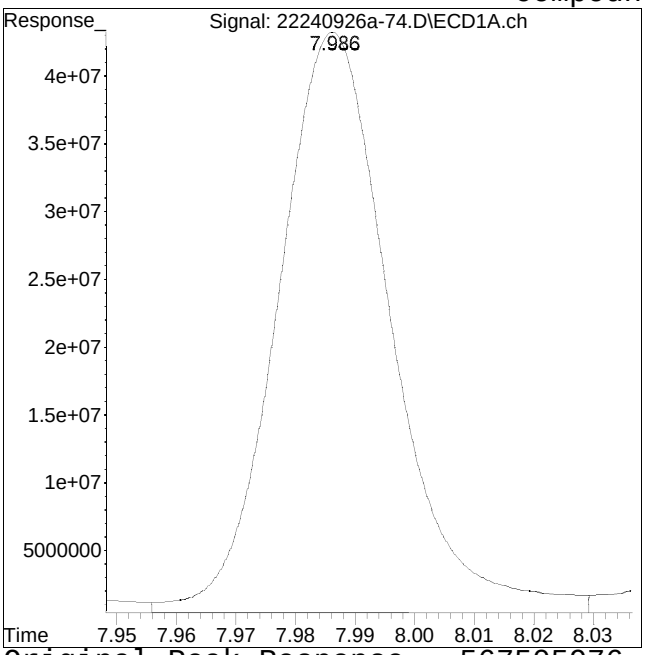


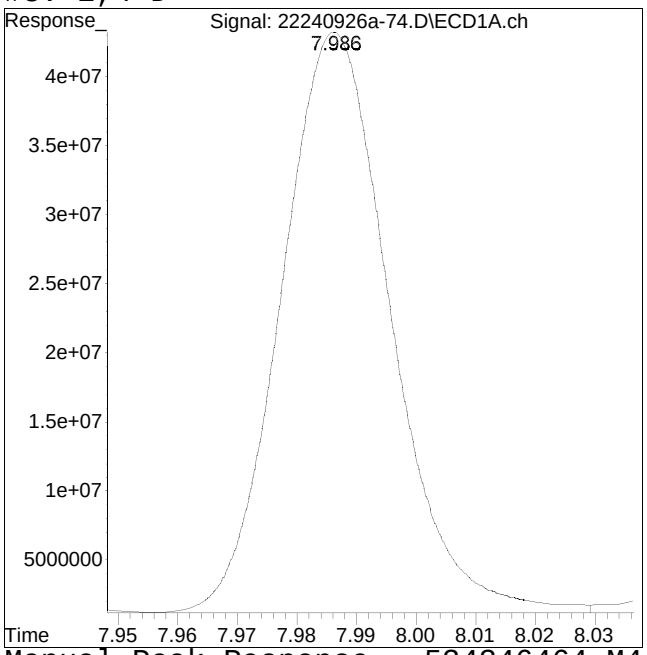
Original Peak Response = 595586622 Manual Peak Response = 550656435 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #8: 2,4-D



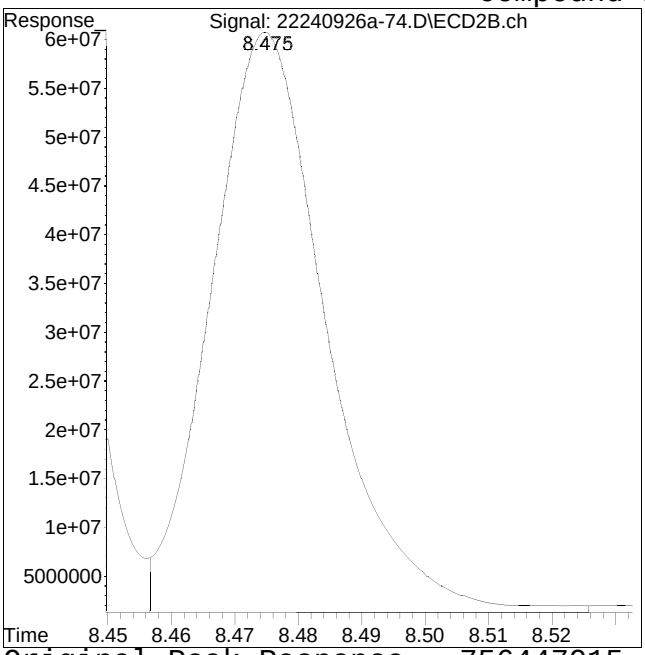


Original Peak Response = 567505976 Manual Peak Response = 534346464 M4
M4 = Poor automated baseline construction.

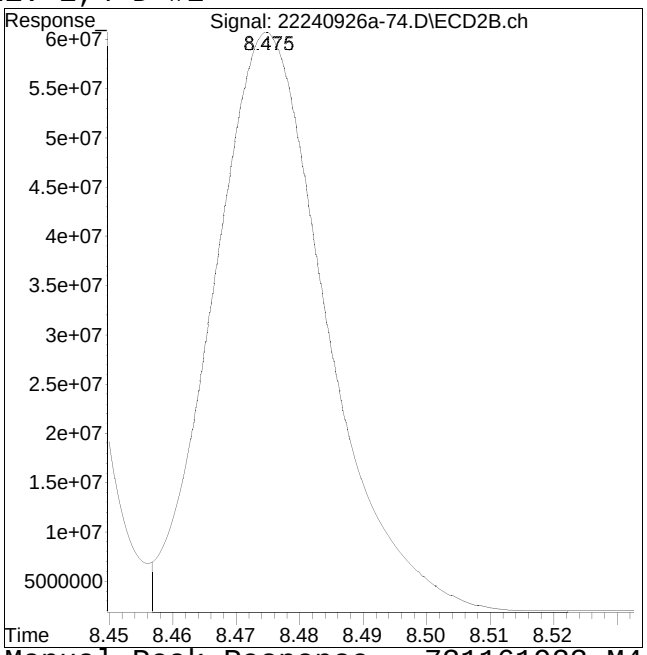
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #21: 2,4-D #2



Original Peak Response = 756447915



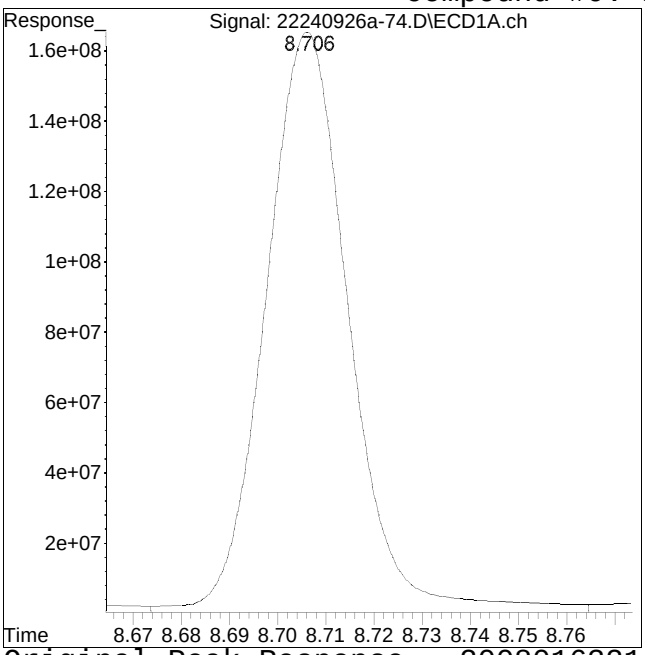
Manual Peak Response = 731161923 M4

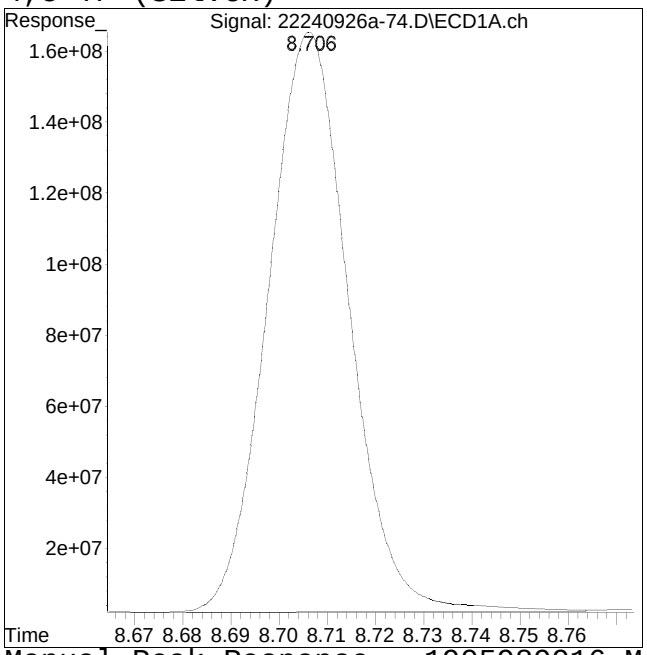
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #9: 2,4,5-TP (Silvex)



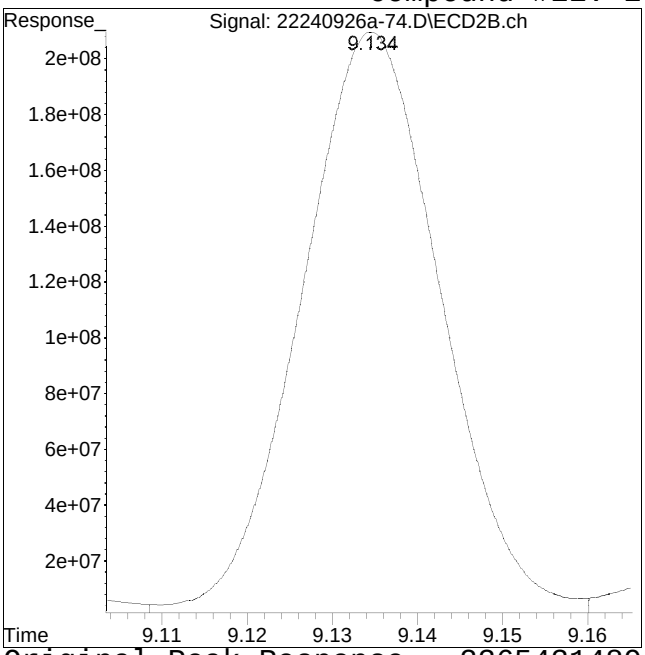


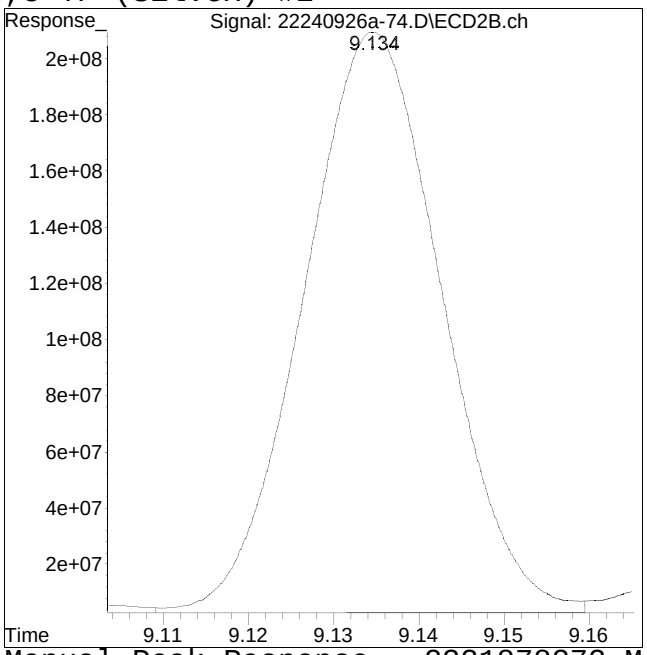
Original Peak Response = 2008016321 Manual Peak Response = 1905989916 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #22: 2,4,5-TP (Silvex) #2



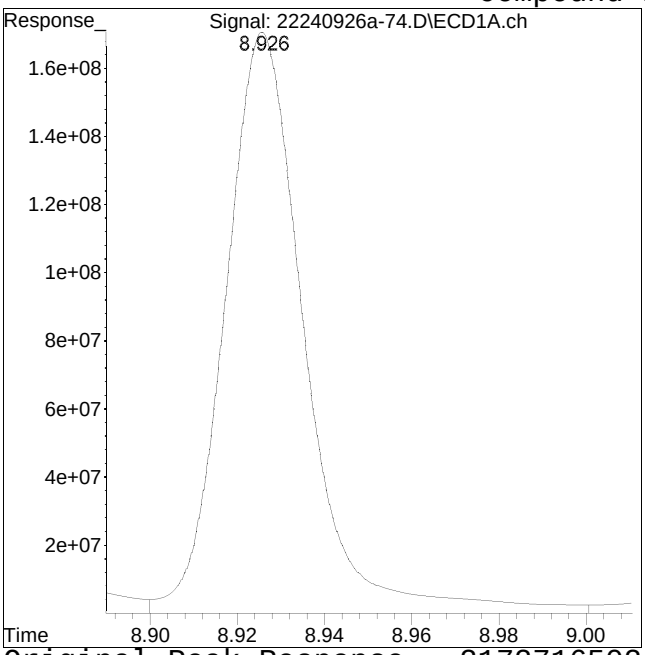


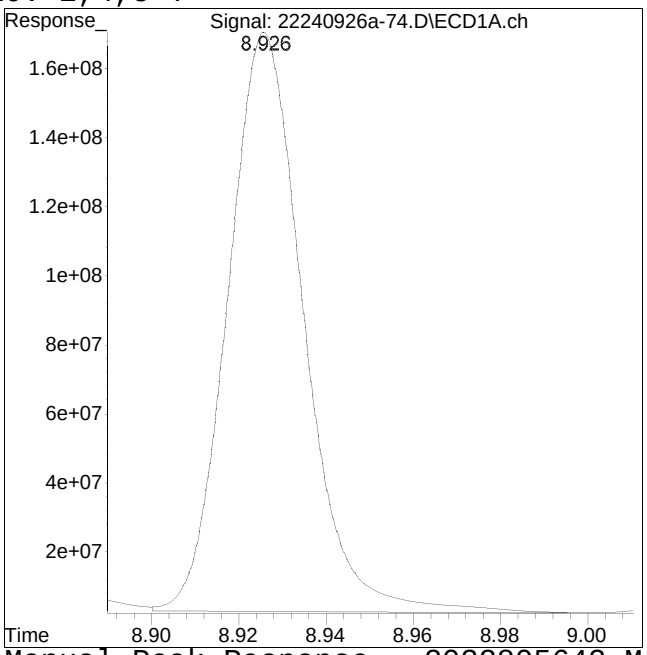
Original Peak Response = 2365431489 Manual Peak Response = 2321878272 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #10: 2,4,5-T



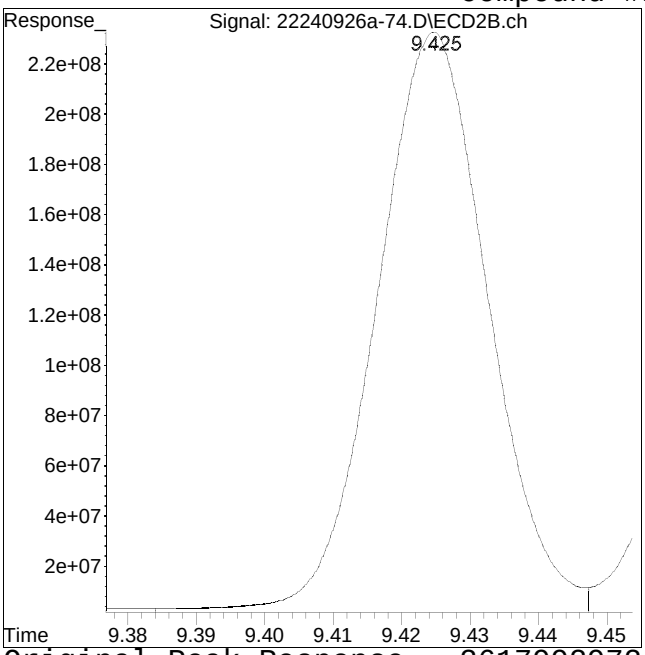


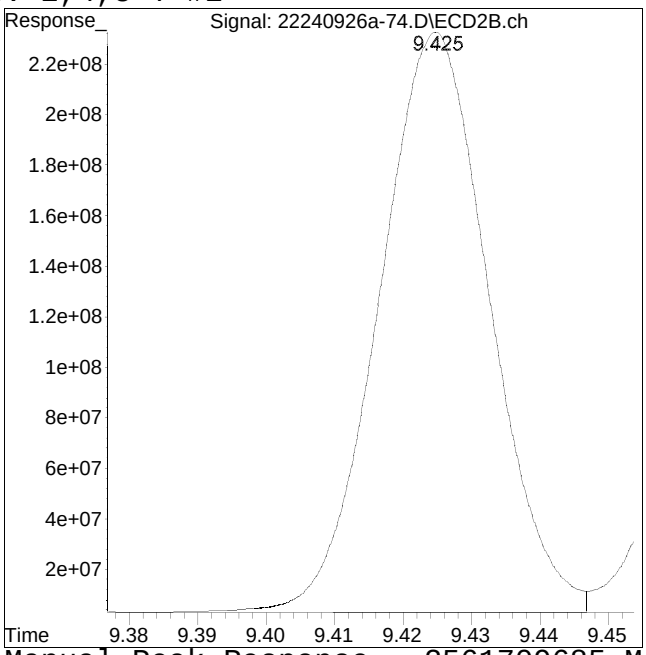
Original Peak Response = 2172716502 Manual Peak Response = 2022805642 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #23: 2,4,5-T #2



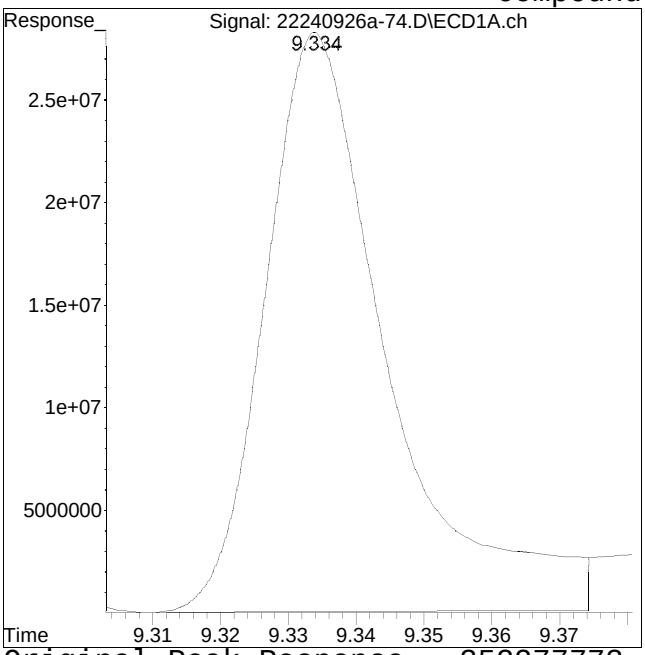


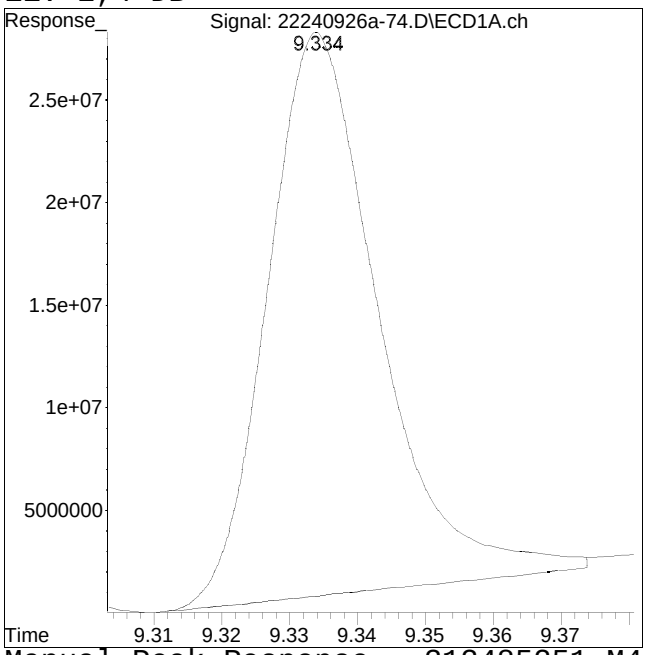
Original Peak Response = 2617992972 Manual Peak Response = 2561709685 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #11: 2,4-DB



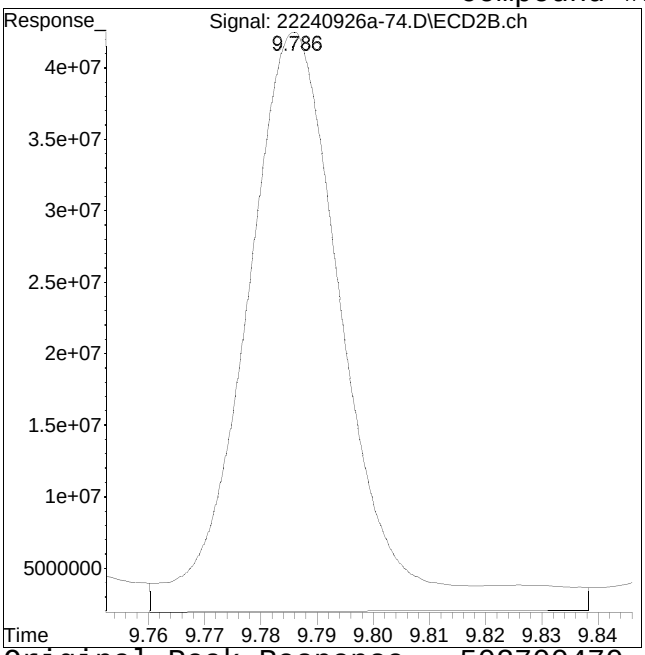


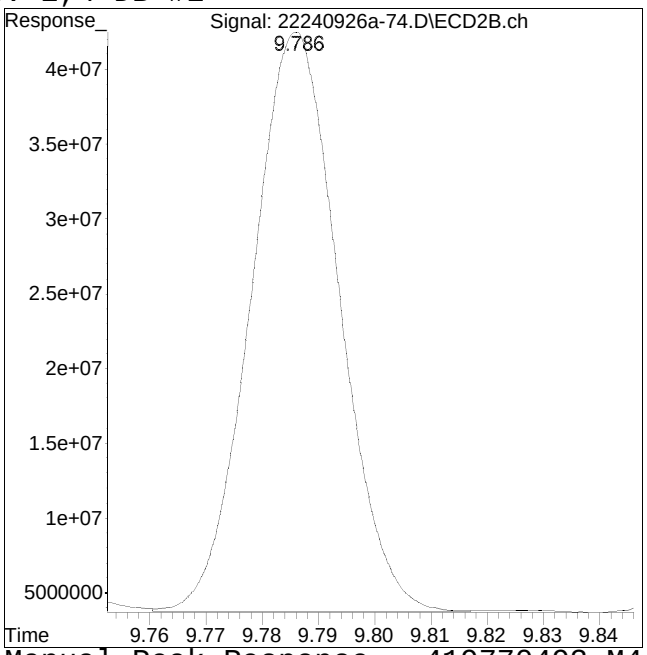
Original Peak Response = 352277773 Manual Peak Response = 312485251 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #24: 2,4-DB #2



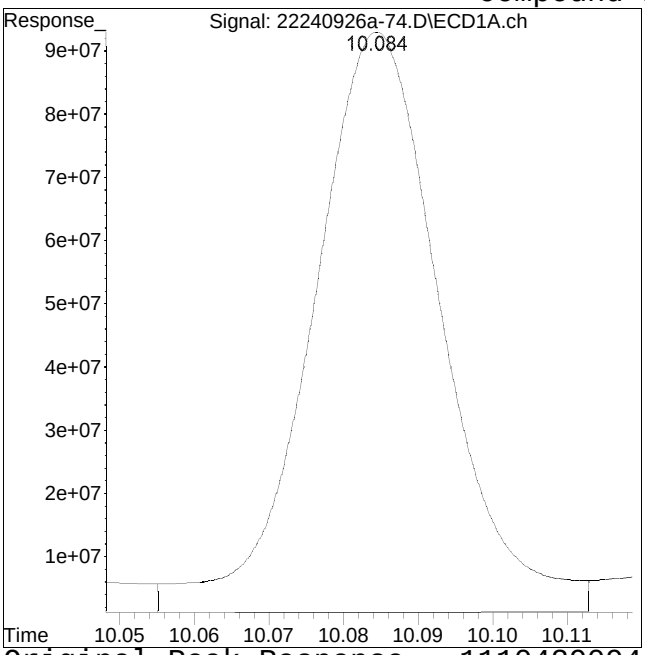


Original Peak Response = 502700470 Manual Peak Response = 419770493 M4
M4 = Poor automated baseline construction.

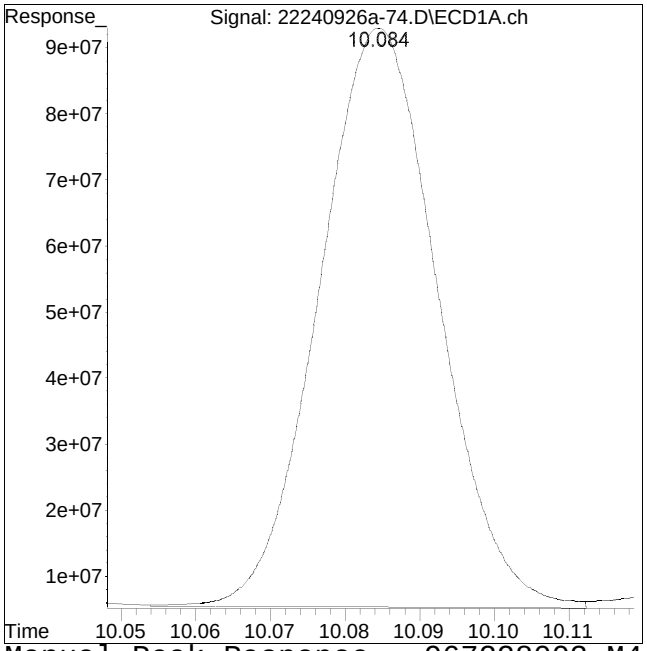
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #12: Dinoseb



Original Peak Response = 1110429094



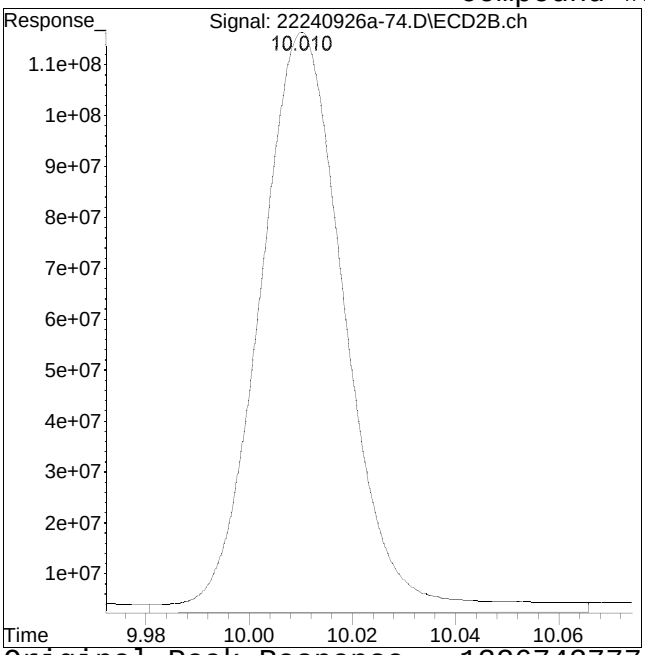
Manual Peak Response = 967228003 M4

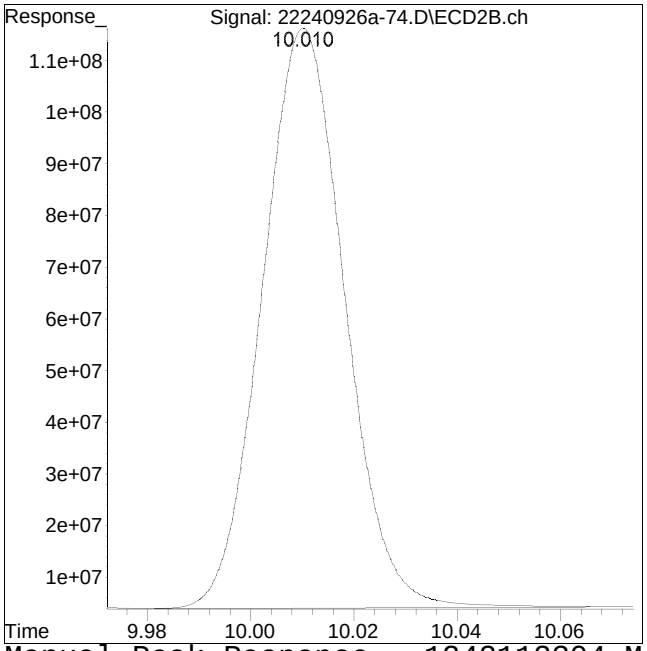
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-74.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:31 Instrument : Pest22
Sample : WG1975468-4,42,, ms Quant Date : 9/27/2024 8:51 am

Compound #25: Dinoseb #2





Original Peak Response = 1326743777 Manual Peak Response = 1242112304 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-75.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 06:50
Operator : pest22:akm
Sample : WG1975468-5,42,, msd
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 75 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:13 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest22\2024\240926a\22240926a-64.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	mg/l	mg/l
Internal Standards							
1) i	4,4'-DBOB	8.435	8.435	1303.4E6	1654.6E6	0.250M4	0.250M4
	Standard Area 1 : #1 = 1311290405				Recovery =	99.40%	
	Standard Area 1 : #2 = 1679118582				Recovery =	98.54%	
System Monitoring Compounds							
3) s	DCAA (surrog	6.891	7.361	446.6E6	632.5E6	0.465M4	0.504M4
	Spiked Amount	0.500	Range 30 - 150		Recovery =	93.00%	100.80%
Target Compounds							
2) t	Dalapon	2.331	2.325	412.0E6	528.8E6	0.338M4	0.396M4
4) t	Dicamba	7.072	7.542	1496.0E6	1802.7E6	0.506M4	0.511M4
5) t	MCPP	7.275	7.655	148.8E6	189.5E6	59.027M4	54.513M4
6) t	MCPA	7.422	7.882	235.8E6	335.7E6	51.981M4	53.215M4
7) t	Dichloroprop	7.775	8.199	464.2E6	558.7E6	0.509M4	0.489M4
8) t	2,4-D	7.986	8.475	541.4E6	748.8E6	0.488M4	0.510M4
9) t	2,4,5-TP (Si	8.706	9.135	1940.1E6	2354.4E6	0.482M4	0.459M4
10) t	2,4,5-T	8.926	9.425	2070.0E6	2584.0E6	0.501M4	0.509M4
11) t	2,4-DB	9.334	9.786	316.7E6	413.2E6	0.524M4	0.496M4
12) t	Dinoseb	10.084	10.011	988.7E6	1267.5E6	0.321M4	0.391M4

SemiQuant Compounds - Not Calibrated on this Instrument

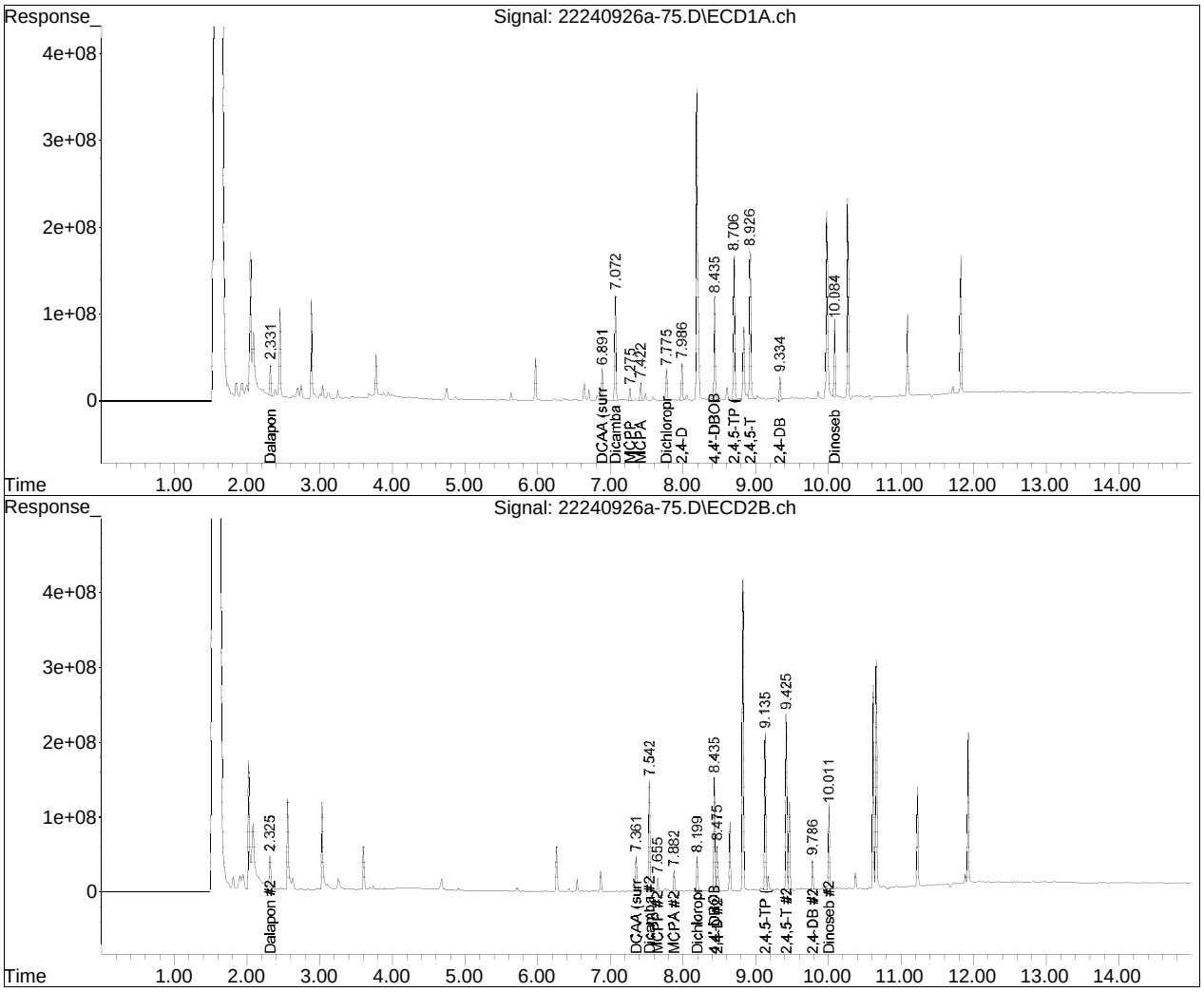
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda\22240926a-64.D•

Data Path : I:\PEST\Pest22\2024\240926a\
Data File : 22240926a-75.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2024 06:50
Operator : pest22:akm
Sample : WG1975468-5,42,, msd
Misc : wg1976540,WG1975468,ical21511
ALS Vial : 75 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 08:51:13 2024
Quant Method : I:\PEST\Pest22\2024\240926a\Herb22_2024_09_20_mgL_ICAL21511.m
Quant Title : herb
QLast Update : Thu Sep 26 08:04:06 2024
Response via : Initial Calibration
Integrator: ChemStation

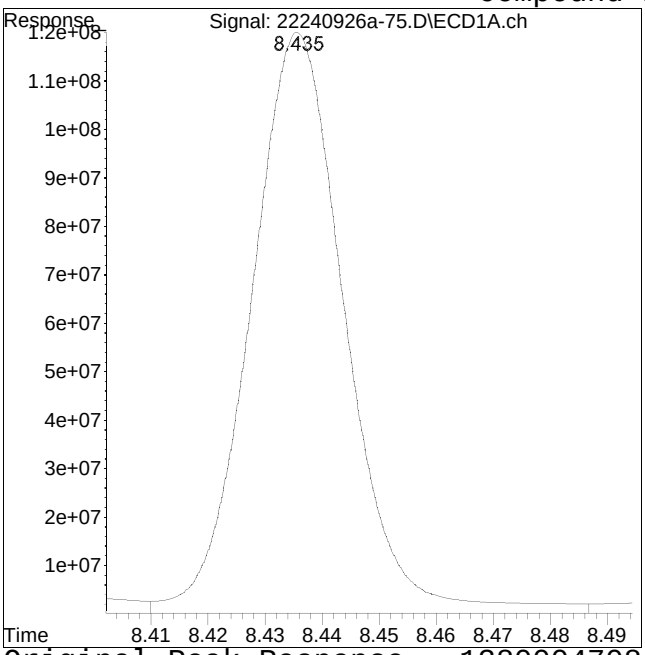
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

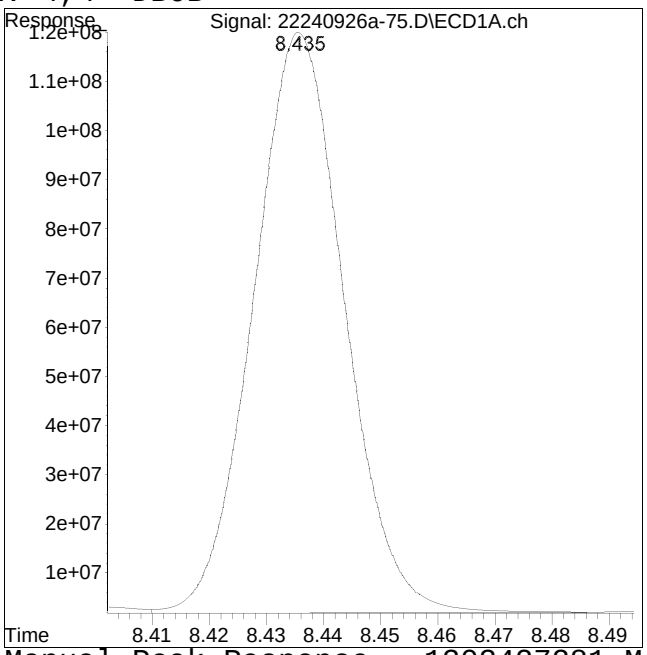


Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #1: 4,4'-DBOB



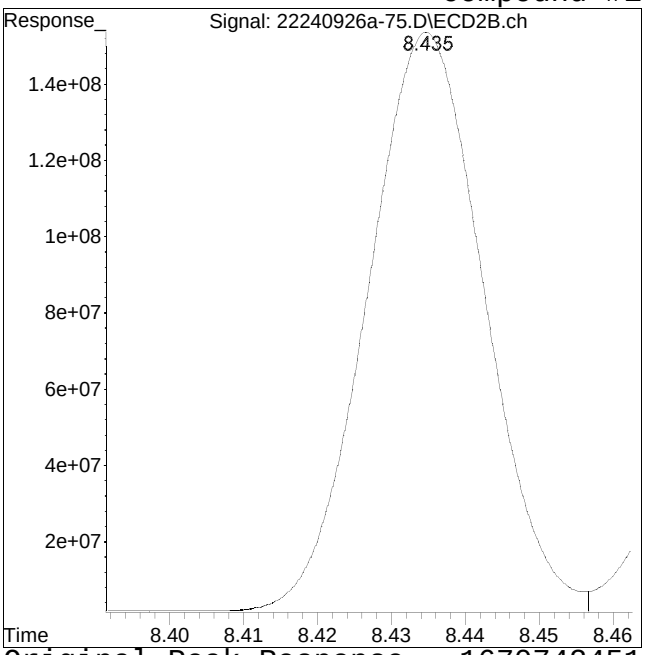


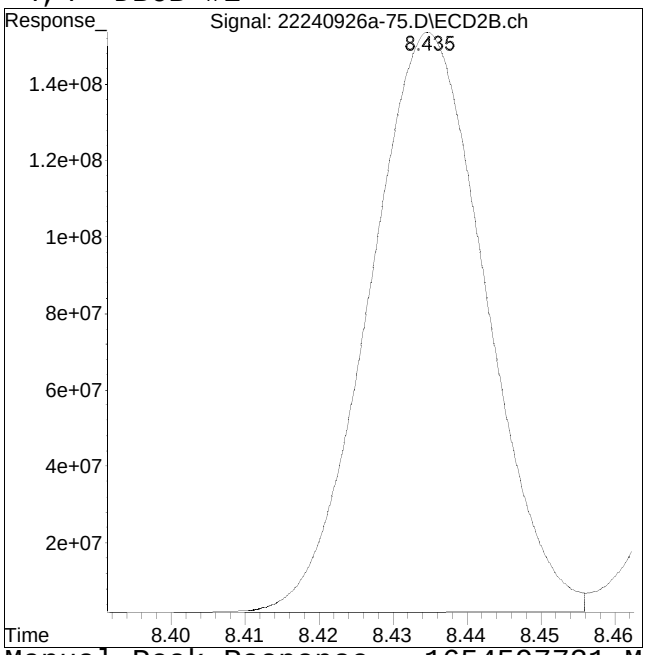
Original Peak Response = 1380004708 Manual Peak Response = 1303427281 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #14: 4,4'-DBOB #2



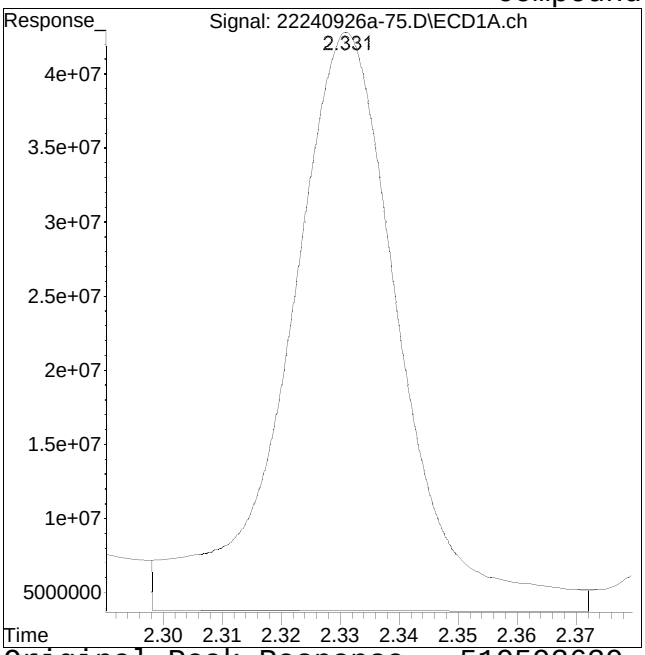


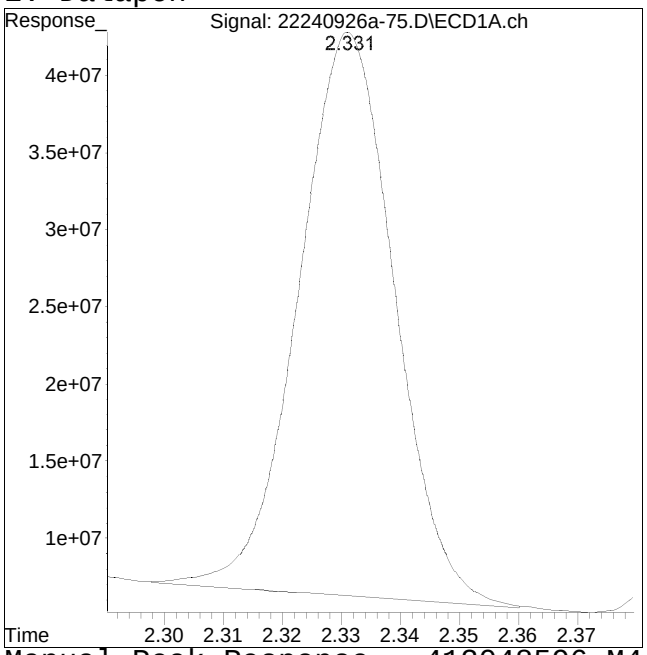
Original Peak Response = 1670742451 Manual Peak Response = 1654597731 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #2: Dalapon



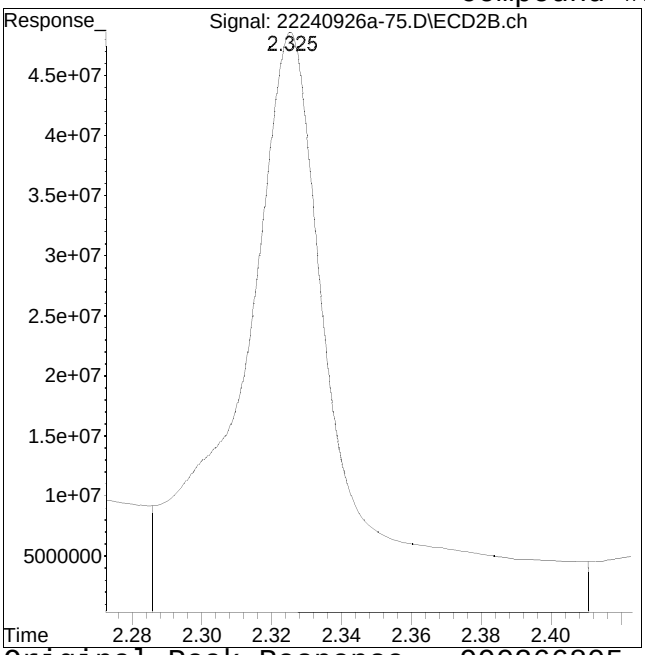


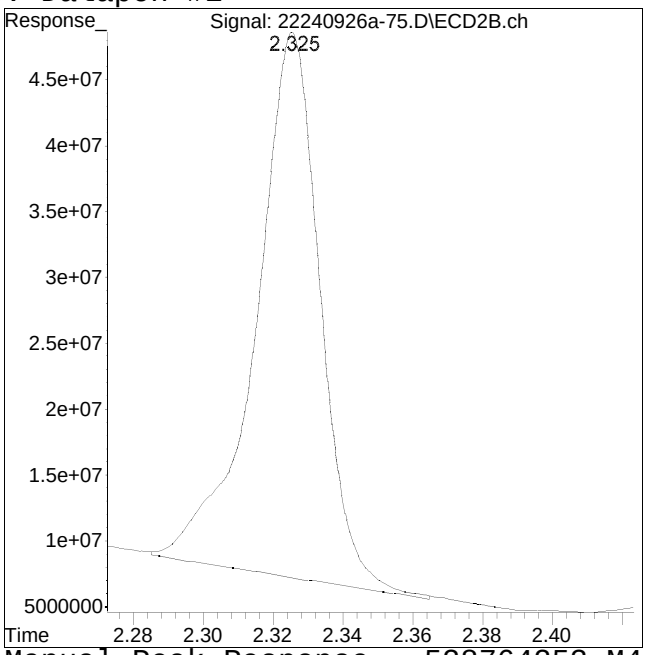
Original Peak Response = 519593639 Manual Peak Response = 412048596 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #15: Dalapon #2



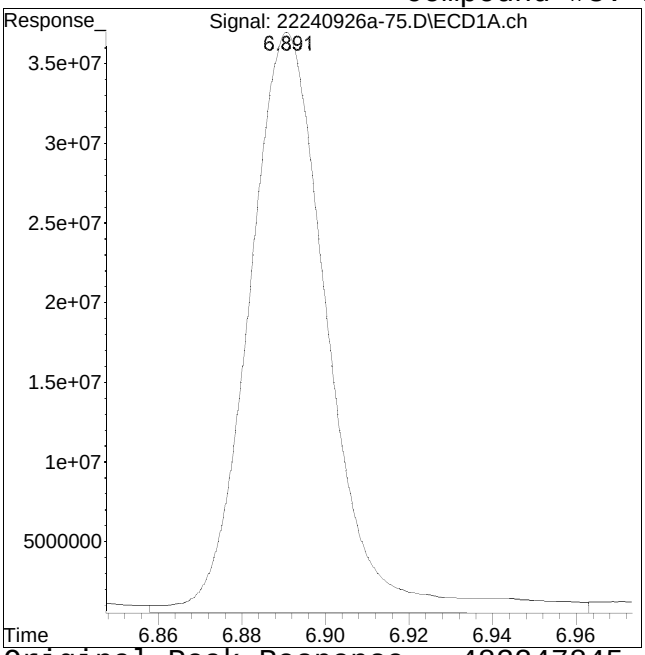


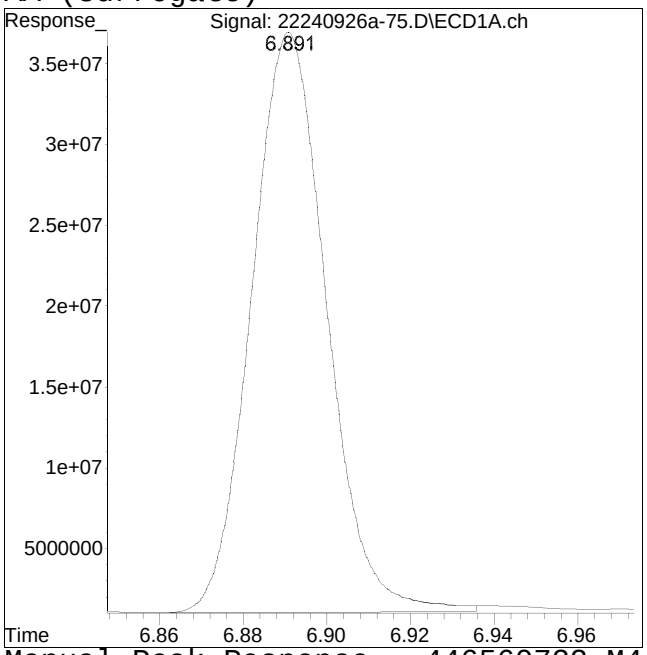
Original Peak Response = 990266805 Manual Peak Response = 528764253 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #3: DCAA (surrogate)



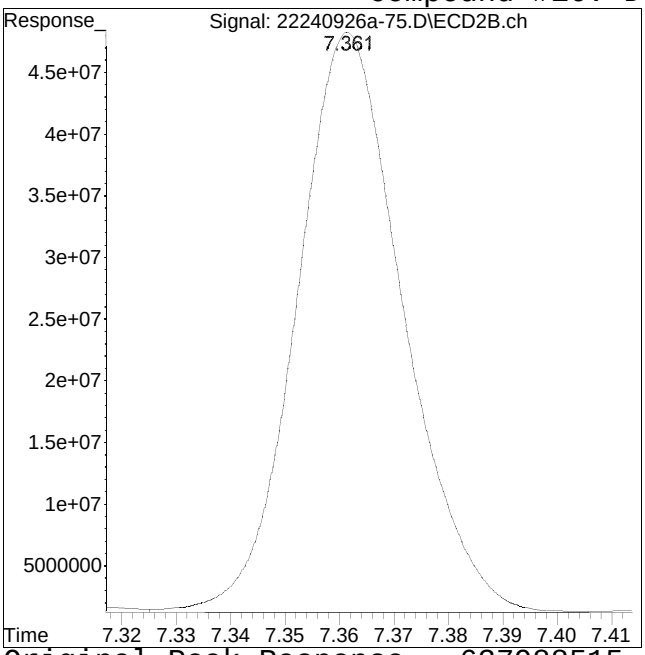


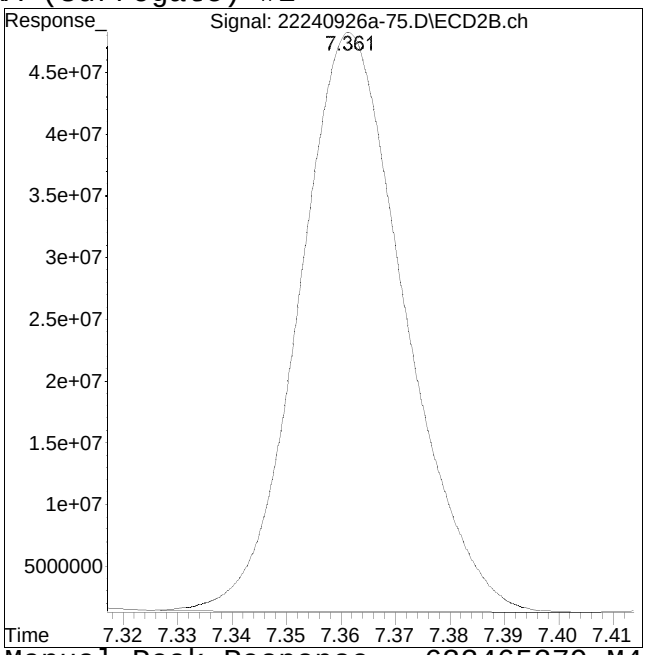
Original Peak Response = 483247845 Manual Peak Response = 446560722 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #16: DCAA (surrogate) #2



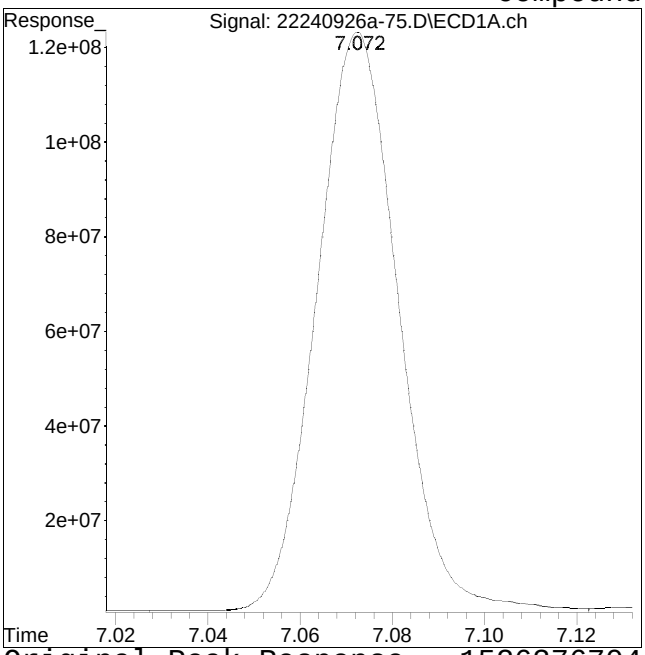


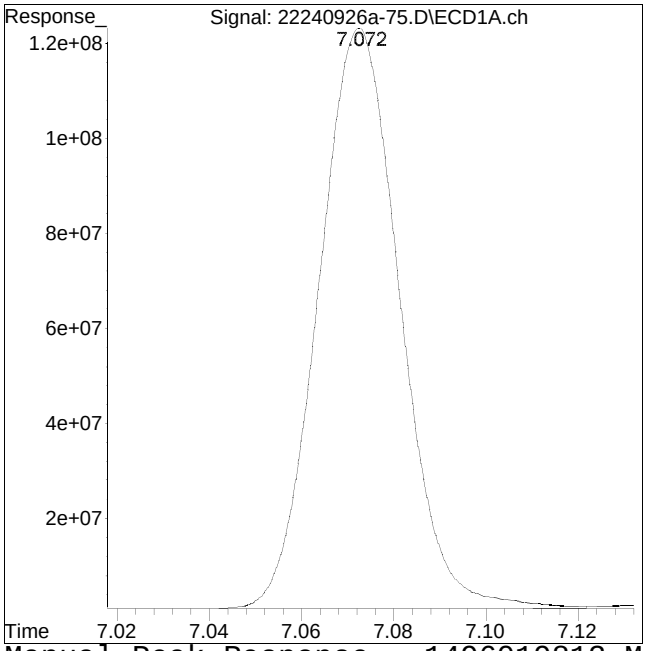
Original Peak Response = 637988515 Manual Peak Response = 632465279 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #4: Dicamba



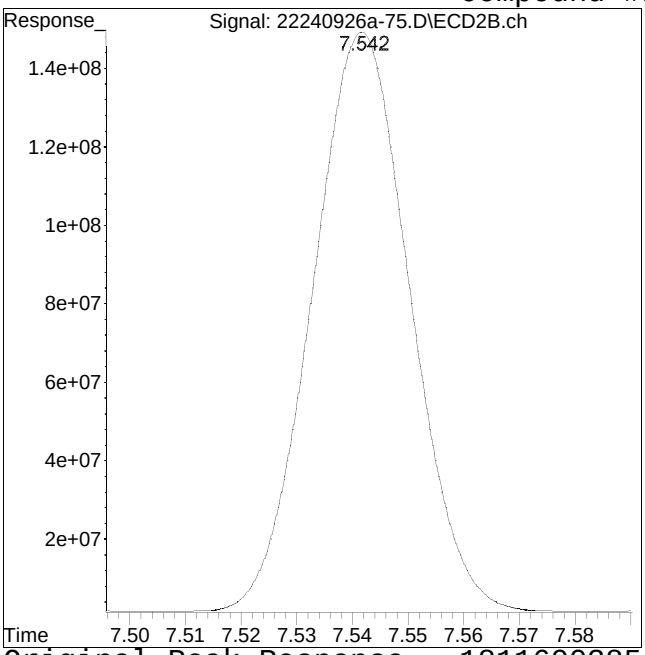


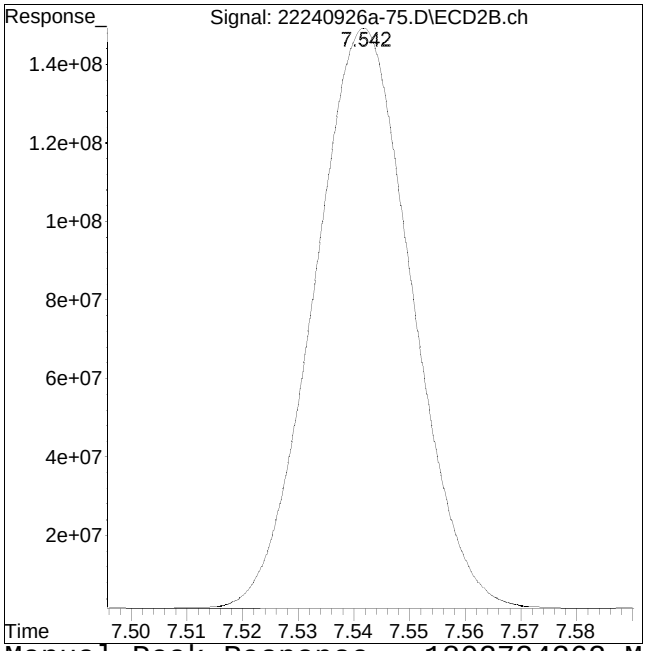
Original Peak Response = 1526376704 Manual Peak Response = 1496019813 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #17: Dicamba #2



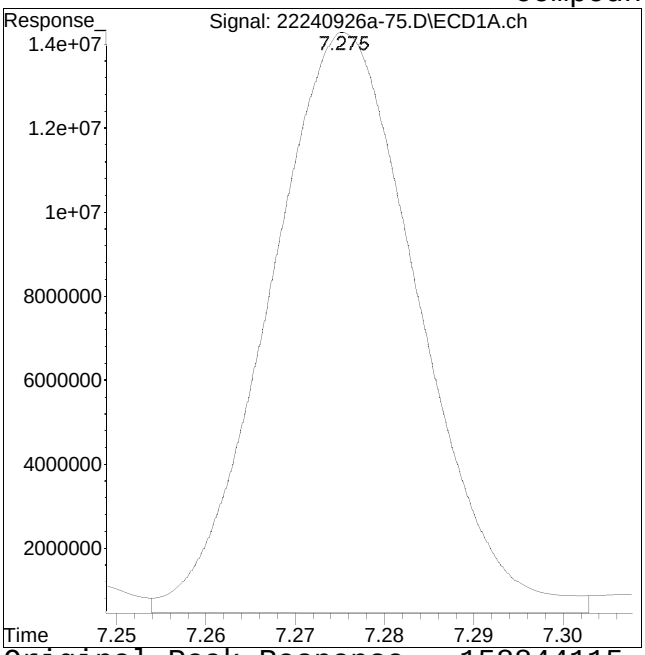


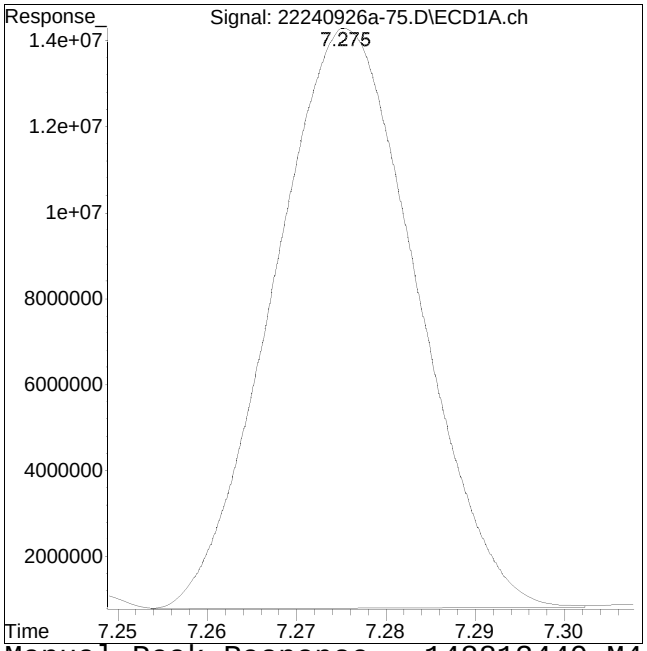
Original Peak Response = 1811600385 Manual Peak Response = 1802724362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #5: MCPP



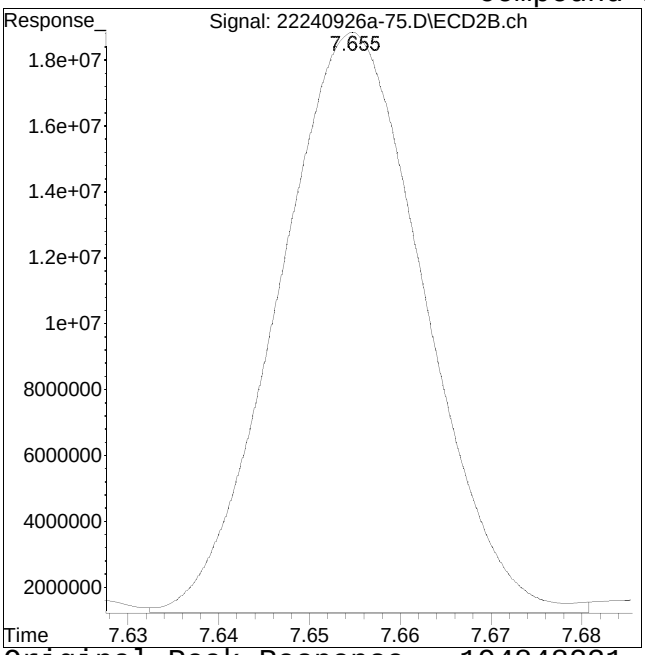


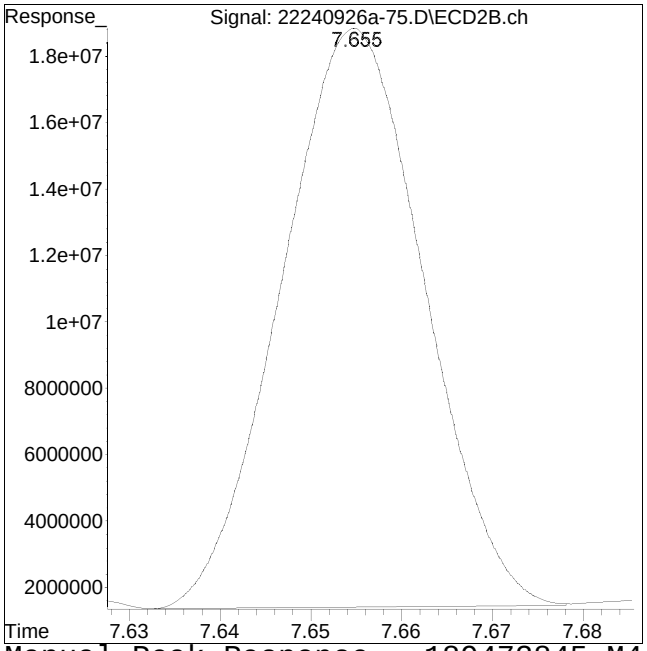
Original Peak Response = 158844115 Manual Peak Response = 148813440 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #18: MCPP #2



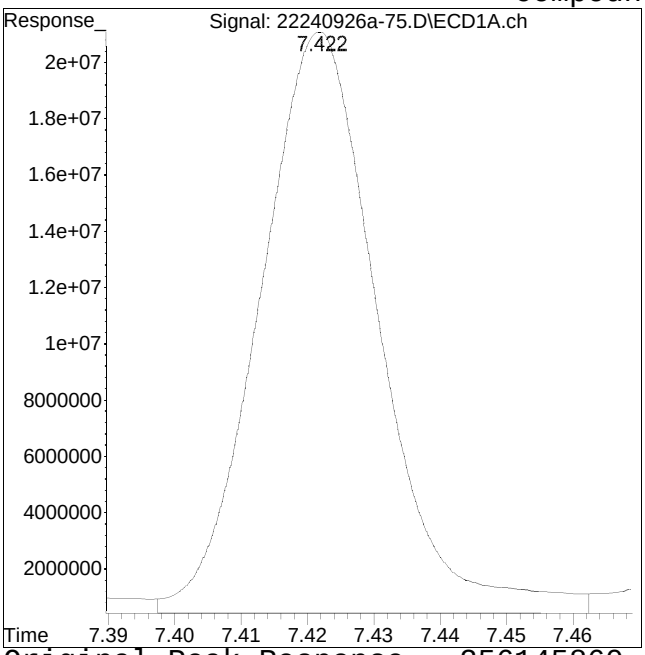


Original Peak Response = 194848231 Manual Peak Response = 189473845 M4
M4 = Poor automated baseline construction.

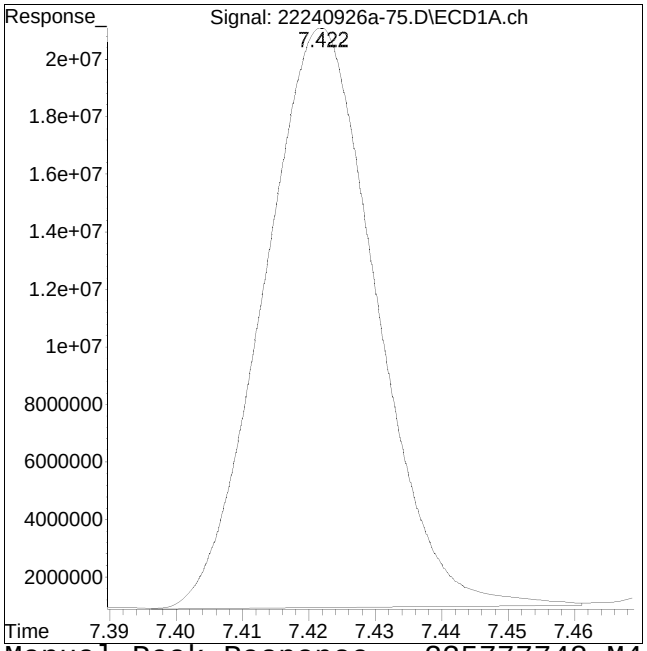
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #6: MCPA



Original Peak Response = 256145860



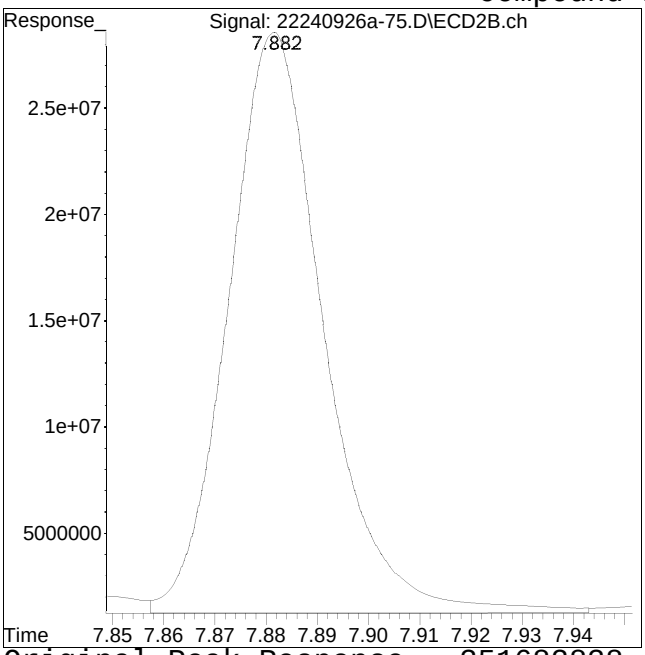
Manual Peak Response = 235777748 M4

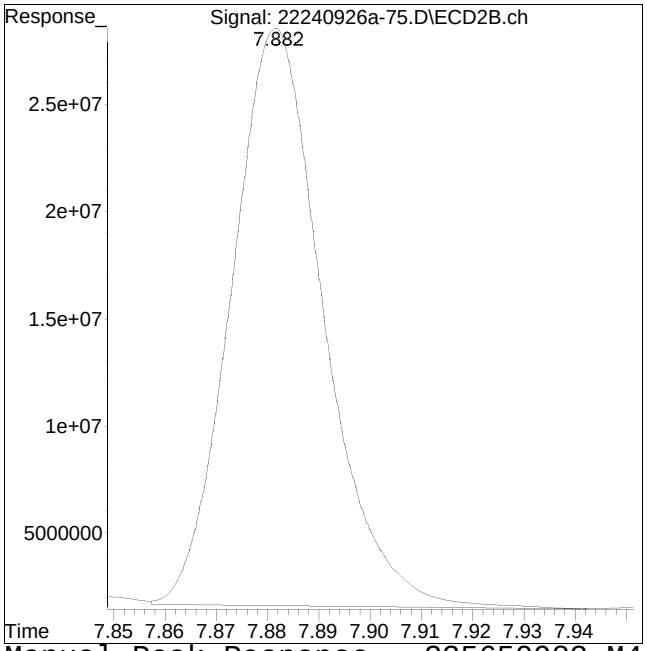
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #19: MCPA #2



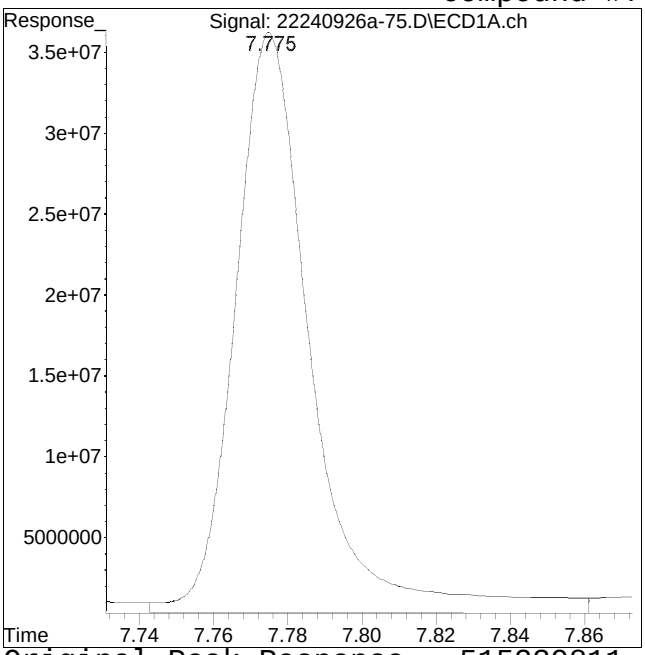


Original Peak Response = 351682838 Manual Peak Response = 335650983 M4
M4 = Poor automated baseline construction.

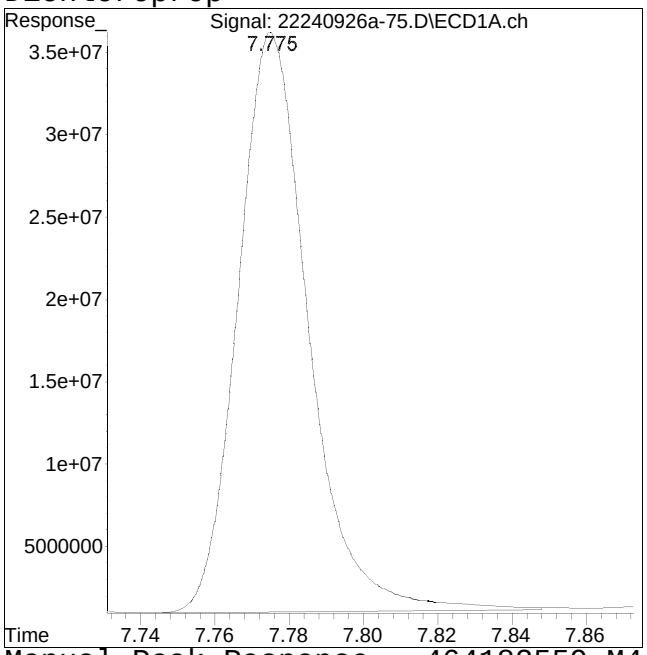
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #7: Dichloroprop



Original Peak Response = 515239811



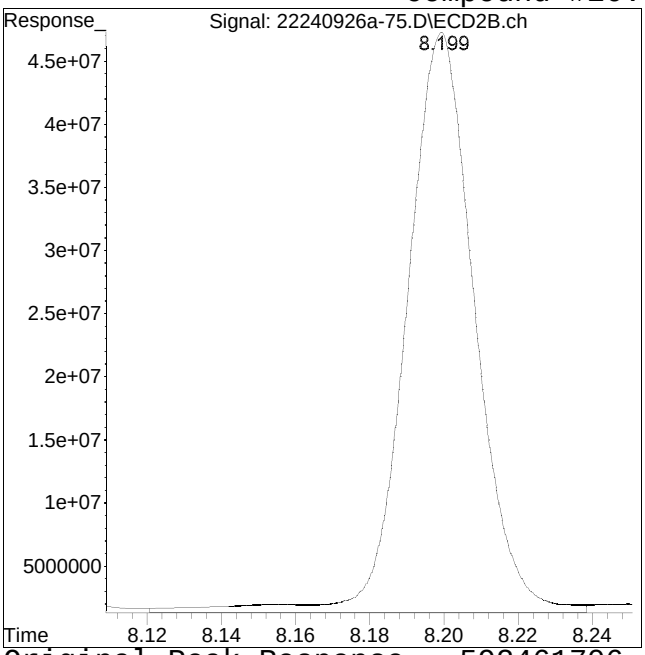
Manual Peak Response = 464182559 M4

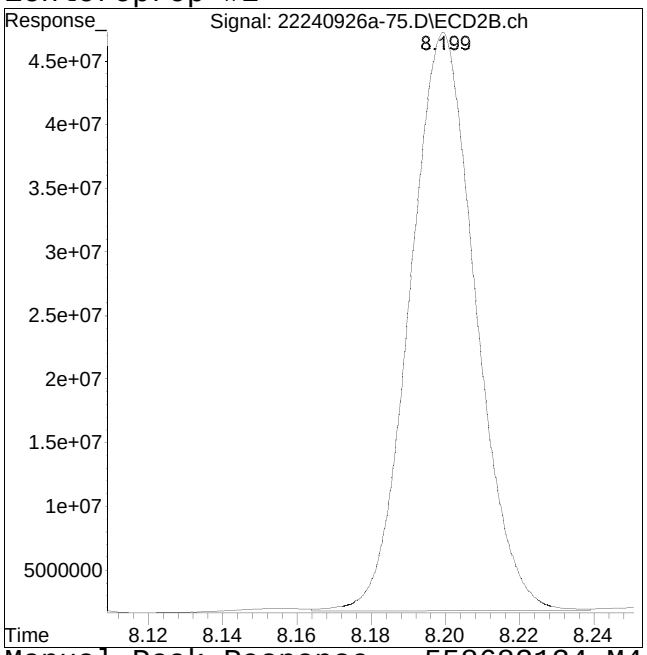
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #20: Dichloroprop #2



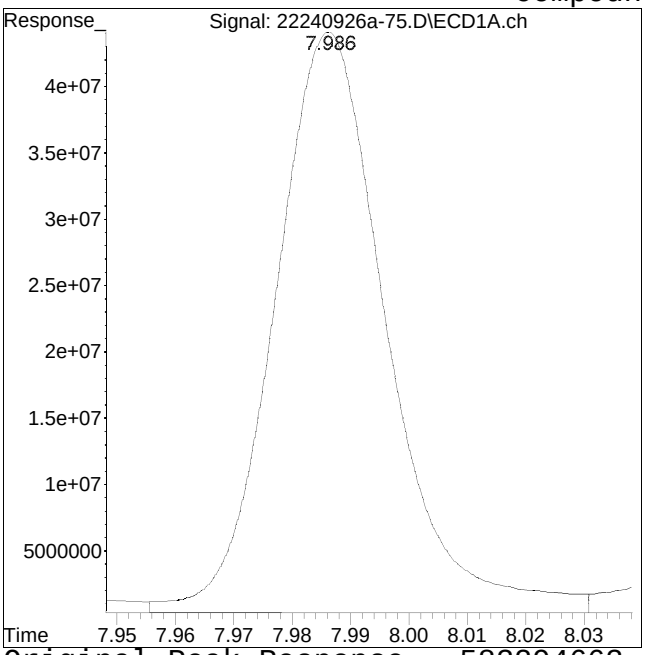


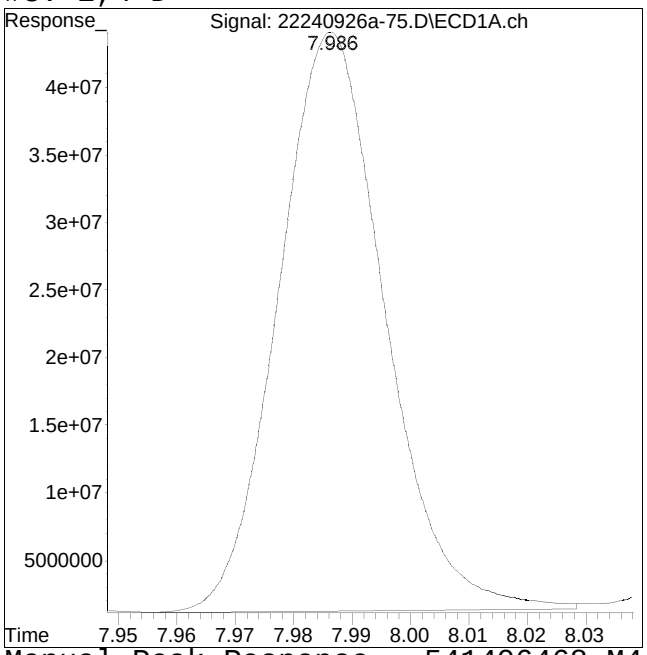
Original Peak Response = 592461706 Manual Peak Response = 558683134 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #8: 2,4-D



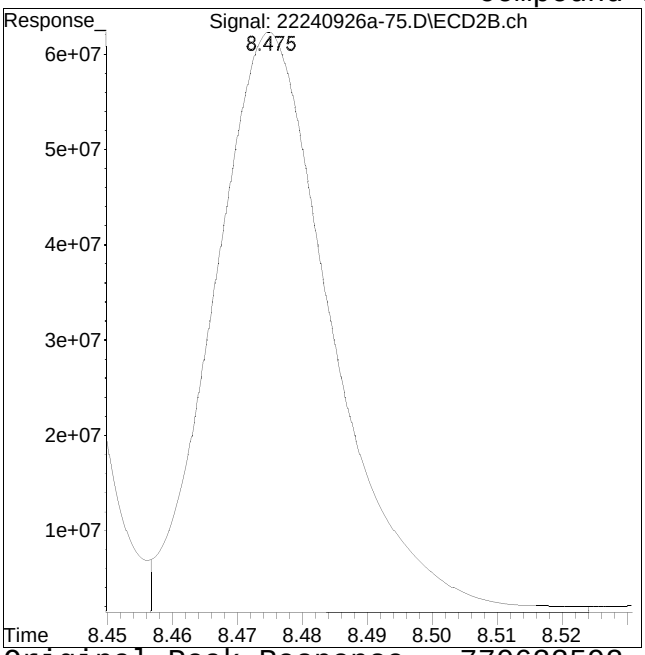


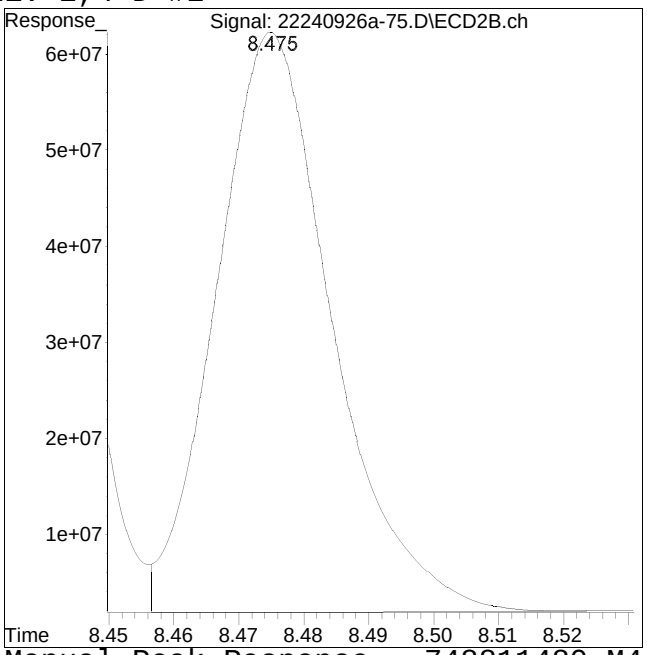
Original Peak Response = 583294663 Manual Peak Response = 541406468 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #21: 2,4-D #2



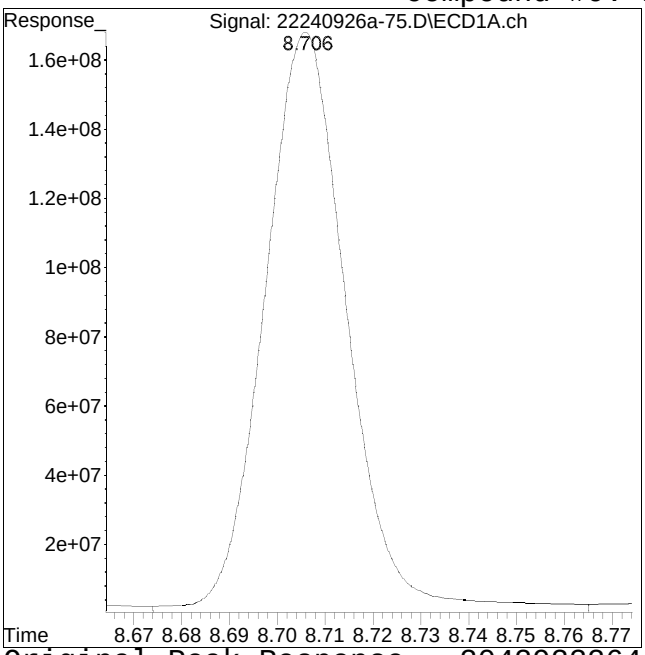


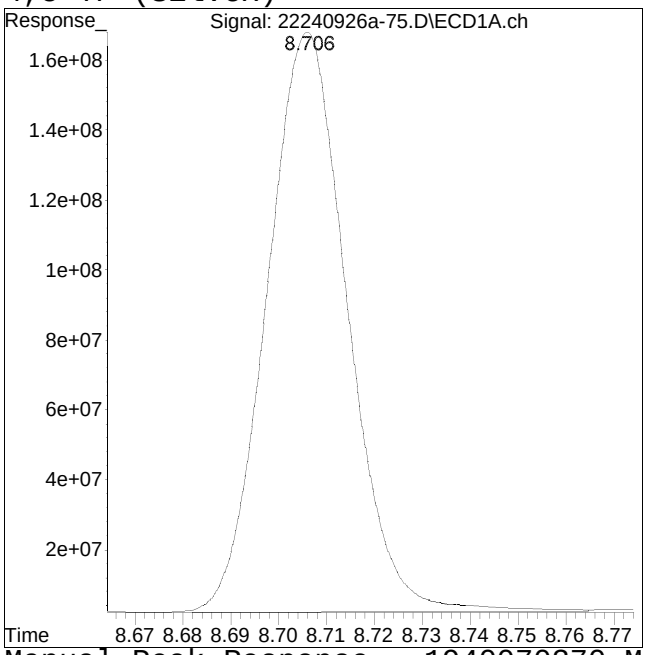
Original Peak Response = 770632592 Manual Peak Response = 748811480 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #9: 2,4,5-TP (Silvex)



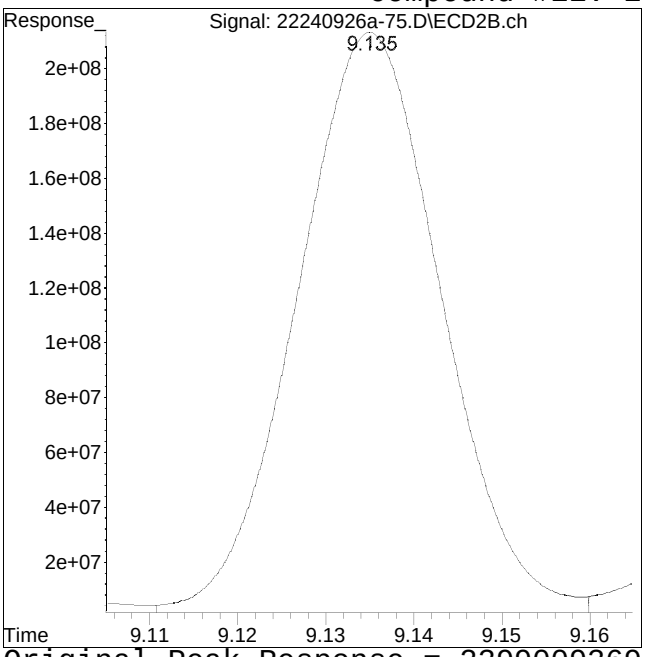


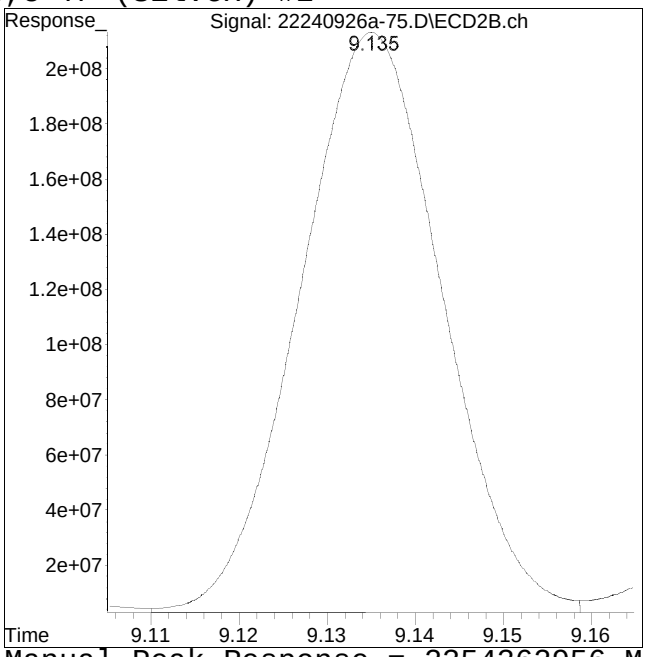
Original Peak Response = 2042923264 Manual Peak Response = 1940070370 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #22: 2,4,5-TP (Silvex) #2



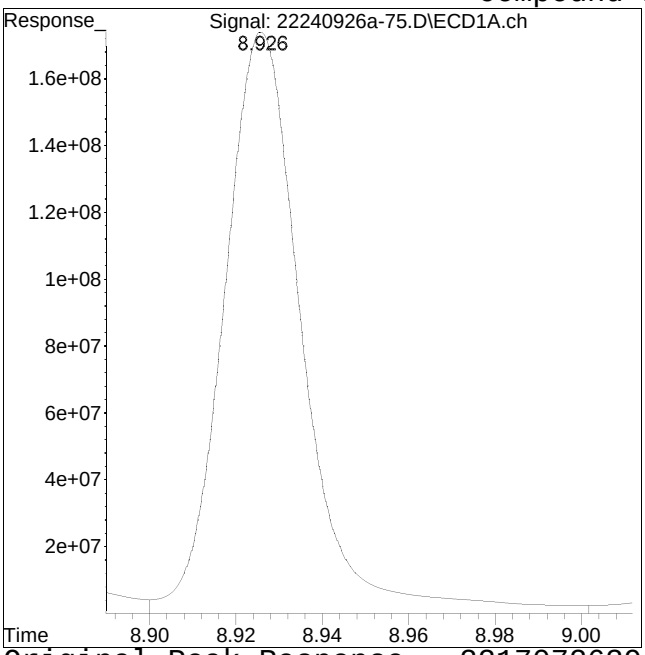


Original Peak Response = 2399009369 Manual Peak Response = 2354362956 M4
M4 = Poor automated baseline construction.

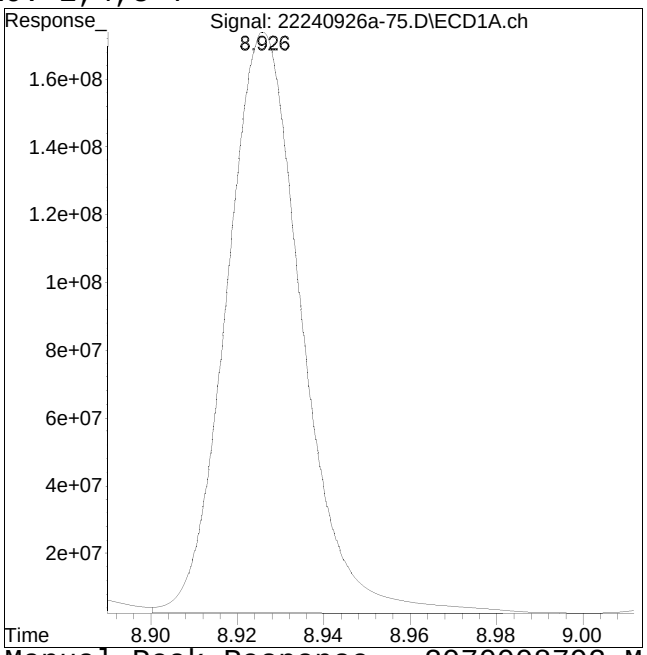
Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #10: 2,4,5-T



Original Peak Response = 2217072639

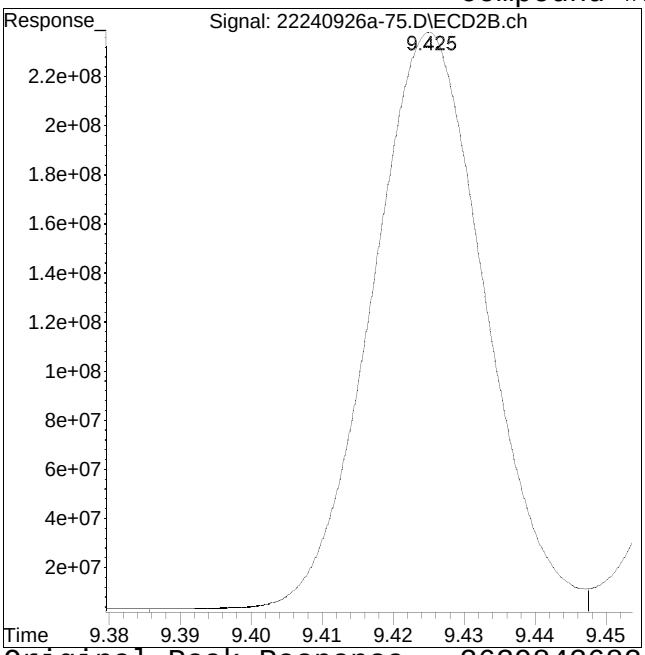


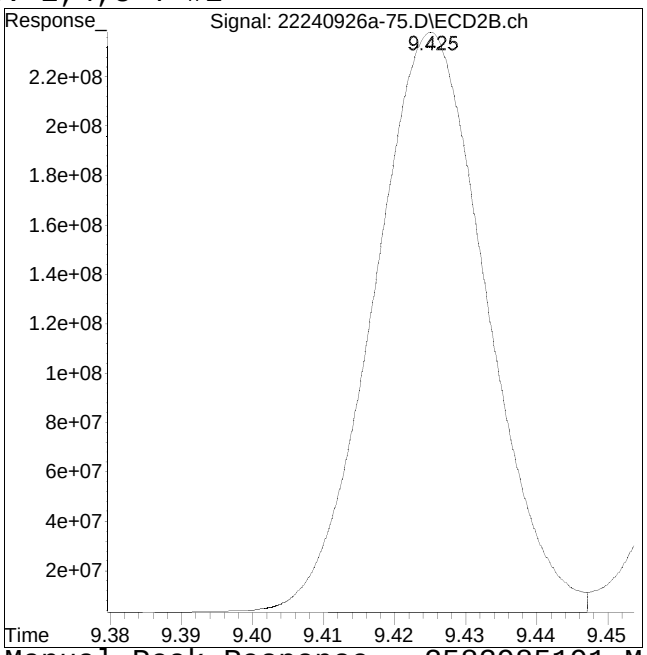
Manual Peak Response = 2070008792 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #23: 2,4,5-T #2



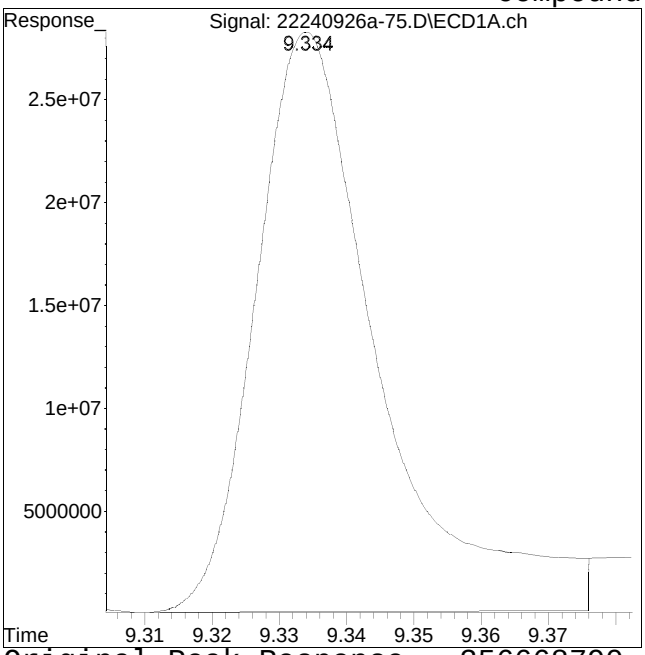


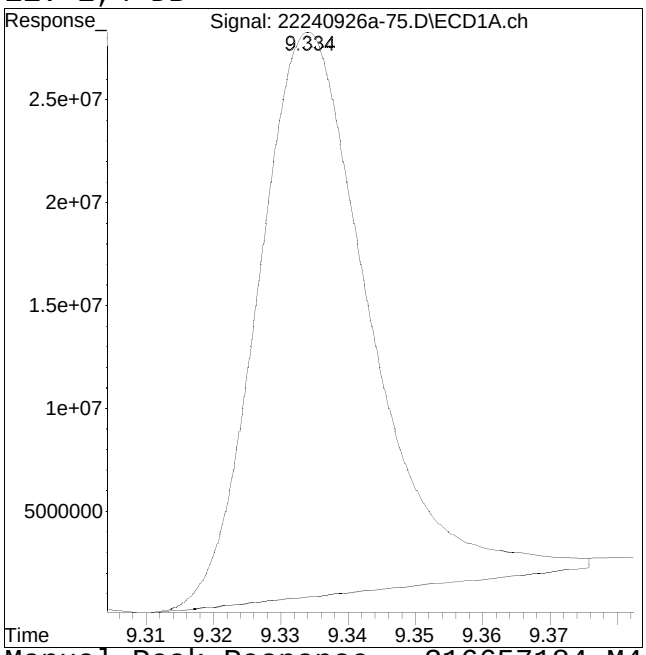
Original Peak Response = 2639843682 Manual Peak Response = 2583985191 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #11: 2,4-DB



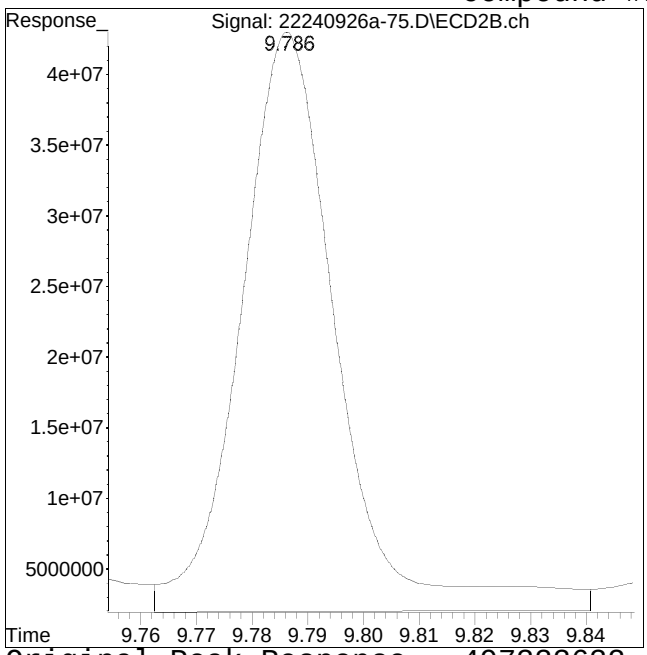


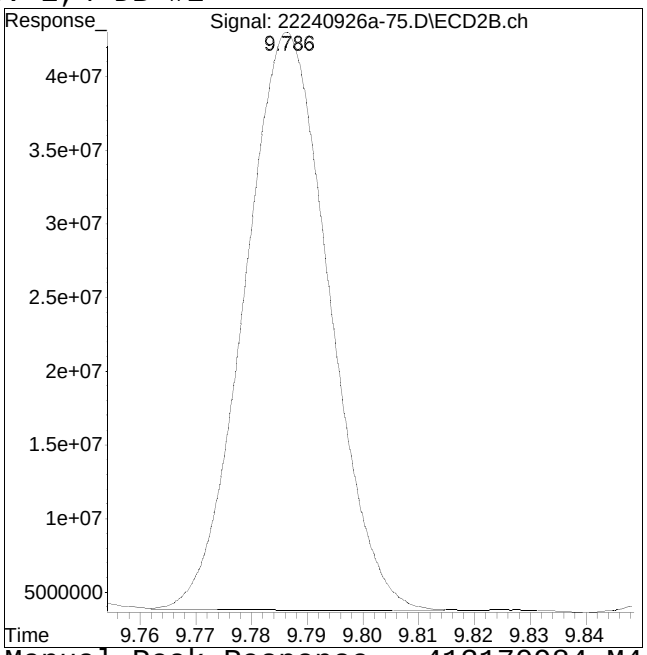
Original Peak Response = 356668790 Manual Peak Response = 316657184 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #24: 2,4-DB #2



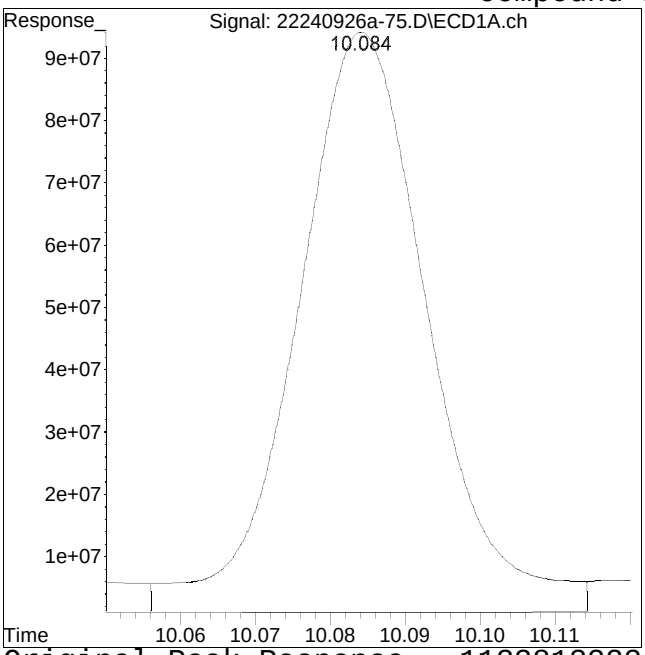


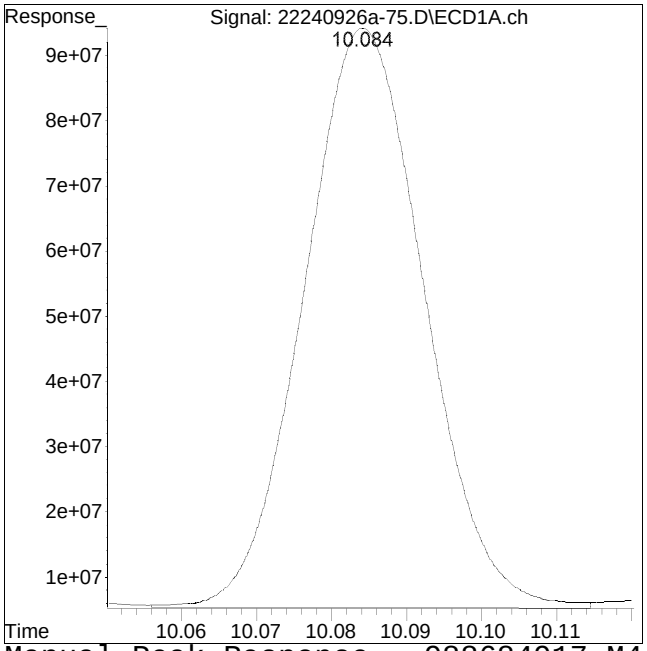
Original Peak Response = 497333632 Manual Peak Response = 413170984 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #12: Dinoseb



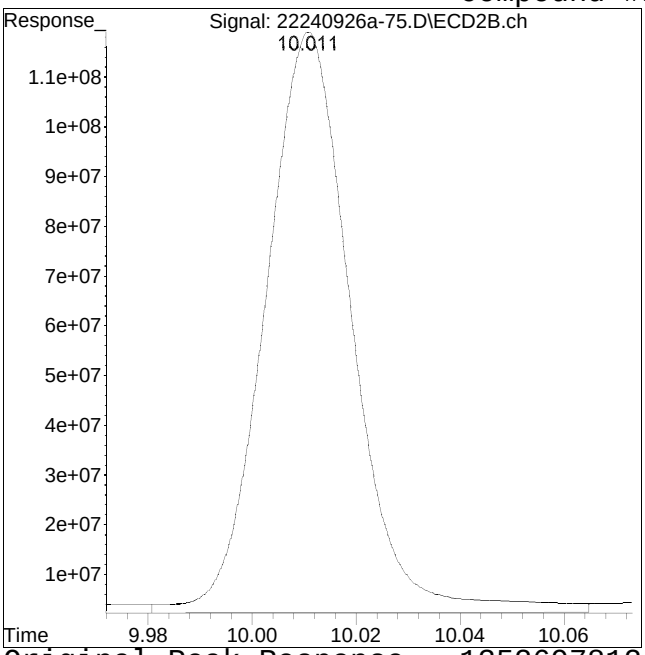


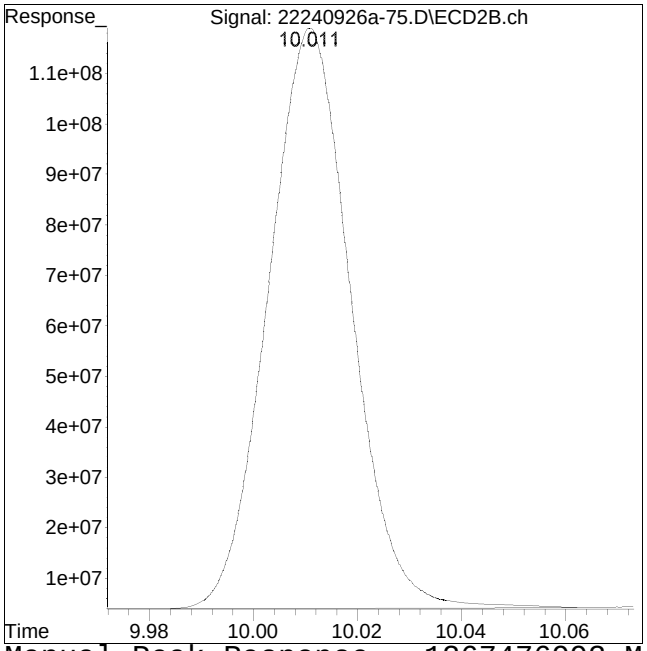
Original Peak Response = 1133813223 Manual Peak Response = 988684917 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest22\2024\240926QMethod : Herb22_2024_09_20_mgL_IC
Data File : 22240926a-75.D Operator : pest22:akm
Date Inj'd : 9/27/2024 6:50 Instrument : Pest22
Sample : WG1975468-5,42,, msd Quant Date : 9/27/2024 8:51 am

Compound #25: Dinoseb #2





Original Peak Response = 1352697812 Manual Peak Response = 1267476993 M4
M4 = Poor automated baseline construction.

Calculation of Herbicides

Aqueous Concentration Formula:
ug/L = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Vs)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Vs – Initial volume extracted (mL)
RF – Mean response factor

Soil/Solid Concentration Formula:
ug/kg = [(As)*(Cis)*(D)*Vf]/[(Ais)*(RF)*(Ws)*1000]

Where:
As – Peak area of analyte
Ais – Peak area of internal standard
Cis – Concentration of internal standard (ug/L)
D – Dilution factor (D=1 for no dilution)
Vf – Final extract volume (mL)
Ws – Initial weight extracted (g)
RF – Mean response factor

Dep.: PEST
Inst: Pest_16
Date: **08/29/24**
Run: ical

Method
GC: 8151

Seq: WG1967371
IS: pp11555

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	16240829i-01	blank,42e,,pp 11555 ---				
2	16240829i-02	il1herb,42e,,pp 11633 L0.005/5				PEG 8/30
3	16240829i-03	il2herb,42e,,pp 11632 L0.1/10				PEG 8/30
4	16240829i-04	il3herb,42e,,pp 11631 L0.2/20				PEG 8/30
5	16240829i-05	il4herb,42e,,pp 11630 L0.5/50				PEG 8/30
6	16240829i-06	il5herb,42e,,pp 11629 L1/100				PEG 8/30
7	16240829i-07	il6herb,42e,,pp 11628 L2/200				PEG 8/30
8	16240829i-08	cicv,42e,,pp 11634 L0.2/20 ICV			akm	PEG 8/30

Dep.: PEST
Inst: PEST_22
Date: **09/20/24**
Run: ical

Method
GC: herb

Seq: WG1975124
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	22240920i-01	blank,42e,,pp 11738 ---				
2	22240920i-02	il1herb,42e,,pp 11633 L0.005/5				PEG 9/21
3	22240920i-03	il2herb,42e,,pp 11632 L0.1/10				PEG 9/21
4	22240920i-04	il3herb,42e,,pp 11631 L0.2/20				PEG 9/21
5	22240920i-05	il4herb,42e,,pp 11630 L0.5/50				PEG 9/21
6	22240920i-06	il5herb,42e,,pp 11629 L1/100				PEG 9/21
7	22240920i-07	il6herb,42e,,pp 11628 L2/200				PEG 9/21
8	22240920i-08	cicv,42e,,pp 11634 L0.2/20 ICV			akm	PEG 9/21

Dep.: PEST
Inst: Pest_16
Date: **09/25/24**
Run: a

Method
GC: 8151

Seq: wg1975970
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	16240925a-01	blank				
2	16240925a-02	herb11705				EMR 9/25
3	16240925a-03	blank				
4	16240925a-04	WG1975469-1,42,, 5468				EMR 9/25
5	16240925a-05	WG1975469-2,42,, 5468				EMR 9/25
6	16240925a-06	WG1975469-3,42,, 5468				EMR 9/25
7	16240925a-07	L2453311-05,42,,				EMR 9/25
8	16240925a-08	WG1975565-1,42,, 530/529				EMR 9/25
9	16240925a-09	WG1975565-2,42,, 530/529				EMR 9/25
10	16240925a-10	WG1975565-3,42,, 530/529				EMR 9/25
11	16240925a-11	L2454436-02,42,,,R3C p				EMR 9/25
12	16240925a-12	WG1975529-4,42,, ms				EMR 9/25
13	16240925a-13	WG1975529-5,42,, dup				EMR 9/25
14	16240925a-14	L2454436-05,42,,,R3C				EMR 9/25
15	16240925a-15	WG1975814-1,42,, t	t 21-sep-24 13:57			EMR 9/25
16	16240925a-16	WG1975814-2,42,, t	t 21-sep-24 13:57			EMR 9/25
17	16240925a-17	WG1975814-3,42,, t	t 21-sep-24 13:57		akm	EMR 9/25
18	16240925a-18	L2453601-01,42,, t	t 21-sep-24 13:57			EMR 9/25
19	16240925a-19	L2453645-03,42,, t	t 21-sep-24 13:57			EMR 9/25
20	16240925a-20	L2454432-01,42,,,R3C t	t 22-sep-24 07:00			EMR 9/25
21	16240925a-21	L2454436-02,42,,,R3C t	t 22-sep-24 07:00		peg	EMR 9/25
22	16240925a-22	L2454436-05,42,,,R3C t	t 22-sep-24 07:00			EMR 9/25
23	16240925a-23	L2453342-06,42,,				EMR 9/25
24	16240925a-24	herb11705	a/b many high			EMR 9/25
25	16240925a-25	L2453342-07,42,,				EMR 9/25
26	16240925a-26	L2453342-08,42,,				EMR 9/25
27	16240925a-27	L2453342-10,42,,				EMR 9/25
28	16240925a-28	WG1975758-1,42,,			peg	JAG 9/25
29	16240925a-29	WG1975758-2,42,,				JAG 9/25
30	16240925a-30	WG1975758-3,42,,				JAG 9/25
31	16240925a-31	L2453391-11,42,,				JAG 9/25
32	16240925a-32	L2453342-01,42,,				JAG 9/25
33	16240925a-33	L2453342-02,42,,				JAG 9/25
34	16240925a-34	L2453342-03,42,,				JAG 9/25
35	16240925a-35	L2453342-04,42,,				JAG 9/25
36	16240925a-36	L2453342-05,42,,			akm	JAG 9/25

Dep.: PEST
Inst: PEST_22
Date: **09/26/24**
Run: a

Method
GC: herb

Seq: wg1976540
IS: pp11738

Vial	Data File	Sample		CCAL/Notes	Screen	Verified	initials
1	22240926a-01	herb11705	245t, a: 24d, silvex, 24db high, b: dino high, 6:13				PEG 9/26
2	22240926a-02	L2453730-01,42,,					AKM 9/26
3	22240926a-03	L2453730-03,42,,					AKM 9/26
4	22240926a-04	L2453730-04,42,,					AKM 9/26
5	22240926a-05	L2453730-07,42,,					AKM 9/26
6	22240926a-06	L2453730-10,42,,		re, s			AKM 9/26
7	22240926a-07	L2453730-11,42,,					AKM 9/26
8	22240926a-08	L2453730-13,42,,					AKM 9/26
9	22240926a-09	L2453616-07,42,,					AKM 9/26
10	22240926a-10	L2453616-13,42,,					AKM 9/26
11	22240926a-11	L2453616-15,42,,					AKM 9/26
12	22240926a-12	herb11705	a: dicamba high, 11:20				AKM 9/26
13	22240926a-13	L2454005-01,42,,	p				JAG 9/26
14	22240926a-14	WG1975530-4,42,,	ms				JAG 9/26
15	22240926a-15	WG1975530-5,42,,	dup			peg	JAG 9/26
16	22240926a-16	WG1976389-1,42,,	t	t 22-SEP-24 07:00			JAG 9/26
17	22240926a-17	WG1976389-2,42,,	t	t 22-SEP-24 07:00			JAG 9/26
18	22240926a-18	WG1976389-3,42,,	t	t 22-SEP-24 07:00			JAG 9/26
19	22240926a-19	L2453929-01,42,,,R3E	t	t 22-SEP-24 07:00			JAG 9/26
20	22240926a-20	L2453730-02,42,,					JAG 9/26
21	22240926a-21	L2453730-05,42,,					JAG 9/26
22	22240926a-22	L2453730-06,42,,					JAG 9/26
23	22240926a-23	L2453730-08,42,,					JAG 9/26
24	22240926a-24	L2453730-09,42,,					JAG 9/26
25	22240926a-25	L2453730-12,42,,				akm	JAG 9/26
26	22240926a-26	L2453730-14,42,,					JAG 9/26
27	22240926a-27	L2453620-01,42,,					JAG 9/26
28	22240926a-28	herb11705	15% 16:17				JAG 9/26
29	22240926a-29	L2454080-01,42,,					JAG 9/26
30	22240926a-30	L2454080-02,42,,					JAG 9/26
31	22240926a-31	L2454080-03,42,,					JAG 9/26
32	22240926a-32	L2454088-01,42,,					JAG 9/26
33	22240926a-33	L2454088-02,42,,					JAG 9/26
34	22240926a-34	L2454088-03,42,,					JAG 9/26
35	22240926a-35	L2454088-04,42,,					JAG 9/26
36	22240926a-36	L2454288-01,42,,,R5E					JAG 9/26
37	22240926a-37	L2454548-01,42,,,R3C					JAG 9/26
38	22240926a-38	L2454548-02,42,,,R3C					JAG 9/26
39	22240926a-39	herb11705	15% 19:41				JAG 9/26
40	22240926a-40	L2454548-03,42,,,R3C				peg	AKM 9/27
41	22240926a-41	L2454657-01,42,,					AKM 9/27
42	22240926a-42	L2454657-02,42,,					AKM 9/27
43	22240926a-43	L2454657-03,42,,					AKM 9/27
44	22240926a-44	L2453915-01,42,,	t	t 22-sep-24 07:00			AKM 9/27
45	22240926a-45	L2453876-01,42,,	t	t 22-sep-24 07:00			AKM 9/27

Dep.: PEST
Inst: PEST_22
Date: **09/26/24**
Run: a

Method
GC: herb

Seq: wg1976540
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
46	22240926a-46	L2453870-01,42,, t	t 22-sep-24 07:00			AKM 9/27
47	22240926a-47	L2453620-02,42,,			akm	AKM 9/27
48	22240926a-48	WG1976116-1,42,, 181 182 183				AKM 9/27
49	22240926a-49	WG1976116-2,42,, 181 182 183				AKM 9/27
50	22240926a-50	WG1976116-3,42,, 181 182 183				AKM 9/27
51	22240926a-51	L2454093-01,42,,				AKM 9/27
52	22240926a-52	L2454093-02,42,,				AKM 9/27
53	22240926a-53	herb11705 15% 00:01				AKM 9/27
54	22240926a-54	L2454093-03,42,,				AKM 9/27
55	22240926a-55	L2454093-04,42,,				AKM 9/27
56	22240926a-56	L2454093-05,42,,				AKM 9/27
57	22240926a-57	L2454093-06,42,,				AKM 9/27
58	22240926a-58	L2454093-07,42,,				AKM 9/27
59	22240926a-59	L2454093-08,42,,				AKM 9/27
60	22240926a-60	L2454093-09,42,,				AKM 9/27
61	22240926a-61	L2454093-10,42,,				AKM 9/27
62	22240926a-62	L2454093-11,42,,				AKM 9/27
63	22240926a-63	L2454093-12,42,,				AKM 9/27
64	22240926a-64	herb11705 15% 3:26				AKM 9/27
65	22240926a-65	L2454093-13,42,,				AKM 9/27
66	22240926a-66	L2454093-14,42,,			jag	AKM 9/27
67	22240926a-67	WG1976393-1,42,, 5958				AKM 9/27
68	22240926a-68	WG1976393-2,42,, 5958				AKM 9/27
69	22240926a-69	WG1976393-3,42,, 5958				AKM 9/27
70	22240926a-70	L2454059-01,42,,				AKM 9/27
71	22240926a-71	L2454059-02,42,,				AKM 9/27
72	22240926a-72	L2453975-23,42,,				AKM 9/27
73	22240926a-73	L2453720-02,42,, p				AKM 9/27
74	22240926a-74	WG1975468-4,42,, ms				AKM 9/27
75	22240926a-75	WG1975468-5,42,, msd				AKM 9/27
76	22240926a-76	L2453720-01,42,,				AKM 9/27
77	22240926a-77	L2453720-03,42,,				AKM 9/27
78	22240926a-78	L2453720-04,42,,				AKM 9/27
79	22240926a-79	L2453720-06,42,,				AKM 9/27
80	22240926a-80	herb11705				
81	22240926a-81	L2453720-07,42,,				
82	22240926a-82	L2453720-08,42,,				
83	22240926a-83	L2453720-09,42,,				
84	22240926a-84	L2454380-01,42,,				
85	22240926a-85	L2454380-02,42,,			jag	
86	22240926a-86	WG1976232-1,42,, mcp				
87	22240926a-87	WG1976232-2,42,, mcp				
88	22240926a-88	WG1976232-3,42,, mcp				
89	22240926a-89	L2454348-01,42,,,R3E mcp				
90	22240926a-90	L2454348-02,42,,,R3E mcp				

Dep.: PEST
Inst: PEST_22
Date: **09/26/24**
Run: a

Method
GC: herb

Seq: wg1976540
IS: pp11738

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
91	22240926a-91	L2454348-03,42,,,R3E mcp				
92	22240926a-92	L2454348-04,42,,,R3E mcp				
93	22240926a-93	L2454348-05,42,,,R3E mcp				
94	22240926a-94	herb11705				
95	22240926a-95	L2454348-06,42,,,R3E mcp				
96	22240926a-96	L2454348-07,42,,,R3E mcp				
97	22240926a-97	L2454348-08,42,,,R3E mcp				
98	22240926a-98	L2454348-09,42,,,R3E mcp				
99	22240926a-99	L2454348-10,42,,,R3E mcp			peg	

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 27 2024, 12:13 pm

Work Group: WG1975468 for Department: 2 Organic Preparation

Created: 24-SEP-24 Due: Operator: MAD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453342-01	MP-1	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-02	MP-1D	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-03	MW-13D	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-04	MW-13S	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-05	MW-10D	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-06	MW-10S	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-07	MW-6D	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-08	PZ-6	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453342-10	EQUIPMENT BLANK	S	HERB-8151	WATER	DONE	U	0924	0924	S0	Amber-A1
L2453720-01	MW-8S	S	HERB-8151	WATER	DONE	U	0925	0925	S0	Amber-A1
L2453720-02	MW-8D	S	HERB-8151	WATER	DONE	U	0925	0925	S0	Amber-A1
L2453720-03	DUP_091824	S	HERB-8151	WATER	DONE	U	0925	0925	S0	Amber-A1
L2453720-04	EQUIPMENT BLANK	S	HERB-8151	WATER	DONE	U	0925	0925	S0	Amber-A1
L2453720-06	MW-5D	S	HERB-8151	WATER	DONE	U	0925	0925	S0	Amber-A1
L2453720-07	PZ-5	S	HERB-8151	WATER	DONE	U	0925	0925	S0	Amber-A1
L2453720-08	MW-12S	S	HERB-8151	WATER	DONE	U	0925	0925	S0	Amber-A1
L2453720-09	MW-12D	S	HERB-8151	WATER	DONE	U	0925	0925	S0	Amber-A1
L2454380-01	24I2734-01	S	HERB-8151	WATER	DONE	U	0925	1004	S0	Amber-A1
L2454380-02	24I2734-02	S	HERB-8151	WATER	DONE	U	0925	1004	S0	Amber-A1
WG1975468-1	Laboratory Method Bl	S	HERB-8151	WATER	DONE	U				
WG1975468-2	Laboratory Control S	S	HERB-8151	WATER	DONE	U				
WG1975468-3	LCS Duplicate	S	HERB-8151	WATER	DONE	U				
WG1975468-4	Matrix Spike	S	HERB-8151	WATER	DONE	U				
WG1975468-5	Matrix Spike Duplica	S	HERB-8151	WATER	DONE	U				

Comments:

WG1975468-3	WG1975468-2
WG1975468-4	L2453720-02
WG1975468-5	L2453720-02

ORGANIC ELN REPORT

Workgroup: WG1975468

Prep Method: EPA 8151A
Solvent Type: Diethyl ether **Lot #:** 24050143
Surrogate Type: Herbicide **Lot #:** PP11710BC-012625
Spike Type: Herbicides **Lot #:** PP11709AD-012525
Spike Verify by: MAD
Lims Spikelot: HERB8151

Additional Reagents/Stds

12N H2SO4	12A091224
25% NaOH	Na091024
Acidified Na2SO4	AS092424
DCM	EJ089
Diethyl ether	24050143
Na2S2O3	NA
NaCl	24C2556110

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Diethyl ether
Lot #: 24050143

Additional Reagents/Stds

Acidified Na2SO4	AS092424
Diazomethane	D091924
Hexane	EJ061
Isooctane	STBK8849
Methanol	64039
Silicic Acid	MKCL9565

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol ml	Ph	Trc Check	Surr Amt ml	Spike Amt ml	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume ml	Methylation Date	ml ml	Conc Unit
L2453342-01 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-02 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-03 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-04 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-05 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7

Reported: 27-SEP-24 12:13 PM

ORGANIC ELN REPORT

Workgroup: WG1975468

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
L2453342-06 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-07 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-08 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453342-10 SAMP	09/24/24 08:48	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
L2453720-01 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7
L2453720-02 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7
L2453720-03 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7
L2453720-04 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7
L2453720-06 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7

Reported: 27-SEP-24 12:13 PM

ORGANIC ELN REPORT

Workgroup: WG1975468

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
L2453720-07 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7
L2453720-08 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7
L2453720-09 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7
L2454380-01 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7
L2454380-02 SAMP	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5		09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7
WG1975468-1 BLANK	09/24/24 08:48 **WG1975469**	Michael Daring	1000	>12, <2	-	.5		09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
WG1975468-2 LCS	09/24/24 08:48 **WG1975469**	Michael Daring	1000	>12, <2	-	.5	.5	09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
WG1975468-3 LCSD	09/24/24 08:48 **WG1975469**	Michael Daring	1000	>12, <2	-	.5	.5	09/24/24 09:45	09/24/24 11:15	09/24/24 22:19	Caleb Agyepong	0.5	09/24/24 23:02	10	S-EVAP G,N#7
WG1975468-4 MS	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5	.5	09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7

Reported: 27-SEP-24 12:13 PM

ORGANIC ELN REPORT

Workgroup: WG1975468

Sample/ Type	Extraction									Concentration					
	Extract Date	Analyst	Sample Vol **ml**	Ph	Trc Check	Surr Amt **ml**	Spike Amt **ml**	Hydrolysis Start	Hydrolysis Stop	Conc Date	Analyst	Conc Volume **ml**	Methylation Date	ml **ml**	Conc Unit
WG1975468-5 MSD	09/25/24 07:03	Michael Daring	1000	>12, <2	-	.5	.5	09/25/24 11:15	09/25/24 12:45	09/26/24 13:30	Michael Daring	0.5	09/26/24 14:10	10	G&J, N#7

Reported: 27-SEP-24 12:13 PM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453720
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-8S (L2453720-01)	88	76	98	85			0
MW-8D (L2453720-02)	83	70	91	84			0
DUP_091824 (L2453720-03)	88	74	92	84			0
EQUIPMENT BLANK (L2453720-04)	89	74	83	73			0
MW-5D (L2453720-06)	87	74	90	82			0
PZ-5 (L2453720-07)	94	76	99	83			0
MW-12S (L2453720-08)	85	73	87	84			0
MW-12D (L2453720-09)	83	72	76	72			0
WG1975830-1BLANK	86	73	87	85			0
WG1975830-2LCS	83	70	81	78			0
WG1975830-3LCSD	87	75	91	90			0
MW-8DMS	79	68	82	76			0
MW-8DMSD	87	71	92	79			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1975830-2 **Analysis Date** : 09/25/24 21:49	**File ID**	: P2240925b-36
LCSD Sample ID	: WG1975830-3 **Analysis Date** : 09/25/24 21:57	**File ID**	: P2240925b-37

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.39	78	1.78	1.48	83	6	40-140	50
Aroclor 1260	1.78	1.45	81	1.78	1.61	90	11	40-140	50

Matrix Spike Sample Summary
Form 3
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/25/24 22:15
Matrix Spike	: WG1975830-4	**MS Analysis Date**	: 09/25/24 22:23
Matrix Spike Dup	: WG1975830-5	**MSD Analysis Date**	: 09/25/24 22:32

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	ND	1.78	1.37	77	1.78	1.49	83	8	40-140	50
Aroclor 1260	ND	1.78	1.45	81	1.78	1.59	89	9	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1975830-1	**Lab File ID**	: P2240925b-35
Matrix	: WATER	**Extraction Date**	: 09/25/24
Sulfur Cleanup	: Y		
Analysis Date (1)	: 09/25/24 21:40	**Analysis Date (2)**	: 09/25/24 21:40
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1975830-2LCS	WG1975830-2	09/25/24 21:49	09/25/24 21:49
WG1975830-3LCSD	WG1975830-3	09/25/24 21:57	09/25/24 21:57
MW-8S	L2453720-01	09/25/24 22:06	09/25/24 22:06
MW-8D	L2453720-02	09/25/24 22:15	09/25/24 22:15
MW-8DMS	WG1975830-4	09/25/24 22:23	09/25/24 22:23
MW-8DMSD	WG1975830-5	09/25/24 22:32	09/25/24 22:32
DUP_091824	L2453720-03	09/25/24 22:41	09/25/24 22:41
EQUIPMENT BLANK	L2453720-04	09/25/24 22:49	09/25/24 22:49
MW-5D	L2453720-06	09/25/24 22:58	09/25/24 22:58
PZ-5	L2453720-07	09/25/24 23:07	09/25/24 23:07
MW-12S	L2453720-08	09/25/24 23:16	09/25/24 23:16
MW-12D	L2453720-09	09/25/24 23:24	09/25/24 23:24

Analytical Sequence
Form 8b
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 09/16/24 09/16/24

Client ID	Lab ID	Date/Time Analyzed
1016/1260 L1 (4ug/L)	R1876926-1	09/16/24 15:29
1016/1260 L2 (10ug/L)	R1876926-2	09/16/24 15:38
1016/1260 L3 (20ug/L)	R1876926-3	09/16/24 15:47
1016/1260 L4 (30ug/L)	R1876926-4	09/16/24 15:55
1016/1260 L5 (40ug/L)	R1876926-5	09/16/24 16:04
1016/1260 L6 (50ug/L)	R1876926-6	09/16/24 16:13
1016/1260 L7 (100ug/L)	R1876926-8	09/16/24 16:22
1016/1260 L8 (250ug/L)	R1876926-7	09/16/24 16:30
1016/1260 L9 (500ug/L)	R1876926-9	09/16/24 16:39
1016/1260 L10 (1000ug/L)	R1876926-10	09/16/24 16:48
R1876926-11 ICV	R1876926-11	09/16/24 16:56
1221/1254 L8 (250ug/L)	R1876926-12	09/16/24 17:14
1248 L8 (250ug/L)	R1876926-13	09/16/24 17:23
1232/1262 L8 (250ug/L)	R1876926-14	09/16/24 17:32
1242/1268 L8 (250ug/L)	R1876926-15	09/16/24 17:41
R1876926-16 ICV	R1876926-16	09/16/24 17:49
R1876926-17 ICV	R1876926-17	09/16/24 17:58
R1876926-19 ICV	R1876926-19	09/16/24 18:07
R1876926-18 ICV	R1876926-18	09/16/24 18:15
WG1976073-5 CCAL	WG1976073-5	09/25/24 20:39
WG1975830-1 BLANK	WG1975830-1	09/25/24 21:40
WG1975830-2 LCS	WG1975830-2	09/25/24 21:49
WG1975830-3 LCSD	WG1975830-3	09/25/24 21:57
MW-8S	L2453720-01	09/25/24 22:06
MW-8D	L2453720-02	09/25/24 22:15
MW-8D MS	WG1975830-4	09/25/24 22:23
MW-8D MSD	WG1975830-5	09/25/24 22:32
DUP_091824	L2453720-03	09/25/24 22:41
EQUIPMENT BLANK	L2453720-04	09/25/24 22:49
MW-5D	L2453720-06	09/25/24 22:58
PZ-5	L2453720-07	09/25/24 23:07
MW-12S	L2453720-08	09/25/24 23:16
MW-12D	L2453720-09	09/25/24 23:24

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 22:06
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240925b-38	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 22:15
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240925b-39	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 22:41
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240925b-42	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 22:49
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240925b-43	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 22:58
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240925b-44	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 23:07
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240925b-45	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 23:16
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240925b-46	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 23:24
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240925b-47	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975830-1	**Date Collected**	: NA
Client ID	: WG1975830-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 21:40
Sample Matrix	: WATER	**Date Extracted**	: 09/25/24
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2240925b-35	**Analyst**	: MHG
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:06
Operator : pest2:mhg
Sample : L2453720-01,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:27 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.183	1.250	218.9E6	271.8E6	25.000	25.000
Standard Area 1 : #1 = 195158947				Recovery =	112.16%	
Standard Area 1 : #2 = 287485006				Recovery =	94.53%	
14) i 2154_1br2nb	1.183	1.250	218.9E6	271.8E6	25.000	25.000
23) i 4268_1br2nb	1.183	1.250	218.9E6	271.8E6	25.000	25.000
34) i 1248_1br2nb	1.183	1.250	218.9E6	271.8E6	25.000	25.000
40) i 3262_1br2nb	1.183	1.250	218.9E6	271.8E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.463	1.617	224.0E6	270.7E6	17.635	15.201
Spiked Amount 20.000	Range 30 - 150		Recovery =	88.17%	76.00%	
3) s Decachlorobi	4.008	4.514f	197.7E6	204.1E6	19.567	17.054
Spiked Amount 20.000	Range 30 - 150		Recovery =	97.84%	85.27%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2 1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:06
Operator : pest2:mhg
Sample : L2453720-01,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:27 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4 1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:06
Operator : pest2:mhg
Sample : L2453720-01,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:27 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

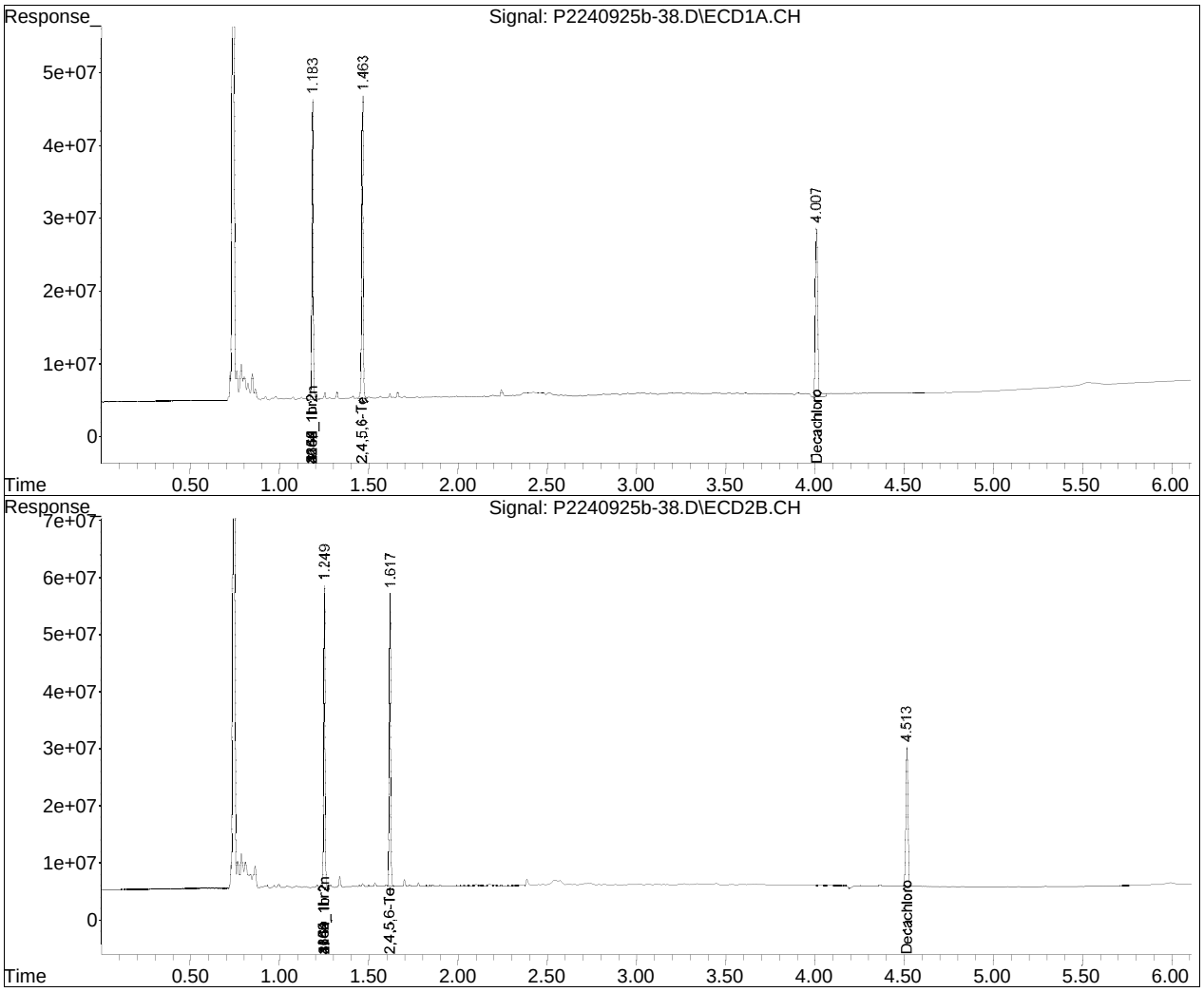
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:06
Operator : pest2:mhg
Sample : L2453720-01,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 38 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:27 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240925B\	QMethod	: P2_PCB_09_16_24_iRVT_ICA
Data File	: P2240925b-38.D	Operator	: pest2:mhg
Date Inj'd	: 9/25/2024 22:06	Instrument	: Pest 2
Sample	: L2453720-01,42,,	Quant Date	: 9/26/2024 7:53 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:15
Operator : pest2:mhg
Sample : L2453720-02,42,, p
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:30 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.250	220.7E6	274.0E6	25.000	25.000
	Standard Area 1 : #1 = 195158947				Recovery =	113.11%	
	Standard Area 1 : #2 = 287485006				Recovery =	95.32%	
14) i	2154_1br2nb	1.183	1.250	220.7E6	274.0E6	25.000	25.000
23) i	4268_1br2nb	1.183	1.250	220.7E6	274.0E6	25.000	25.000
34) i	1248_1br2nb	1.183	1.250	220.7E6	274.0E6	25.000	25.000
40) i	3262_1br2nb	1.183	1.250	220.7E6	274.0E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.463	1.617	212.9E6	253.1E6	16.619	14.094
	Spiked Amount 20.000	Range 30 - 150			Recovery =	83.09%	70.47%
3) s	Decachlorobi	4.008	4.513f	185.0E6	202.5E6	18.162M3	16.776
	Spiked Amount 20.000	Range 30 - 150			Recovery =	90.81%	83.88%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:15
Operator : pest2:mhg
Sample : L2453720-02,42,, p
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:30 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:15
Operator : pest2:mhg
Sample : L2453720-02,42,, p
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:30 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

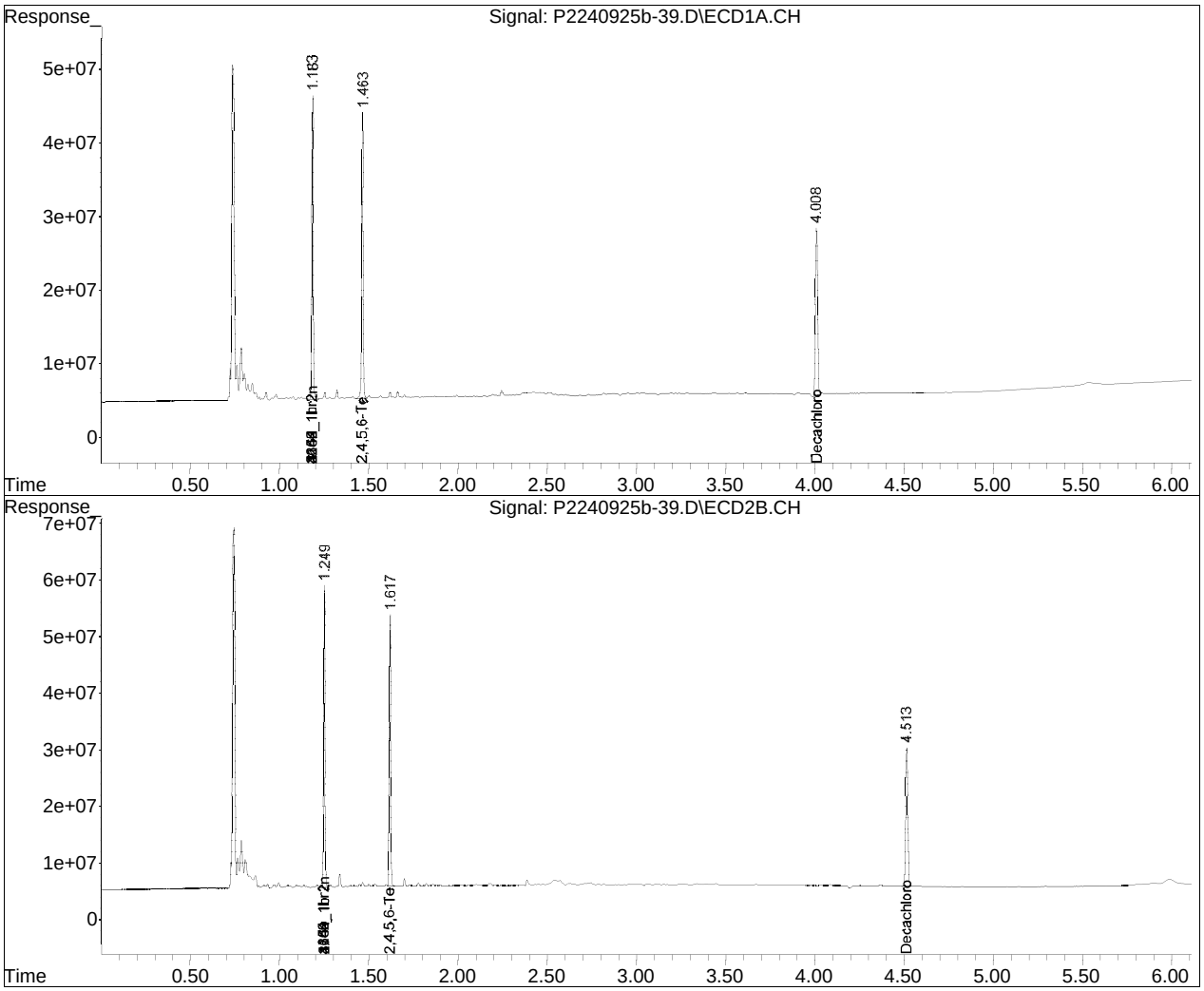
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-39.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:15
Operator : pest2:mhg
Sample : L2453720-02,42,, p
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 39 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:30 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

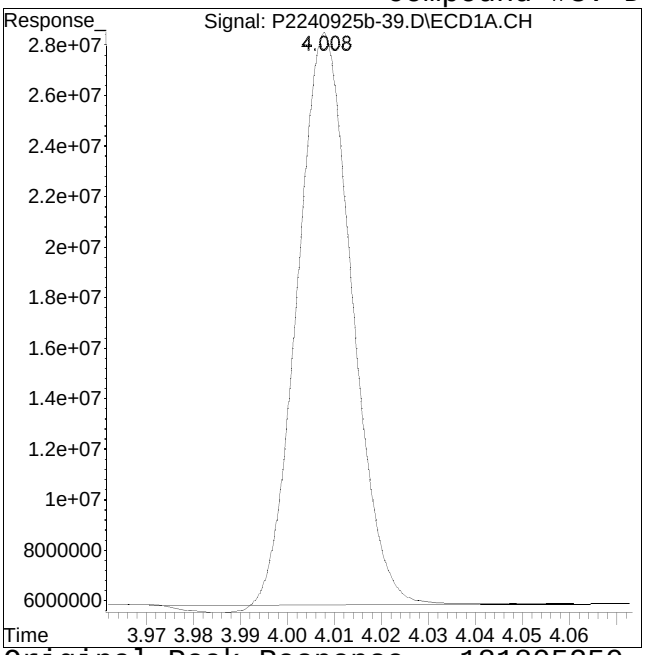
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

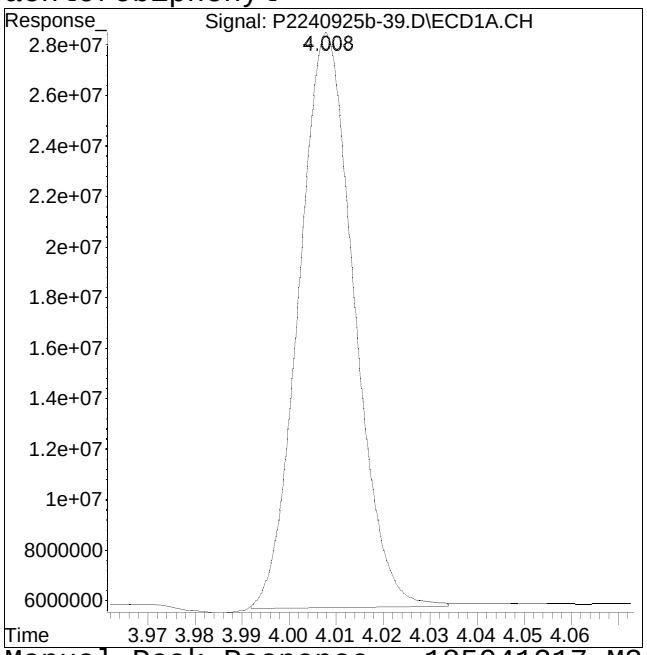


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-39.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:15 Instrument : Pest 2
Sample : L2453720-02,42,, p Quant Date : 9/26/2024 7:53 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 181805250 Manual Peak Response = 185041217 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-42.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:41
Operator : pest2:mhg
Sample : L2453720-03,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:39 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.249	224.7E6	276.6E6	25.000M3	25.000
	Standard Area 1 : #1 = 195158947				Recovery = 115.13%		
	Standard Area 1 : #2 = 287485006				Recovery = 96.20%		
14) i	2154_1br2nb	1.183	1.249	224.7E6	276.6E6	25.000M3	25.000
23) i	4268_1br2nb	1.183	1.249	224.7E6	276.6E6	25.000M3	25.000
34) i	1248_1br2nb	1.183	1.249	224.7E6	276.6E6	25.000M3	25.000
40) i	3262_1br2nb	1.183	1.249	224.7E6	276.6E6	25.000M3	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.463	1.617	229.7E6	269.0E6	17.616	14.840
	Spiked Amount 20.000	Range 30 - 150			Recovery = 88.08%		74.20%
3) s	Decachlorobi	4.009	4.514f	190.6E6	203.9E6	18.375M3	16.738
	Spiked Amount 20.000	Range 30 - 150			Recovery = 91.88%		83.69%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-42.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:41
Operator : pest2:mhg
Sample : L2453720-03,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:39 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-42.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:41
Operator : pest2:mhg
Sample : L2453720-03,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:39 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

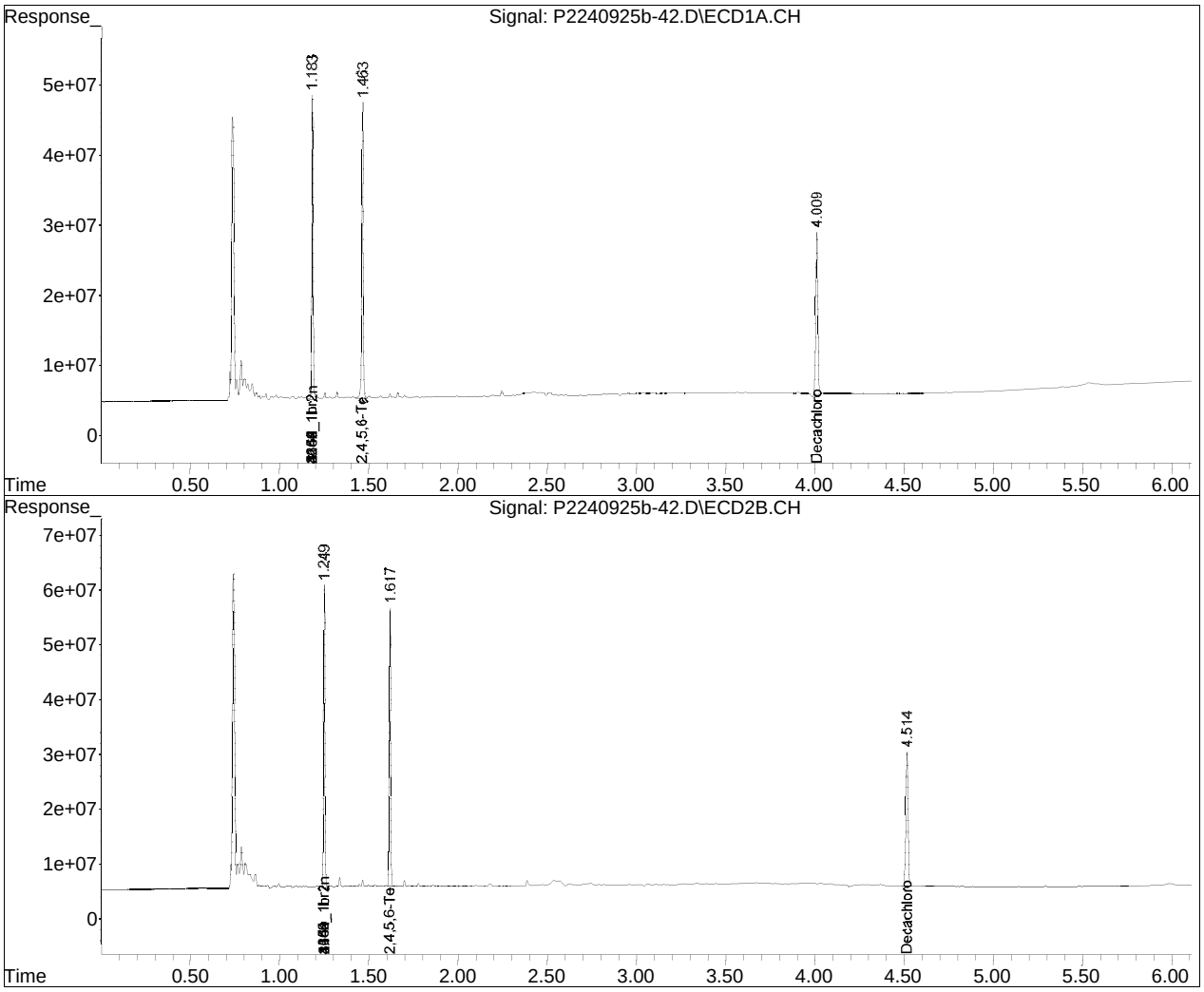
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-42.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:41
Operator : pest2:mhg
Sample : L2453720-03,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 42 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:39 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

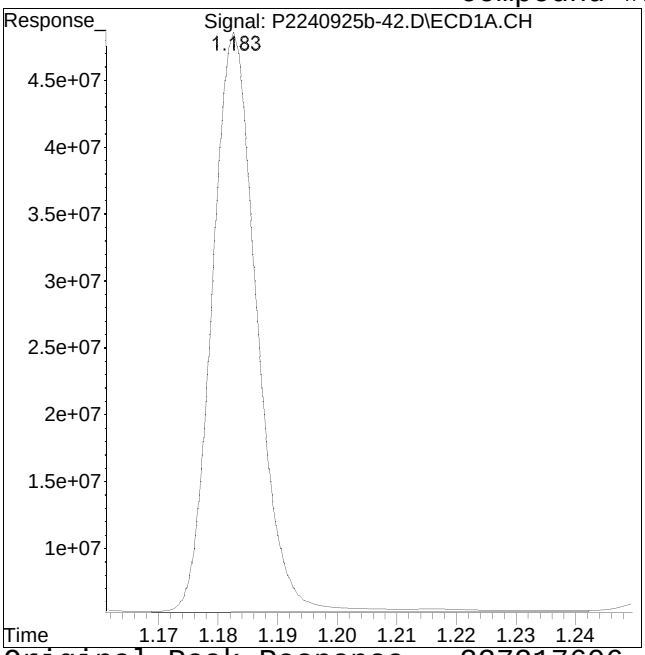
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

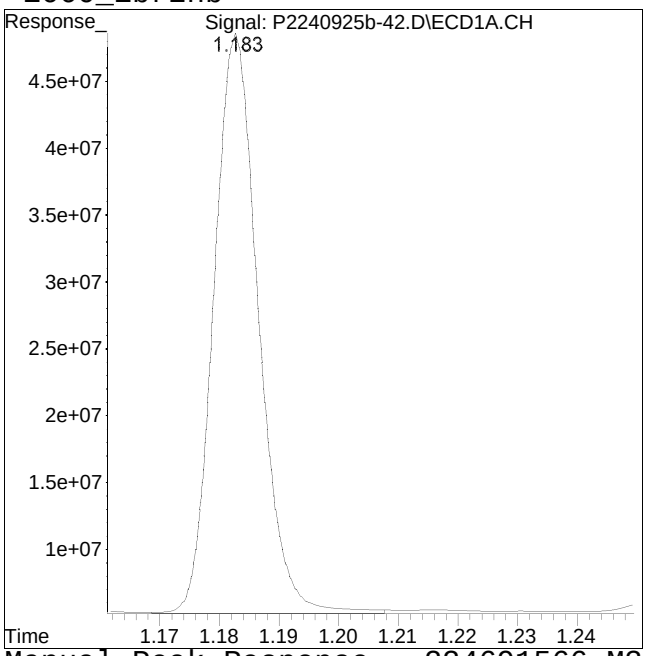


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-42.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:41 Instrument : Pest 2
Sample : L2453720-03,42,, Quant Date : 9/26/2024 7:53 am

Compound #1: 1660_1br2nb



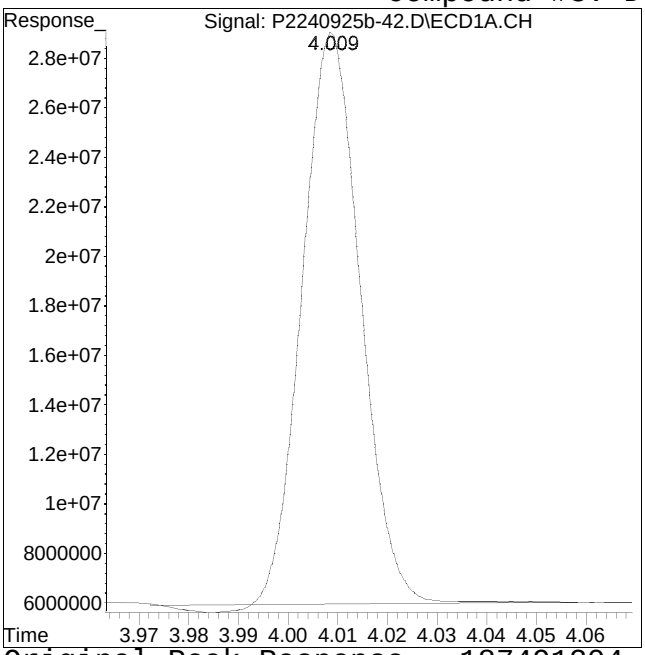


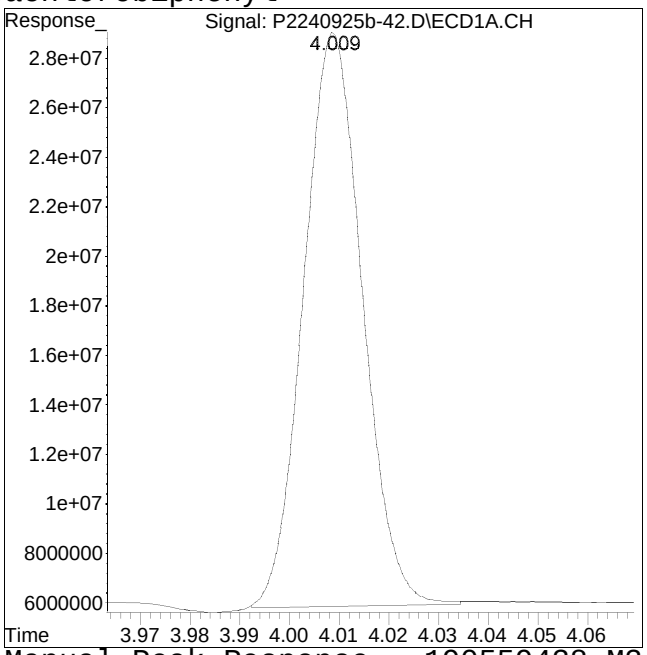
Original Peak Response = 227217606 Manual Peak Response = 224691566 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-42.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:41 Instrument : Pest 2
Sample : L2453720-03,42,, Quant Date : 9/26/2024 7:53 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 187491204 Manual Peak Response = 190559438 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-43.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:49
Operator : pest2:mhg
Sample : L2453720-04,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 43 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:42 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.249	213.1E6	265.4E6	25.000M3	25.000M3
	Standard Area 1 : #1 = 195158947				Recovery = 109.17%		
	Standard Area 1 : #2 = 287485006				Recovery = 92.32%		
14) i	2154_1br2nb	1.183	1.249	213.1E6	265.4E6	25.000M3	25.000M3
23) i	4268_1br2nb	1.183	1.249	213.1E6	265.4E6	25.000M3	25.000M3
34) i	1248_1br2nb	1.183	1.249	213.1E6	265.4E6	25.000M3	25.000M3
40) i	3262_1br2nb	1.183	1.249	213.1E6	265.4E6	25.000M3	25.000M3
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.463	1.618	219.1E6	256.4E6	17.723	14.741
	Spiked Amount 20.000	Range 30 - 150			Recovery = 88.61%		73.70%
3) s	Decachlorobi	4.008	4.514f	163.3E6	170.7E6	16.604M3	14.606
	Spiked Amount 20.000	Range 30 - 150			Recovery = 83.02%		73.03%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-43.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:49
Operator : pest2:mhg
Sample : L2453720-04,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 43 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:42 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-43.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:49
Operator : pest2:mhg
Sample : L2453720-04,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 43 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:42 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

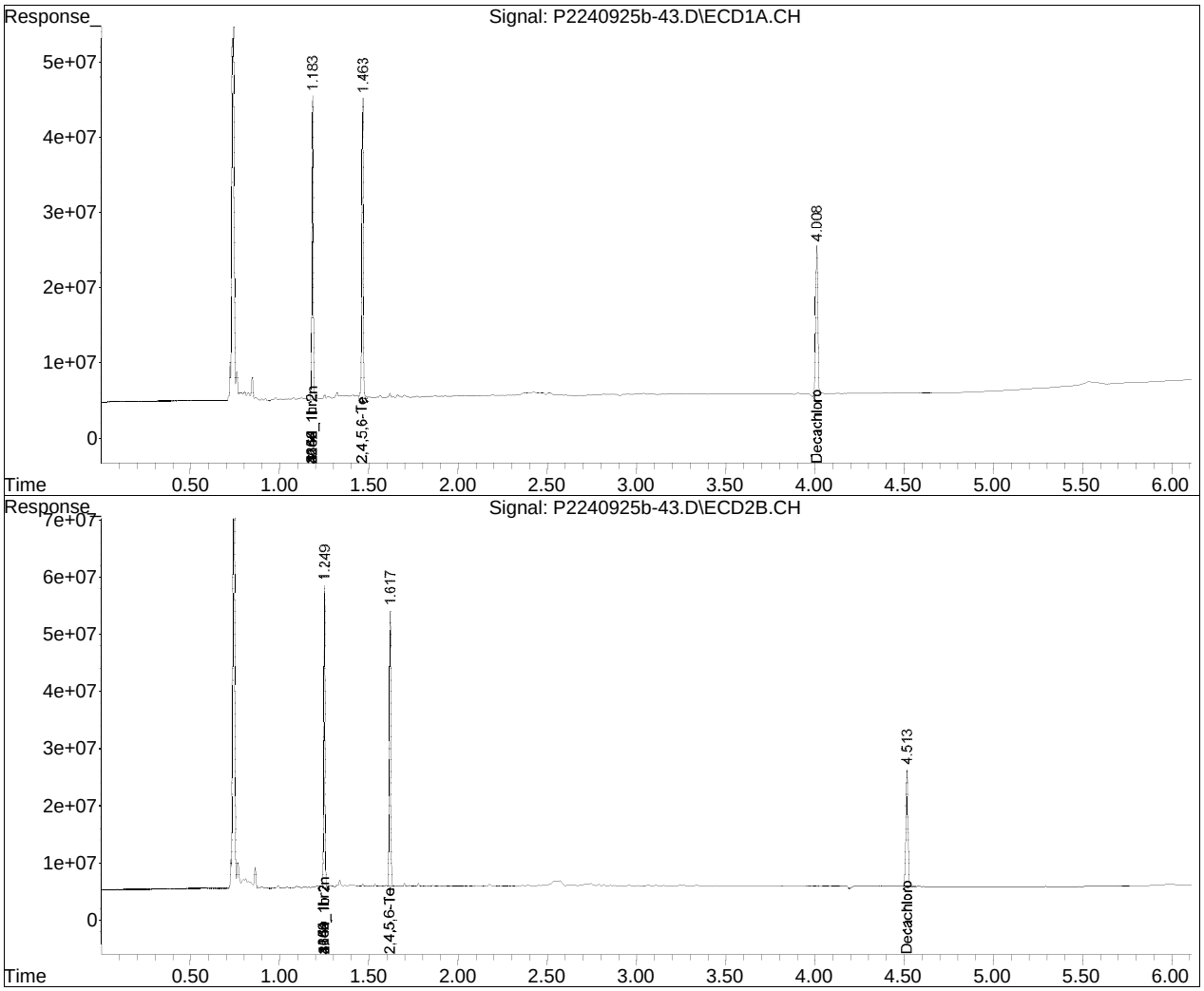
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-43.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:49
Operator : pest2:mhg
Sample : L2453720-04,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 43 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:42 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

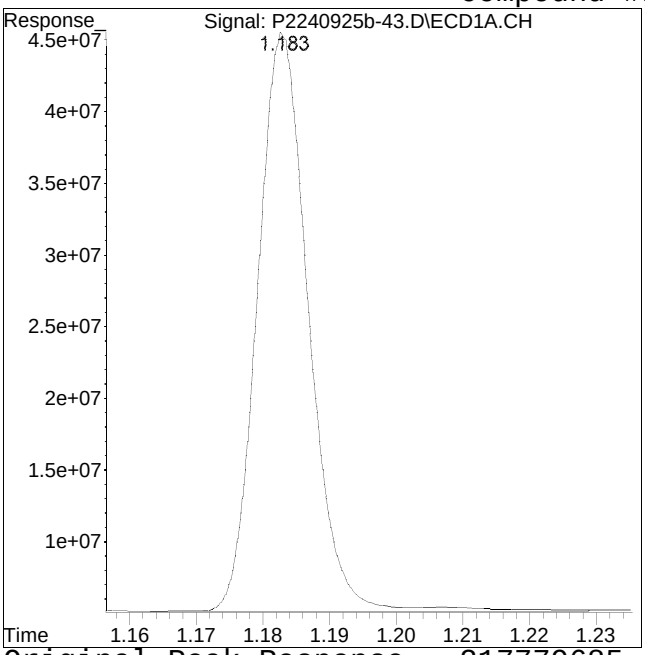
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

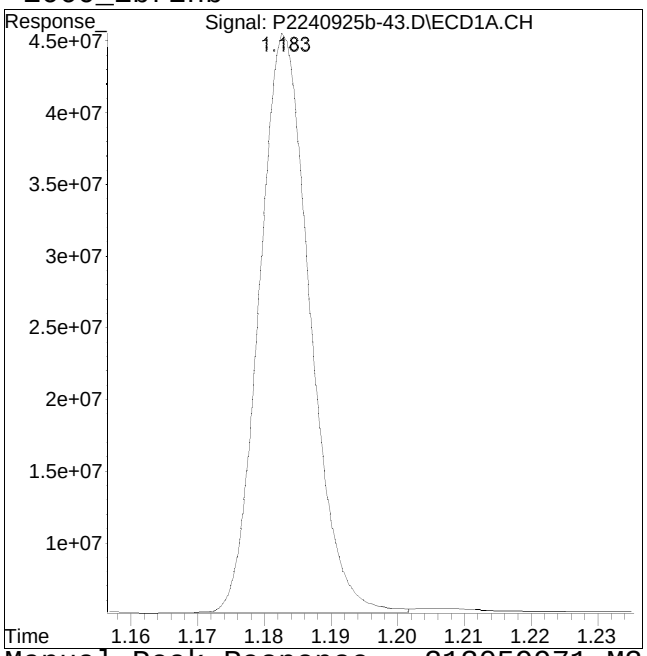


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-43.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:49 Instrument : Pest 2
Sample : L2453720-04,42,, Quant Date : 9/26/2024 7:53 am

Compound #1: 1660_1br2nb



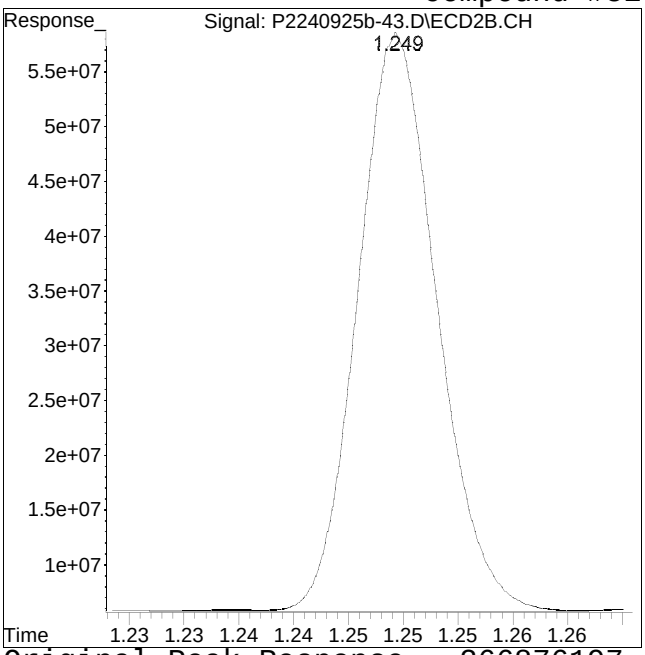


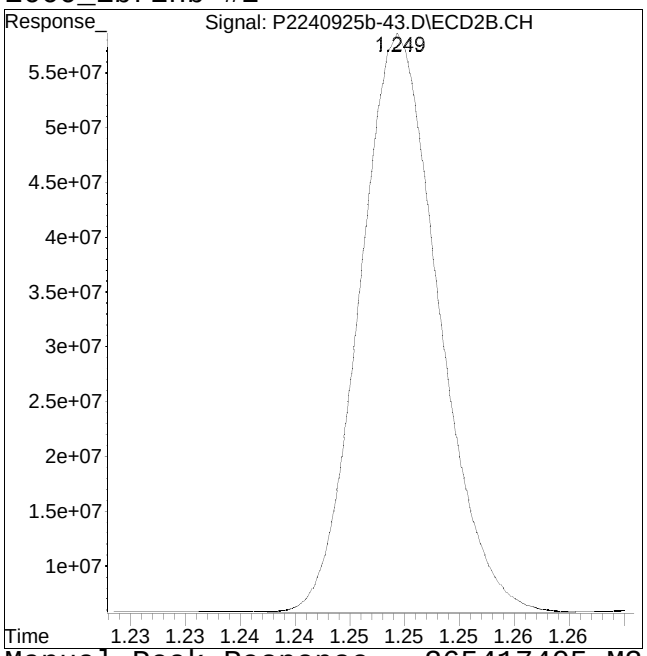
Original Peak Response = 217779685 Manual Peak Response = 213059971 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-43.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:49 Instrument : Pest 2
Sample : L2453720-04,42,, Quant Date : 9/26/2024 7:53 am

Compound #52: 1660_1br2nb #2



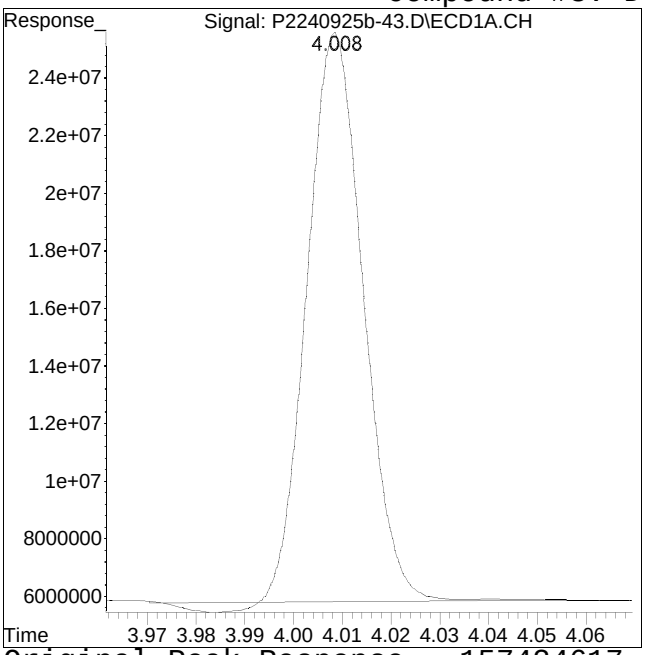


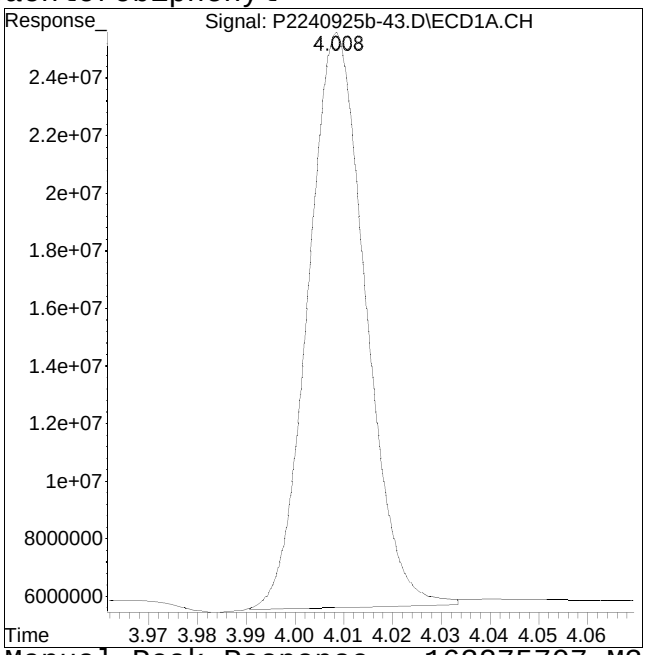
Original Peak Response = 266876197 Manual Peak Response = 265417405 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-43.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:49 Instrument : Pest 2
Sample : L2453720-04,42,, Quant Date : 9/26/2024 7:53 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 157424617 Manual Peak Response = 163275707 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:58
Operator : pest2:mhg
Sample : L2453720-06,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:45 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.184	1.250	215.3E6	271.1E6	25.000	25.000
Standard Area 1 : #1 = 195158947				Recovery =	110.31%	
Standard Area 1 : #2 = 287485006				Recovery =	94.30%	
14) i 2154_1br2nb	1.184	1.250	215.3E6	271.1E6	25.000	25.000
23) i 4268_1br2nb	1.184	1.250	215.3E6	271.1E6	25.000	25.000
34) i 1248_1br2nb	1.184	1.250	215.3E6	271.1E6	25.000	25.000
40) i 3262_1br2nb	1.184	1.250	215.3E6	271.1E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.464	1.617	217.4E6	262.0E6	17.400	14.750
Spiked Amount 20.000	Range 30 - 150		Recovery =	87.00%	73.75%	
3) s Decachlorobi	4.010	4.514f	179.5E6	195.2E6	18.067M3	16.348
Spiked Amount 20.000	Range 30 - 150		Recovery =	90.33%	81.74%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:58
Operator : pest2:mhg
Sample : L2453720-06,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:45 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:58
Operator : pest2:mhg
Sample : L2453720-06,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:45 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

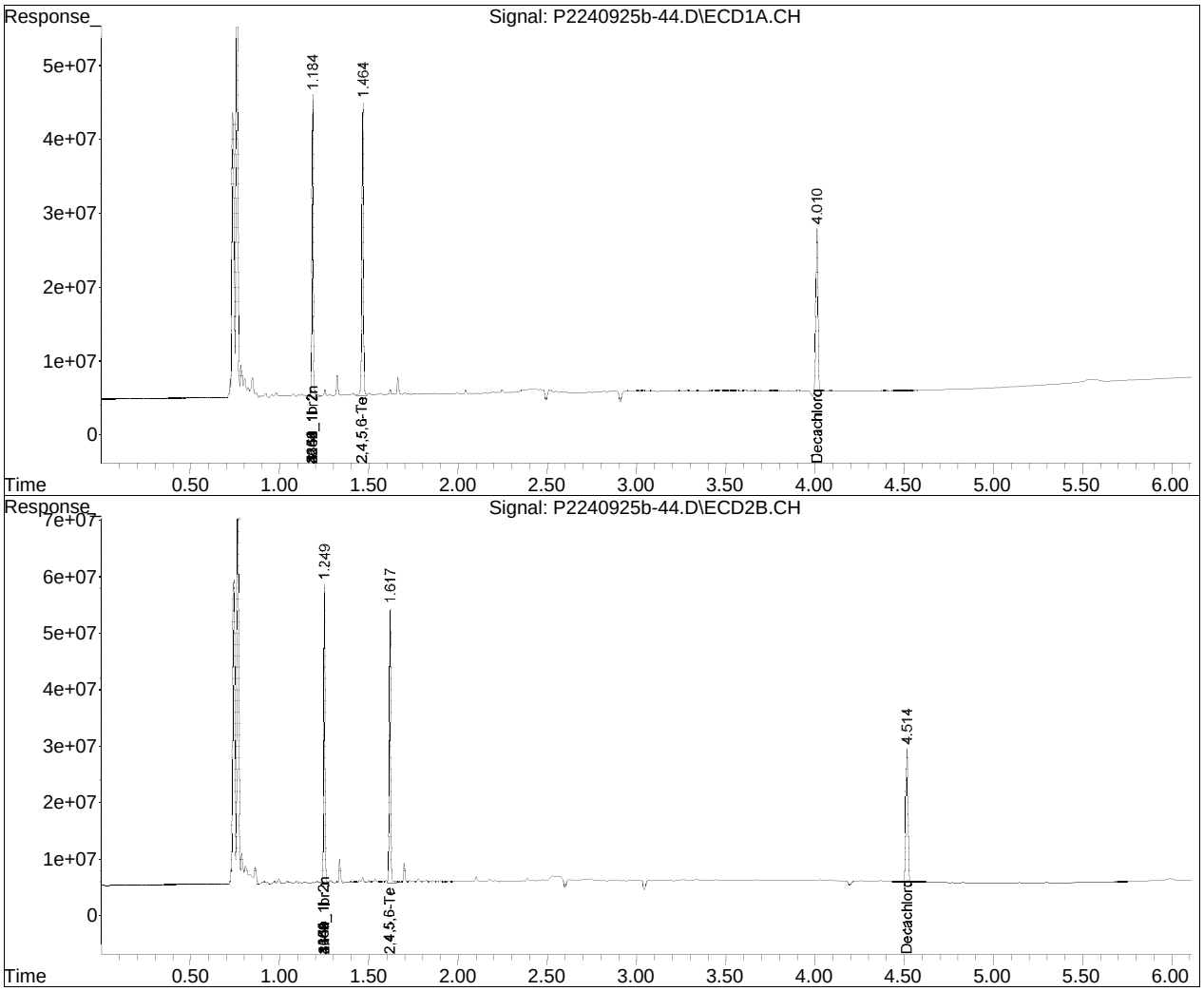
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:58
Operator : pest2:mhg
Sample : L2453720-06,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 44 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:45 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

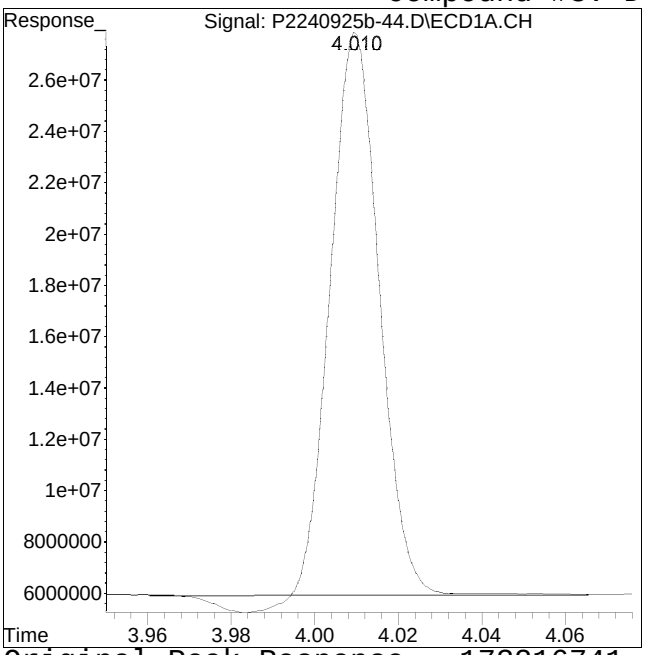
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

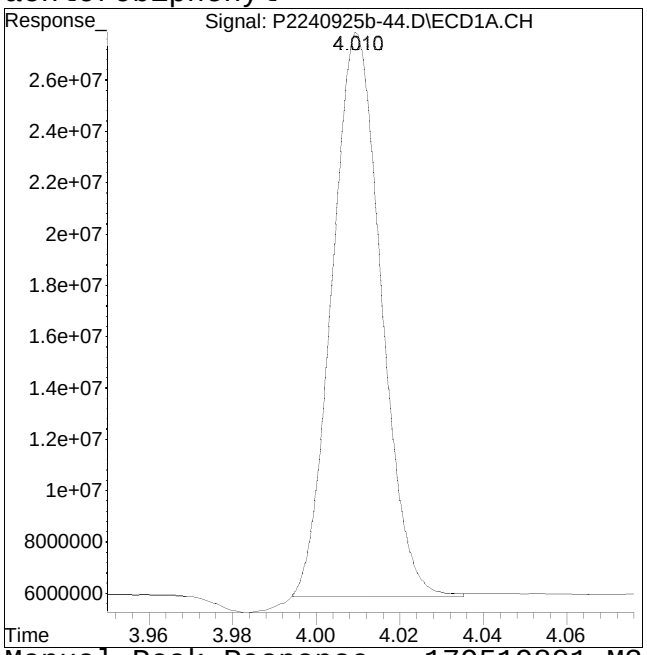


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-44.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:58 Instrument : Pest 2
Sample : L2453720-06,42,, Quant Date : 9/26/2024 7:53 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 173216741 Manual Peak Response = 179519891 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:07
Operator : pest2:mhg
Sample : L2453720-07,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 45 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:48 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.250	217.0E6	270.9E6	25.000M3	25.000
	Standard Area 1 : #1 = 195158947				Recovery = 111.19%		
	Standard Area 1 : #2 = 287485006				Recovery = 94.23%		
14) i	2154_1br2nb	1.184	1.250	217.0E6	270.9E6	25.000M3	25.000
23) i	4268_1br2nb	1.184	1.250	217.0E6	270.9E6	25.000M3	25.000
34) i	1248_1br2nb	1.184	1.250	217.0E6	270.9E6	25.000M3	25.000
40) i	3262_1br2nb	1.184	1.250	217.0E6	270.9E6	25.000M3	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.617	237.9E6	269.2E6	18.891	15.167
	Spiked Amount 20.000	Range 30 - 150			Recovery = 94.45%		75.83%
3) s	Decachlorobi	4.010	4.514f	197.5E6	197.2E6	19.719	16.530
	Spiked Amount 20.000	Range 30 - 150			Recovery = 98.60%		82.65%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:07
Operator : pest2:mhg
Sample : L2453720-07,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 45 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:48 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:07
Operator : pest2:mhg
Sample : L2453720-07,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 45 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:48 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

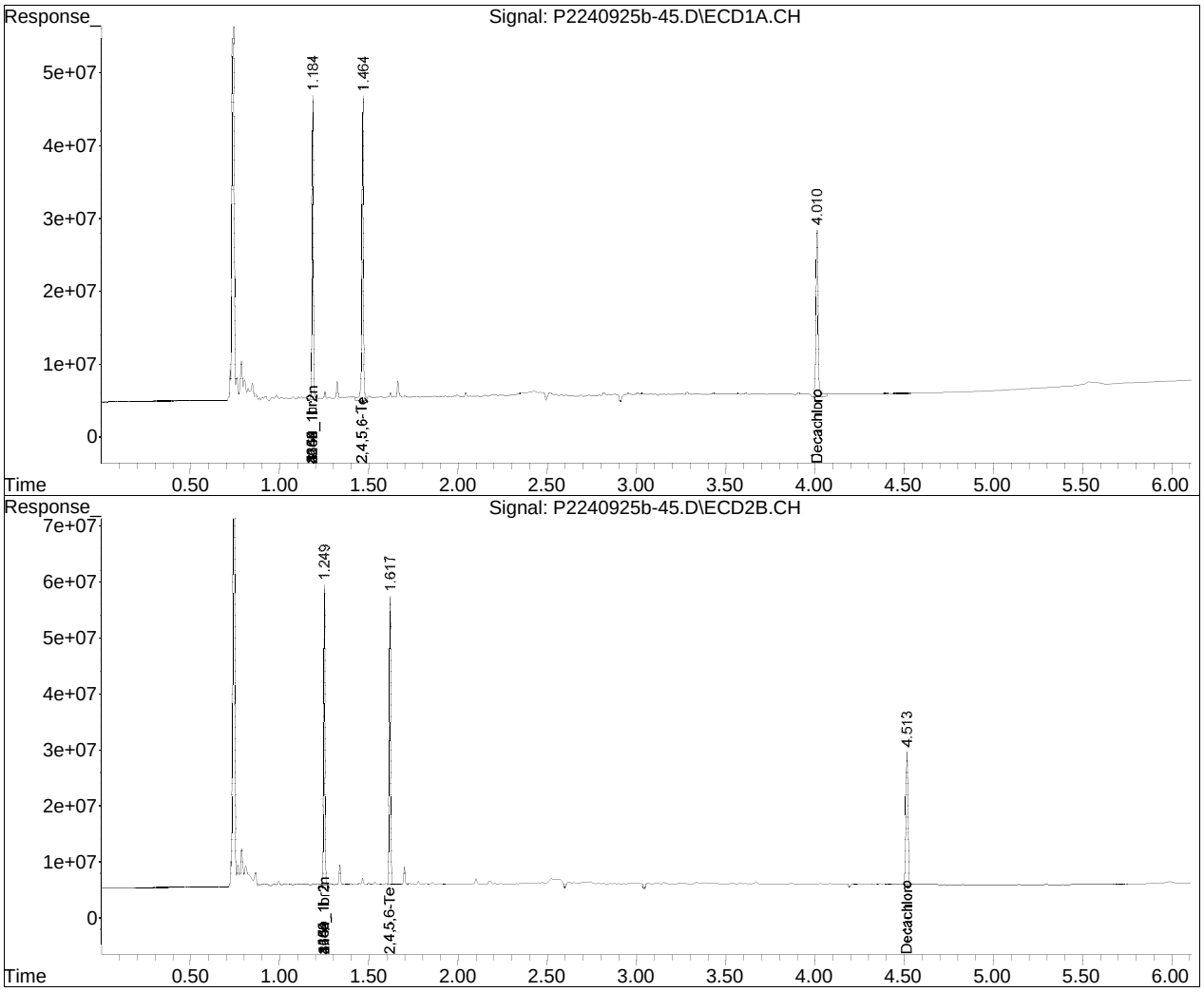
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:07
Operator : pest2:mhg
Sample : L2453720-07,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 45 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:48 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

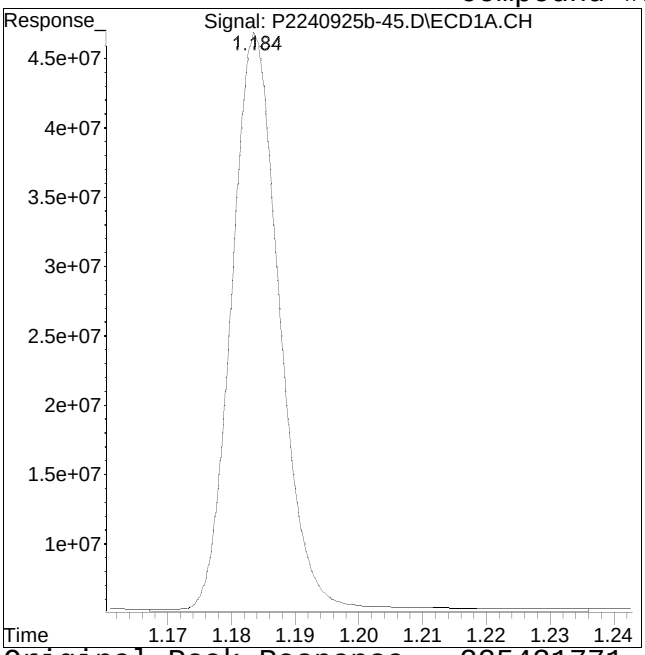
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

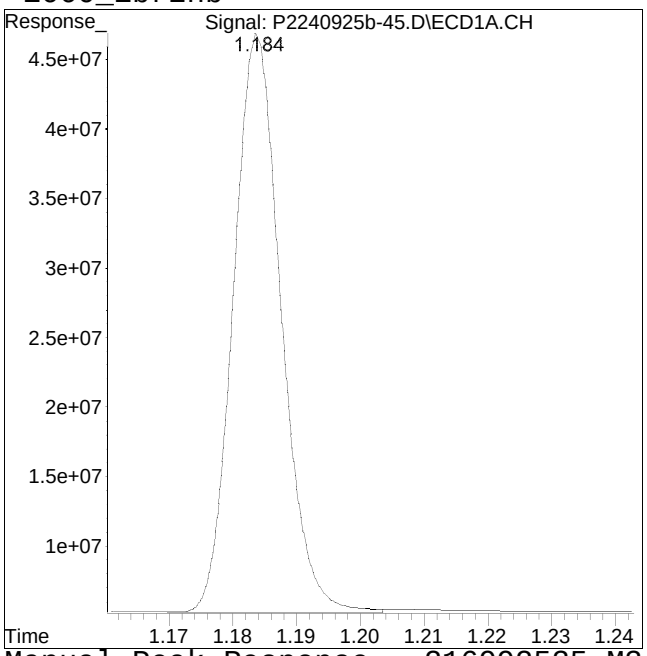


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-45.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 23:07 Instrument : Pest 2
Sample : L2453720-07,42,, Quant Date : 9/26/2024 7:53 am

Compound #1: 1660_1br2nb





Original Peak Response = 225431771 Manual Peak Response = 216992535 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:16
Operator : pest2:mhg
Sample : L2453720-08,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 46 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:51 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.250	213.4E6	265.3E6	25.000M3	25.000
	Standard Area 1 : #1 = 195158947				Recovery = 109.33%		
	Standard Area 1 : #2 = 287485006				Recovery = 92.27%		
14) i	2154_1br2nb	1.183	1.250	213.4E6	265.3E6	25.000M3	25.000
23) i	4268_1br2nb	1.183	1.250	213.4E6	265.3E6	25.000M3	25.000
34) i	1248_1br2nb	1.183	1.250	213.4E6	265.3E6	25.000M3	25.000
40) i	3262_1br2nb	1.183	1.250	213.4E6	265.3E6	25.000M3	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.618	211.5E6	254.3E6	17.083	14.627
	Spiked Amount 20.000	Range 30 - 150			Recovery = 85.41%		73.14%
3) s	Decachlorobi	4.008	4.513f	171.2E6	196.7E6	17.389M3	16.835M3
	Spiked Amount 20.000	Range 30 - 150			Recovery = 86.94%		84.17%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:16
Operator : pest2:mhg
Sample : L2453720-08,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 46 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:51 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:16
Operator : pest2:mhg
Sample : L2453720-08,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 46 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:51 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

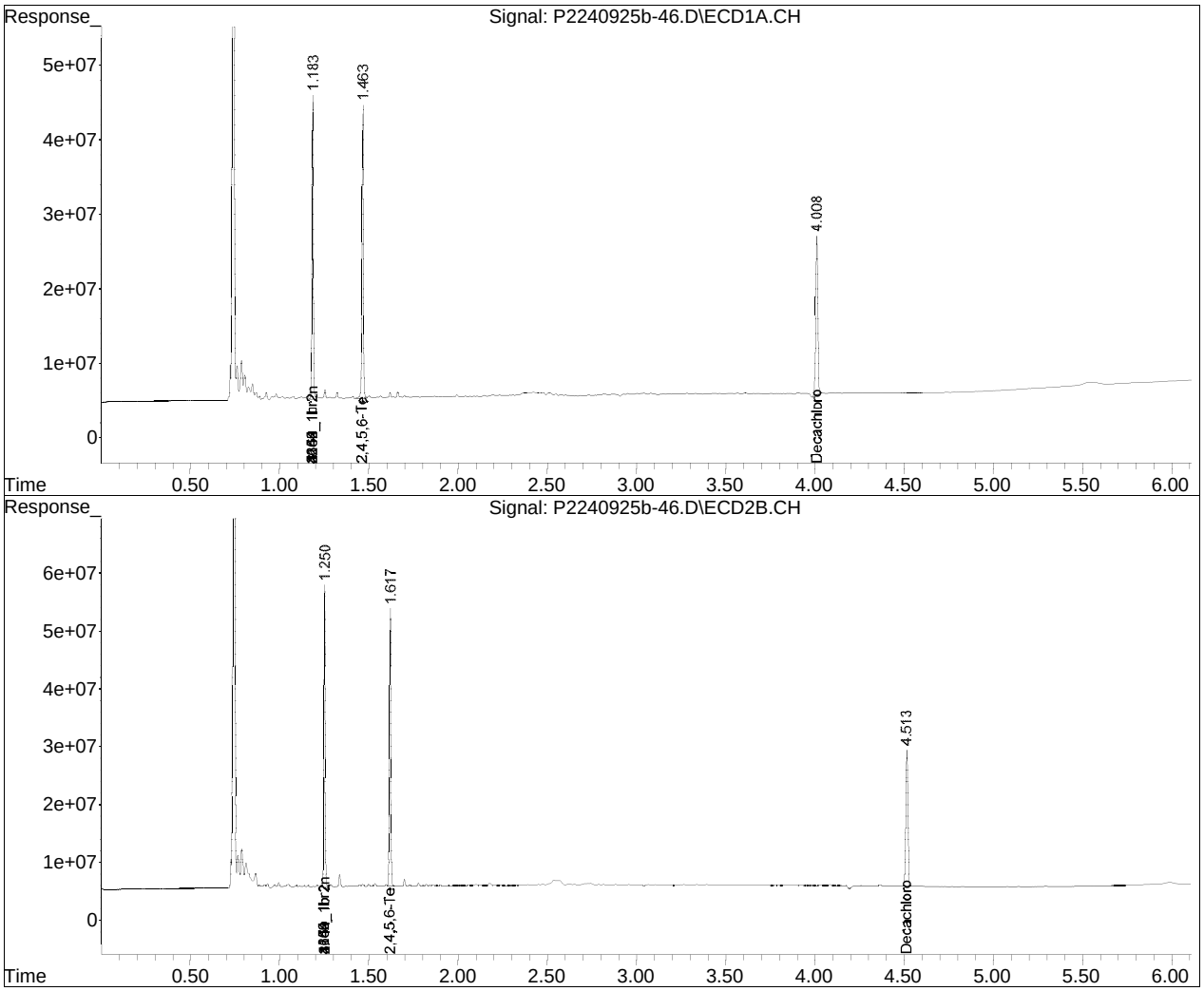
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:16
Operator : pest2:mhg
Sample : L2453720-08,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 46 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:51 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

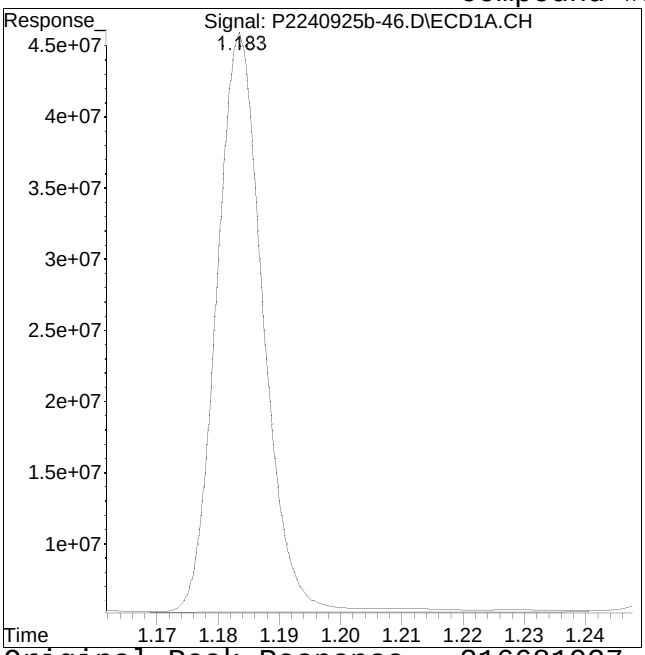
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

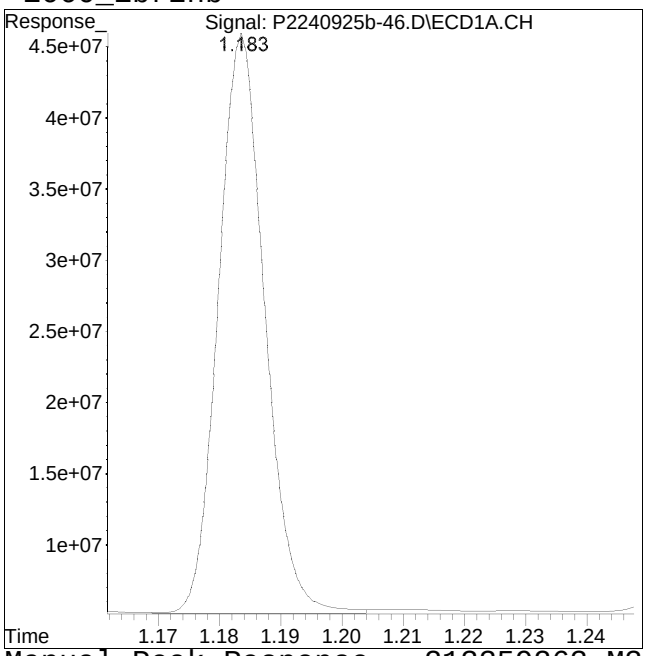


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-46.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 23:16 Instrument : Pest 2
Sample : L2453720-08,42,, Quant Date : 9/26/2024 7:53 am

Compound #1: 1660_1br2nb



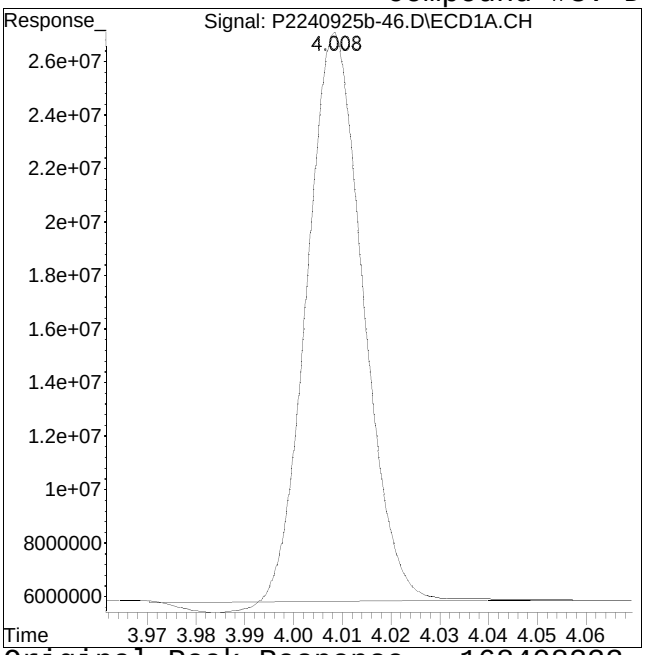


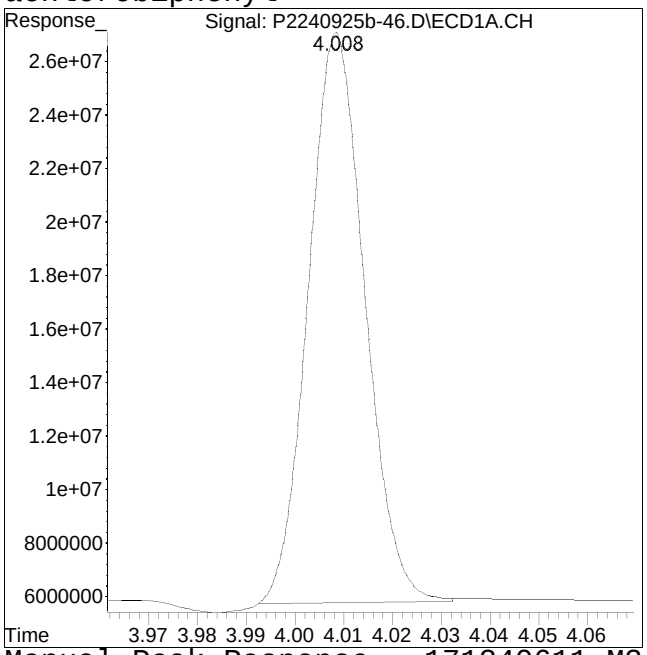
Original Peak Response = 216681927 Manual Peak Response = 213359263 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-46.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 23:16 Instrument : Pest 2
Sample : L2453720-08,42,, Quant Date : 9/26/2024 7:53 am

Compound #3: Decachlorobiphenyl



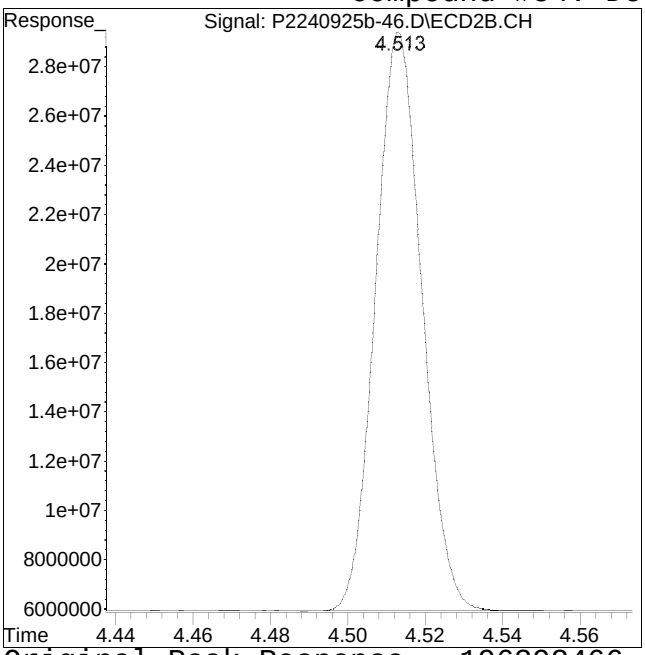


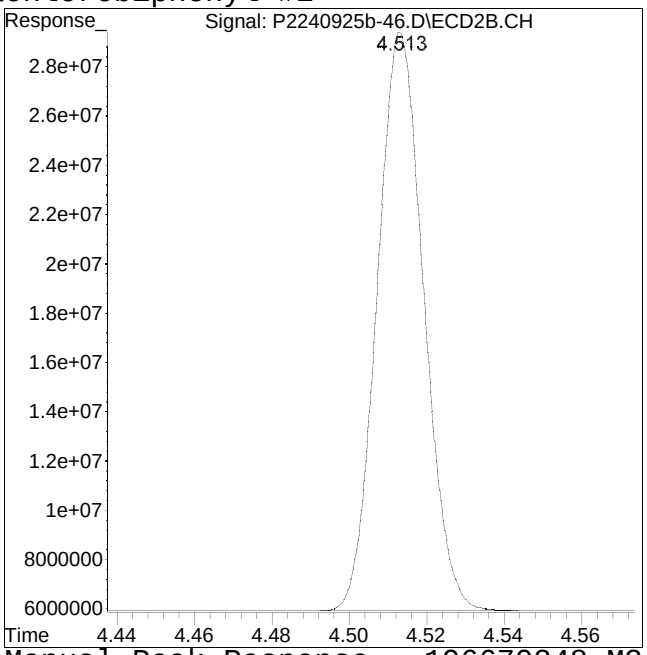
Original Peak Response = 168408333 Manual Peak Response = 171240611 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-46.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 23:16 Instrument : Pest 2
Sample : L2453720-08,42,, Quant Date : 9/26/2024 7:53 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 196392466 Manual Peak Response = 196670248 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:24
Operator : pest2:mhg
Sample : L2453720-09,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 47 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:54 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.184	1.250	215.0E6	269.2E6	25.000	25.000
Standard Area 1 : #1 = 195158947				Recovery =	110.14%	
Standard Area 1 : #2 = 287485006				Recovery =	93.64%	
14) i 2154_1br2nb	1.184	1.250	215.0E6	269.2E6	25.000	25.000
23) i 4268_1br2nb	1.184	1.250	215.0E6	269.2E6	25.000	25.000
34) i 1248_1br2nb	1.184	1.250	215.0E6	269.2E6	25.000	25.000
40) i 3262_1br2nb	1.184	1.250	215.0E6	269.2E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.464	1.617	206.2E6	252.3E6	16.531	14.303
Spiked Amount 20.000	Range 30 - 150		Recovery =		82.65%	71.52%
3) s Decachlorobi	4.009	4.514f	151.1E6	171.7E6	15.229M3	14.479M3
Spiked Amount 20.000	Range 30 - 150		Recovery =		76.14%	72.39%
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D.	N.D.
8) l1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D.	N.D.
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:24
Operator : pest2:mhg
Sample : L2453720-09,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 47 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:54 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D.	N.D.
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D.	N.D.
28) l6 1242-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D.	N.D.
39) l7 1248-5	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:24
Operator : pest2:mhg
Sample : L2453720-09,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 47 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:54 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5 1232-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

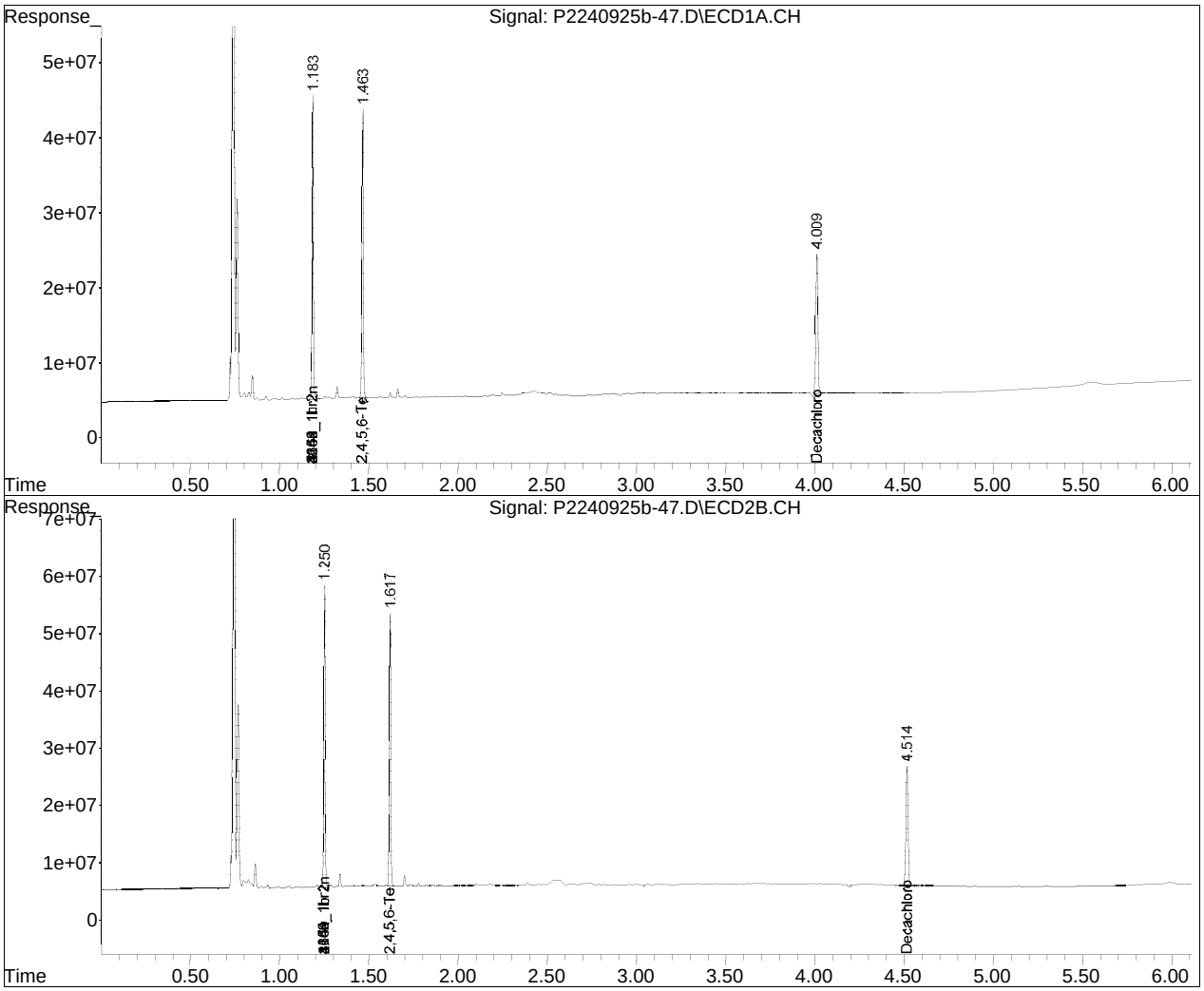
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 23:24
Operator : pest2:mhg
Sample : L2453720-09,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 47 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:54 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

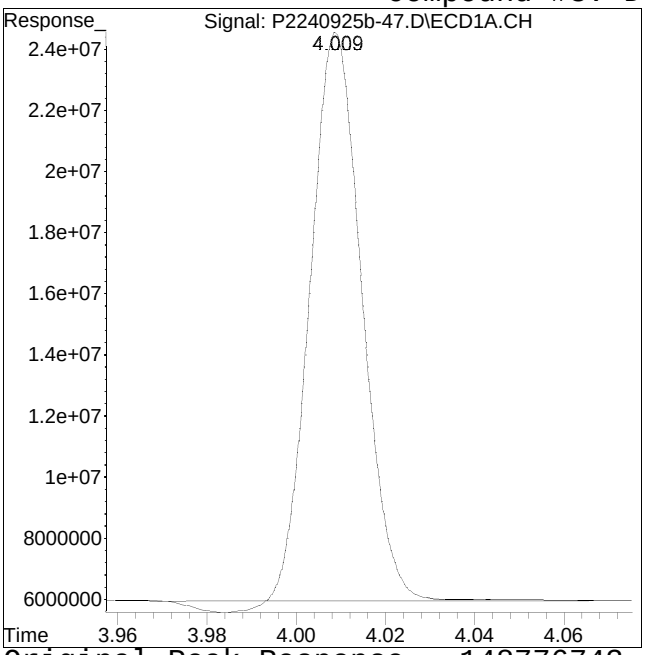
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

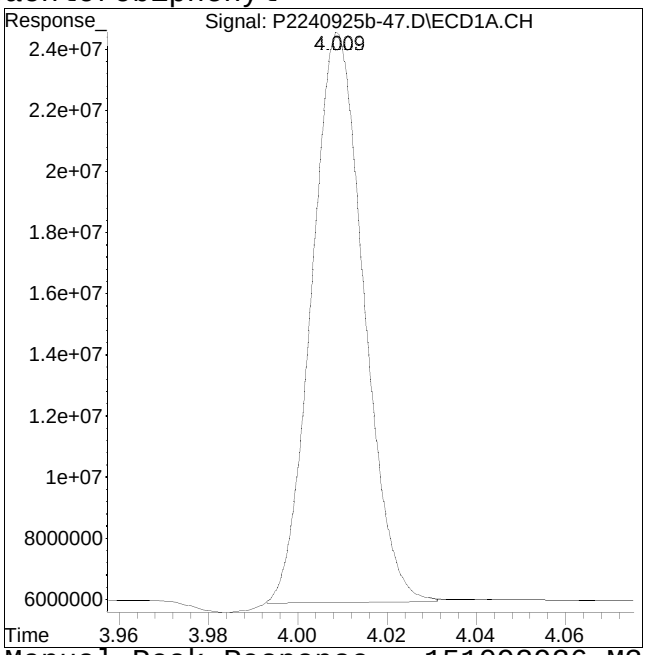


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-47.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 23:24 Instrument : Pest 2
Sample : L2453720-09,42,, Quant Date : 9/26/2024 7:53 am

Compound #3: Decachlorobiphenyl



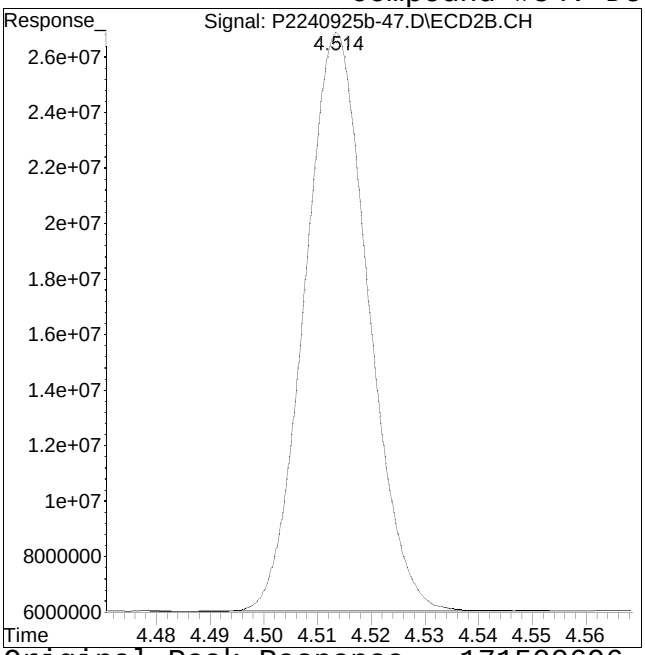


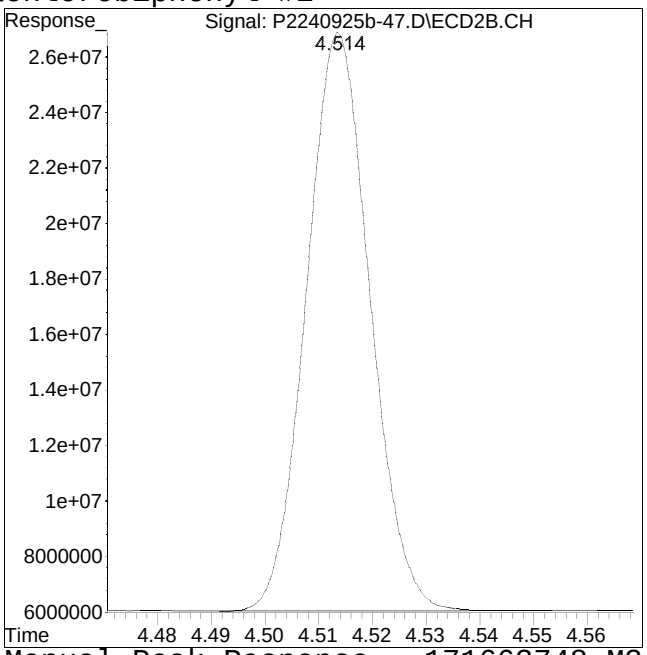
Original Peak Response = 148776743 Manual Peak Response = 151092936 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-47.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 23:24 Instrument : Pest 2
Sample : L2453720-09,42,, Quant Date : 9/26/2024 7:53 am

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 171500696 Manual Peak Response = 171663748 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D

6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra	1.490	1.424	1.460	1.428	1.400	1.446	1.417	1.478	1.494	1.469	1.451	2.24
3)	s	Decachlorobip	1.362	1.224	1.181	1.174	1.164	1.157	1.107	1.080	1.054	1.035	1.154	8.22
4)	l1	1016-1	0.029	0.030	0.029	0.028	0.027	0.028	0.026	0.026	0.025	0.023	0.027	7.47
5)	l1	1016-2	0.064	0.063	0.064	0.064	0.061	0.059	0.056	0.055	0.053	0.050	0.059	8.57
6)	l1	1016-3	0.126	0.112	0.123	0.118	0.113	0.118	0.113	0.116	0.116	0.112	0.117	3.99
7)	l1	1016-4	0.052	0.047	0.055	0.051	0.049	0.049	0.046	0.049	0.048	0.046	0.049	5.95
8)	l1	1016-5	0.063	0.048	0.062	0.057	0.056	0.056	0.051	0.051	0.050	0.048	0.054	9.85
9)	l2	1260-1	0.083	0.079	0.077	0.075	0.074	0.076	0.072	0.071	0.070	0.069	0.075	5.92
10)	l2	1260-2	0.123	0.119	0.117	0.114	0.114	0.116	0.111	0.108	0.107	0.105	0.113	4.92
11)	l2	1260-3	0.068	0.067	0.069	0.069	0.070	0.071	0.068	0.069	0.068	0.067	0.069	1.76
12)	l2	1260-4	0.159	0.156	0.150	0.148	0.148	0.149	0.147	0.150	0.149	0.149	0.151	2.68
13)	l2	1260-5	0.118	0.110	0.110	0.109	0.105	0.107	0.104	0.104	0.103	0.104	0.108	4.14
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.015			0.015	0.00
16)	l3	1221-2								0.009			0.009	0.00
17)	l3	1221-3								0.037			0.037	0.00
18)	l4	1254-1								0.052			0.052	0.00
19)	l4	1254-2								0.093			0.093	0.00
20)	l4	1254-3								0.101			0.101	0.00
21)	l4	1254-4								0.071			0.071	0.00
22)	l4	1254-5								0.099			0.099	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.046			0.046	0.00
26)	l6	1242-3								0.096			0.096	0.00
27)	l6	1242-4								0.040			0.040	0.00
28)	l6	1242-5								0.032			0.032	0.00
29)	l9	1268-1								0.209			0.209	0.00
30)	l9	1268-2								0.189			0.189	0.00
31)	l9	1268-3								0.154			0.154	0.00
32)	l9	1268-4								0.067			0.067	0.00
33)	l9	1268-5								0.467			0.467	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.060			0.060	0.00
36)	l7	1248-2								0.078			0.078	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D

6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
37) l7	1248-3								0.070			0.070	0.00
38) l7	1248-4								0.060			0.060	0.00
39) l7	1248-5								0.056			0.056	0.00
40) i	3262_1br2nb	----------ISTD----------											
41) l5	1232-1								0.029			0.029	0.00
42) l5	1232-2								0.027			0.027	0.00
43) l5	1232-3								0.055			0.055	0.00
44) l5	1232-4								0.023			0.023	0.00
45) l5	1232-5								0.017			0.017	0.00
46) l8	1262-1								0.083			0.083	0.00
47) l8	1262-2								0.105			0.105	0.00
48) l8	1262-3								0.091			0.091	0.00
49) l8	1262-4								0.185			0.185	0.00
50) l8	1262-5								0.059			0.059	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Signal #2 Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra	1.800	1.723	1.775	1.642	1.617	1.647	1.569	1.541	1.557	1.512	1.638	6.08
3)	s	Decachlorobip	1.382	1.282	1.205	1.148	1.113	1.087	1.044	0.934	0.918	0.900	1.101	14.52
4)	l1	1016-1	0.036	0.034	0.033	0.032	0.030	0.030	0.030	0.027	0.026	0.024	0.030	12.95
5)	l1	1016-2	0.069	0.069	0.072	0.069	0.070	0.070	0.067	0.059	0.056	0.052	0.065	10.57
6)	l1	1016-3	0.153	0.145	0.143	0.137	0.131	0.132	0.128	0.118	0.114	0.109	0.131	10.79
7)	l1	1016-4	0.063	0.057	0.058	0.055	0.053	0.054	0.052	0.047	0.045	0.043	0.053	11.94
8)	l1	1016-5	0.049	0.046	0.045	0.042	0.042	0.043	0.044	0.039	0.036	0.035	0.042	10.65
9)	l2	1260-1	0.094	0.093	0.088	0.088	0.083	0.090	0.078	0.072	0.069	0.066	0.082	12.52
10)	l2	1260-2	0.113	0.111	0.105	0.101	0.097	0.105	0.093	0.085	0.082	0.079	0.097	12.54
11)	l2	1260-3	0.094	0.090	0.084	0.081	0.080	0.084	0.078	0.069	0.068	0.065	0.079	12.09
12)	l2	1260-4	0.174	0.171	0.165	0.162	0.158	0.160	0.151	0.139	0.138	0.135	0.155	8.92
13)	l2	1260-5	0.121	0.127	0.118	0.114	0.112	0.114	0.112	0.097	0.096	0.094	0.111	10.22
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.017			0.017	0.00
16)	l3	1221-2								0.011			0.011	0.00
17)	l3	1221-3								0.040			0.040	0.00
18)	l4	1254-1								0.062			0.062	0.00
19)	l4	1254-2								0.073			0.073	0.00
20)	l4	1254-3								0.109			0.109	0.00
21)	l4	1254-4								0.073			0.073	0.00
22)	l4	1254-5								0.101			0.101	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.048			0.048	0.00
26)	l6	1242-3								0.095			0.095	0.00
27)	l6	1242-4								0.039			0.039	0.00
28)	l6	1242-5								0.031			0.031	0.00
29)	l9	1268-1								0.190			0.190	0.00
30)	l9	1268-2								0.169			0.169	0.00
31)	l9	1268-3								0.141			0.141	0.00
32)	l9	1268-4								0.062			0.062	0.00
33)	l9	1268-5								0.399			0.399	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.062			0.062	0.00
36)	l7	1248-2								0.043			0.043	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL21500**
Calibration dates	**: 09/16/24 15:29 09/16/24 17:41**		

Signal #2 Calibration Files

1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
37) l7	1248-3								0.053			0.053	0.00
38) l7	1248-4								0.060			0.060	0.00
39) l7	1248-5								0.067			0.067	0.00
40) i	3262_1br2nb	----------ISTD----------											
41) l5	1232-1								0.030			0.030	0.00
42) l5	1232-2								0.031			0.031	0.00
43) l5	1232-3								0.060			0.060	0.00
44) l5	1232-4								0.024			0.024	0.00
45) l5	1232-5								0.018			0.018	0.00
46) l8	1262-1								0.073			0.073	0.00
47) l8	1262-2								0.101			0.101	0.00
48) l8	1262-3								0.091			0.091	0.00
49) l8	1262-4								0.174			0.174	0.00
50) l8	1262-5								0.062			0.062	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------											
2)	s	2,4,5,6-Tetra...	1.490	1.424	1.460	1.428	1.400	1.446	1.417	1.478	1.494	1.469	1.451	2.24
3)	s	Decachlorobip...	1.362	1.224	1.181	1.174	1.164	1.157	1.107	1.080	1.054	1.035	1.154	8.22
4)	l1	1016-1	0.029	0.030	0.029	0.028	0.027	0.028	0.026	0.026	0.025	0.023	0.027	7.47
5)	l1	1016-2	0.064	0.063	0.064	0.064	0.061	0.059	0.056	0.055	0.053	0.050	0.059	8.57
6)	l1	1016-3	0.126	0.112	0.123	0.118	0.113	0.118	0.113	0.116	0.116	0.112	0.117	3.99
7)	l1	1016-4	0.052	0.047	0.055	0.051	0.049	0.049	0.046	0.049	0.048	0.046	0.049	5.95
8)	l1	1016-5	0.063	0.048	0.062	0.057	0.056	0.056	0.051	0.051	0.050	0.048	0.054	9.85
9)	l2	1260-1	0.083	0.079	0.077	0.075	0.074	0.076	0.072	0.071	0.070	0.069	0.075	5.92
10)	l2	1260-2	0.123	0.119	0.117	0.114	0.114	0.116	0.111	0.108	0.107	0.105	0.113	4.92
11)	l2	1260-3	0.068	0.067	0.069	0.069	0.070	0.071	0.068	0.069	0.068	0.067	0.069	1.76
12)	l2	1260-4	0.159	0.156	0.150	0.148	0.148	0.149	0.147	0.150	0.149	0.149	0.151	2.68
13)	l2	1260-5	0.118	0.110	0.110	0.109	0.105	0.107	0.104	0.104	0.103	0.104	0.108	4.14
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.015			0.015	0.00
16)	l3	1221-2								0.009			0.009	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
17)	l3	1221-3								0.037			0.037	0.00
18)	l4	1254-1								0.052			0.052	0.00
19)	l4	1254-2								0.093			0.093	0.00
20)	l4	1254-3								0.101			0.101	0.00
21)	l4	1254-4								0.071			0.071	0.00
22)	l4	1254-5								0.099			0.099	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.046			0.046	0.00
26)	l6	1242-3								0.096			0.096	0.00
27)	l6	1242-4								0.040			0.040	0.00
28)	l6	1242-5								0.032			0.032	0.00
29)	l9	1268-1								0.209			0.209	0.00
30)	l9	1268-2								0.189			0.189	0.00
31)	l9	1268-3								0.154			0.154	0.00
32)	l9	1268-4								0.067			0.067	0.00
33)	l9	1268-5								0.467			0.467	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.060			0.060	0.00
36)	l7	1248-2								0.078			0.078	0.00
37)	l7	1248-3								0.070			0.070	0.00
38)	l7	1248-4								0.060			0.060	0.00
39)	l7	1248-5								0.056			0.056	0.00
40)	i	3262_1br2nb	----------ISTD----------											
41)	l5	1232-1								0.029			0.029	0.00
42)	l5	1232-2								0.027			0.027	0.00
43)	l5	1232-3								0.055			0.055	0.00
44)	l5	1232-4								0.023			0.023	0.00
45)	l5	1232-5								0.017			0.017	0.00
46)	l8	1262-1								0.083			0.083	0.00
47)	l8	1262-2								0.105			0.105	0.00
48)	l8	1262-3								0.091			0.091	0.00
49)	l8	1262-4								0.185			0.185	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
50) l8	1262-5								0.059			0.059	0.00

Signal #2 Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------											
2) s	2,4,5,6-Tetra...	1.800	1.723	1.775	1.642	1.617	1.647	1.569	1.541	1.557	1.512	1.638	6.08
3) s	Decachlorobip...	1.382	1.282	1.205	1.148	1.113	1.087	1.044	0.934	0.918	0.900	1.101	14.52
4) l1	1016-1	0.036	0.034	0.033	0.032	0.030	0.030	0.030	0.027	0.026	0.024	0.030	12.95
5) l1	1016-2	0.069	0.069	0.072	0.069	0.070	0.070	0.067	0.059	0.056	0.052	0.065	10.57
6) l1	1016-3	0.153	0.145	0.143	0.137	0.131	0.132	0.128	0.118	0.114	0.109	0.131	10.79
7) l1	1016-4	0.063	0.057	0.058	0.055	0.053	0.054	0.052	0.047	0.045	0.043	0.053	11.94
8) l1	1016-5	0.049	0.046	0.045	0.042	0.042	0.043	0.044	0.039	0.036	0.035	0.042	10.65
9) l2	1260-1	0.094	0.093	0.088	0.088	0.083	0.090	0.078	0.072	0.069	0.066	0.082	12.52
10) l2	1260-2	0.113	0.111	0.105	0.101	0.097	0.105	0.093	0.085	0.082	0.079	0.097	12.54
11) l2	1260-3	0.094	0.090	0.084	0.081	0.080	0.084	0.078	0.069	0.068	0.065	0.079	12.09
12) l2	1260-4	0.174	0.171	0.165	0.162	0.158	0.160	0.151	0.139	0.138	0.135	0.155	8.92

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
13)	l2	1260-5	0.121	0.127	0.118	0.114	0.112	0.114	0.112	0.097	0.096	0.094	0.111	10.22
14)	i	2154_1br2nb	----------ISTD----------											
15)	l3	1221-1								0.017			0.017	0.00
16)	l3	1221-2								0.011			0.011	0.00
17)	l3	1221-3								0.040			0.040	0.00
18)	l4	1254-1								0.062			0.062	0.00
19)	l4	1254-2								0.073			0.073	0.00
20)	l4	1254-3								0.109			0.109	0.00
21)	l4	1254-4								0.073			0.073	0.00
22)	l4	1254-5								0.101			0.101	0.00
23)	i	4268_1br2nb	----------ISTD----------											
24)	l6	1242-1								0.021			0.021	0.00
25)	l6	1242-2								0.048			0.048	0.00
26)	l6	1242-3								0.095			0.095	0.00
27)	l6	1242-4								0.039			0.039	0.00
28)	l6	1242-5								0.031			0.031	0.00
29)	l9	1268-1								0.190			0.190	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
30)	l9	1268-2								0.169			0.169	0.00
31)	l9	1268-3								0.141			0.141	0.00
32)	l9	1268-4								0.062			0.062	0.00
33)	l9	1268-5								0.399			0.399	0.00
34)	i	1248_1br2nb	----------ISTD----------											
35)	l7	1248-1								0.062			0.062	0.00
36)	l7	1248-2								0.043			0.043	0.00
37)	l7	1248-3								0.053			0.053	0.00
38)	l7	1248-4								0.060			0.060	0.00
39)	l7	1248-5								0.067			0.067	0.00
40)	i	3262_1br2nb	----------ISTD----------											
41)	l5	1232-1								0.030			0.030	0.00
42)	l5	1232-2								0.031			0.031	0.00
43)	l5	1232-3								0.060			0.060	0.00
44)	l5	1232-4								0.024			0.024	0.00
45)	l5	1232-5								0.018			0.018	0.00

Method Path : I:\PCB\Pest2\2024\240916I\
Method File : P2_PCB_09_16_24_RVT_ICAL.m
Title : pcb
Last Update : Tue Sep 17 11:03:22 2024
Response Via : Initial Calibration

Calibration Files
1 =P2240916i-06.D 2 =P2240916i-07.D 3 =P2240916i-08.D 4 =P2240916i-09.D 5 =P2240916i-10.D
6 =P2240916i-11.D 7 =P2240916i-12.D 8 =P2240916i-20.D 9 =P2240916i-14.D 10 =P2240916i-15.D

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
46)	l8 1262-1								0.073			0.073	0.00
47)	l8 1262-2								0.101			0.101	0.00
48)	l8 1262-3								0.091			0.091	0.00
49)	l8 1262-4								0.174			0.174	0.00
50)	l8 1262-5								0.062			0.062	0.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.183	1.252	223.1E6	252.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.464	1.623	3404182	4646960	0.265M4	0.269
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.05%#	0.05%#
3) s	Decachlorobi	4.024	4.542	6221294	7133944	0.584M4	0.584
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.12%#	0.12%#
	Target Compounds						
4) l1	1016-1	1.601	1.822	1029923	1469461	3.981M2	4.440
5) l1	1016-2	1.741	1.992	2300019	2790342	4.056M4	3.950M4
6) l1	1016-3	1.928	2.193	4483244	6158924	4.263	4.314M1
7) l1	1016-4	1.984	2.253	1839001	2560108	4.022	4.457
8) l1	1016-5	2.152	2.463	2234094	1986914	4.476M4	4.427
Sum	1016-1			11886280	14965749	20.798	21.588
Average	1016-1					4.160	4.318
9) l2	1260-1	2.693	3.072	2975268	3811020	4.339M3	4.214
10) l2	1260-2	2.824	3.173	4378607	4567332	4.215M3	4.284
11) l2	1260-3	3.139	3.565	2430624	3790654	3.979M4	4.412

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-4	3.294	3.694	5691017	7034236	4.216M4	4.209
13) l2	1260-5	3.442	3.894	4203645	4879989	4.289M1	4.038M4
Sum	1260-1			19679161	24083232	NoCal	NoCal D
Average	1260-1					4.208	4.231
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D.	N.D.
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D.	N.D.
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D.	N.D.
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D.	N.D.
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D.	N.D.
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D.	N.D.
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

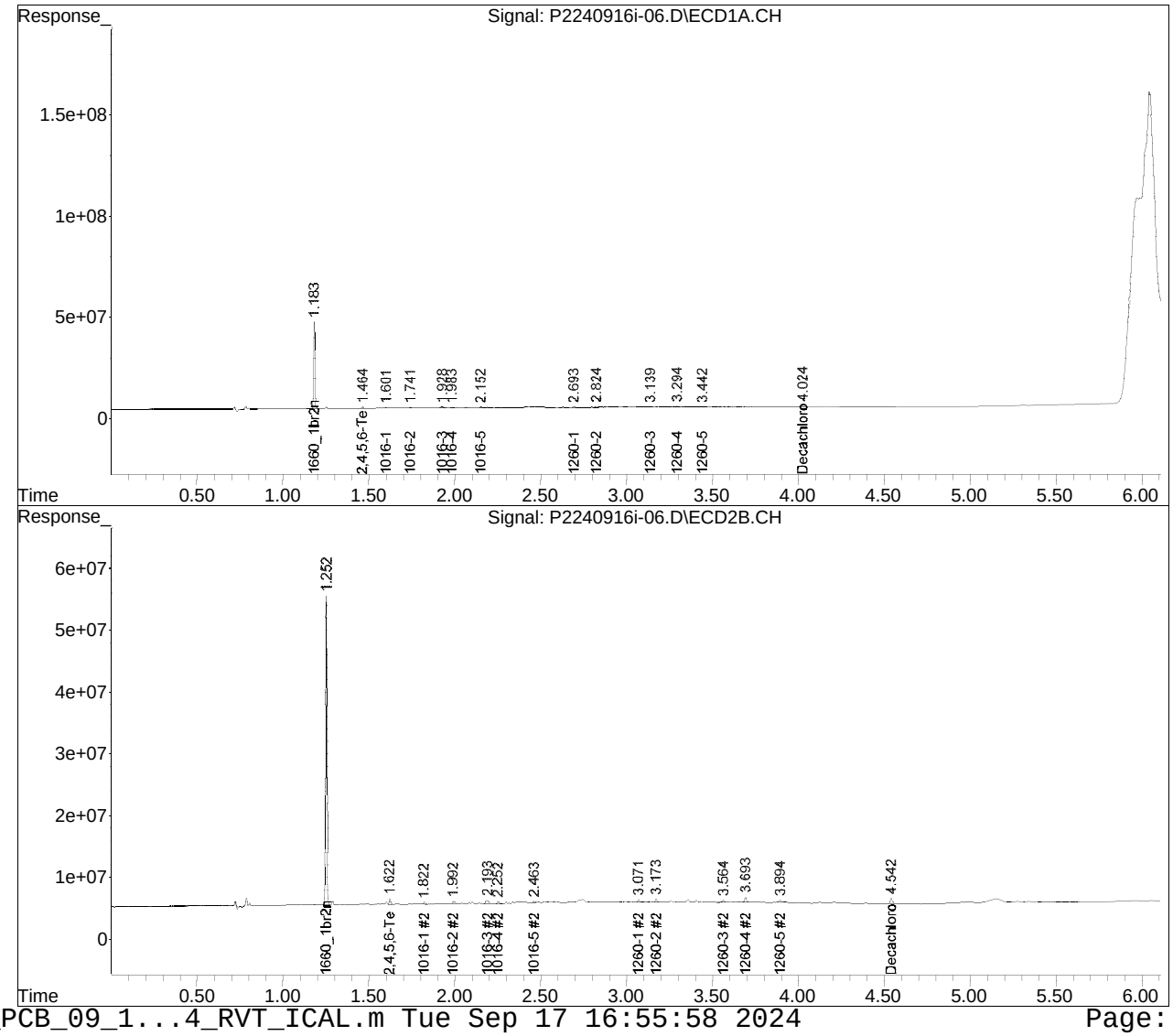
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:29 pm
Operator : pest2:kb/sdc
Sample : il11660,42,,pp11790 4PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:25:26 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:23:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

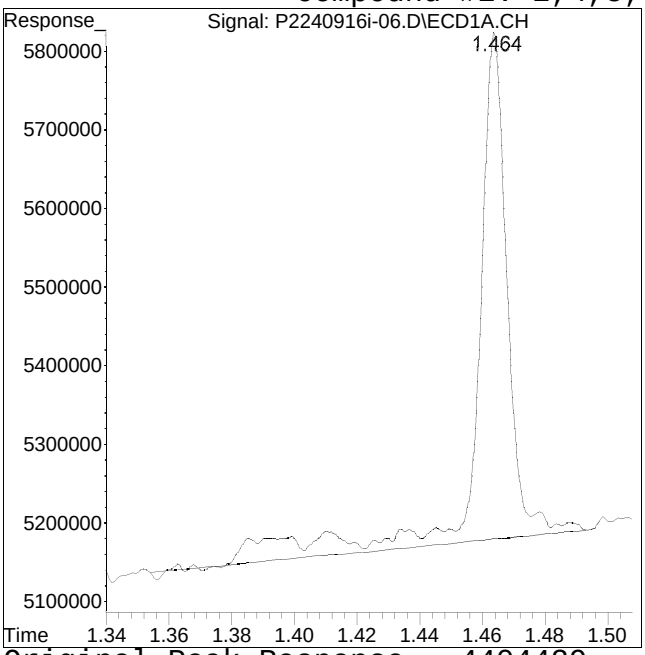
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



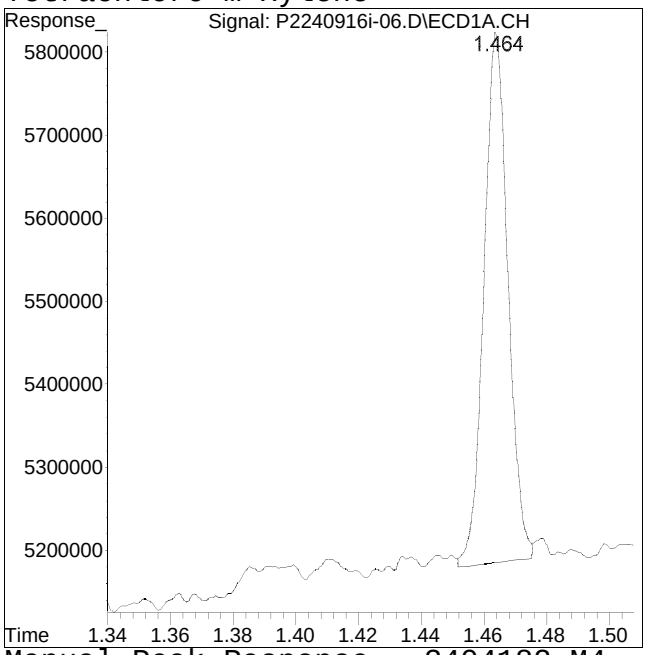
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 4404429



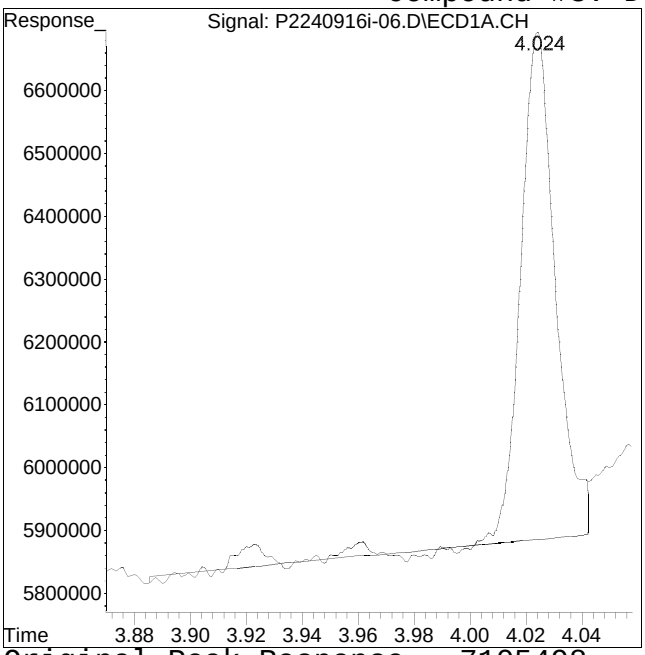
Manual Peak Response = 3404182 M4

M4 = Poor automated baseline construction.

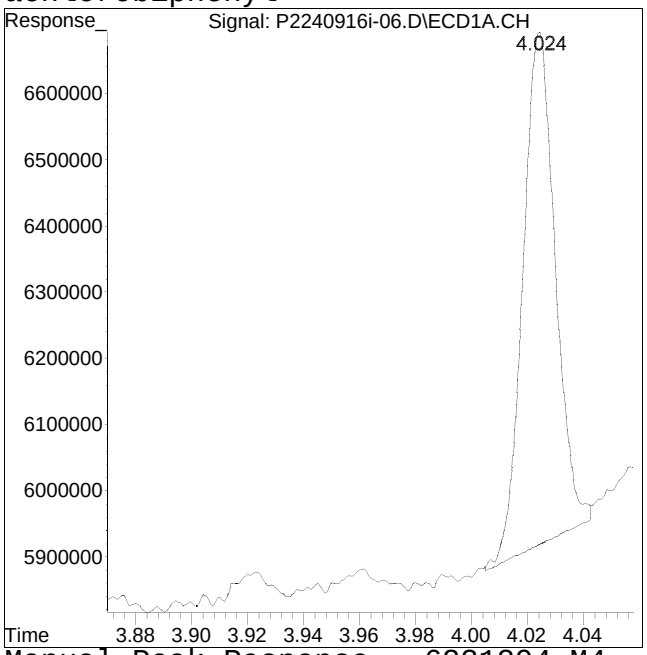
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 7105498



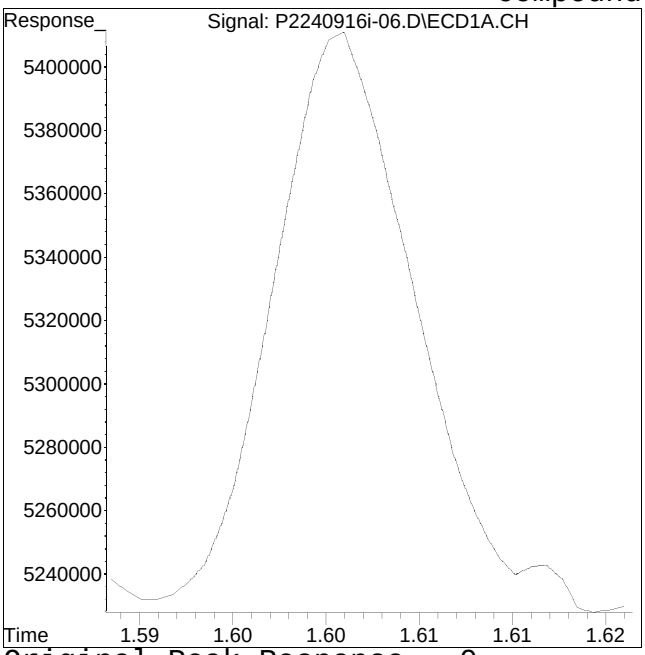
Manual Peak Response = 6221294 M4

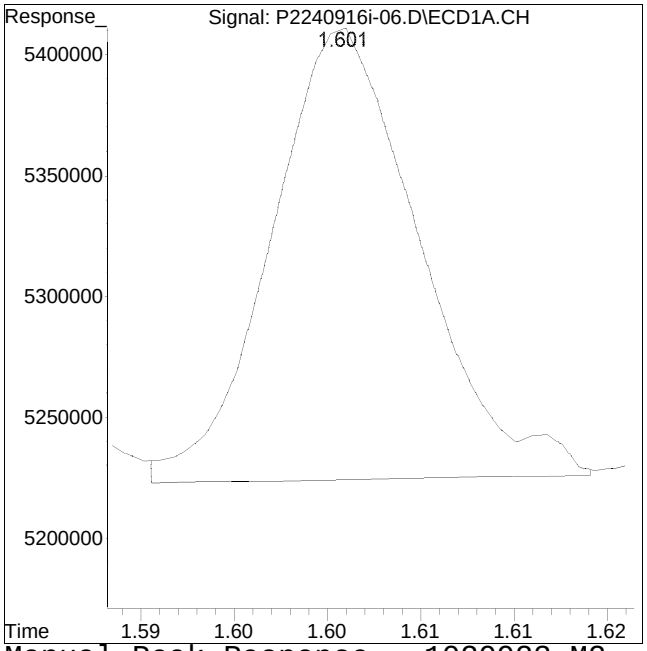
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #4: 1016-1



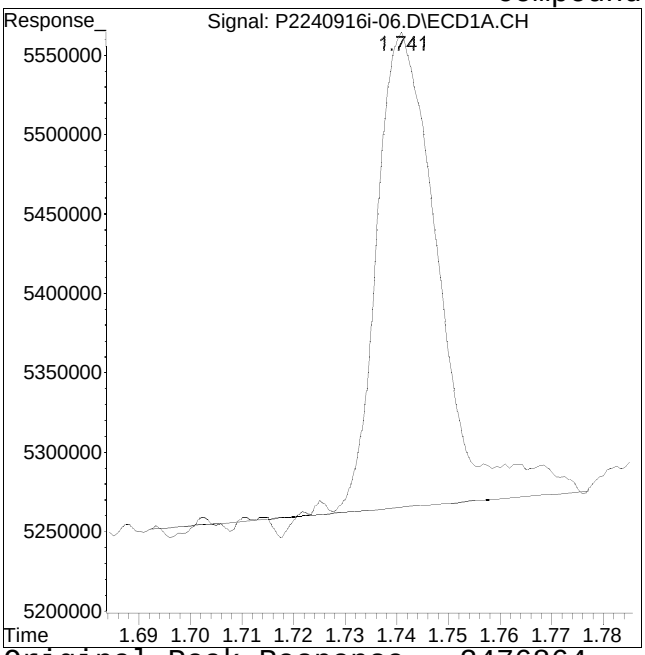


Original Peak Response = 0 Manual Peak Response = 1029923 M2
M2 = Peak not found by automatic integration algorithm.

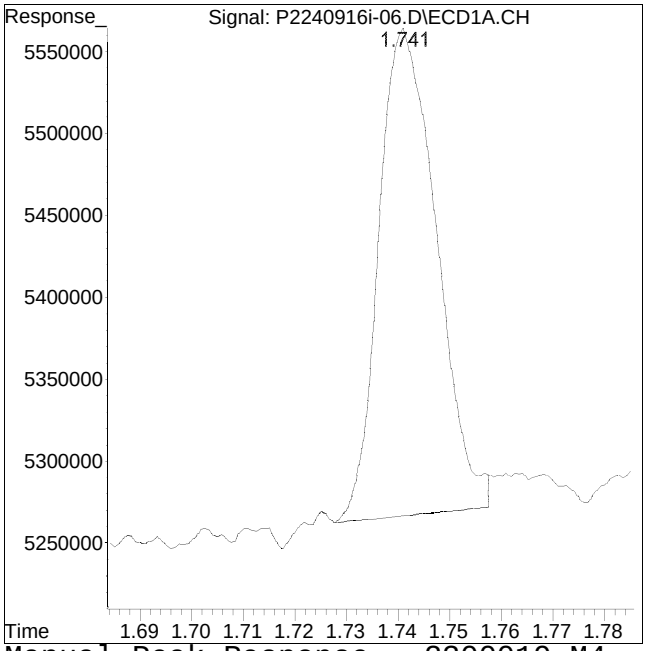
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #5: 1016-2



Original Peak Response = 2476864



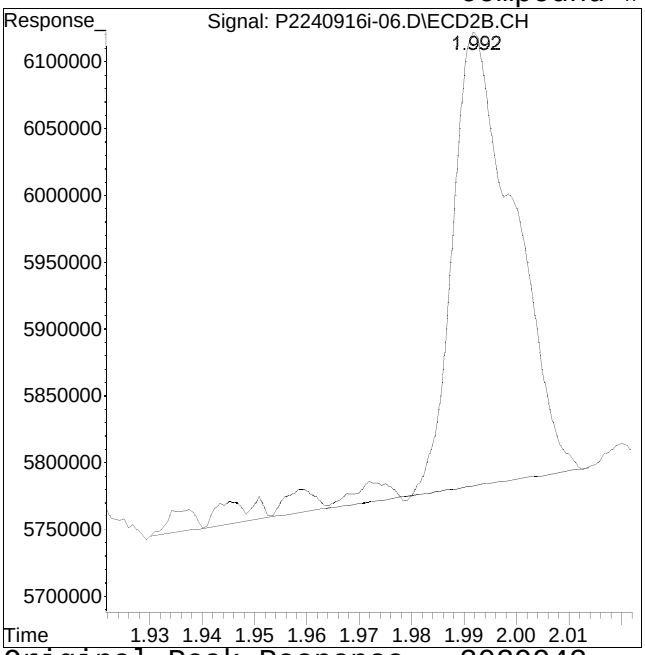
Manual Peak Response = 2300019 M4

M4 = Poor automated baseline construction.

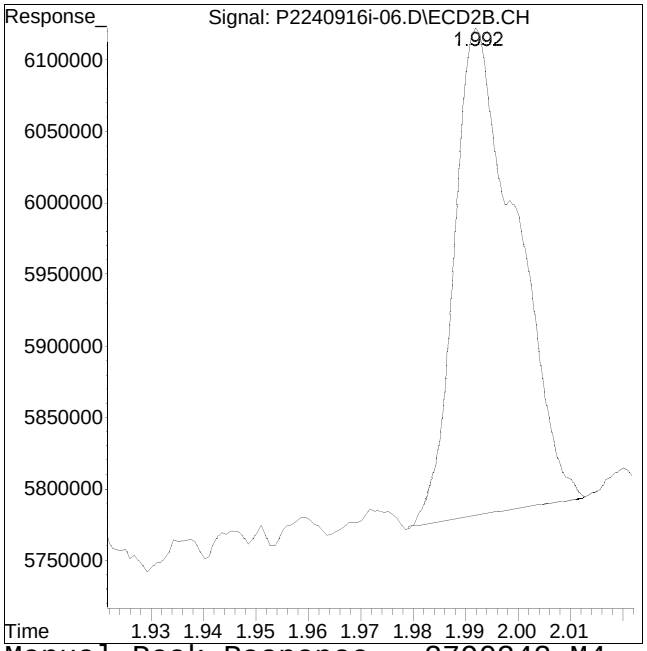
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #56: 1016-2 #2



Original Peak Response = 3029942



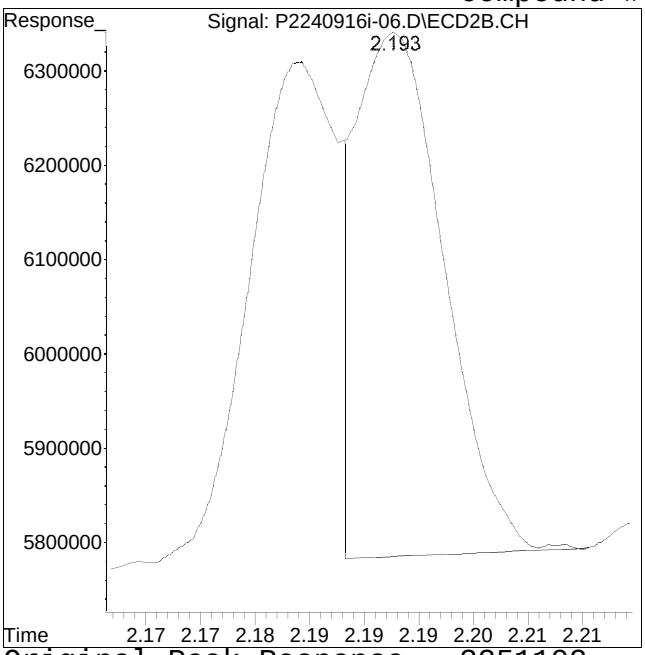
Manual Peak Response = 2790342 M4

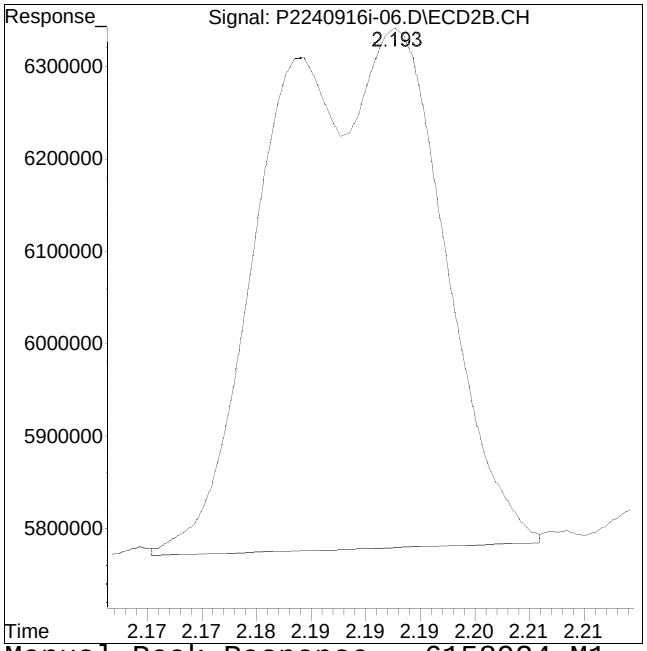
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #57: 1016-3 #2



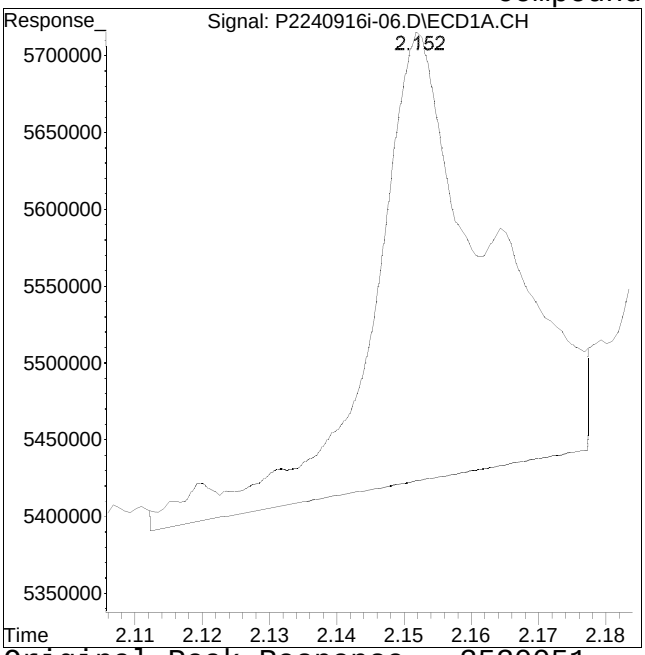


Original Peak Response = 3251102 Manual Peak Response = 6158924 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

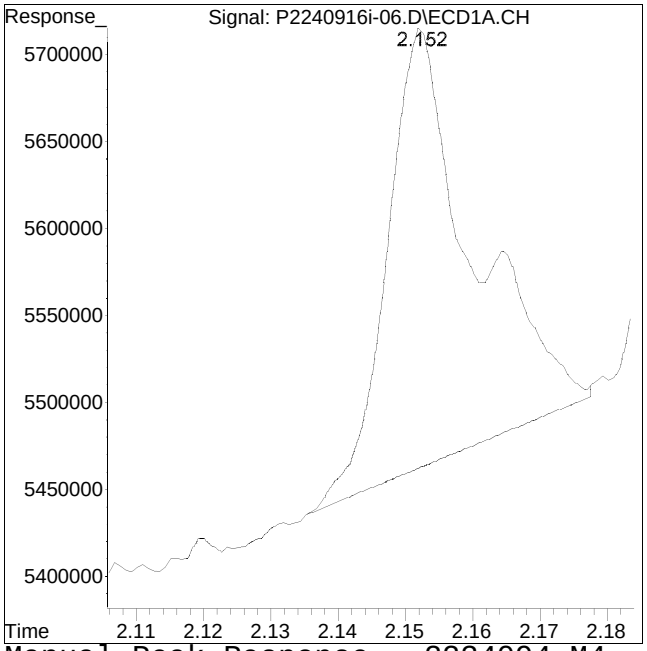
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #8: 1016-5



Original Peak Response = 3530051



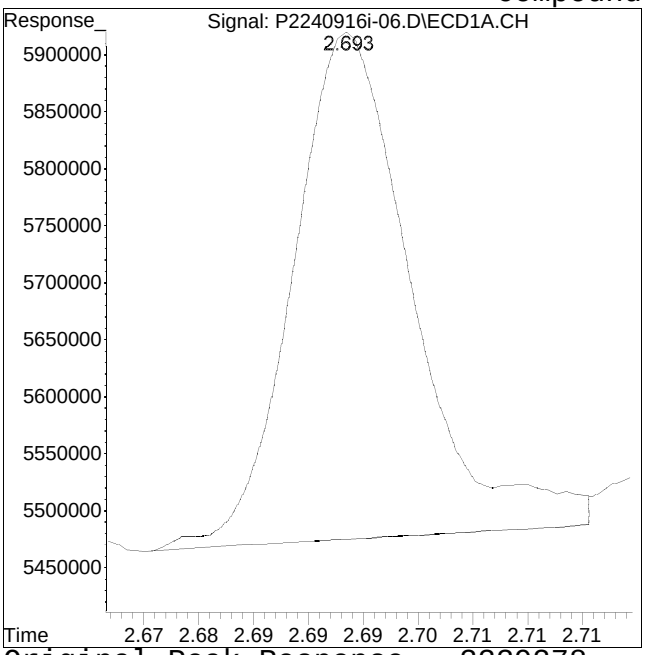
Manual Peak Response = 2234094 M4

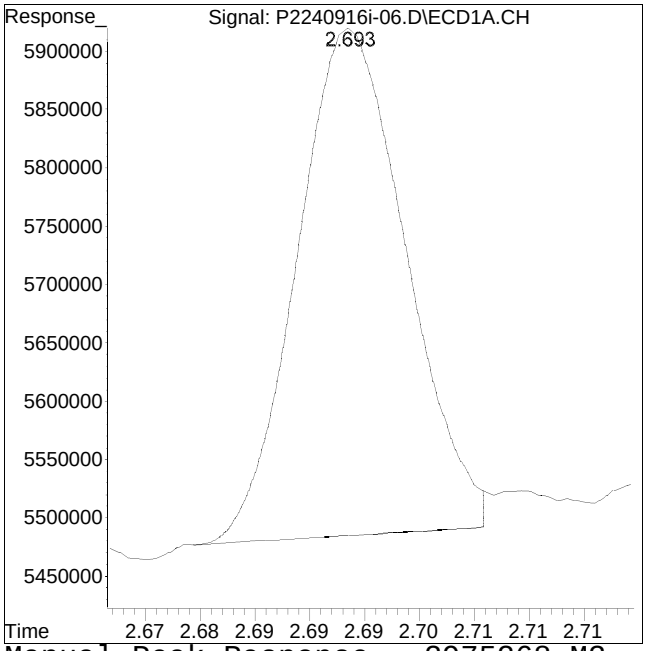
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #9: 1260-1



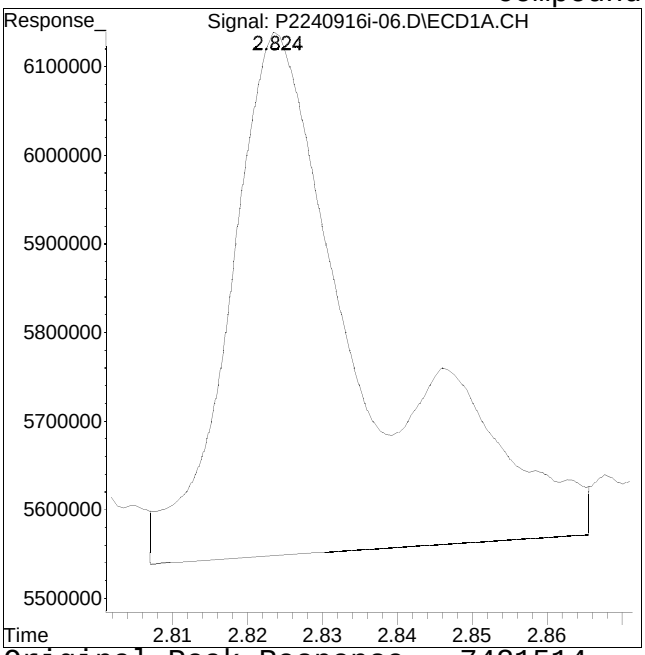


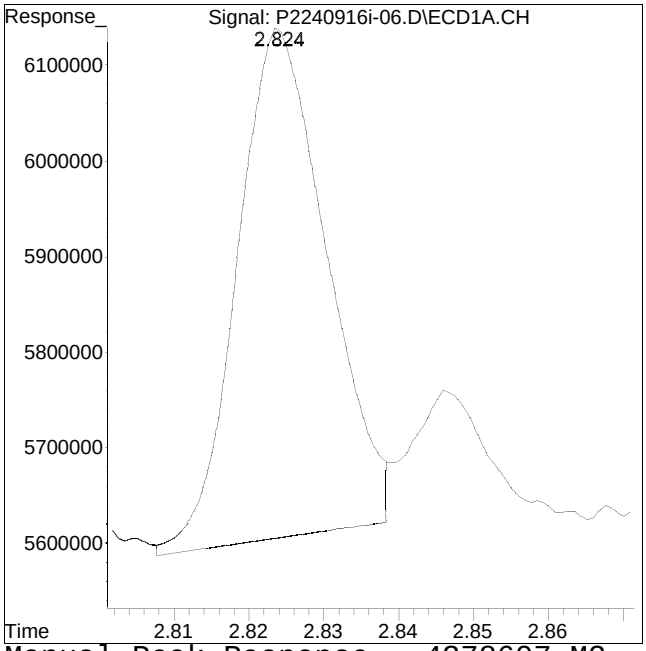
Original Peak Response = 3339278 Manual Peak Response = 2975268 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #10: 1260-2



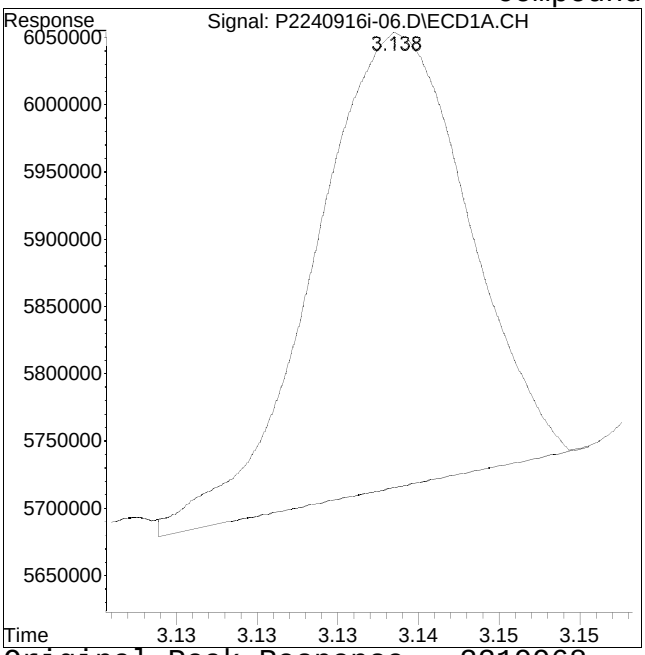


Original Peak Response = 7421514 Manual Peak Response = 4378607 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

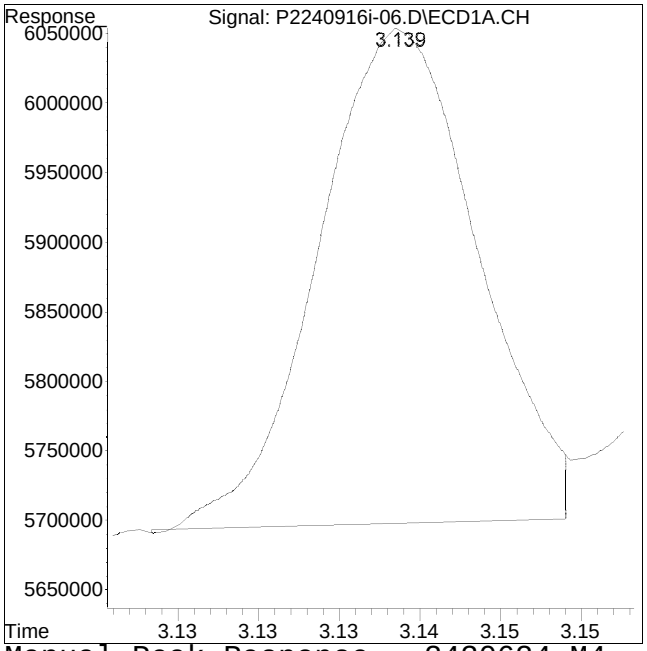
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #11: 1260-3



Original Peak Response = 2219968



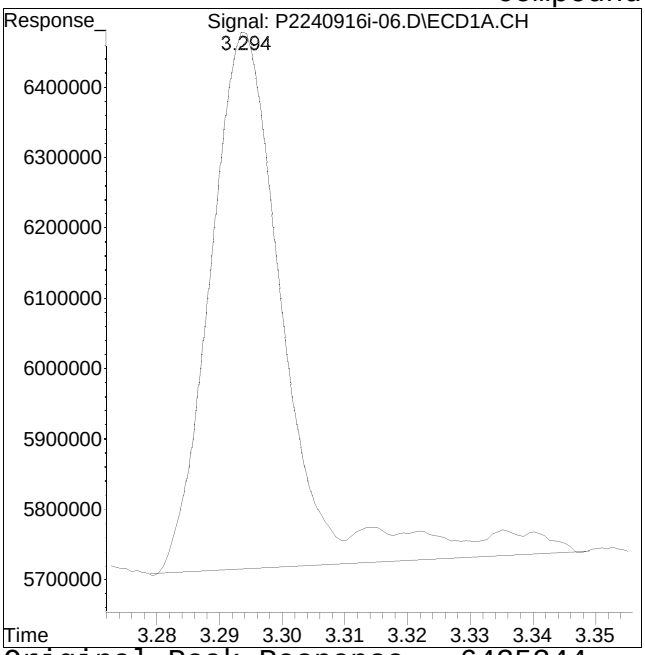
Manual Peak Response = 2430624 M4

M4 = Poor automated baseline construction.

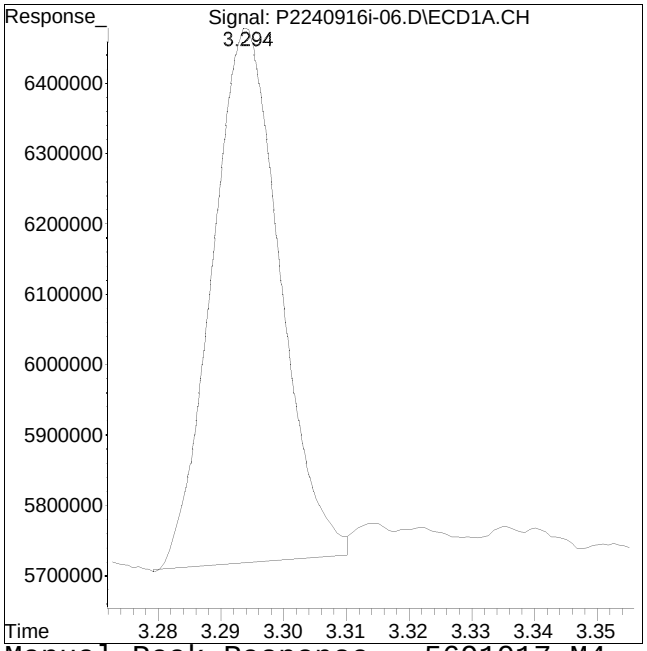
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #12: 1260-4



Original Peak Response = 6435344



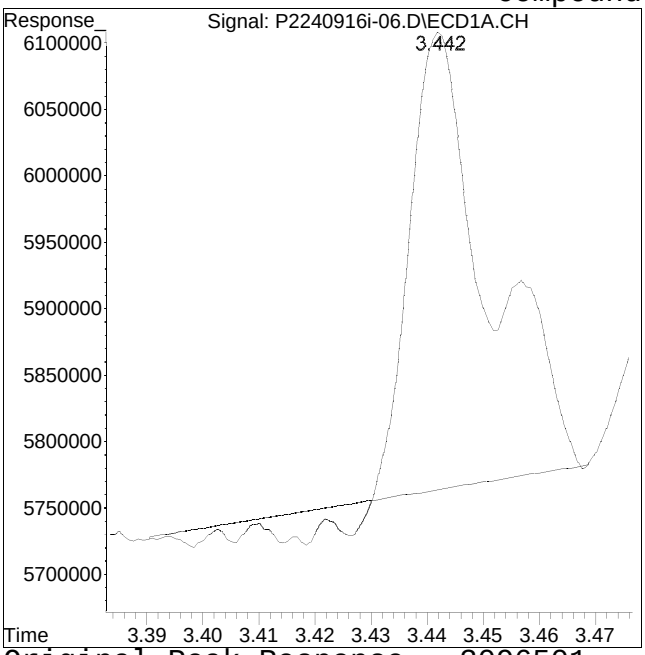
Manual Peak Response = 5691017 M4

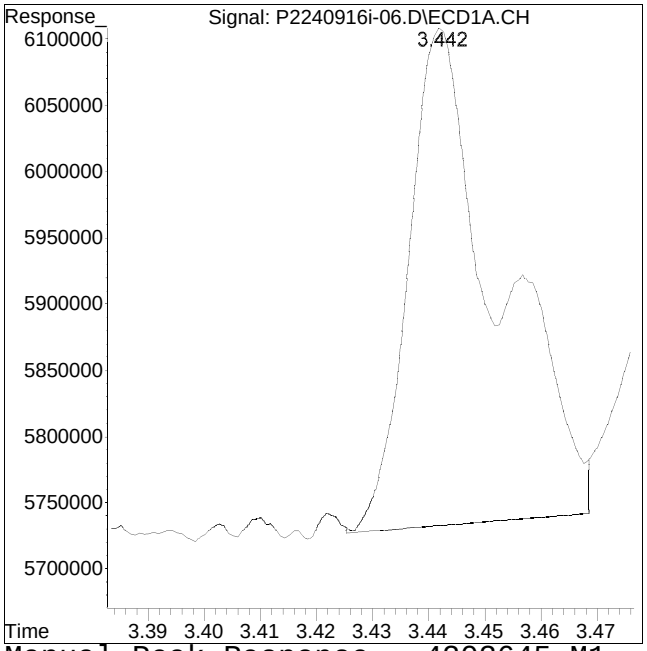
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #13: 1260-5



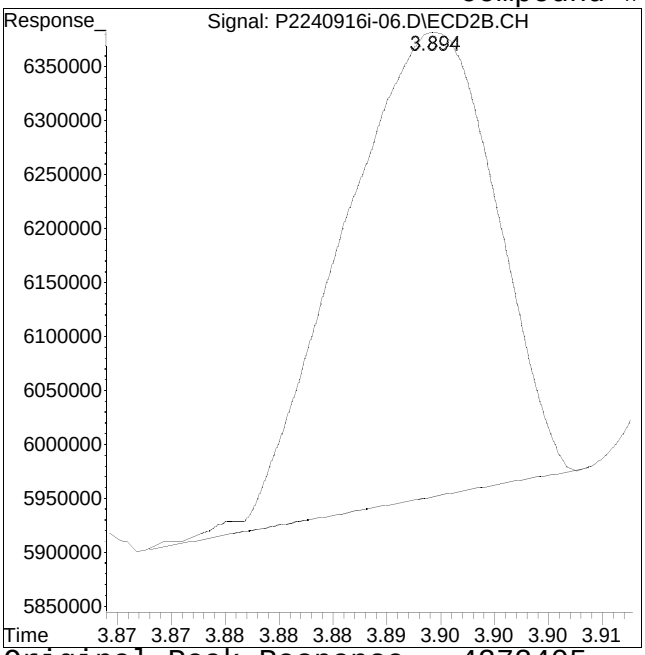


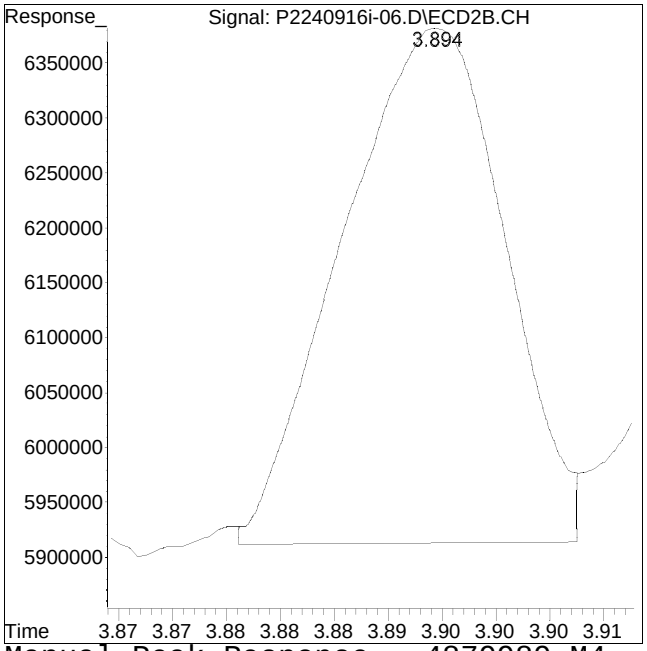
Original Peak Response = 3096501 Manual Peak Response = 4203645 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-06.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:29 pm Instrument : Pest 2
Sample : il11660,42,,pp11790 4PPB Quant Date : 9/16/2024 4:25 pm

Compound #64: 1260-5 #2





Original Peak Response = 4272405 Manual Peak Response = 4879989 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.252	219.1E6	243.8E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.623	7987682	10752059	0.631M4	0.646
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.13%#	0.13%#
3) s	Decachlorobi	4.026	4.544	13731354	15996221	1.331	1.395
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.27%#	0.28%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	2592848	3299517	10.311	10.472
5) l1	1016-2	1.743	1.992	5479904	6752278	9.761	9.828M4
6) l1	1016-3	1.930	2.193	9836137	14142824	9.300M4	10.371M4
7) l1	1016-4	1.984	2.253	4120248	5578996	8.812M4	10.068
8) l1	1016-5	2.154	2.464	4247732	4514739	8.123	10.618
Sum	1016-1			26276868	34288354	46.305	51.358
Average	1016-1					9.261	10.272
9) l2	1260-1	2.695	3.073	6922616	9057396	10.423M4	10.546
10) l2	1260-2	2.825	3.174	10390964	10827414	10.279M4	10.775
11) l2	1260-3	3.140	3.566	5904233	8783091	9.765M4	10.885
12) l2	1260-4	3.295	3.695	13679789	16641459	10.484M4	10.453

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2	1260-5	3.443	3.896	9648416	12378615	10.036M4	10.915M4
Sum	1260-1			46546019	57687975	NoCal	NoCal D
Average	1260-1					10.197	10.715
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D.	N.D.
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D.	N.D.
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D.	N.D.
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D.	N.D.
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D.	N.D.
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D.	N.D.
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

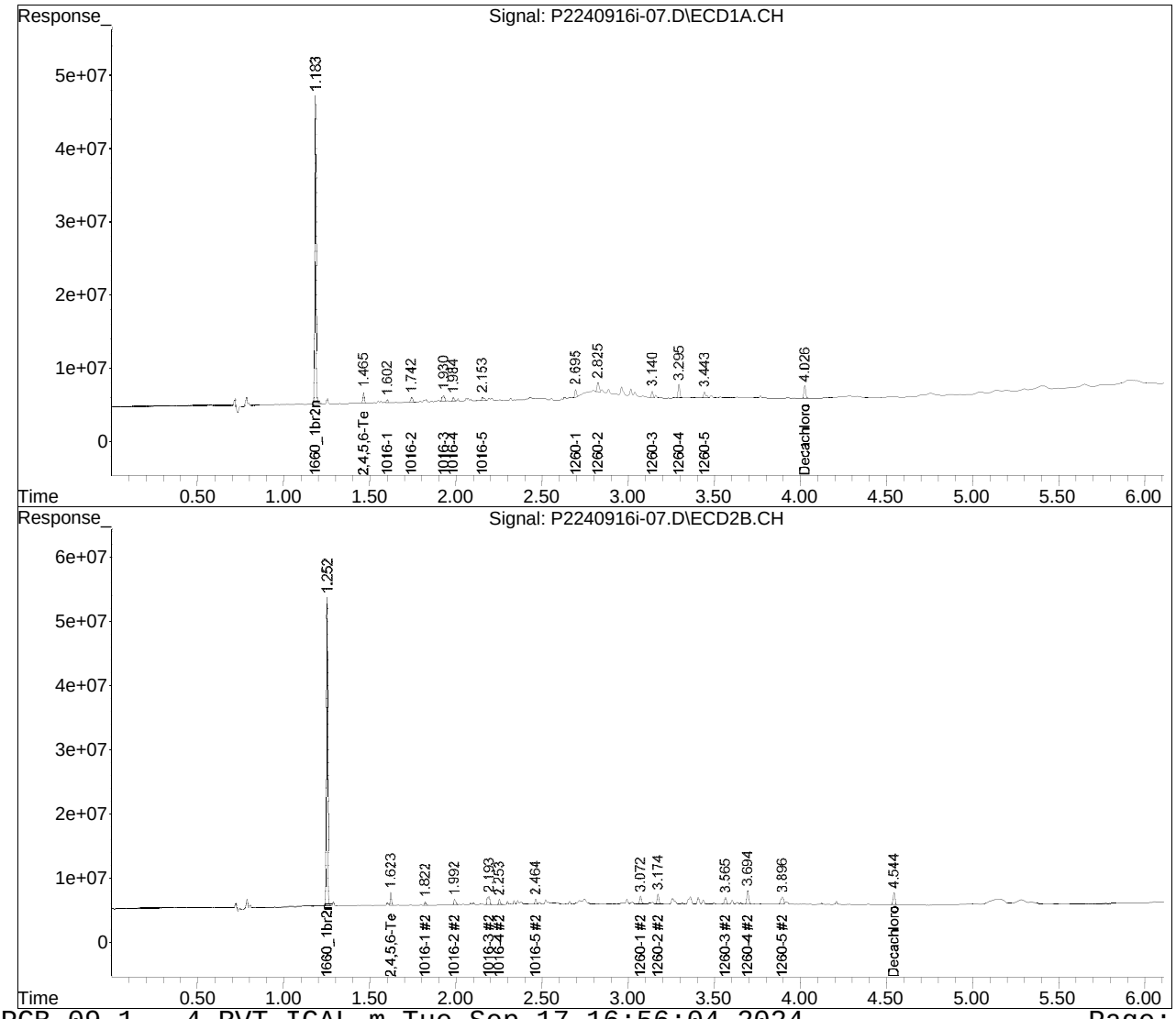
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:38 pm
Operator : pest2:kb/sdc
Sample : il21660,42,,pp11790 10PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:21:06 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:20:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

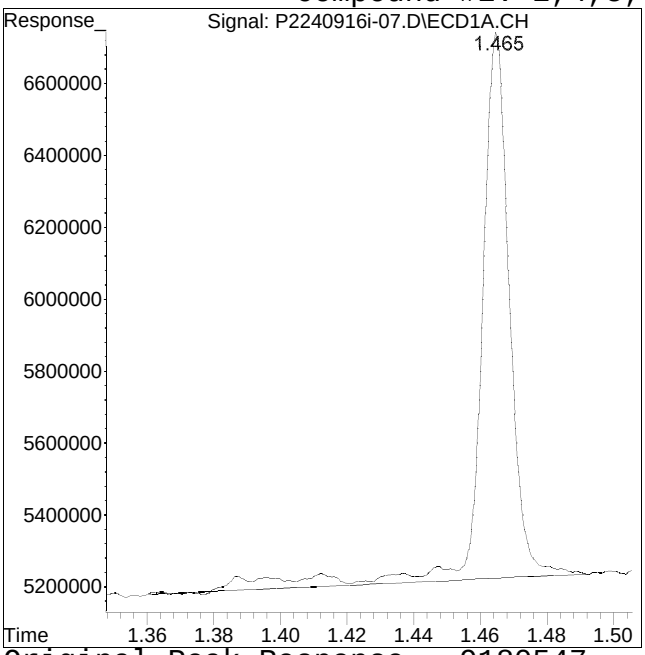
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



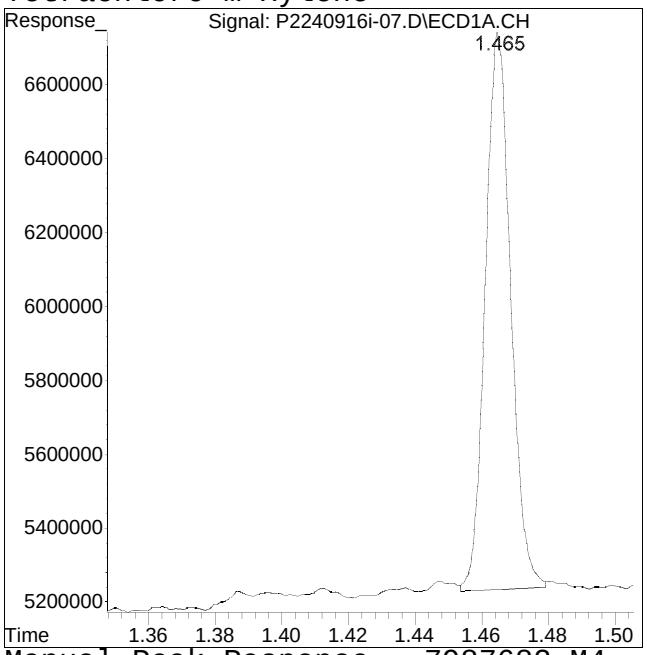
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 9180547



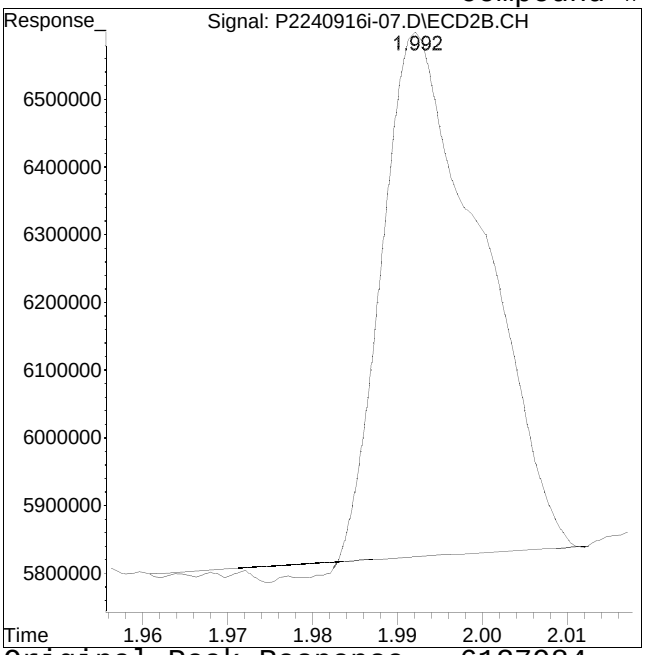
Manual Peak Response = 7987682 M4

M4 = Poor automated baseline construction.

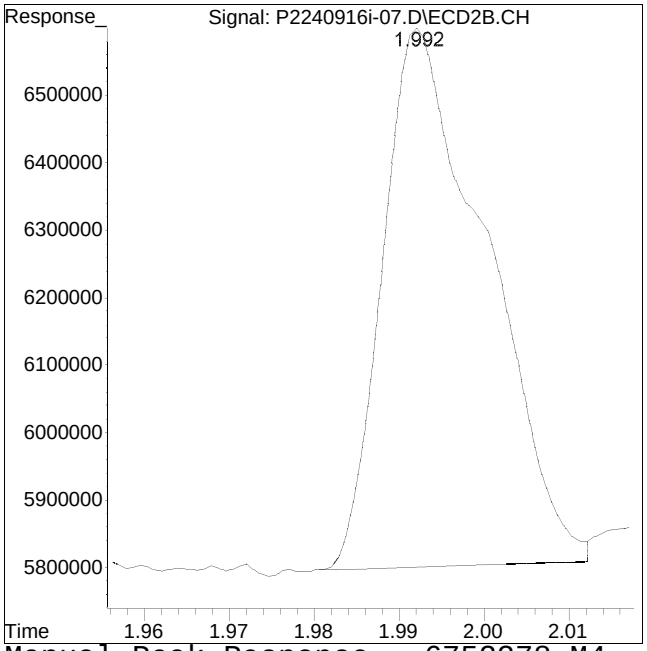
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #56: 1016-2 #2



Original Peak Response = 6127984



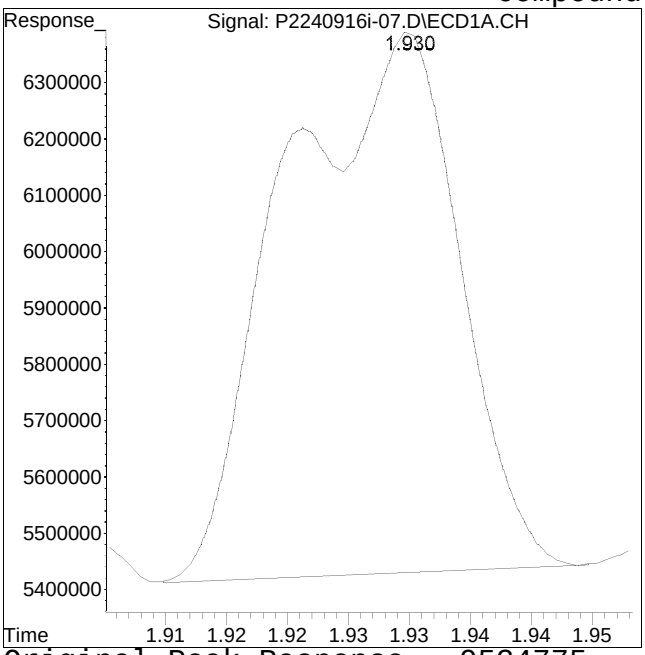
Manual Peak Response = 6752278 M4

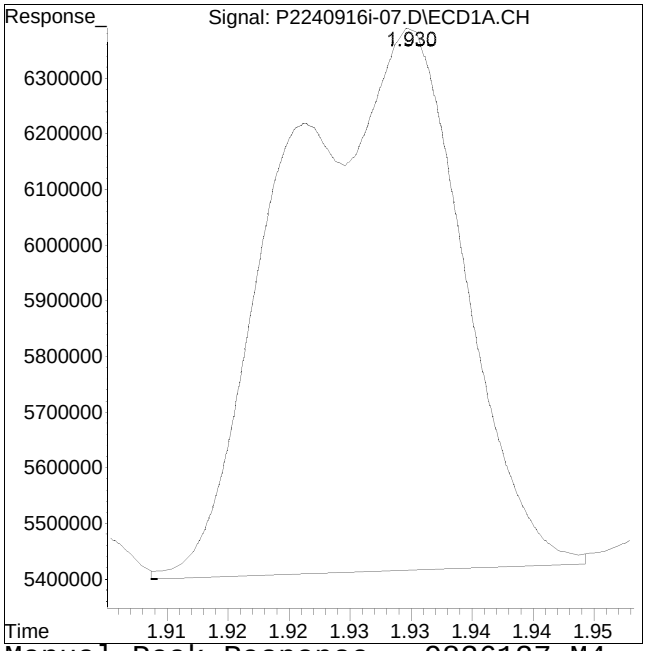
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #6: 1016-3



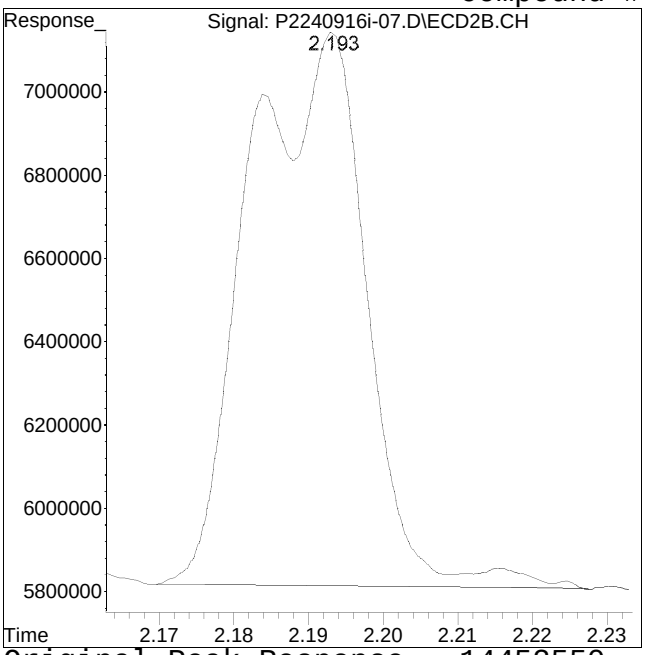


Original Peak Response = 9534775 Manual Peak Response = 9836137 M4
M4 = Poor automated baseline construction.

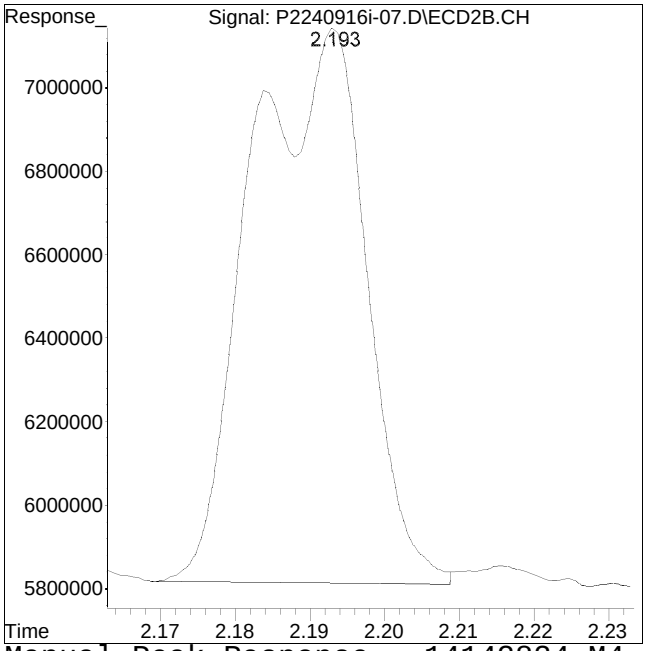
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #57: 1016-3 #2



Original Peak Response = 14452550



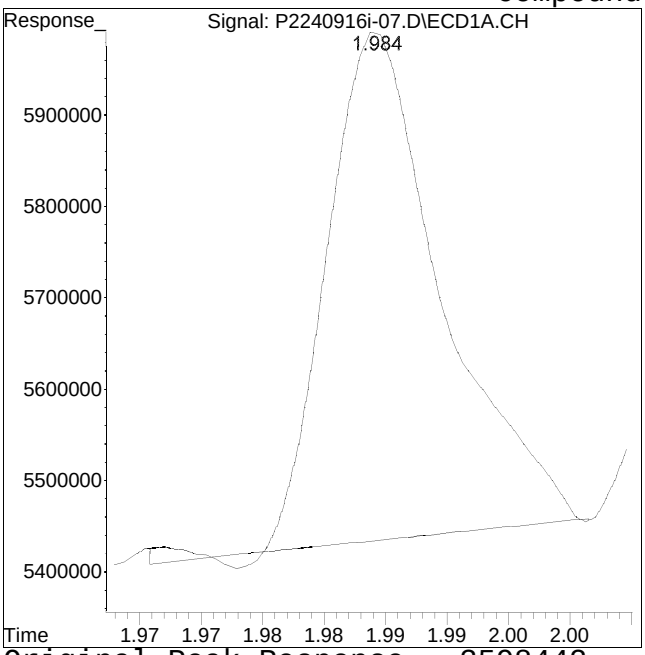
Manual Peak Response = 14142824 M4

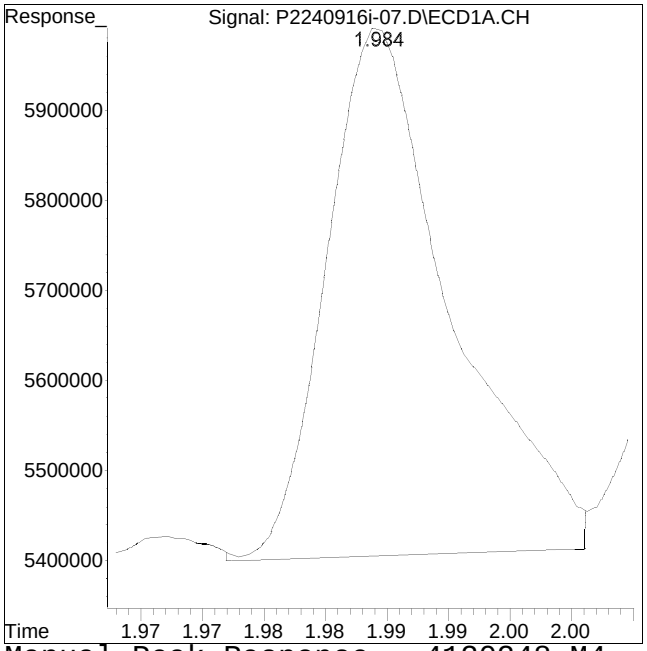
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #7: 1016-4



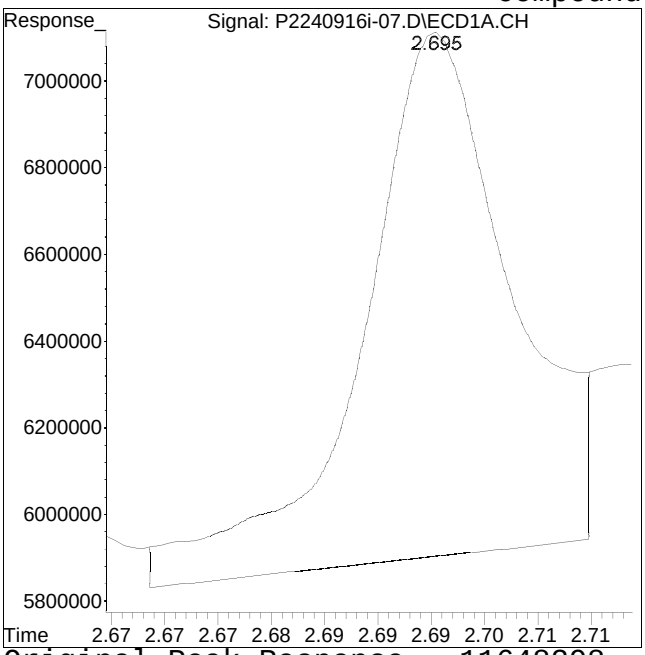


Original Peak Response = 3598442 Manual Peak Response = 4120248 M4
M4 = Poor automated baseline construction.

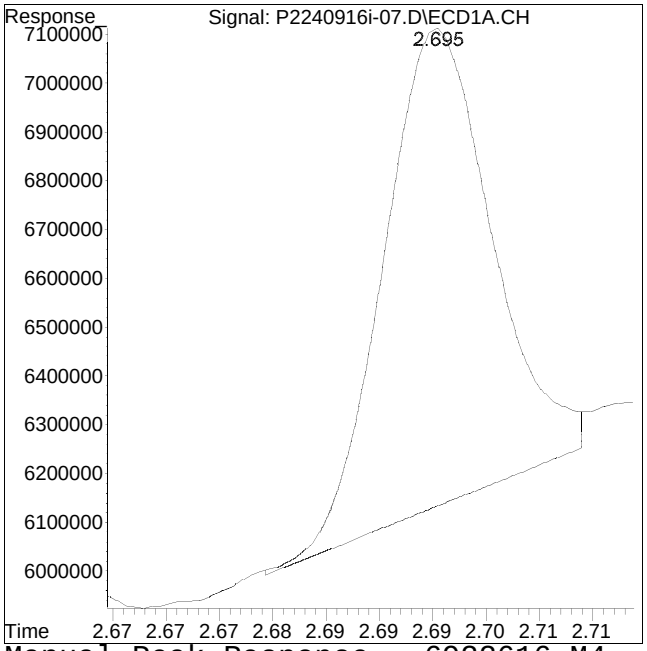
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #9: 1260-1



Original Peak Response = 11648298



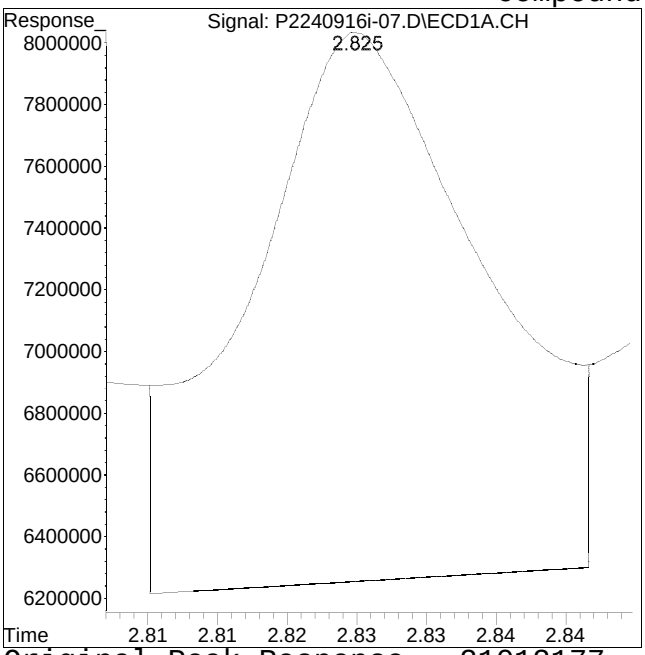
Manual Peak Response = 6922616 M4

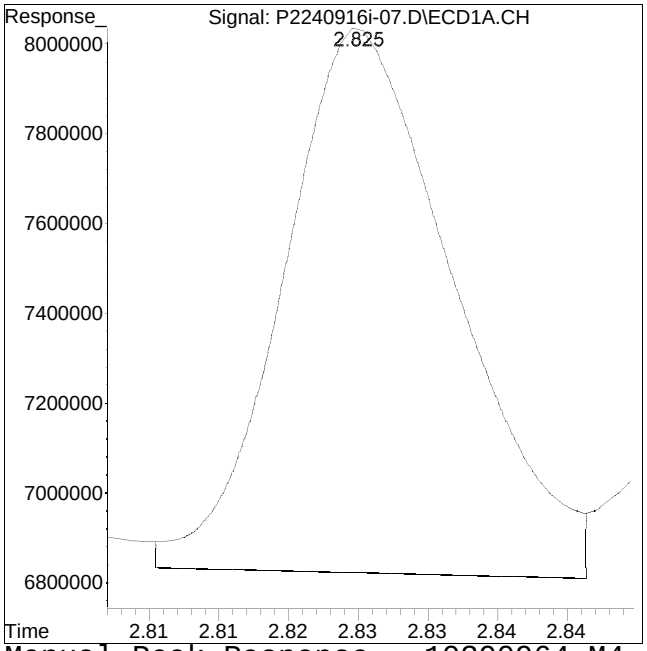
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #10: 1260-2



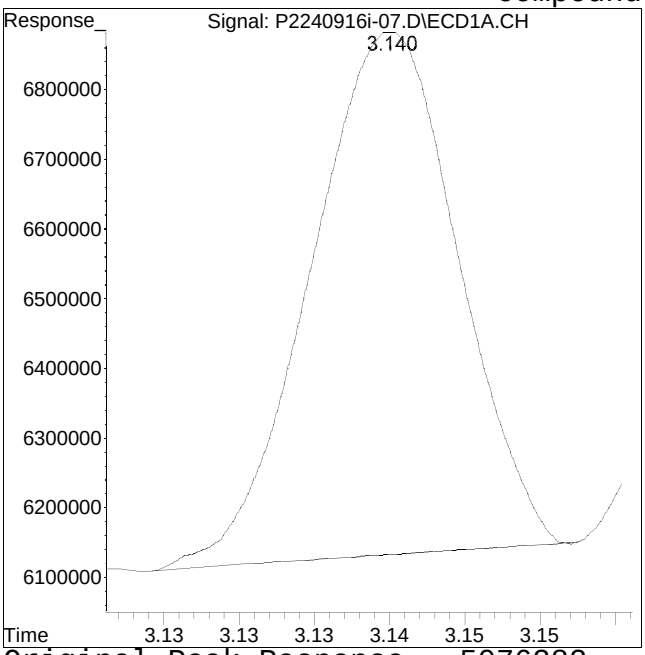


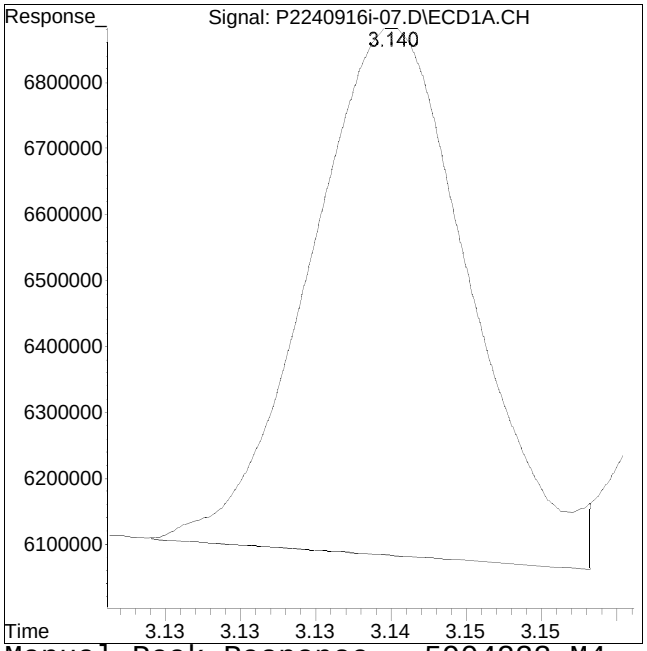
Original Peak Response = 21012177 Manual Peak Response = 10390964 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #11: 1260-3



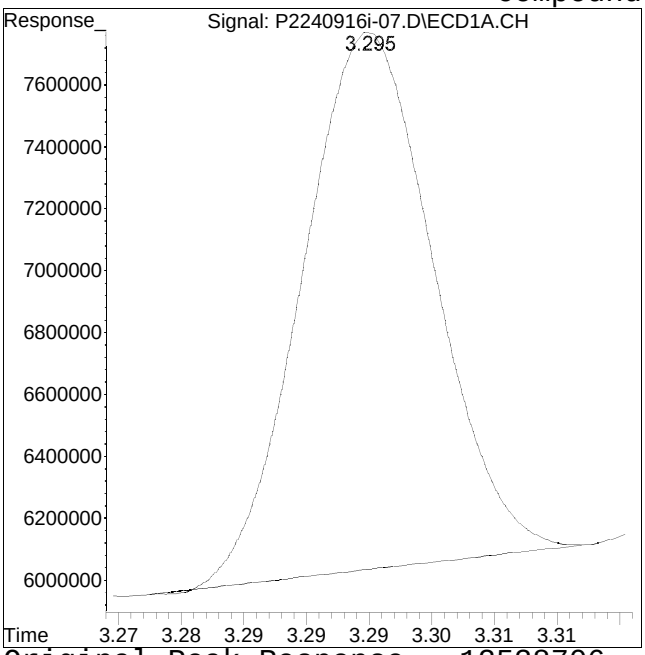


Original Peak Response = 5076282 Manual Peak Response = 5904233 M4
M4 = Poor automated baseline construction.

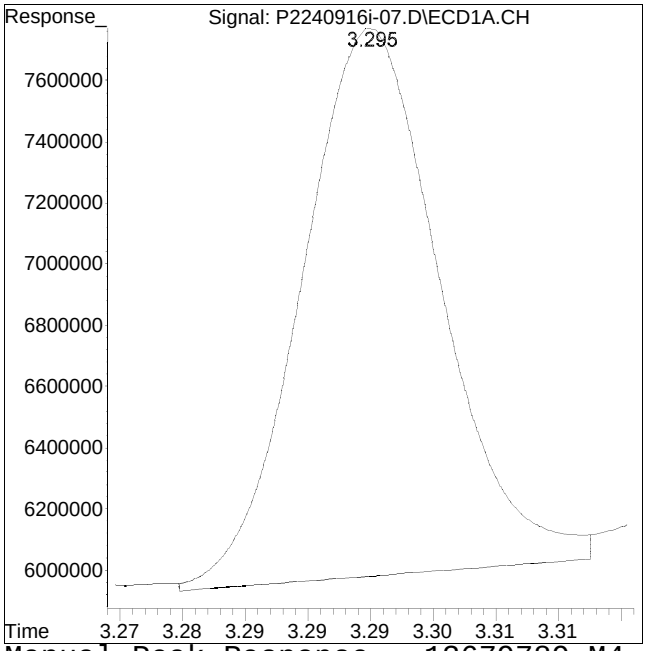
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #12: 1260-4



Original Peak Response = 12538706



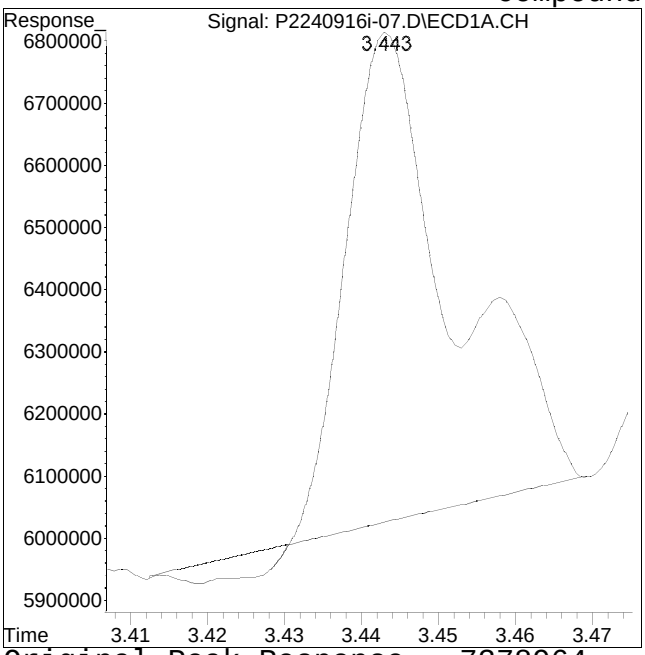
Manual Peak Response = 13679789 M4

M4 = Poor automated baseline construction.

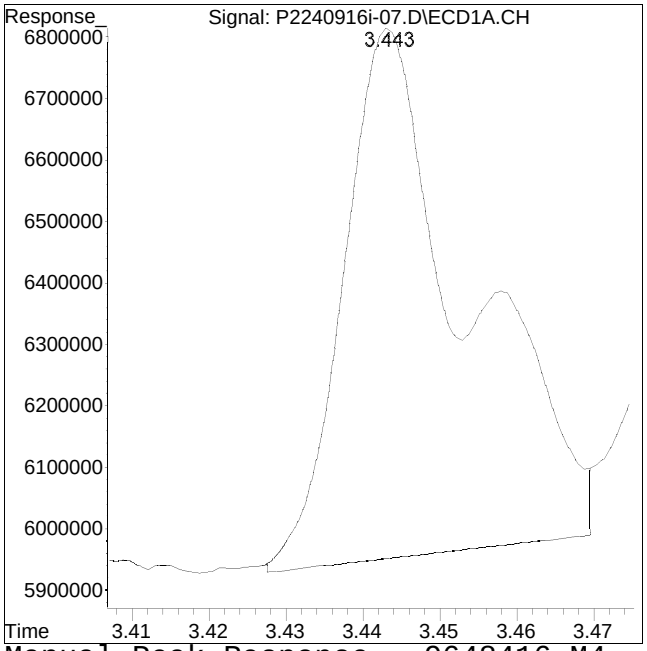
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #13: 1260-5



Original Peak Response = 7378964



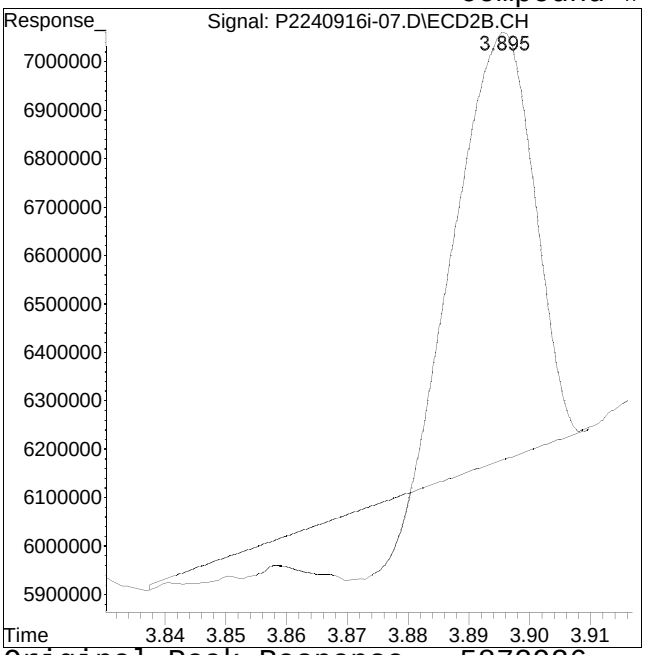
Manual Peak Response = 9648416 M4

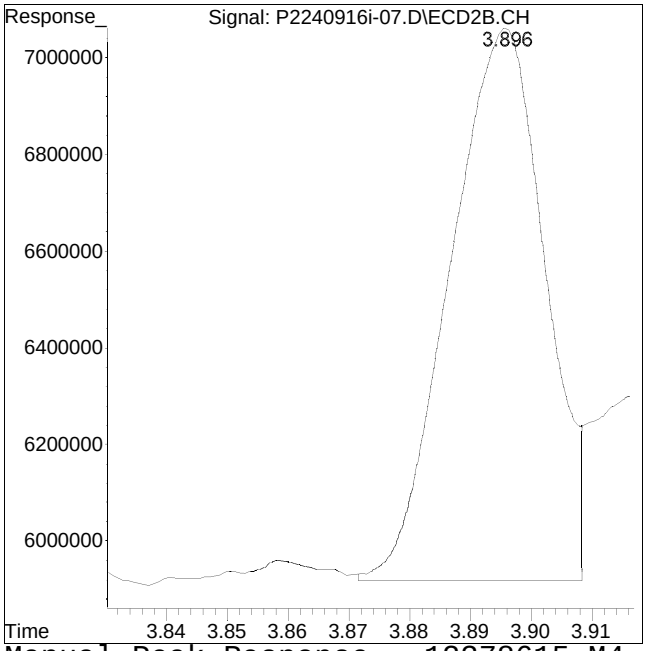
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-07.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:38 pm Instrument : Pest 2
Sample : il21660,42,,pp11790 10PPB Quant Date : 9/16/2024 4:21 pm

Compound #64: 1260-5 #2





Original Peak Response = 5872926 Manual Peak Response = 12378615 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	214.3E6	243.4E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.623	16020654	22117529	1.309M4	1.384
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.26%#	0.28%#
3) s	Decachlorobi	4.026	4.544	25914732	30032686	2.576	2.688
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.52%#	0.54%#
	Target Compounds						
4) l1	1016-1	1.603	1.823	5018375	6360232	20.831	20.435
5) l1	1016-2	1.743	1.992	10998480	13977131	20.066	20.762M4
6) l1	1016-3	1.930	2.194	21149857	27872165	20.918	20.960
7) l1	1016-4	1.985	2.253	9501897	11367344	21.624	21.119
8) l1	1016-5	2.154	2.464	10607500	8713170	21.543	21.072
	Sum 1016-1			57276108	68290042	104.982	104.349
	Average 1016-1					20.996	20.870
9) l2	1260-1	2.696	3.072	13204544	17107728	20.673	19.899
10) l2	1260-2	2.826	3.174	19987171	20486116	20.441	20.853
11) l2	1260-3	3.140	3.566	11909007	16402627	20.284M4	20.730
12) l2	1260-4	3.295	3.695	25682756	32138585	20.258M4	20.438
13) l2	1260-5	3.443	3.896	18874650	23027119	20.154M1	20.680
	Sum 1260-1			89658127	109.2E6	NoCal	NoCal D

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					20.362	20.520
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

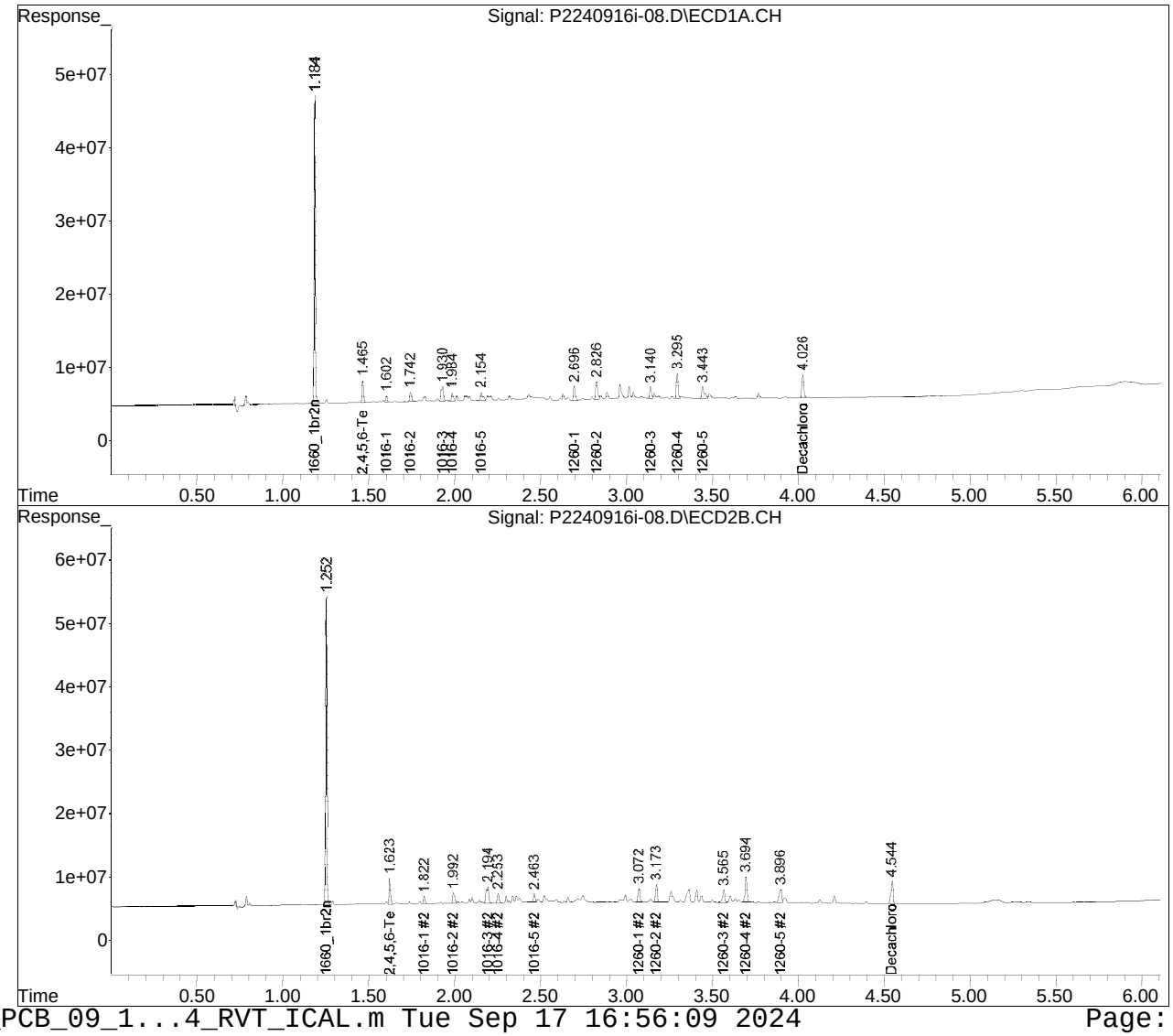
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:47 pm
Operator : pest2:kb/sdc
Sample : il31660,42,,pp11790 20PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:19:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:18:55 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

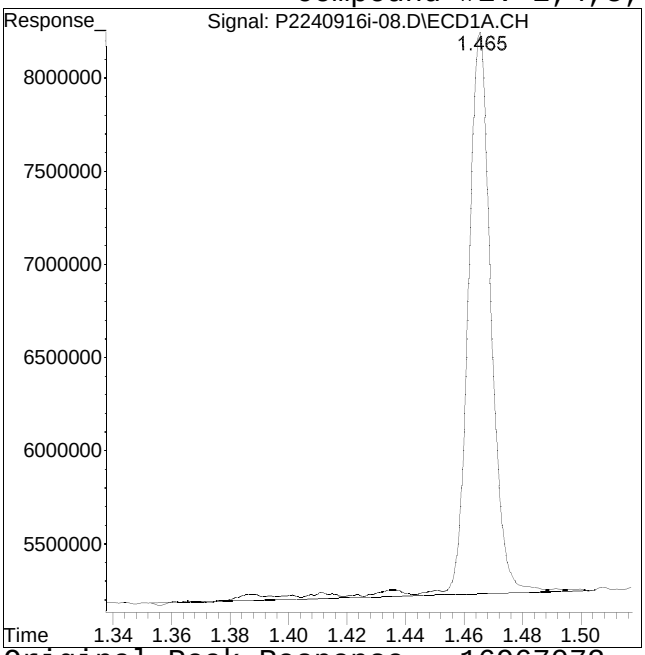
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

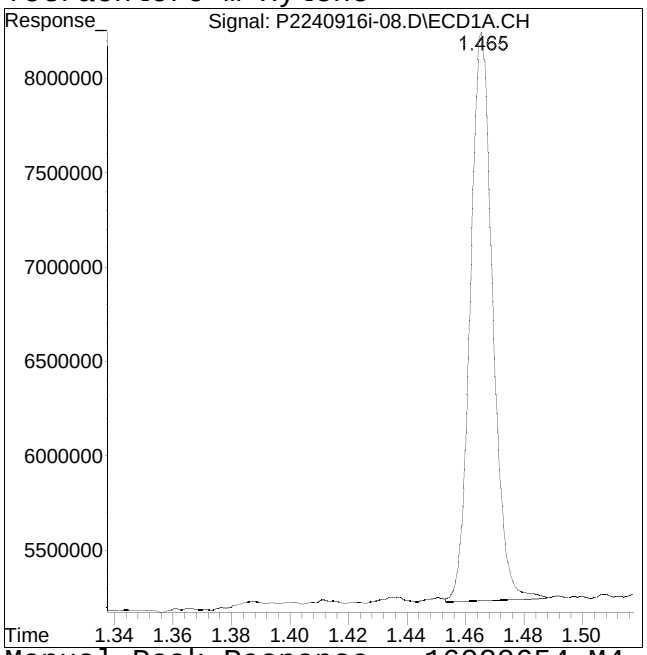


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



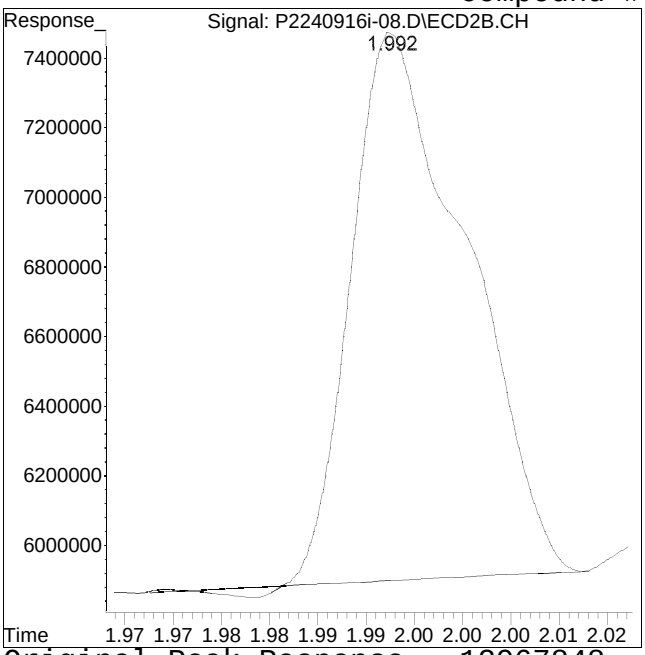


Original Peak Response = 16967072 Manual Peak Response = 16020654 M4
M4 = Poor automated baseline construction.

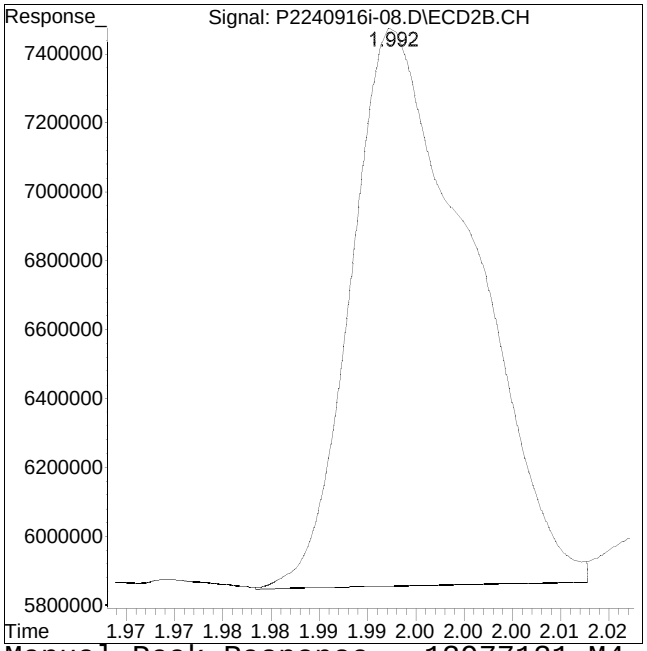
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #56: 1016-2 #2



Original Peak Response = 12967848



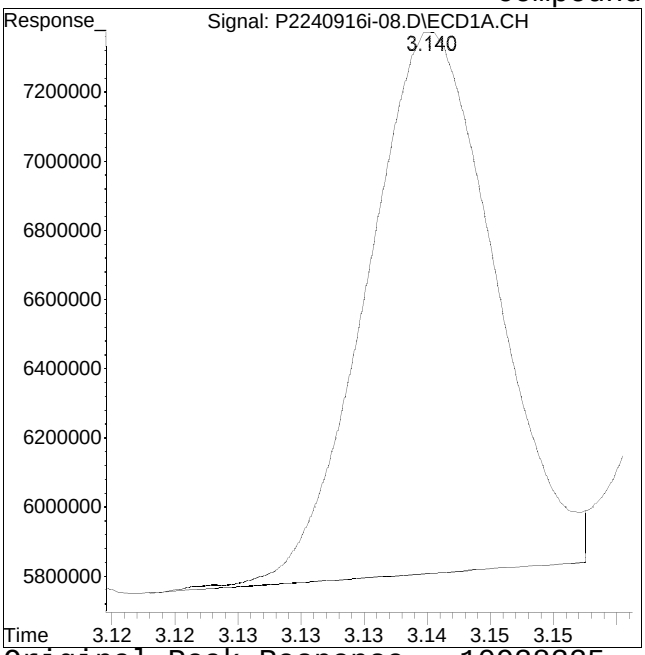
Manual Peak Response = 13977131 M4

M4 = Poor automated baseline construction.

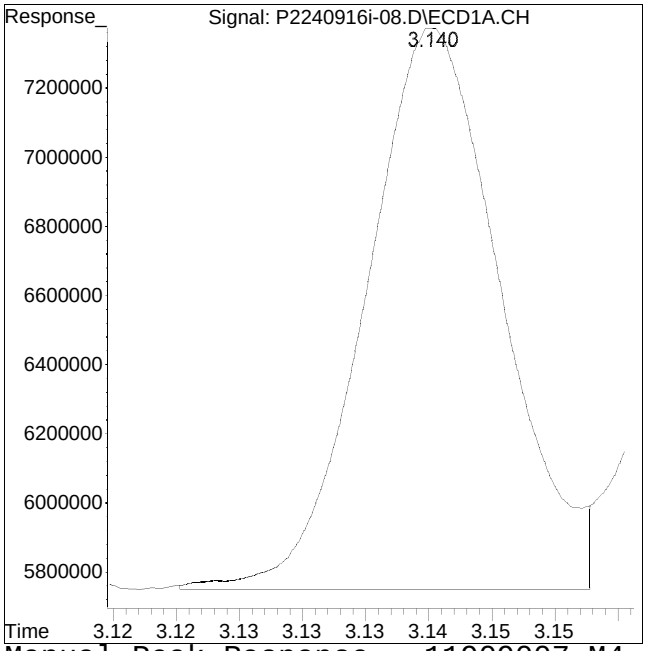
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #11: 1260-3



Original Peak Response = 10938335



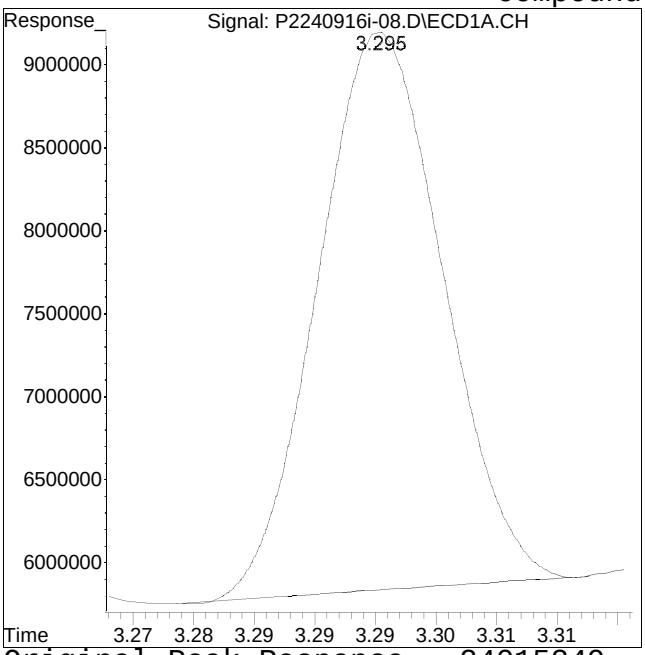
Manual Peak Response = 11909007 M4

M4 = Poor automated baseline construction.

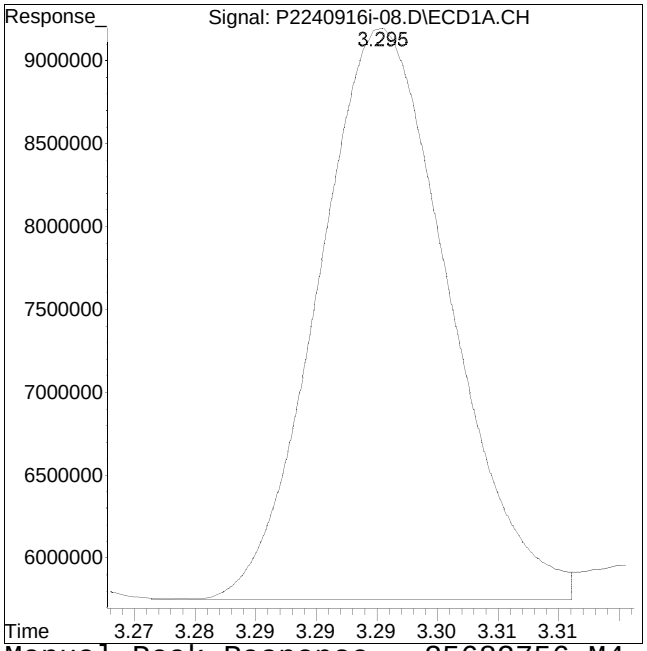
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #12: 1260-4



Original Peak Response = 24015249



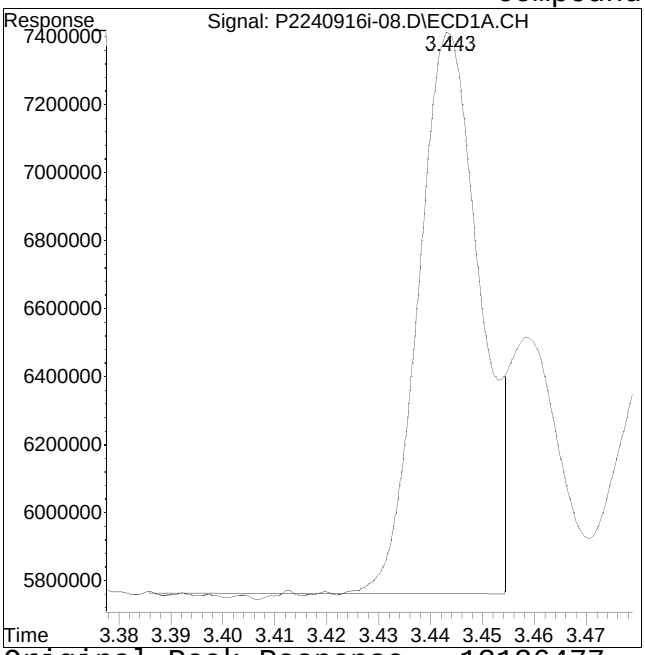
Manual Peak Response = 25682756 M4

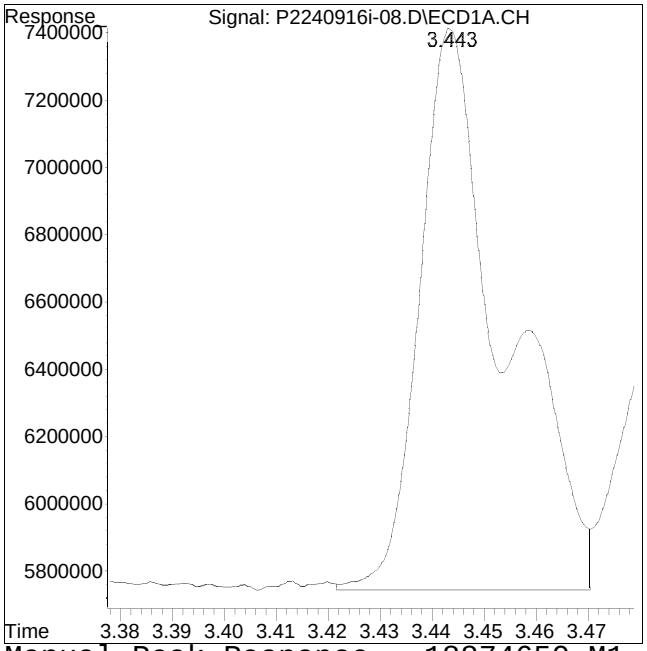
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-08.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:47 pm Instrument : Pest 2
Sample : il31660,42,,pp11790 20PPB Quant Date : 9/16/2024 4:19 pm

Compound #13: 1260-5





Original Peak Response = 13136477 Manual Peak Response = 18874650 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	216.0E6	247.4E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	23701420	31194363	1.889M4	1.847
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.38%#	0.37%#
3) s	Decachlorobi	4.026	4.545	38950596	43606128	3.826	3.759
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.77%#	0.75%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	7287008	9490556	29.170	27.538
5) l1	1016-2	1.742	1.993	16579873	20527486	31.702	29.491M4
6) l1	1016-3	1.930	2.194	30584344	40547738	29.036	29.808
7) l1	1016-4	1.984	2.254	13291546	16412600	28.306	28.349
8) l1	1016-5	2.154	2.465	14893970	12608593	27.402	29.750
	Sum 1016-1			82636742	99586974	145.616	144.936
	Average 1016-1					29.123	28.987
9) l2	1260-1	2.695	3.073	19320420	26215729	28.174	29.264
10) l2	1260-2	2.825	3.174	29577395	29956727	29.692	28.863
11) l2	1260-3	3.140	3.566	17759471	24127405	29.713	29.179
12) l2	1260-4	3.295	3.695	38348158	47949577	29.629M4	28.723
13) l2	1260-5	3.443	3.897	28327981	33953657	29.791M1	29.646
	Sum 1260-1			133.3E6	162.2E6	NoCal	NoCal D
	Average 1260-1					29.400	29.135

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D.	N.D.
20) l4	1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D.	N.D.
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

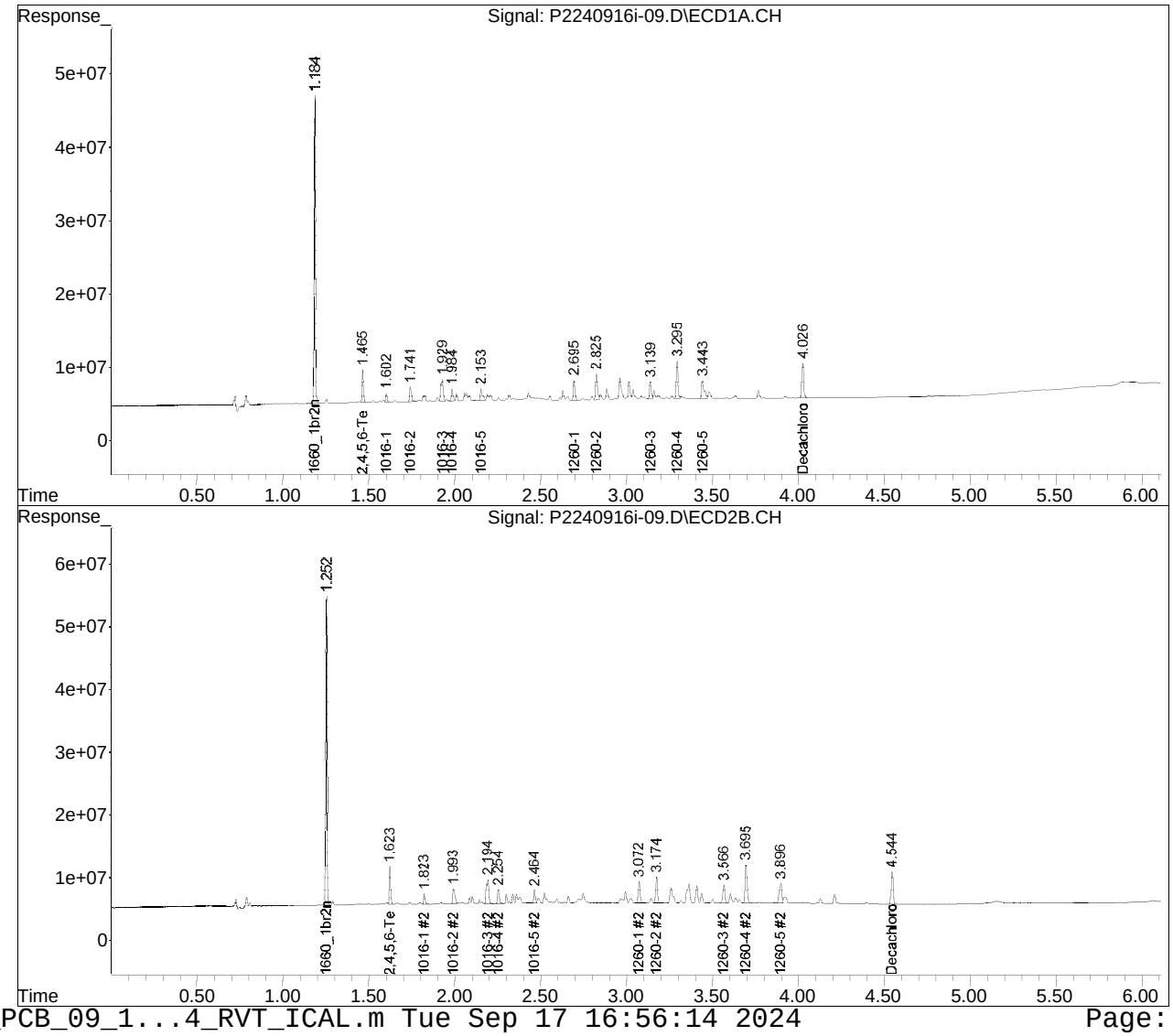
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 3:55 pm
Operator : pest2:kb/sdc
Sample : il41660,42,,pp11790 30PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:17:31 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:12:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

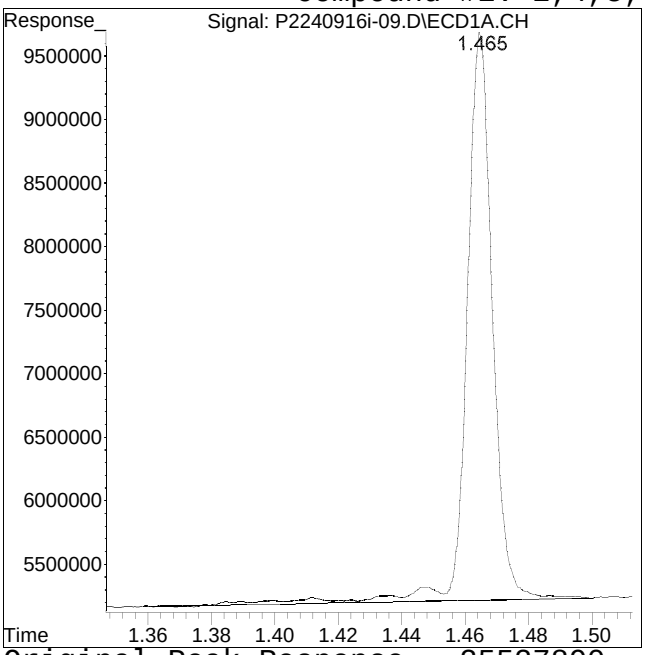
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



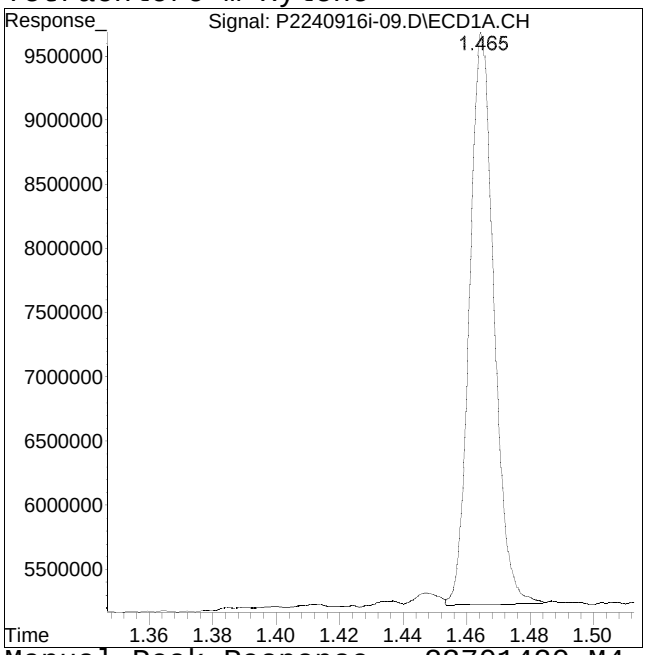
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 25527890



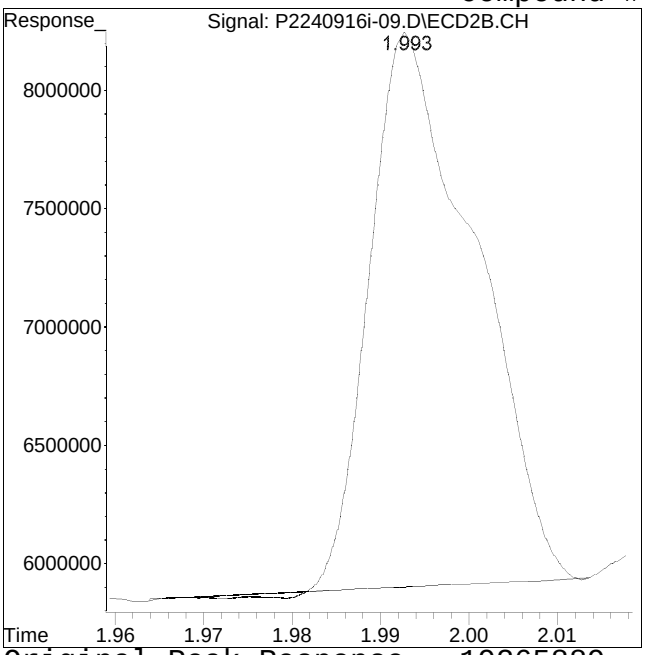
Manual Peak Response = 23701420 M4

M4 = Poor automated baseline construction.

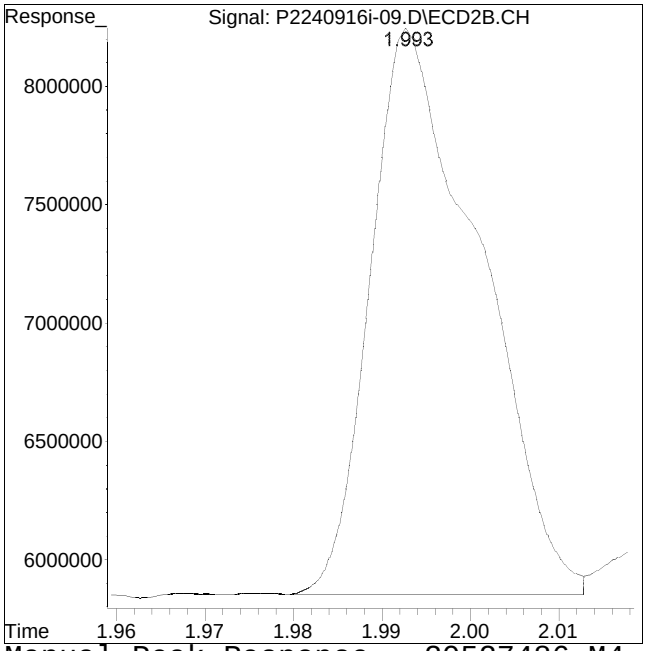
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #56: 1016-2 #2



Original Peak Response = 19265889



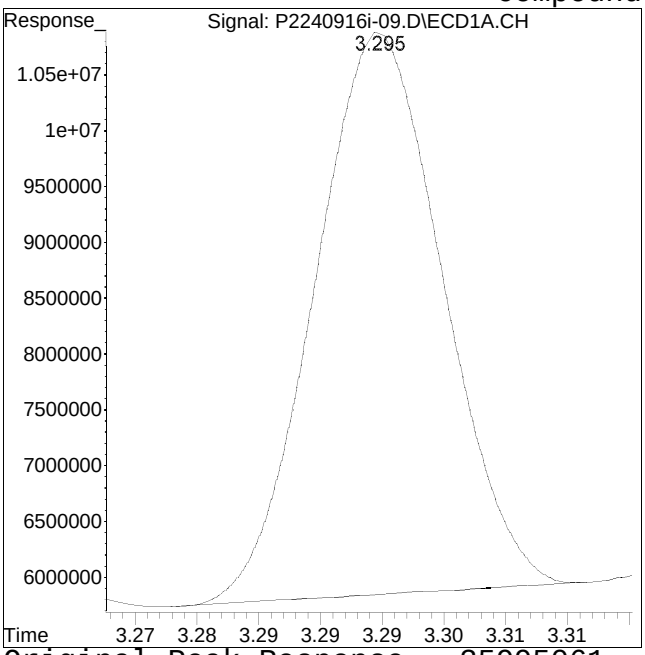
Manual Peak Response = 20527486 M4

M4 = Poor automated baseline construction.

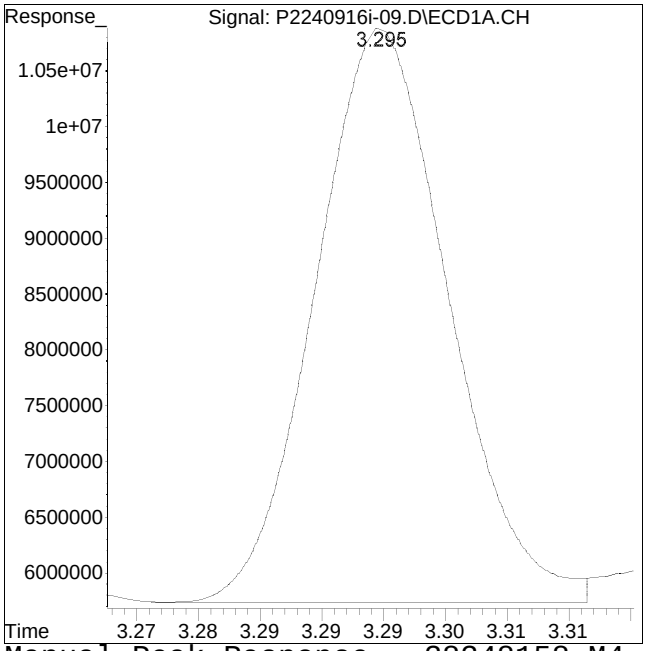
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #12: 1260-4



Original Peak Response = 35995061



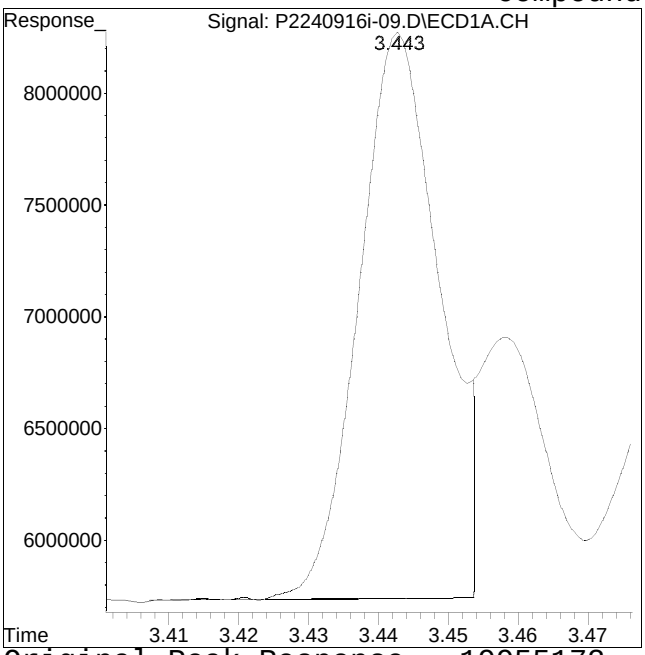
Manual Peak Response = 38348158 M4

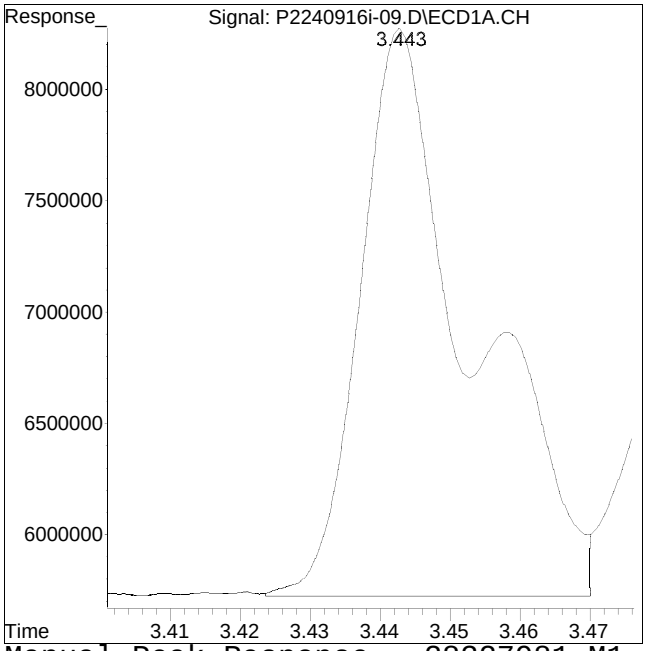
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-09.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 3:55 pm Instrument : Pest 2
Sample : il41660,42,,pp11790 30PPB Quant Date : 9/16/2024 4:17 pm

Compound #13: 1260-5





Original Peak Response = 19955172 Manual Peak Response = 28327981 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	216.4E6	249.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	31028289	41234103	2.471	2.385
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.49%#	0.48%#
3) s	Decachlorobi	4.026	4.544	51601040	56755220	4.826	4.543
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.97%#	0.91%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	9304445	12151923	37.122	36.165
5) l1	1016-2	1.742	1.994	20984858	27943430	38.015	40.159
6) l1	1016-3	1.930	2.194	39280097	52100559	37.879	36.222
7) l1	1016-4	1.984	2.254	16995850	21059831	38.267	36.078
8) l1	1016-5	2.154	2.465	19236393	16893873	38.583	37.107
	Sum 1016-1			105.8E6	130.1E6	189.865	185.732
	Average 1016-1					37.973	37.146
9) l2	1260-1	2.695	3.073	25459305	33045513	37.479	36.494
10) l2	1260-2	2.825	3.175	39329833	38676250	38.511	36.078
11) l2	1260-3	3.140	3.566	24327242	31748249	41.111	36.463
12) l2	1260-4	3.295	3.696	51329323	63121572	38.676M4	37.732
13) l2	1260-5	3.443	3.897	36401098	44712642	37.610M1	37.354
	Sum 1260-1			176.8E6	211.3E6	NoCal	NoCal D
	Average 1260-1					38.677	36.824
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

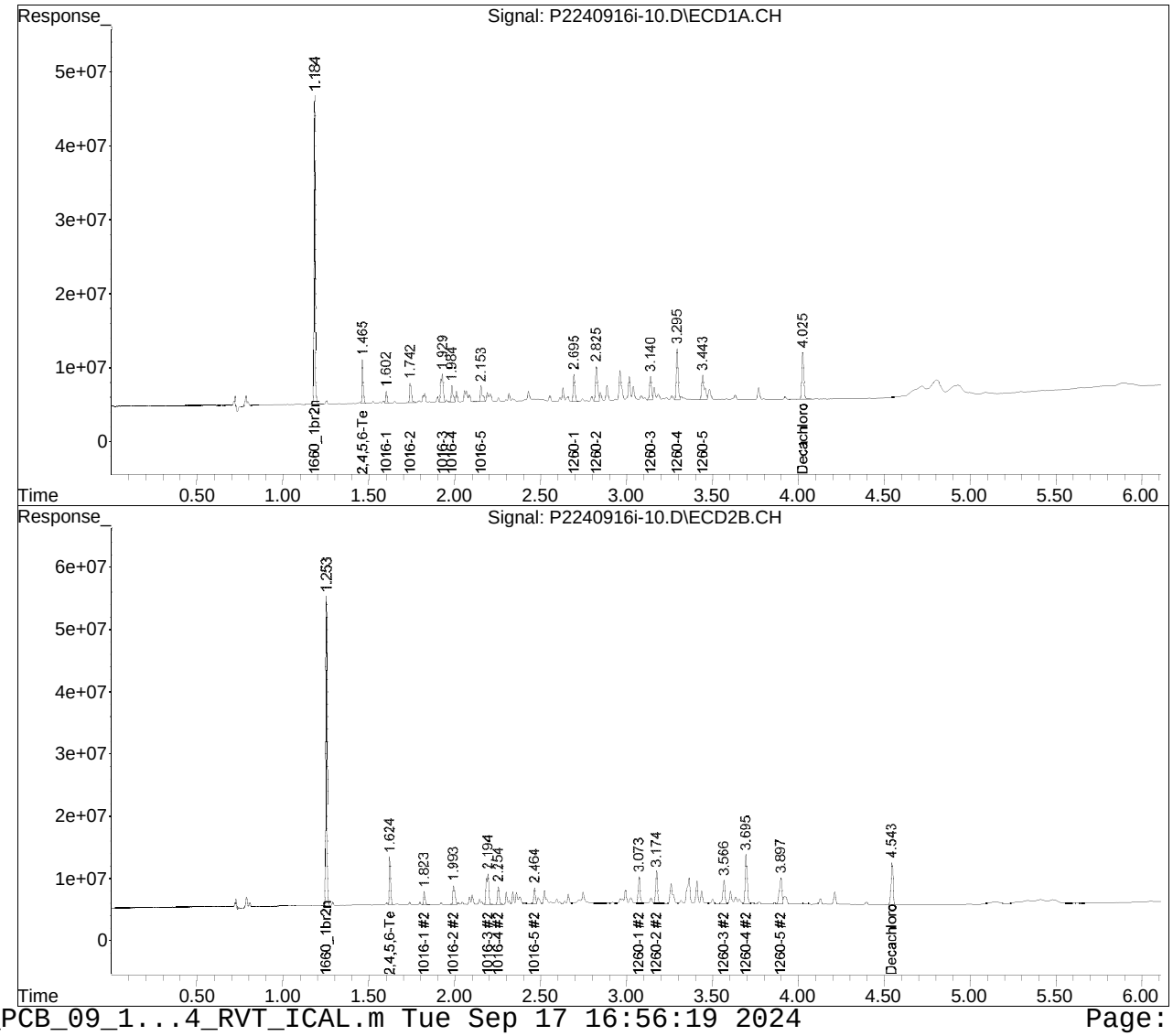
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:04 pm
Operator : pest2:kb/sdc
Sample : il51660,42,,pp11790 40PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:28:47 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:28:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

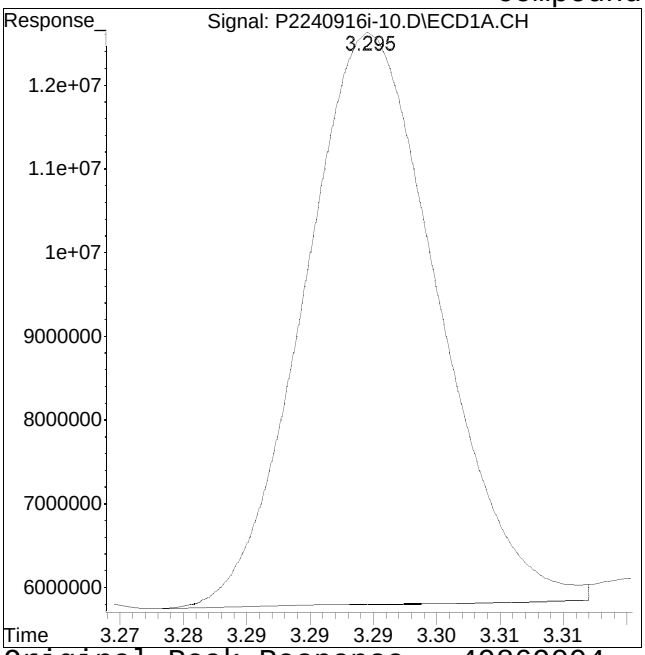
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



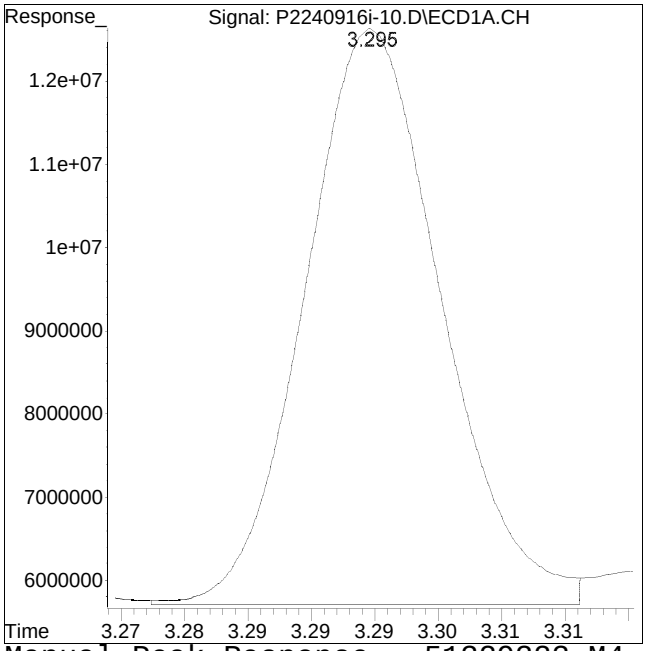
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-10.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:04 pm Instrument : Pest 2
Sample : il51660,42,,pp11790 40PPB Quant Date : 9/16/2024 4:28 pm

Compound #12: 1260-4



Original Peak Response = 49869094



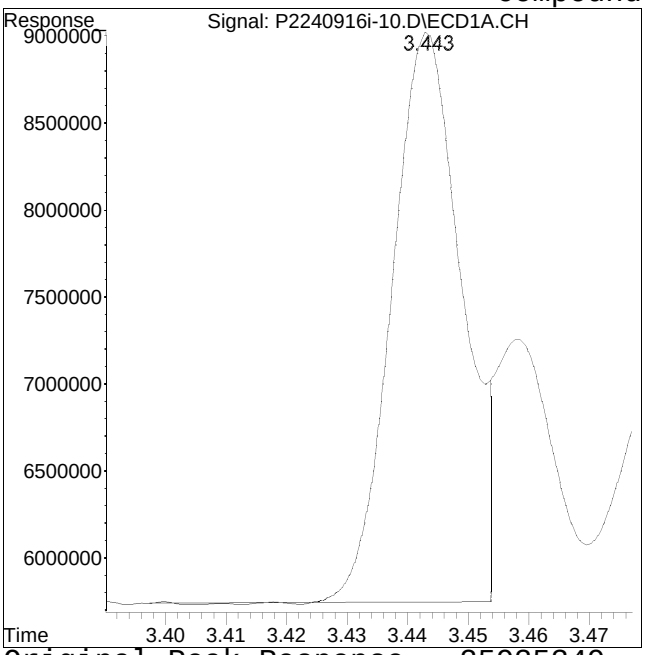
Manual Peak Response = 51329323 M4

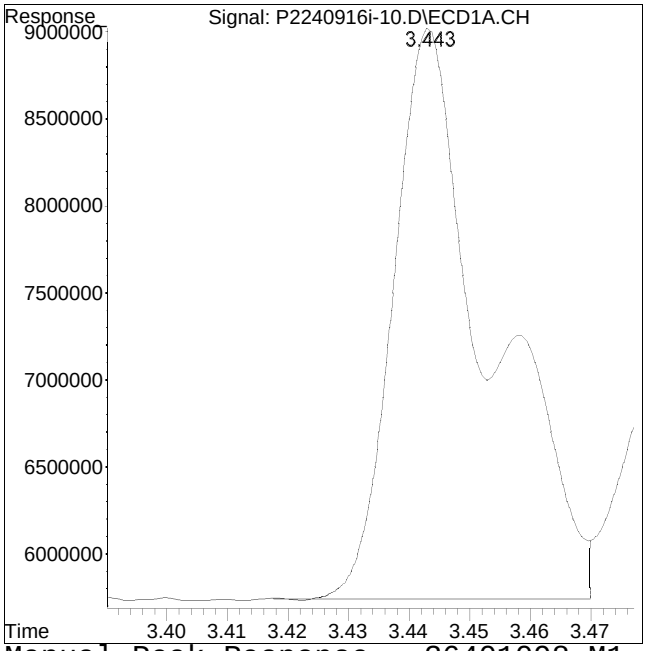
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-10.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:04 pm Instrument : Pest 2
Sample : il51660,42,,pp11790 40PPB Quant Date : 9/16/2024 4:28 pm

Compound #13: 1260-5





Original Peak Response = 25935349 Manual Peak Response = 36401098 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.254	213.0E6	248.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	39428033	52397795	3.212M4	3.080
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.64%#	0.62%#
3) s	Decachlorobi	4.025	4.546	63094250	69128698	6.065	5.673
	Spiked Amount 500.000	Range 30 - 150		Recovery =		1.21%#	1.13%#
	Target Compounds						
4) l1	1016-1	1.602	1.824	11776281	15111645	48.430	45.952
5) l1	1016-2	1.742	1.994	25061708	34577252	46.588	49.761
6) l1	1016-3	1.929	2.194	50302979	65581605	49.811	46.574
7) l1	1016-4	1.984	2.255	20972386	26755739	48.393	46.855
8) l1	1016-5	2.153	2.465	23796597	21258213	48.837	47.482
	Sum 1016-1			131.9E6	163.3E6	242.057	236.624
	Average 1016-1					48.411	47.325
9) l2	1260-1	2.695	3.073	32210793	44682243	48.789	50.335
10) l2	1260-2	2.824	3.175	49517504	52152053	49.629	49.729
11) l2	1260-3	3.139	3.566	30106707	42000177	51.404	49.212
12) l2	1260-4	3.295	3.696	63286689	79371969	48.769	48.094
13) l2	1260-5	3.442	3.897	45478274	56662066	48.316M1	48.076
	Sum 1260-1			220.6E6	274.9E6	NoCal	NoCal D
	Average 1260-1					49.382	49.089
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D.	N.D.
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

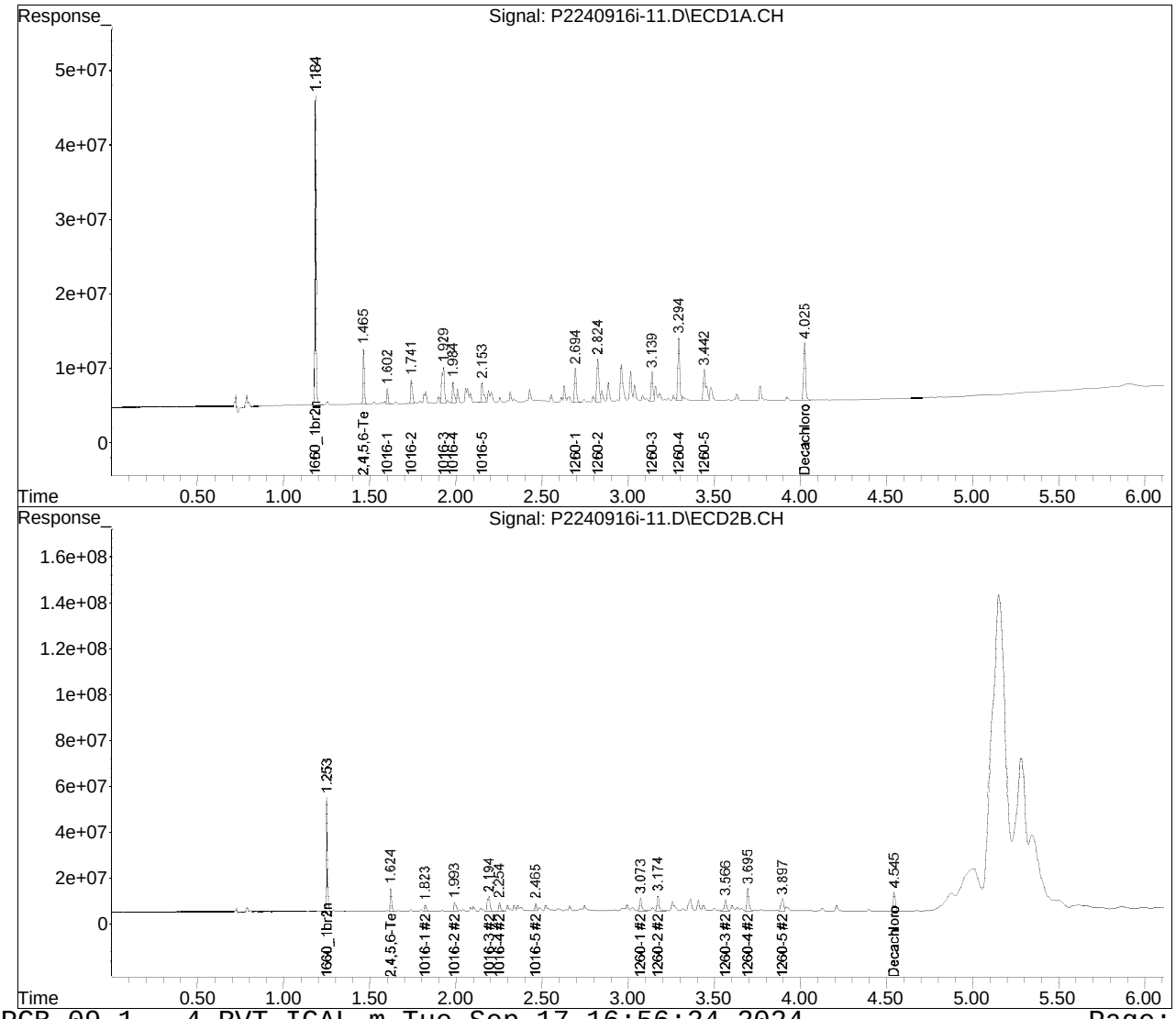
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:13 pm
Operator : pest2:kb/sdc
Sample : il61660,42,,pp11790 50PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:30:03 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:29:49 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

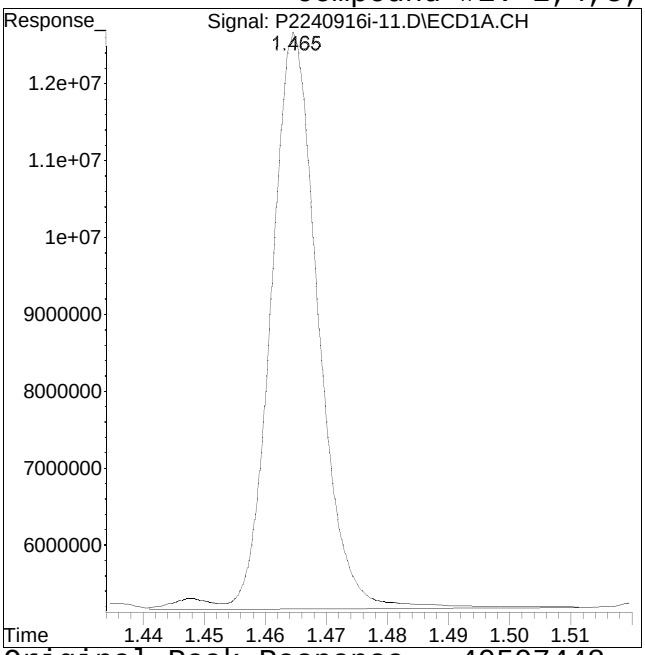
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

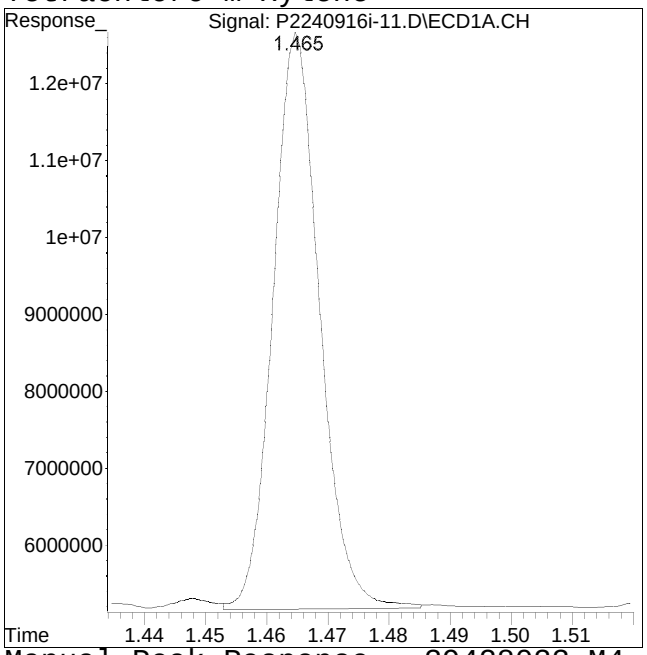


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-11.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:13 pm Instrument : Pest 2
Sample : il61660,42,,pp11790 50PPB Quant Date : 9/16/2024 4:30 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



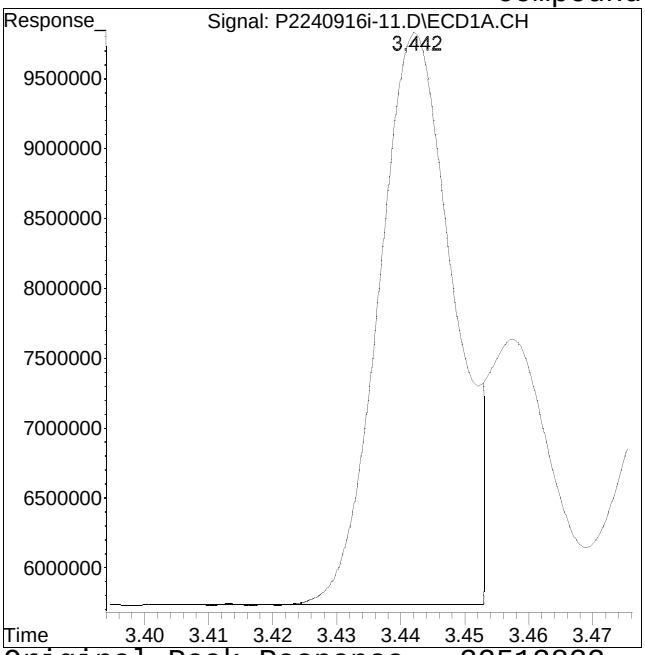


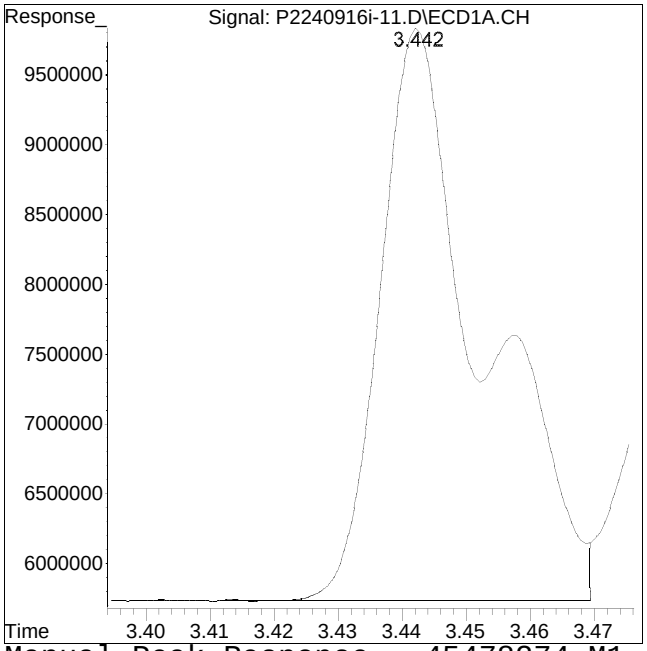
Original Peak Response = 40507448 Manual Peak Response = 39428033 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-11.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:13 pm Instrument : Pest 2
Sample : il61660,42,,pp11790 50PPB Quant Date : 9/16/2024 4:30 pm

Compound #13: 1260-5





Original Peak Response = 32513832 Manual Peak Response = 45478274 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.253	210.7E6	240.5E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	76441607	96600800	6.292	5.904
Spiked Amount	500.000	Range 30 - 150		Recovery =		1.26%#	1.18%#
3) s	Decachlorobi	4.027	4.544	119.4E6	128.5E6	11.710	11.107
Spiked Amount	500.000	Range 30 - 150		Recovery =		2.34%#	2.22%#
	Target Compounds						
4) l1	1016-1	1.603	1.824	22017271	28864311	92.028	91.929
5) l1	1016-2	1.743	1.994	47238846	64270248	89.804	95.644
6) l1	1016-3	1.931	2.195	95325099	123.2E6	95.495	91.422
7) l1	1016-4	1.985	2.255	38810588	49683299	91.030	90.850
8) l1	1016-5	2.155	2.465	42584511	42071374	88.703	97.915
Sum	1016-1			246.0E6	308.1E6	457.061	467.760
Average	1016-1					91.412	93.552
9) l2	1260-1	2.696	3.073	61018752	75472461	93.824	87.748
10) l2	1260-2	2.826	3.175	93199351	89344045	94.559	88.104
11) l2	1260-3	3.141	3.566	57022126	75028500	97.976	91.074
12) l2	1260-4	3.296	3.695	123.5E6	145.4E6	96.592M4	91.595
13) l2	1260-5	3.444	3.896	87596965	107.9E6	94.622M1	95.246
Sum	1260-1			422.3E6	493.2E6	NoCal	NoCal D
Average	1260-1					95.514	90.753
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

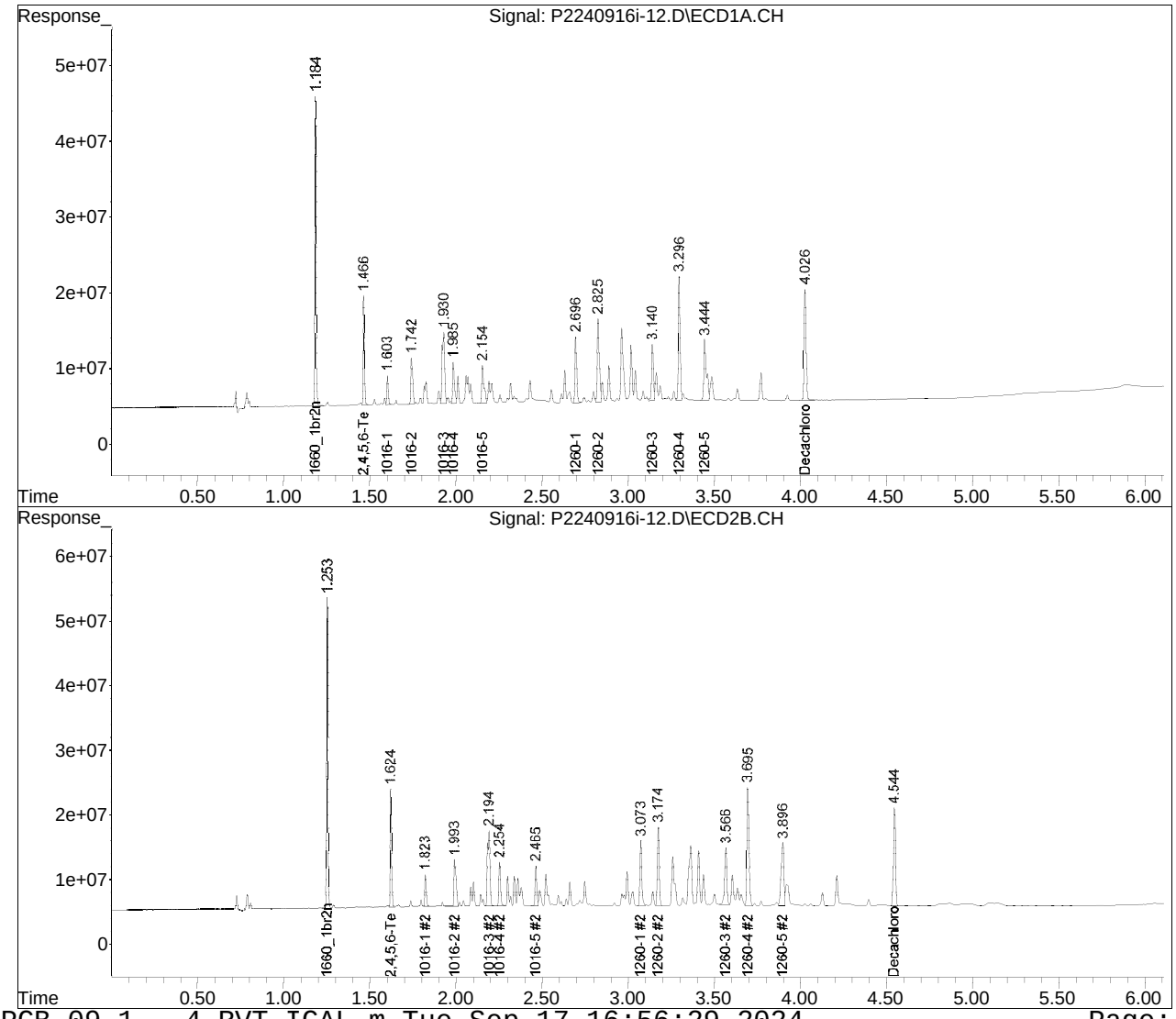
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:22 pm
Operator : pest2:kb/sdc
Sample : il71660,42,,pp11790 100PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:31:08 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:30:56 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

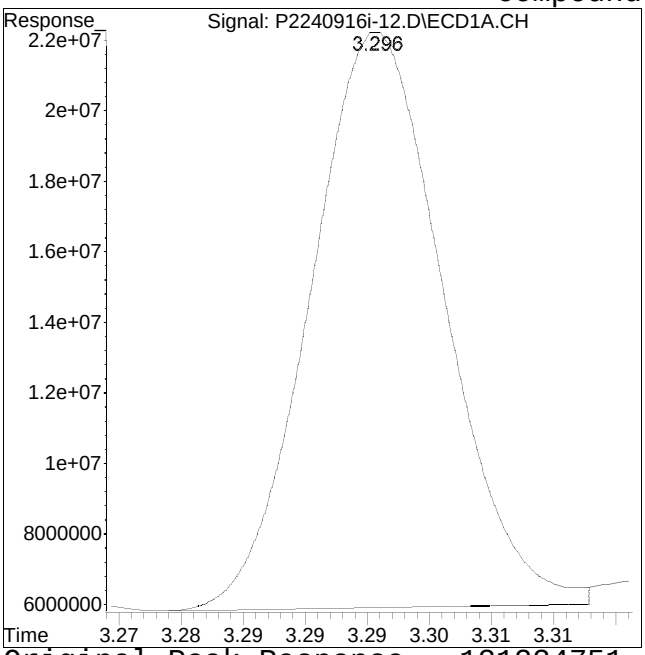
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



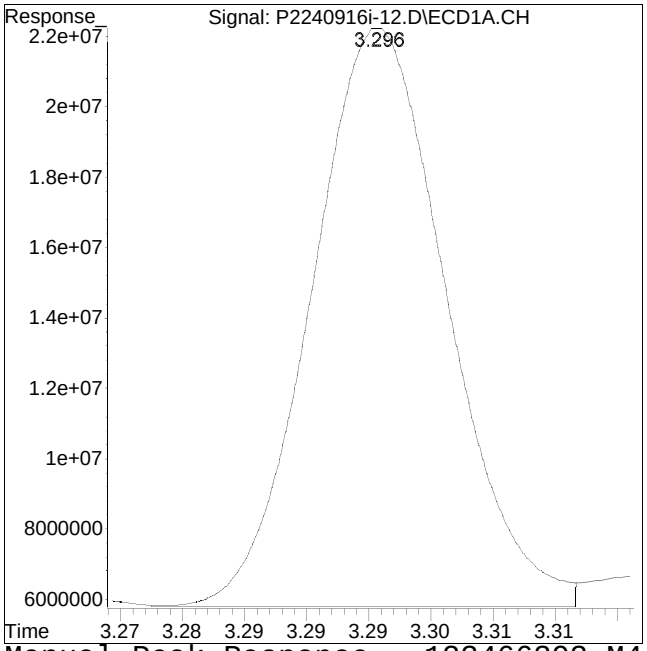
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-12.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:22 pm Instrument : Pest 2
Sample : il71660,42,,pp11790 100PPBQuant Date : 9/16/2024 4:31 pm

Compound #12: 1260-4



Original Peak Response = 121224751



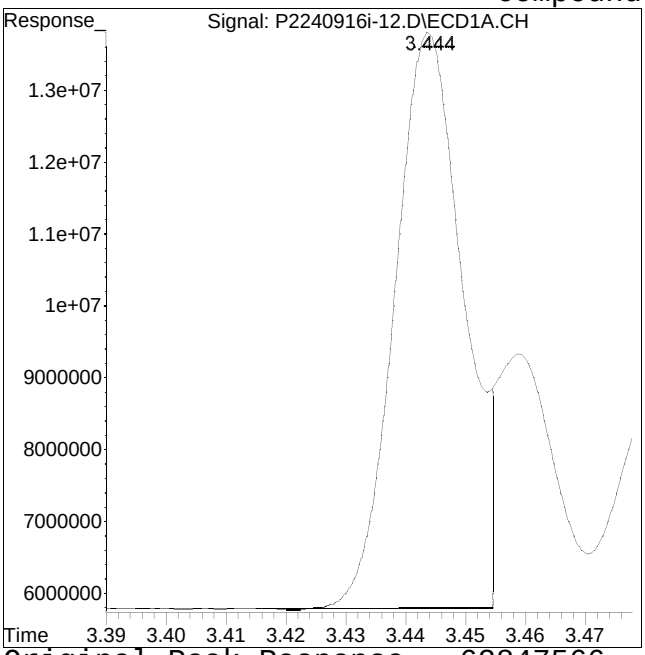
Manual Peak Response = 123466393 M4

M4 = Poor automated baseline construction.

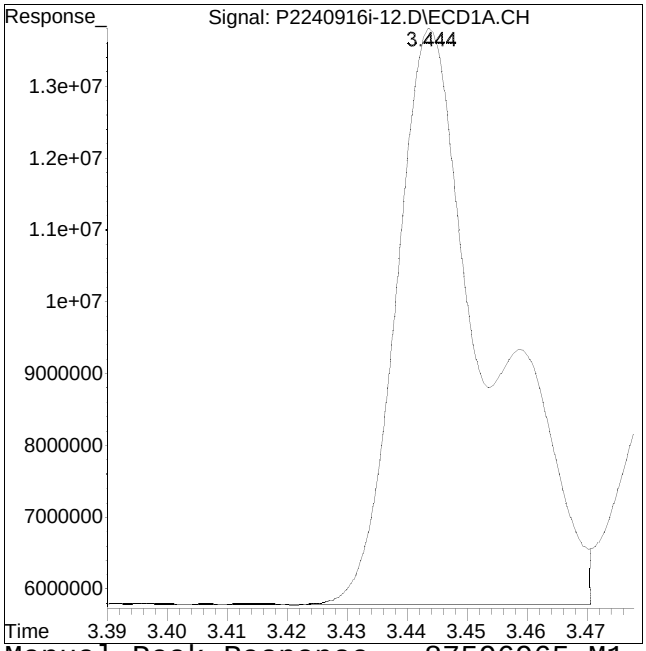
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-12.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:22 pm Instrument : Pest 2
Sample : il71660,42,,pp11790 100PPBQuant Date : 9/16/2024 4:31 pm

Compound #13: 1260-5



Original Peak Response = 62847566



Manual Peak Response = 87596965 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	209.4E6	247.1E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	198.1E6	243.7E6	16.440	14.662
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.29%#	2.93%#
3) s	Decachlorobi	4.026	4.544	289.5E6	295.4E6	28.907	25.336
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.78%#	5.07%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	53816714	66436867	228.892	208.375
5) l1	1016-2	1.742	1.994	114.9E6	146.9E6	222.931	214.174
6) l1	1016-3	1.929	2.194	242.2E6	290.9E6	245.615	212.759
7) l1	1016-4	1.984	2.254	101.9E6	116.8E6	243.501	210.701
8) l1	1016-5	2.153	2.465	107.4E6	96028481	228.639	218.205
	Sum 1016-1			620.1E6	717.1E6	1169.577	1064.213
Average	1016-1					233.915	212.843
9) l2	1260-1	2.695	3.073	148.2E6	178.2E6	231.225	205.306
10) l2	1260-2	2.825	3.175	225.8E6	210.2E6	232.254	205.300
11) l2	1260-3	3.140	3.566	143.7E6	171.1E6	249.056	204.767
12) l2	1260-4	3.295	3.696	314.4E6	344.3E6	248.663	213.721
13) l2	1260-5	3.443	3.897	218.3E6	240.1E6	239.061	207.625
	Sum 1260-1			1050.4E6	1143.9E6	NoCal	NoCal D
Average	1260-1					240.052	207.344
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

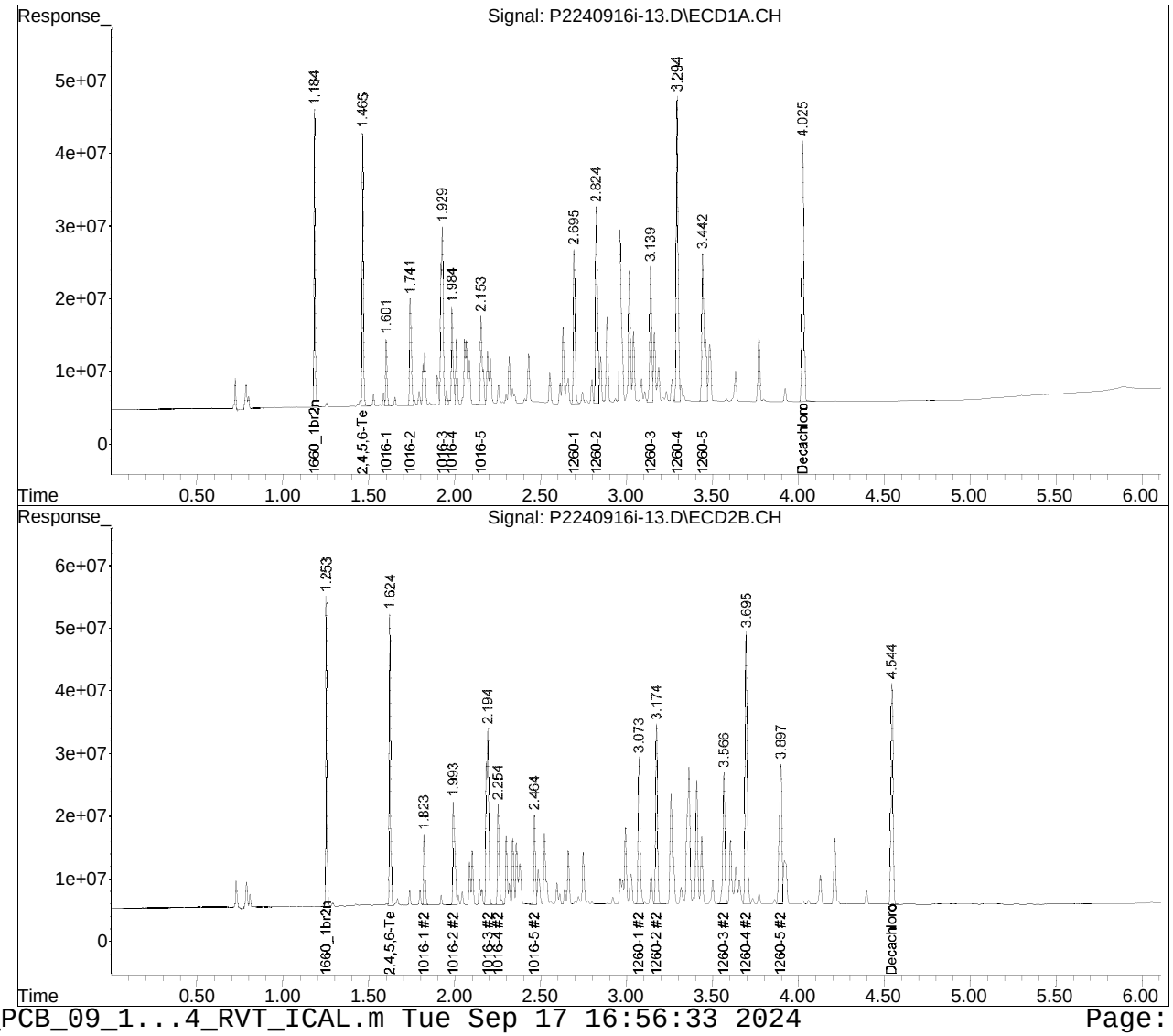
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:30 pm
Operator : pest2:kb/sdc
Sample : il81660,42,,pp11790 250PPB
Misc : WG1972777,,
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:56:36 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:32:03 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-13.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:30 pm Instrument : Pest 2
Sample : il81660,42,,pp11790 250PPBQuant Date : 9/16/2024 4:56 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	206.3E6	240.6E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	394.6E6	479.5E6	33.136	29.939
Spiked Amount	500.000	Range 30 - 150		Recovery =		6.63%#	5.99%#
3) s	Decachlorobi	4.028	4.546	556.8E6	565.3E6	57.126	51.121
Spiked Amount	500.000	Range 30 - 150		Recovery =		11.43%#	10.22%#
	Target Compounds						
4) l1	1016-1	1.603	1.823	102.8E6	122.9E6	448.557	404.315
5) l1	1016-2	1.743	1.994	219.3E6	268.6E6	437.984	409.461
6) l1	1016-3	1.930	2.195	477.4E6	547.7E6	492.570	419.329
7) l1	1016-4	1.985	2.255	196.6E6	217.3E6	478.609	410.689
8) l1	1016-5	2.155	2.465	206.7E6	173.8E6	451.741	412.201
Sum	1016-1			1202.8E6	1330.4E6	2309.461	2055.995
Average	1016-1					461.892	411.199
9) l2	1260-1	2.696	3.074	290.4E6	332.2E6	464.353	402.053
10) l2	1260-2	2.826	3.176	442.3E6	394.0E6	466.004	404.192
11) l2	1260-3	3.141	3.567	279.4E6	325.4E6	491.884	409.295
12) l2	1260-4	3.297	3.696	615.3E6	665.2E6	494.292	432.005
13) l2	1260-5	3.444	3.898	426.7E6	461.7E6	476.947	418.995
Sum	1260-1			2054.1E6	2178.6E6	NoCal	NoCal D
Average	1260-1					478.696	413.308
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

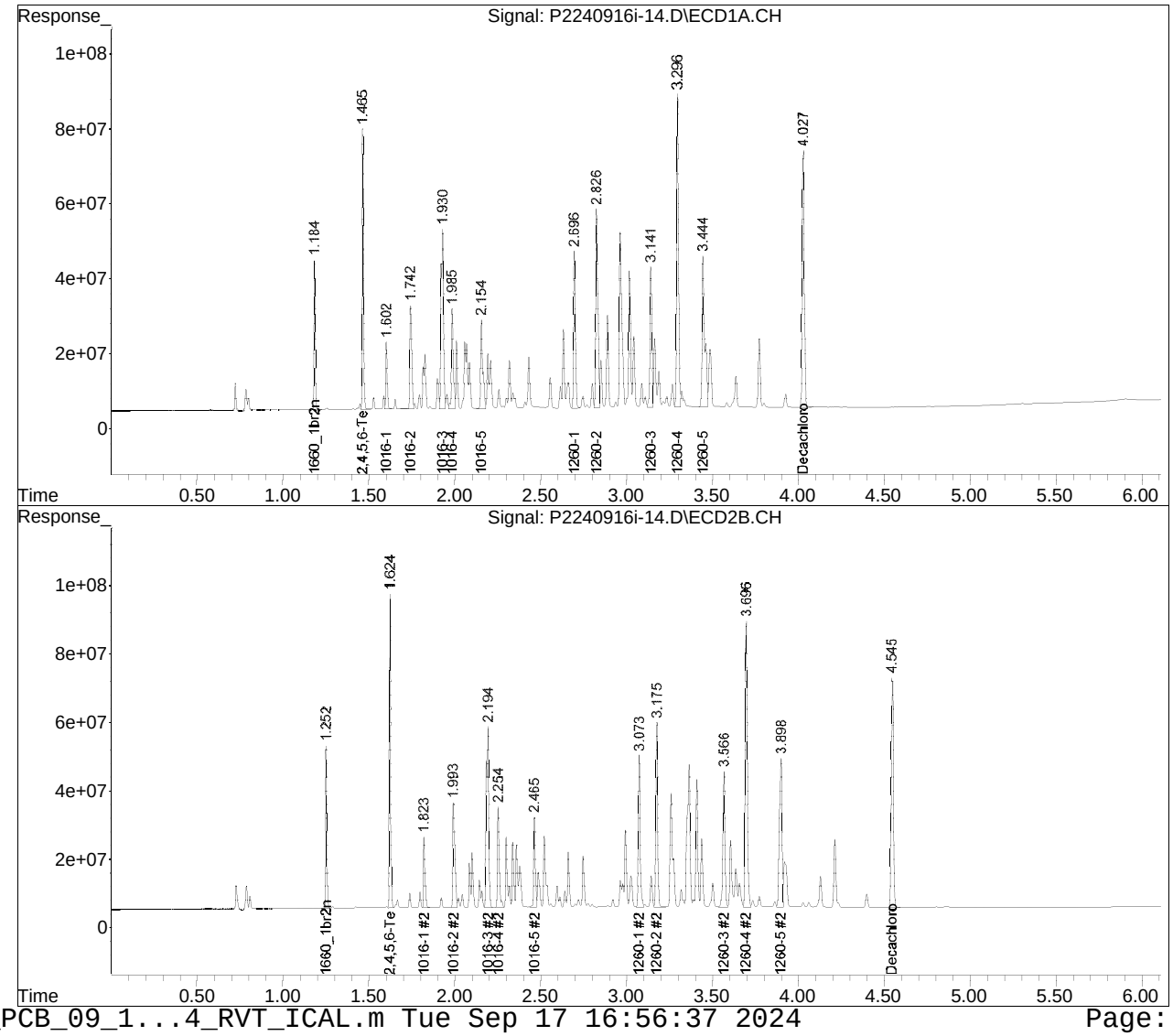
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:39 pm
Operator : pest2:kb/sdc
Sample : il91660,42,,pp11790 500PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:58:10 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:57:57 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-14.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 4:39 pm	Instrument	: Pest 2
Sample	: il91660,42,,pp11790 500PPB	Quant Date	: 9/16/2024 4:58 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	213.9E6	249.2E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	804.8E6	964.9E6	64.917	58.578
	Spiked Amount 500.000	Range 30 - 150		Recovery =		12.98%#	11.72%#
3) s	Decachlorobi	4.027	4.545	1134.0E6	1148.2E6	113.551	102.519
	Spiked Amount 500.000	Range 30 - 150		Recovery =		22.71%#	20.50%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	200.2E6	235.5E6	852.356	764.041
5) l1	1016-2	1.742	1.994	431.5E6	519.6E6	842.627M3	780.292
6) l1	1016-3	1.930	2.194	958.5E6	1090.3E6	955.450	820.441
7) l1	1016-4	1.984	2.254	392.5E6	428.8E6	925.916	797.902
8) l1	1016-5	2.154	2.465	410.0E6	345.4E6	873.459	806.498
	Sum 1016-1			2392.8E6	2619.6E6	4449.807	3969.173
	Average 1016-1					889.961	793.835
9) l2	1260-1	2.695	3.073	588.5E6	655.9E6	914.891	783.269
10) l2	1260-2	2.825	3.175	898.4E6	783.6E6	919.719	792.833
11) l2	1260-3	3.140	3.566	575.2E6	648.6E6	978.288	803.666
12) l2	1260-4	3.296	3.696	1278.5E6	1348.5E6	991.785	858.288
13) l2	1260-5	3.443	3.897	893.2E6	933.2E6	967.764M1	832.359
	Sum 1260-1			4233.8E6	4369.8E6	NoCal	NoCal D
	Average 1260-1					954.489	814.083
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

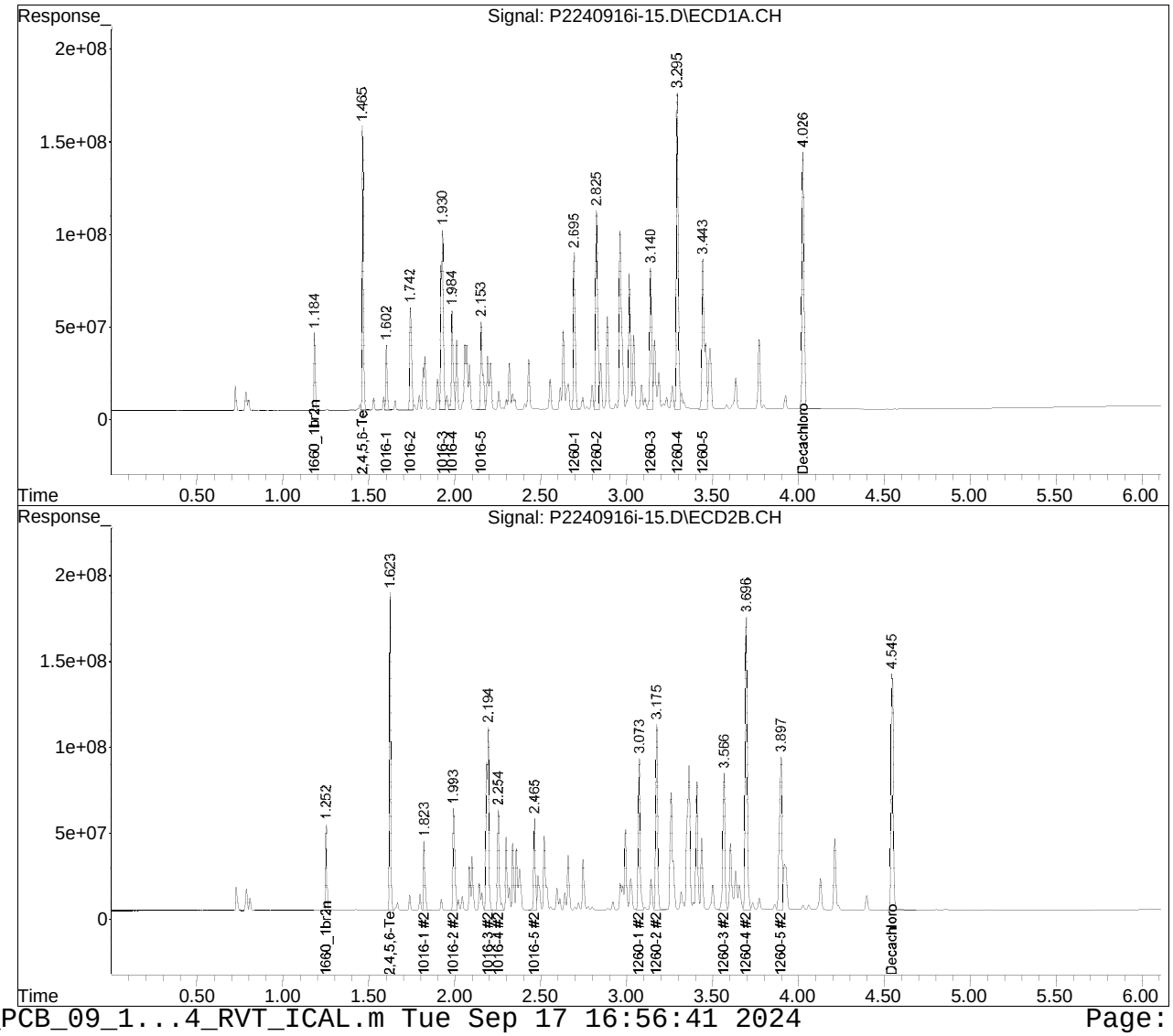
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:48 pm
Operator : pest2:kb/sdc
Sample : il101660,42,,pp11790 1000PPB
Misc : WG1972777,, (Sig #1); vyper (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 16:59:04 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:58:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

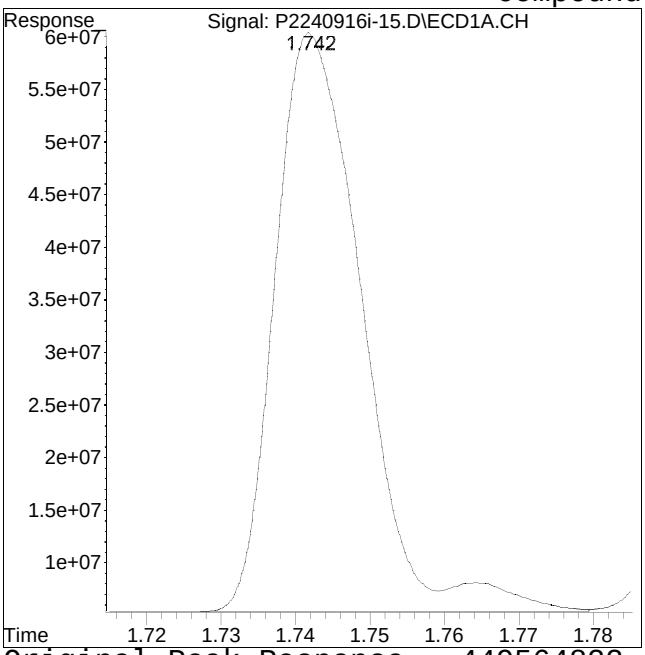
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

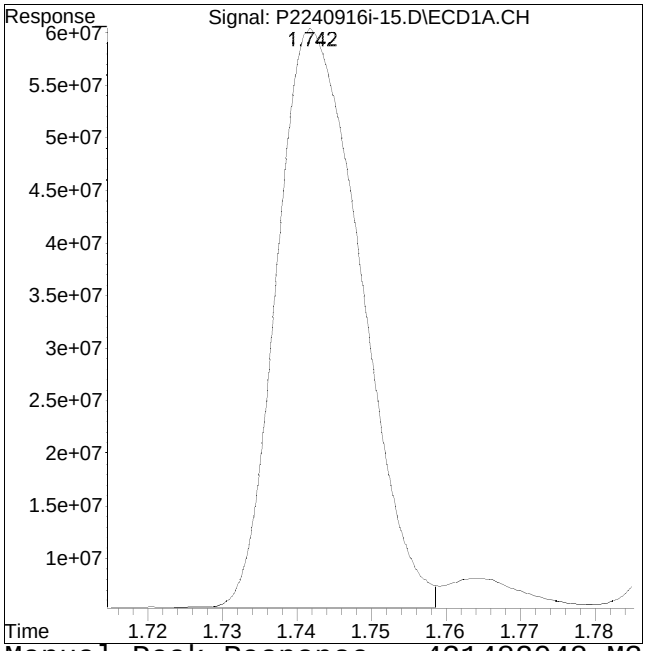


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-15.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:48 pm Instrument : Pest 2
Sample : il101660,42,,pp11790 1000PQuant Date : 9/16/2024 4:59 pm

Compound #5: 1016-2



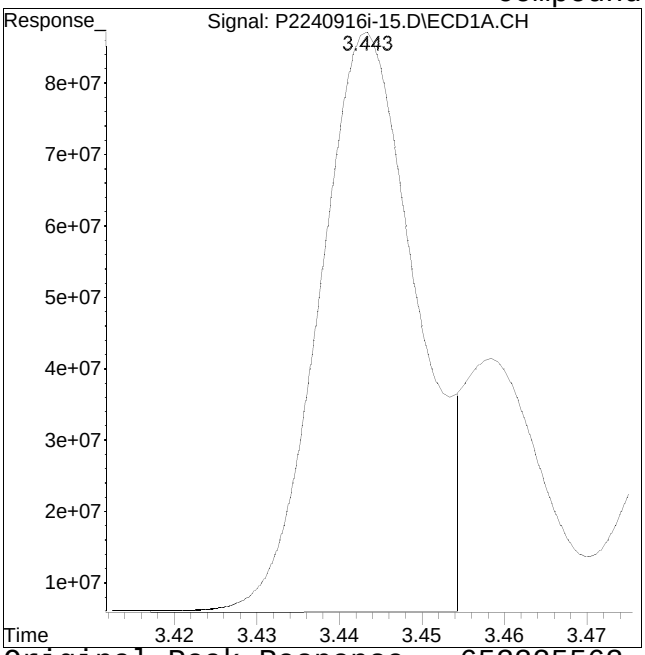


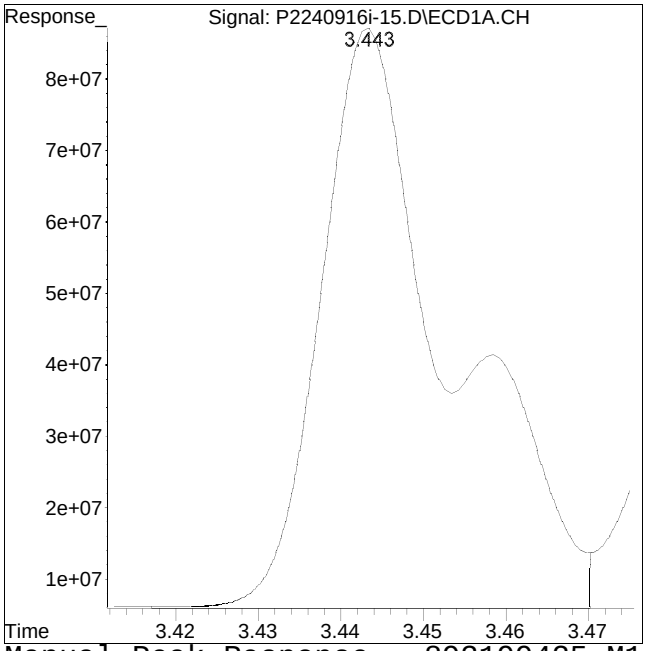
Original Peak Response = 449564822 Manual Peak Response = 431482048 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-15.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:48 pm Instrument : Pest 2
Sample : il101660,42,,pp11790 1000PQuant Date : 9/16/2024 4:59 pm

Compound #13: 1260-5





Original Peak Response = 653325563 Manual Peak Response = 893199425 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.427	1.7	96	0.00
3	s	Decachlorobiphenyl		1.154	1.071	7.2	98	0.00
4	l1	1016-1		0.027	0.024	11.1	94	0.00
5	l1	1016-2		0.059	0.057	3.4	103	0.00
6	l1	1016-3		0.117	0.120	-2.6	103	0.00
7	l1	1016-4		0.049	0.050	-2.0	102	0.00
8	l1	1016-5		0.054	0.050	7.4	97	0.00
9	l2	1260-1		0.075	0.075	0.0	105	0.00
10	l2	1260-2		0.113	0.118	-4.4	108	0.00
11	l2	1260-3		0.069	0.063	8.7	90	0.00
12	l2	1260-4		0.151	0.135	10.6	89	0.00
13	l2	1260-5		0.108	0.099	8.3	94	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.471	10.2	93	0.00
3	s	Decachlorobiphenyl		1.101	0.971	11.8	102	0.00
4	l1	1016-1		0.030	0.026	13.3	96	0.00
5	l1	1016-2		0.065	0.062	4.6	103	0.00
6	l1	1016-3		0.131	0.125	4.6	104	0.00
7	l1	1016-4		0.053	0.050	5.7	104	0.00
8	l1	1016-5		0.042	0.040	4.8	101	0.00
9	l2	1260-1		0.082	0.080	2.4	109	0.00
10	l2	1260-2		0.097	0.090	7.2	103	0.00
11	l2	1260-3		0.079	0.067	15.2	95	0.00
12	l2	1260-4		0.155	0.131	15.5	92	0.00
13	l2	1260-5		0.111	0.097	12.6	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
Evaluate Continuing Calibration Report - Not Founds								
14	i	2154_1br2nb	^	1.000	1.000	0.0	0	-1.18#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#
18	l4	1254-1		0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2		0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3		0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4		0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5		0.099	0.000	100.0#	0#	-2.96#
23	i	4268_1br2nb	^	1.000	1.000	0.0	0	-1.18#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1		0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2		0.189	0.000	100.0#	0#	-3.48#
31	l9	1268-3		0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4		0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5		0.467	0.000	100.0#	0#	-3.92#
34	i	1248_1br2nb	^	1.000	1.000	0.0	0	-1.18#
35	l7	1248-1		0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2		0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3		0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4		0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5		0.056	0.000	100.0#	0#	-2.35#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
40	i	3262_1br2nb	^	1.000	1.000	0.0	0	-1.19#
41	l5	1232-1		0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2		0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3		0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4		0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5		0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1		0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2		0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3		0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4		0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5		0.059	0.000	100.0#	0#	-3.77#

Signal #2

14	i	2154_1br2nb	^	1.000	1.000	0.0	0	-1.25#
15	l3	1221-1		0.017	0.000	100.0#	0#	-1.74#
16	l3	1221-2		0.011	0.000	100.0#	0#	-1.80#
17	l3	1221-3		0.040	0.000	100.0#	0#	-1.82#
18	l4	1254-1		0.062	0.000	100.0#	0#	-2.66#
19	l4	1254-2		0.073	0.000	100.0#	0#	-2.75#
20	l4	1254-3		0.109	0.000	100.0#	0#	-2.98#
21	l4	1254-4		0.073	0.000	100.0#	0#	-3.09#
22	l4	1254-5		0.101	0.000	100.0#	0#	-3.36#
23	i	4268_1br2nb	^	1.000	1.000	0.0	0	-1.25#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.82#
25	l6	1242-2		0.048	0.000	100.0#	0#	-1.99#
26	l6	1242-3		0.095	0.000	100.0#	0#	-2.19#
27	l6	1242-4		0.039	0.000	100.0#	0#	-2.25#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   4:56 pm
Operator : pest2:kb/sdc
Sample   : cicv1660,42,, ICV 250 pp11765
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	l6	1242-5		0.031	0.000	100.0#	0#	-2.64#
29	l9	1268-1		0.190	0.000	100.0#	0#	-3.89#
30	l9	1268-2		0.169	0.000	100.0#	0#	-3.92#
31	l9	1268-3		0.141	0.000	100.0#	0#	-4.06#
32	l9	1268-4		0.062	0.000	100.0#	0#	-4.21#
33	l9	1268-5		0.399	0.000	100.0#	0#	-4.40#
34	i	1248_1br2nb	^	1.000	1.000	0.0	0	-1.25#
35	l7	1248-1		0.062	0.000	100.0#	0#	-2.19#
36	l7	1248-2		0.043	0.000	100.0#	0#	-2.34#
37	l7	1248-3		0.053	0.000	100.0#	0#	-2.47#
38	l7	1248-4		0.060	0.000	100.0#	0#	-2.64#
39	l7	1248-5		0.067	0.000	100.0#	0#	-2.66#
40	i	3262_1br2nb	^	1.000	1.000	0.0	0	-1.25#
41	l5	1232-1		0.030	0.000	100.0#	0#	-1.82#
42	l5	1232-2		0.031	0.000	100.0#	0#	-1.99#
43	l5	1232-3		0.060	0.000	100.0#	0#	-2.20#
44	l5	1232-4		0.024	0.000	100.0#	0#	-2.26#
45	l5	1232-5		0.018	0.000	100.0#	0#	-2.64#
46	l8	1262-1		0.073	0.000	100.0#	0#	-3.18#
47	l8	1262-2		0.101	0.000	100.0#	0#	-3.41#
48	l8	1262-3		0.091	0.000	100.0#	0#	-3.57#
49	l8	1262-4		0.174	0.000	100.0#	0#	-3.70#
50	l8	1262-5		0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.253	207.5E6	241.8E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	189.5E6	227.7E6	15.734	14.369
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.15%#	2.87%#
3) s	Decachlorobi	4.026	4.546	284.6E6	300.6E6	29.709	28.227
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.94%#	5.65%#
	Target Compounds						
4) l1	1016-1	1.602	1.823	50606294	63958975	225.388	219.107
5) l1	1016-2	1.742	1.994	118.2E6	150.6E6	241.846	238.413
6) l1	1016-3	1.930	2.195	249.4E6	302.5E6	257.436	238.973
7) l1	1016-4	1.985	2.254	103.5E6	121.2E6	253.545	237.312M3
8) l1	1016-5	2.154	2.465	104.7E6	96973955	232.767	238.013
	Sum 1016-1			626.4E6	735.3E6	1210.982	1171.817
Average	1016-1					242.196	234.363
9) l2	1260-1	2.695	3.073	155.4E6	194.0E6	251.189	244.146
10) l2	1260-2	2.825	3.175	244.6E6	217.1E6	260.221	231.239
11) l2	1260-3	3.140	3.566	130.0E6	163.2E6	228.428	212.615
12) l2	1260-4	3.295	3.696	280.0E6	317.0E6	224.090	210.968
13) l2	1260-5	3.443	3.898	204.9E6	234.4E6	229.547	219.185
	Sum 1260-1			1014.9E6	1125.7E6	NoCal	NoCal D
Average	1260-1					238.695	223.631
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

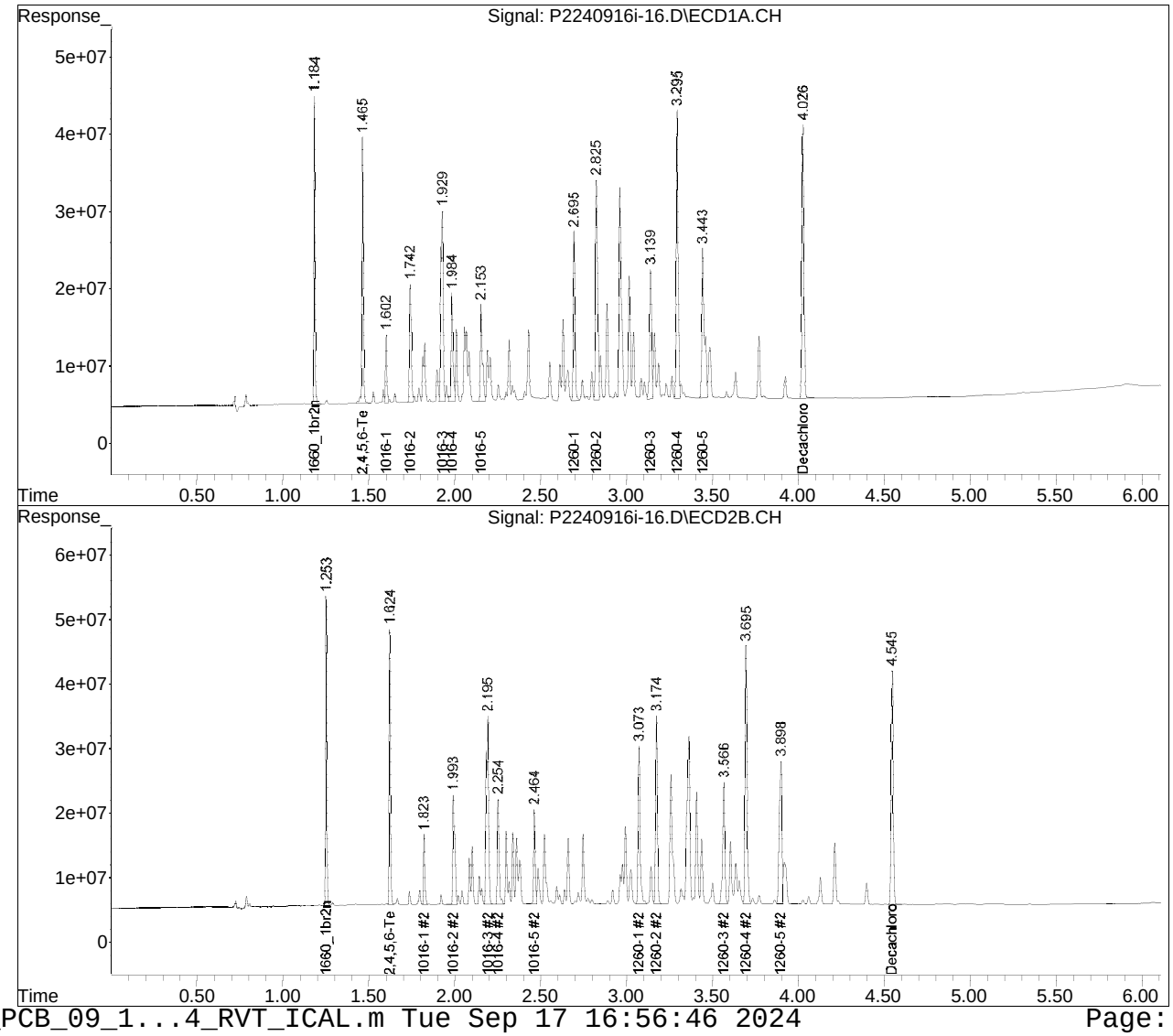
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 4:56 pm
Operator : pest2:kb/sdc
Sample : cicv1660,42,, ICV 250 pp11765
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 16 17:05:53 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Mon Sep 16 16:59:53 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

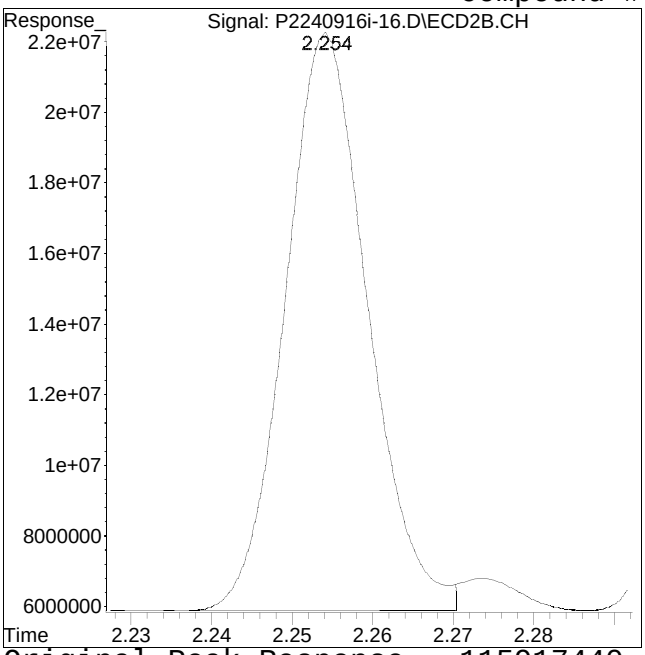
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

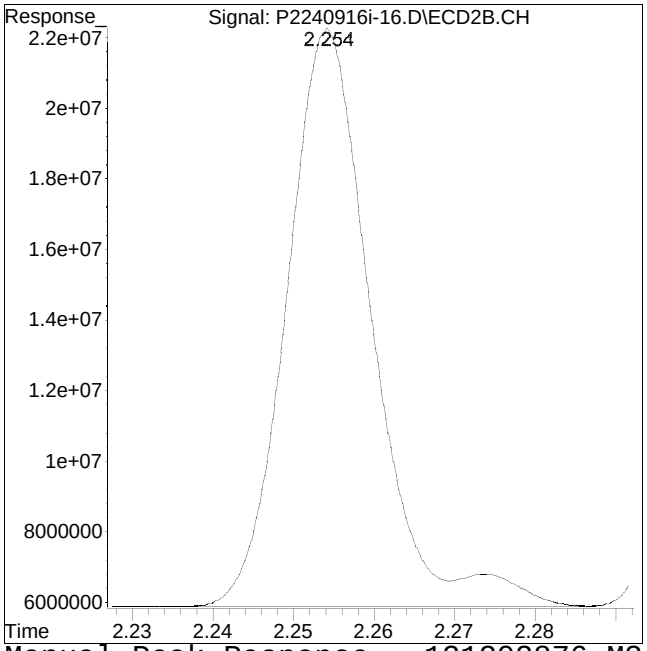


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-16.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 4:56 pm Instrument : Pest 2
Sample : cicv1660,42,, ICV 250 pp11Quant Date : 9/16/2024 5:05 pm

Compound #58: 1016-4 #2





Original Peak Response = 115917440 Manual Peak Response = 121202876 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.185	1.253	215.5E6	246.9E6	25.000	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-1	1.528	1.738	32214968	43006075	250.084	214.878
16) l3	1221-2	1.586	1.798	19872002	27225760	236.799	241.463

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	1.603	1.824	79473918	98685926	232.143	231.833
Sum	1221-1			131.6E6	168.9E6	719.026	688.175
Average	1221-1					239.675	229.392
18) l4	1254-1	2.318	2.662	113.1E6	153.6E6	251.864	235.750
19) l4	1254-2	2.430	2.749	201.2E6	180.1E6	266.589	243.450
20) l4	1254-3	2.613	2.978	218.2E6	267.9E6	240.465	225.681
21) l4	1254-4	2.743	3.089	153.9E6	179.0E6	240.276	215.193
22) l4	1254-5	2.964	3.364	212.7E6	248.8E6	235.784	244.611
Sum	1254-1			899.2E6	1029.3E6	NoCal	NoCal D
Average	1254-1					246.995	232.937
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

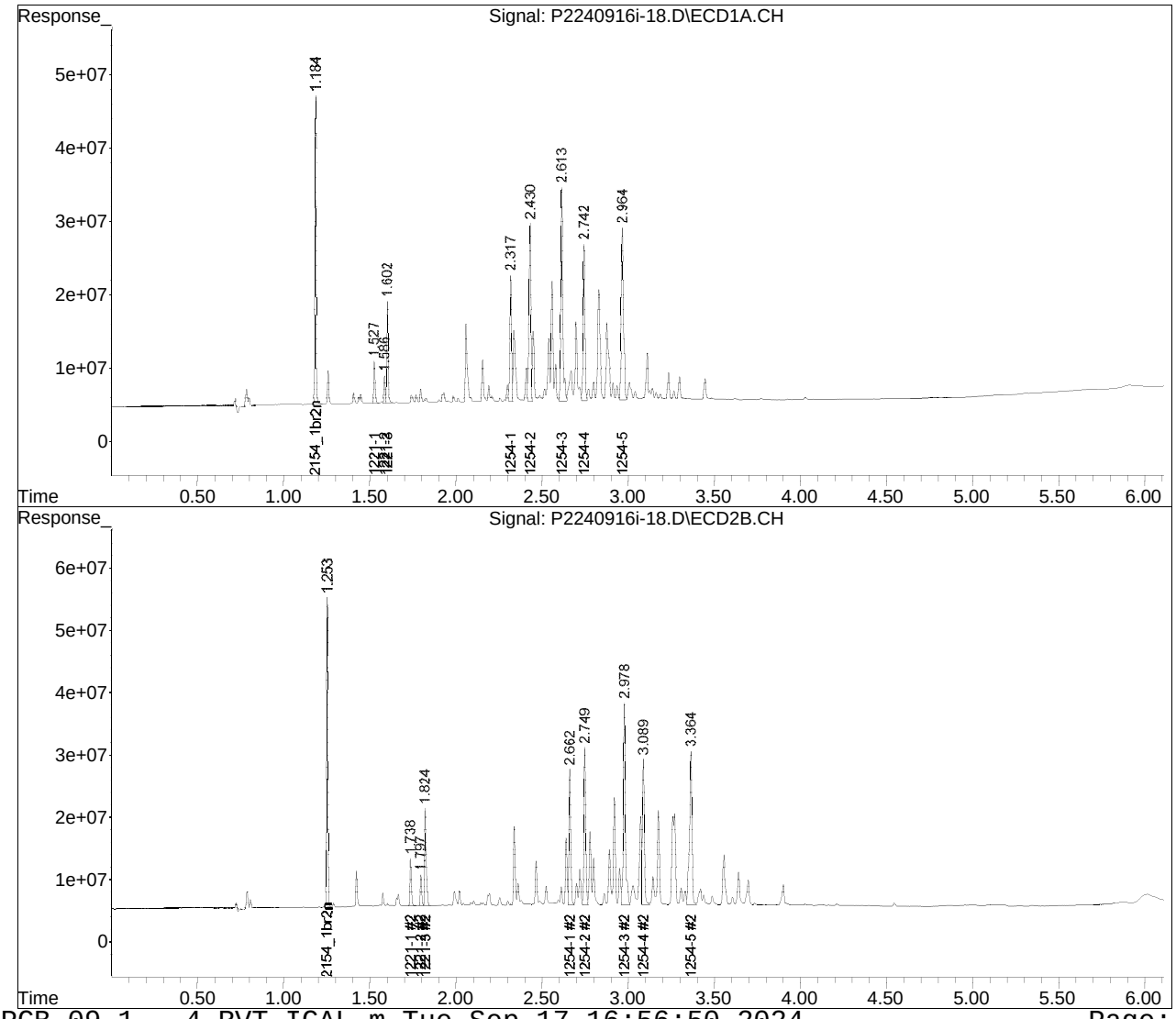
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:14 pm
Operator : pest2:kb/sdc
Sample : il82154,42,, 250 pp11766
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:46:07 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:45:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

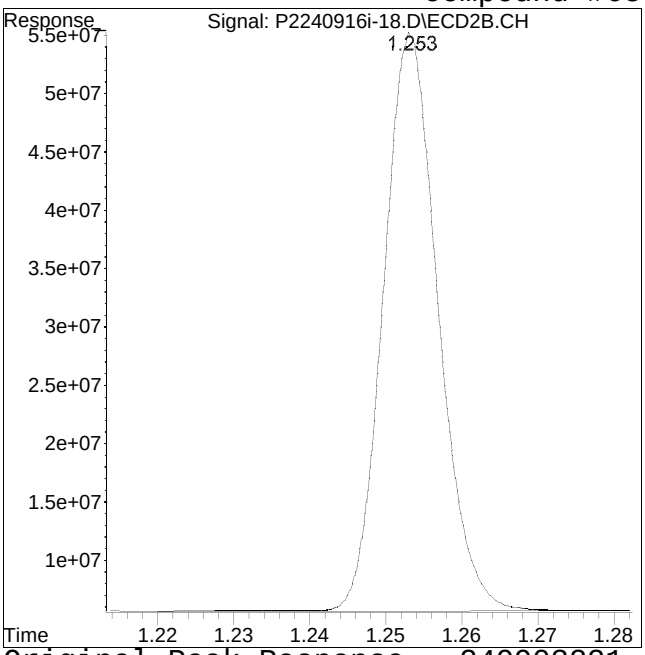
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

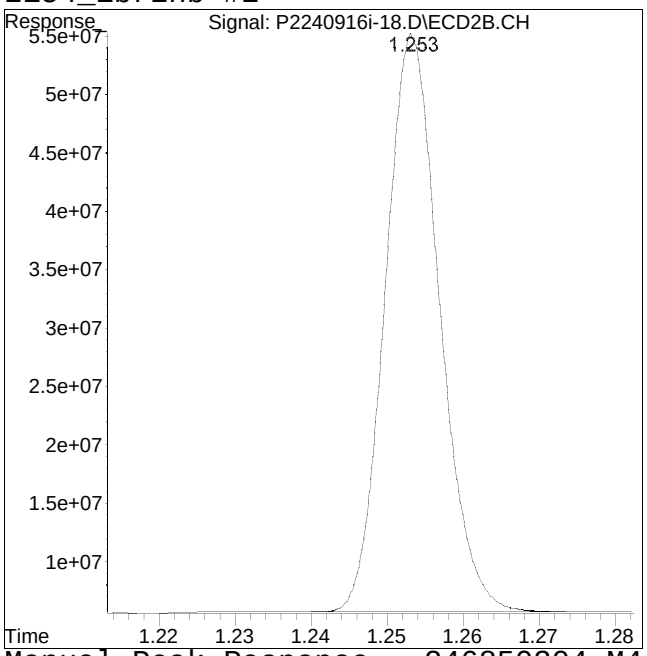


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-18.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:14 pm Instrument : Pest 2
Sample : il82154,42,, 250 pp11766 Quant Date : 9/17/2024 10:46 am

Compound #65: 2154_1br2nb #2





Original Peak Response = 249903221 Manual Peak Response = 246850304 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.185	1.253	207.0E6	246.7E6	25.000	25.000M4
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.927	2.186	124.4E6	154.0E6	244.542	251.173
36) l7	1248-2	2.059	2.339	162.4E6	105.4E6	252.084M3	255.629
37) l7	1248-3	2.155	2.465	145.3E6	130.2E6	251.859	241.978
38) l7	1248-4	2.336	2.640	123.3E6	146.9E6	243.705M3	248.148

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	2.349	2.664	114.9E6	164.9E6	243.648M3	248.334
Sum	1248-1			670.3E6	701.4E6	NoCal	NoCal D
Average	1248-1					247.167	249.052
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D.	N.D.
47) l8	1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

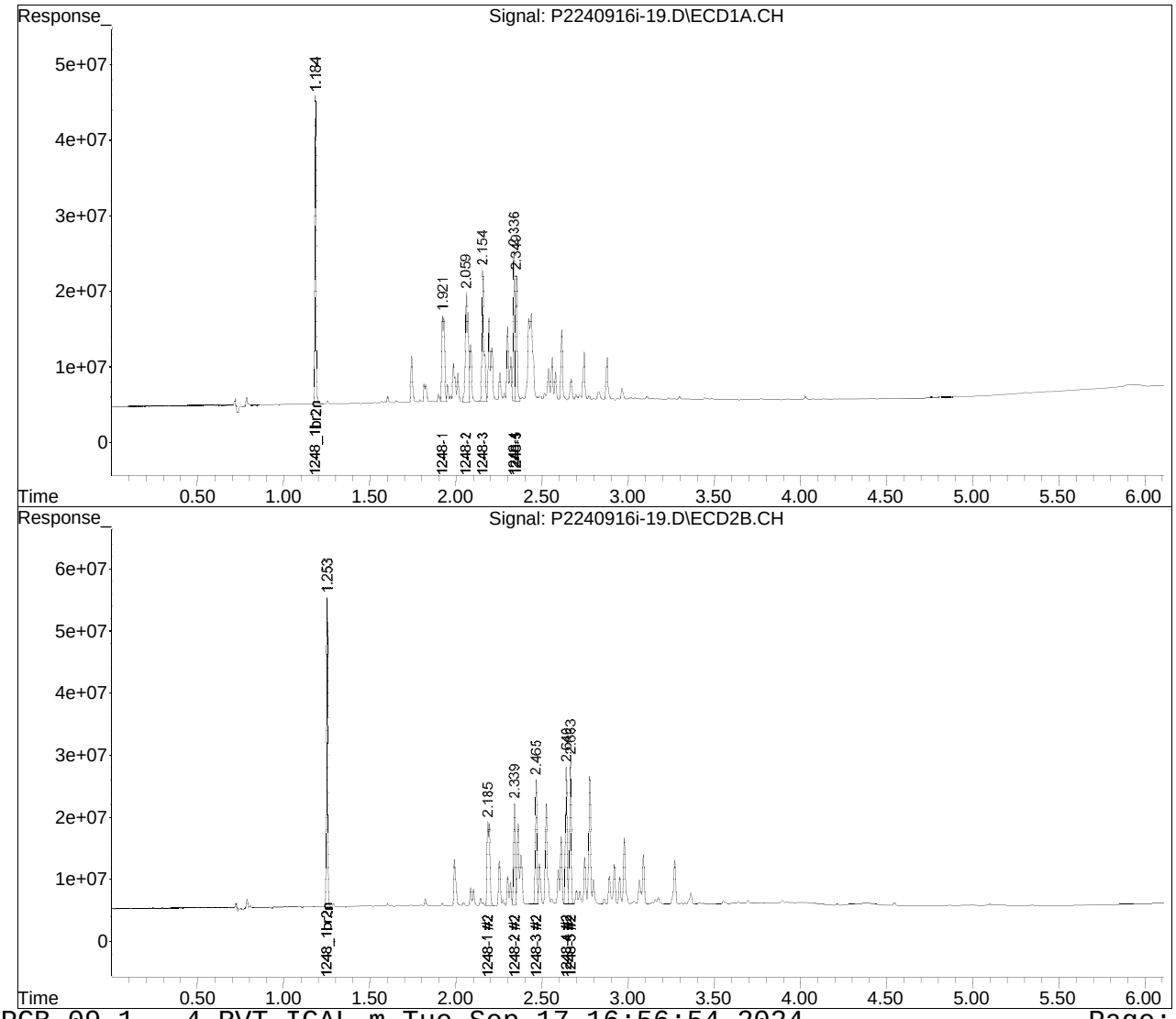
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:23 pm
Operator : pest2:kb/sdc
Sample : il81248,42,, 250 pp11767
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 10:50:35 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 10:50:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

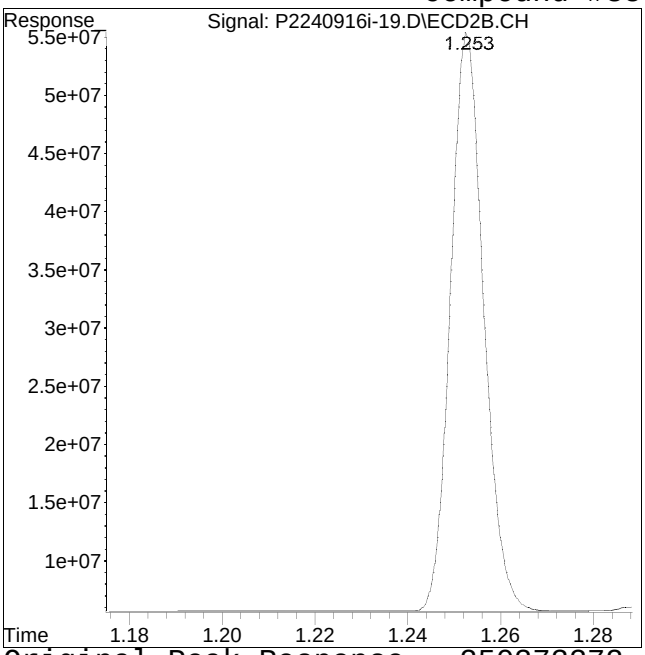
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

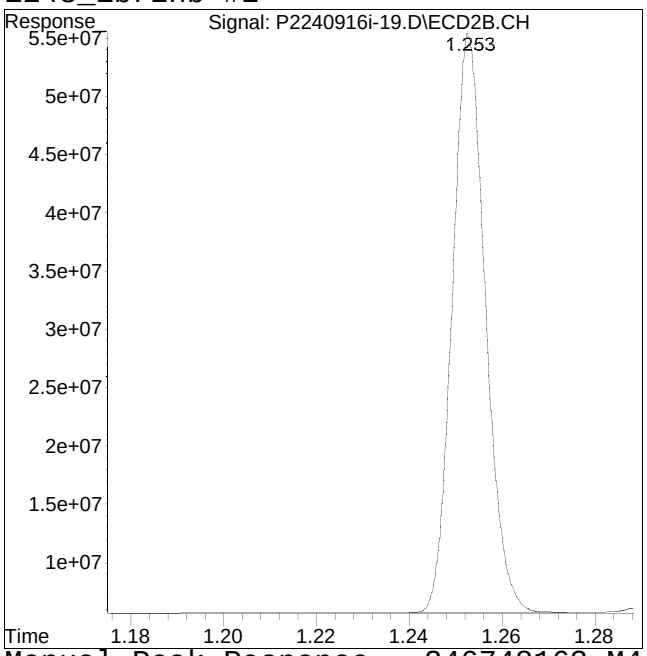


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #85: 1248_1br2nb #2



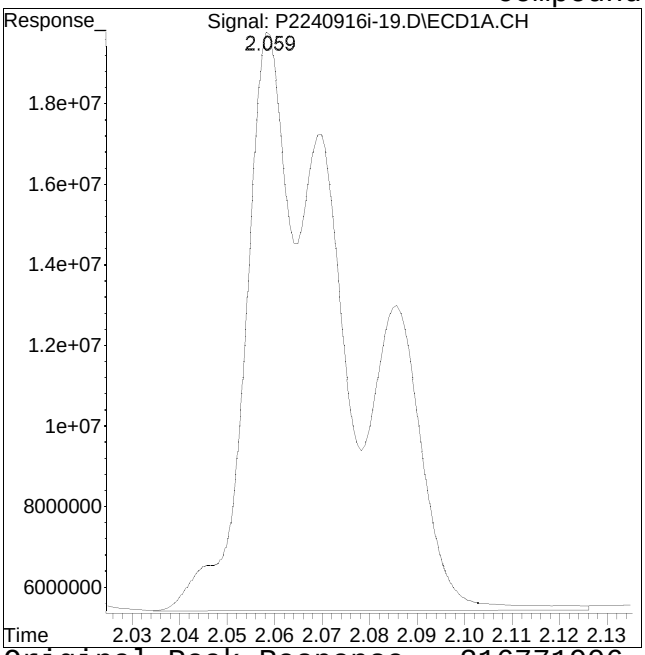


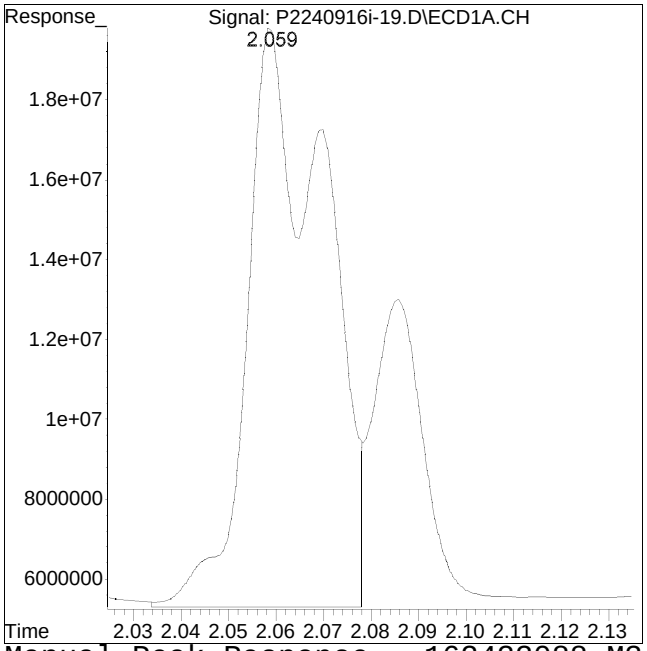
Original Peak Response = 250373372 Manual Peak Response = 246748163 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #36: 1248-2



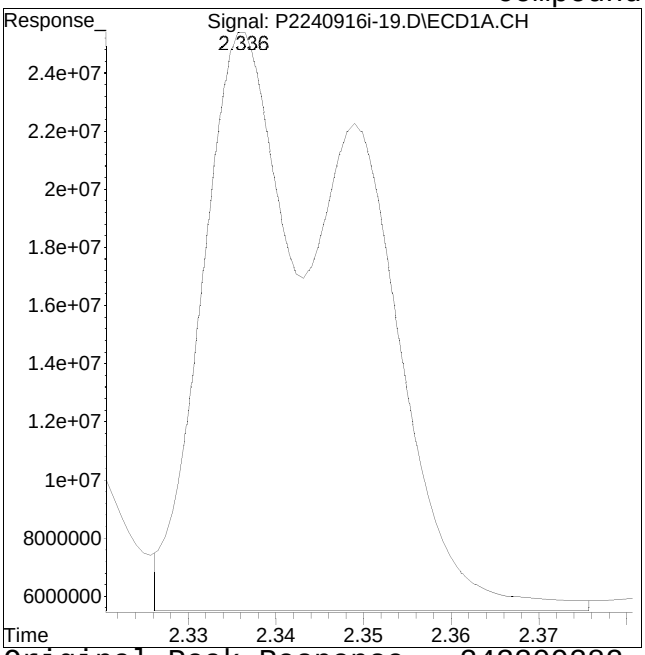


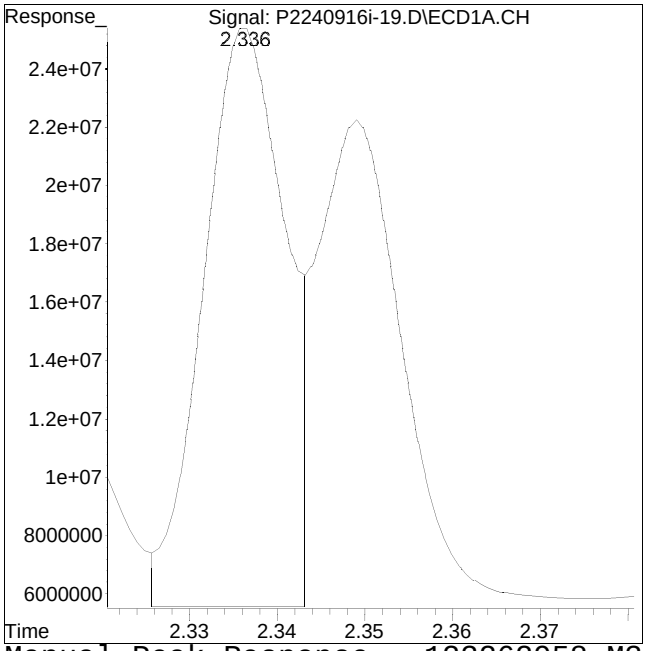
Original Peak Response = 216771906 Manual Peak Response = 162433088 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #38: 1248-4



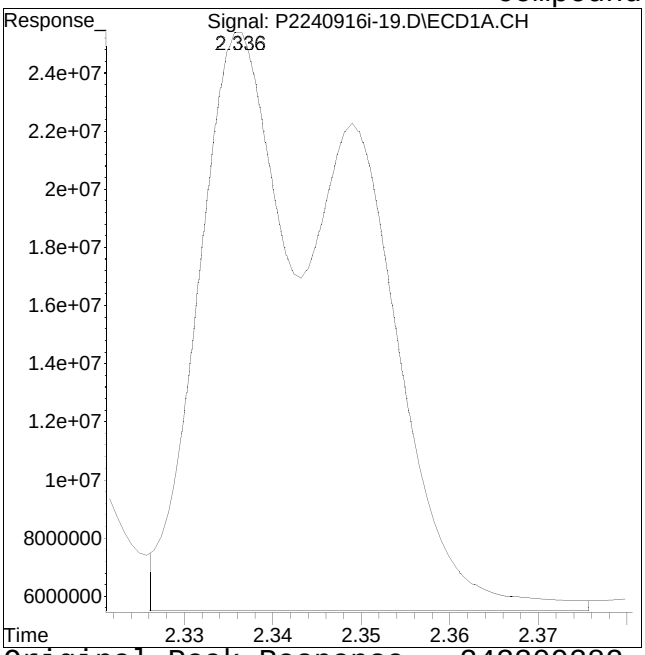


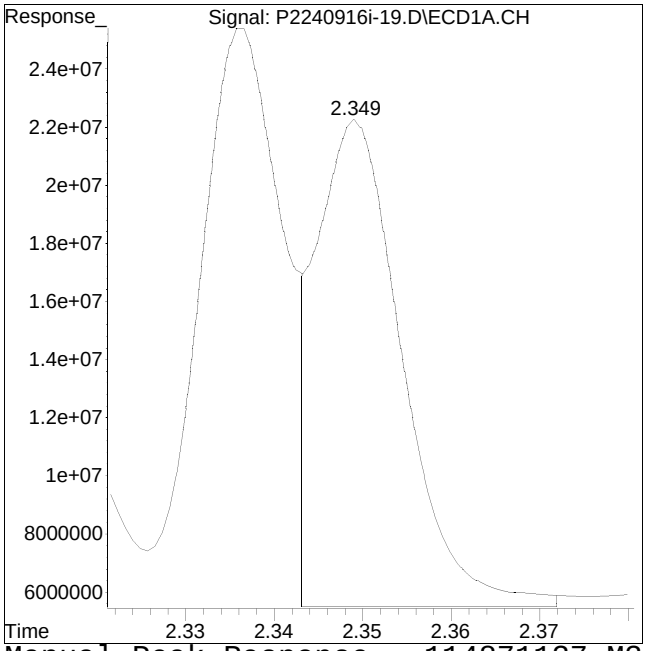
Original Peak Response = 243309382 Manual Peak Response = 123262958 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-19.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:23 pm Instrument : Pest 2
Sample : il81248,42,, 250 pp11767 Quant Date : 9/17/2024 10:50 am

Compound #39: 1248-5





Original Peak Response = 243309382 Manual Peak Response = 114871137 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.185	1.254	209.0E6	243.5E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.603	1.824	60291065	72344592	250.000	250.000
42) l5	1232-2	1.743	1.994	55810869	76163797	225.715	247.951
43) l5	1232-3	1.931	2.195	115.7E6	145.2E6	242.627	240.522
44) l5	1232-4	1.986	2.255	47966543	58938339	223.978	236.986
45) l5	1232-5	2.337	2.640	34955113	43285797	250.000	250.000
Sum	1232-1			314.7E6	395.9E6	1192.320	1225.460
Average	1232-1					238.464	245.092
46) l8	1262-1	2.826	3.175	173.5E6	177.8E6	250.000	250.000
47) l8	1262-2	3.017	3.409	218.9E6	245.2E6	250.000	250.000
48) l8	1262-3	3.141	3.567	190.3E6	221.6E6	250.000	250.000
49) l8	1262-4	3.296	3.696	386.4E6	424.3E6	250.000	250.000
50) l8	1262-5	3.770	4.212	123.6E6	150.7E6	250.000	250.000
Sum	1262-1			1092.7E6	1219.6E6	1250.000	1250.000
Average	1262-1					250.000	250.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1092.7E6	1219.6E6	1250.000	1250.000
Average	1262-1					250.000	250.000

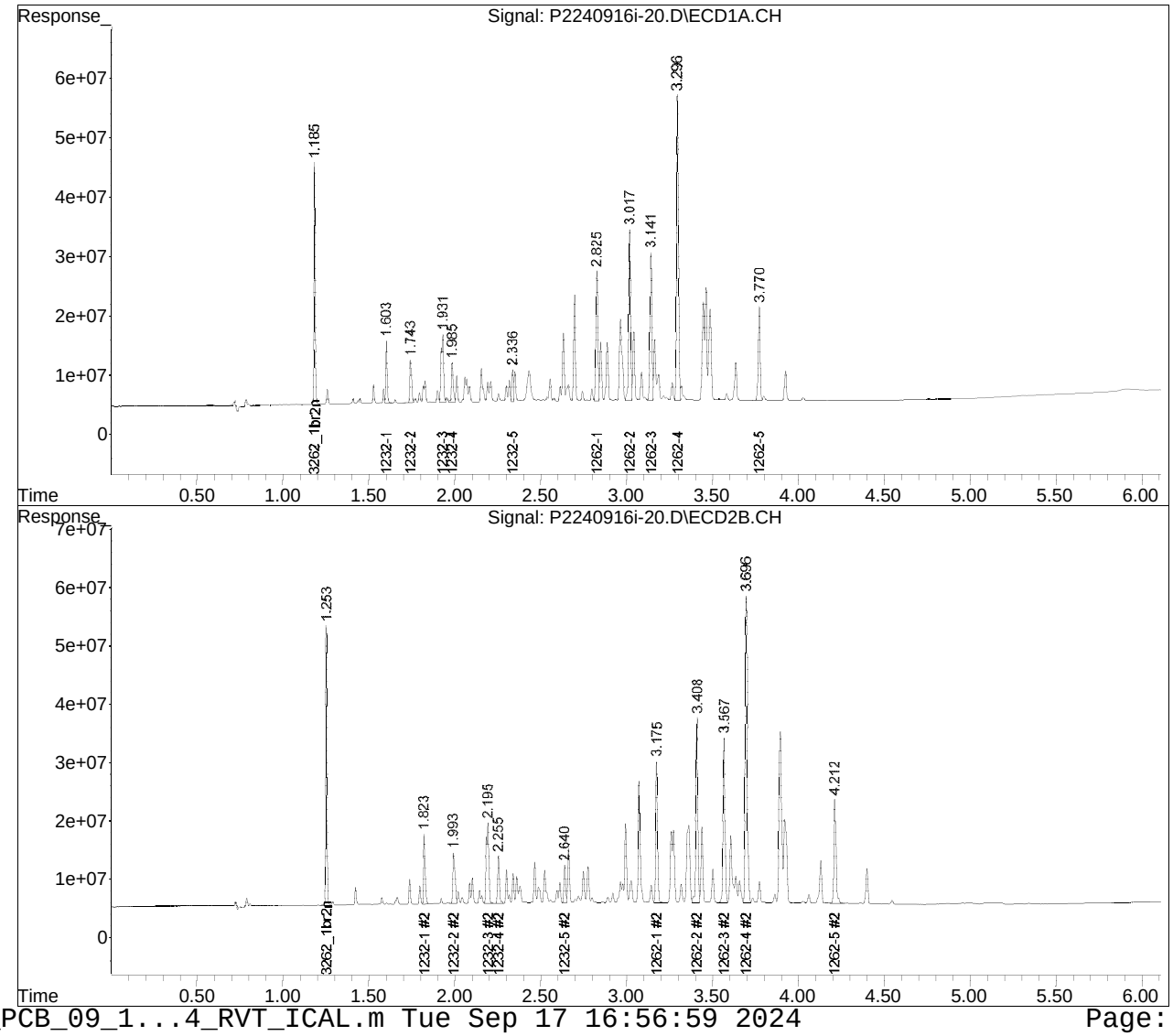
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:32 pm
Operator : pest2:kb/sdc
Sample : il83262,42,, 250 pp11768
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:02:45 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:02:37 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-20.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 5:32 pm	Instrument	: Pest 2
Sample	: il83262,42,, 250 pp11768	Quant Date	: 9/17/2024 11:02 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.185	1.254	203.5E6	250.0E6	25.000	25.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
Sum	1221-1			0	0	N.D.	N.D.	
Average	1221-1					0.000	0.000	
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d	
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d	
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d	
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d	
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1254-1			0	0	N.D.	N.D.	
Average	1254-1					0.000	0.000	
24) l6	1242-1	1.603	1.824	42935320	52847778	191.580	237.473	
25) l6	1242-2	1.743	1.994	93917968	119.7E6	220.107	235.971	
26) l6	1242-3	1.930	2.195	195.1E6	237.8E6	242.153	242.904	
27) l6	1242-4	1.985	2.255	82159676	96723683	233.398	243.823	
28) l6	1242-5	2.336	2.640	65305903	78224584	301.933	224.393	
Sum	1242-1			479.4E6	585.3E6	1189.172	1184.563	
Average	1242-1					237.834	236.913	
29) l9	1268-1	3.459	3.892	424.3E6	475.8E6	247.758	243.028	
30) l9	1268-2	3.480	3.918	384.0E6	423.1E6	224.334	237.127	
31) l9	1268-3	3.582	4.060	312.6E6	351.7E6	238.816	237.498	
32) l9	1268-4	3.769	4.212	136.6E6	154.0E6	263.636	222.601	
33) l9	1268-5	3.923	4.397	950.3E6	998.3E6	238.312	239.513	
Sum	1268-1			2207.8E6	2402.8E6	N.D.	N.D.	D
Average	1268-1					242.571	235.953	
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d	
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d	
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d	
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d	
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1248-1			0	0	N.D.	N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

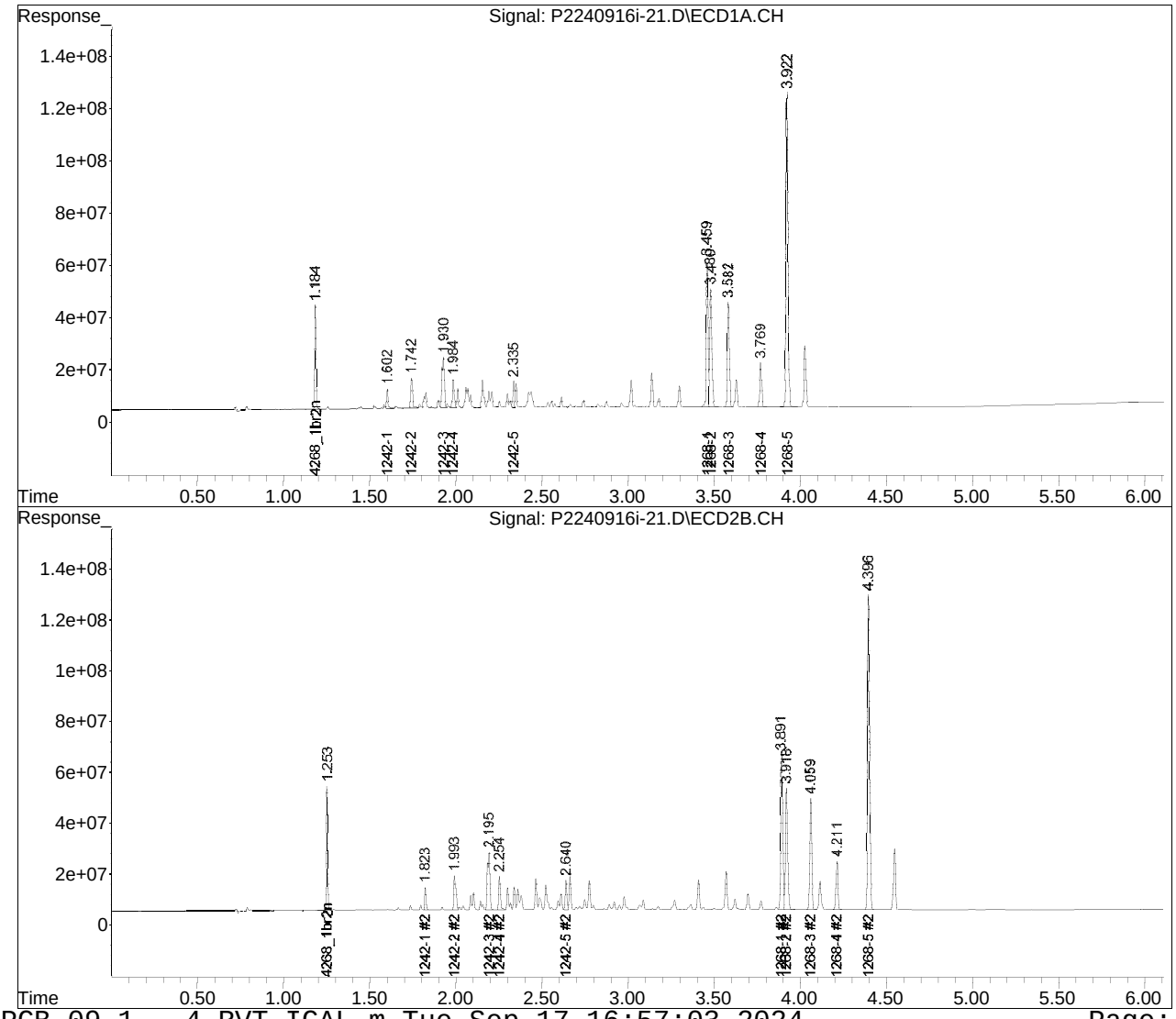
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:41 pm
Operator : pest2:kb/sdc
Sample : il84268,42,, 250 pp11769
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:01:15 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:01:04 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-21.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 5:41 pm	Instrument	: Pest 2
Sample	: il84268,42,, 250 pp11769	Quant Date	: 9/17/2024 11:01 am

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.393	4.0	94	0.00
3	s	Decachlorobiphenyl		1.154	1.066	7.6	99	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	97	0.00
15	l3	1221-1		0.015	0.014	6.7	93	0.00
16	l3	1221-2		0.00922	0.00853	7.5	90	0.00
17	l3	1221-3		0.037	0.035	5.4	92	0.00
18	l4	1254-1		0.052	0.052	0.0	96	0.00
19	l4	1254-2		0.093	0.096	-3.2	100	0.00
20	l4	1254-3		0.101	0.102	-1.0	98	0.00
21	l4	1254-4		0.071	0.071	0.0	97	0.00
22	l4	1254-5		0.099	0.092	7.1	91	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	101	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.457	11.1	94	0.00
3	s	Decachlorobiphenyl		1.101	0.945	14.2	101	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	100	0.00
15	l3	1221-1		0.017	0.016	5.9	92	0.00
16	l3	1221-2		0.011	0.010	9.1	94	0.00
17	l3	1221-3		0.040	0.037	7.5	93	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1		0.062	0.061	1.6	97	0.00
19	l4	1254-2		0.073	0.068	6.8	94	0.00
20	l4	1254-3		0.109	0.104	4.6	96	0.00
21	l4	1254-4		0.073	0.070	4.1	96	0.00
22	l4	1254-5		0.101	0.090	10.9	90	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	99	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	101	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1		0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2		0.189	0.000	100.0#	0#	-3.48#

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31	l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#
41	l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5	0.059	0.000	100.0#	0#	-3.77#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#
12	l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13	l2	1260-5	0.111	0.000	100.0#	0#	-3.90#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:49 pm
Operator : pest2:kb/sdc
Sample   : cicv2154,42,, 250 pp11770
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	209.2E6	246.8E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.624	186.5E6	230.1E6	15.364	14.228
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.07%#	2.85%#
3) s	Decachlorobi	4.027	4.545	285.5E6	298.7E6	29.570	27.477
	Spiked Amount 500.000	Range 30 - 150		Recovery =		5.91%#	5.50%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-1	1.527	1.738	29919584	39651692	239.214	230.534
16) l3	1221-2	1.586	1.797	17855926	25596338	231.435	235.072M3

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	1.602	1.823	73306971	91388301	237.579M3	231.547M3
Sum	1221-1			121.1E6	156.6E6	708.228	697.154
Average	1221-1					236.076	232.385
18) l4	1254-1	2.318	2.662	108.9E6	149.4E6	247.864	243.242
19) l4	1254-2	2.430	2.749	200.3E6	169.0E6	256.414	234.706
20) l4	1254-3	2.613	2.978	213.8E6	256.9E6	252.422	239.769
21) l4	1254-4	2.742	3.089	149.0E6	172.1E6	249.375	240.436
22) l4	1254-5	2.964	3.364	192.7E6	222.6E6	233.391	223.792
Sum	1254-1			864.8E6	970.1E6	1239.466	1181.946
Average	1254-1					247.893	236.389
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

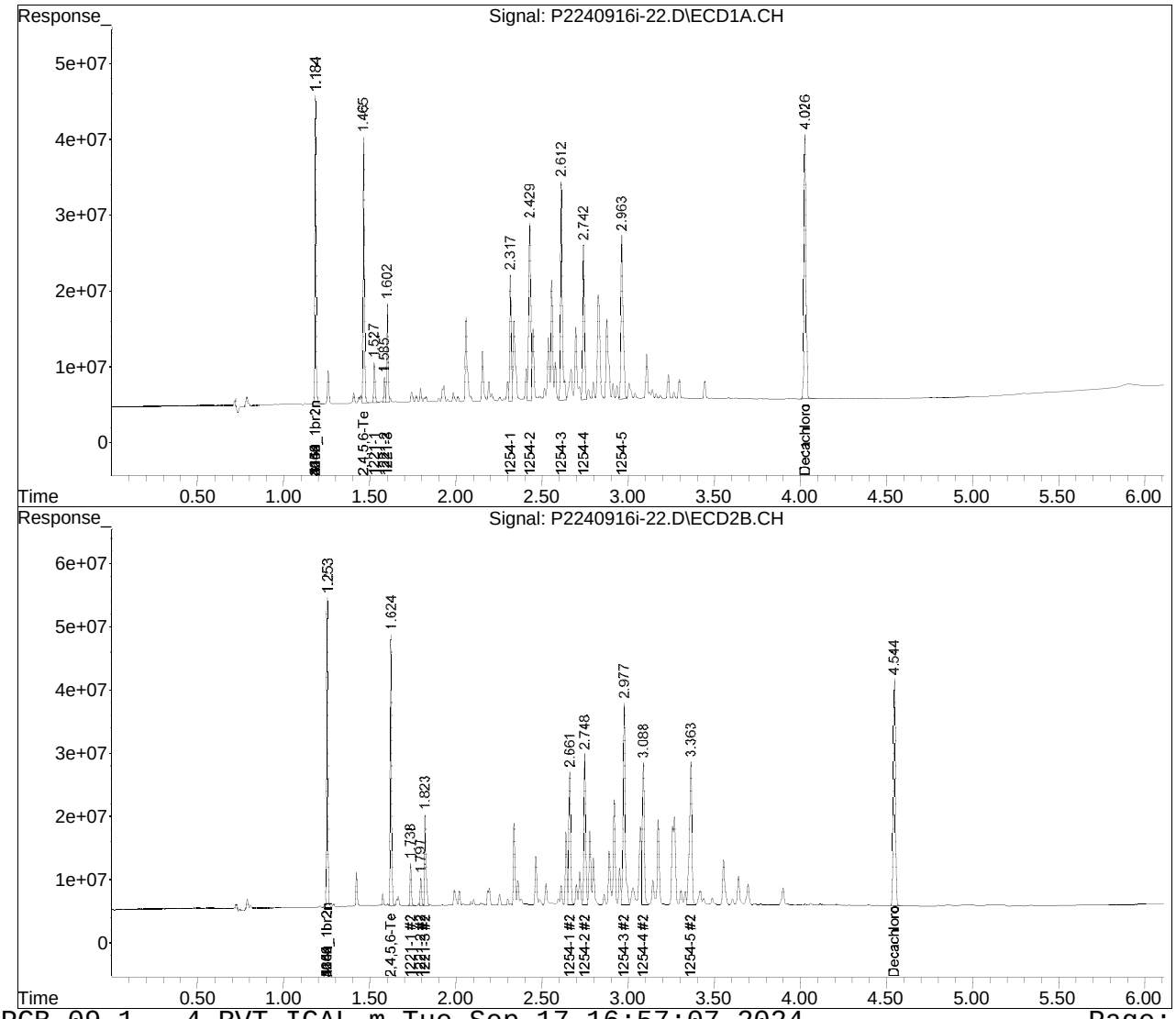
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:49 pm
Operator : pest2:kb/sdc
Sample : cicv2154,42,, 250 pp11770
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:04:27 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

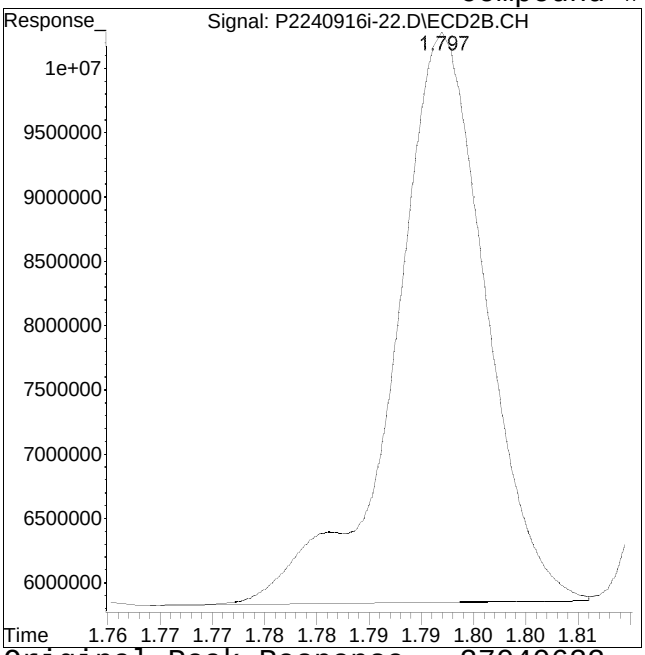
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

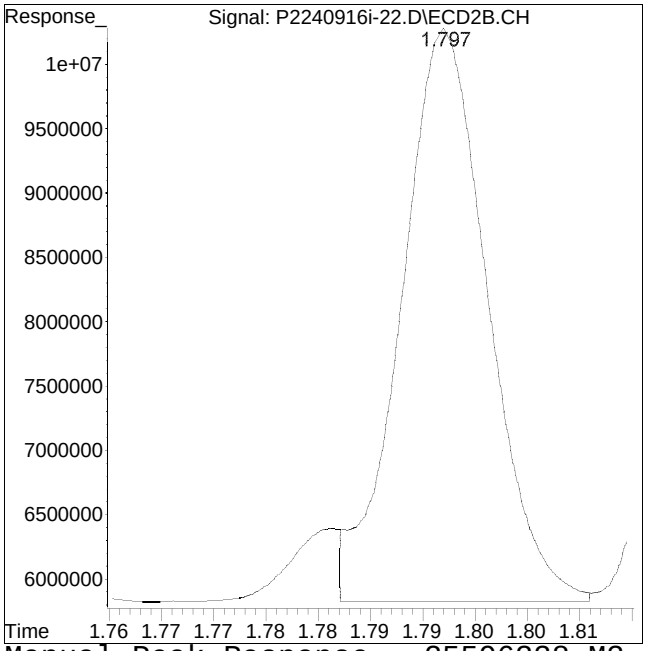


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #67: 1221-2 #2



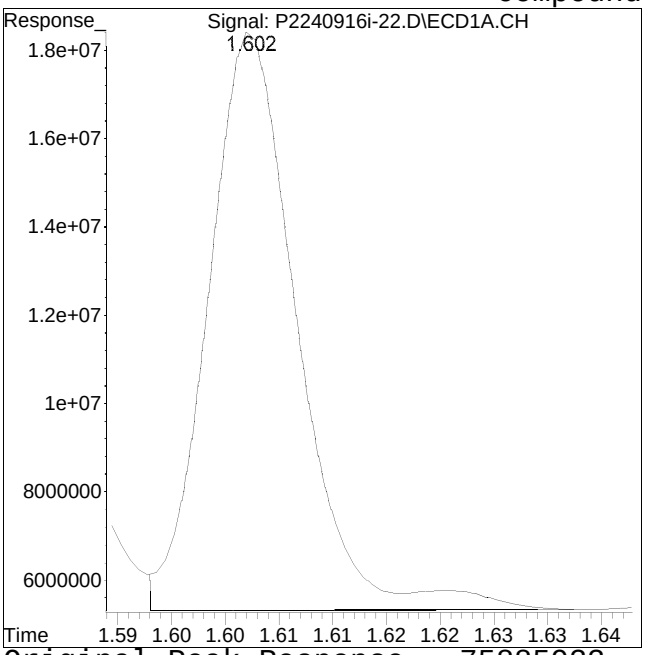


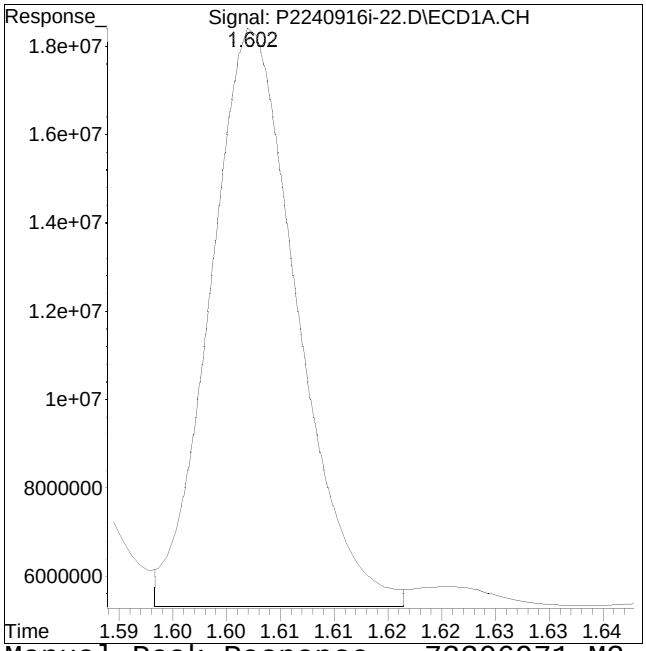
Original Peak Response = 27040632 Manual Peak Response = 25596338 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #17: 1221-3



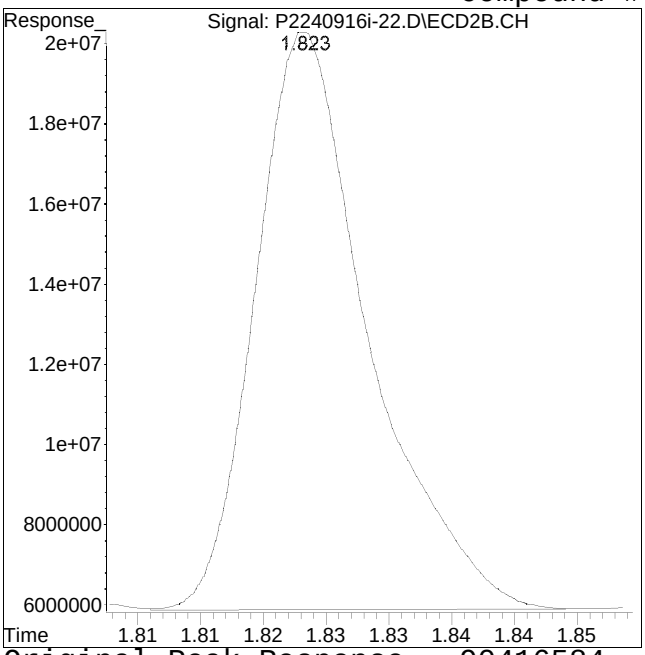


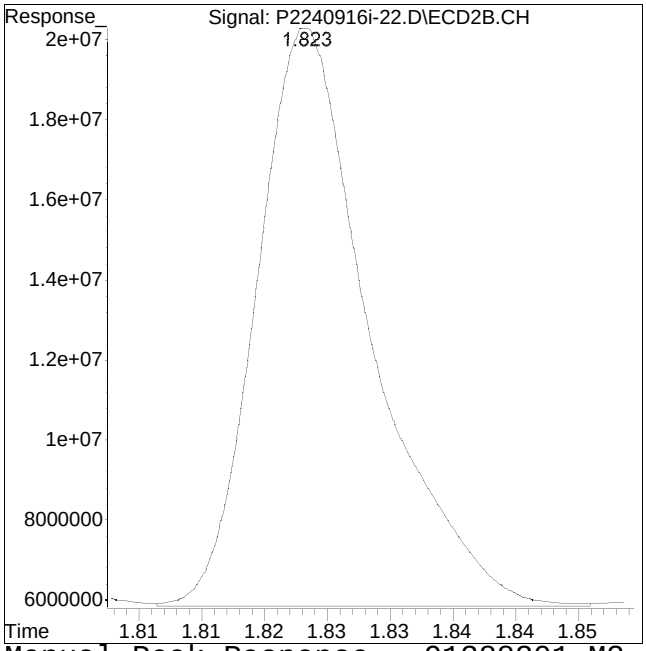
Original Peak Response = 75885933 Manual Peak Response = 73306971 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-22.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:49 pm Instrument : Pest 2
Sample : cicv2154,42,, 250 pp11770 Quant Date : 9/17/2024 11:04 am

Compound #68: 1221-3 #2





Original Peak Response = 90416584 Manual Peak Response = 91388301 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.663	-14.6	108	0.00
3	s	Decachlorobiphenyl		1.154	1.221	-5.8	108	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	93	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	99	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
35	l7	1248-1		0.060	0.070	-16.7	113	0.00
36	l7	1248-2		0.078	0.077	1.3	95	0.00
37	l7	1248-3		0.070	0.069	1.4	95	0.00
38	l7	1248-4		0.060	0.062	-3.3	100	0.00
39	l7	1248-5		0.056	0.061	-8.9	106	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	96	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.691	-3.2	108	0.00
3	s	Decachlorobiphenyl		1.101	1.088	1.2	114	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	98	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	97	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	98	0.00
35	l7	1248-1		0.062	0.074	-19.4	116	0.00
36	l7	1248-2		0.043	0.041	4.7	94	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
37	l7	1248-3		0.053	0.051	3.8	96	0.00
38	l7	1248-4		0.060	0.059	1.7	98	0.00
39	l7	1248-5		0.067	0.069	-3.0	102	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	100	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#
18	l4	1254-1		0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2		0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3		0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4		0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5		0.099	0.000	100.0#	0#	-2.96#
24	l6	1242-1		0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2		0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3		0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4		0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5		0.032	0.000	100.0#	0#	-2.34#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29 l9	1268-1	0.209	0.000	100.0#	0#	-3.46#
30 l9	1268-2	0.189	0.000	100.0#	0#	-3.48#
31 l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32 l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33 l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
41 l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42 l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43 l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44 l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45 l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46 l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47 l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49 l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50 l8	1262-5	0.059	0.000	100.0#	0#	-3.77#
Signal #2						
4 l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5 l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6 l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7 l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8 l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9 l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10 l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11 l2	1260-3	0.079	0.000	100.0#	0#	-3.57#
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
15 l3	1221-1	0.017	0.000	100.0#	0#	-1.74#
16 l3	1221-2	0.011	0.000	100.0#	0#	-1.80#
17 l3	1221-3	0.040	0.000	100.0#	0#	-1.82#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   5:58 pm
Operator : pest2:kb/sdc
Sample   : cicv1248,42,, 250 pp11771
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	200.5E6	242.9E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.624	213.5E6	262.9E6	18.345	16.519
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.67%#	3.30%#
3) s	Decachlorobi	4.026	4.544	313.3E6	338.1E6	33.848	31.607
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.77%#	6.32%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D.	N.D.
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.930	2.194	140.9E6	179.3E6	292.359	295.742
36) l7	1248-2	2.057	2.339	154.8E6	99401870	245.867M1	239.644
37) l7	1248-3	2.153	2.465	137.7E6	125.0E6	244.604	243.815
38) l7	1248-4	2.335	2.640	123.8E6	144.3E6	259.212	249.605
39) l7	1248-5	2.348	2.663	121.4E6	167.8E6	272.812	258.383

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			678.7E6	715.8E6	1314.855	1287.190
Average	1248-1					262.971	257.438
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

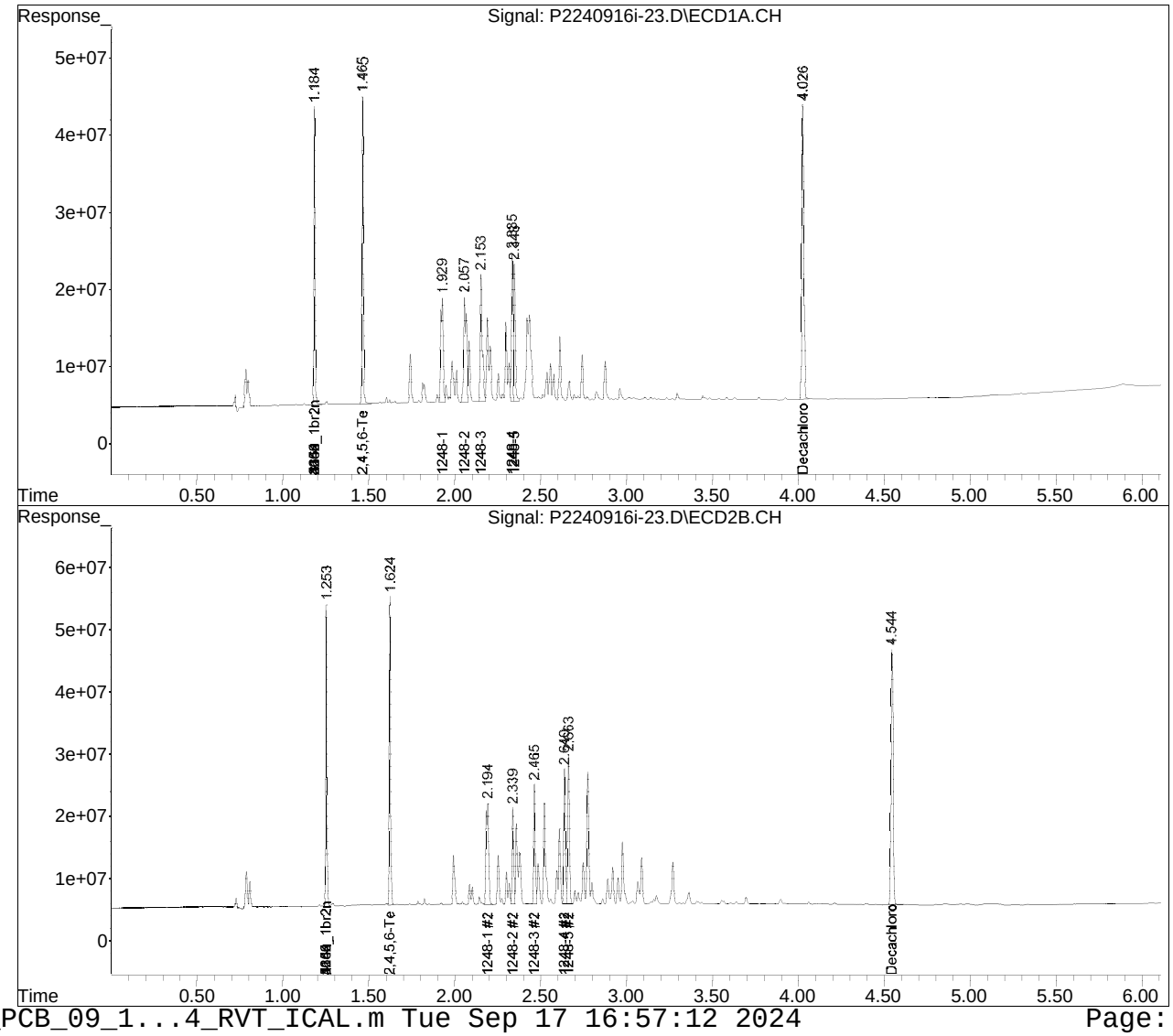
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 5:58 pm
Operator : pest2:kb/sdc
Sample : cicv1248,42,, 250 pp11771
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:05:09 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

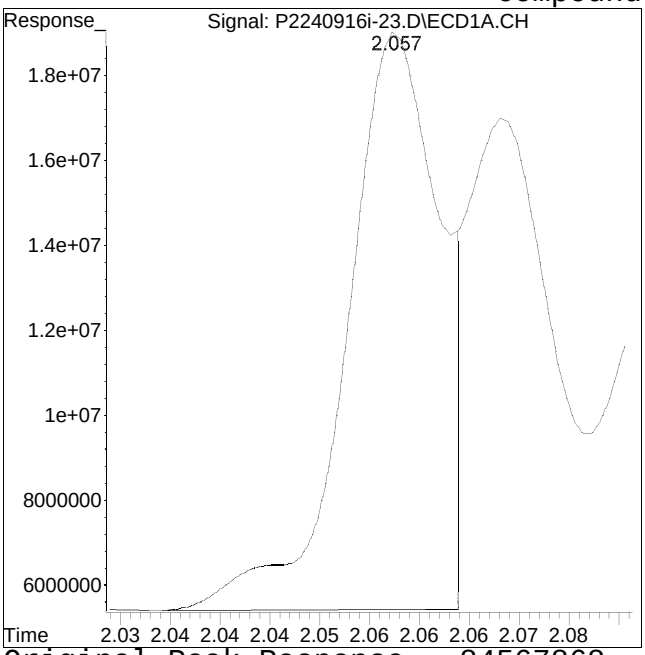
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



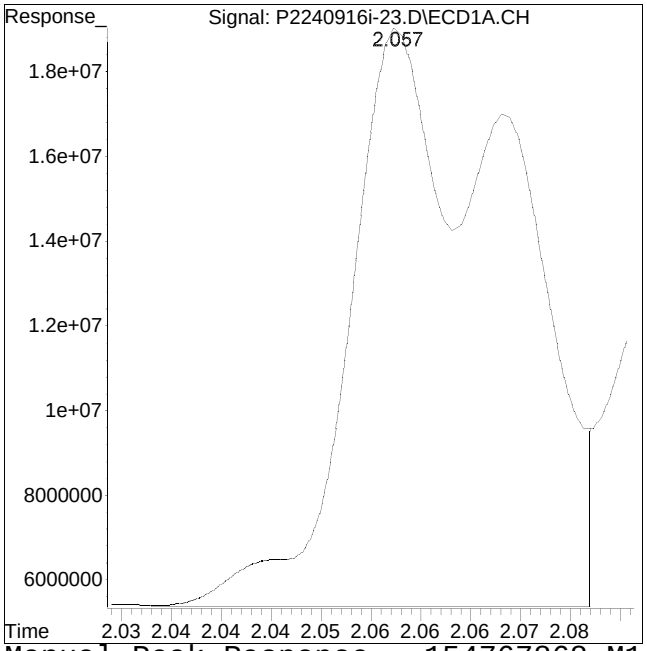
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-23.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 5:58 pm Instrument : Pest 2
Sample : cicv1248,42,, 250 pp11771 Quant Date : 9/17/2024 11:05 am

Compound #36: 1248-2



Original Peak Response = 84567868



Manual Peak Response = 154767868 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.477	-1.8	95	0.00
3	s	Decachlorobiphenyl		1.154	1.142	1.0	100	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	92	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	97	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00
41	l5	1232-1		0.029	0.034	-17.2	113	0.00
42	l5	1232-2		0.027	0.026	3.7	94	0.00
43	l5	1232-3		0.055	0.056	-1.8	96	0.00
44	l5	1232-4		0.023	0.023	0.0	97	0.00
45	l5	1232-5		0.017	0.018	-5.9	103	0.00
46	l8	1262-1		0.083	0.083	0.0	95	0.00
47	l8	1262-2		0.105	0.105	0.0	95	0.00
48	l8	1262-3		0.091	0.092	-1.1	96	0.00
49	l8	1262-4		0.185	0.186	-0.5	95	0.00
50	l8	1262-5		0.059	0.059	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	96	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.585	3.2	98	0.00
3	s	Decachlorobiphenyl		1.101	1.007	8.5	103	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	94	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	97	0.00
41	l5	1232-1		0.030	0.035	-16.7	113	0.00
42	l5	1232-2		0.031	0.031	0.0	97	0.00
43	l5	1232-3		0.060	0.059	1.7	97	0.00
44	l5	1232-4		0.024	0.024	0.0	96	0.00
45	l5	1232-5		0.018	0.018	0.0	100	0.00
46	l8	1262-1		0.073	0.072	1.4	95	0.00
47	l8	1262-2		0.101	0.099	2.0	95	0.00
48	l8	1262-3		0.091	0.090	1.1	96	0.00
49	l8	1262-4		0.174	0.169	2.9	94	0.00
50	l8	1262-5		0.062	0.060	3.2	93	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2	0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3	0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4	0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5	0.099	0.000	100.0#	0#	-2.96#
24	l6	1242-1	0.021	0.000	100.0#	0#	-1.60#
25	l6	1242-2	0.046	0.000	100.0#	0#	-1.74#
26	l6	1242-3	0.096	0.000	100.0#	0#	-1.93#
27	l6	1242-4	0.040	0.000	100.0#	0#	-1.98#
28	l6	1242-5	0.032	0.000	100.0#	0#	-2.34#
29	l9	1268-1	0.209	0.000	100.0#	0#	-3.46#
30	l9	1268-2	0.189	0.000	100.0#	0#	-3.48#
31	l9	1268-3	0.154	0.000	100.0#	0#	-3.58#
32	l9	1268-4	0.067	0.000	100.0#	0#	-3.77#
33	l9	1268-5	0.467	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:07 pm
Operator : pest2:kb/sdc
Sample   : cicv3262,42,, 250 pp11773
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
15 l3	1221-1	0.017	0.000	100.0#	0#	-1.74#
16 l3	1221-2	0.011	0.000	100.0#	0#	-1.80#
17 l3	1221-3	0.040	0.000	100.0#	0#	-1.82#
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
24 l6	1242-1	0.021	0.000	100.0#	0#	-1.82#
25 l6	1242-2	0.048	0.000	100.0#	0#	-1.99#
26 l6	1242-3	0.095	0.000	100.0#	0#	-2.19#
27 l6	1242-4	0.039	0.000	100.0#	0#	-2.25#
28 l6	1242-5	0.031	0.000	100.0#	0#	-2.64#
29 l9	1268-1	0.190	0.000	100.0#	0#	-3.89#
30 l9	1268-2	0.169	0.000	100.0#	0#	-3.92#
31 l9	1268-3	0.141	0.000	100.0#	0#	-4.06#
32 l9	1268-4	0.062	0.000	100.0#	0#	-4.21#
33 l9	1268-5	0.399	0.000	100.0#	0#	-4.40#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	198.2E6	235.7E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.625	187.3E6	239.1E6	16.288	15.477
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.26%#	3.10%#
3) s	Decachlorobi	4.026	4.544	289.7E6	304.0E6	31.672	29.276
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.33%#	5.86%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.603	1.824	68269965	81414585	298.488	290.625
42) l5	1232-2	1.743	1.994	52386986	73941054	247.432	250.711
43) l5	1232-3	1.930	2.195	111.0E6	140.2E6	252.978	249.333
44) l5	1232-4	1.985	2.255	46547705	56591438	255.806	247.965
45) l5	1232-5	2.336	2.641	36041624	43471742	271.797	259.357
Sum	1232-1			314.2E6	395.6E6	1326.500	1297.990
Average	1232-1					265.300	259.598
46) l8	1262-1	2.825	3.175	165.3E6	168.8E6	251.208	245.187
47) l8	1262-2	3.016	3.409	209.0E6	233.6E6	251.679	246.122
48) l8	1262-3	3.140	3.567	182.7E6	212.0E6	253.128	246.995
49) l8	1262-4	3.295	3.696	368.0E6	398.7E6	251.038	242.663
50) l8	1262-5	3.769	4.212	117.6E6	140.8E6	250.989	241.242
Sum	1262-1			1042.7E6	1153.9E6	1258.042	1222.209
Average	1262-1					251.608	244.442

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1042.7E6	1153.9E6	1258.042	1222.209
Average	1262-1					251.608	244.442

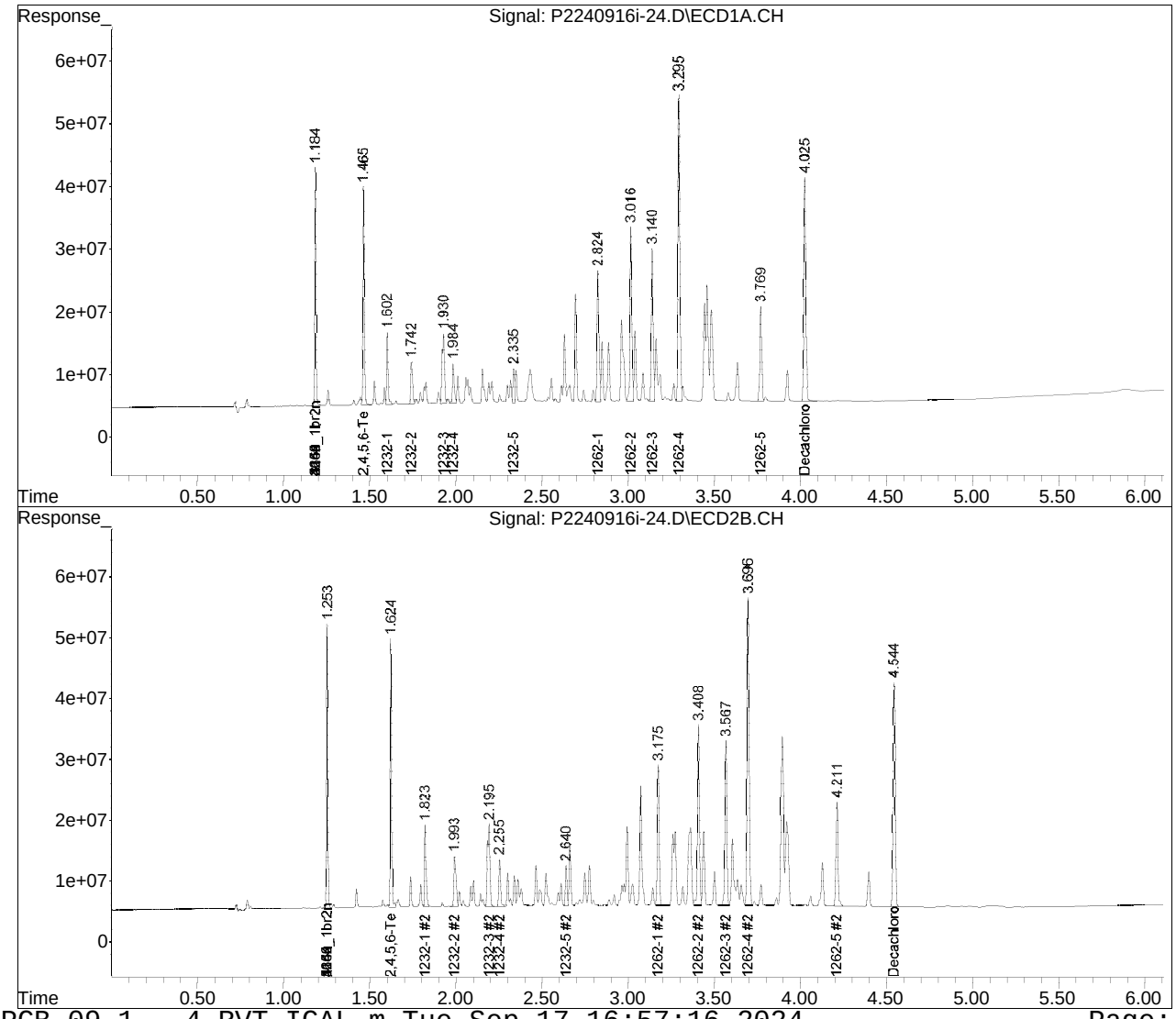
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:07 pm
Operator : pest2:kb/sdc
Sample : cicv3262,42,, 250 pp11773
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:00 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240916I\	QMethod	: P2_PCB_09_16_24_RVT_ICAL
Data File	: P2240916i-24.D	Operator	: pest2:kb/sdc
Date Inj'd	: 9/16/2024 6:07 pm	Instrument	: Pest 2
Sample	: cicv3262,42,, 250 pp11773	Quant Date	: 9/17/2024 11:06 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.522	-4.9	98	0.00
3	s	Decachlorobiphenyl		1.154	1.730	-49.9#	152#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	92	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	98	0.00
24	l6	1242-1		0.021	0.022	-4.8	104	0.00
25	l6	1242-2		0.046	0.052	-13.0	111	0.00
26	l6	1242-3		0.096	0.102	-6.2	104	0.00
27	l6	1242-4		0.040	0.043	-7.5	104	0.00
28	l6	1242-5		0.032	0.033	-3.1	101	0.00
29	l9	1268-1		0.209	0.236	-12.9	111	0.00
30	l9	1268-2		0.189	0.209	-10.6	109	0.00
31	l9	1268-3		0.154	0.157	-1.9	100	0.00
32	l9	1268-4		0.067	0.067	0.0	98	0.00
33	l9	1268-5		0.467	0.442	5.4	93	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.638	1.565	4.5	98	0.00
3	s	Decachlorobiphenyl		1.101	1.500	-36.2#	155#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	95	0.00
24	l6	1242-1		0.021	0.024	-14.3	106	0.00
25	l6	1242-2		0.048	0.053	-10.4	105	0.00
26	l6	1242-3		0.095	0.104	-9.5	104	0.00
27	l6	1242-4		0.039	0.042	-7.7	103	0.00
28	l6	1242-5		0.031	0.034	-9.7	104	0.00
29	l9	1268-1		0.190	0.219	-15.3	109	0.00
30	l9	1268-2		0.169	0.189	-11.8	106	0.00
31	l9	1268-3		0.141	0.145	-2.8	98	0.00
32	l9	1268-4		0.062	0.063	-1.6	98	0.00
33	l9	1268-5		0.399	0.389	2.5	93	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	97	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	98	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		0.027	0.000	100.0#	0#	-1.60#
5	l1	1016-2		0.059	0.000	100.0#	0#	-1.74#
6	l1	1016-3		0.117	0.000	100.0#	0#	-1.93#
7	l1	1016-4		0.049	0.000	100.0#	0#	-1.98#
8	l1	1016-5		0.054	0.000	100.0#	0#	-2.15#
9	l2	1260-1		0.075	0.000	100.0#	0#	-2.70#
10	l2	1260-2		0.113	0.000	100.0#	0#	-2.83#
11	l2	1260-3		0.069	0.000	100.0#	0#	-3.14#
12	l2	1260-4		0.151	0.000	100.0#	0#	-3.30#
13	l2	1260-5		0.108	0.000	100.0#	0#	-3.44#
15	l3	1221-1		0.015	0.000	100.0#	0#	-1.53#
16	l3	1221-2		0.00922	0.00000	100.0#	0#	-1.59#
17	l3	1221-3		0.037	0.000	100.0#	0#	-1.60#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.052	0.000	100.0#	0#	-2.32#
19	l4	1254-2	0.093	0.000	100.0#	0#	-2.43#
20	l4	1254-3	0.101	0.000	100.0#	0#	-2.61#
21	l4	1254-4	0.071	0.000	100.0#	0#	-2.74#
22	l4	1254-5	0.099	0.000	100.0#	0#	-2.96#
35	l7	1248-1	0.060	0.000	100.0#	0#	-1.93#
36	l7	1248-2	0.078	0.000	100.0#	0#	-2.06#
37	l7	1248-3	0.070	0.000	100.0#	0#	-2.15#
38	l7	1248-4	0.060	0.000	100.0#	0#	-2.34#
39	l7	1248-5	0.056	0.000	100.0#	0#	-2.35#
41	l5	1232-1	0.029	0.000	100.0#	0#	-1.60#
42	l5	1232-2	0.027	0.000	100.0#	0#	-1.74#
43	l5	1232-3	0.055	0.000	100.0#	0#	-1.93#
44	l5	1232-4	0.023	0.000	100.0#	0#	-1.99#
45	l5	1232-5	0.017	0.000	100.0#	0#	-2.34#
46	l8	1262-1	0.083	0.000	100.0#	0#	-2.83#
47	l8	1262-2	0.105	0.000	100.0#	0#	-3.02#
48	l8	1262-3	0.091	0.000	100.0#	0#	-3.14#
49	l8	1262-4	0.185	0.000	100.0#	0#	-3.30#
50	l8	1262-5	0.059	0.000	100.0#	0#	-3.77#

Signal #2

4	l1	1016-1	0.030	0.000	100.0#	0#	-1.82#
5	l1	1016-2	0.065	0.000	100.0#	0#	-1.99#
6	l1	1016-3	0.131	0.000	100.0#	0#	-2.19#
7	l1	1016-4	0.053	0.000	100.0#	0#	-2.25#
8	l1	1016-5	0.042	0.000	100.0#	0#	-2.46#
9	l2	1260-1	0.082	0.000	100.0#	0#	-3.07#
10	l2	1260-2	0.097	0.000	100.0#	0#	-3.17#
11	l2	1260-3	0.079	0.000	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 16 Sep 2024   6:15 pm
Operator : pest2:kb/sdc
Sample   : cicv4268,42,, 250 pp11772
Misc   : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	0.155	0.000	100.0#	0#	-3.70#
13 l2	1260-5	0.111	0.000	100.0#	0#	-3.90#
15 l3	1221-1	0.017	0.000	100.0#	0#	-1.74#
16 l3	1221-2	0.011	0.000	100.0#	0#	-1.80#
17 l3	1221-3	0.040	0.000	100.0#	0#	-1.82#
18 l4	1254-1	0.062	0.000	100.0#	0#	-2.66#
19 l4	1254-2	0.073	0.000	100.0#	0#	-2.75#
20 l4	1254-3	0.109	0.000	100.0#	0#	-2.98#
21 l4	1254-4	0.073	0.000	100.0#	0#	-3.09#
22 l4	1254-5	0.101	0.000	100.0#	0#	-3.36#
35 l7	1248-1	0.062	0.000	100.0#	0#	-2.19#
36 l7	1248-2	0.043	0.000	100.0#	0#	-2.34#
37 l7	1248-3	0.053	0.000	100.0#	0#	-2.47#
38 l7	1248-4	0.060	0.000	100.0#	0#	-2.64#
39 l7	1248-5	0.067	0.000	100.0#	0#	-2.66#
41 l5	1232-1	0.030	0.000	100.0#	0#	-1.82#
42 l5	1232-2	0.031	0.000	100.0#	0#	-1.99#
43 l5	1232-3	0.060	0.000	100.0#	0#	-2.20#
44 l5	1232-4	0.024	0.000	100.0#	0#	-2.26#
45 l5	1232-5	0.018	0.000	100.0#	0#	-2.64#
46 l8	1262-1	0.073	0.000	100.0#	0#	-3.18#
47 l8	1262-2	0.101	0.000	100.0#	0#	-3.41#
48 l8	1262-3	0.091	0.000	100.0#	0#	-3.57#
49 l8	1262-4	0.174	0.000	100.0#	0#	-3.70#
50 l8	1262-5	0.062	0.000	100.0#	0#	-4.21#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
14) i	2154_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
23) i	4268_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
34) i	1248_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
40) i	3262_1br2nb	1.185	1.254	199.3E6	238.2E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.625	194.1E6	238.6E6	16.787	15.284
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.36%#	3.06%#
3) s	Decachlorobi	4.026	4.544	441.2E6	457.5E6	47.972	43.605
	Spiked Amount 500.000	Range 30 - 150		Recovery =		9.59%#	8.72%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.602	1.823	44493355	56043063	264.571	278.221
25) l6	1242-2	1.741	1.994	104.1E6	125.4E6	283.000M1	274.871
26) l6	1242-3	1.930	2.195	203.6E6	247.3E6	266.424	272.811
27) l6	1242-4	1.984	2.255	85044716	99394063	264.271	269.601
28) l6	1242-5	2.335	2.640	66155142	81559141	258.626	273.542
Sum	1242-1			503.4E6	609.7E6	1336.892	1369.046
Average	1242-1					267.378	273.809
29) l9	1268-1	3.458	3.891	470.6E6	520.6E6	283.128	287.064
30) l9	1268-2	3.479	3.918	417.3E6	449.7E6	277.418	278.906
31) l9	1268-3	3.581	4.059	313.3E6	345.8E6	255.903	257.951
32) l9	1268-4	3.768	4.211	134.4E6	150.9E6	251.151	257.023
33) l9	1268-5	3.922	4.397	881.6E6	926.0E6	236.864	243.367
Sum	1268-1			2217.2E6	2393.0E6	1304.464	1324.311
Average	1268-1					260.893	264.862
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

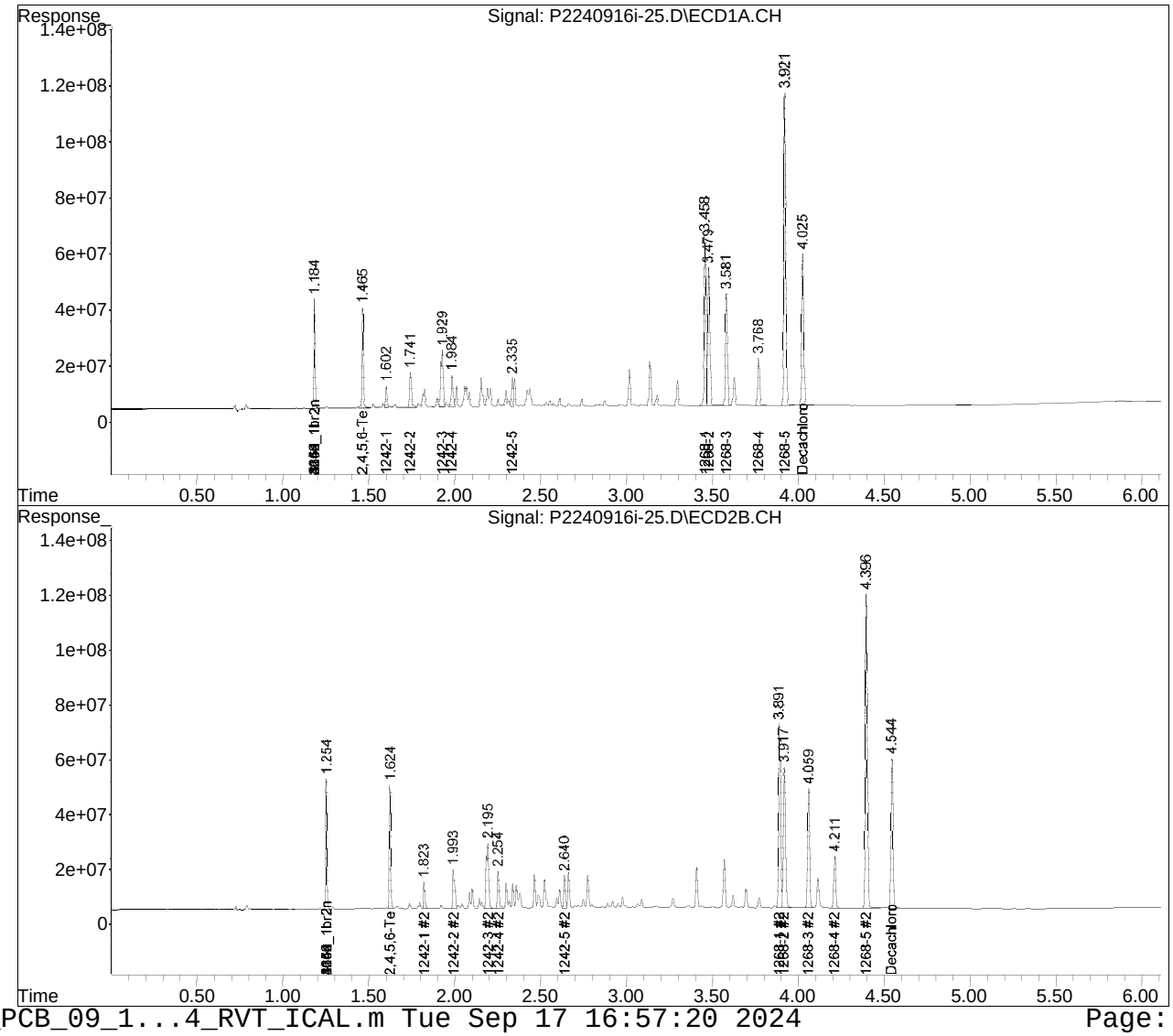
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2024\240916I\
Data File : P2240916i-25.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 16 Sep 2024 6:15 pm
Operator : pest2:kb/sdc
Sample : cicv4268,42,, 250 pp11772
Misc : WG1972777,, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 17 11:06:44 2024
Quant Method : I:\PCB\Pest2\2024\240916I\P2_PCB_09_16_24_RVT_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

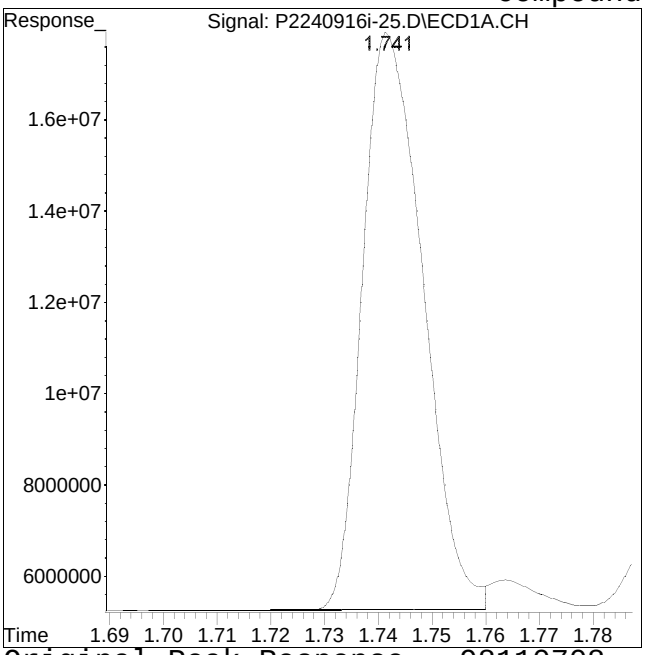
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

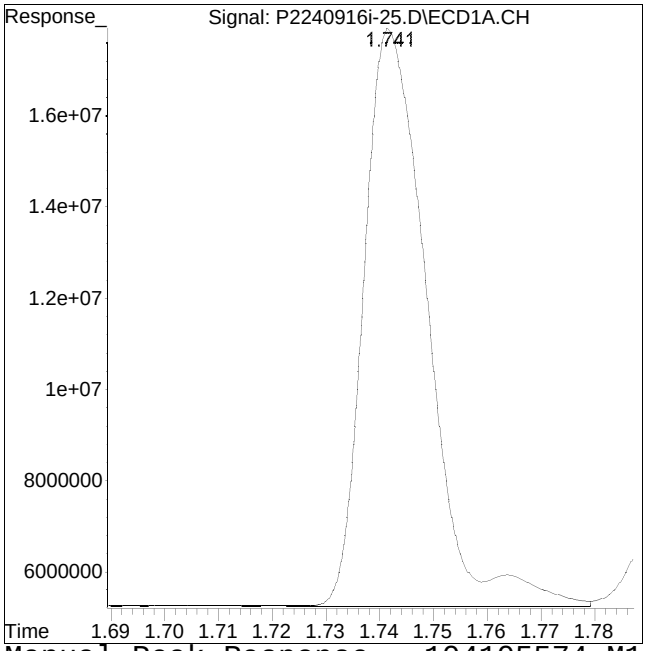


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240916I\QMethod : P2_PCB_09_16_24_RVT_ICAL
Data File : P2240916i-25.D Operator : pest2:kb/sdc
Date Inj'd : 9/16/2024 6:15 pm Instrument : Pest 2
Sample : cicv4268,42,, 250 pp11772 Quant Date : 9/17/2024 11:06 am

Compound #25: 1242-2





Original Peak Response = 98110708 Manual Peak Response = 104105574 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 09/25/24 20:39		
Lab File ID	: P2240925b-29	**Init. Calib. Date(s)**	: 09/16/24	09/16/24	
Sample No	: WG1976073-5	**Init. Calib. Times**	: 15:29	17:41	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	91	0
2,4,5,6-Tetrachloro-m-xylen	1.451	1.682	-	-15.9	20	106	0
Decachlorobiphenyl	1.154	1.348	-	-16.8	20	116	-.02
1016-1	0.027	0.029	-	-7.4	20	106	0
1016-2	0.059	0.055	-	6.8	20	94	0
1016-3	0.117	0.148	-	-26.5*	20	119	0
1016-4	0.049	0.064	-	-30.6*	20	122	0
1016-5	0.054	0.064	-	-18.5	20	116	0
1260-1	0.075	0.094	-	-25.3*	20	124	-.01
1260-2	0.113	0.146	-	-29.2*	20	126	-.01
1260-3	0.069	0.079	-	-14.5	20	107	-.01
1260-4	0.151	0.148	-	2	20	92	-.02
1260-5	0.108	0.125	-	-15.7	20	112	-.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST2	**Calibration Date**	: 09/25/24 20:39		
Lab File ID	: P2240925b-29	**Init. Calib. Date(s)**	: 09/16/24	09/16/24	
Sample No	: WG1976073-5	**Init. Calib. Times**	: 15:29	17:41	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	117	0
2,4,5,6-Tetrachloro-m-xylen	1.638	1.381	-	15.7	20	104	0
Decachlorobiphenyl #2	1.101	0.947	-	14	20	118	-.03
1016-1 #2	0.03	0.025	-	16.7	20	106	-.01
1016-2 #2	0.065	0.06	-	7.7	20	118	-.01
1016-3 #2	0.131	0.121	-	7.6	20	120	-.01
1016-4 #2	0.053	0.052	-	1.9	20	127	-.01
1016-5 #2	0.042	0.038	-	9.5	20	114	-.02
1260-1 #2	0.082	0.079	-	3.7	20	127	-.02
1260-2 #2	0.097	0.084	-	13.4	20	115	-.02
1260-3 #2	0.079	0.062	-	21.5*	20	105	-.03
1260-4 #2	0.155	0.101	-	34.8*	20	85	-.03
1260-5 #2	0.111	0.09	-	18.9	20	107	-.03

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 20:39
Operator : pest2:mhg
Sample : WG1976073-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1976073,,ICAL21500
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 20:46:13 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	91	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.451	1.682	-15.9	106	0.00
3	s	Decachlorobiphenyl		1.154	1.348	-16.8	116	-0.02
4	l1	1016-1		0.027	0.029	-7.4	106	0.00
5	l1	1016-2		0.059	0.055	6.8	94	0.00
6	l1	1016-3		0.117	0.148	-26.5#	119	0.00
7	l1	1016-4		0.049	0.064	-30.6#	122	0.00
8	l1	1016-5		0.054	0.064	-18.5	116	0.00
9	l2	1260-1		0.075	0.094	-25.3#	124	-0.01
10	l2	1260-2		0.113	0.146	-29.2#	126	-0.01
11	l2	1260-3		0.069	0.079	-14.5	107	-0.01
12	l2	1260-4		0.151	0.148	2.0	92	-0.02
13	l2	1260-5		0.108	0.125	-15.7	112	-0.02
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	117	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.638	1.381	15.7	104	0.00
54	s	Decachlorobiphenyl #2		1.101	0.947	14.0	118	-0.03
55	l1	1016-1 #2		0.030	0.025	16.7	106	-0.01
56	l1	1016-2 #2		0.065	0.060	7.7	118	-0.01
57	l1	1016-3 #2		0.131	0.121	7.6	120	-0.01
58	l1	1016-4 #2		0.053	0.052	1.9	127	-0.01
59	l1	1016-5 #2		0.042	0.038	9.5	114	-0.02
60	l2	1260-1 #2		0.082	0.079	3.7	127	-0.02
61	l2	1260-2 #2		0.097	0.084	13.4	115	-0.02
62	l2	1260-3 #2		0.079	0.062	21.5#	105	-0.03
63	l2	1260-4 #2		0.155	0.101	34.8#	85	-0.03
64	l2	1260-5 #2		0.111	0.090	18.9	107	-0.03

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 25 Sep 2024 20:39
Operator : pest2:mhg
Sample   : WG1976073-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc   : WG1976073,,ICAL21500
ALS Vial : 29 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 20:46:13 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 20:39
Operator : pest2:mhg
Sample : WG1976073-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1976073,,ICAL21500
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 20:46:13 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.181	1.247	195.2E6	287.5E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.461	1.615	210.1E6	254.1E6	18.552	13.485
	Spiked Amount	20.000	Range 30 - 150		Recovery =	92.76%	67.42%
3) s	Decachlorobi	4.007	4.511f	336.7E6	348.5E6	37.383	27.525
	Spiked Amount	20.000	Range 30 - 150		Recovery =	186.92%#	137.63%
	Target Compounds						
4) l1	1016-1	1.598	1.812	57162595	70709044	270.733	203.710
5) l1	1016-2	1.737	1.981	107.8E6	173.4E6	234.545M3	230.901
6) l1	1016-3	1.923	2.180	288.7E6	347.7E6	316.859	230.999
7) l1	1016-4	1.978	2.239	124.0E6	148.4E6	323.017	244.377
8) l1	1016-5	2.146	2.447f	124.7E6	109.0E6	295.005	225.033M4
	Sum 1016-1			702.4E6	849.3E6	1440.159	1135.020
	Average 1016-1					288.032	227.004
9) l2	1260-1	2.684	3.050f	183.3E6	226.5E6	315.035	239.661
10) l2	1260-2	2.813	3.151f	285.5E6	242.6E6	322.947	217.276
11) l2	1260-3	3.126	3.539f	153.2E6	179.5E6	286.315	196.628
12) l2	1260-4	3.280f	3.668f	288.3E6	291.2E6	245.324	163.013
13) l2	1260-5	3.427f	3.868f	243.6E6	257.9E6	290.258M1	202.810M2
	Sum 1260-1			1153.9E6	1197.6E6	1459.879	1019.388
	Average 1260-1					291.976	203.878
	Sum 1221-1			0	0	N.D.	N.D.
	Average 1221-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 20:39
Operator : pest2:mhg
Sample : WG1976073-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,, lvi pp11776 (Sig #2)
Misc : WG1976073,,ICAL21500
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 20:46:13 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

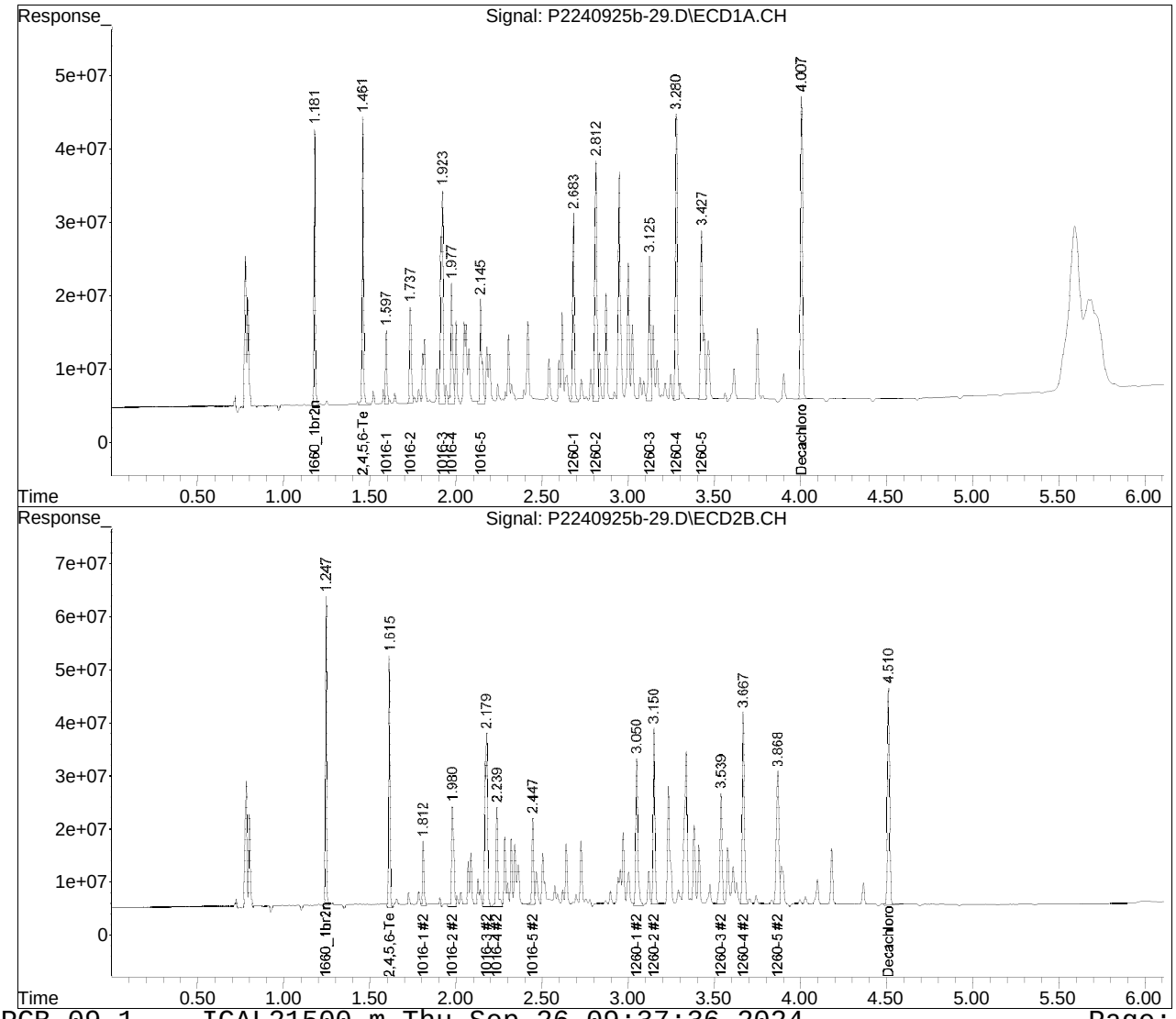
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-29.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 20:39
Operator : pest2:mhg
Sample : WG1976073-5,42,,cicv1660,42,, lvi pp11776 (Sig #1); cicv1660,42,,
Misc : WG1976073,,ICAL21500
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 25 20:46:13 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

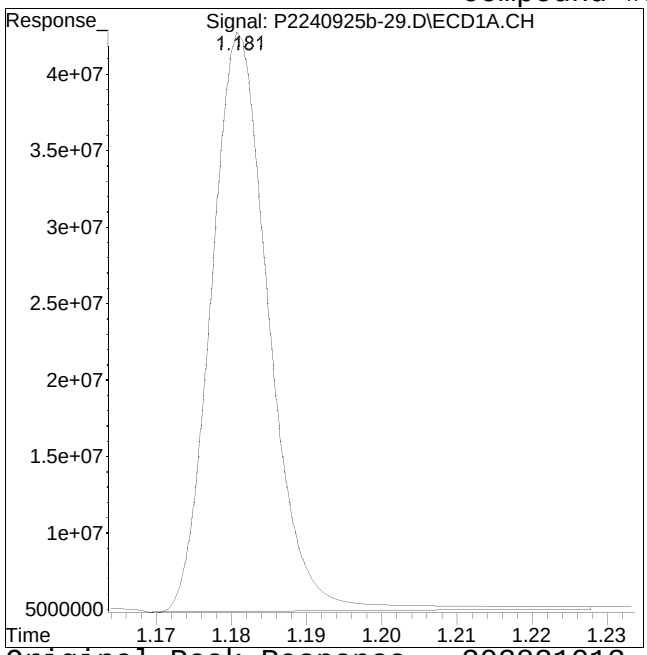
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

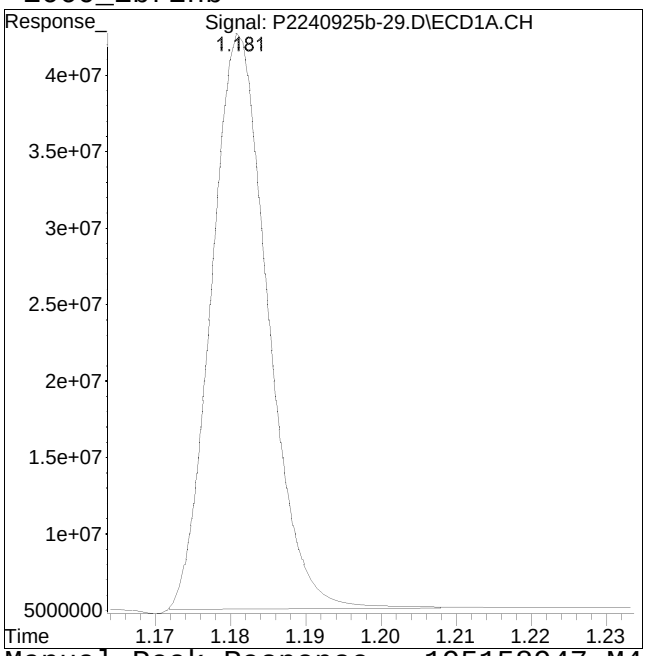


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-29.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 20:39 Instrument : Pest 2
Sample : WG1976073-5,42,,cicv1660,4Quant Date : 9/25/2024 8:46 pm

Compound #1: 1660_1br2nb



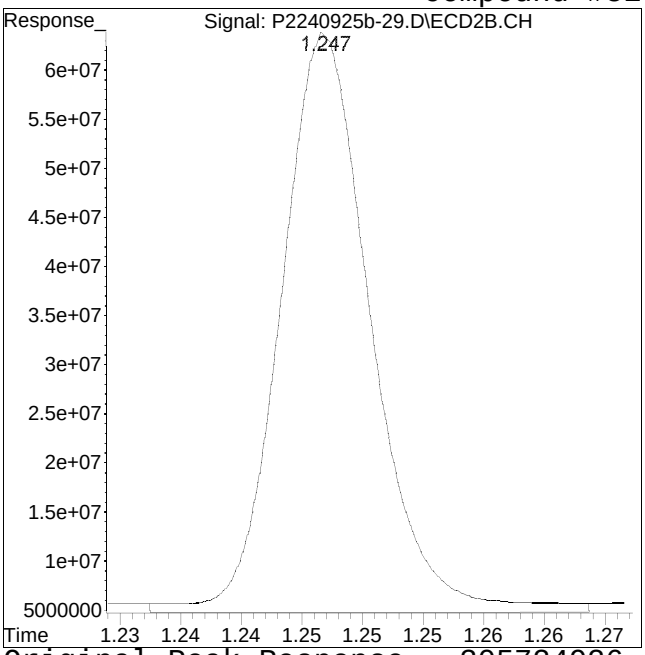


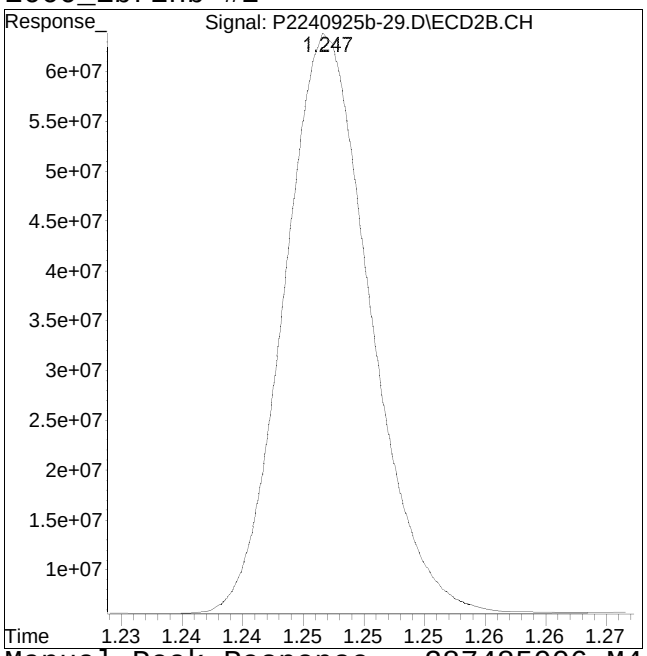
Original Peak Response = 203831013 Manual Peak Response = 195158947 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-29.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 20:39 Instrument : Pest 2
Sample : WG1976073-5,42,,cicv1660,4Quant Date : 9/25/2024 8:46 pm

Compound #52: 1660_1br2nb #2



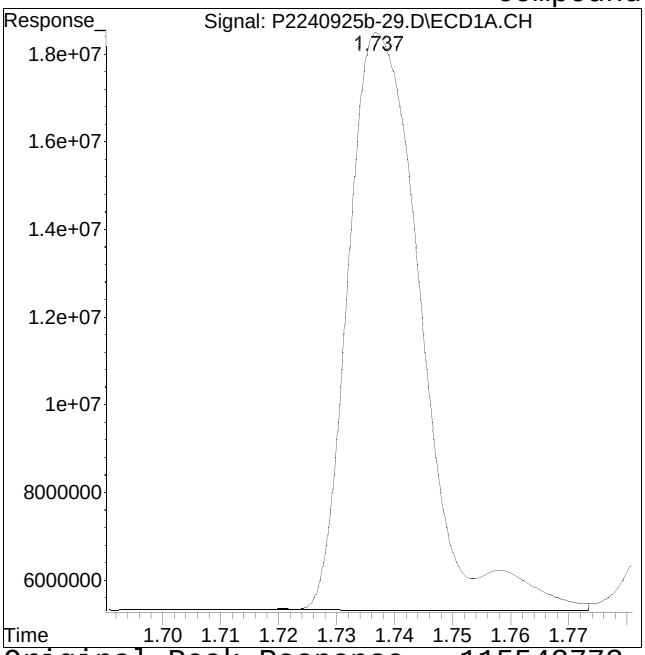


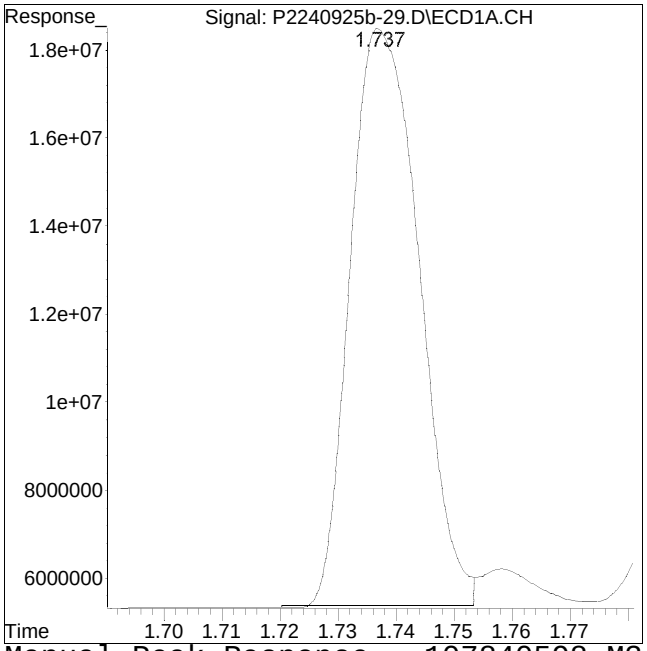
Original Peak Response = 305724926 Manual Peak Response = 287485006 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-29.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 20:39 Instrument : Pest 2
Sample : WG1976073-5,42,,cicv1660,4Quant Date : 9/25/2024 8:46 pm

Compound #5: 1016-2



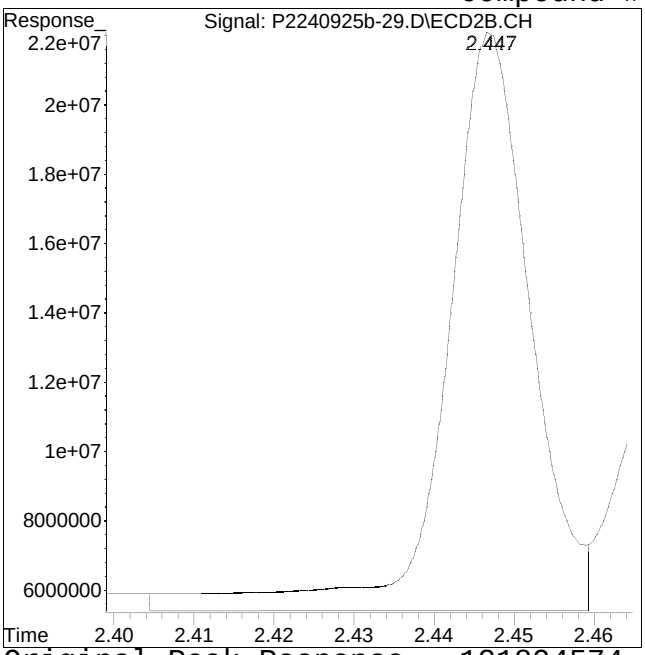


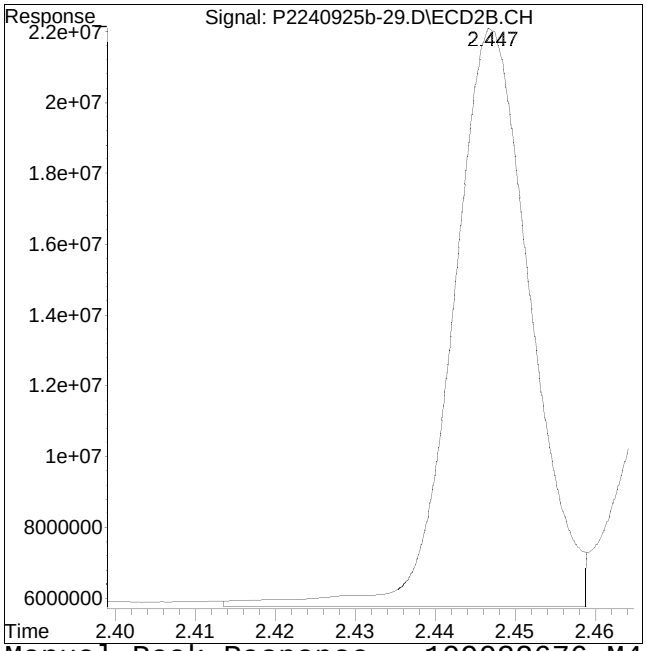
Original Peak Response = 115542773 Manual Peak Response = 107840598 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-29.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 20:39 Instrument : Pest 2
Sample : WG1976073-5,42,,cicv1660,4Quant Date : 9/25/2024 8:46 pm

Compound #59: 1016-5 #2



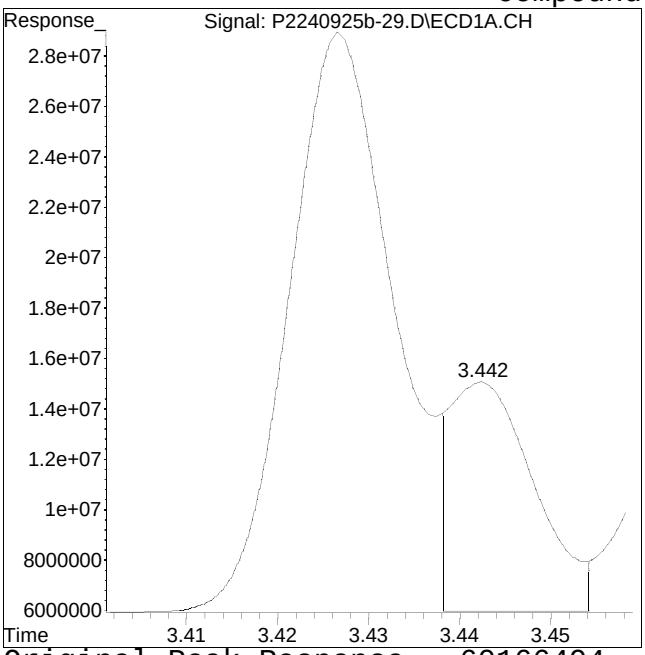


Original Peak Response = 121894574 Manual Peak Response = 109022676 M4
M4 = Poor automated baseline construction.

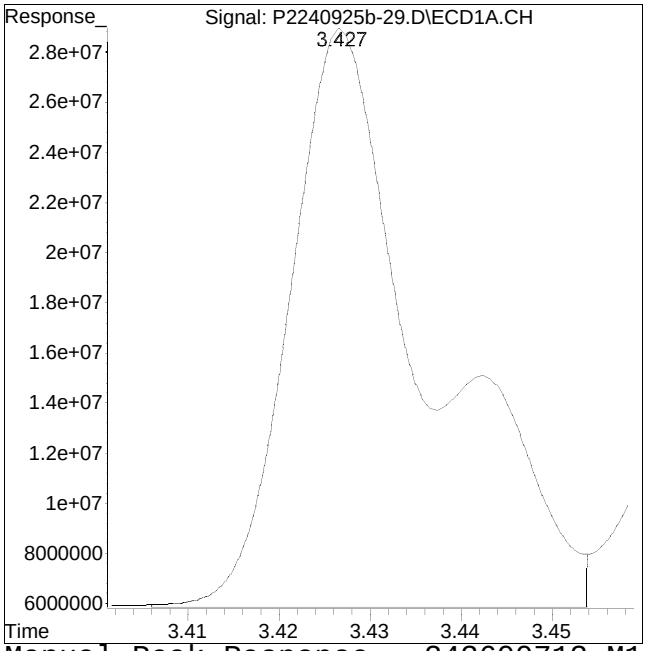
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-29.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 20:39 Instrument : Pest 2
Sample : WG1976073-5,42,,cicv1660,4Quant Date : 9/25/2024 8:46 pm

Compound #13: 1260-5



Original Peak Response = 60166494



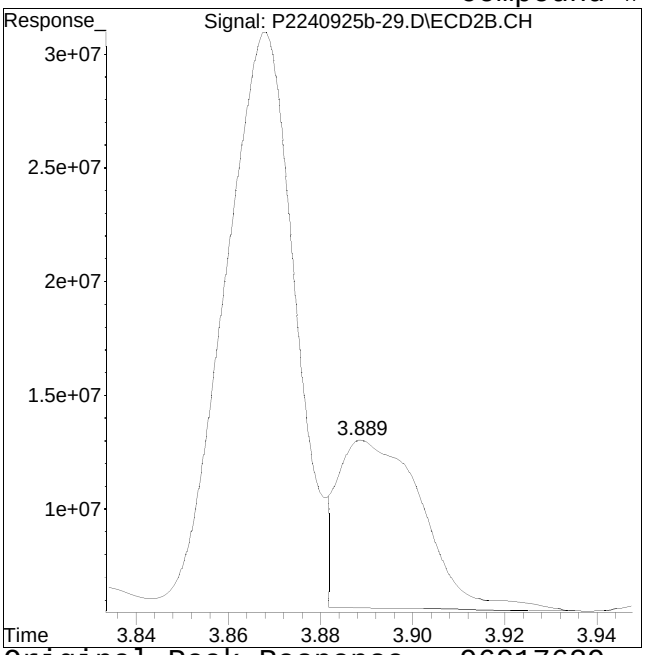
Manual Peak Response = 243600713 M1

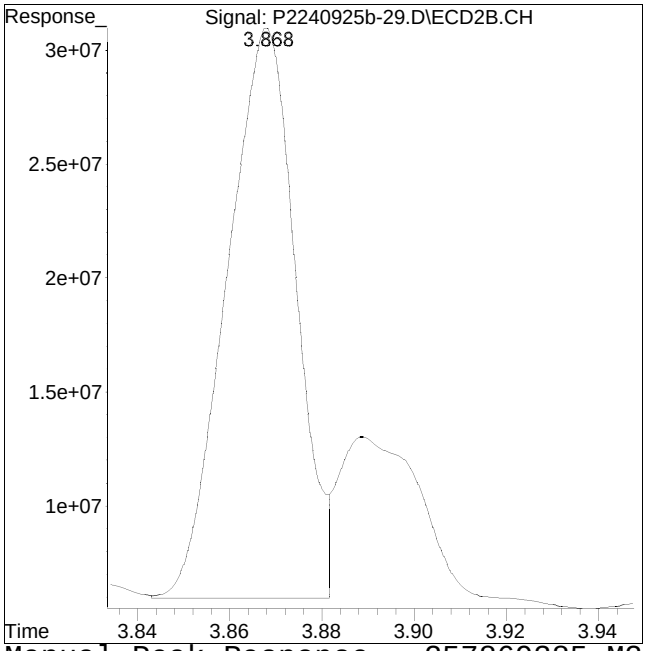
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-29.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 20:39 Instrument : Pest 2
Sample : WG1976073-5,42,,cicv1660,4Quant Date : 9/25/2024 8:46 pm

Compound #64: 1260-5 #2





Original Peak Response = 96917639 Manual Peak Response = 257869385 M2
M2 = Peak not found by automatic integration algorithm.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 21:40
Operator : pest2:mhg
Sample : WG1975830-1,42,,
Misc : WG1976073,WG1975830,ICAL21500 (Sig #1); WG1976073,WG1975874,ICAL21500 (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:18 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.249	220.5E6	274.0E6	25.000	25.000
	Standard Area 1 : #1 = 195158947				Recovery =	113.01%	
	Standard Area 1 : #2 = 287485006				Recovery =	95.30%	
14) i	2154_1br2nb	1.183	1.249	220.5E6	274.0E6	25.000	25.000
23) i	4268_1br2nb	1.183	1.249	220.5E6	274.0E6	25.000	25.000
34) i	1248_1br2nb	1.183	1.249	220.5E6	274.0E6	25.000	25.000
40) i	3262_1br2nb	1.183	1.249	220.5E6	274.0E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.616	219.1E6	261.5E6	17.116	14.568
	Spiked Amount 20.000	Range 30 - 150			Recovery =	85.58%	72.84%
3) s	Decachlorobi	4.009	4.513f	176.6E6	204.9E6	17.353	16.985
	Spiked Amount 20.000	Range 30 - 150			Recovery =	86.77%	84.92%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 21:40
Operator : pest2:mhg
Sample : WG1975830-1,42,,
Misc : WG1976073,WG1975830,ICAL21500 (Sig #1); WG1976073,WG1975874,ICAL21500 (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:18 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 21:40
Operator : pest2:mhg
Sample : WG1975830-1,42,,
Misc : WG1976073,WG1975830,ICAL21500 (Sig #1); WG1976073,WG1975874,ICAL21500 (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:18 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

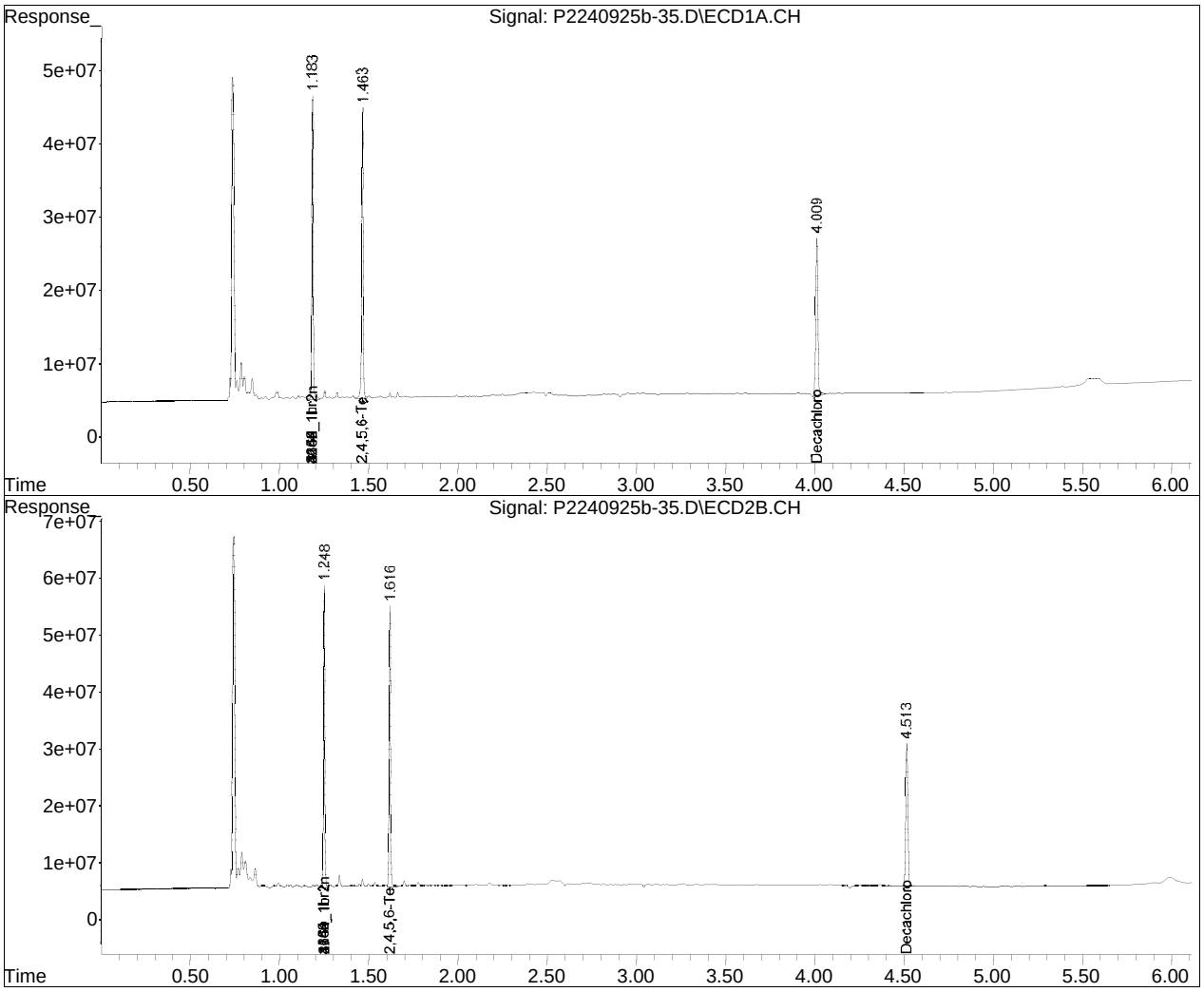
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 21:40
Operator : pest2:mhg
Sample : WG1975830-1,42,,
Misc : WG1976073,WG1975830,ICAL21500 (Sig #1); WG1976073,WG1975874,ICAL21
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:18 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2024\240925B\	QMethod	: P2_PCB_09_16_24_iRVT_ICA
Data File	: P2240925b-35.D	Operator	: pest2:mhg
Date Inj'd	: 9/25/2024 21:40	Instrument	: Pest 2
Sample	: WG1975830-1,42,,	Quant Date	: 9/26/2024 7:53 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-36.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 21:49
Operator : pest2:mhg
Sample : WG1975830-2,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:21 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.183	1.249	229.0E6	284.1E6	25.000	25.000
Standard Area 1 : #1 = 195158947				Recovery =	117.35%	
Standard Area 1 : #2 = 287485006				Recovery =	98.82%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.463	1.616	219.7E6	259.0E6	16.531	13.910
Spiked Amount 20.000	Range 30 - 150		Recovery =	82.65%	69.55%	
3) s Decachlorobi	4.009	4.513f	171.1E6	194.8E6	16.185	15.574
Spiked Amount 20.000	Range 30 - 150		Recovery =	80.92%	77.87%	
Target Compounds						
4) l1 1016-1	1.600	1.814	45614625	59997397	184.093	174.920
5) l1 1016-2	1.738	1.982	102.0E6	132.2E6	189.061M3	178.155
6) l1 1016-3	1.925	2.181	210.8E6	266.4E6	197.171	179.074
7) l1 1016-4	1.980	2.240	91953018	107.5E6	204.108	179.164
8) l1 1016-5	2.148	2.449f	98190526	93983316	197.899	196.314
Sum 1016-1			548.6E6	660.1E6	972.333	907.628
Average 1016-1					194.467	181.526
9) l2 1260-1	2.686	3.052f	133.9E6	176.1E6	196.140	188.622
10) l2 1260-2	2.815	3.152f	207.1E6	197.5E6	199.635	179.077
11) l2 1260-3	3.128	3.541f	127.4E6	165.7E6	202.815	183.746
12) l2 1260-4	3.281	3.669f	286.8E6	333.1E6	208.005M2	188.678
13) l2 1260-5	3.428	3.869f	208.2E6	242.9E6	211.365M2	193.299M2
Sum 1260-1			963.4E6	1115.4E6	1017.960	933.421
Average 1260-1					203.592	186.684
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-36.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 21:49
Operator : pest2:mhg
Sample : WG1975830-2,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:21 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

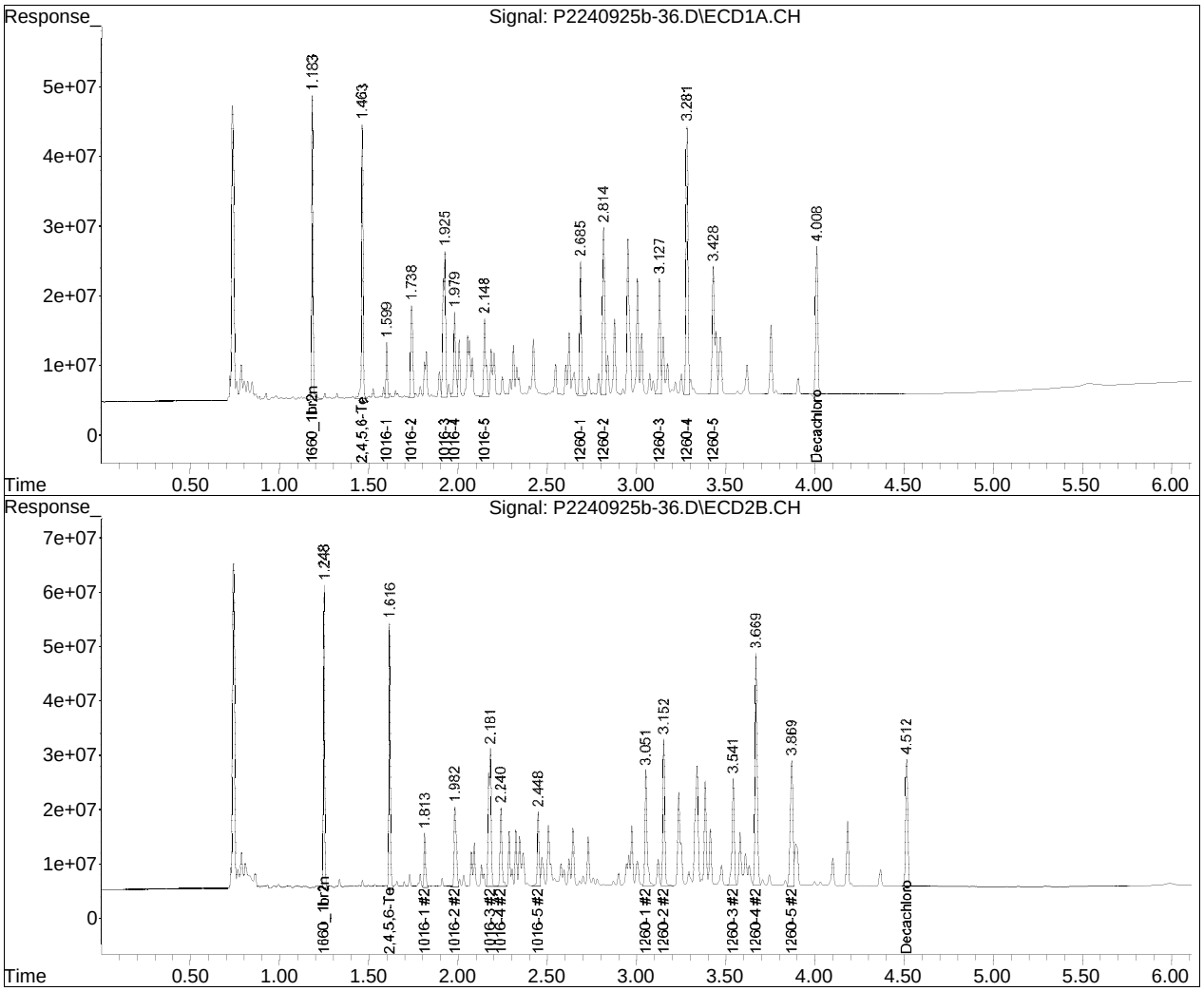
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240925B\P2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-36.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 21:49
Operator : pest2:mhg
Sample : WG1975830-2,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:21 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

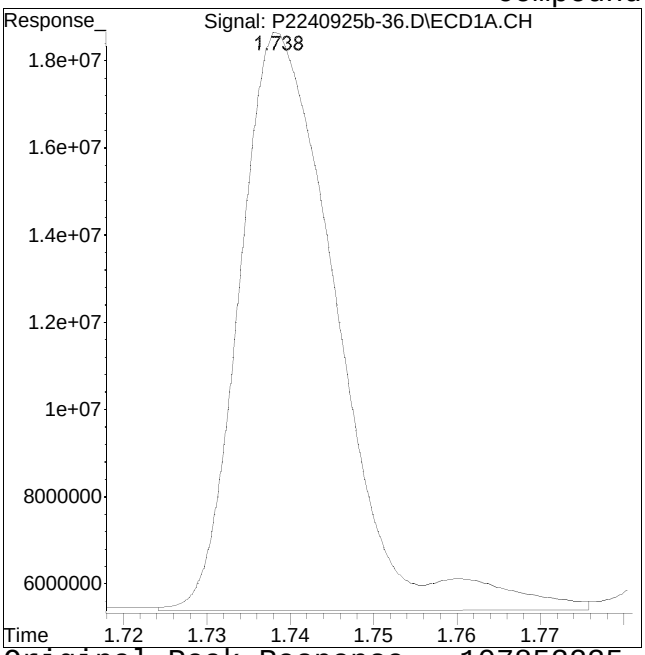
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

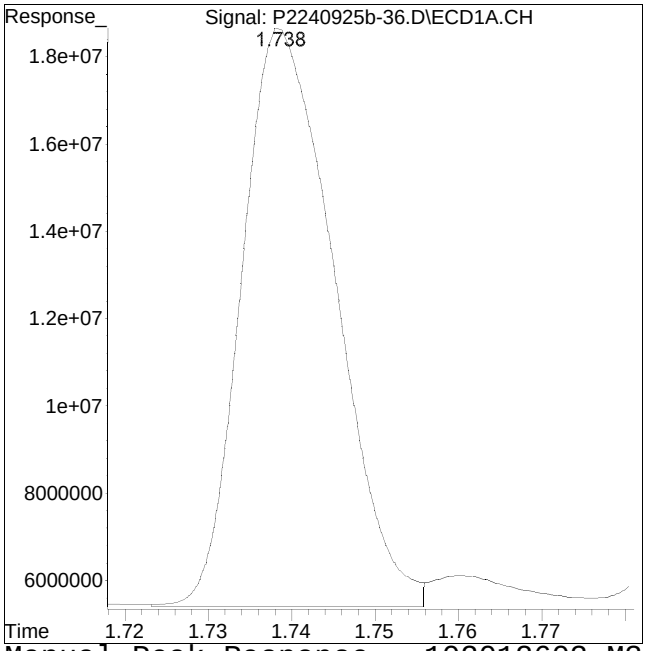


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-36.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 21:49 Instrument : Pest 2
Sample : WG1975830-2,42,, Quant Date : 9/26/2024 7:53 am

Compound #5: 1016-2



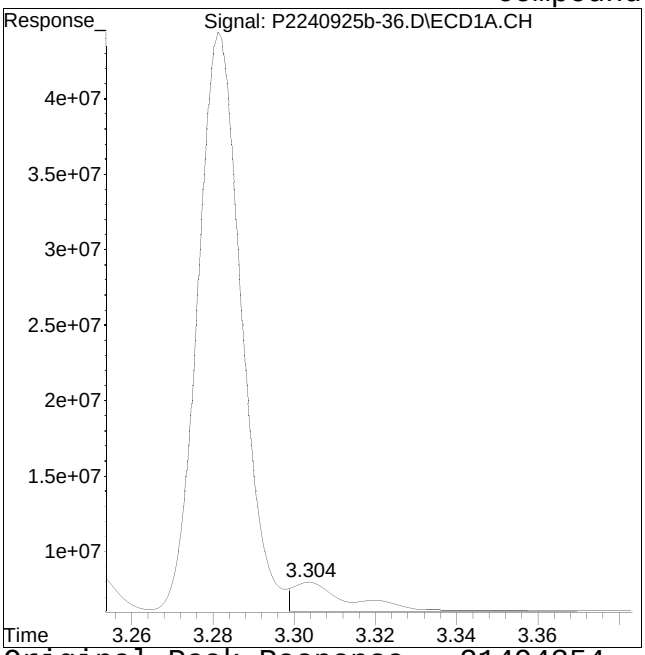


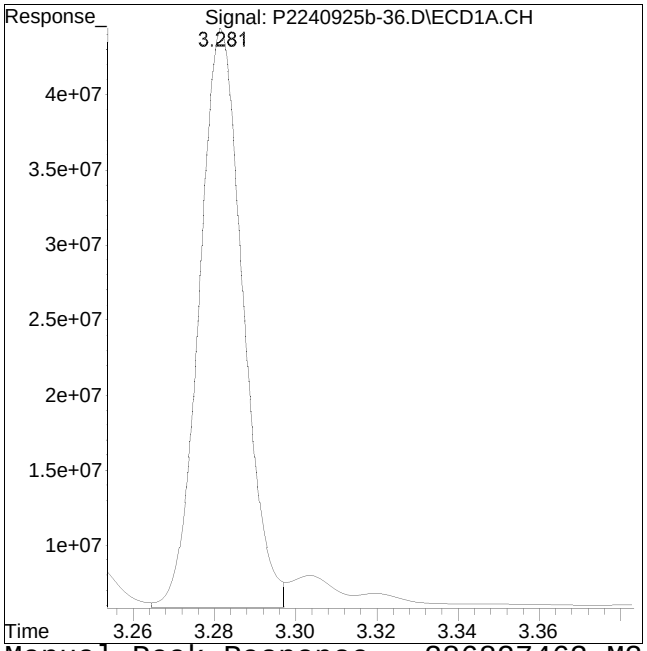
Original Peak Response = 107852235 Manual Peak Response = 102012603 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-36.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 21:49 Instrument : Pest 2
Sample : WG1975830-2,42,, Quant Date : 9/26/2024 7:53 am

Compound #12: 1260-4



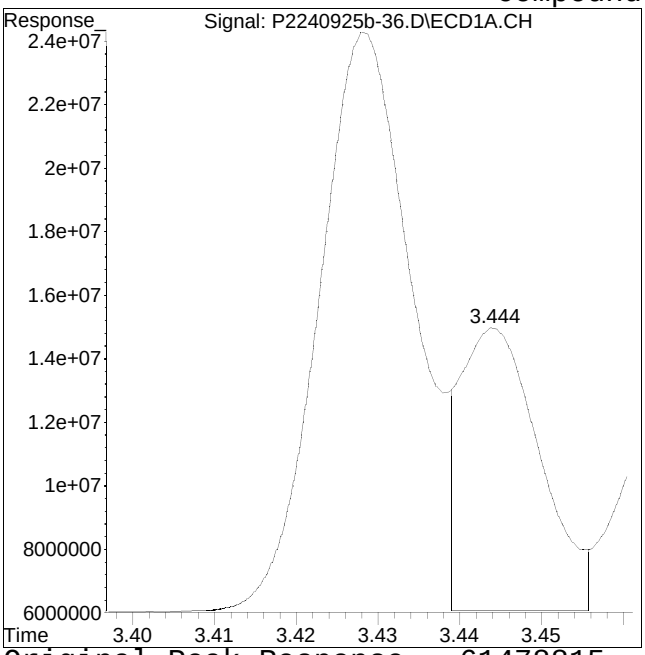


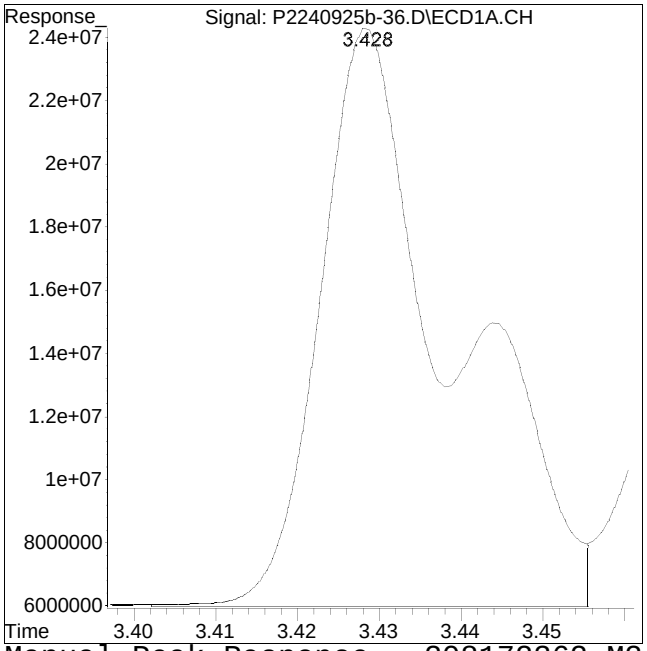
Original Peak Response = 21494354 Manual Peak Response = 286827463 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-36.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 21:49 Instrument : Pest 2
Sample : WG1975830-2,42,, Quant Date : 9/26/2024 7:53 am

Compound #13: 1260-5



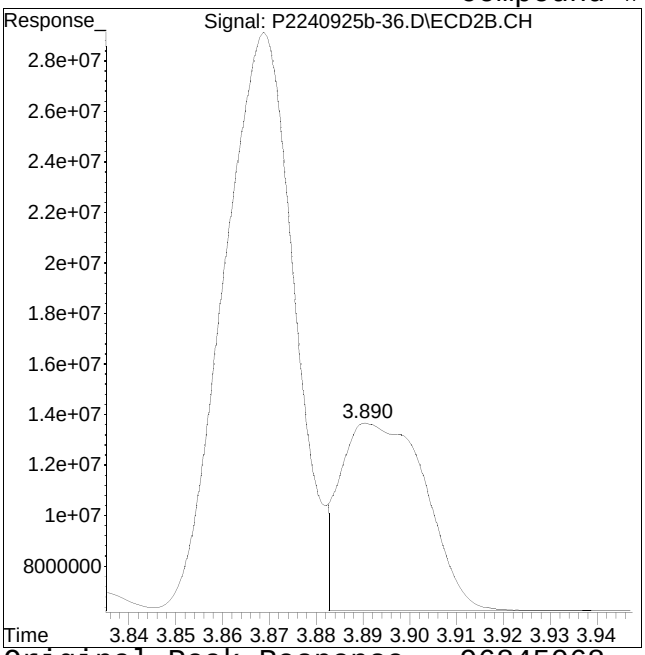


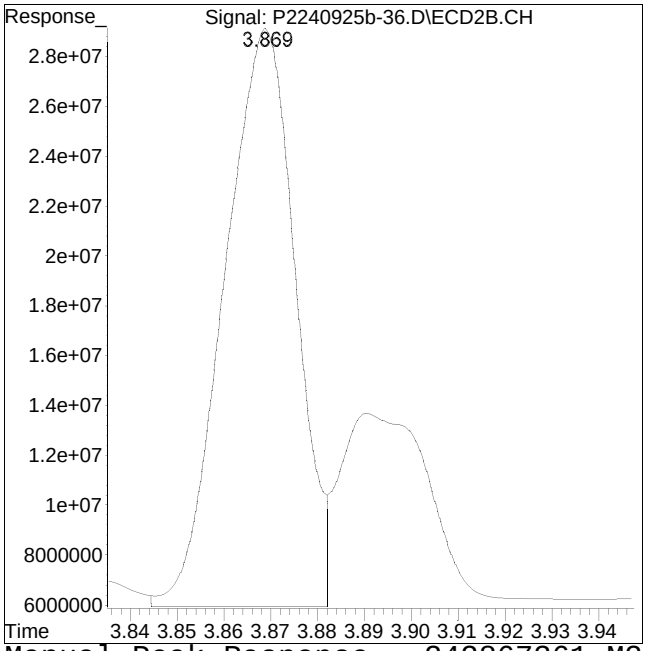
Original Peak Response = 61478815 Manual Peak Response = 208172362 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-36.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 21:49 Instrument : Pest 2
Sample : WG1975830-2,42,, Quant Date : 9/26/2024 7:53 am

Compound #64: 1260-5 #2





Original Peak Response = 96845068 Manual Peak Response = 242867361 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-37.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 21:57
Operator : pest2:mhg
Sample : WG1975830-3,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:24 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.183	1.249	222.4E6	277.1E6	25.000	25.000
Standard Area 1 : #1 = 195158947				Recovery =	113.96%	
Standard Area 1 : #2 = 287485006				Recovery =	96.39%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.463	1.617	225.8E6	270.8E6	17.493	14.912
Spiked Amount 20.000	Range 30 - 150		Recovery =	87.46%	74.56%	
3) s Decachlorobi	4.008	4.513f	186.2E6	219.2E6	18.140M3	17.964
Spiked Amount 20.000	Range 30 - 150		Recovery =	90.70%	89.82%	
Target Compounds						
4) l1 1016-1	1.600	1.814	47316153	61047034	196.651	182.465
5) l1 1016-2	1.739	1.983	106.1E6	135.6E6	202.431	187.299
6) l1 1016-3	1.925	2.181	222.9E6	280.0E6	214.705	192.984
7) l1 1016-4	1.980	2.241	94526361	110.9E6	216.072	189.392
8) l1 1016-5	2.148	2.450f	99174520	92310727	205.839	197.678
Sum 1016-1			570.0E6	679.9E6	1035.699	949.818
Average 1016-1					207.140	189.964
9) l2 1260-1	2.686	3.052f	139.5E6	187.2E6	210.357	205.562
10) l2 1260-2	2.815	3.153f	219.3E6	207.9E6	217.754	193.207
11) l2 1260-3	3.127	3.541f	134.8E6	176.1E6	221.101	200.194
12) l2 1260-4	3.281	3.670f	312.6E6	360.6E6	233.446M2	209.408
13) l2 1260-5	3.428f	3.892	231.5E6	107.1E6	242.055M2	87.350
Sum 1260-1			1037.8E6	1038.9E6	1124.714	895.720
Average 1260-1					224.943	179.144
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-37.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 21:57
Operator : pest2:mhg
Sample : WG1975830-3,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:24 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

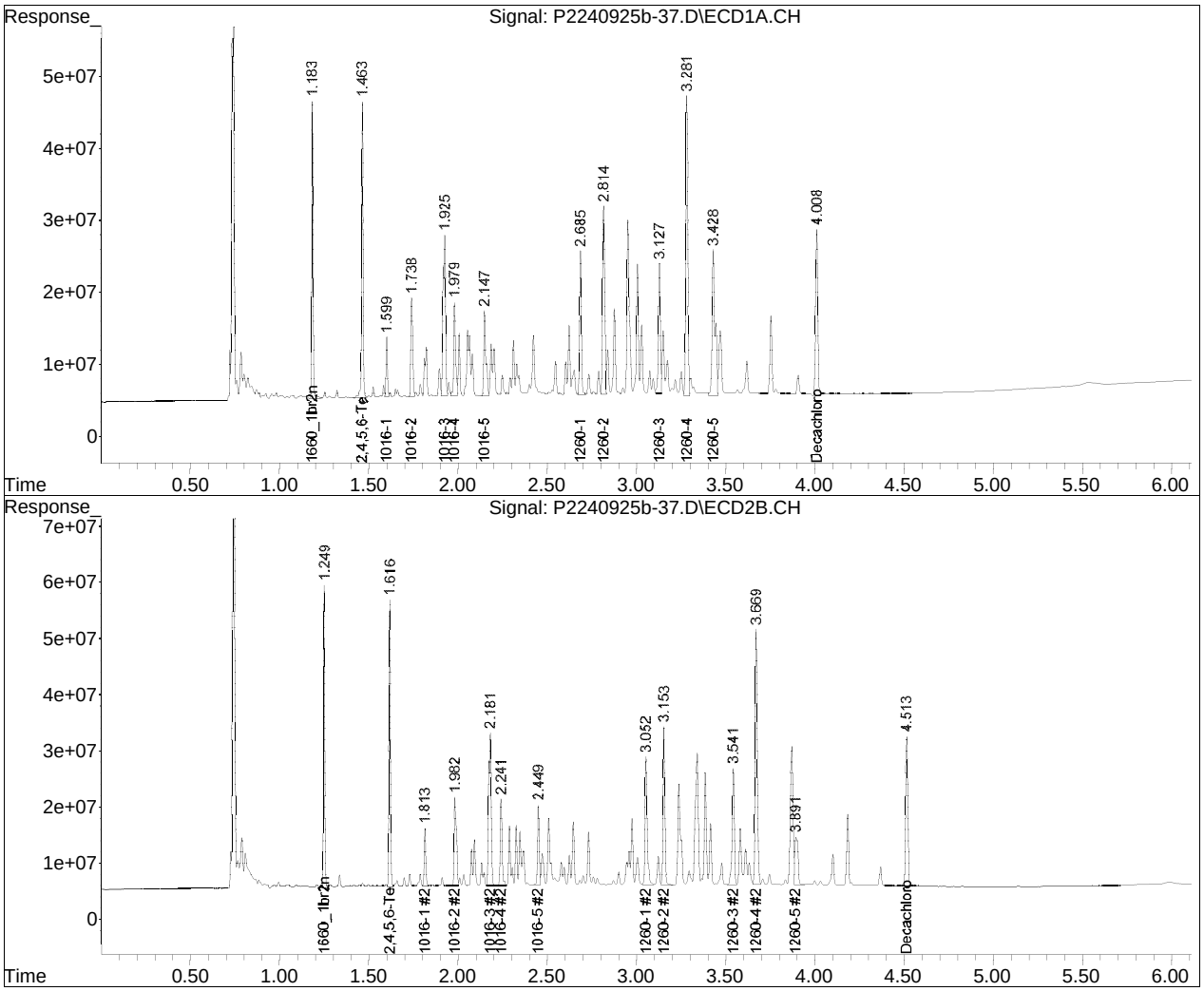
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240925B\P2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-37.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 21:57
Operator : pest2:mhg
Sample : WG1975830-3,42,,
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:24 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

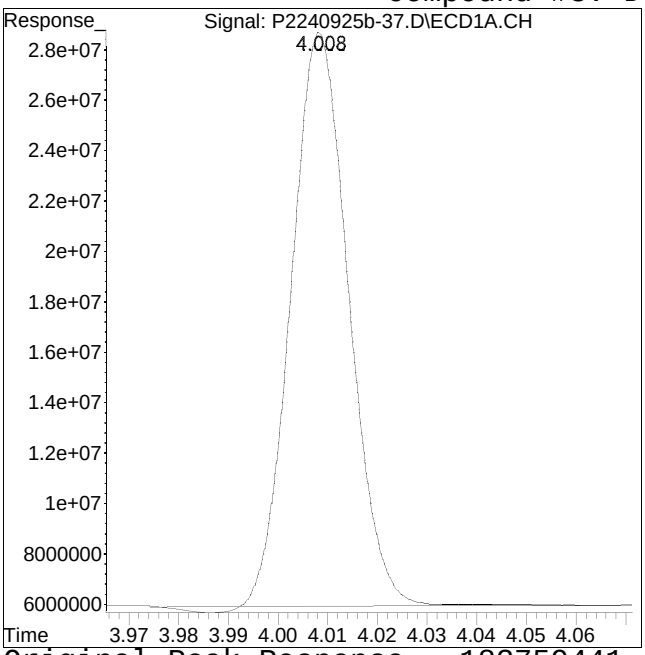
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

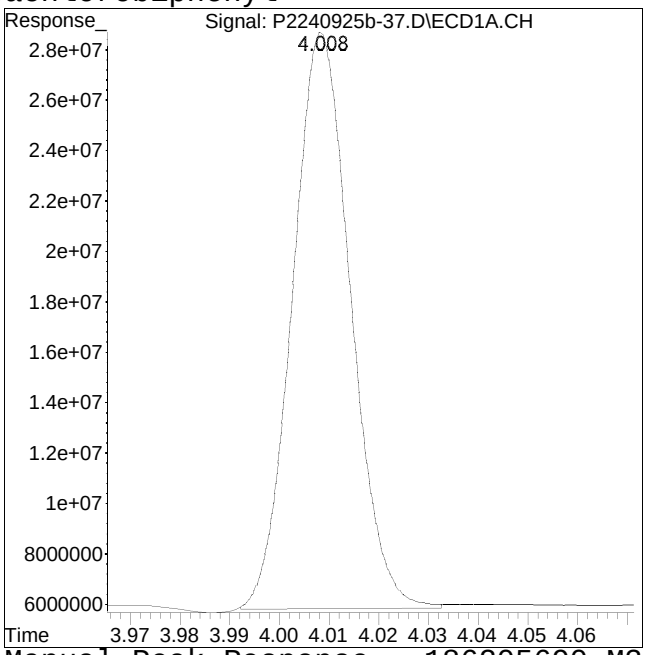


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-37.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 21:57 Instrument : Pest 2
Sample : WG1975830-3,42,, Quant Date : 9/26/2024 7:53 am

Compound #3: Decachlorobiphenyl



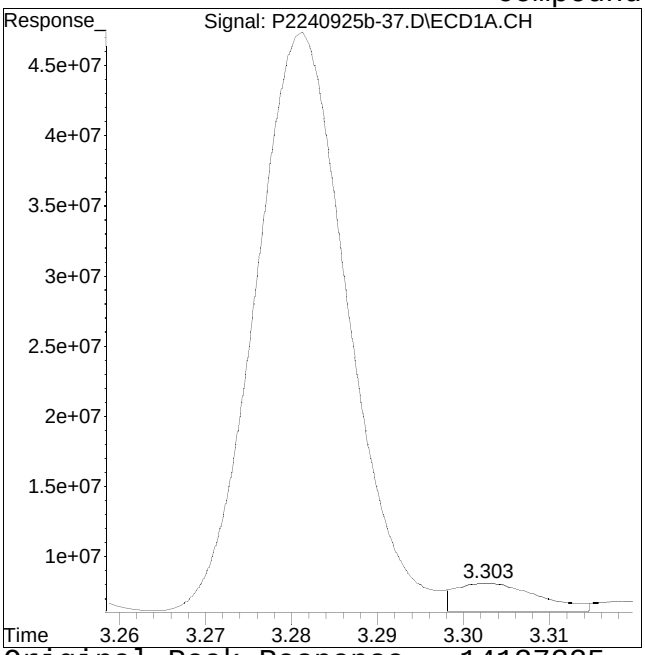


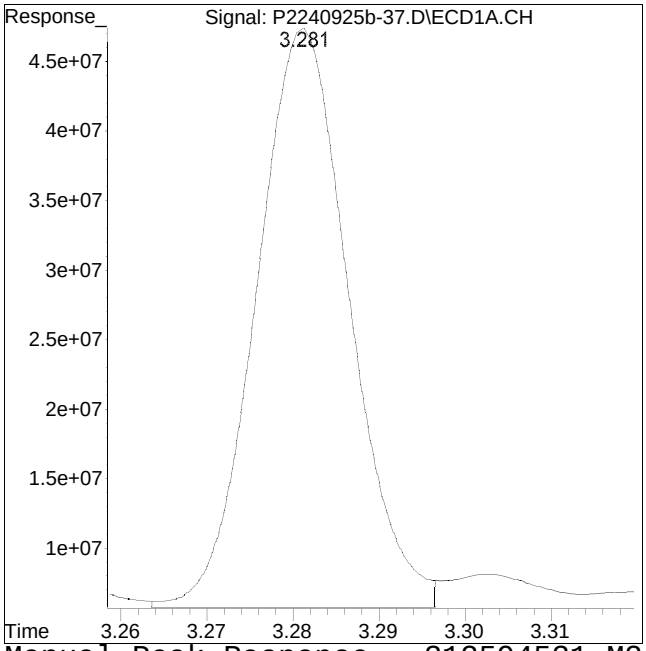
Original Peak Response = 183759441 Manual Peak Response = 186205690 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-37.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 21:57 Instrument : Pest 2
Sample : WG1975830-3,42,, Quant Date : 9/26/2024 7:53 am

Compound #12: 1260-4



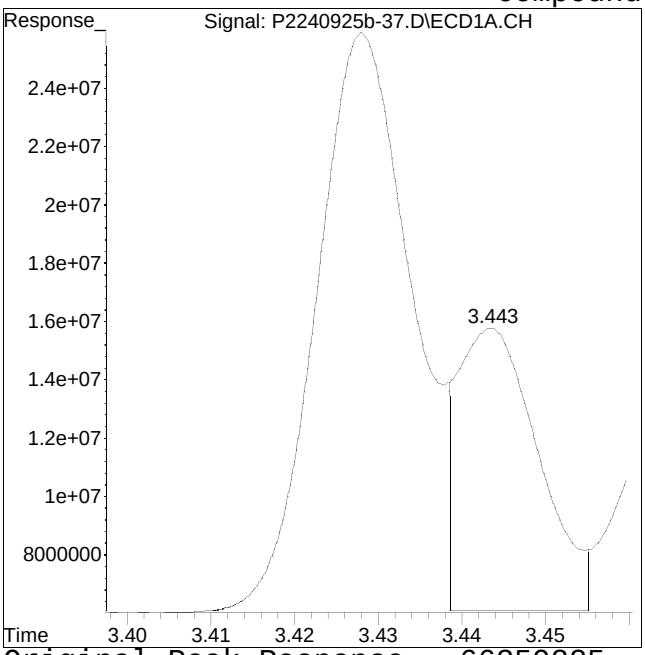


Original Peak Response = 14137335 Manual Peak Response = 312594531 M2
M2 = Peak not found by automatic integration algorithm.

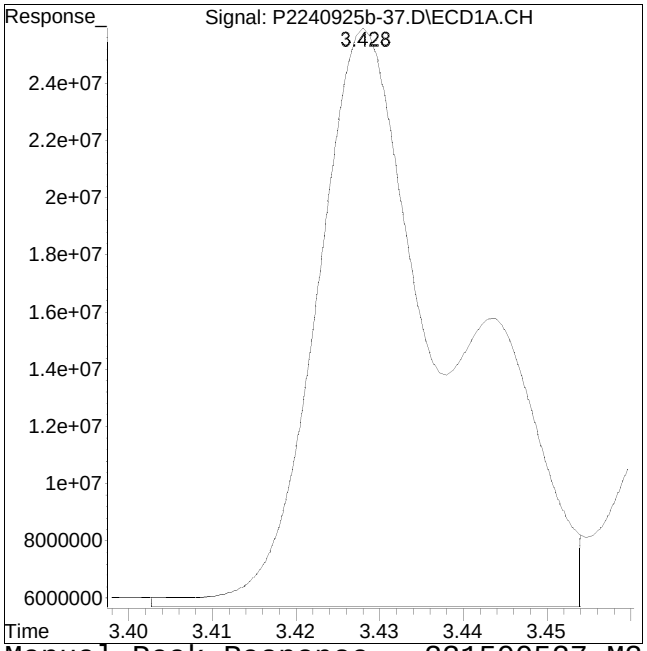
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-37.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 21:57 Instrument : Pest 2
Sample : WG1975830-3,42,, Quant Date : 9/26/2024 7:53 am

Compound #13: 1260-5



Original Peak Response = 66359225



Manual Peak Response = 231500527 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-40.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:23
Operator : pest2:mhg
Sample : WG1975830-4,42,, ms
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 40 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:33 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.184	1.249	220.5E6	271.8E6	25.000	25.000
Standard Area 1 : #1 = 195158947				Recovery =	112.97%	
Standard Area 1 : #2 = 287485006				Recovery =	94.55%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.464	1.617	200.9E6	241.1E6	15.702	13.535
Spiked Amount 20.000	Range 30 - 150		Recovery =	78.51%	67.67%	
3) s Decachlorobi	4.009	4.513f	166.6E6	181.5E6	16.376M3	15.164
Spiked Amount 20.000	Range 30 - 150		Recovery =	81.88%	75.82%	
Target Compounds						
4) l1 1016-1	1.600	1.814	43566152	58018724	182.656	176.785
5) l1 1016-2	1.739	1.983	96836733	127.4E6	186.440M3	179.430
6) l1 1016-3	1.926	2.182	202.8E6	253.4E6	197.059	178.024
7) l1 1016-4	1.980	2.241	87505905	103.2E6	201.781	179.704
8) l1 1016-5	2.149	2.450f	92582873	89355926	193.845	195.071
Sum 1016-1			523.3E6	631.4E6	961.780	909.015
Average 1016-1					192.356	181.803
9) l2 1260-1	2.686	3.052f	127.9E6	167.3E6	194.646	187.215
10) l2 1260-2	2.816	3.153f	198.4E6	184.1E6	198.671	174.385
11) l2 1260-3	3.128	3.542f	117.8E6	155.3E6	194.803M2	180.000
12) l2 1260-4	3.282	3.670f	280.6E6	311.3E6	211.373M2	184.308
13) l2 1260-5	3.429	3.869f	205.3E6	237.4E6	216.521M2	197.502M2
Sum 1260-1			929.9E6	1055.4E6	1016.014	923.410
Average 1260-1					203.203	184.682
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-40.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:23
Operator : pest2:mhg
Sample : WG1975830-4,42,, ms
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 40 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:33 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

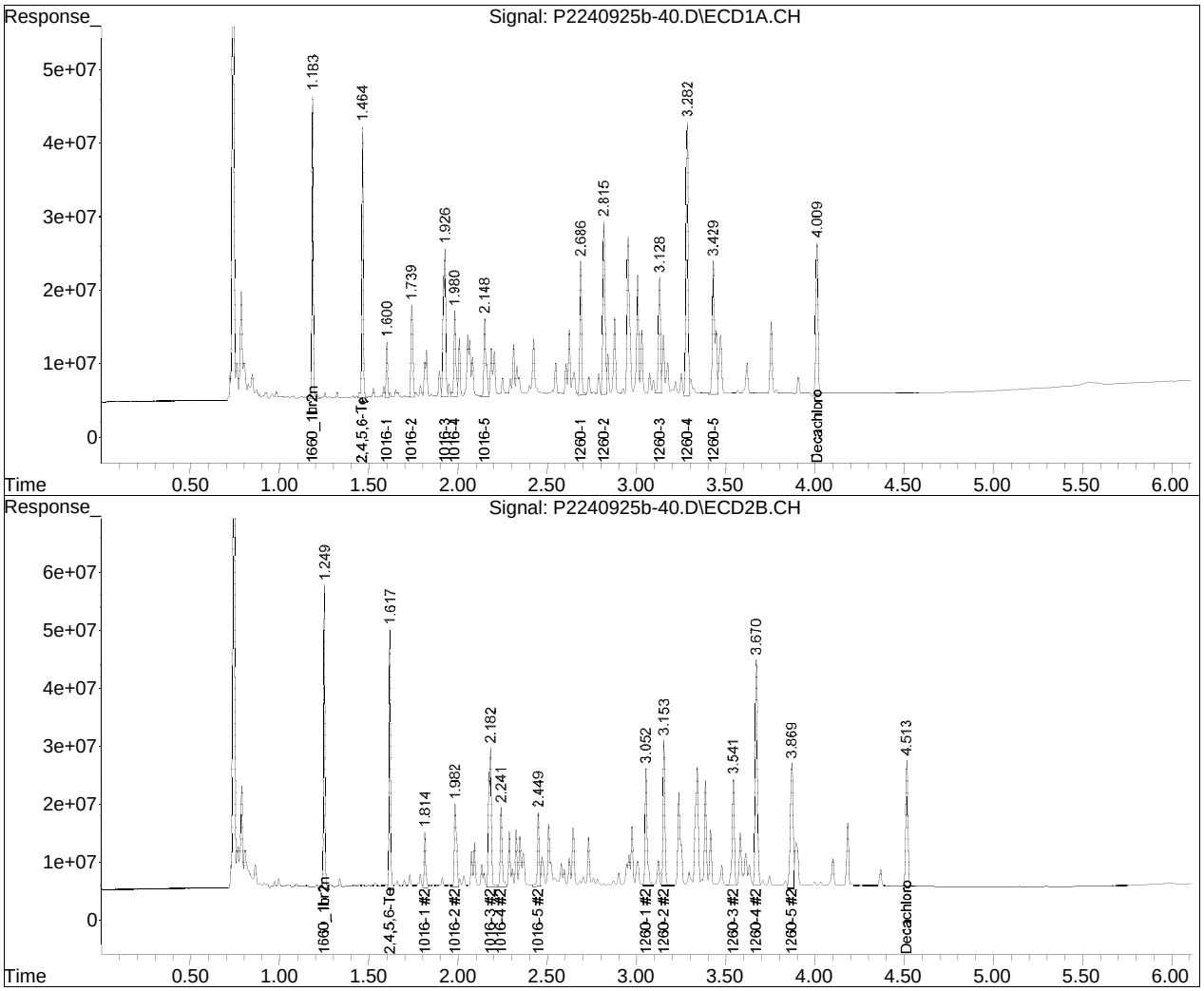
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240925B\P2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-40.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:23
Operator : pest2:mhg
Sample : WG1975830-4,42,, ms
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 40 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:33 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

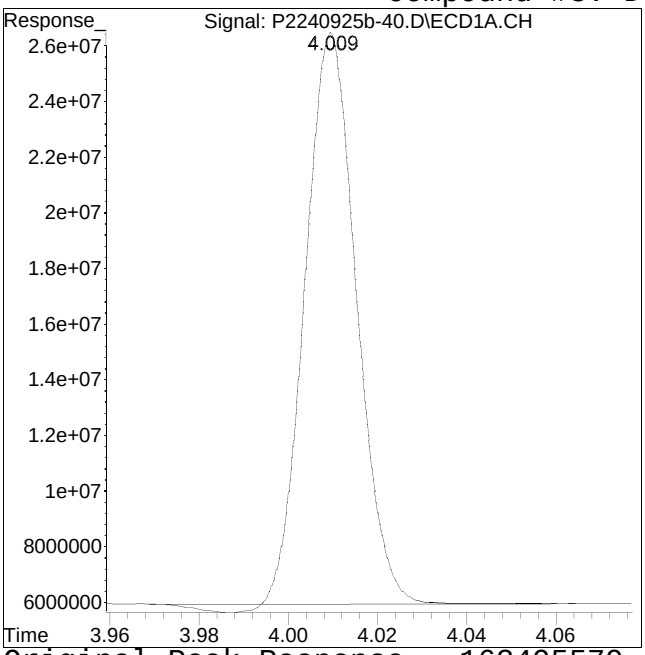
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

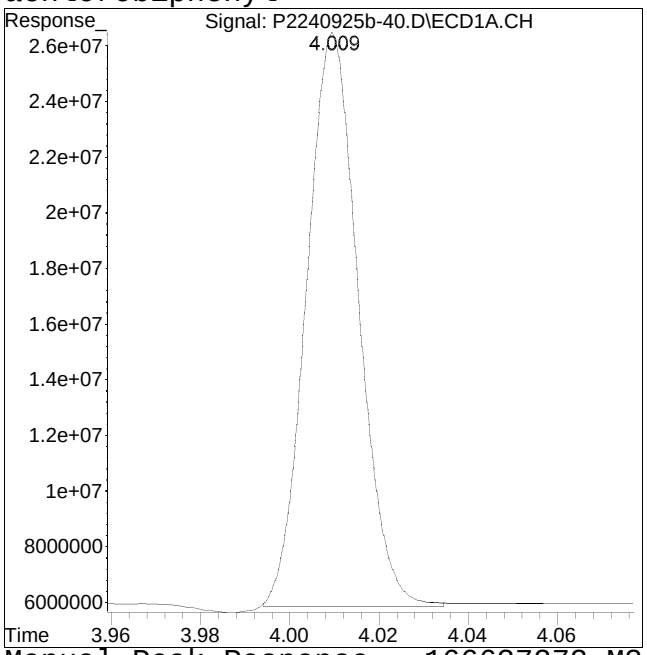


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-40.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:23 Instrument : Pest 2
Sample : WG1975830-4,42,, ms Quant Date : 9/26/2024 7:53 am

Compound #3: Decachlorobiphenyl



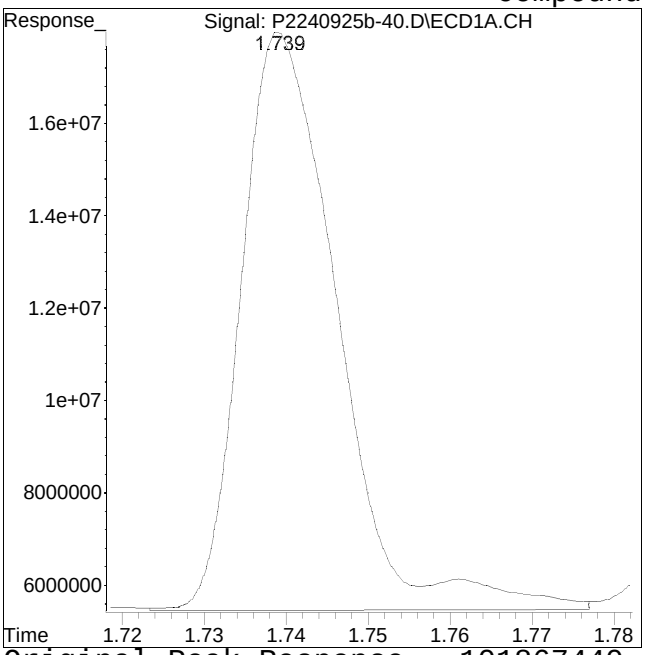


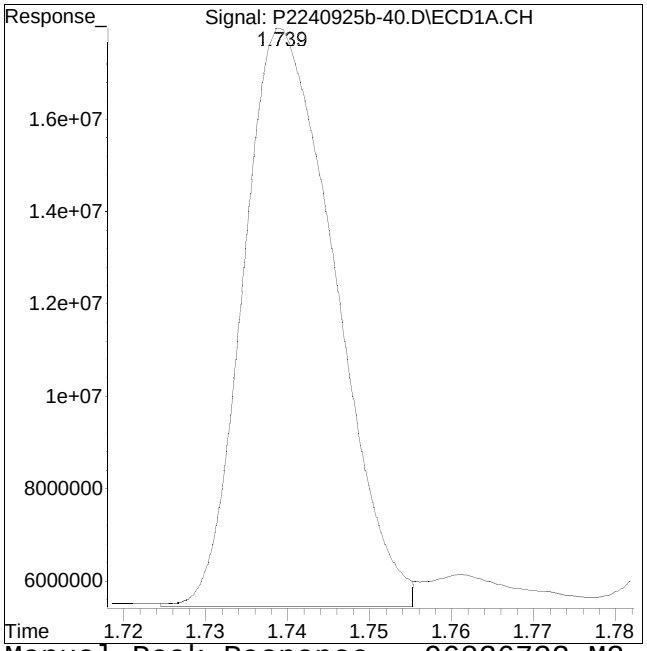
Original Peak Response = 163495579 Manual Peak Response = 166637272 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-40.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:23 Instrument : Pest 2
Sample : WG1975830-4,42,, ms Quant Date : 9/26/2024 7:53 am

Compound #5: 1016-2



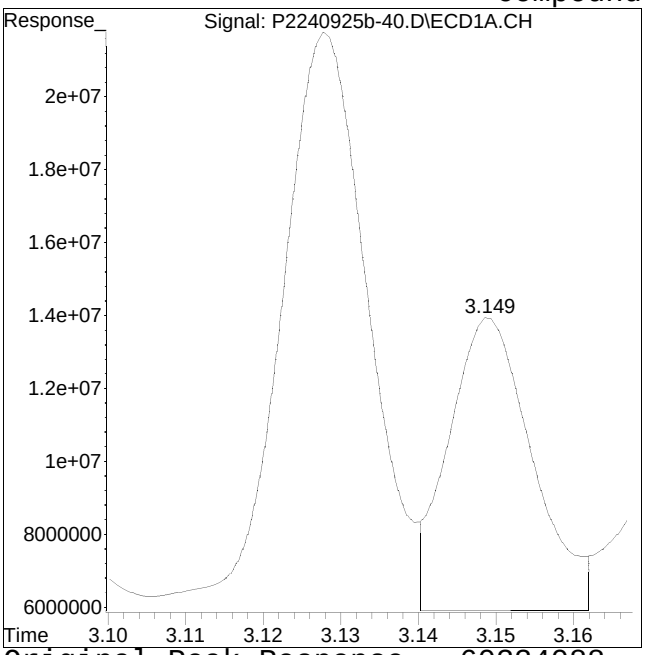


Original Peak Response = 101867440 Manual Peak Response = 96836733 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

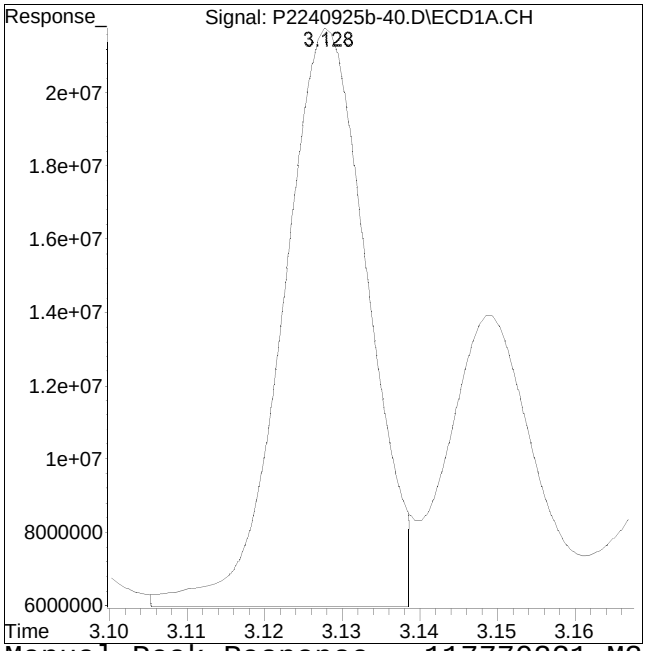
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-40.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:23 Instrument : Pest 2
Sample : WG1975830-4,42,, ms Quant Date : 9/26/2024 7:53 am

Compound #11: 1260-3



Original Peak Response = 60334088



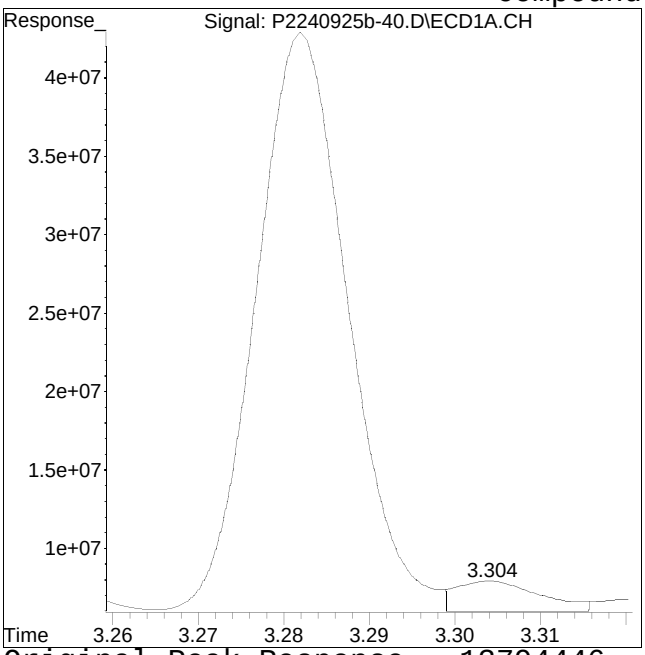
Manual Peak Response = 117770221 M2

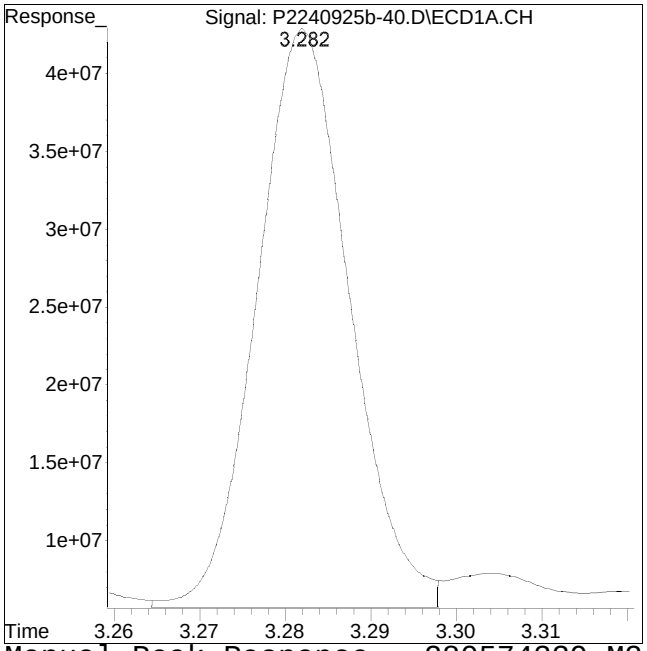
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-40.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:23 Instrument : Pest 2
Sample : WG1975830-4,42,, ms Quant Date : 9/26/2024 7:53 am

Compound #12: 1260-4



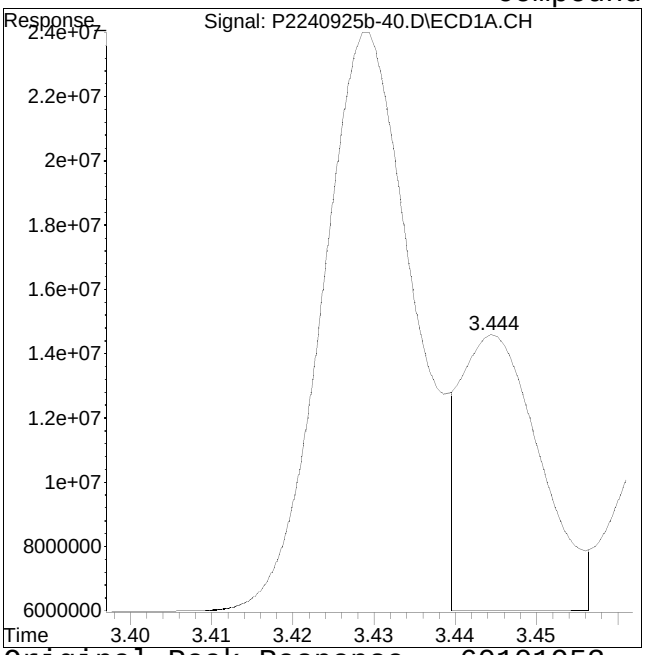


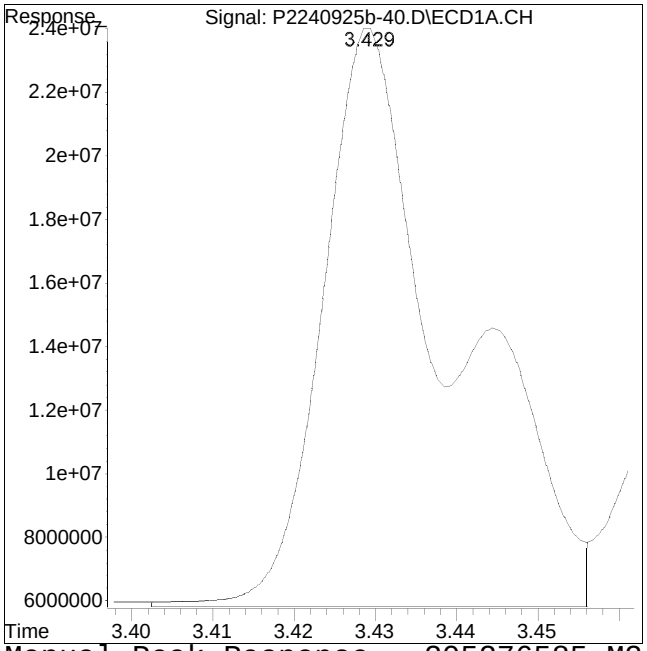
Original Peak Response = 13794446 Manual Peak Response = 280574339 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-40.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:23 Instrument : Pest 2
Sample : WG1975830-4,42,, ms Quant Date : 9/26/2024 7:53 am

Compound #13: 1260-5



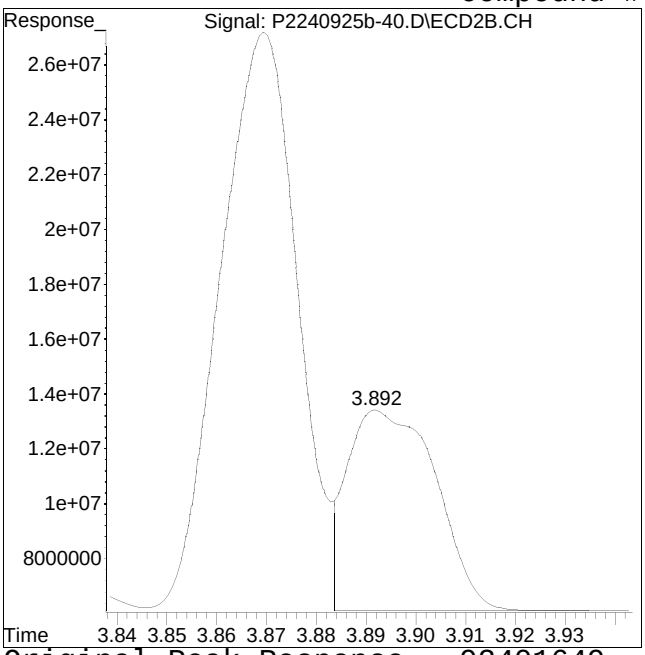


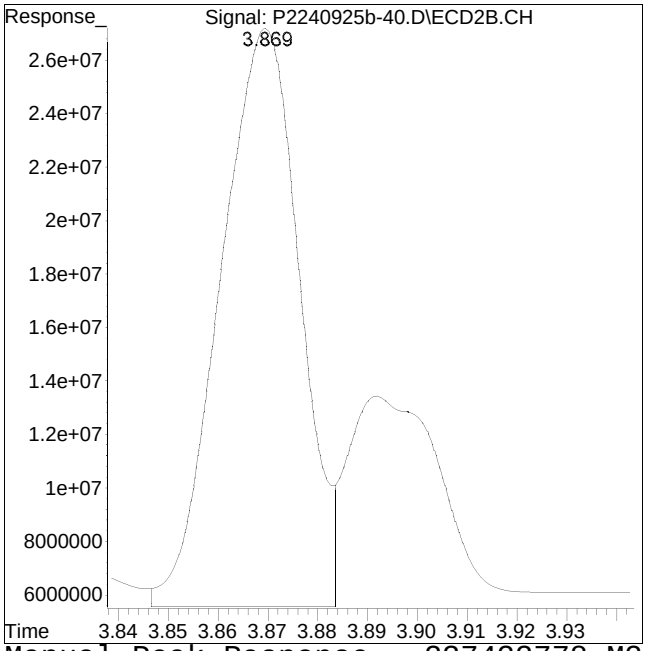
Original Peak Response = 60101953 Manual Peak Response = 205276585 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-40.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:23 Instrument : Pest 2
Sample : WG1975830-4,42,, ms Quant Date : 9/26/2024 7:53 am

Compound #64: 1260-5 #2





Original Peak Response = 92401649 Manual Peak Response = 237433778 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-41.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:32
Operator : pest2:mhg
Sample : WG1975830-5,42,, msd
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:36 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.183	1.250	221.8E6	276.8E6	25.000M3	25.000
Standard Area 1 : #1 = 195158947				Recovery =	113.63%	
Standard Area 1 : #2 = 287485006				Recovery =	96.27%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.463	1.618	225.2E6	258.1E6	17.497	14.228
Spiked Amount	20.000	Range 30 - 150		Recovery =	87.48%	71.14%
3) s Decachlorobi	4.009	4.513f	187.4E6	192.1E6	18.309	15.763
Spiked Amount	20.000	Range 30 - 150		Recovery =	91.55%	78.81%
Target Compounds						
4) l1 1016-1	1.600	1.815	46733481	59076512	194.783	176.786
5) l1 1016-2	1.739	1.983	105.1E6	131.6E6	201.206	181.932
6) l1 1016-3	1.925	2.182	221.6E6	267.2E6	214.018	184.341
7) l1 1016-4	1.979	2.241	96072537	105.8E6	220.232	180.953
8) l1 1016-5	2.148	2.450f	101.9E6	90208010	212.148	193.406
Sum 1016-1			571.4E6	653.8E6	1042.386	917.418
Average 1016-1					208.477	183.484
9) l2 1260-1	2.685	3.053f	143.3E6	169.7E6	216.678	186.522
10) l2 1260-2	2.815	3.153f	219.7E6	193.0E6	218.728	179.533
11) l2 1260-3	3.127	3.542f	136.1E6	162.6E6	223.841M2	185.090
12) l2 1260-4	3.281	3.670f	304.3E6	327.5E6	227.897M3	190.421
13) l2 1260-5	3.428	3.870f	215.9E6	242.5E6	226.435M2	198.142M4
Sum 1260-1			1019.3E6	1095.3E6	1113.579	939.708
Average 1260-1					222.716	187.942
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-41.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:32
Operator : pest2:mhg
Sample : WG1975830-5,42,, msd
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:36 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2024\240925B\P2240925b-29.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

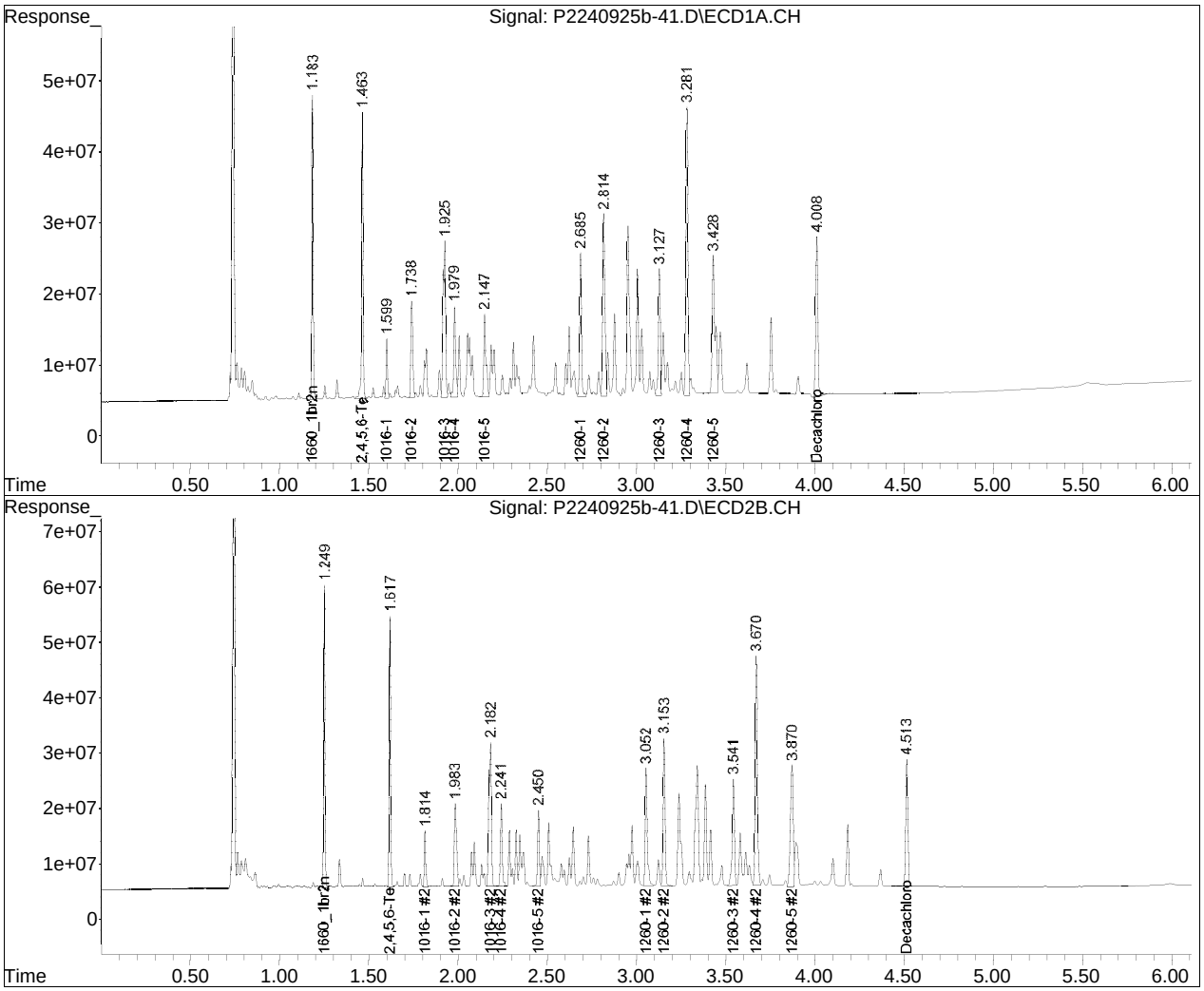
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2024\240925B\P2240925b-29.D•

Data Path : I:\PCB\Pest2\2024\240925B\
Data File : P2240925b-41.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 22:32
Operator : pest2:mhg
Sample : WG1975830-5,42,, msd
Misc : WG1976073,WG1975830,ICAL21500
ALS Vial : 41 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Sep 26 07:53:36 2024
Quant Method : I:\PCB\Pest2\2024\240925B\P2_PCB_09_16_24_iRVT_ICAL21500.m
Quant Title : pcb
QLast Update : Tue Sep 17 11:03:22 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

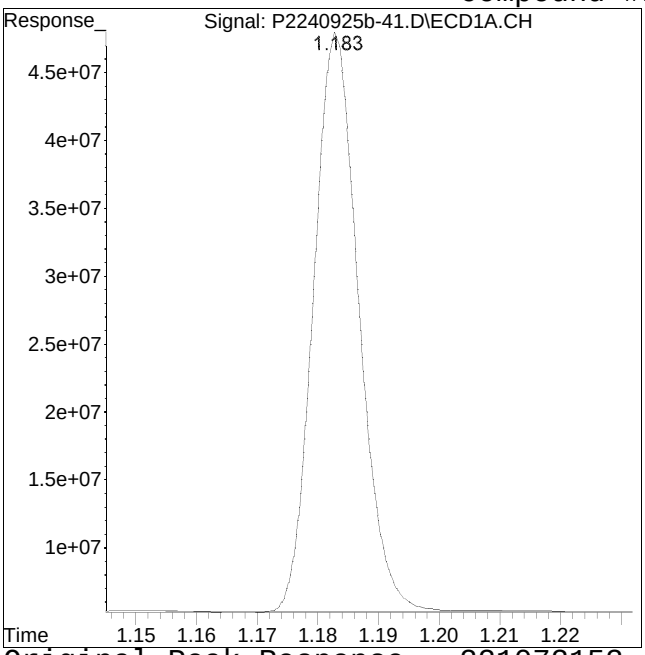
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

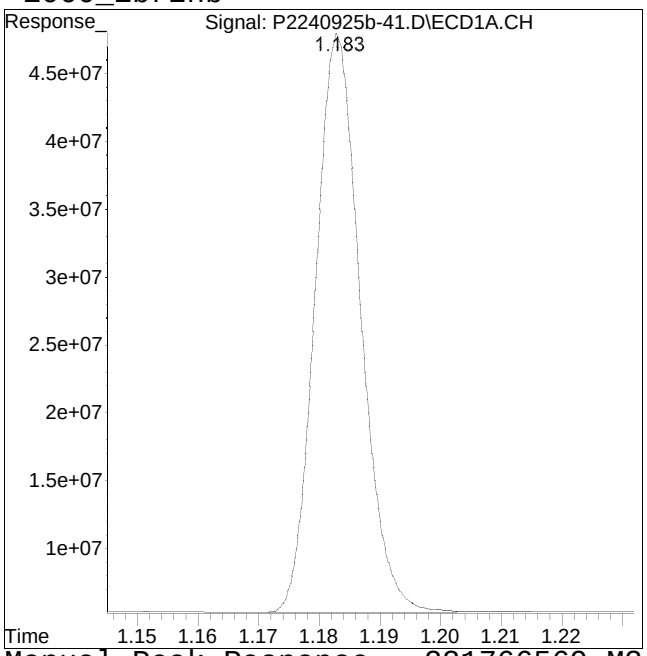


Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-41.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:32 Instrument : Pest 2
Sample : WG1975830-5,42,, msd Quant Date : 9/26/2024 7:53 am

Compound #1: 1660_1br2nb



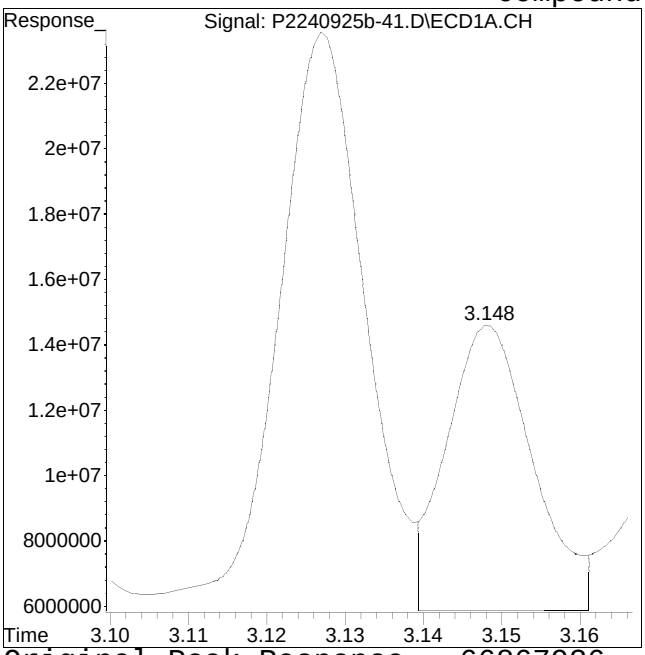


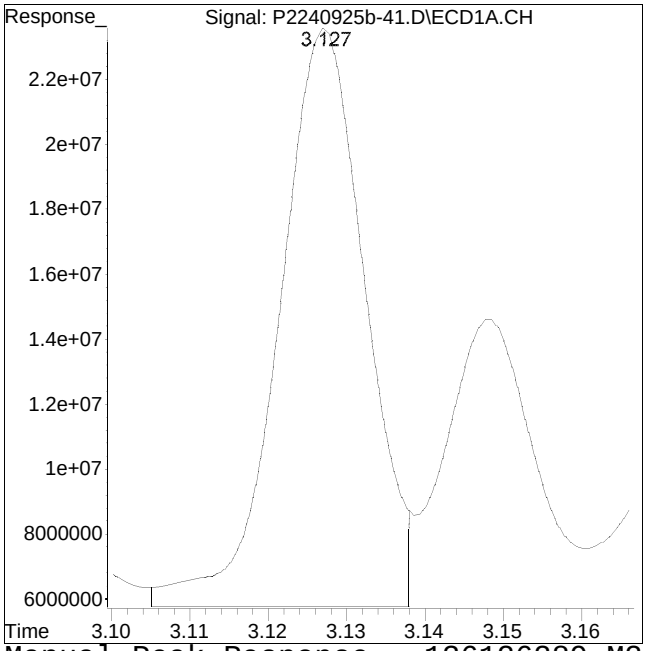
Original Peak Response = 221072153 Manual Peak Response = 221766569 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-41.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:32 Instrument : Pest 2
Sample : WG1975830-5,42,, msd Quant Date : 9/26/2024 7:53 am

Compound #11: 1260-3



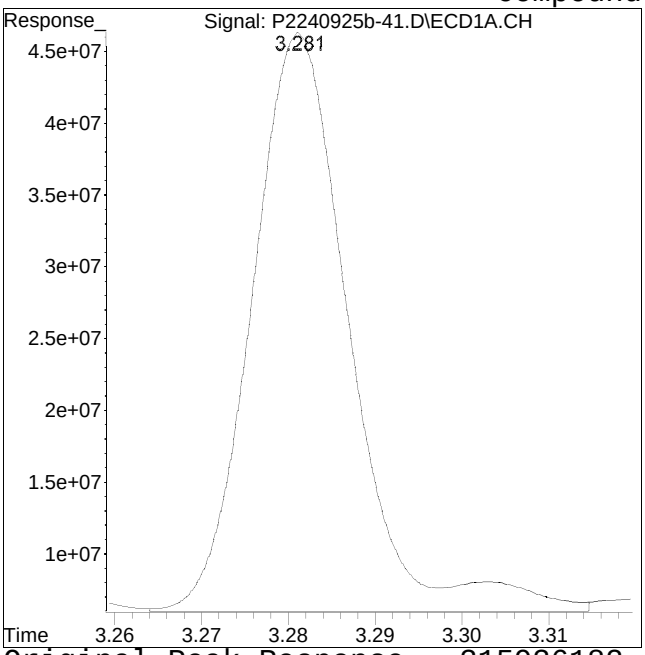


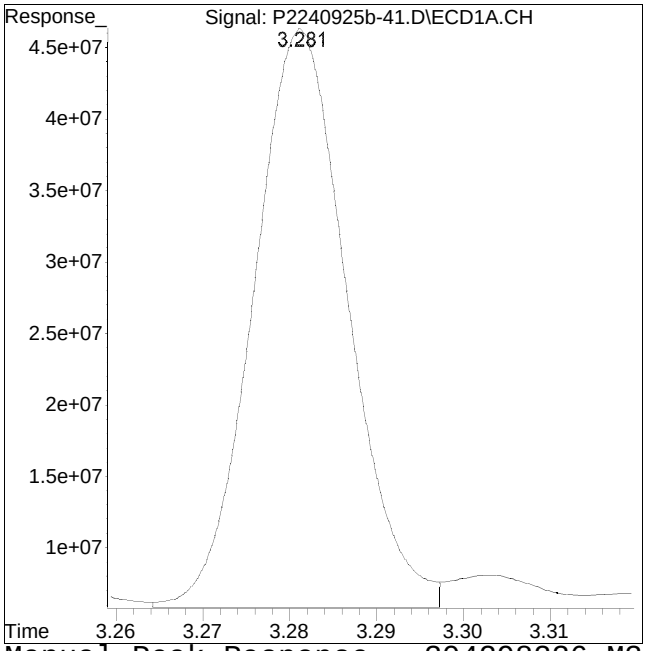
Original Peak Response = 66867936 Manual Peak Response = 136126289 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-41.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:32 Instrument : Pest 2
Sample : WG1975830-5,42,, msd Quant Date : 9/26/2024 7:53 am

Compound #12: 1260-4



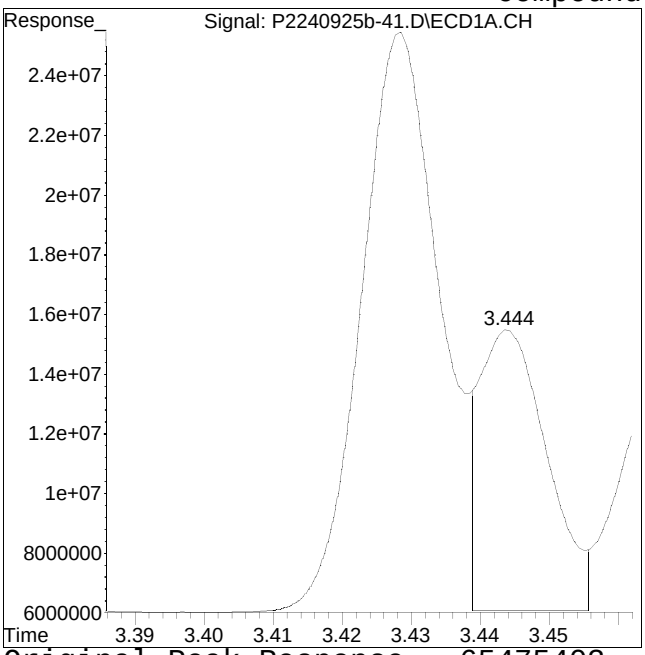


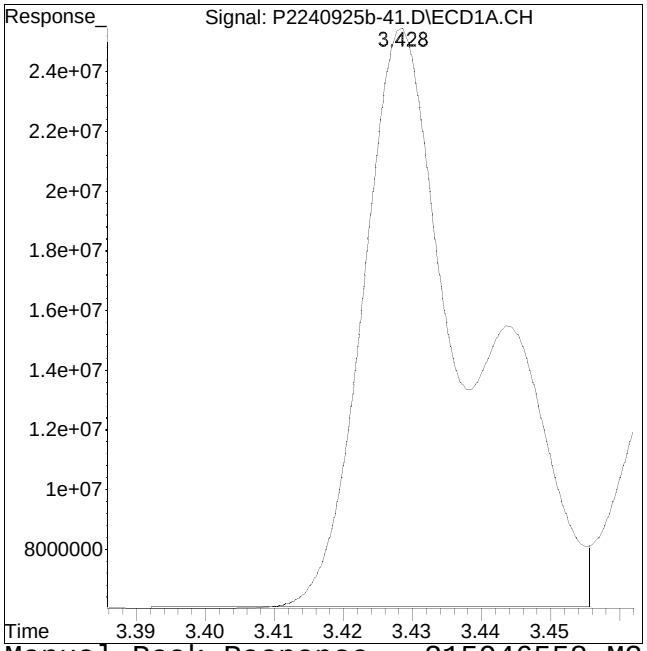
Original Peak Response = 315936182 Manual Peak Response = 304298236 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-41.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:32 Instrument : Pest 2
Sample : WG1975830-5,42,, msd Quant Date : 9/26/2024 7:53 am

Compound #13: 1260-5



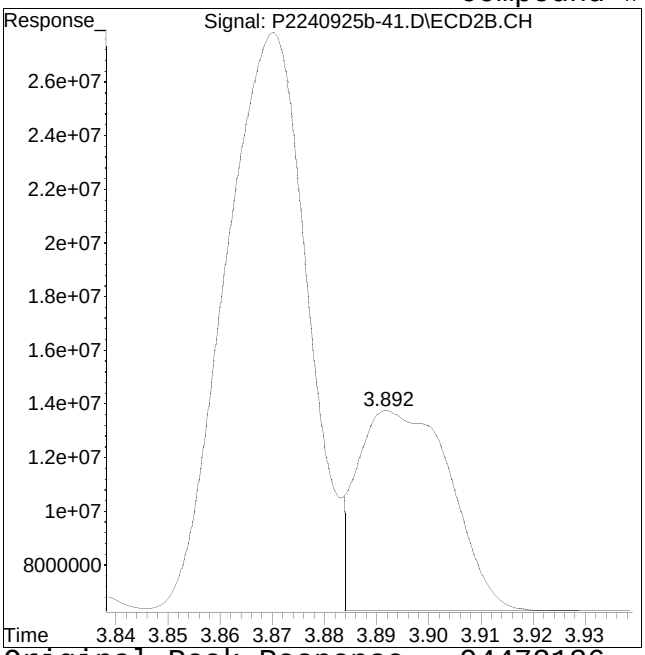


Original Peak Response = 65475403 Manual Peak Response = 215946558 M2
M2 = Peak not found by automatic integration algorithm.

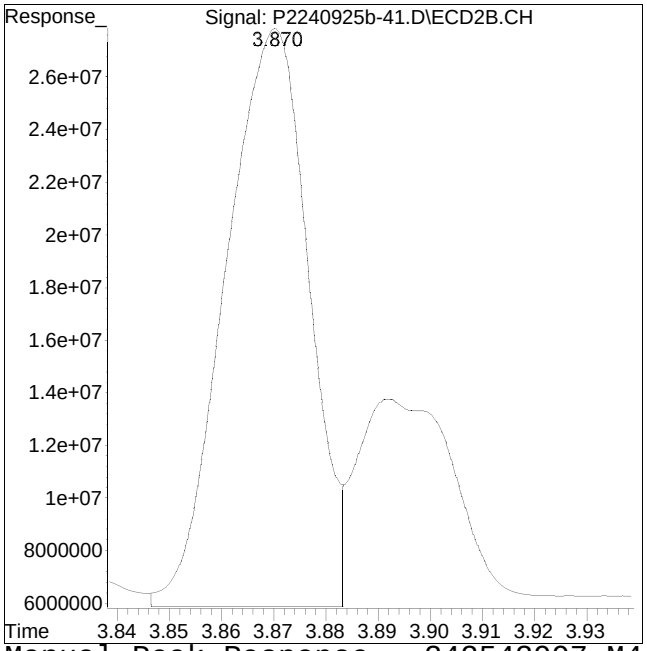
Manual Integration Report

Data Path : I:\PCB\Pest2\2024\240925B\QMethod : P2_PCB_09_16_24_iRVT_ICA
Data File : P2240925b-41.D Operator : pest2:mhg
Date Inj'd : 9/25/2024 22:32 Instrument : Pest 2
Sample : WG1975830-5,42,, msd Quant Date : 9/26/2024 7:53 am

Compound #64: 1260-5 #2



Original Peak Response = 94472136



Manual Peak Response = 242543997 M4

M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **09/16/24**
Run: I

Method: 8082
GC: PCB RVT

Seq: ICAL21500
IS: pp11660
WG1972777

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	P2240916i-01	blk				
1	P2240916i-02	blk				
1	P2240916i-03	blk				
1	P2240916i-04	blk				
1	P2240916i-05	blk				
2	P2240916i-06	il11660,42,,pp11790 4PPB				kab/sdc 9/17
3	P2240916i-07	il21660,42,,pp11790 10PPB				kab/sdc 9/17
4	P2240916i-08	il31660,42,,pp11790 20PPB				kab/sdc 9/17
5	P2240916i-09	il41660,42,,pp11790 30PPB				kab/sdc 9/17
6	P2240916i-10	il51660,42,,pp11790 40PPB				kab/sdc 9/17
7	P2240916i-11	il61660,42,,pp11790 50PPB				kab/sdc 9/17
8	P2240916i-12	il71660,42,,pp11790 100PPB				kab/sdc 9/17
9	P2240916i-13	il81660,42,,pp11790 250PPB				kab/sdc 9/17
10	P2240916i-14	il91660,42,,pp11790 500PPB				kab/sdc 9/17
11	P2240916i-15	il101660,42,,pp11790 1000PPB				kab/sdc 9/17
12	P2240916i-16	cicv1660,42,, ICV 250 pp11765				kab/sdc 9/17
1	P2240916i-17	instrument blank				kab/sdc 9/17
31	P2240916i-18	L8 RVT 2154 250 pp11766				kab/sdc 9/17
32	P2240916i-19	L8 RVT 1248 250 pp11767				kab/sdc 9/17
33	P2240916i-20	L8 RVT 3262 250 pp11768				kab/sdc 9/17
34	P2240916i-21	L8 RVT 4268 250 pp11769				kab/sdc 9/17
41	P2240916i-22	2154 ICV 250 pp11770				kab/sdc 9/17
42	P2240916i-23	1248 ICV 250 pp11771				kab/sdc 9/17
43	P2240916i-24	3262 ICV 250 pp11773				kab/sdc 9/17
44	P2240916i-25	4268 ICV 250 pp11772				kab/sdc 9/17

Dep.: PCB
Inst: Pest_2
Date: **09/25/24**
Run: b

Method: 8082
GC: PCB RVT

Seq: WG1976073
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	P2240925b-01	blk				
1	P2240925b-02	blk				
1	P2240925b-03	blk				
4	P2240925b-04	cicv1660,42,, lvi pp11776	20% 9:10 073-1 sdc			meo 9/25
5	P2240925b-05	blank				
6	P2240925b-06	cicv2154,42,, lvi pp11761	pass			meo 9/25
7	P2240925b-07	cicv1248,42,, lvi pp11740	pass			
8	P2240925b-08	cicv4268,42,, lvi pp11775	pass			
9	P2240925b-09	WG1975561-1,42,, 5616		meo		meo 9/25
10	P2240925b-10	WG1975561-2,42,, 5616				meo 9/25
11	P2240925b-11	WG1975561-3,42,, 5616				meo 9/25
12	P2240925b-12	L2454467-01,42,,,R3A				meo 9/25
13	P2240925b-13	L2454467-02,42,,,R3A				meo 9/25
14	P2240925b-14	L2454467-03,42,,,R3A				meo 9/25
15	P2240925b-15	L2454467-04,42,,,R3A				meo 9/25
16	P2240925b-16	L2454467-05,42,,,R3A				meo 9/25
17	P2240925b-17	L2454467-06,42,,,R3A				meo 9/25
18	P2240925b-18	L2454467-10,42,,,R3A				meo 9/25
19	P2240925b-19	L2454467-11,42,,,R3A				meo 9/25
20	P2240925b-20	L2454467-12,42,,,R3A				meo 9/25
21	P2240925b-21	L2454467-13,42,,,R3A				meo 9/25
22	P2240925b-22	L2452203-01,42,, re nyb at sec,	confirmation only		sdc	
23	P2240925b-23	L2452909-14,42,, rr hit for 54			sdc	meo 9/25

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 26 2024, 01:22 pm

Work Group: WG1975830 for Department: 2 Organic Preparation

Created: 25-SEP-24 Due: Operator: FMM

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453613-10	SW-001-20240918	S	NYTCL-8082-LVI	WATER	DONE	U	0918	0925	S0	Amber-A.120
L2453720-01	MW-8S	S	NYTCL-8082-LVI	WATER	DONE	U	0918	0925	S0	Amber-A.120
L2453720-02	MW-8D	S	NYTCL-8082-LVI	WATER	DONE	U	0918	0925	S0	Amber-A.120
L2453720-03	DUP_091824	S	NYTCL-8082-LVI	WATER	DONE	U	0918	0925	S0	Amber-A.120
L2453720-04	EQUIPMENT BLANK	S	NYTCL-8082-LVI	WATER	DONE	U	0918	0925	S0	Amber-A.120
L2453720-06	MW-5D	S	NYTCL-8082-LVI	WATER	DONE	U	0918	0925	S0	Amber-A.120
L2453720-07	PZ-5	S	NYTCL-8082-LVI	WATER	DONE	U	0918	0925	S0	Amber-A.120
L2453720-08	MW-12S	S	NYTCL-8082-LVI	WATER	DONE	U	0918	0925	S0	Amber-A.120
L2453720-09	MW-12D	S	NYTCL-8082-LVI	WATER	DONE	U	0918	0925	S0	Amber-A.120
WG1975830-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1975830-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1975830-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1975830-4	Matrix Spike	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1975830-5	Matrix Spike Duplica	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1975830-3	WG1975830-2
WG1975830-4	L2453720-02
WG1975830-5	L2453720-02

ORGANIC ELN REPORT

Workgroup: WG1975830

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EJ089
Surrogate Type: Pesticide/PCB **Lot #:** PP11735bd,02/06/2025,7c,5,1
Spike Type: PCB **Lot #:** PP11722ab,01/12/2025,6l,5,4
Spike Verify by: FMM
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	241169

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EJ061

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EJ061

Additional Reagents/Stds

H2SO4	2024071607

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EJ061

Additional Reagents/Stds

Copper	2406cpg002

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2453613-10 WATER	09/25/24 16:49	Richard Nyarko	140	>5,<9	.1		09/25/24 18:27	Kwasi Siriboe	5	H/K, #3
L2453720-01 SAMP	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1		09/25/24 11:55	Priscilla Anim	5	C / A / #1
L2453720-02 SAMP	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1		09/25/24 11:55	Priscilla Anim	5	C / A / #1
L2453720-03 SAMP	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1		09/25/24 11:55	Priscilla Anim	5	C / A / #1

Reported: 26-SEP-24 01:22 PM

ORGANIC ELN REPORT

Workgroup: WG1975830

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2453720-04 SAMP	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1		09/25/24 11:55	Priscilla Anim	5	C / A / #1
L2453720-06 SAMP	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1		09/25/24 11:55	Priscilla Anim	5	C / A / #1
L2453720-07 SAMP	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1		09/25/24 11:55	Priscilla Anim	5	C / A / #1
L2453720-08 SAMP	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1		09/25/24 11:55	Priscilla Anim	5	C / A / #1
L2453720-09 SAMP	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1		09/25/24 11:56	Priscilla Anim	5	C / A / #1
WG1975830-1 BLANK	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1		09/25/24 11:55	Priscilla Anim	5	C / A / #1
WG1975830-2 LCS	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1	.1	09/25/24 11:55	Priscilla Anim	5	C / A / #1
WG1975830-3 LCSD	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1	.1	09/25/24 11:55	Priscilla Anim	5	C / A / #1

Reported: 26-SEP-24 01:22 PM

ORGANIC ELN REPORT

Workgroup: WG1975830

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1975830-4 MS	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1	.1	09/25/24 11:55	Priscilla Anim	5	C / A / #1
WG1975830-5 MSD	09/25/24 00:08	Francis Mbro-Menyah	140	>5,<9	.1	.1	09/25/24 11:55	Priscilla Anim	5	C / A / #1

ORGANIC ELN REPORT

Workgroup: WG1975830

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2453613-10 WATER	09/25/24 23:05	Gloria Frimpong Mans	5	1	09/26/24 06:32	Gloria Frimpong Mans
L2453720-01 SAMP	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
L2453720-02 SAMP	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
L2453720-03 SAMP	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
L2453720-04 SAMP	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
L2453720-06 SAMP	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
L2453720-07 SAMP	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
L2453720-08 SAMP	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
L2453720-09 SAMP	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
WG1975830-1 BLANK	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
WG1975830-2 LCS	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie

Reported: 26-SEP-24 01:22 PM

ORGANIC ELN REPORT

Workgroup: WG1975830

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
WG1975830-3 LCSD	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
WG1975830-4 MS	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie
WG1975830-5 MSD	09/25/24 12:05	Priscilla Sarkodie	5	1	09/25/24 16:00	Priscilla Sarkodie

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2453720
Project Number: 2232.0006Y005
Matrix: Equipment Blank/Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-8S (L2453720-01)	69	64	61	56			0
MW-8D (L2453720-02)	75	67	70	63			0
DUP_091824 (L2453720-03)	73	67	66	60			0
EQUIPMENT BLANK (L2453720-04)	67	61	60	54			0
MW-5D (L2453720-06)	57	52	62	58			0
PZ-5 (L2453720-07)	64	58	61	55			0
MW-12S (L2453720-08)	73	66	74	67			0
MW-12D (L2453720-09)	64	58	66	60			0
WG1975489-1BLANK	58	52	55	50			0
WG1975489-2LCS	64	58	65	63			0
WG1975489-3LCSD	82	73	75	69			0
MW-8DMS	70	64	67	62			0
MW-8DMSD	63	57	68	62			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1975489-2 **Analysis Date** : 09/24/24 22:32	**File ID**	: 11240924b-08
LCSD Sample ID	: WG1975489-3 **Analysis Date** : 09/24/24 22:44	**File ID**	: 11240924b-09

	Laboratory Control Sample			Laboratory Control Duplicate						
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD		Recovery Limits	RPD Limit
Delta-BHC	0.357	0.236	66	0.357	0.295	83	22	Q	30-150	20
Lindane	0.357	0.272	76	0.357	0.311	87	13		30-150	20
Alpha-BHC	0.357	0.282	79	0.357	0.319	89	12		30-150	20
Beta-BHC	0.357	0.262	73	0.357	0.300	84	13		30-150	20
Heptachlor	0.357	0.291	82	0.357	0.328	92	12		30-150	20
Aldrin	0.357	0.277	78	0.357	0.310	87	11		30-150	20
Heptachlor epoxide	0.357	0.284	80	0.357	0.322	90	13		30-150	20
Endrin	0.357	0.293	82	0.357	0.334	94	13		30-150	20
Endrin aldehyde	0.357	0.206	58	0.357	0.267	75	26	Q	30-150	20
Endrin ketone	0.357	0.282	79	0.357	0.350	98	21	Q	30-150	20
Dieldrin	0.357	0.315	88	0.357	0.362	101	14		30-150	20
4,4'-DDE	0.357	0.276	77	0.357	0.323	90	16		30-150	20
4,4'-DDD	0.357	0.304	85	0.357	0.358	100	16		30-150	20
4,4'-DDT	0.357	0.292	82	0.357	0.326	91	11		30-150	20
Endosulfan I	0.357	0.282	79	0.357	0.329	92	15		30-150	20
Endosulfan II	0.357	0.274	77	0.357	0.343	96	22	Q	30-150	20
Endosulfan sulfate	0.357	0.267	75	0.357	0.349	98	27	Q	30-150	20
Methoxychlor	0.357	0.299	84	0.357	0.352	99	16		30-150	20
cis-Chlordane	0.357	0.268	75	0.357	0.302	85	12		30-150	20
trans-Chlordane	0.357	0.319	89	0.357	0.363	102	13		30-150	20

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/24/24 23:07
Matrix Spike	: WG1975489-4	**MS Analysis Date**	: 09/24/24 23:19
Matrix Spike Dup	: WG1975489-5	**MSD Analysis Date**	: 09/24/24 23:31

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	ND	0.357	0.242	68	0.357	0.236	66	3	30-150	30
Lindane	ND	0.357	0.269	75	0.357	0.260	73	3	30-150	30
Alpha-BHC	ND	0.357	0.277	78	0.357	0.268	75	3	30-150	30
Beta-BHC	ND	0.357	0.259	72	0.357	0.252	71	3	30-150	30
Heptachlor	ND	0.357	0.285	80	0.357	0.278	78	2	30-150	30
Aldrin	ND	0.357	0.266	74	0.357	0.264	74	1	30-150	30
Heptachlor epoxide	ND	0.357	0.275	77	0.357	0.271	76	1	30-150	30
Endrin	ND	0.357	0.288	81	0.357	0.284	80	1	30-150	30
Endrin aldehyde	ND	0.357	0.220	62	0.357	0.213	60	3	30-150	30
Endrin ketone	ND	0.357	0.295	83	0.357	0.290	81	2	30-150	30
Dieldrin	ND	0.357	0.306	86	0.357	0.304	85	1	30-150	30
4,4'-DDE	ND	0.357	0.269	75	0.357	0.269	75	0	30-150	30
4,4'-DDD	ND	0.357	0.298	83	0.357	0.300	84	1	30-150	30
4,4'-DDT	ND	0.357	0.286	80	0.357	0.286	80	0	30-150	30
Endosulfan I	ND	0.357	0.277	78	0.357	0.271	76	2	30-150	30
Endosulfan II	ND	0.357	0.290	81	0.357	0.277	78	5	30-150	30
Endosulfan sulfate	ND	0.357	0.292	82	0.357	0.280	78	4	30-150	30
Methoxychlor	ND	0.357	0.302	85	0.357	0.302	85	0	30-150	30
cis-Chlordane	ND	0.357	0.254	71	0.357	0.255	71	0	30-150	30
trans-Chlordane	ND	0.357	0.309	86	0.357	0.307	86	1	30-150	30

Method Blank Summary
Form 4
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab Sample ID	: WG1975489-1	**Lab File ID**	: 11240924b-07
Matrix	: WATER	**Extraction Date**	: 09/24/24
Analysis Date (1)	: 09/24/24 22:20	**Analysis Date (2)**	: 09/24/24 22:20
Instrument ID (1)	: PEST11	**Instrument ID (2)**	: PEST11

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1975489-2LCS	WG1975489-2	09/24/24 22:32	09/24/24 22:32
WG1975489-3LCSD	WG1975489-3	09/24/24 22:44	09/24/24 22:44
MW-8S	L2453720-01	09/24/24 22:55	09/24/24 22:55
MW-8D	L2453720-02	09/24/24 23:07	09/24/24 23:07
MW-8DMS	WG1975489-4	09/24/24 23:19	09/24/24 23:19
MW-8DMSD	WG1975489-5	09/24/24 23:31	09/24/24 23:31
DUP_091824	L2453720-03	09/24/24 23:43	09/24/24 23:43
EQUIPMENT BLANK	L2453720-04	09/24/24 23:55	09/24/24 23:55
MW-5D	L2453720-06	09/25/24 00:07	09/25/24 00:07
PZ-5	L2453720-07	09/25/24 00:19	09/25/24 00:19
MW-12S	L2453720-08	09/25/24 00:31	09/25/24 00:31
MW-12D	L2453720-09	09/25/24 00:43	09/25/24 00:43

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Initial Calib. Date(s)**	: 08/01/24 08/01/24

Client ID	Lab ID	Date/Time Analyzed
R1860455-1 PEM	R1860455-1	08/01/24 18:25
Pesticides L1 (0.5ug/L)	R1860455-2	08/01/24 18:37
Pesticides L2 (1.0ug/L)	R1860455-3	08/01/24 18:49
Pesticides L3 (2.0ug/L)	R1860455-4	08/01/24 19:01
Pesticides L4 (3.0ug/L)	R1860455-5	08/01/24 19:13
Pesticides L5 (4.0ug/L)	R1860455-6	08/01/24 19:25
Pesticides L7 (10.0ug/L)	R1860455-7	08/01/24 19:37
Pesticides L8 (50.0ug/L)	R1860455-8	08/01/24 19:49
Pesticides L9 (100ug/L)	R1860455-9	08/01/24 20:01
Pesticides L10 (200ug/L)	R1860455-10	08/01/24 20:12
Pesticides L11 (400ug/L)	R1860455-11	08/01/24 20:25
R1860455-12 ICV	R1860455-12	08/01/24 20:36
Chlordane L3 (10ug/L)	R1860455-13	08/01/24 20:48
Chlordane L4 (20ug/L)	R1860455-14	08/01/24 21:00
Chlordane L5 (100ug/L)	R1860455-15	08/01/24 21:12
Chlordane L7 (500ug/L)	R1860455-16	08/01/24 21:24
Chlordane L8 (1000ug/L)	R1860455-18	08/01/24 21:36
Chlordane L9 (2000ug/L)	R1860455-17	08/01/24 21:48
Chlordane L10 (5000ug/L)	R1860455-19	08/01/24 22:00
R1860455-20 ICV	R1860455-20	08/01/24 22:12
Toxaphene L3 (20.0ug/L)	R1860455-21	08/01/24 22:24
Toxaphene L4 (100ug/L)	R1860455-22	08/01/24 22:36
Toxaphene L7 (1000ug/L)	R1860455-23	08/01/24 22:47
Toxaphene L8 (2000ug/L)	R1860455-24	08/01/24 22:59
Toxaphene L9 (5000ug/L)	R1860455-25	08/01/24 23:11
R1860455-26 ICV	R1860455-26	08/01/24 23:23
R1880176-1 PEM	R1880176-1	09/24/24 21:12
WG1975804-1 CCAL	WG1975804-1	09/24/24 21:24
WG1975804-2 CCAL	WG1975804-2	09/24/24 21:36
WG1975804-3 CCAL	WG1975804-3	09/24/24 21:48
WG1975489-1 BLANK	WG1975489-1	09/24/24 22:20
WG1975489-2 LCS	WG1975489-2	09/24/24 22:32
WG1975489-3 LCSD	WG1975489-3	09/24/24 22:44
MW-8S	L2453720-01	09/24/24 22:55
MW-8D	L2453720-02	09/24/24 23:07
MW-8D MS	WG1975489-4	09/24/24 23:19
MW-8D MSD	WG1975489-5	09/24/24 23:31
DUP_091824	L2453720-03	09/24/24 23:43
EQUIPMENT BLANK	L2453720-04	09/24/24 23:55
MW-5D	L2453720-06	09/25/24 00:07
PZ-5	L2453720-07	09/25/24 00:19
MW-12S	L2453720-08	09/25/24 00:31

Analytical Sequence
Form 8b
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Initial Calib. Date(s)**	: 08/01/24 08/01/24

Client ID	Lab ID	Date/Time Analyzed
MW-12D	L2453720-09	09/25/24 00:43

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 22:55
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240924b-10	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

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

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:07
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240924b-11	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

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

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:43
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240924b-14	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

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

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 23:55
Sample Matrix	: Equipment Blank	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240924b-15	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

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

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:07
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240924b-16	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

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

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:19
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240924b-17	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

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

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:31
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240924b-18	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

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

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 00:43
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240924b-19	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

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

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975489-1	**Date Collected**	: NA
Client ID	: WG1975489-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 22:20
Sample Matrix	: WATER	**Date Extracted**	: 09/24/24
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 11240924b-07	**Analyst**	: JAG
Sample Amount	: 140 ml	**Instrument ID**	: PEST11
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:55
Operator : PEST11:jag
Sample : L2453720-01,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:37 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.191	1.263	280.5E6	178.8E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery =	97.02%	
	Standard Area 1 : #2 = 192001596				Recovery =	93.15%	
28) i	1-br-2-nb_Ch	1.191	1.263	280.5E6	178.8E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.191	1.263	280.5E6	178.8E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.519	1.710	400.8E6	254.8E6	34.380M4	31.976M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	68.76%	63.95%
27) s	Decachlorobi	6.125	6.755	399.5E6	212.7E6	30.618M4	28.046M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	61.24%	56.09%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:55
Operator : PEST11:jag
Sample : L2453720-01,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:37 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

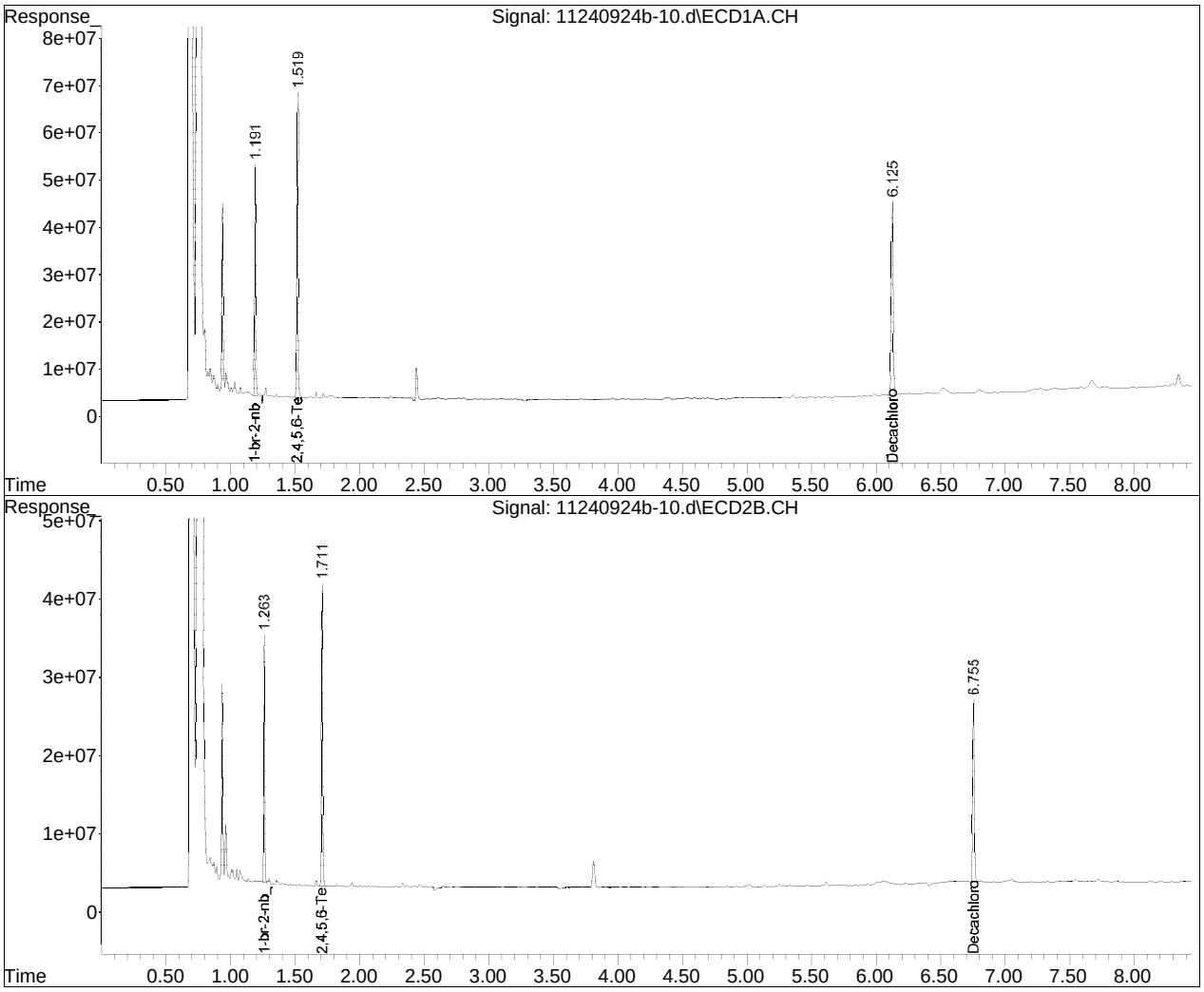
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:55
Operator : PEST11:jag
Sample : L2453720-01,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:37 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

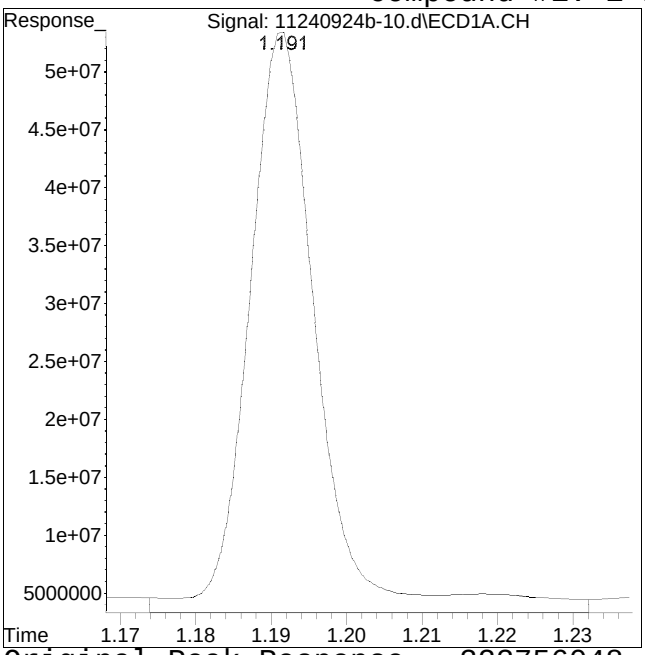
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



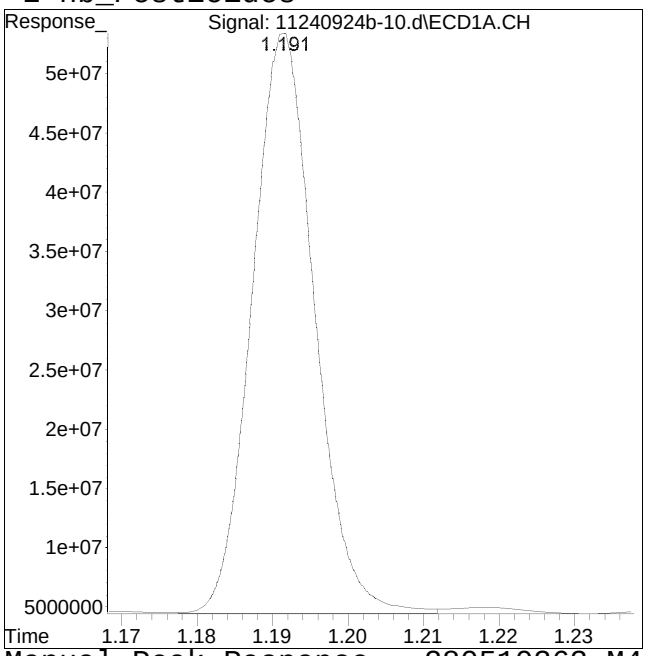
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-10.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:55 Instrument : Pest 11
Sample : L2453720-01,42,, Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 323756048



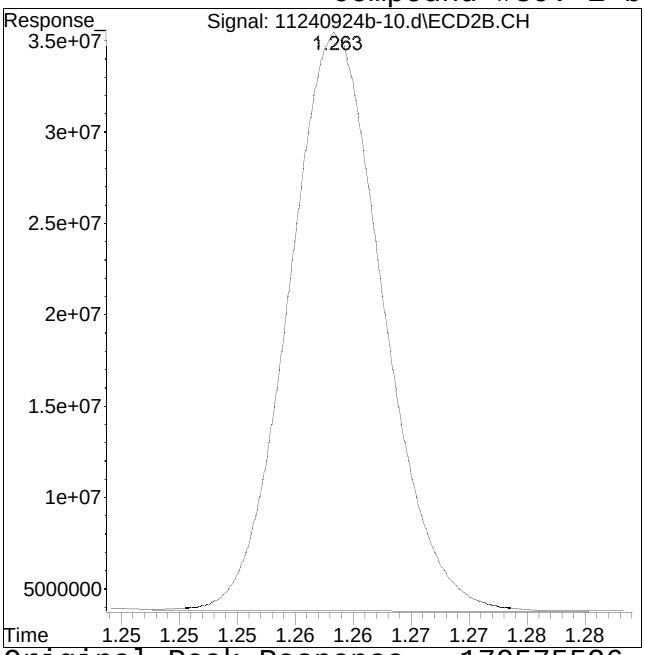
Manual Peak Response = 280510363 M4

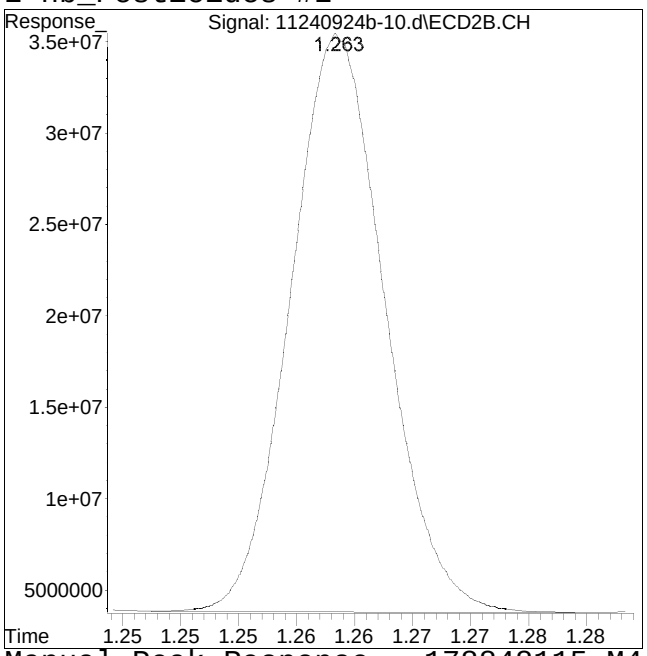
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-10.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:55 Instrument : Pest 11
Sample : L2453720-01,42,, Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



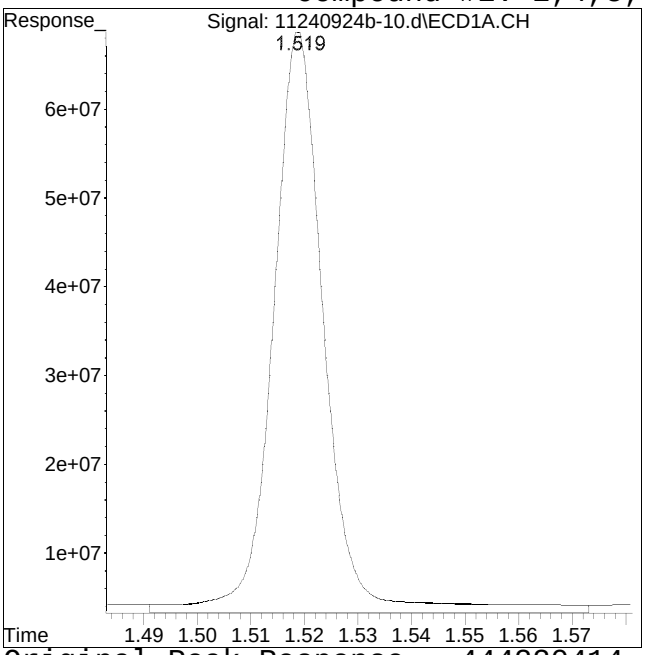


Original Peak Response = 179575526 Manual Peak Response = 178848115 M4
M4 = Poor automated baseline construction.

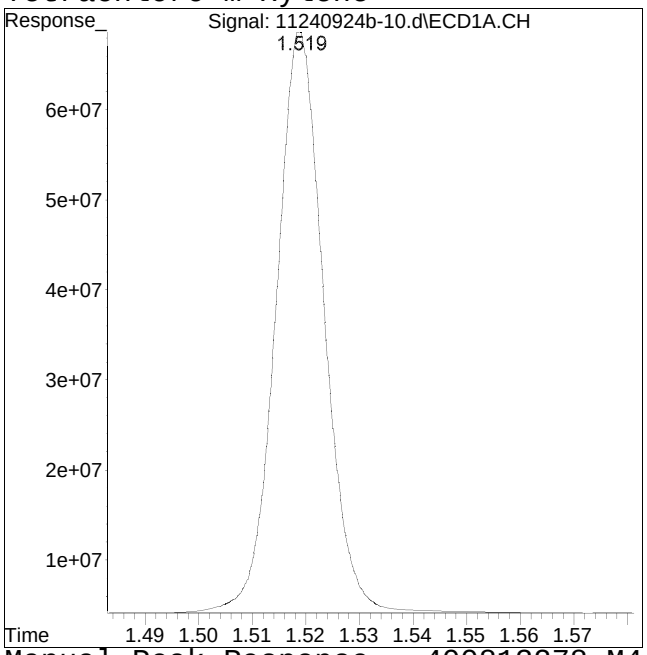
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-10.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:55 Instrument : Pest 11
Sample : L2453720-01,42,, Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 444220414



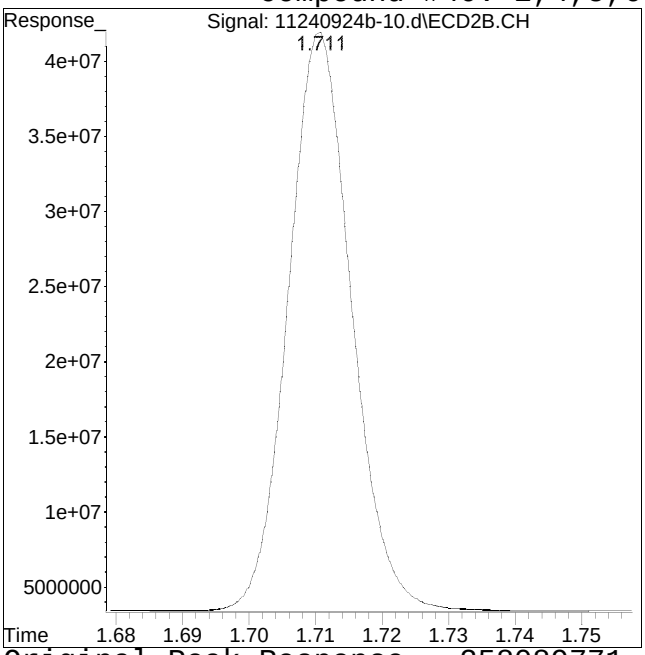
Manual Peak Response = 400813278 M4

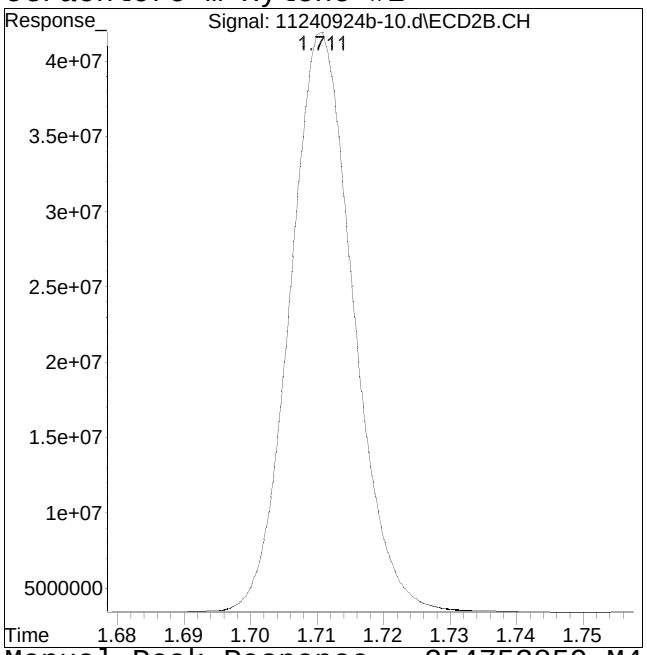
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-10.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:55 Instrument : Pest 11
Sample : L2453720-01,42,, Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



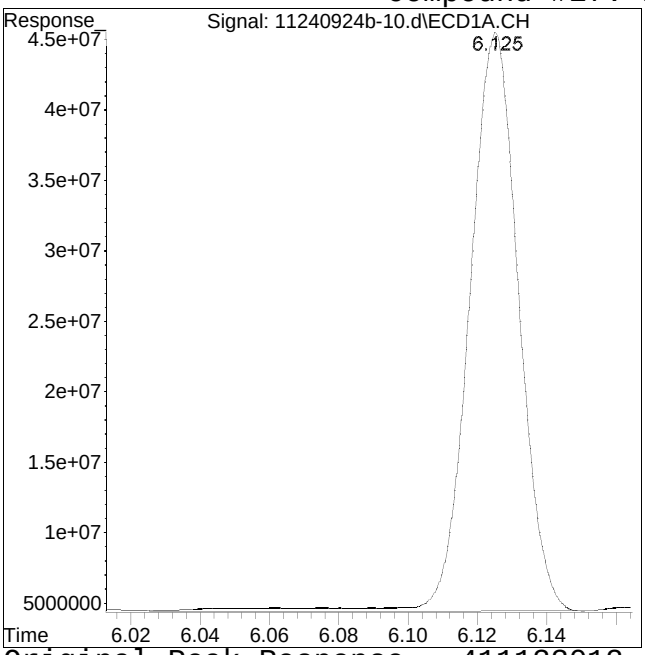


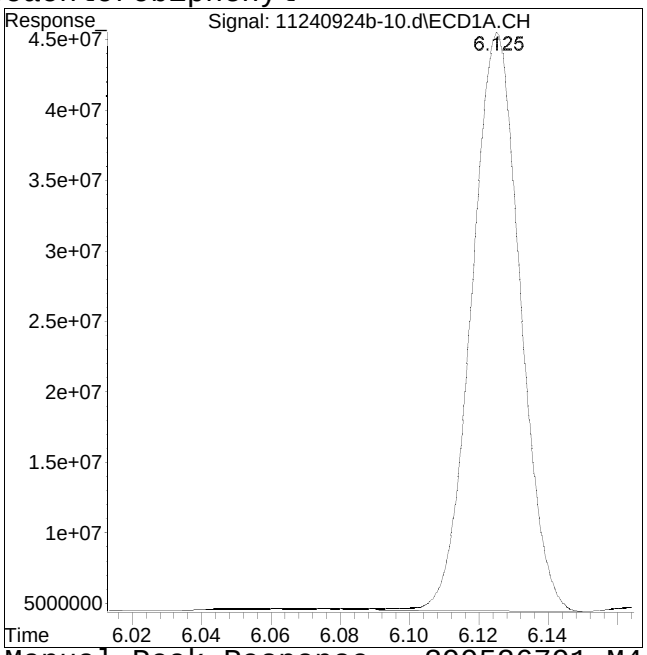
Original Peak Response = 258089771 Manual Peak Response = 254753859 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-10.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:55 Instrument : Pest 11
Sample : L2453720-01,42,, Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



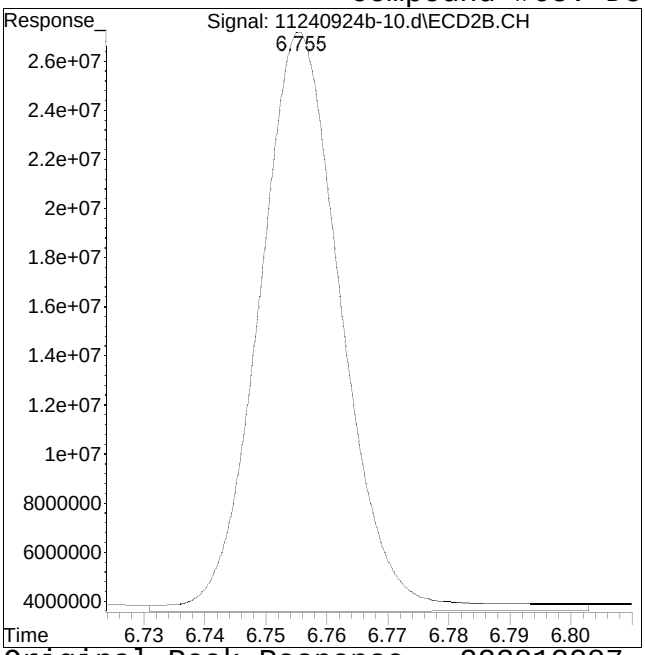


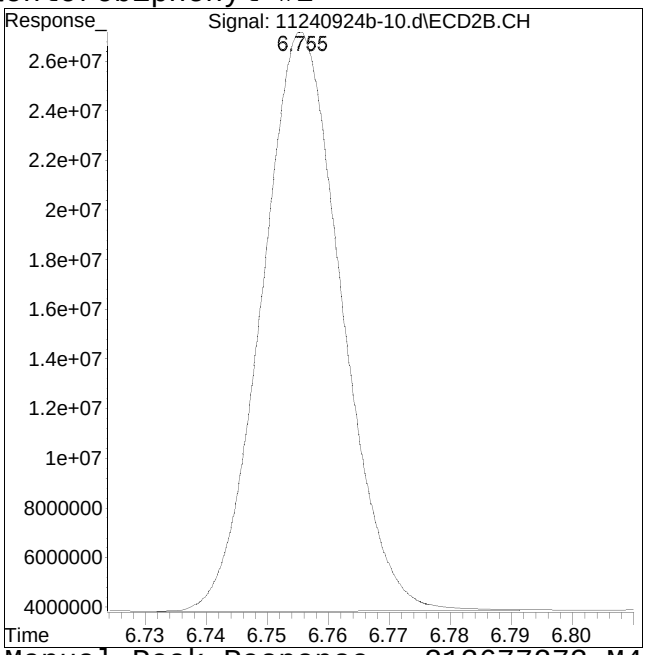
Original Peak Response = 411133012 Manual Peak Response = 399526791 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-10.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:55 Instrument : Pest 11
Sample : L2453720-01,42,, Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2



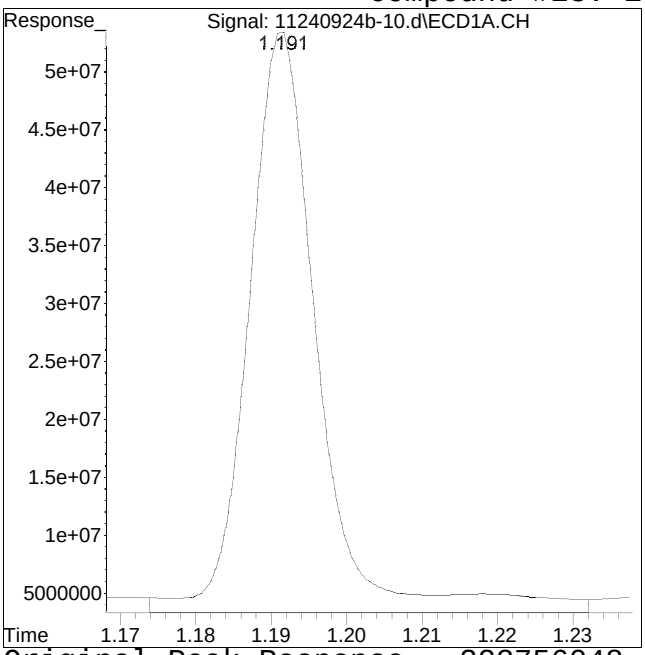


Original Peak Response = 223812287 Manual Peak Response = 212677273 M4
M4 = Poor automated baseline construction.

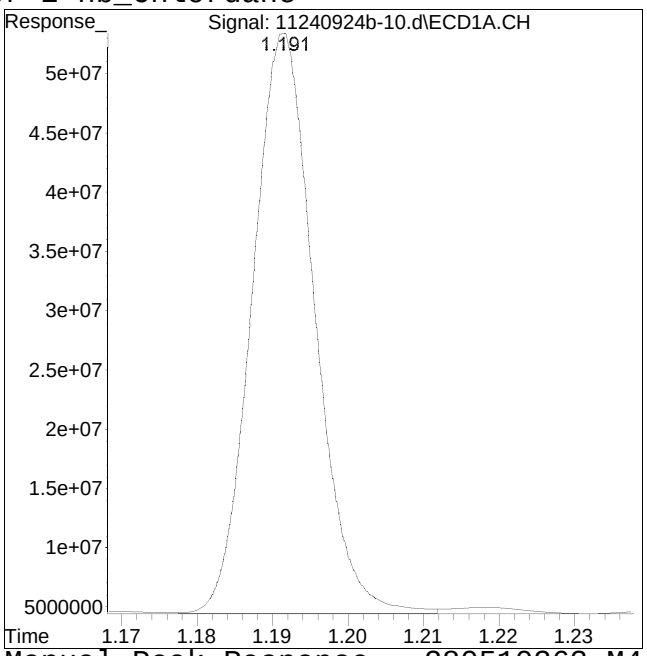
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-10.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:55 Instrument : Pest 11
Sample : L2453720-01,42,, Quant Date : 9/25/2024 2:26 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 323756048



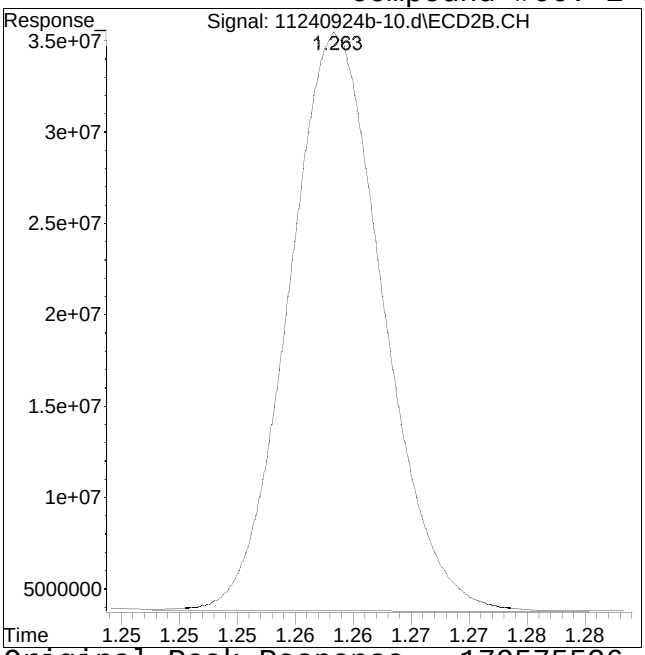
Manual Peak Response = 280510363 M4

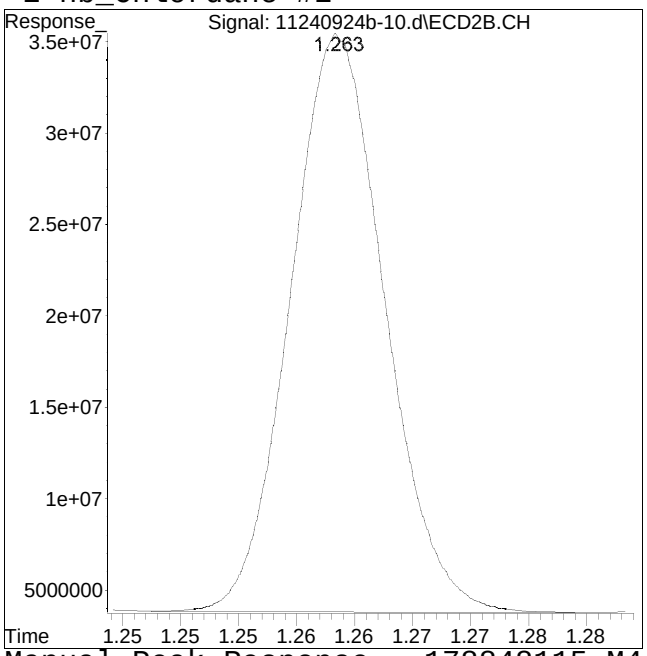
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-10.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:55 Instrument : Pest 11
Sample : L2453720-01,42,, Quant Date : 9/25/2024 2:26 pm

Compound #66: 1-br-2-nb_Chlordane #2



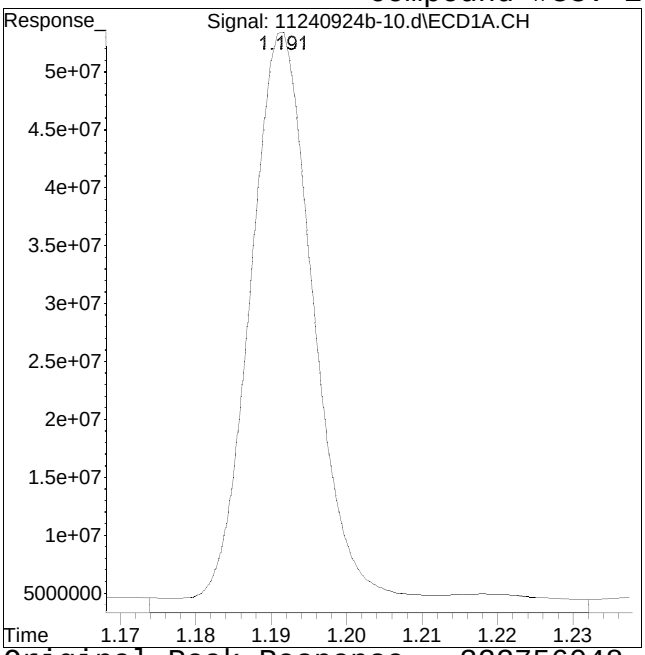


Original Peak Response = 179575526 Manual Peak Response = 178848115 M4
M4 = Poor automated baseline construction.

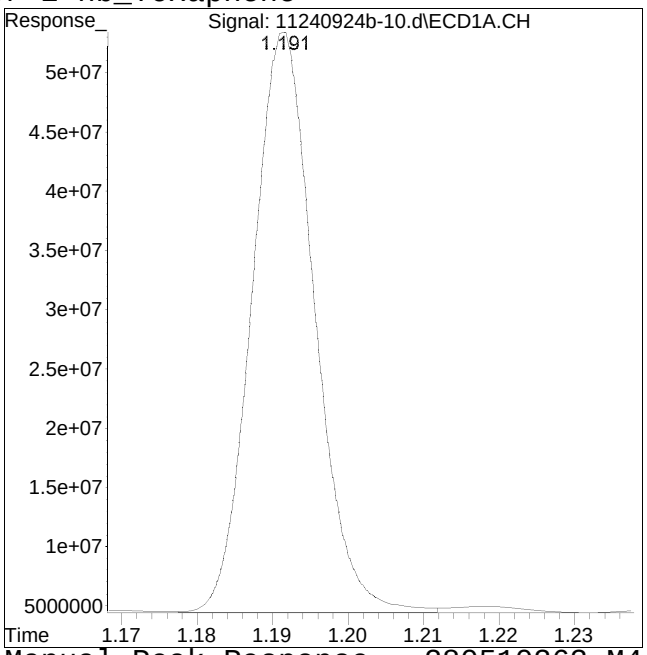
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-10.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:55 Instrument : Pest 11
Sample : L2453720-01,42,, Quant Date : 9/25/2024 2:26 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 323756048



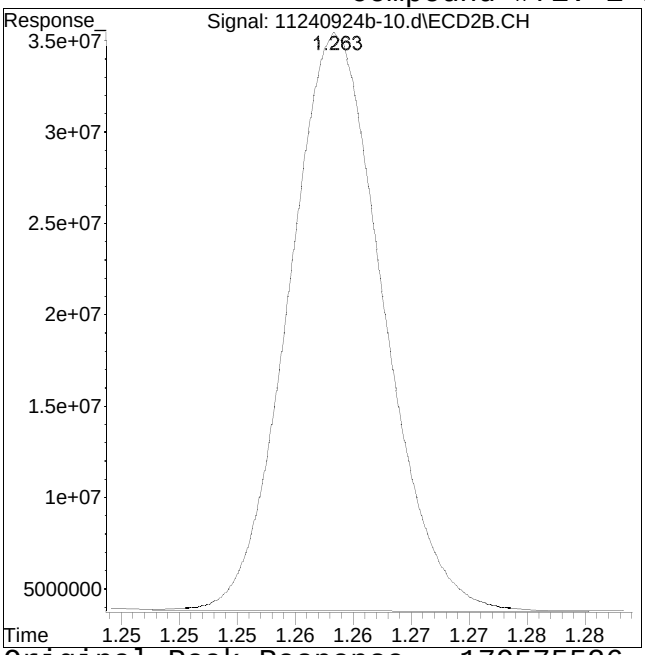
Manual Peak Response = 280510363 M4

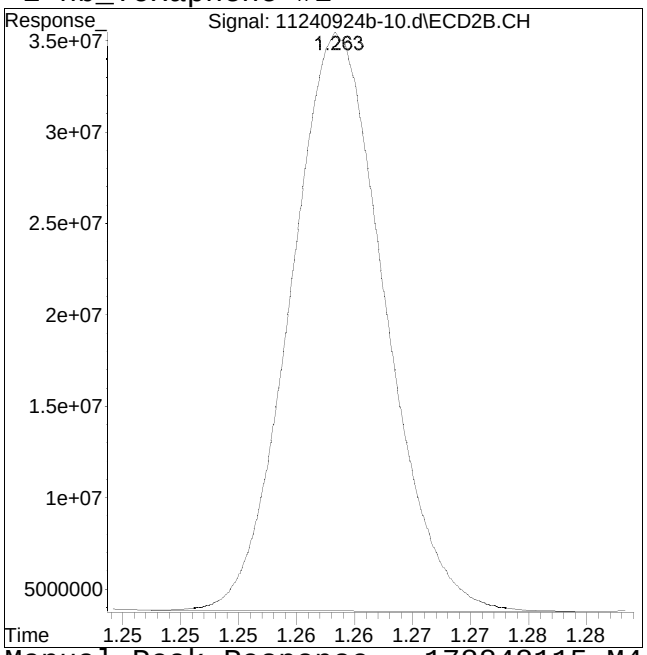
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-10.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:55 Instrument : Pest 11
Sample : L2453720-01,42,, Quant Date : 9/25/2024 2:26 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 179575526 Manual Peak Response = 178848115 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:07
Operator : PEST11:jag
Sample : L2453720-02,42,, p
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:39 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.192	1.264	275.8E6	178.0E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery =	95.39%	
	Standard Area 1 : #2 = 192001596				Recovery =	92.71%	
28) i	1-br-2-nb_Ch	1.192	1.264	275.8E6	178.0E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.192	1.264	275.8E6	178.0E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.519	1.711	427.8E6	263.9E6	37.321M4	33.273M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	74.64%	66.55%
27) s	Decachlorobi	6.125	6.756	450.6E6	239.5E6	35.121M4	31.727M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	70.24%	63.45%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:07
Operator : PEST11:jag
Sample : L2453720-02,42,, p
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:39 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

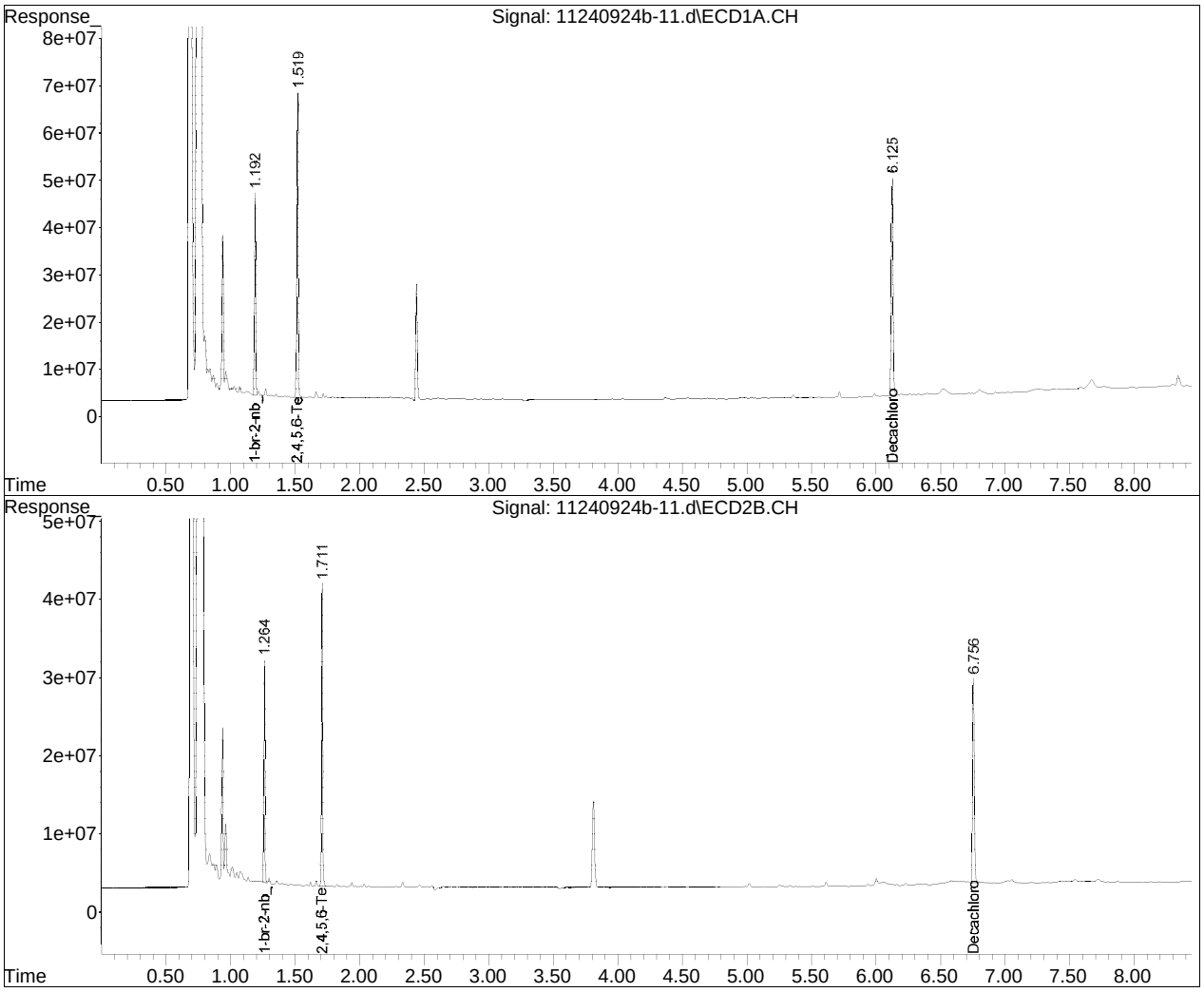
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:07
Operator : PEST11:jag
Sample : L2453720-02,42,, p
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:39 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

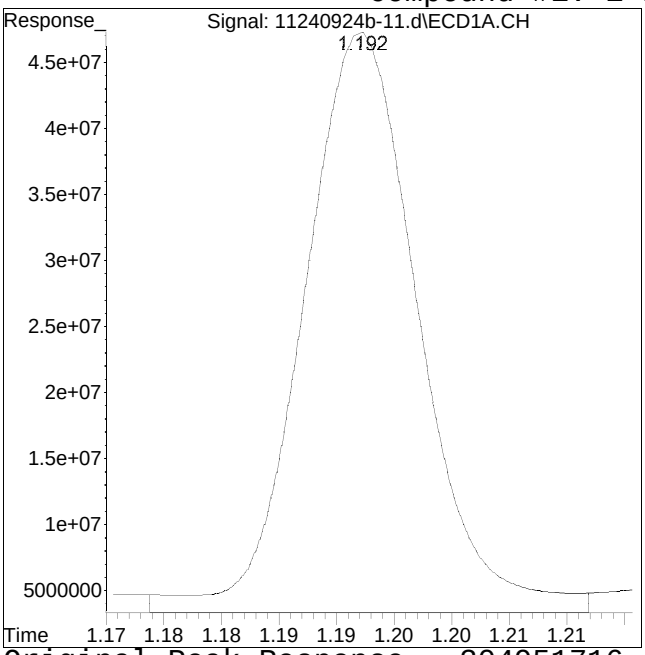
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

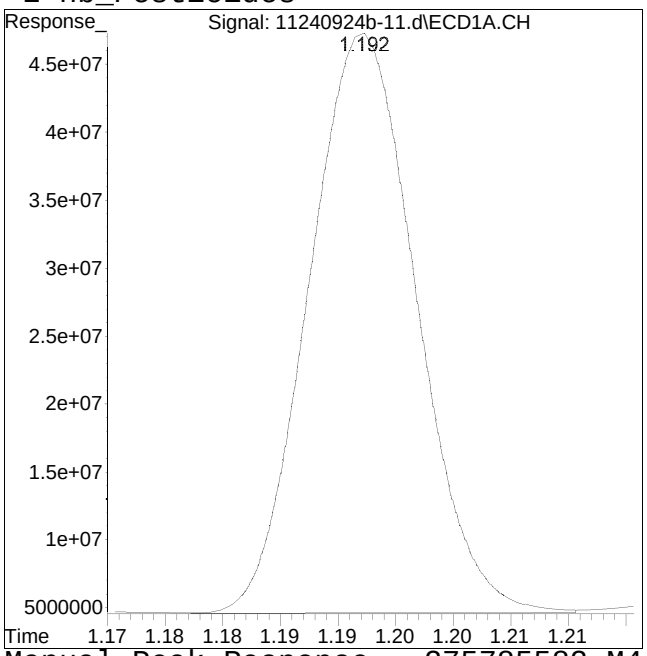


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-11.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:07 Instrument : Pest 11
Sample : L2453720-02,42,, p Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



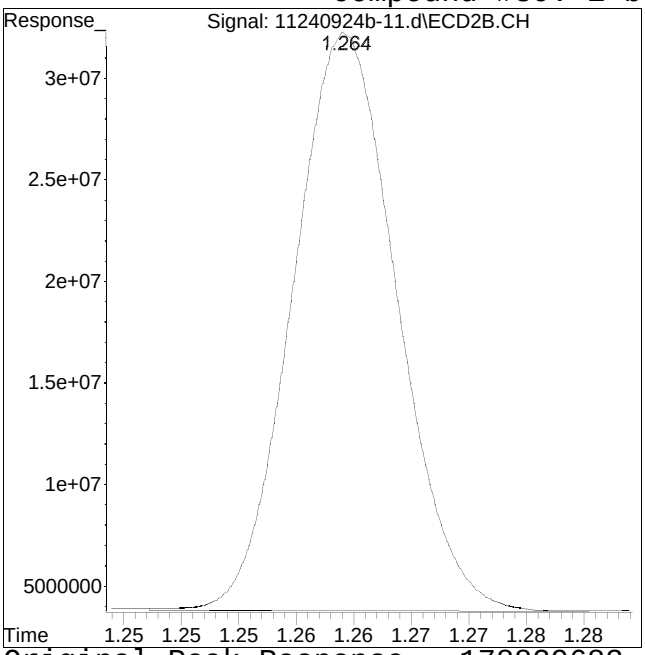


Original Peak Response = 304951716 Manual Peak Response = 275785582 M4
M4 = Poor automated baseline construction.

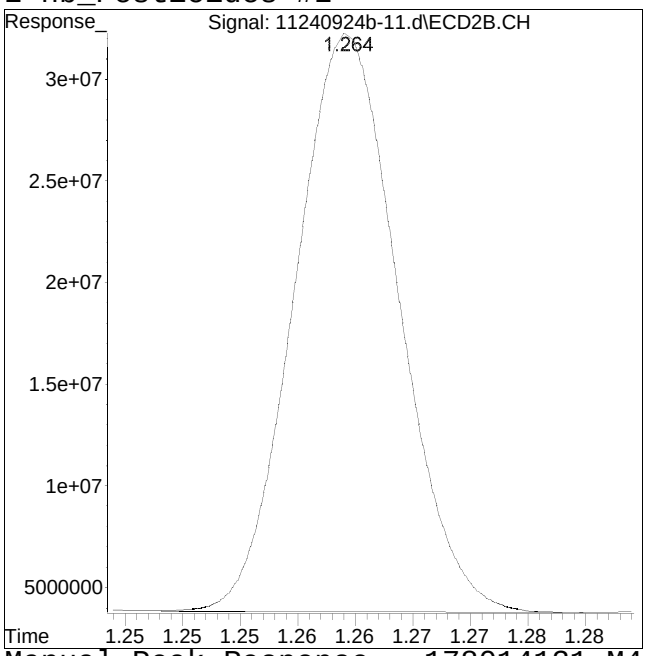
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-11.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:07 Instrument : Pest 11
Sample : L2453720-02,42,, p Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 178829683



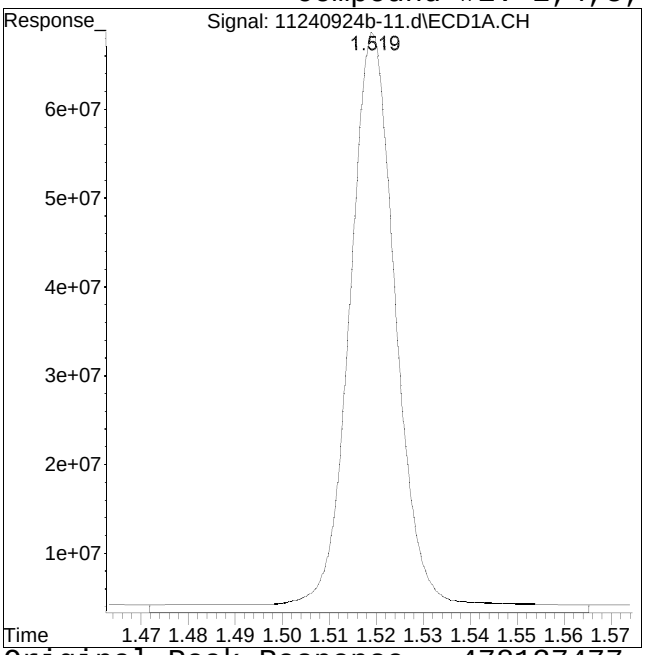
Manual Peak Response = 178014131 M4

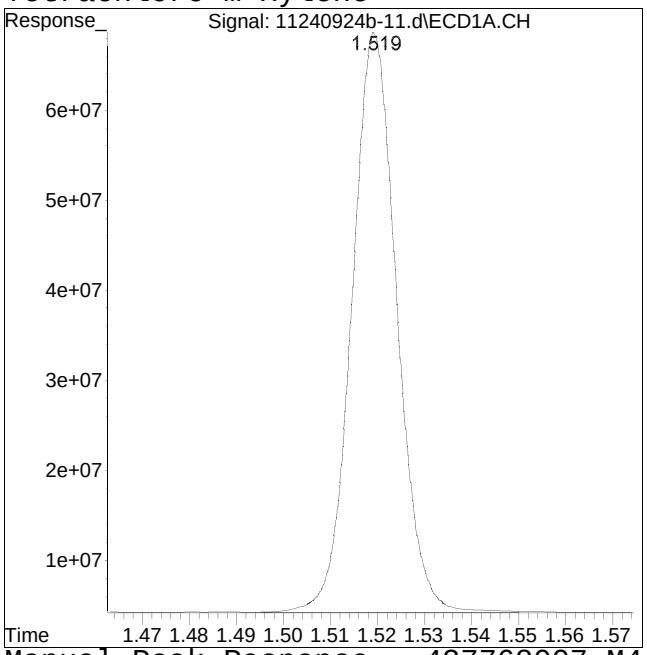
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-11.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:07 Instrument : Pest 11
Sample : L2453720-02,42,, p Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



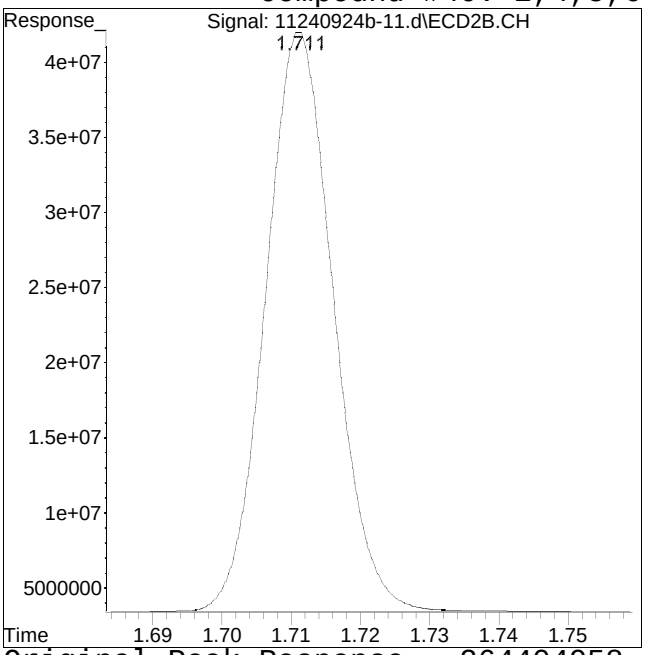


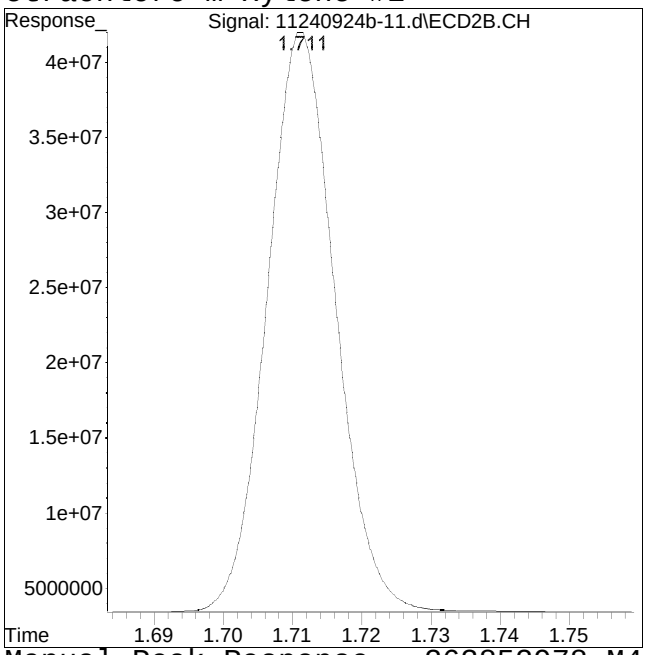
Original Peak Response = 478137477 Manual Peak Response = 427768007 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-11.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:07 Instrument : Pest 11
Sample : L2453720-02,42,, p Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



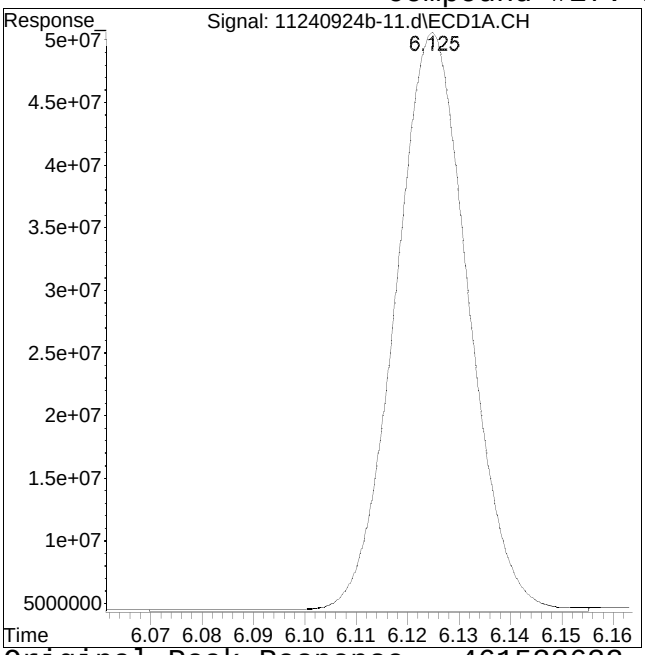


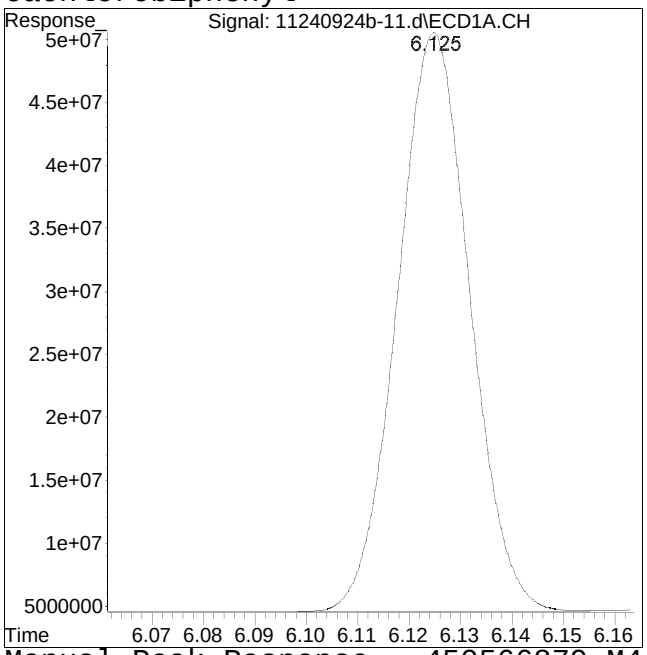
Original Peak Response = 264404958 Manual Peak Response = 263852978 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-11.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:07 Instrument : Pest 11
Sample : L2453720-02,42,, p Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



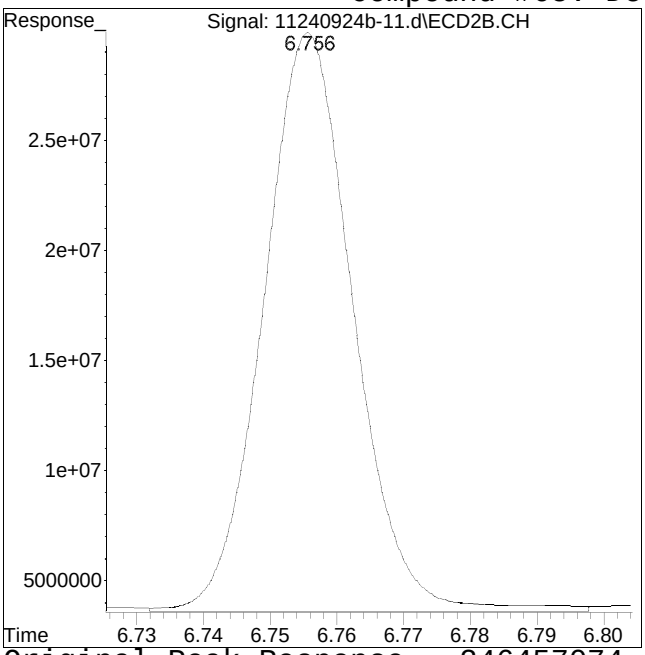


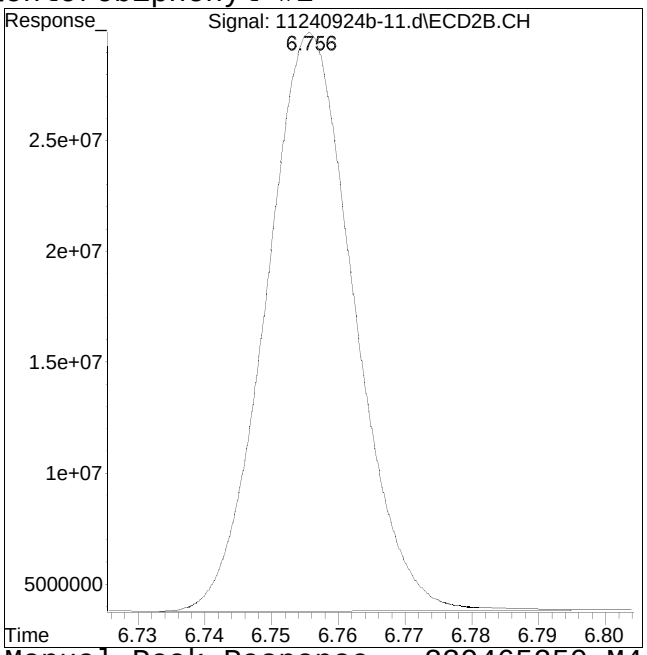
Original Peak Response = 461533632 Manual Peak Response = 450566879 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-11.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:07 Instrument : Pest 11
Sample : L2453720-02,42,, p Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2



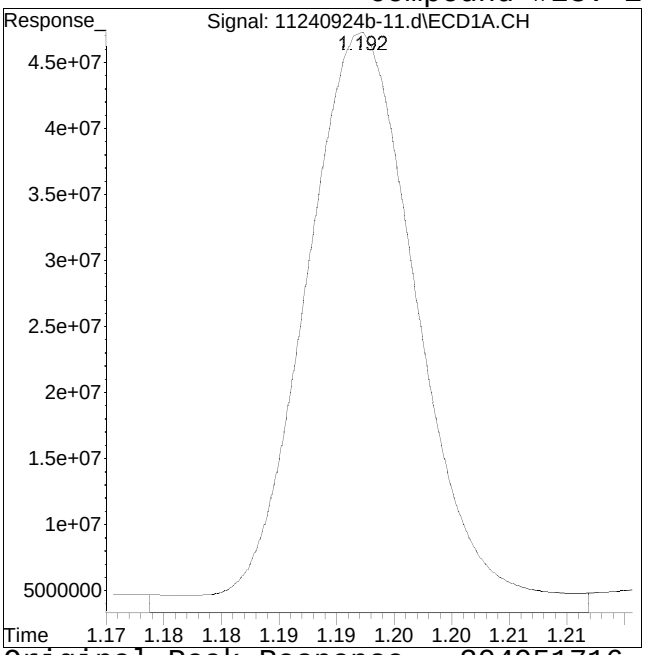


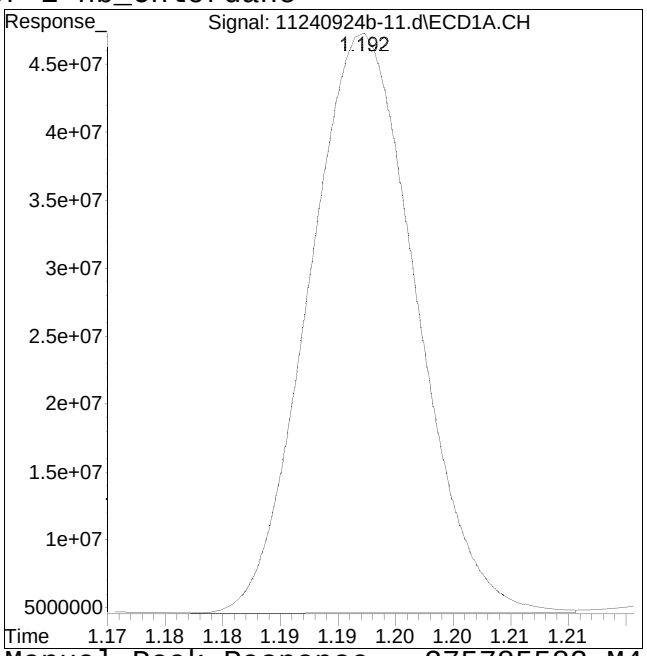
Original Peak Response = 246457074 Manual Peak Response = 239465250 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-11.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:07 Instrument : Pest 11
Sample : L2453720-02,42,, p Quant Date : 9/25/2024 2:26 pm

Compound #28: 1-br-2-nb_Chlordane



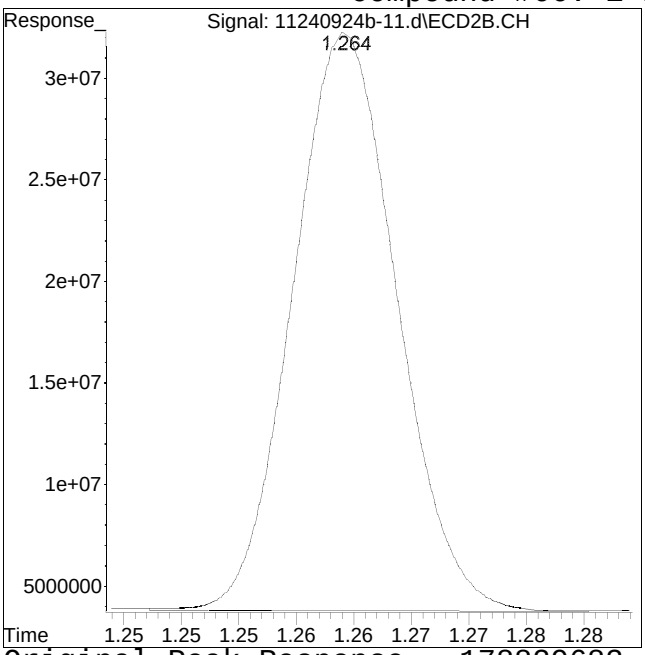


Original Peak Response = 304951716 Manual Peak Response = 275785582 M4
M4 = Poor automated baseline construction.

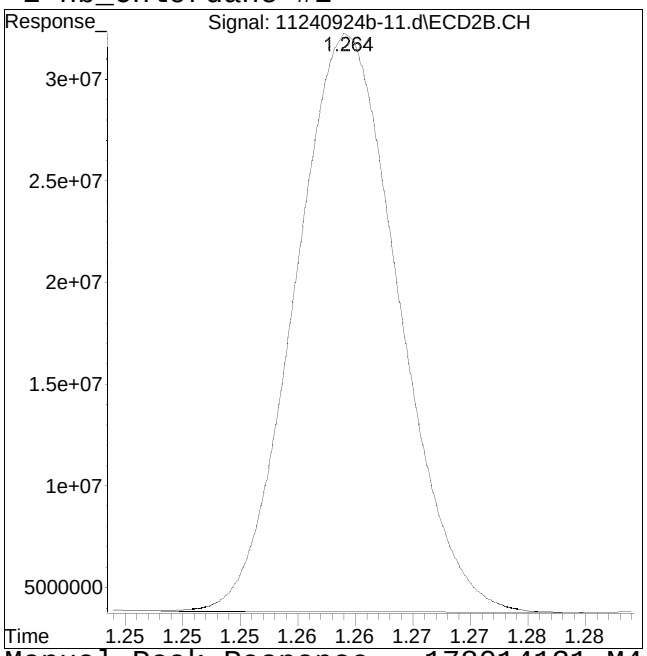
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-11.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:07 Instrument : Pest 11
Sample : L2453720-02,42,, p Quant Date : 9/25/2024 2:26 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 178829683



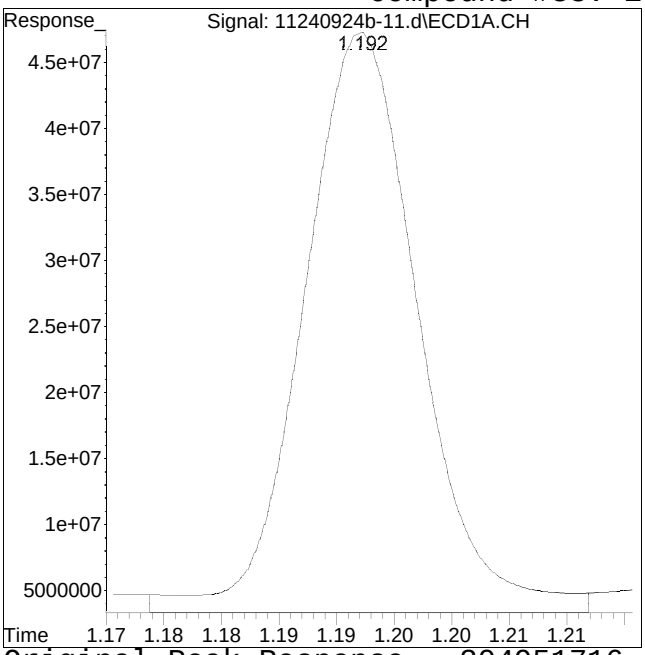
Manual Peak Response = 178014131 M4

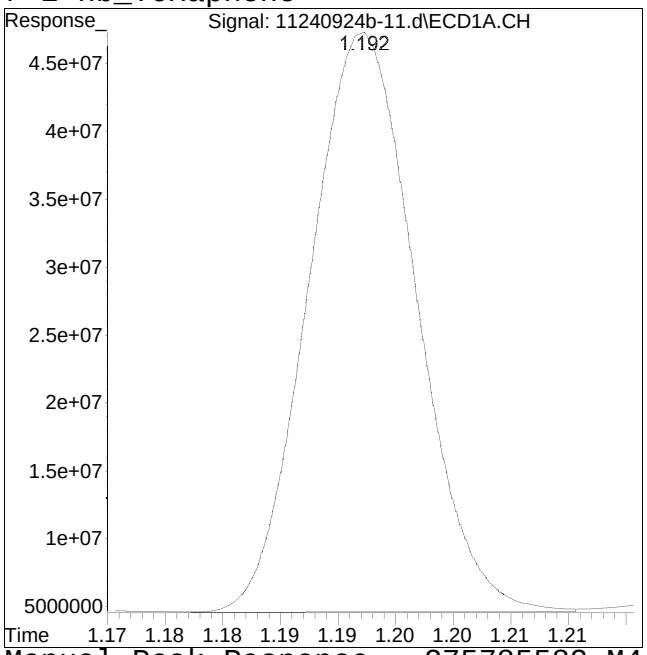
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-11.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:07 Instrument : Pest 11
Sample : L2453720-02,42,, p Quant Date : 9/25/2024 2:26 pm

Compound #33: 1-br-2-nb_Toxaphene



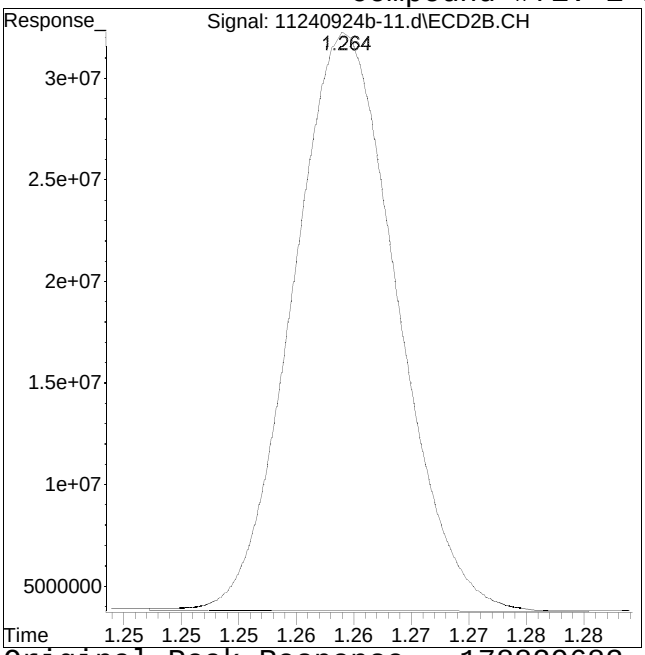


Original Peak Response = 304951716 Manual Peak Response = 275785582 M4
M4 = Poor automated baseline construction.

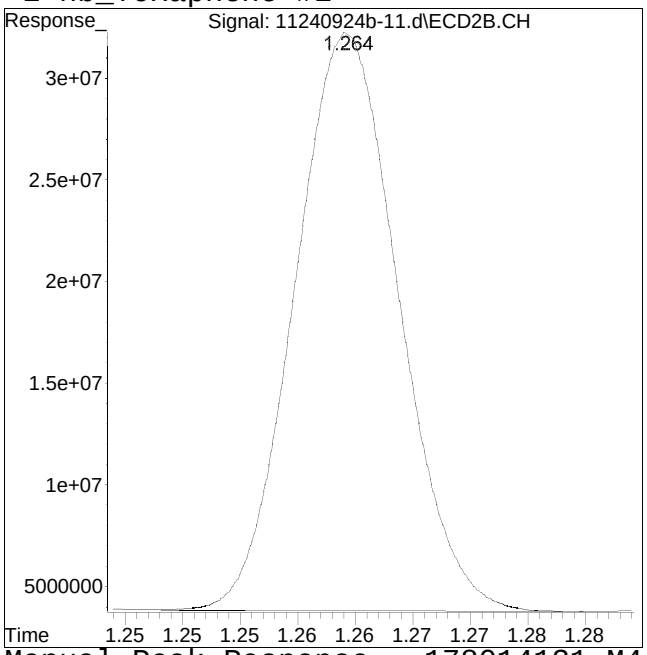
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-11.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:07 Instrument : Pest 11
Sample : L2453720-02,42,, p Quant Date : 9/25/2024 2:26 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 178829683



Manual Peak Response = 178014131 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:43
Operator : PEST11:jag
Sample : L2453720-03,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:46 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.191	1.263	281.3E6	175.6E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery =	97.29%	
	Standard Area 1 : #2 = 192001596				Recovery =	91.46%	
28) i	1-br-2-nb_Ch	1.191	1.263	281.3E6	175.6E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.191	1.263	281.3E6	175.6E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.518	1.710	428.2E6	262.4E6	36.628M4	33.545M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	73.26%	67.09%
27) s	Decachlorobi	6.125	6.756	429.0E6	225.0E6	32.788M4	30.222M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	65.58%	60.44%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:43
Operator : PEST11:jag
Sample : L2453720-03,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:46 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

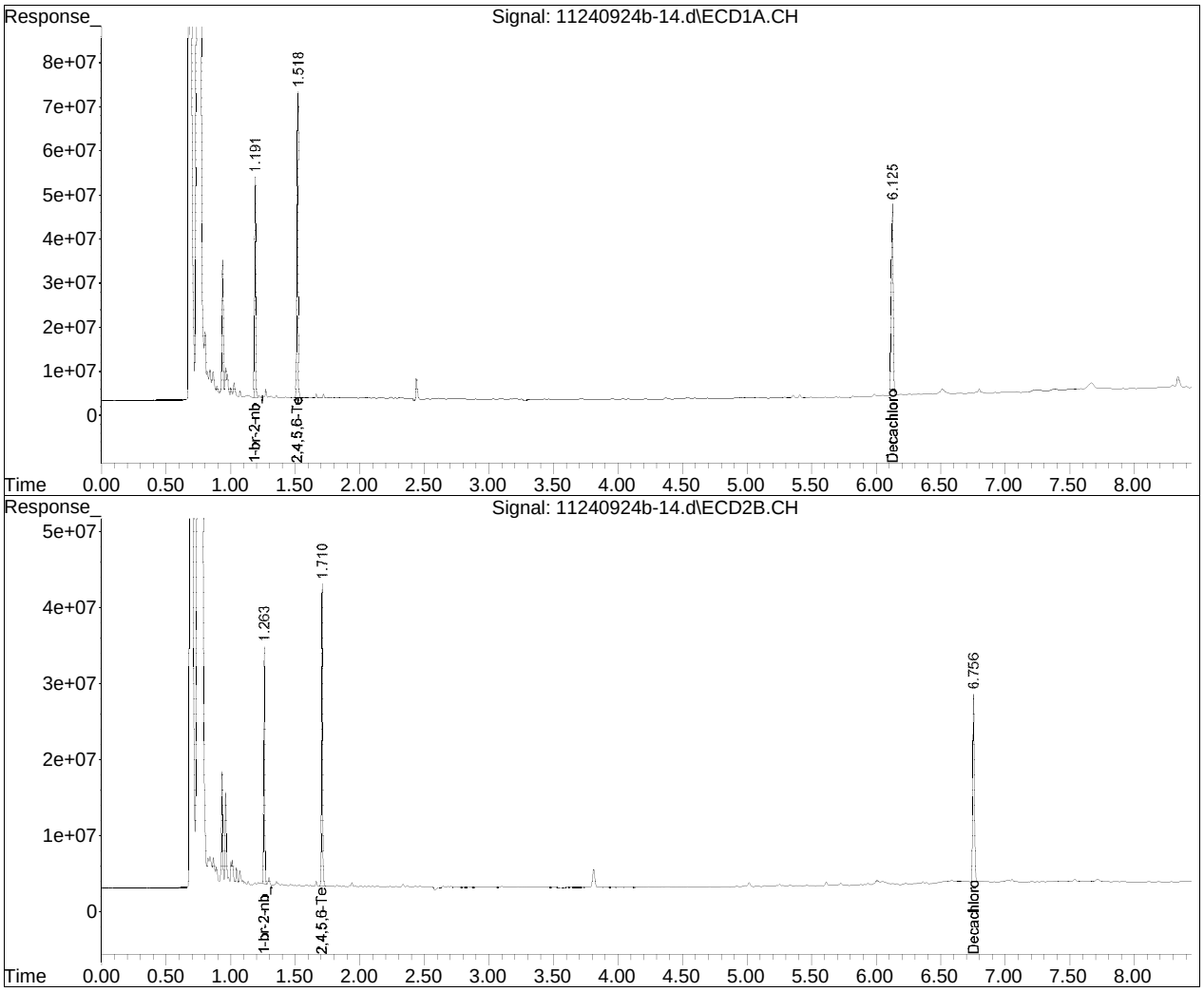
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:43
Operator : PEST11:jag
Sample : L2453720-03,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:46 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

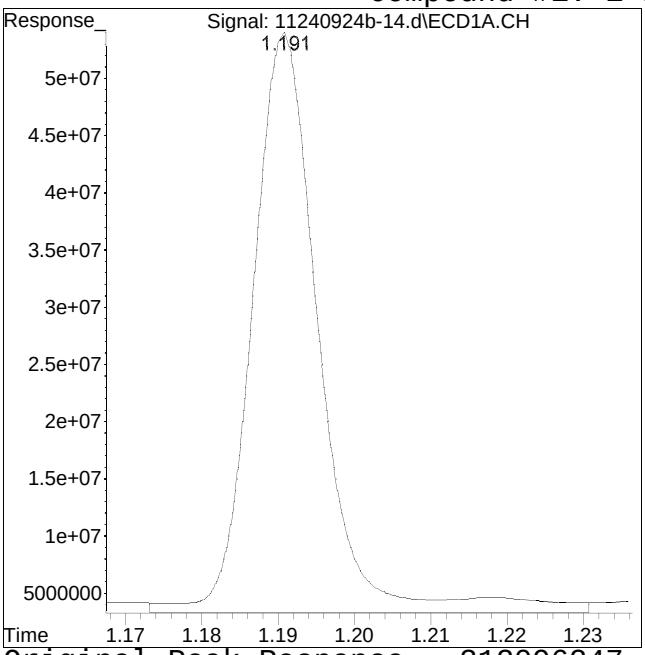
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

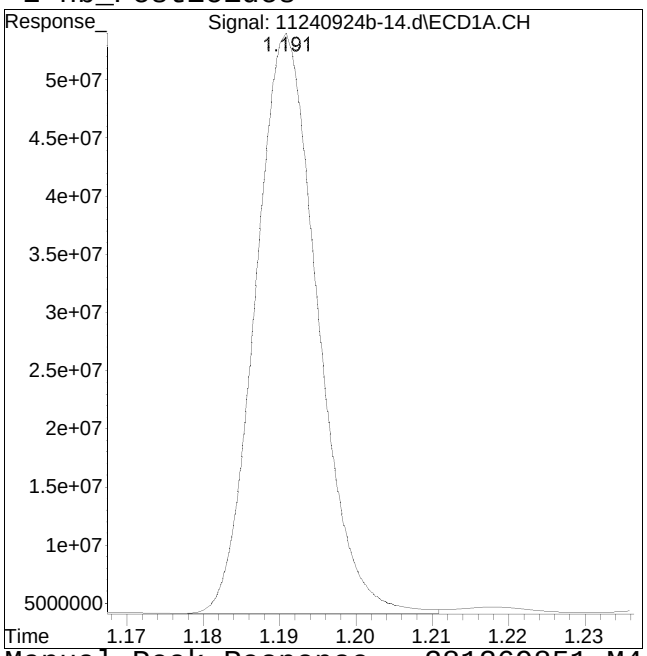


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-14.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:43 Instrument : Pest 11
Sample : L2453720-03,42,, Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



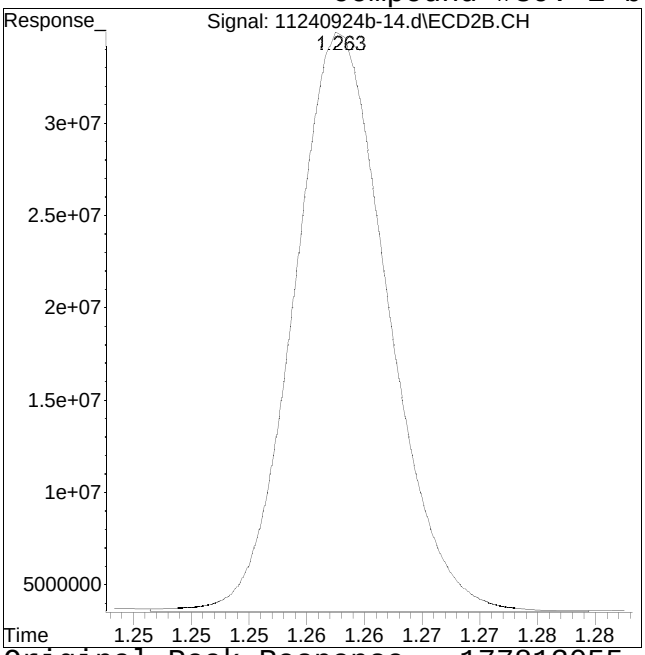


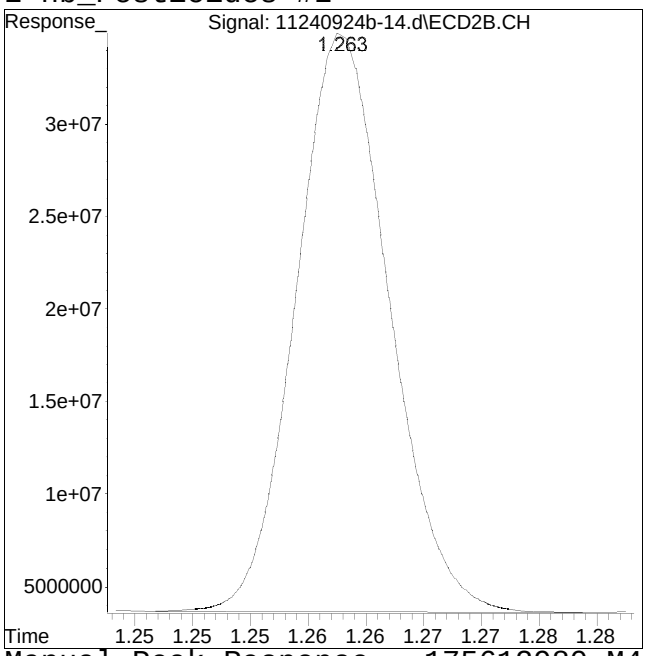
Original Peak Response = 312096247 Manual Peak Response = 281269851 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-14.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:43 Instrument : Pest 11
Sample : L2453720-03,42,, Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



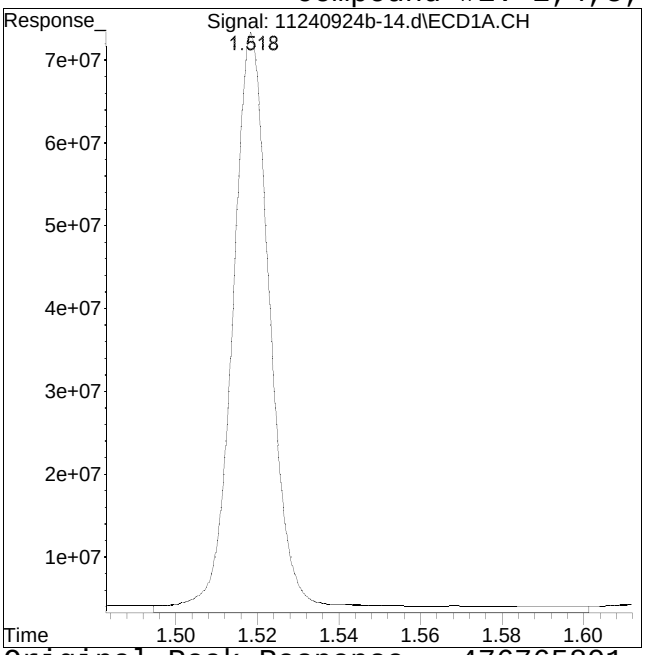


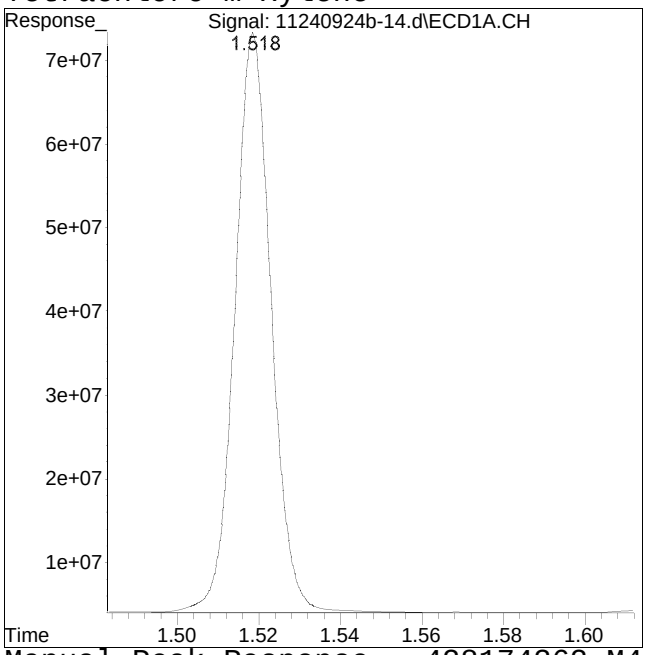
Original Peak Response = 177813055 Manual Peak Response = 175612980 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-14.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:43 Instrument : Pest 11
Sample : L2453720-03,42,, Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



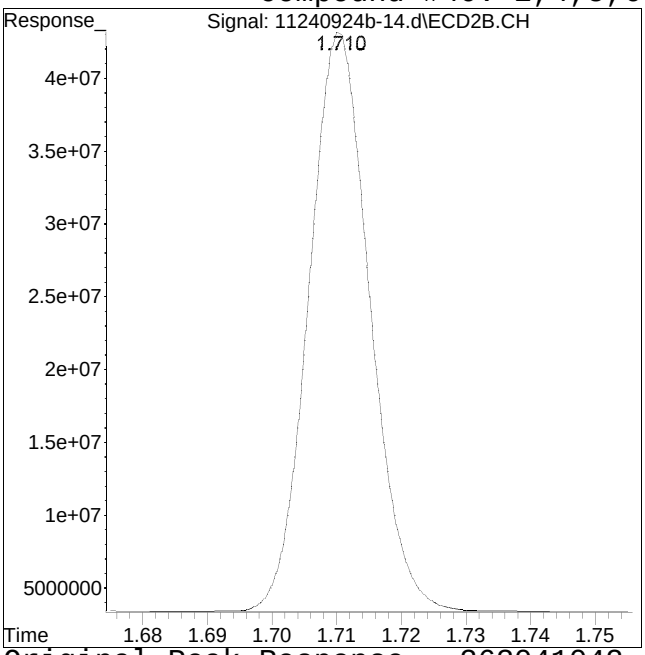


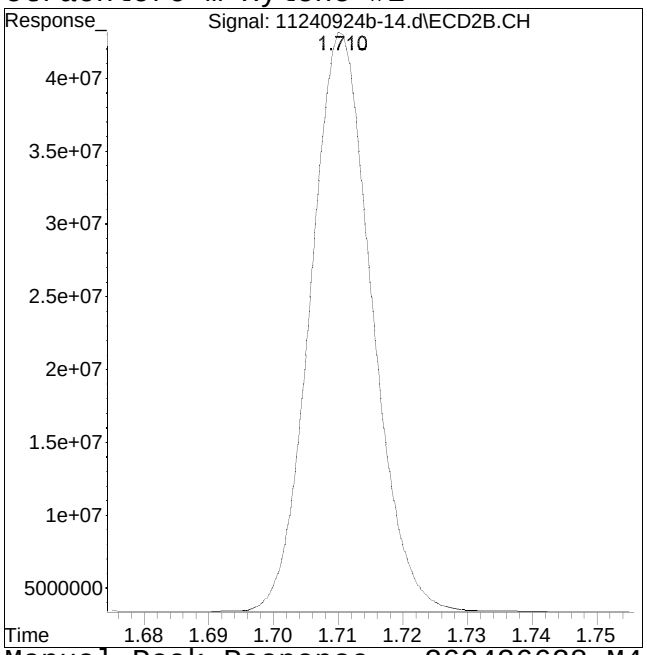
Original Peak Response = 476765801 Manual Peak Response = 428174362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-14.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:43 Instrument : Pest 11
Sample : L2453720-03,42,, Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



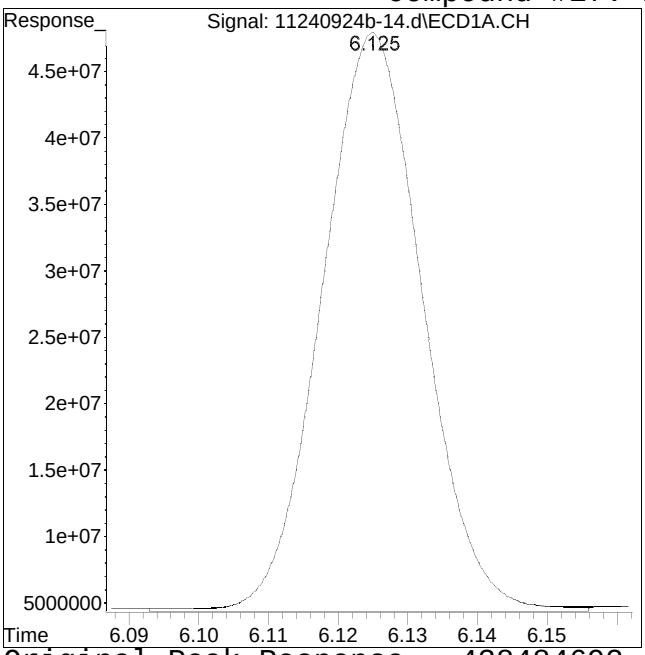


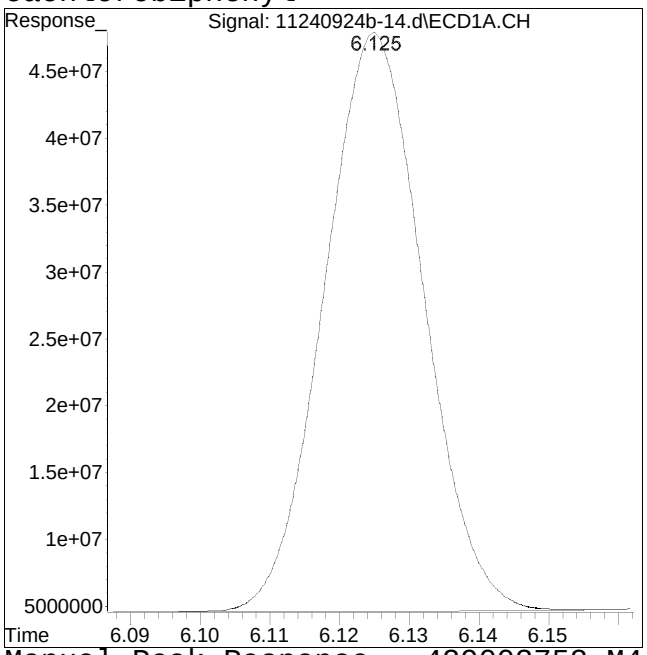
Original Peak Response = 263041042 Manual Peak Response = 262426628 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-14.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:43 Instrument : Pest 11
Sample : L2453720-03,42,, Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



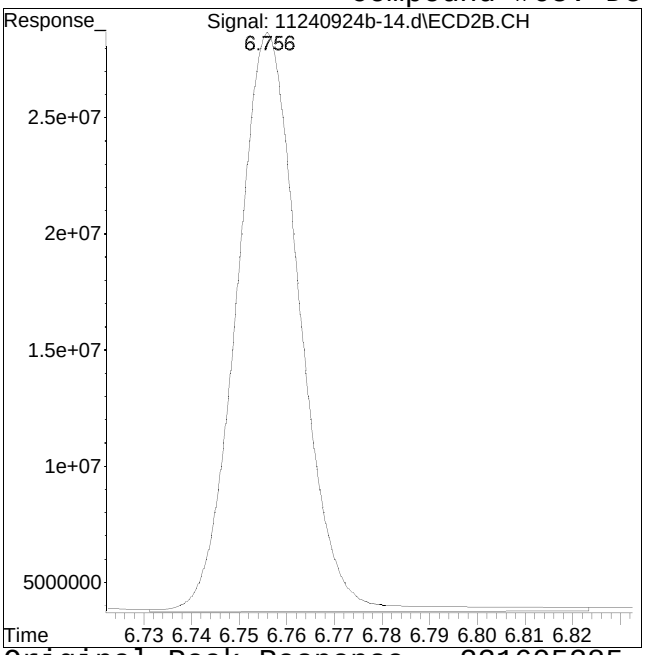


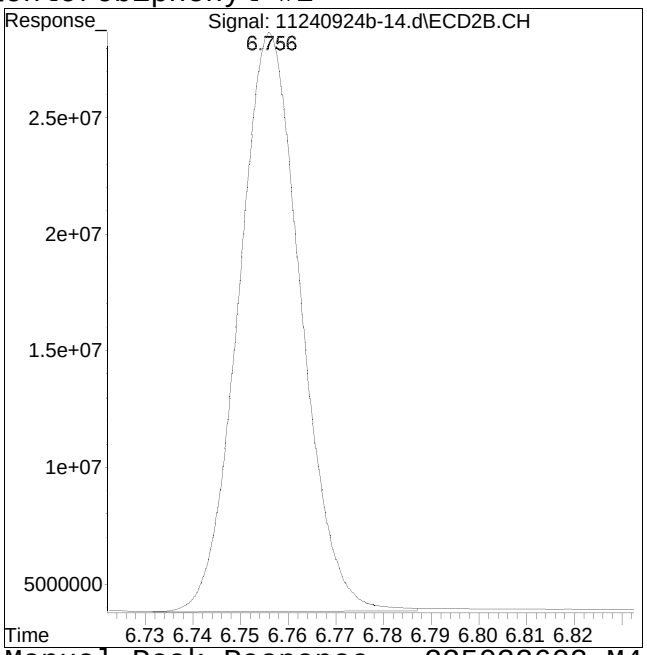
Original Peak Response = 438484692 Manual Peak Response = 429003752 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-14.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:43 Instrument : Pest 11
Sample : L2453720-03,42,, Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2



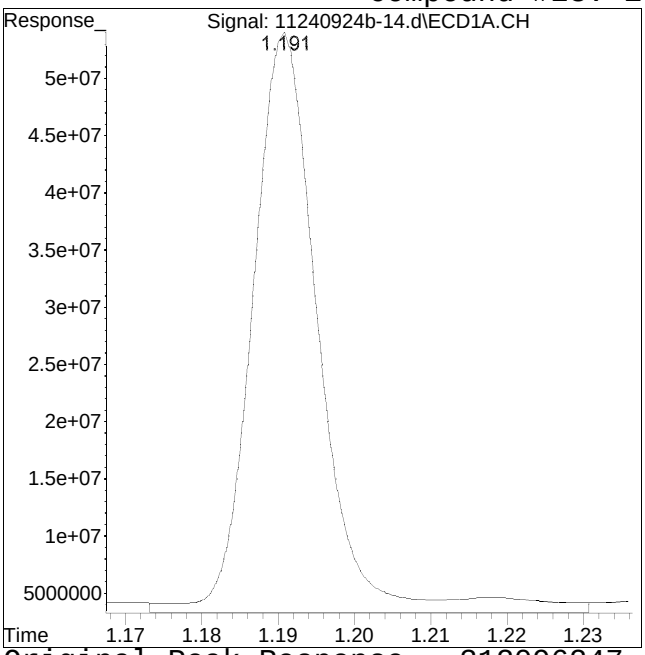


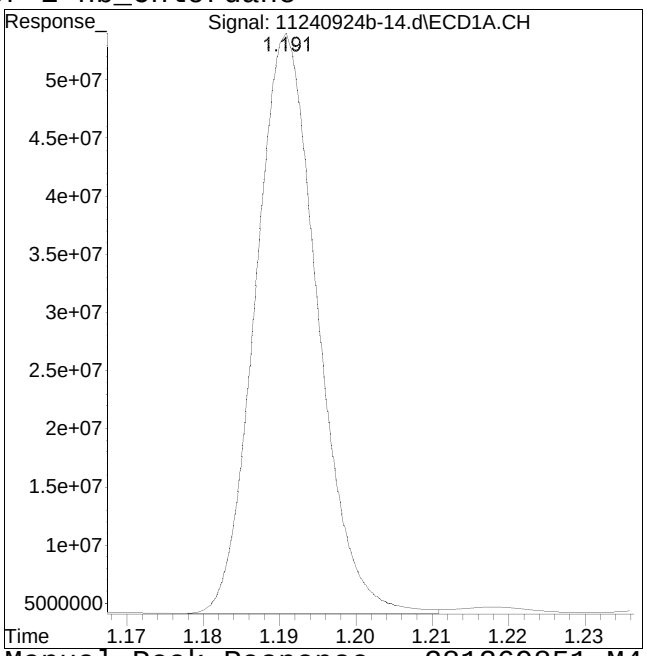
Original Peak Response = 231605385 Manual Peak Response = 225032602 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-14.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:43 Instrument : Pest 11
Sample : L2453720-03,42,, Quant Date : 9/25/2024 2:26 pm

Compound #28: 1-br-2-nb_Chlordane



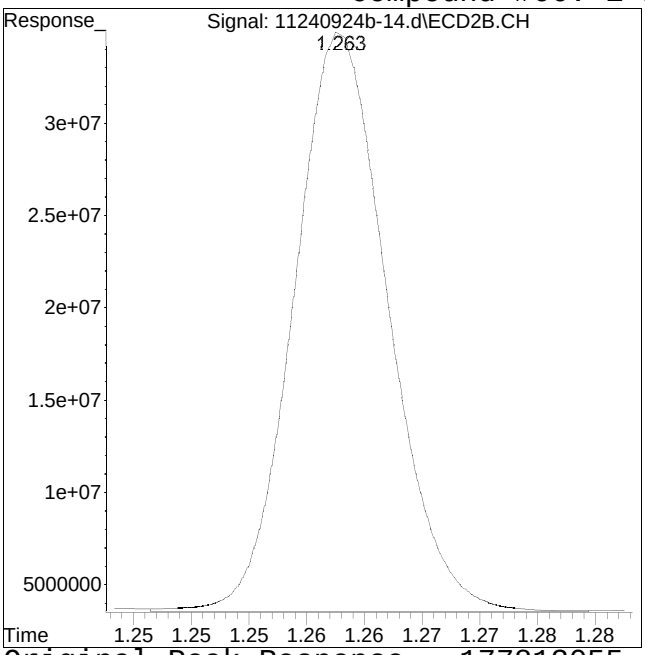


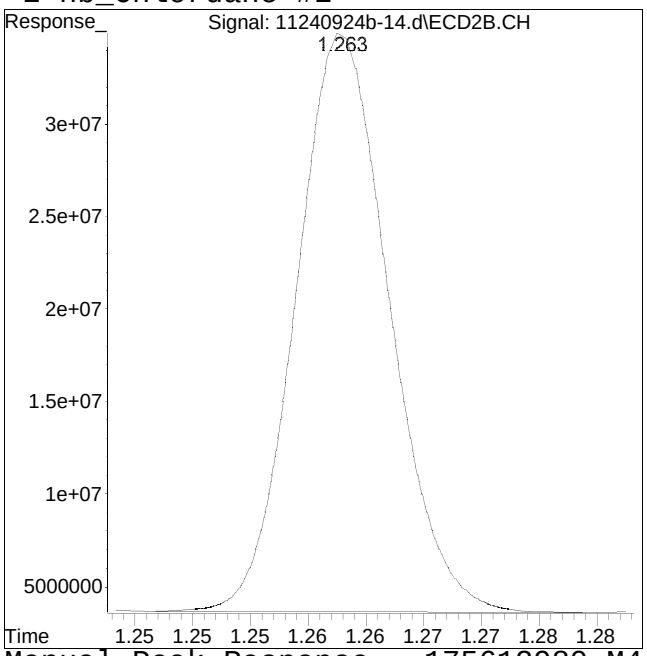
Original Peak Response = 312096247 Manual Peak Response = 281269851 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-14.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:43 Instrument : Pest 11
Sample : L2453720-03,42,, Quant Date : 9/25/2024 2:26 pm

Compound #66: 1-br-2-nb_Chlordane #2



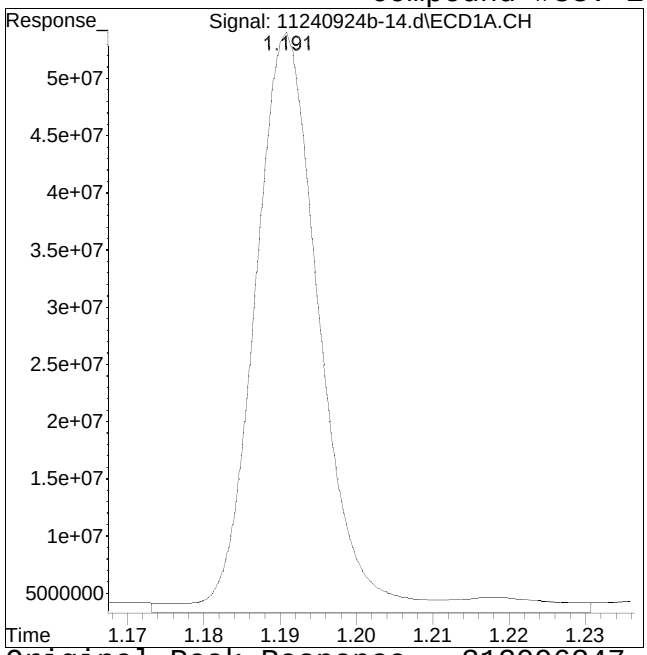


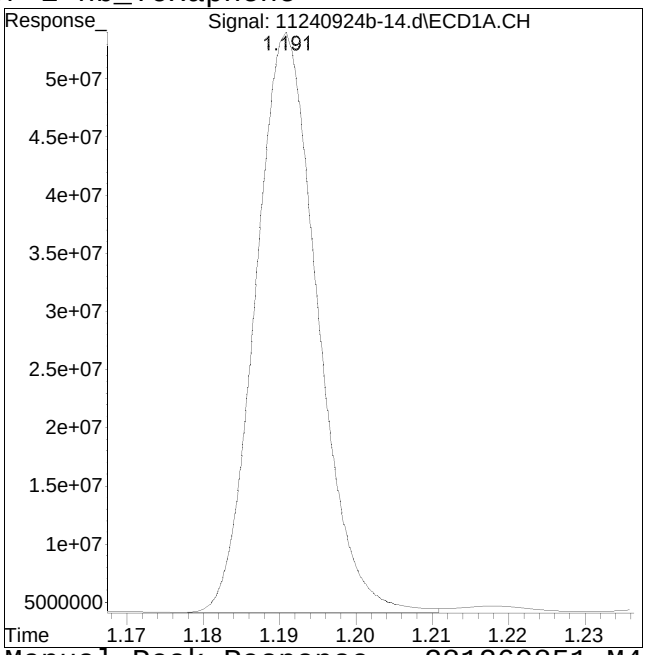
Original Peak Response = 177813055 Manual Peak Response = 175612980 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-14.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:43 Instrument : Pest 11
Sample : L2453720-03,42,, Quant Date : 9/25/2024 2:26 pm

Compound #33: 1-br-2-nb_Toxaphene



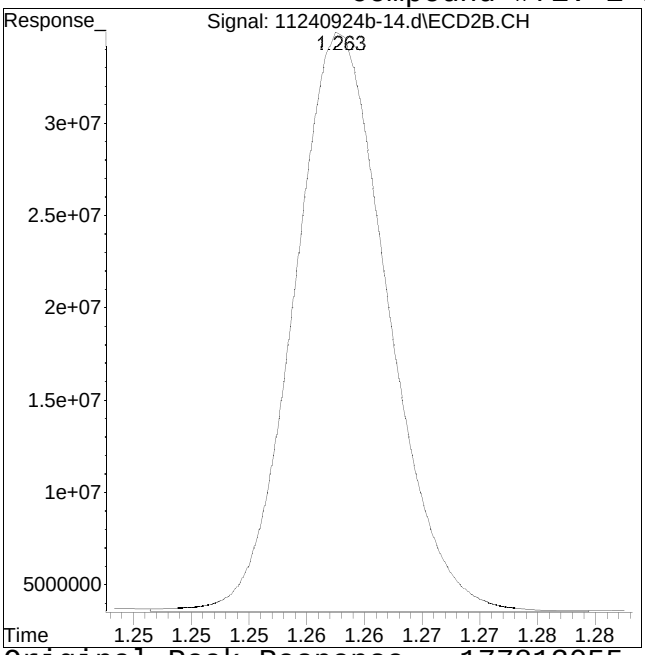


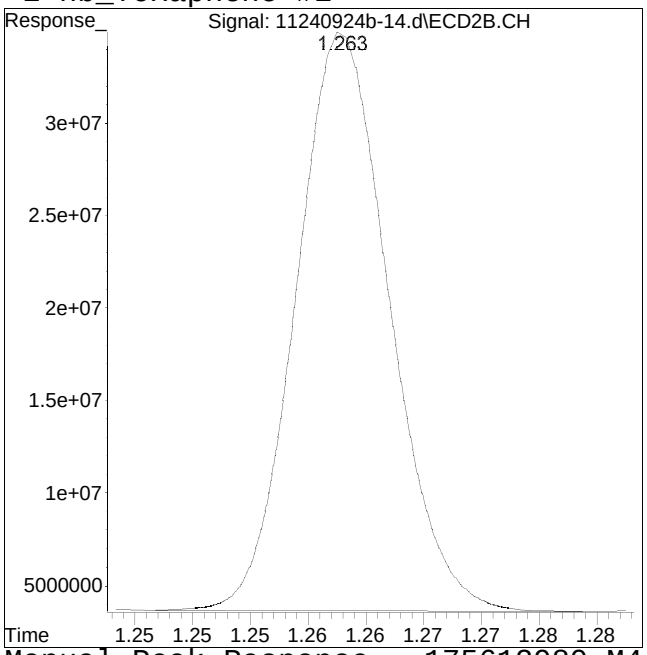
Original Peak Response = 312096247 Manual Peak Response = 281269851 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-14.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:43 Instrument : Pest 11
Sample : L2453720-03,42,, Quant Date : 9/25/2024 2:26 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 177813055 Manual Peak Response = 175612980 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:55
Operator : PEST11:jag
Sample : L2453720-04,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:48 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.191	1.264	293.3E6	186.7E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery = 101.44%		
	Standard Area 1 : #2 = 192001596				Recovery = 97.24%		
28) i	1-br-2-nb_Ch	1.191	1.264	293.3E6	186.7E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.191	1.264	293.3E6	186.7E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.519	1.711	411.2E6	253.9E6	33.735M3	30.524M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 67.47%		61.05%
27) s	Decachlorobi	6.125	6.756	406.9E6	215.5E6	29.827M4	27.227M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 59.65%		54.45%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:55
Operator : PEST11:jag
Sample : L2453720-04,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:48 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

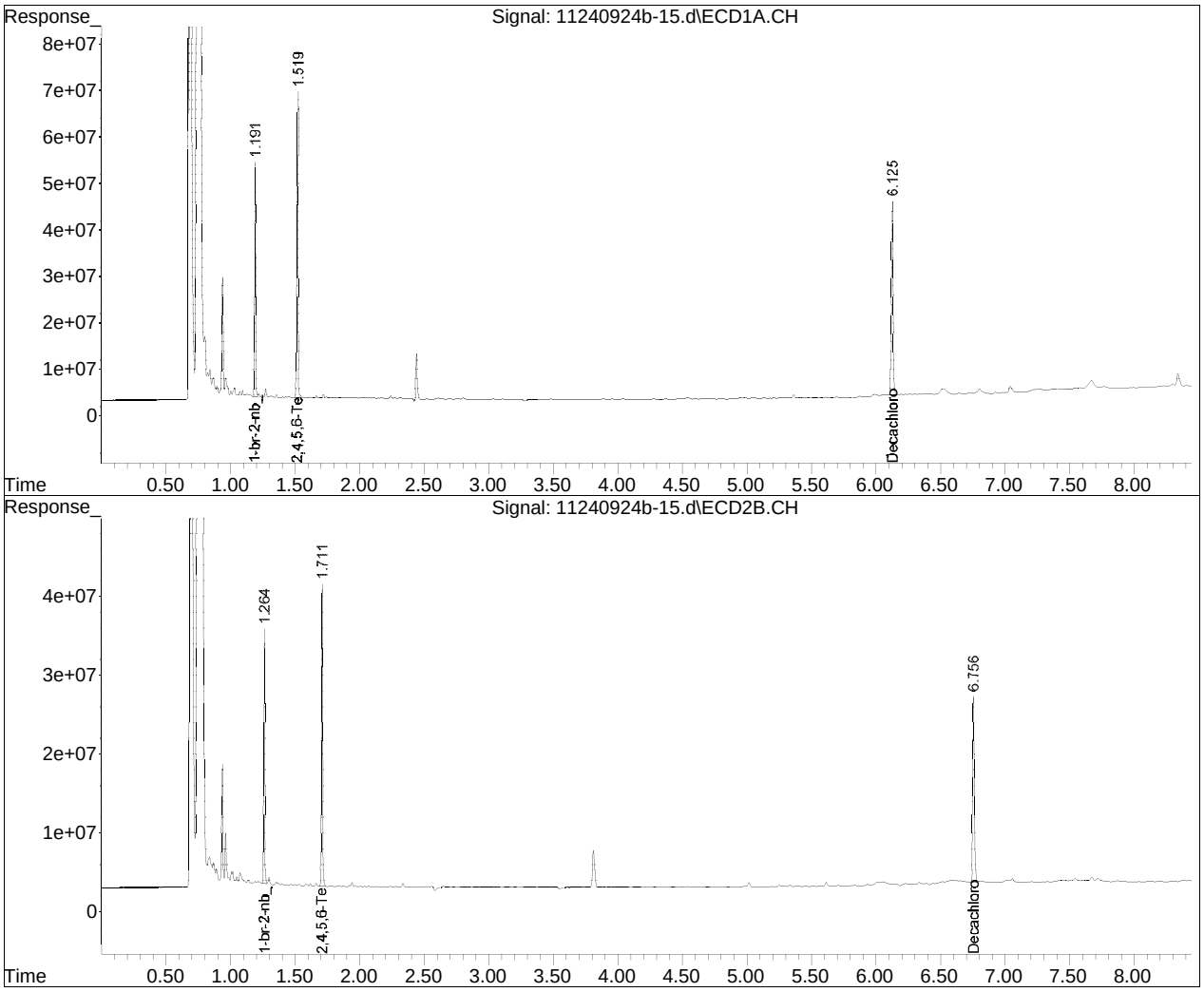
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:55
Operator : PEST11:jag
Sample : L2453720-04,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:48 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

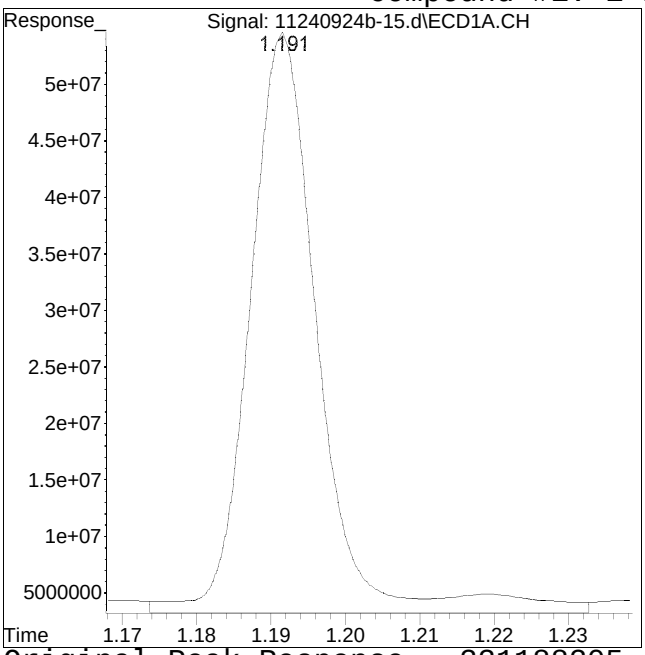
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

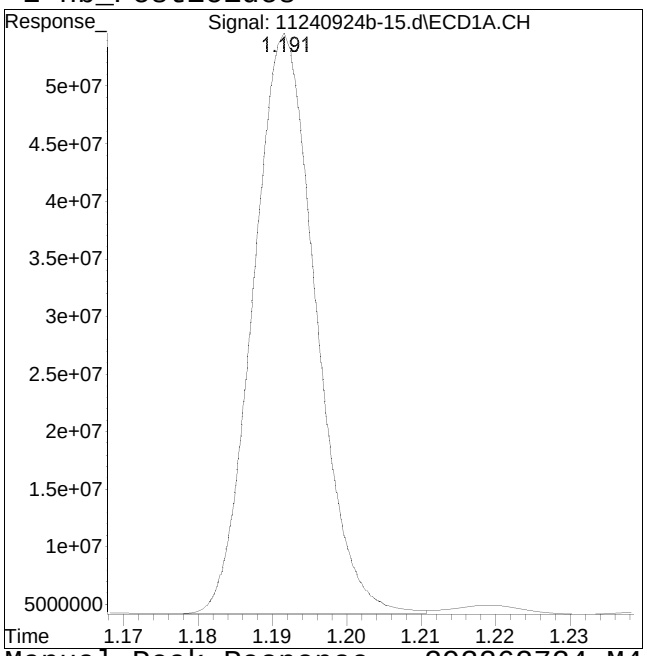


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-15.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:55 Instrument : Pest 11
Sample : L2453720-04,42,, Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



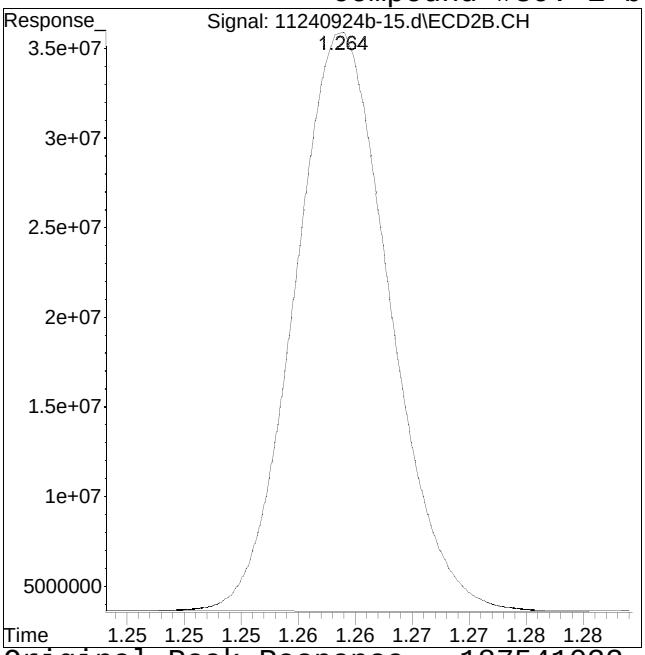


Original Peak Response = 331188305 Manual Peak Response = 293262724 M4
M4 = Poor automated baseline construction.

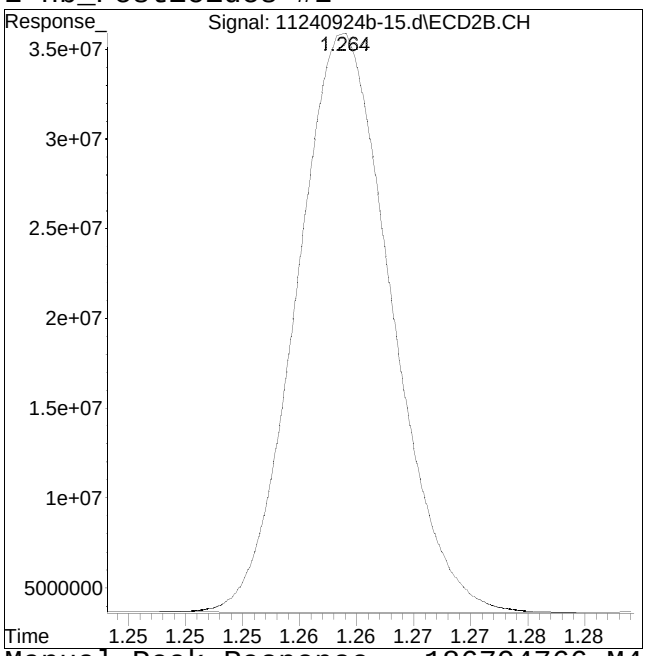
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-15.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:55 Instrument : Pest 11
Sample : L2453720-04,42,, Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 187541033



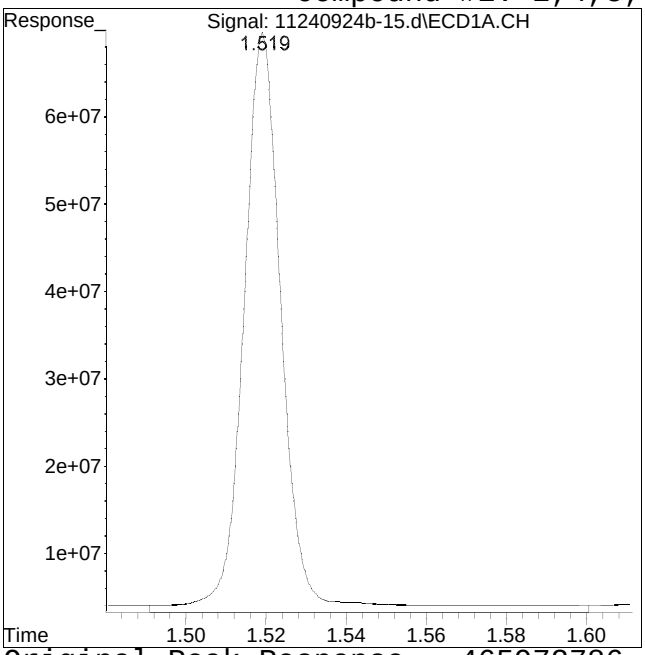
Manual Peak Response = 186704766 M4

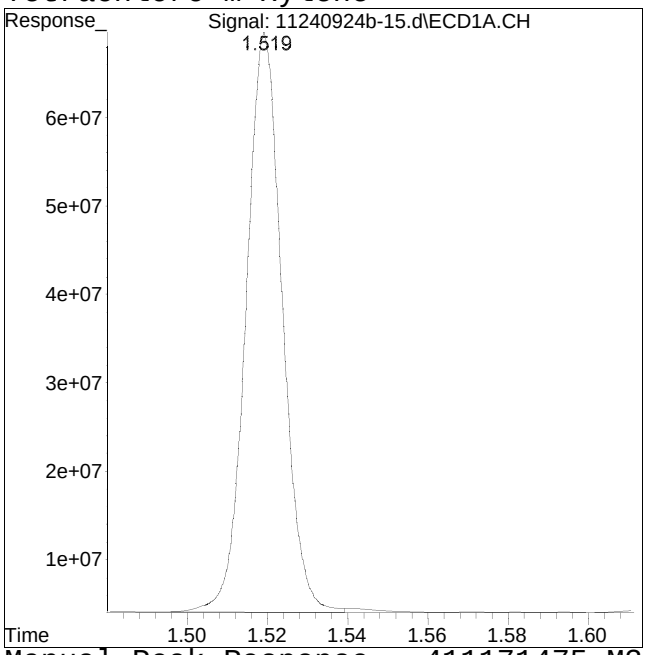
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-15.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:55 Instrument : Pest 11
Sample : L2453720-04,42,, Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



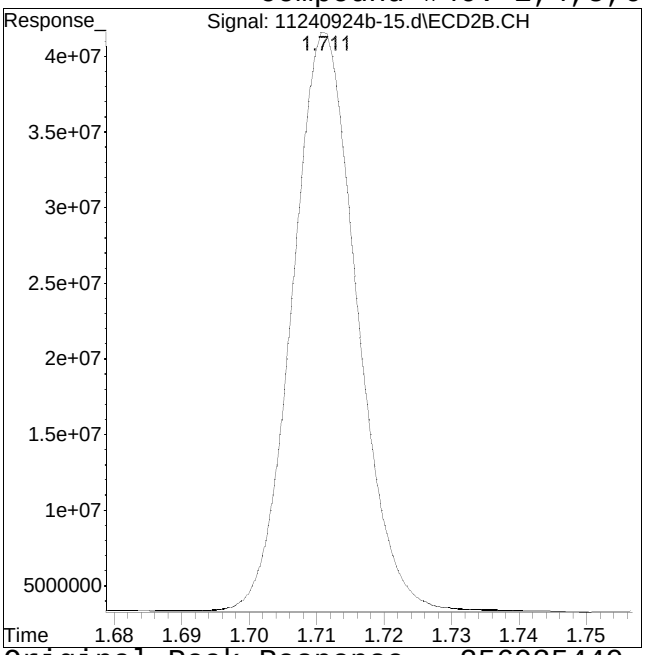


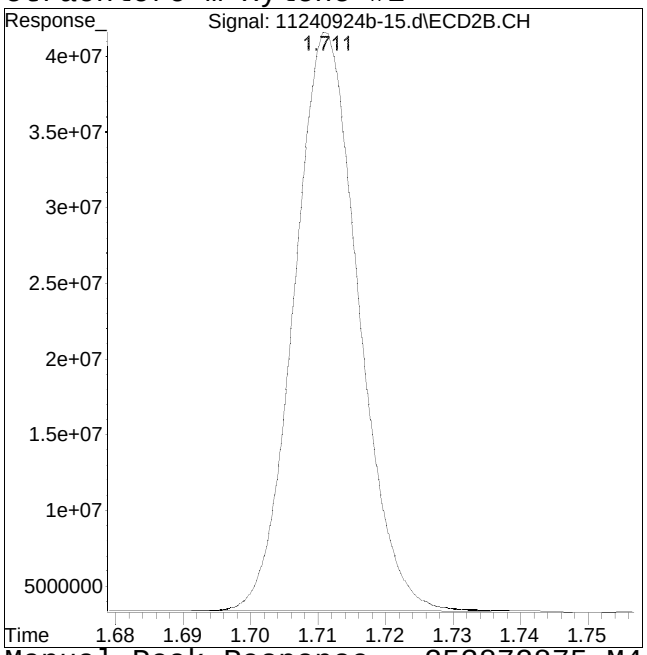
Original Peak Response = 465972786 Manual Peak Response = 411171475 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-15.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:55 Instrument : Pest 11
Sample : L2453720-04,42,, Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



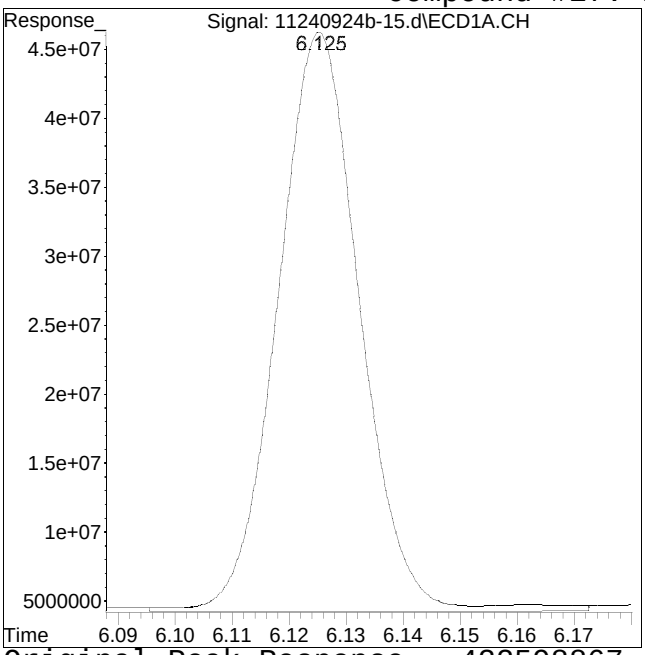


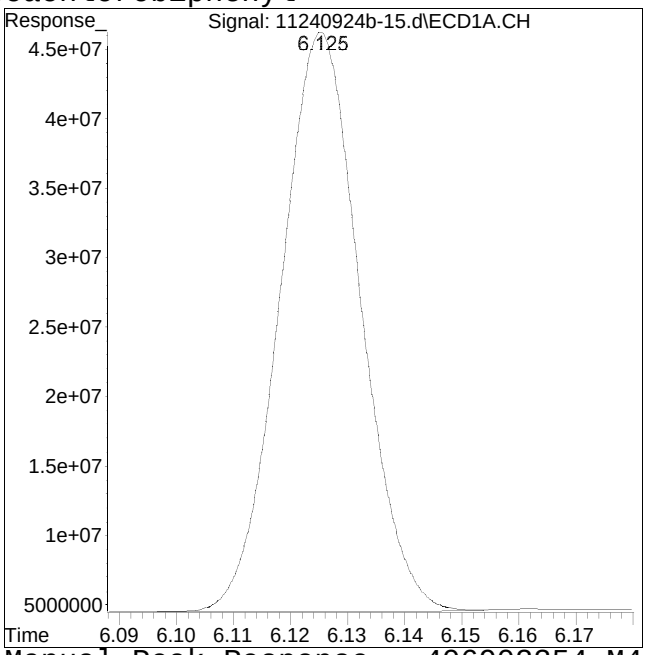
Original Peak Response = 256935440 Manual Peak Response = 253872875 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-15.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:55 Instrument : Pest 11
Sample : L2453720-04,42,, Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



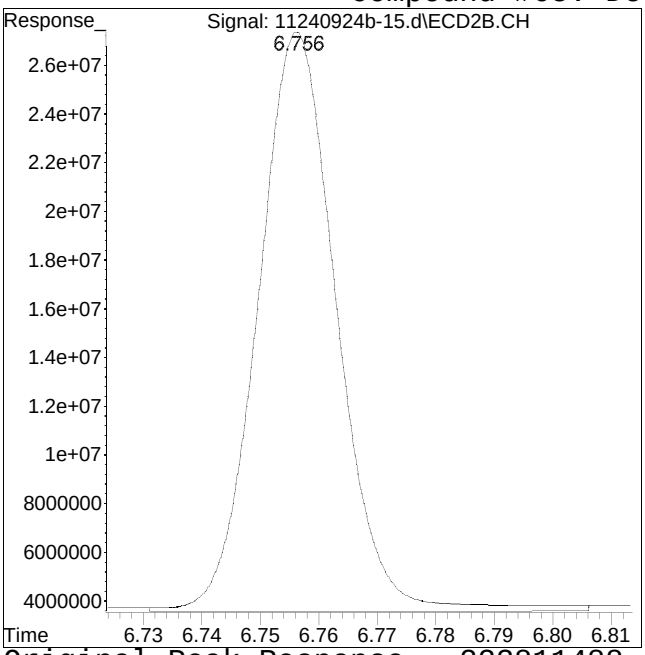


Original Peak Response = 422598867 Manual Peak Response = 406902354 M4
M4 = Poor automated baseline construction.

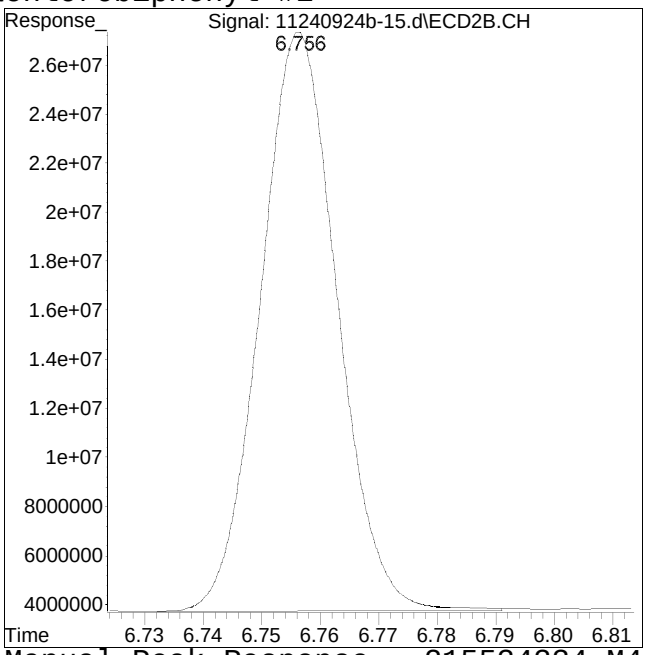
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-15.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:55 Instrument : Pest 11
Sample : L2453720-04,42,, Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 223811488



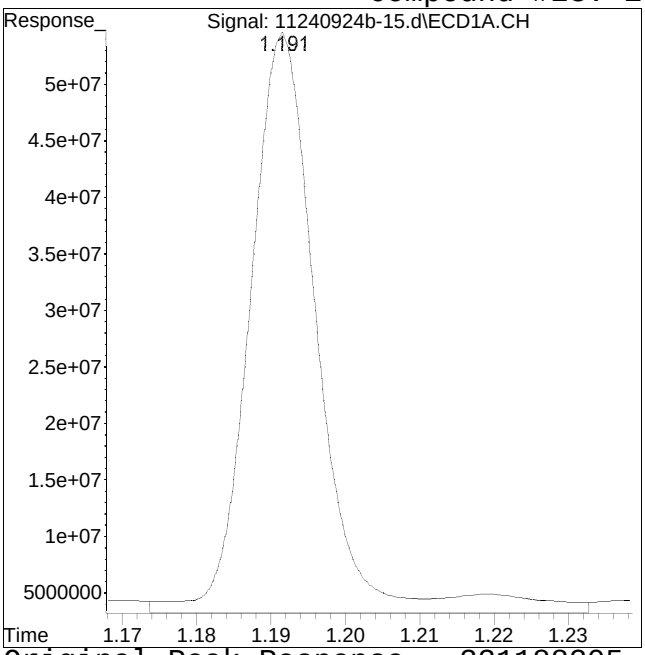
Manual Peak Response = 215534334 M4

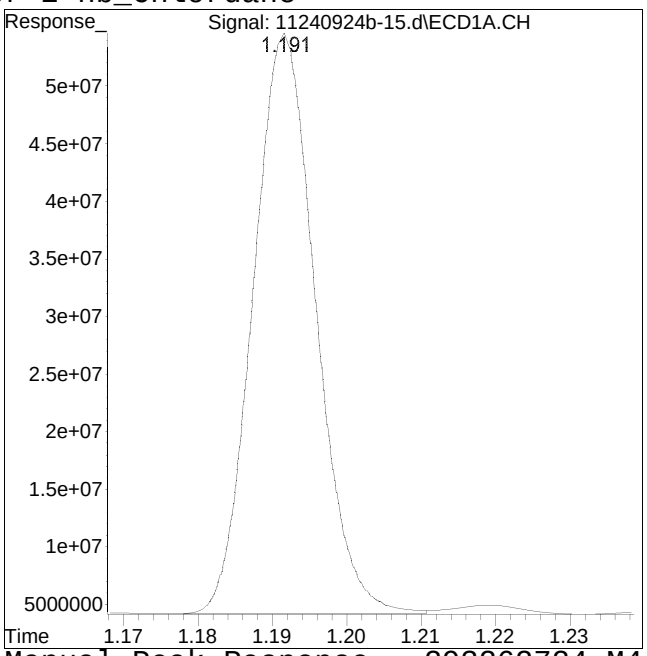
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-15.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:55 Instrument : Pest 11
Sample : L2453720-04,42,, Quant Date : 9/25/2024 2:26 pm

Compound #28: 1-br-2-nb_Chlordane



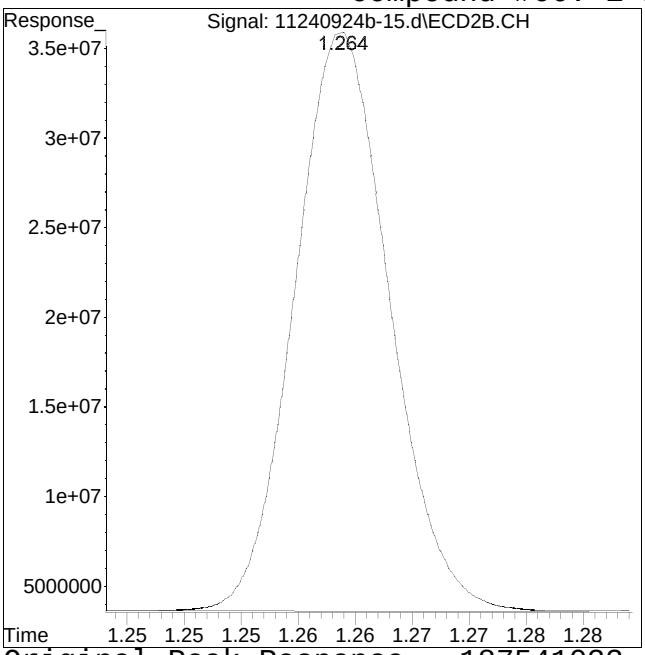


Original Peak Response = 331188305 Manual Peak Response = 293262724 M4
M4 = Poor automated baseline construction.

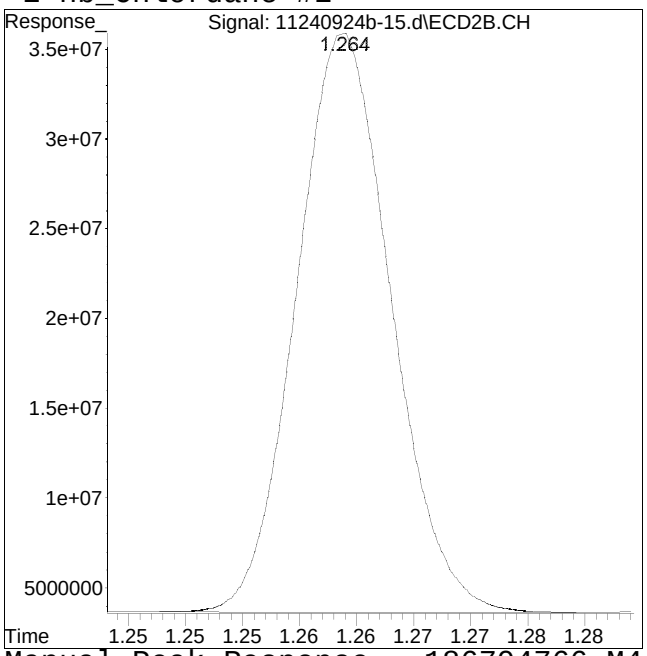
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-15.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:55 Instrument : Pest 11
Sample : L2453720-04,42,, Quant Date : 9/25/2024 2:26 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 187541033



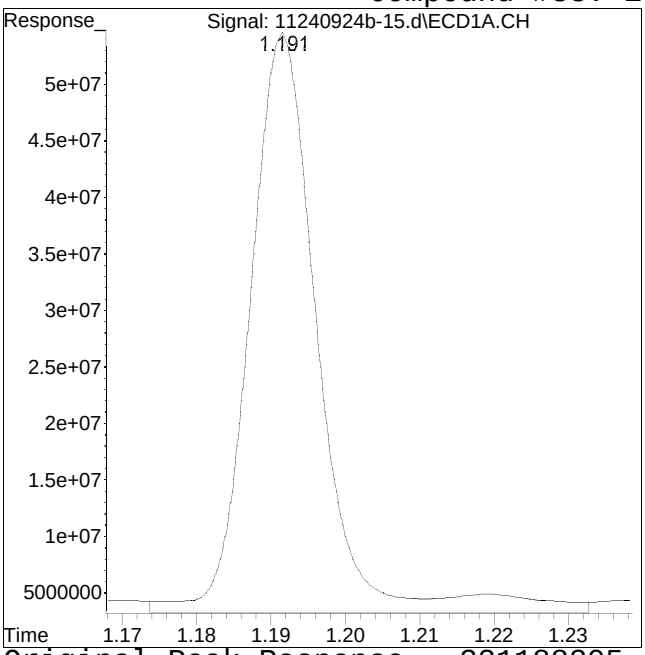
Manual Peak Response = 186704766 M4

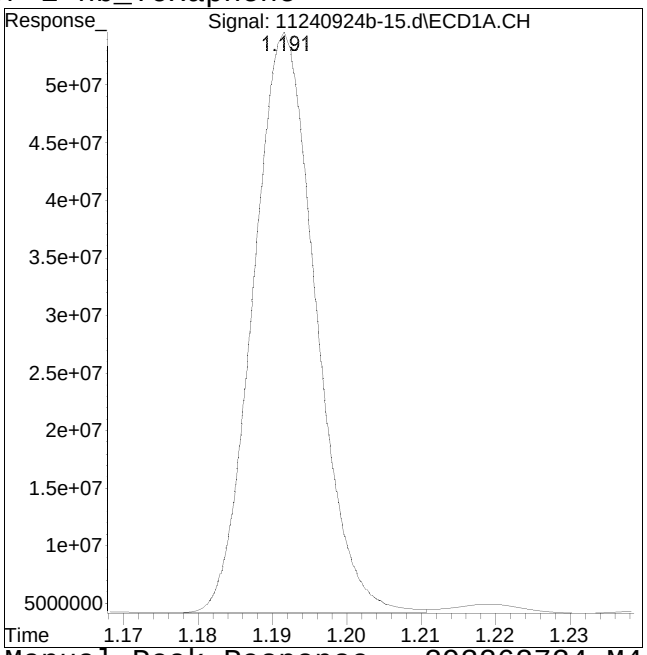
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-15.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:55 Instrument : Pest 11
Sample : L2453720-04,42,, Quant Date : 9/25/2024 2:26 pm

Compound #33: 1-br-2-nb_Toxaphene



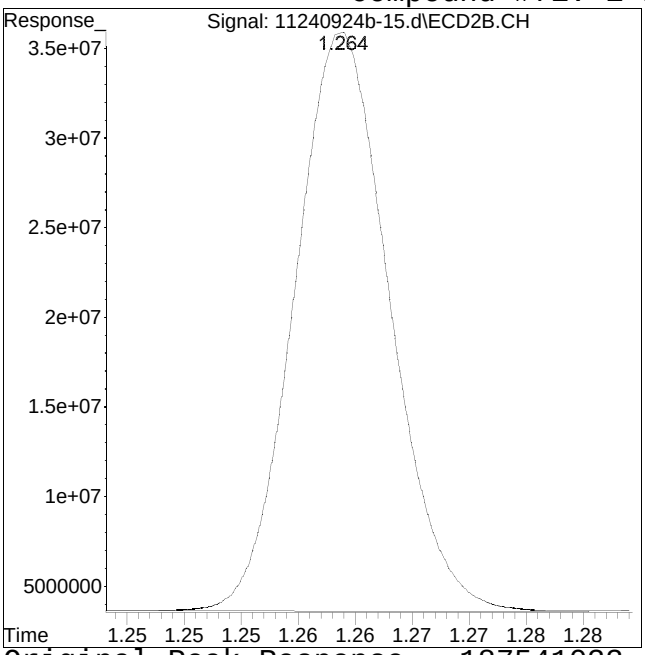


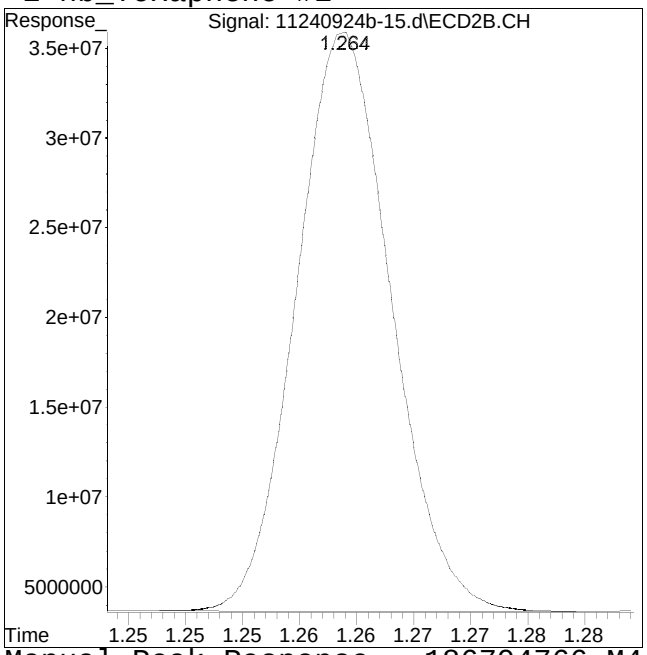
Original Peak Response = 331188305 Manual Peak Response = 293262724 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-15.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:55 Instrument : Pest 11
Sample : L2453720-04,42,, Quant Date : 9/25/2024 2:26 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 187541033 Manual Peak Response = 186704766 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:07
Operator : PEST11:jag
Sample : L2453720-06,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:51 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.191	1.263	278.9E6	174.4E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery =	96.45%	
	Standard Area 1 : #2 = 192001596				Recovery =	90.86%	
28) i	1-br-2-nb_Ch	1.191	1.263	278.9E6	174.4E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.191	1.263	278.9E6	174.4E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.518	1.711	329.8E6	203.6E6	28.453M4	26.206M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	56.91%	52.41%
27) s	Decachlorobi	6.125	6.756	403.1E6	214.6E6	31.076M4	29.007M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	62.15%	58.01%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:07
Operator : PEST11:jag
Sample : L2453720-06,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:51 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

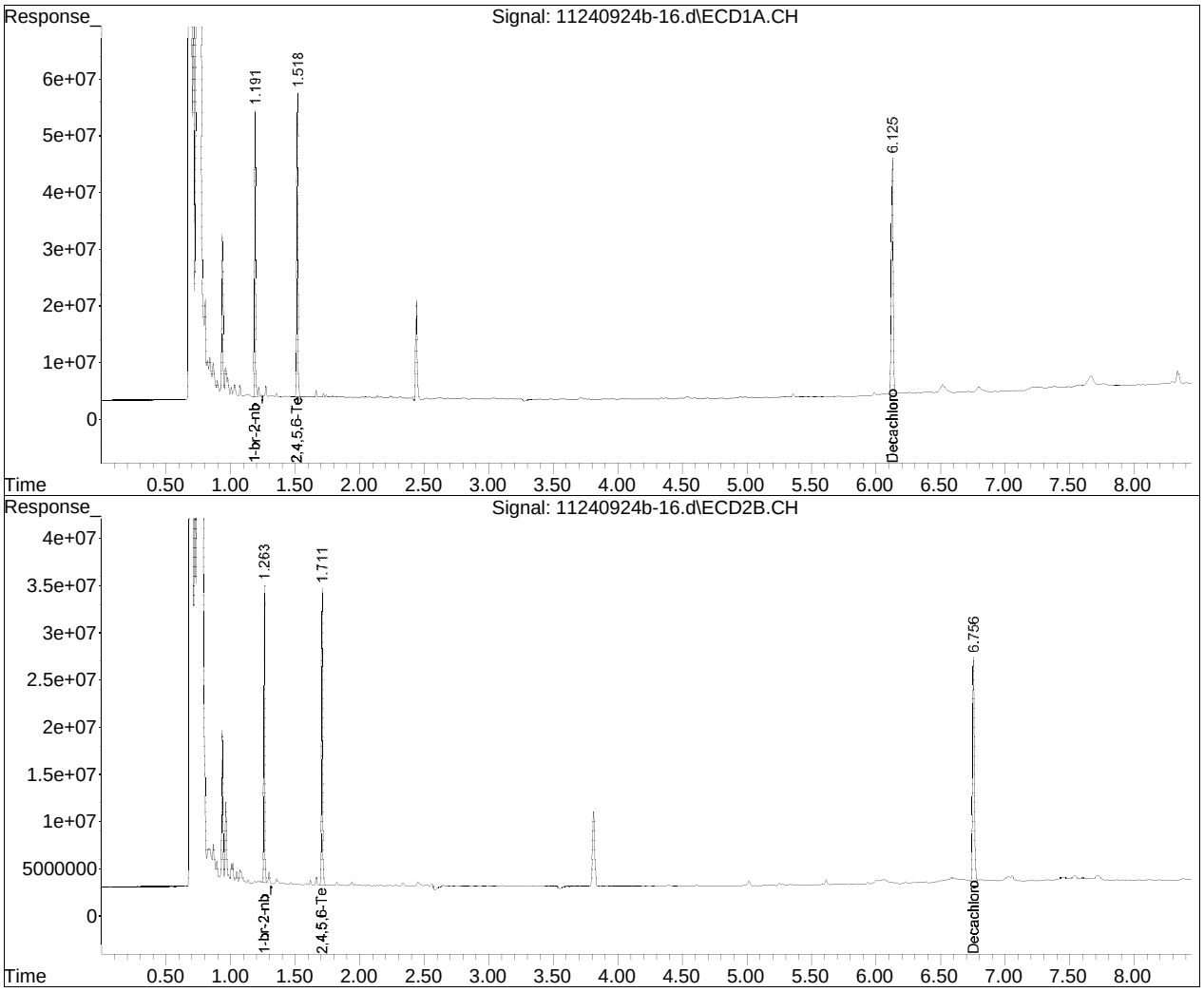
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:07
Operator : PEST11:jag
Sample : L2453720-06,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:51 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

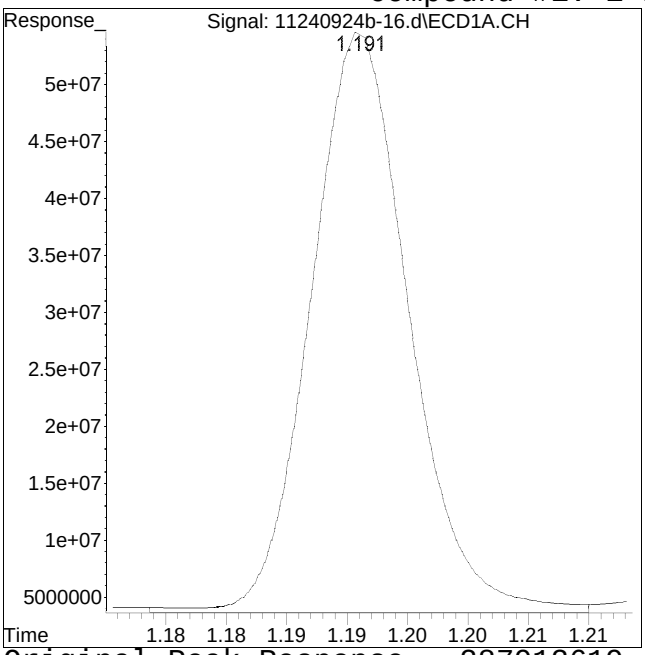
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

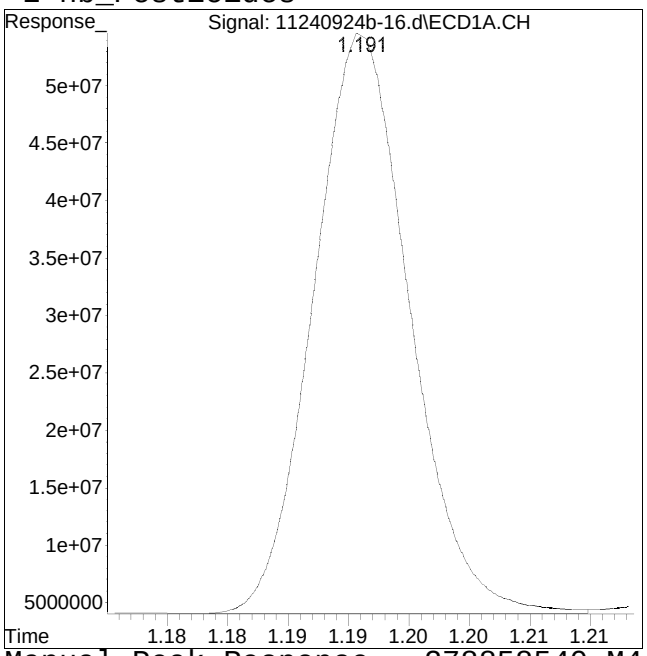


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-16.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:07 Instrument : Pest 11
Sample : L2453720-06,42,, Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



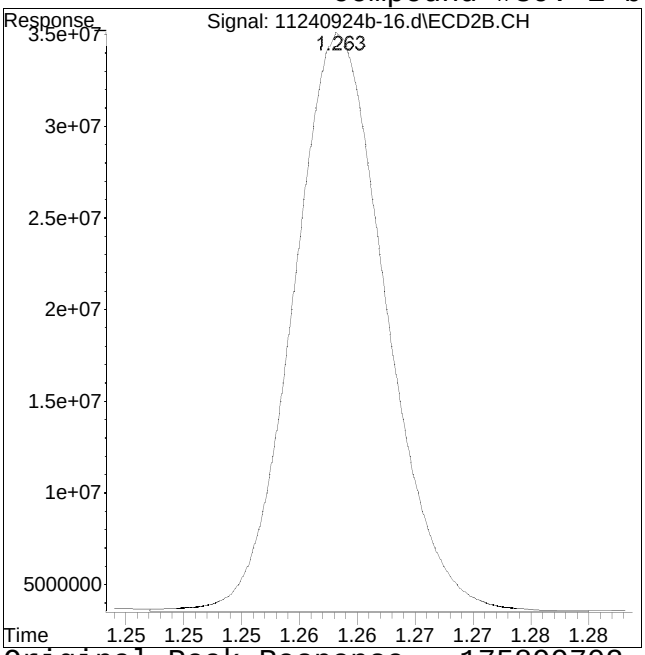


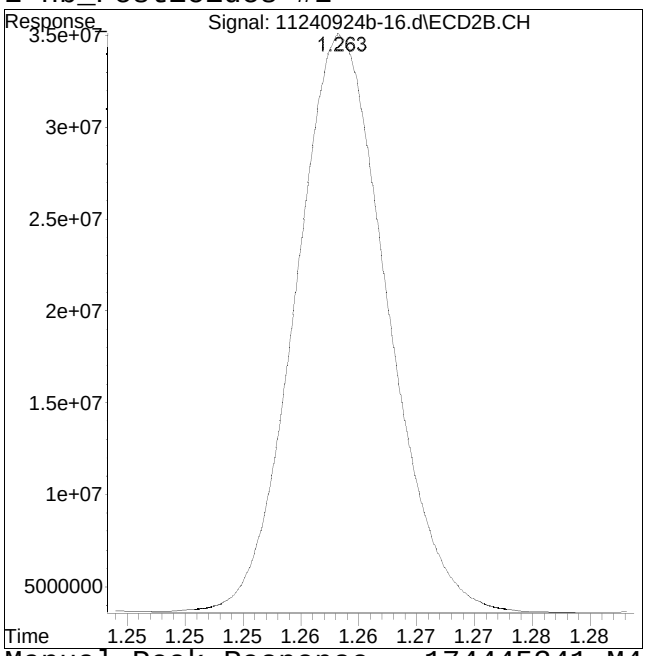
Original Peak Response = 287912619 Manual Peak Response = 278858540 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-16.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:07 Instrument : Pest 11
Sample : L2453720-06,42,, Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



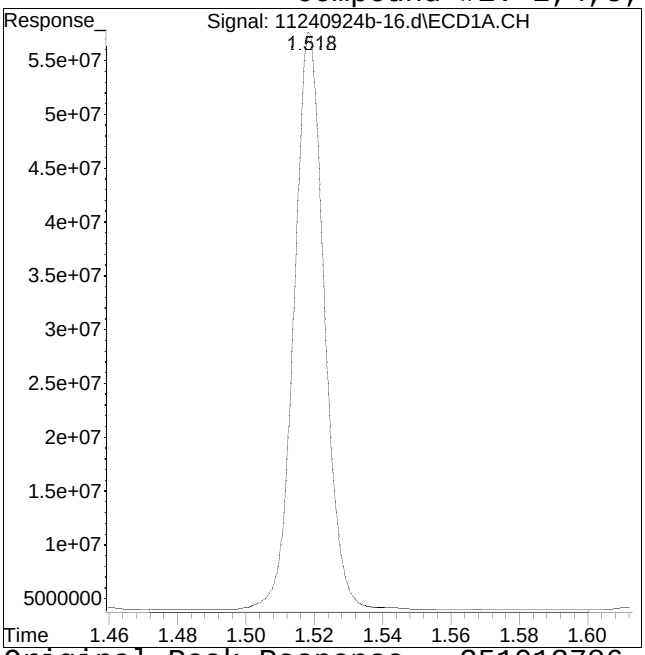


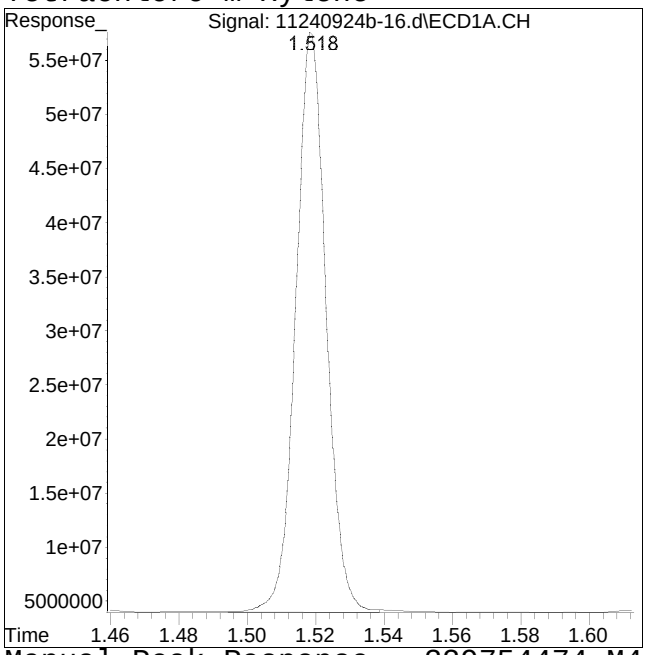
Original Peak Response = 175899702 Manual Peak Response = 174445341 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-16.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:07 Instrument : Pest 11
Sample : L2453720-06,42,, Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



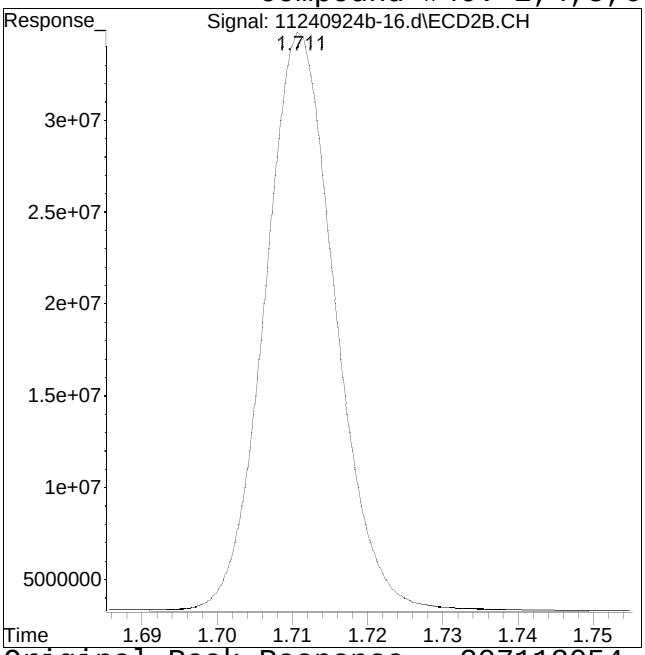


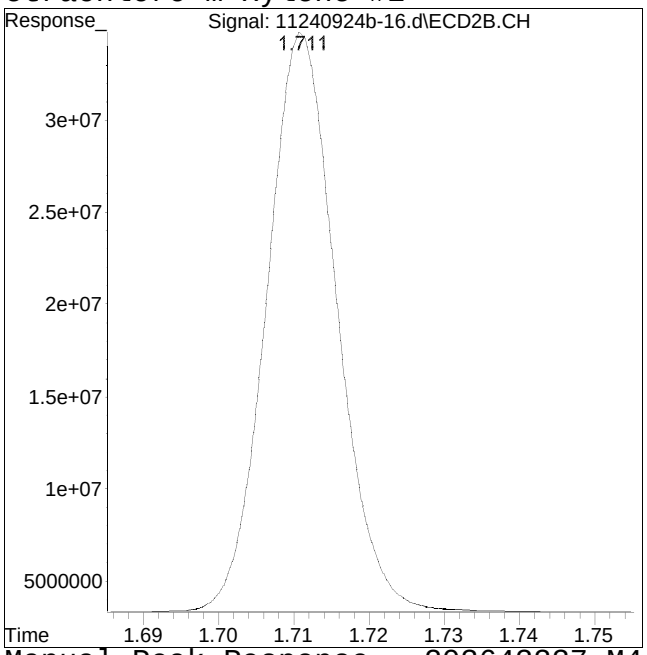
Original Peak Response = 351013786 Manual Peak Response = 329754474 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-16.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:07 Instrument : Pest 11
Sample : L2453720-06,42,, Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



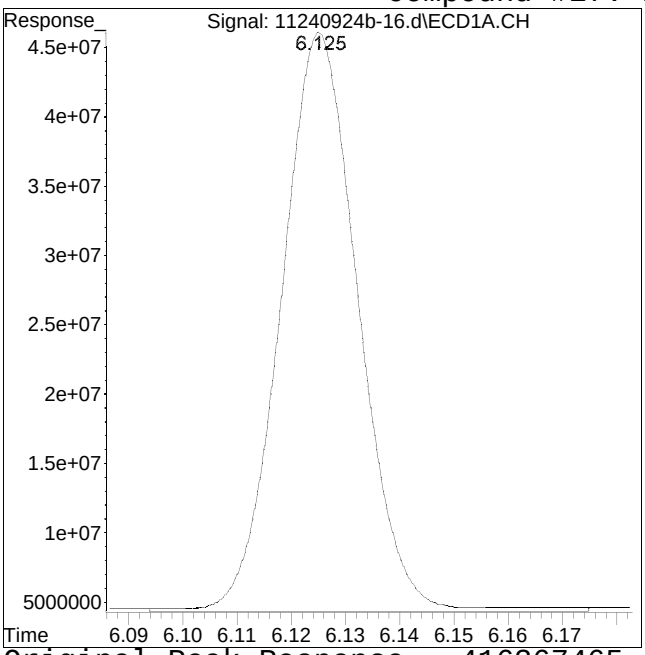


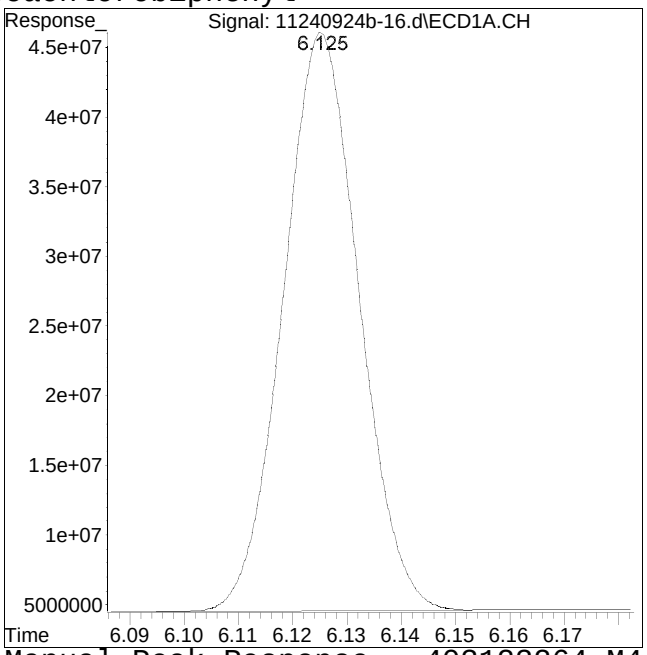
Original Peak Response = 207112054 Manual Peak Response = 203643337 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-16.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:07 Instrument : Pest 11
Sample : L2453720-06,42,, Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



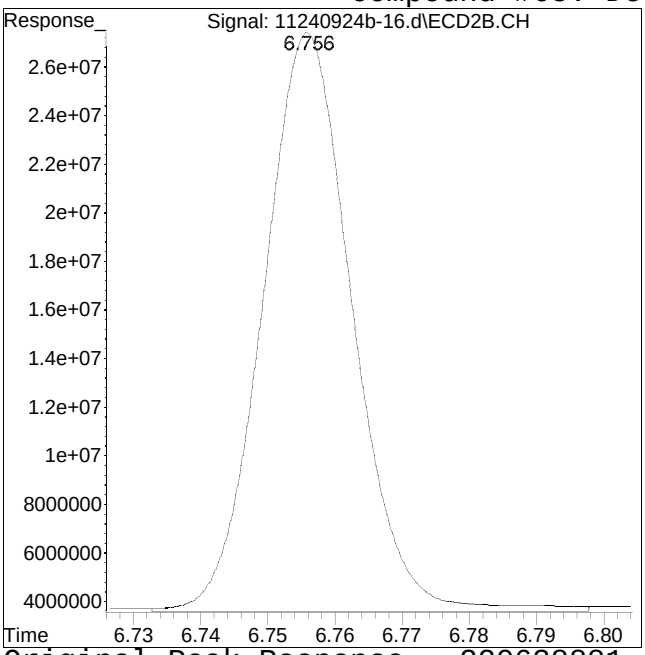


Original Peak Response = 416367465 Manual Peak Response = 403123264 M4
M4 = Poor automated baseline construction.

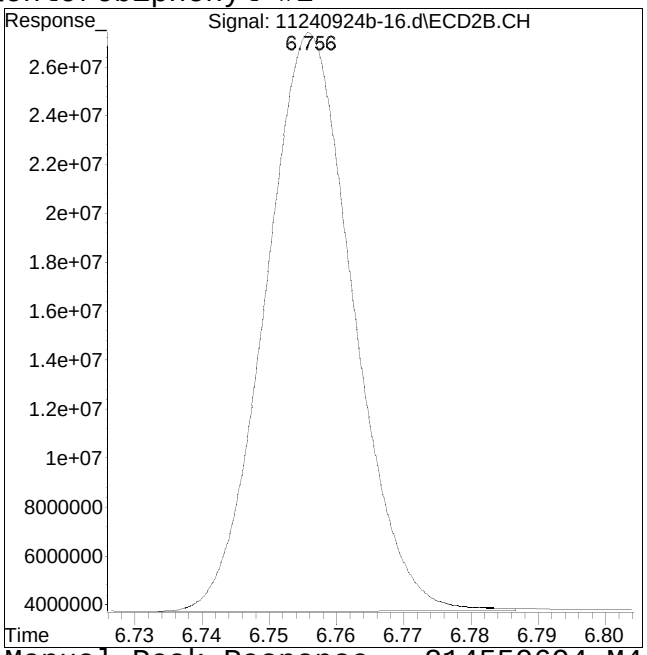
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-16.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:07 Instrument : Pest 11
Sample : L2453720-06,42,, Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 220638881



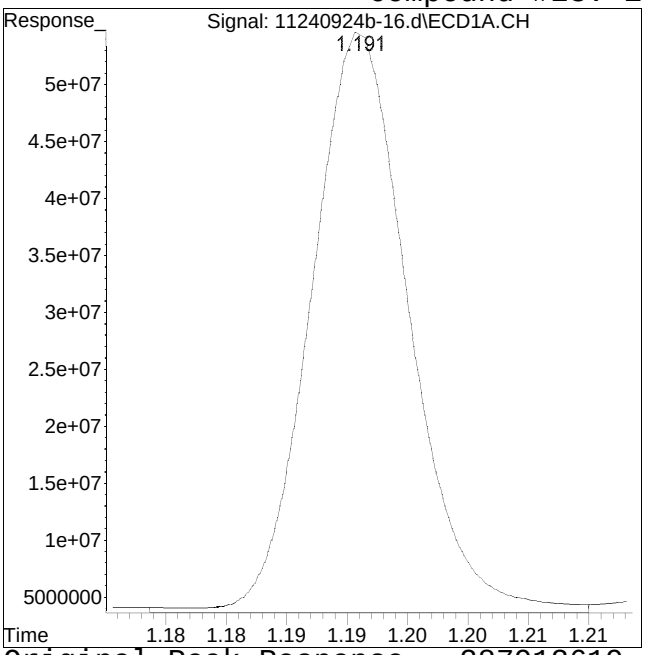
Manual Peak Response = 214550694 M4

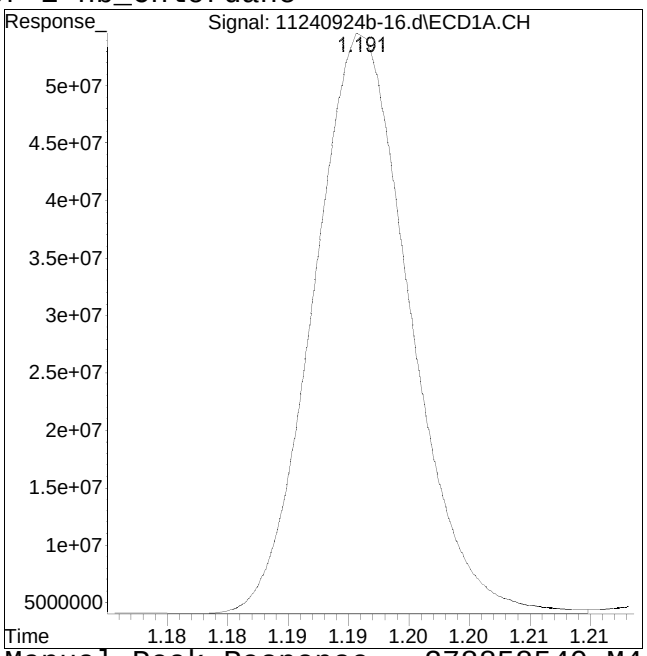
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-16.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:07 Instrument : Pest 11
Sample : L2453720-06,42,, Quant Date : 9/25/2024 2:26 pm

Compound #28: 1-br-2-nb_Chlordane



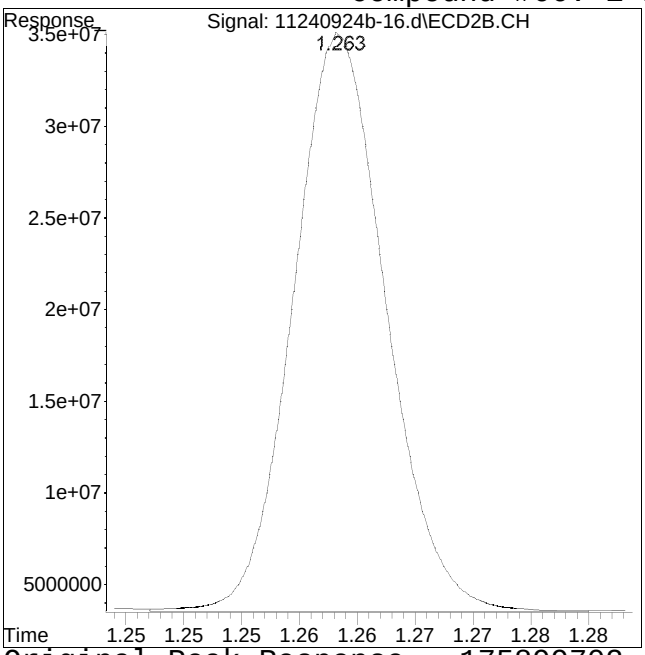


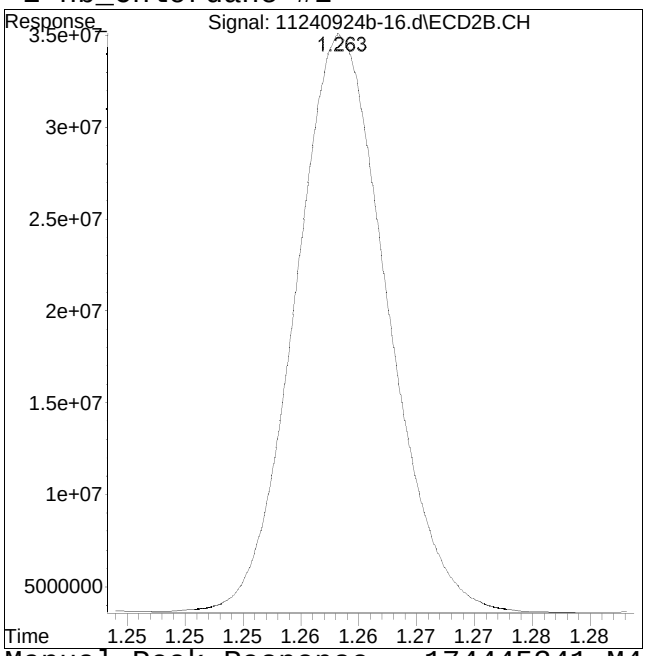
Original Peak Response = 287912619 Manual Peak Response = 278858540 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-16.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:07 Instrument : Pest 11
Sample : L2453720-06,42,, Quant Date : 9/25/2024 2:26 pm

Compound #66: 1-br-2-nb_Chlordane #2



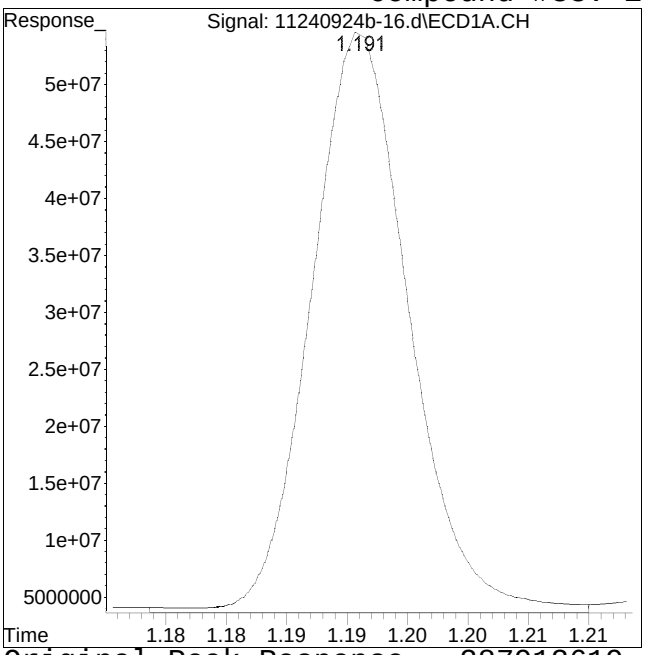


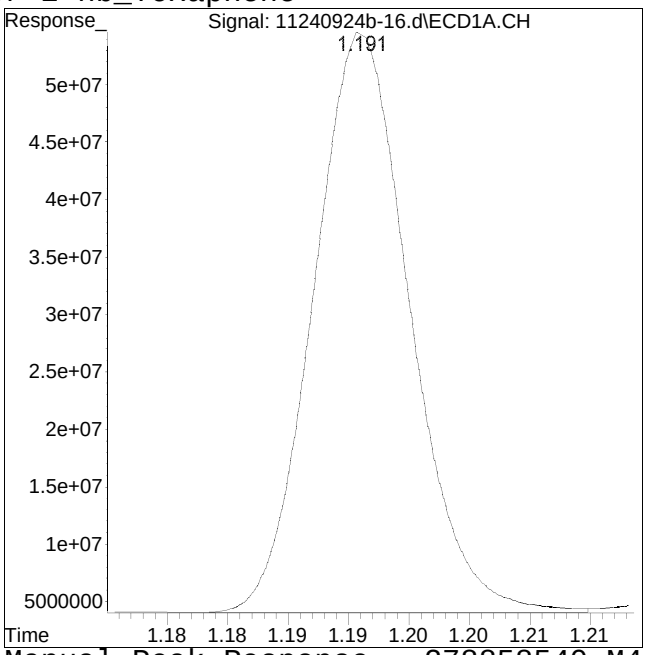
Original Peak Response = 175899702 Manual Peak Response = 174445341 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-16.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:07 Instrument : Pest 11
Sample : L2453720-06,42,, Quant Date : 9/25/2024 2:26 pm

Compound #33: 1-br-2-nb_Toxaphene



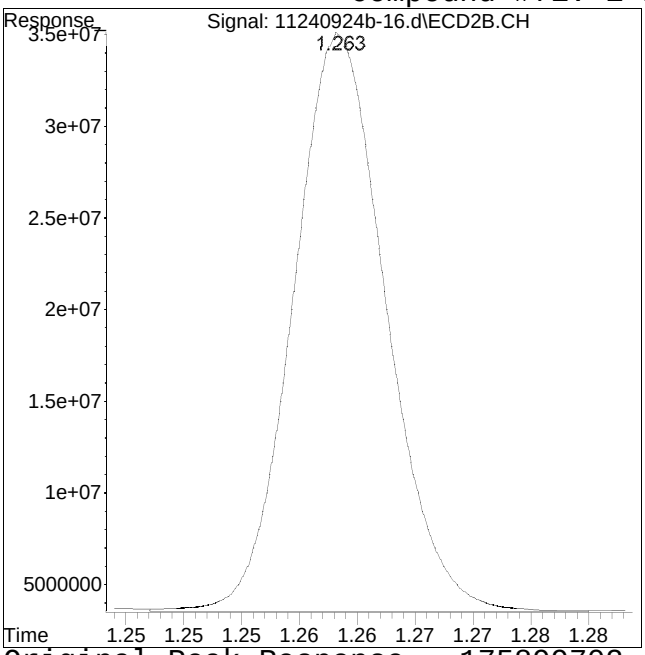


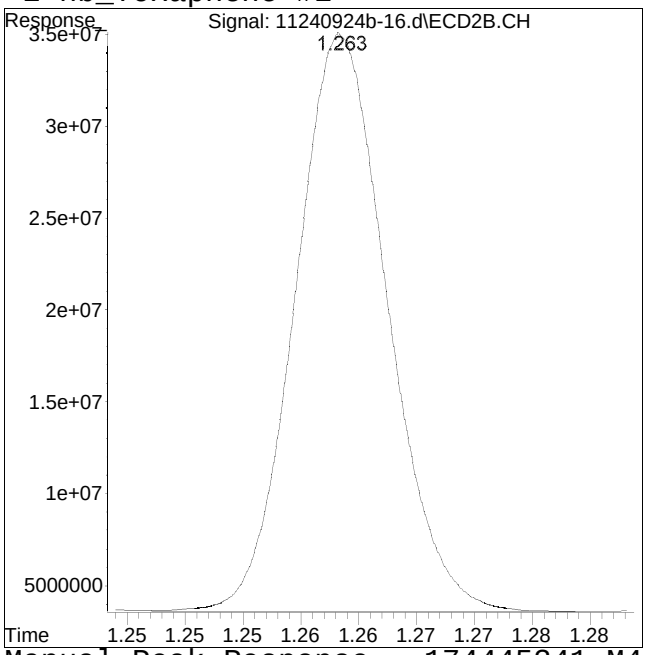
Original Peak Response = 287912619 Manual Peak Response = 278858540 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-16.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:07 Instrument : Pest 11
Sample : L2453720-06,42,, Quant Date : 9/25/2024 2:26 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 175899702 Manual Peak Response = 174445341 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:19
Operator : PEST11:jag
Sample : L2453720-07,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:53 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.192	1.264	290.8E6	184.5E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery = 100.58%		
	Standard Area 1 : #2 = 192001596				Recovery = 96.08%		
28) i	1-br-2-nb_Ch	1.192	1.264	290.8E6	184.5E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.192	1.264	290.8E6	184.5E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.519	1.711	384.1E6	236.8E6	31.785M4	28.811M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 63.57%		57.62%
27) s	Decachlorobi	6.125	6.755	411.5E6	216.9E6	30.419M4	27.732M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 60.84%		55.46%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:19
Operator : PEST11:jag
Sample : L2453720-07,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:53 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

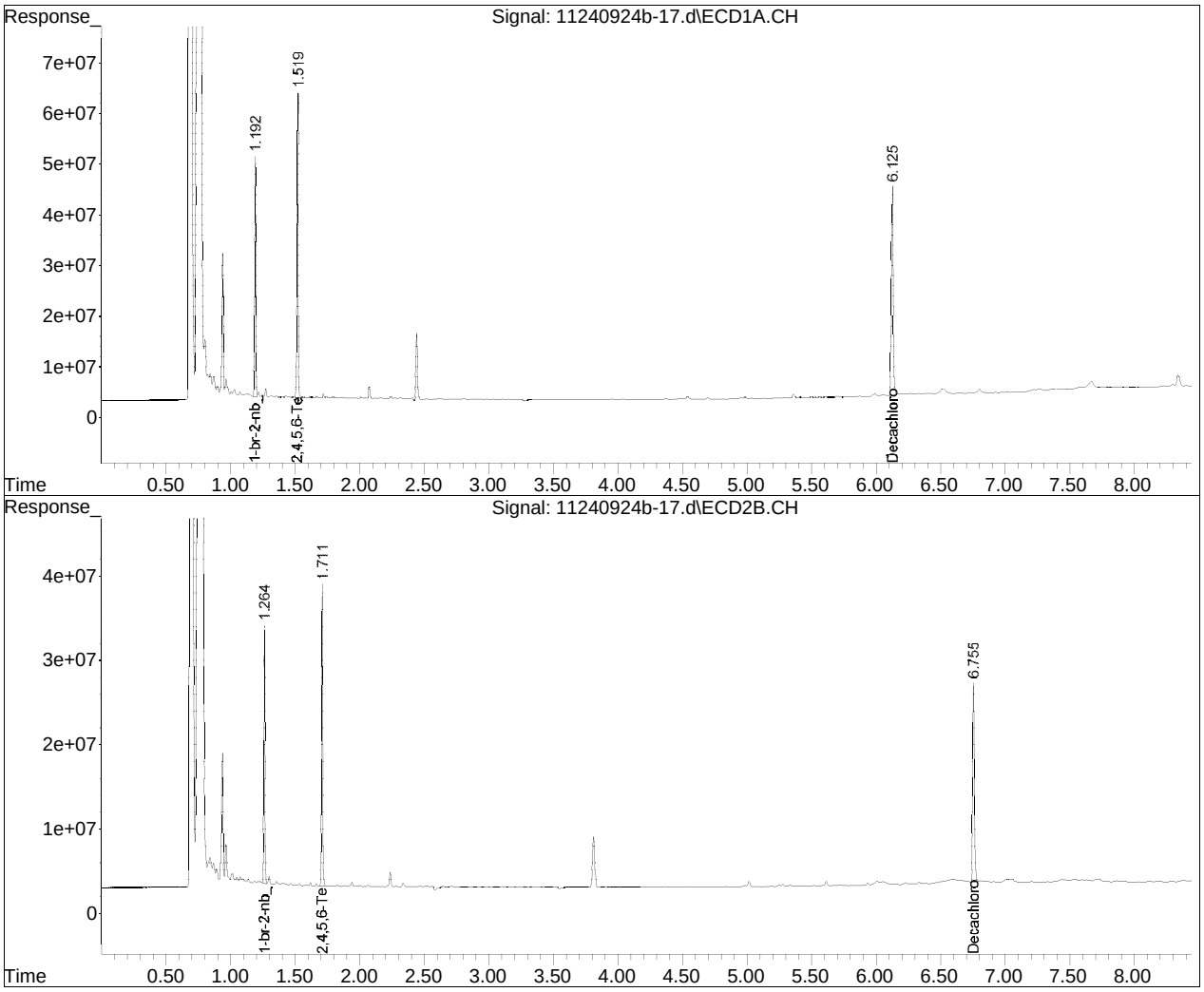
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:19
Operator : PEST11:jag
Sample : L2453720-07,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:53 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

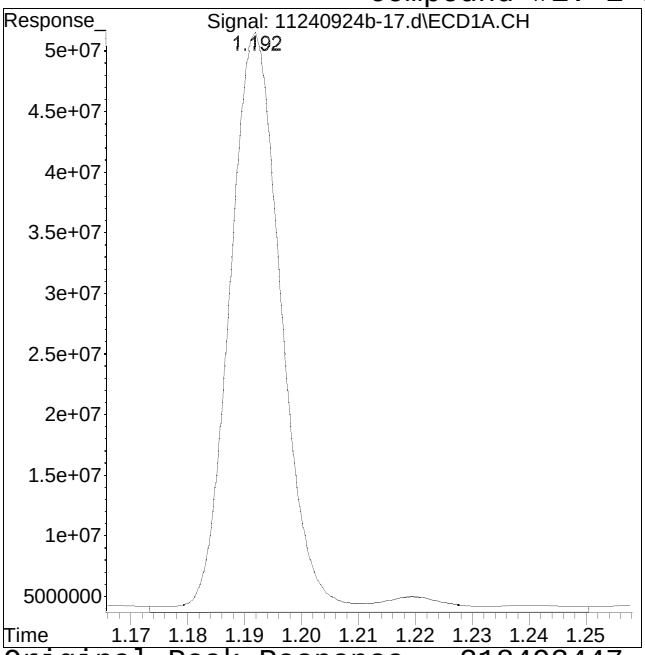
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

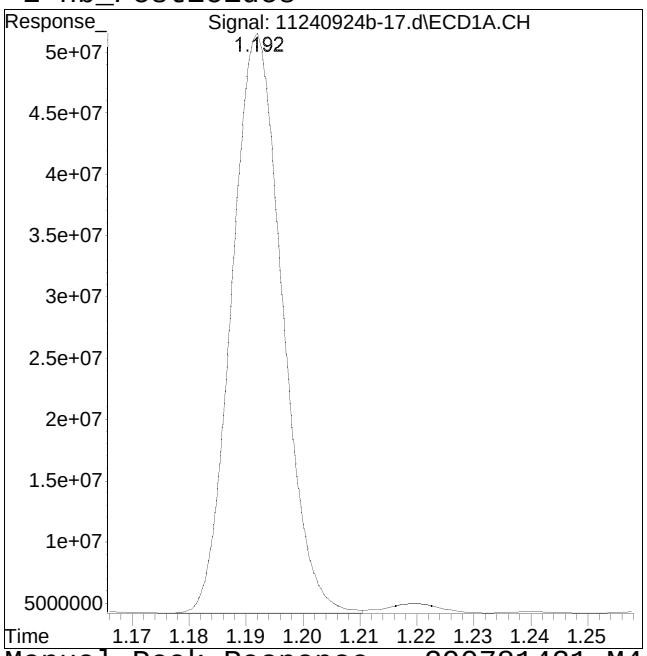


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-17.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:19 Instrument : Pest 11
Sample : L2453720-07,42,, Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



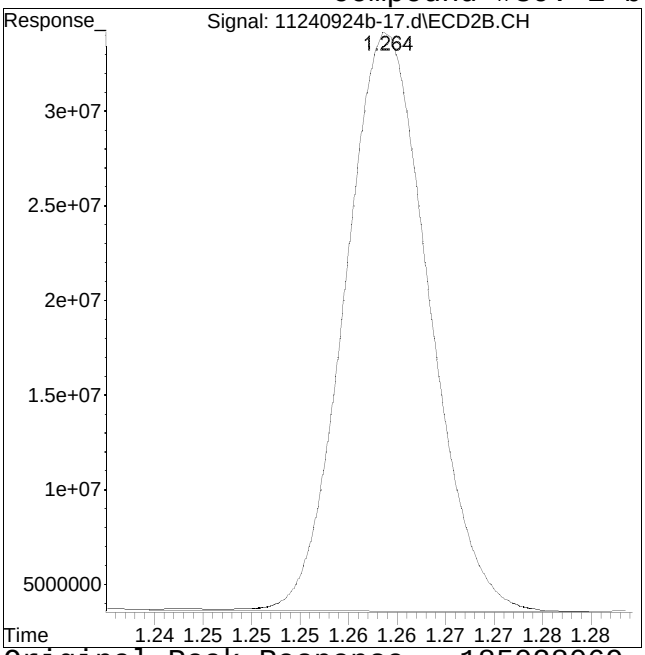


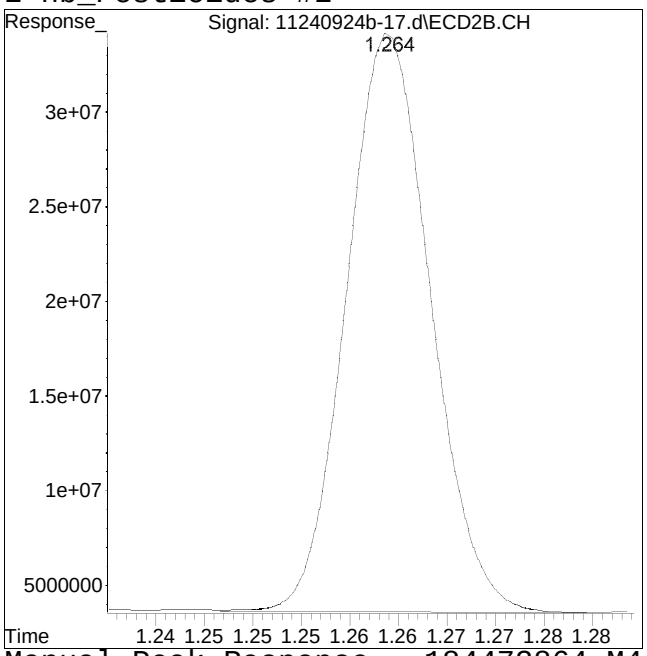
Original Peak Response = 318493447 Manual Peak Response = 290781421 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-17.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:19 Instrument : Pest 11
Sample : L2453720-07,42,, Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



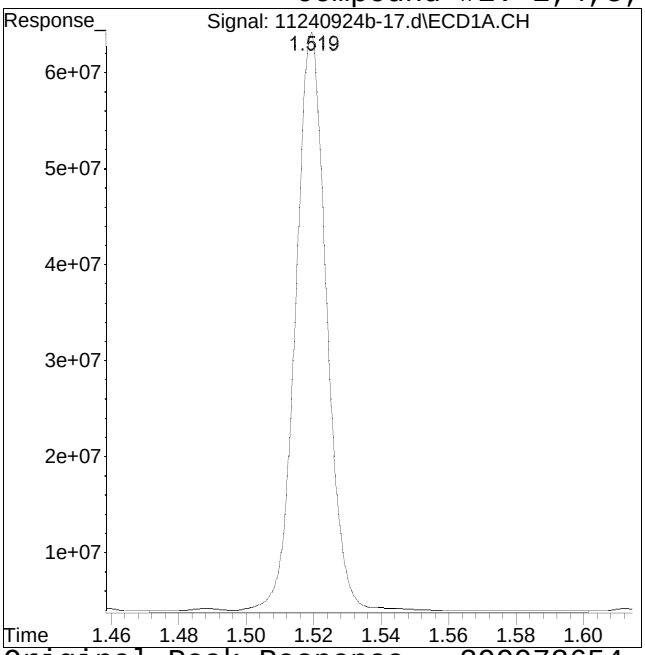


Original Peak Response = 185028069 Manual Peak Response = 184473864 M4
M4 = Poor automated baseline construction.

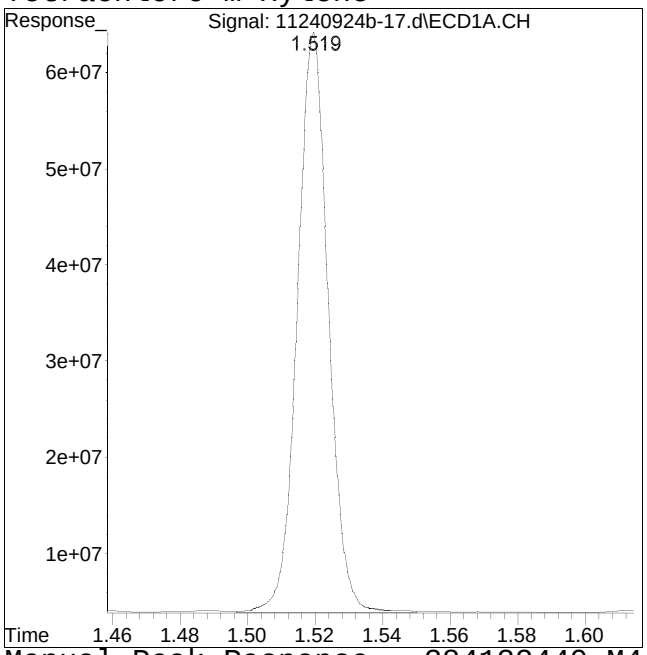
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-17.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:19 Instrument : Pest 11
Sample : L2453720-07,42,, Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 399973654



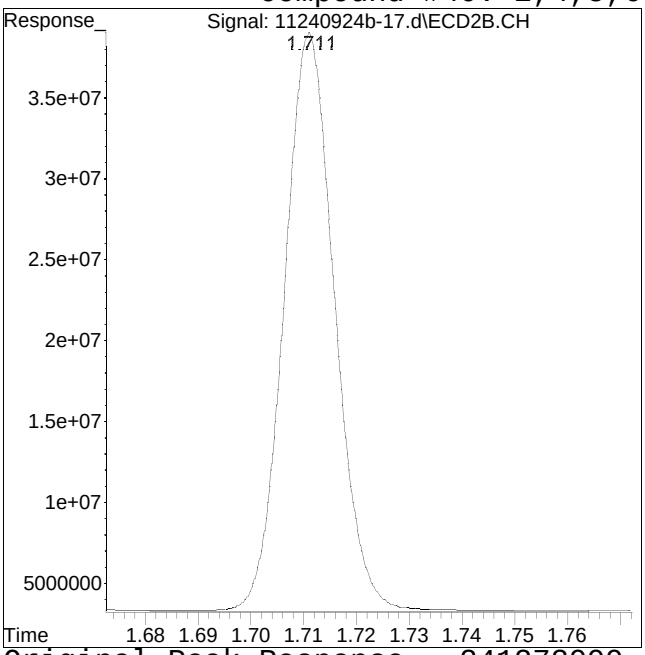
Manual Peak Response = 384132440 M4

M4 = Poor automated baseline construction.

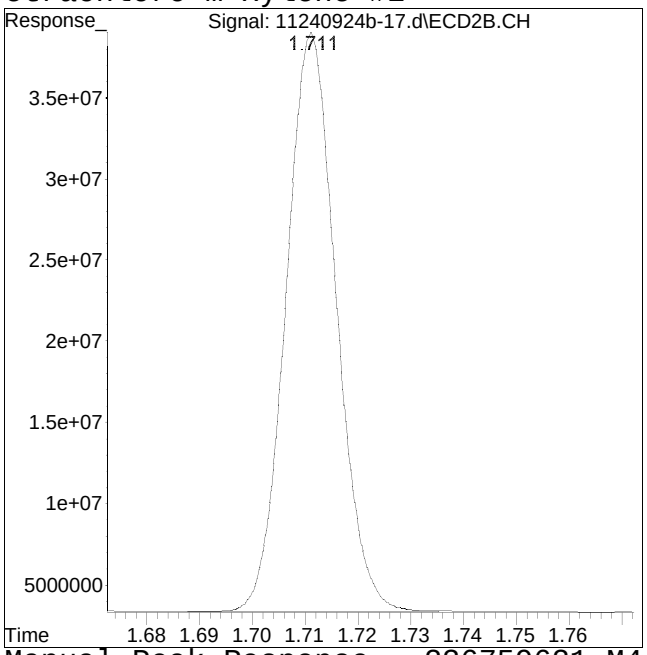
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-17.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:19 Instrument : Pest 11
Sample : L2453720-07,42,, Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 241272999



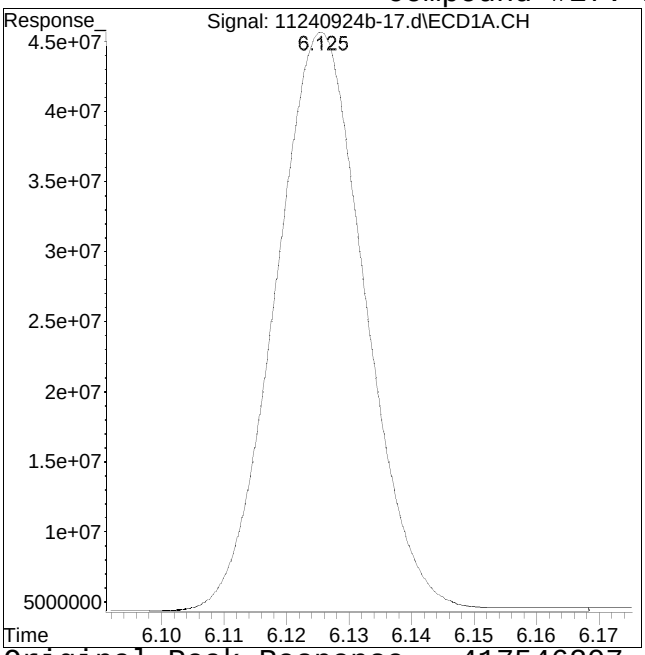
Manual Peak Response = 236759621 M4

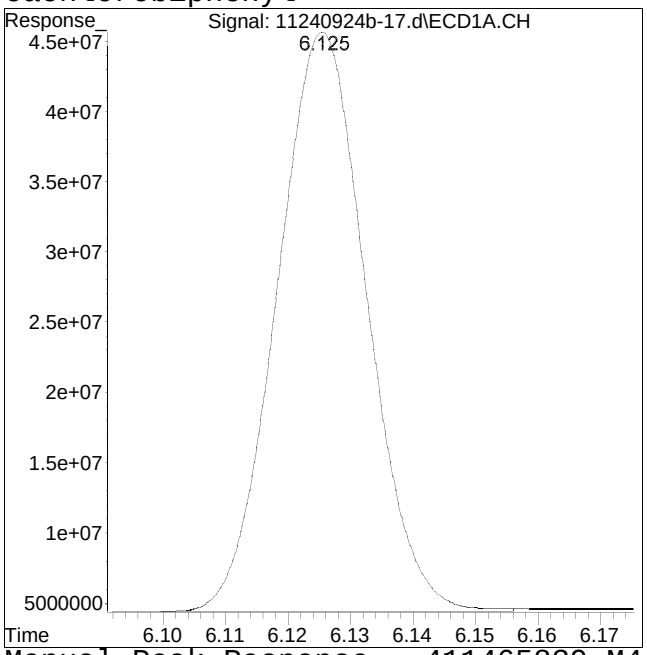
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-17.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:19 Instrument : Pest 11
Sample : L2453720-07,42,, Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



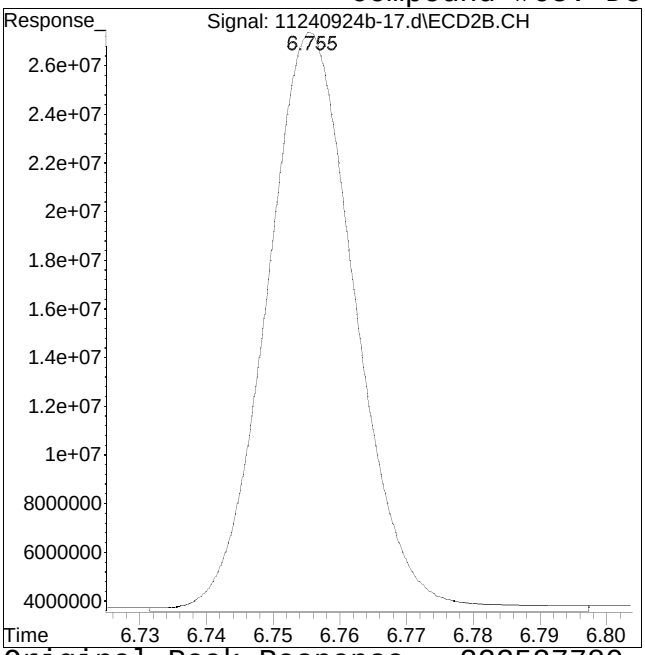


Original Peak Response = 417546207 Manual Peak Response = 411465839 M4
M4 = Poor automated baseline construction.

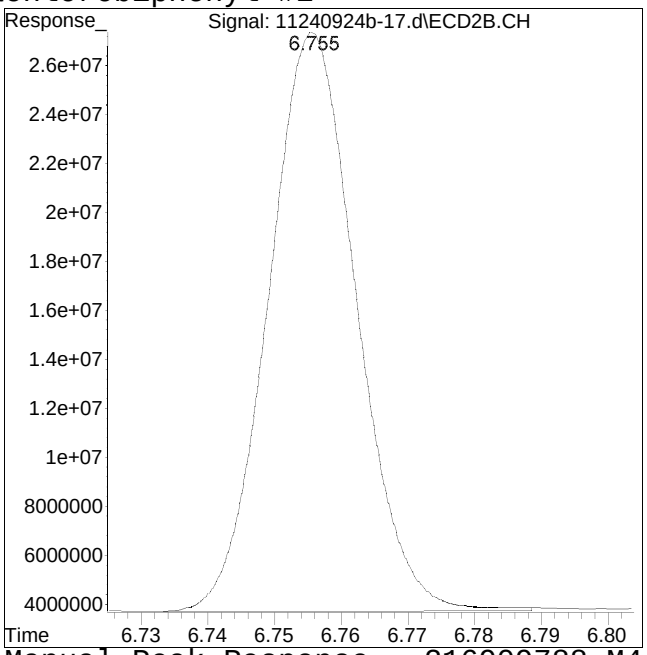
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-17.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:19 Instrument : Pest 11
Sample : L2453720-07,42,, Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 223527780



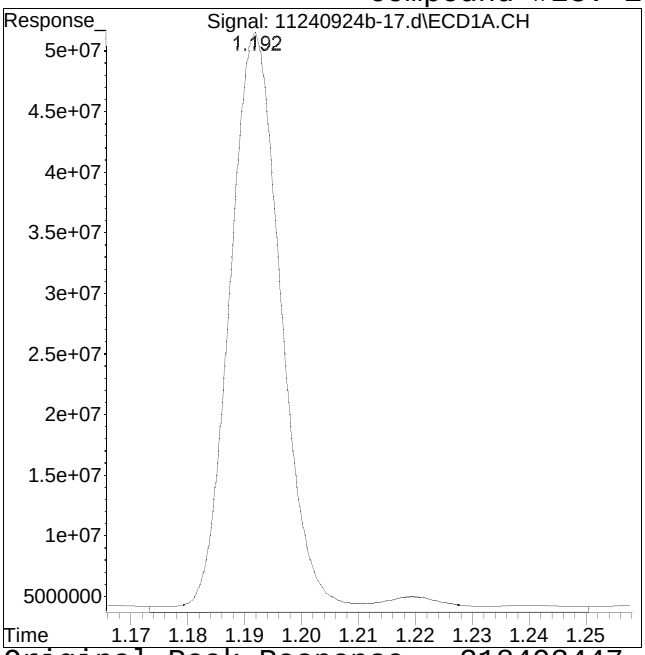
Manual Peak Response = 216909788 M4

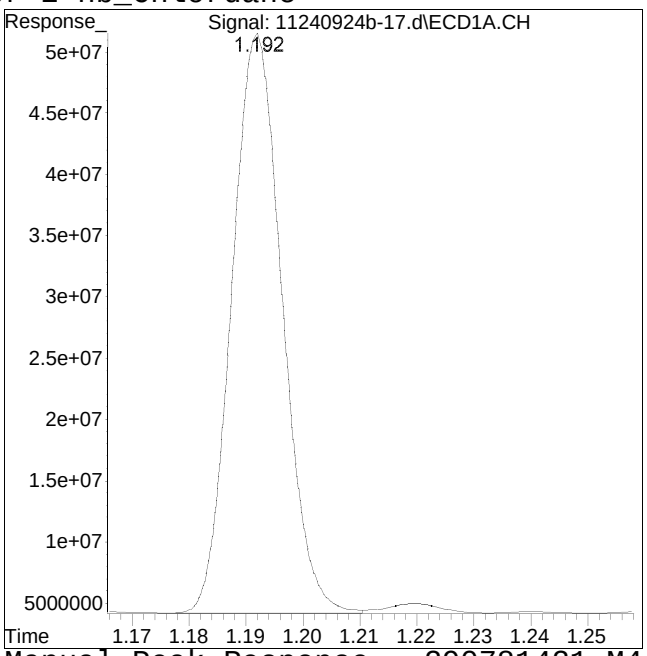
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-17.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:19 Instrument : Pest 11
Sample : L2453720-07,42,, Quant Date : 9/25/2024 2:26 pm

Compound #28: 1-br-2-nb_Chlordane



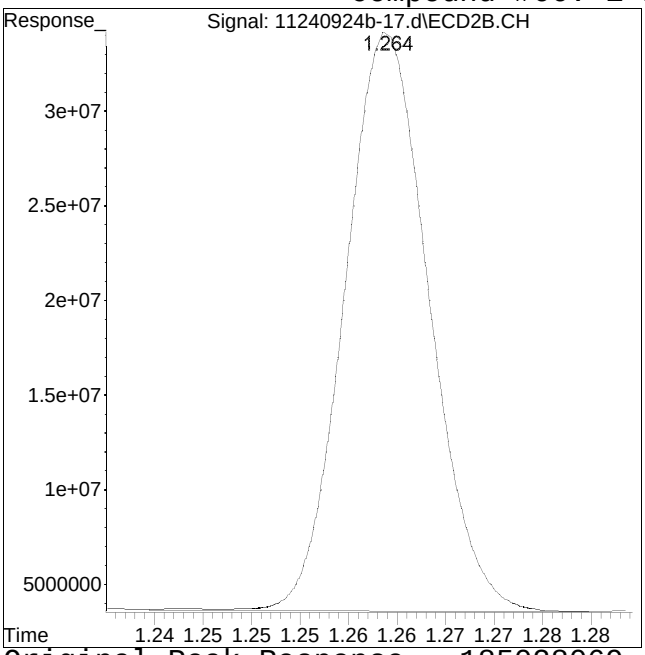


Original Peak Response = 318493447 Manual Peak Response = 290781421 M4
M4 = Poor automated baseline construction.

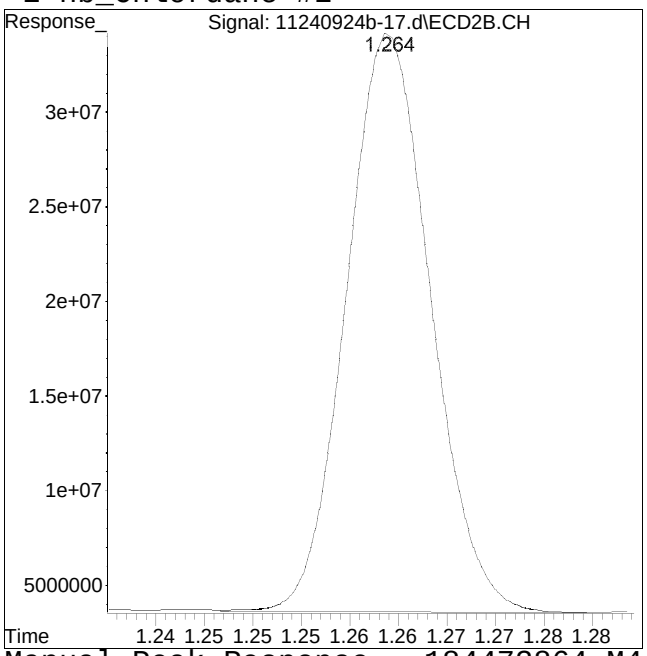
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-17.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:19 Instrument : Pest 11
Sample : L2453720-07,42,, Quant Date : 9/25/2024 2:26 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 185028069



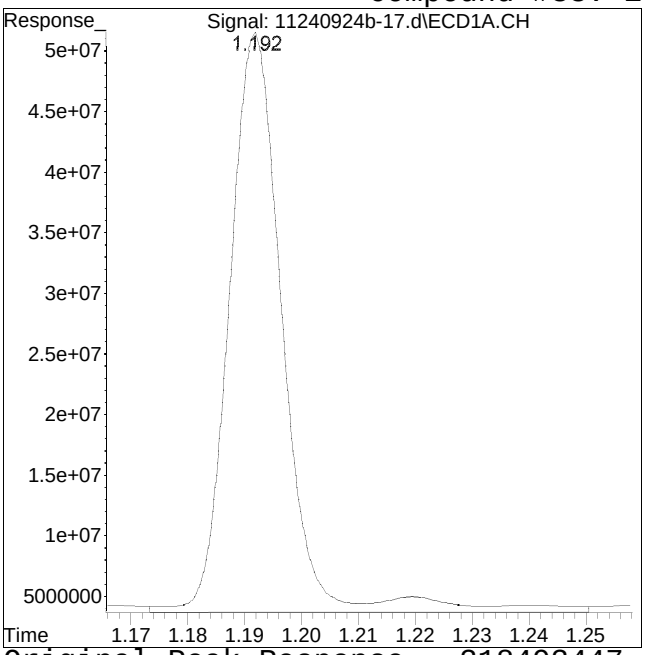
Manual Peak Response = 184473864 M4

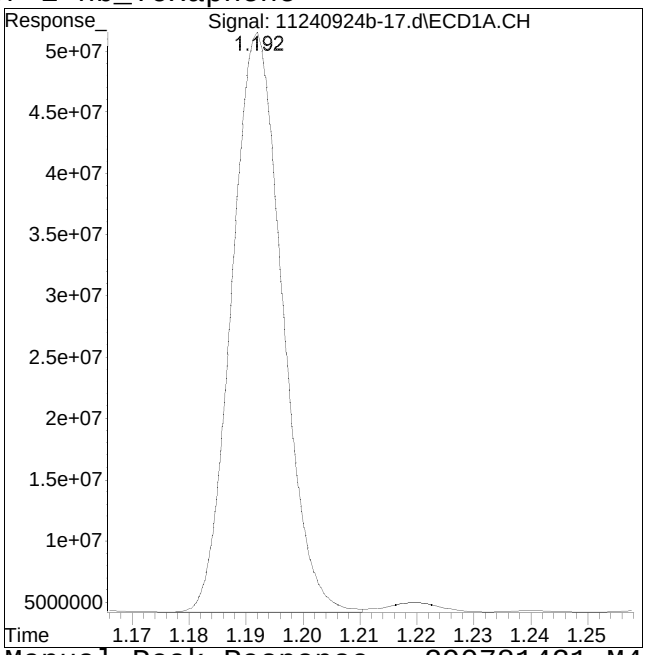
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-17.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:19 Instrument : Pest 11
Sample : L2453720-07,42,, Quant Date : 9/25/2024 2:26 pm

Compound #33: 1-br-2-nb_Toxaphene



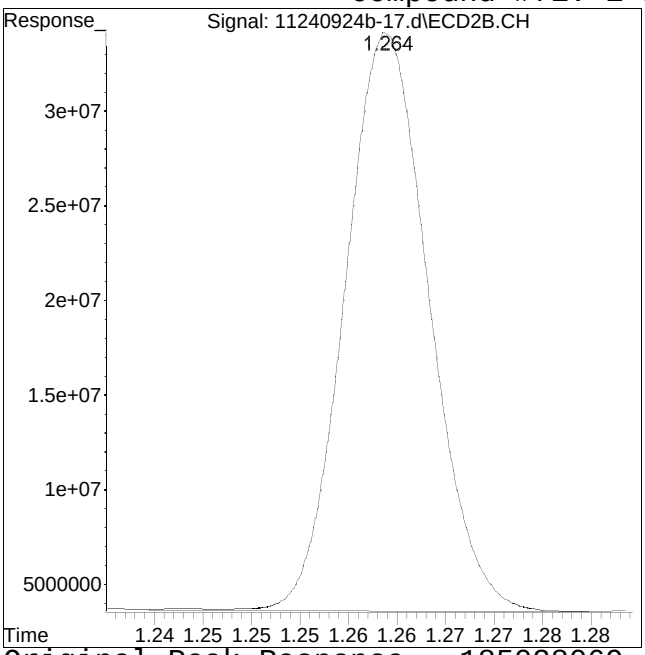


Original Peak Response = 318493447 Manual Peak Response = 290781421 M4
M4 = Poor automated baseline construction.

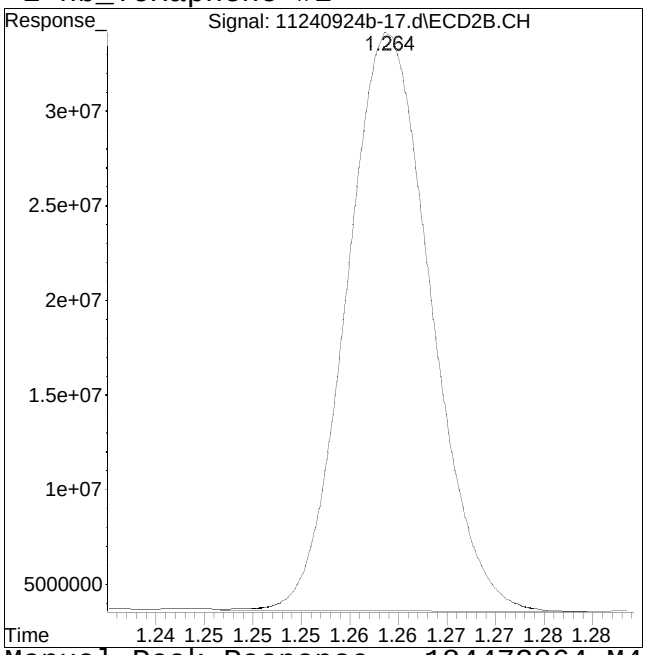
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-17.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:19 Instrument : Pest 11
Sample : L2453720-07,42,, Quant Date : 9/25/2024 2:26 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 185028069



Manual Peak Response = 184473864 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:31
Operator : PEST11:jag
Sample : L2453720-08,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:55 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.192	1.264	296.8E6	190.9E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery = 102.66%		
	Standard Area 1 : #2 = 192001596				Recovery = 99.42%		
28) i	1-br-2-nb_Ch	1.192	1.264	296.8E6	190.9E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.192	1.264	296.8E6	190.9E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.519	1.711	450.1E6	279.0E6	36.486M4	32.812M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 72.97%		65.62%
27) s	Decachlorobi	6.125	6.756	508.7E6	269.4E6	36.846M4	33.280M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 73.69%		66.56%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:31
Operator : PEST11:jag
Sample : L2453720-08,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:55 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

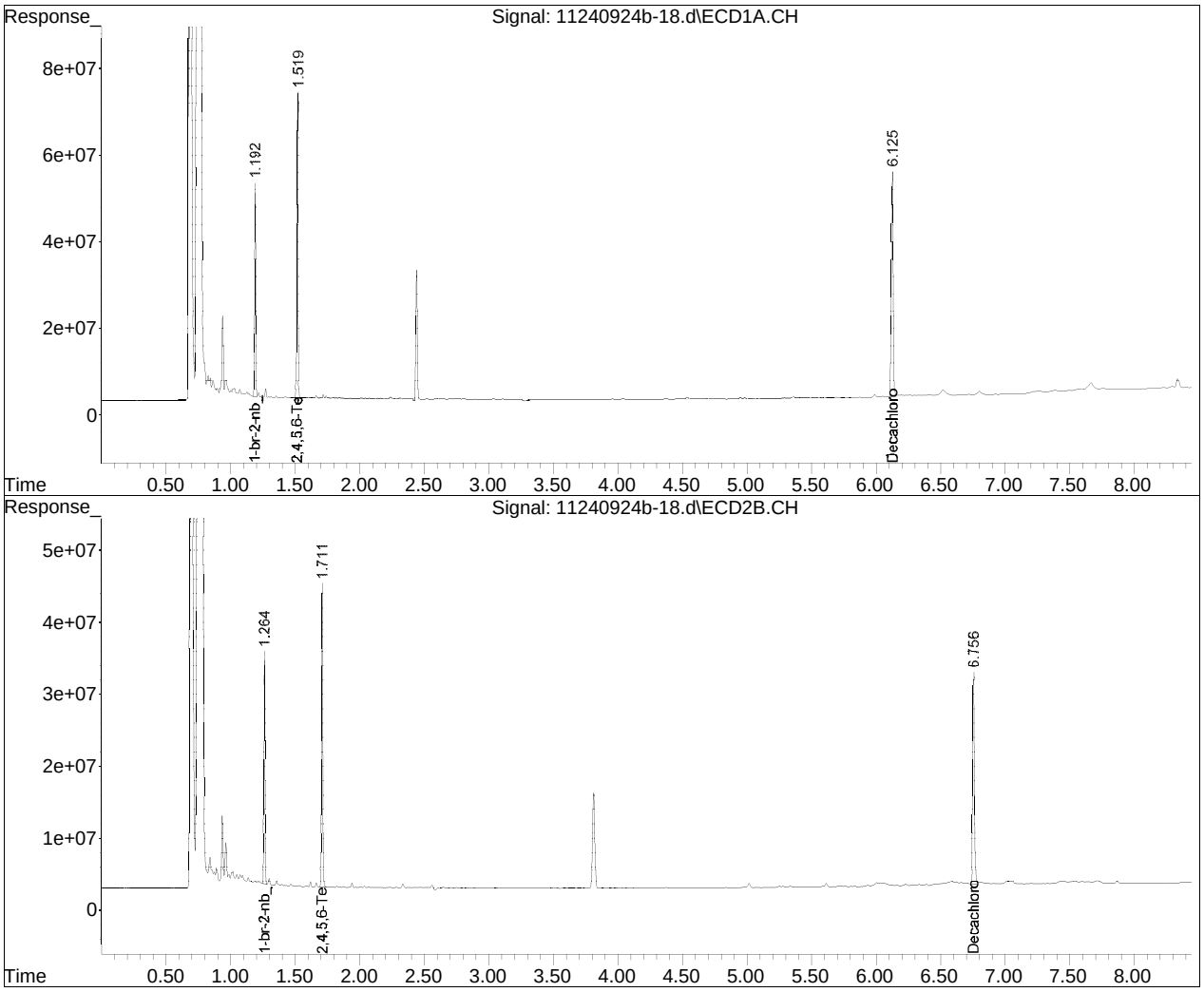
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:31
Operator : PEST11:jag
Sample : L2453720-08,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:55 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

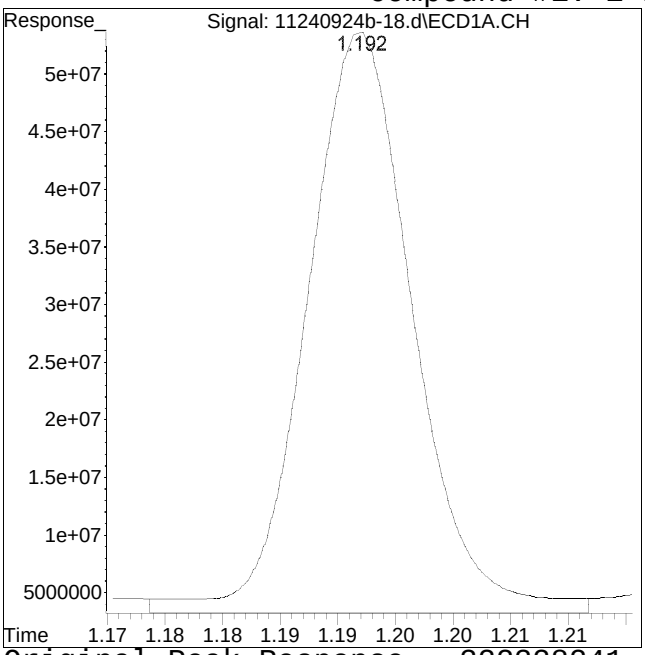
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

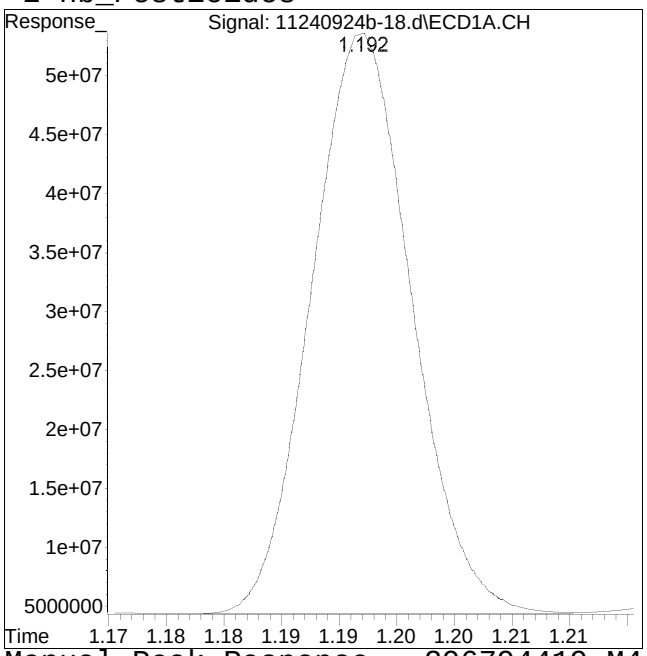


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-18.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:31 Instrument : Pest 11
Sample : L2453720-08,42,, Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



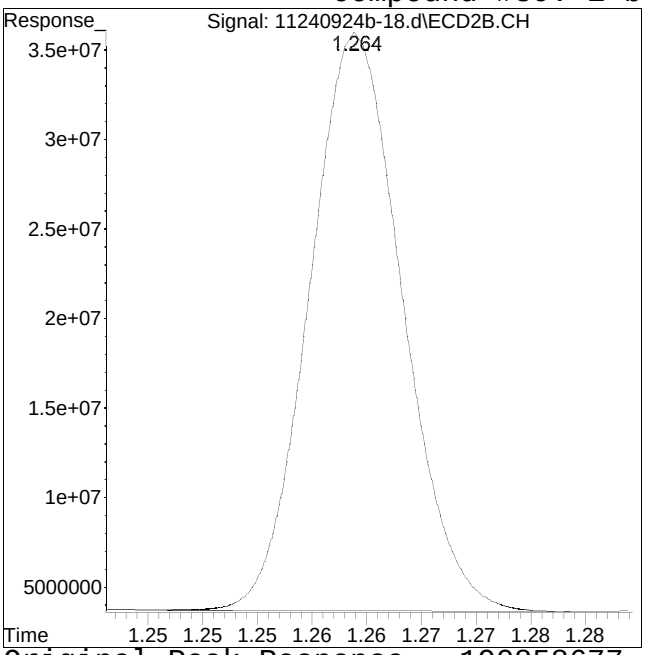


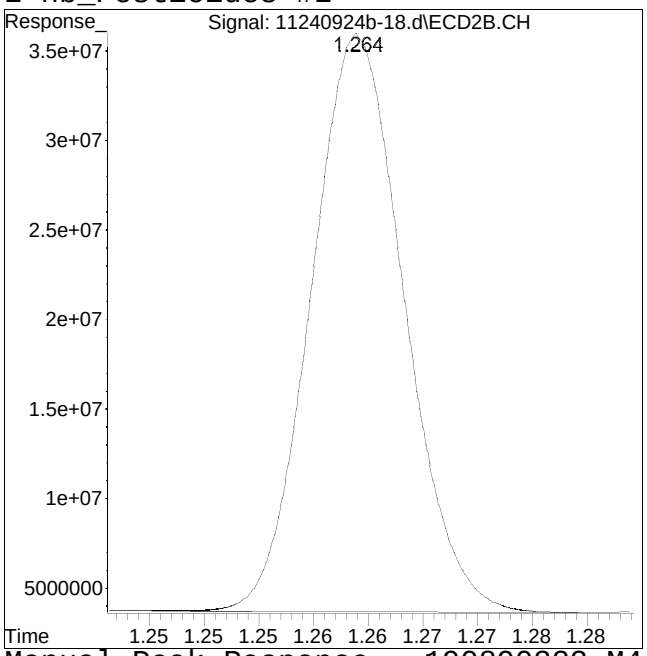
Original Peak Response = 322328241 Manual Peak Response = 296794419 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-18.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:31 Instrument : Pest 11
Sample : L2453720-08,42,, Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



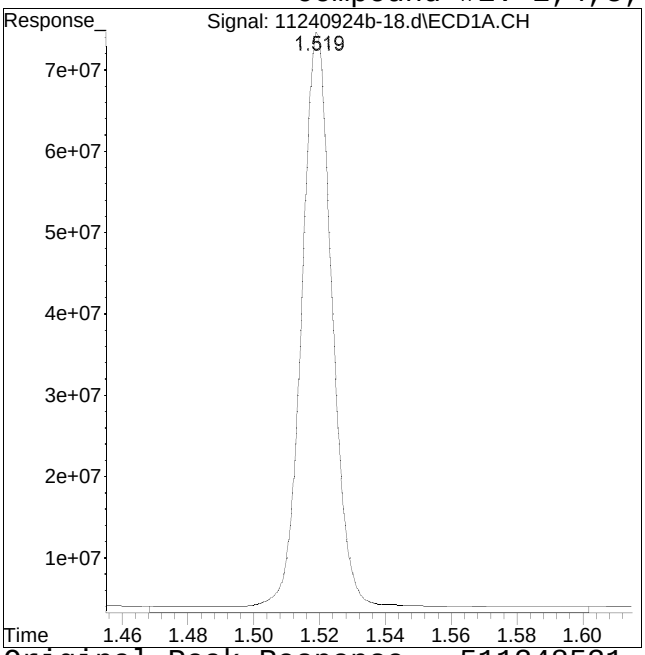


Original Peak Response = 190858677 Manual Peak Response = 190890322 M4
M4 = Poor automated baseline construction.

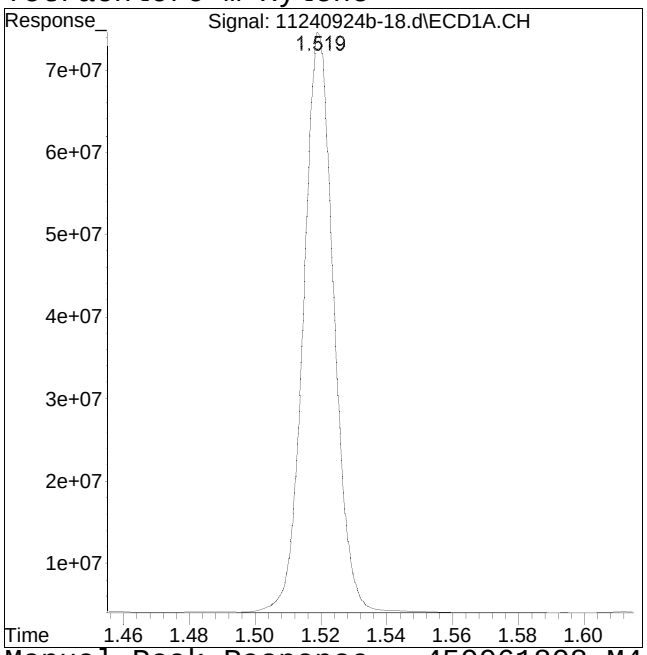
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-18.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:31 Instrument : Pest 11
Sample : L2453720-08,42,, Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 511348531



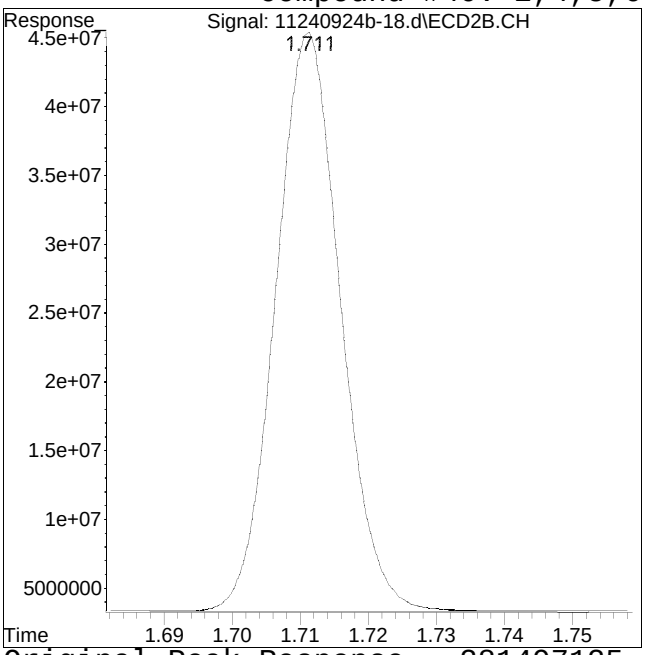
Manual Peak Response = 450061808 M4

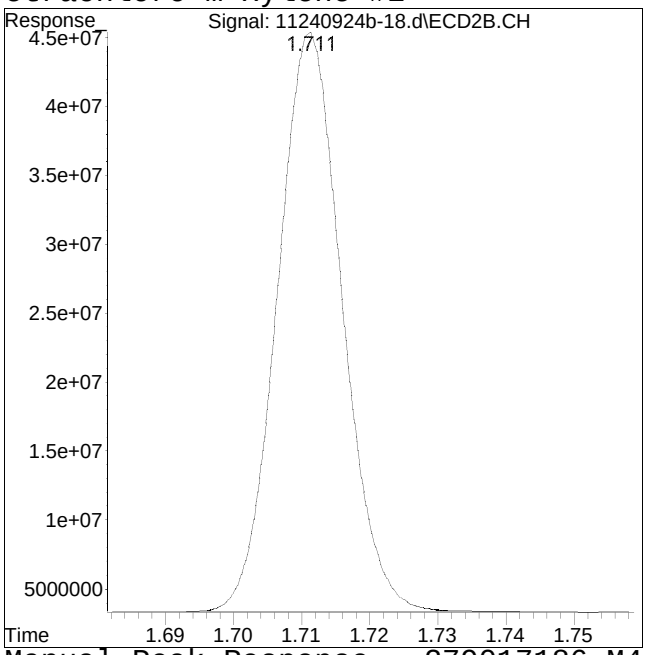
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-18.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:31 Instrument : Pest 11
Sample : L2453720-08,42,, Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



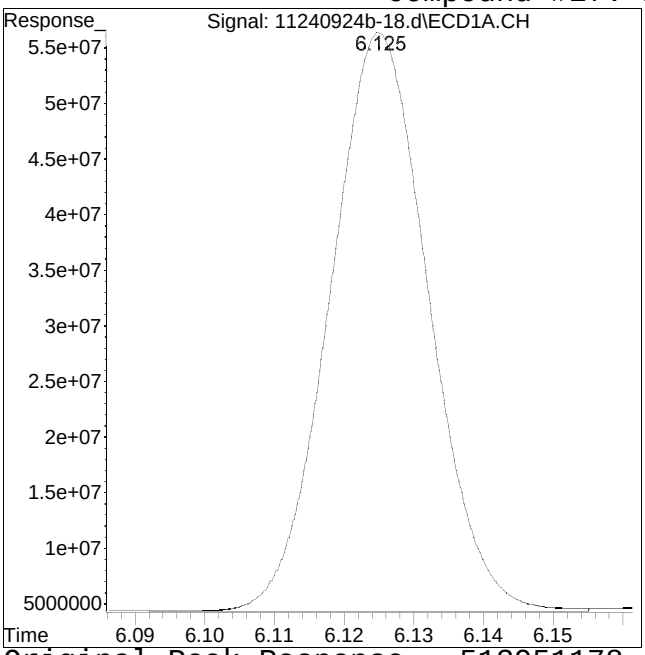


Original Peak Response = 281497125 Manual Peak Response = 279017186 M4
M4 = Poor automated baseline construction.

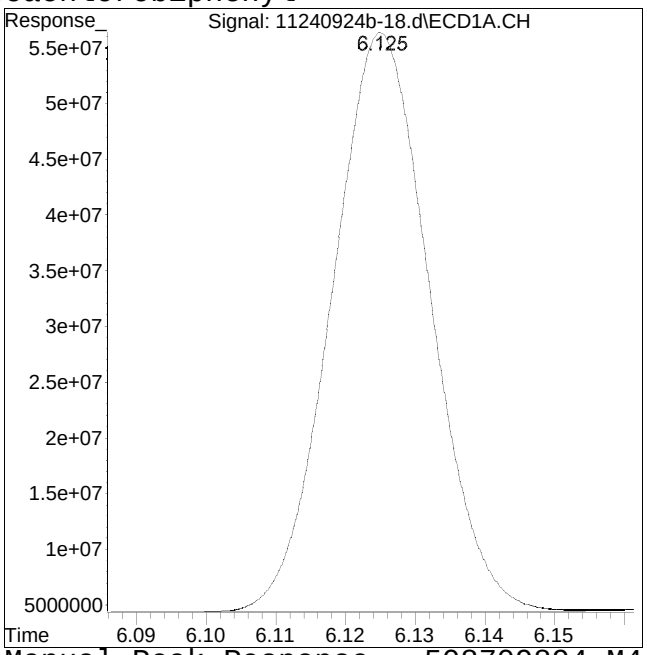
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-18.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:31 Instrument : Pest 11
Sample : L2453720-08,42,, Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 513951178



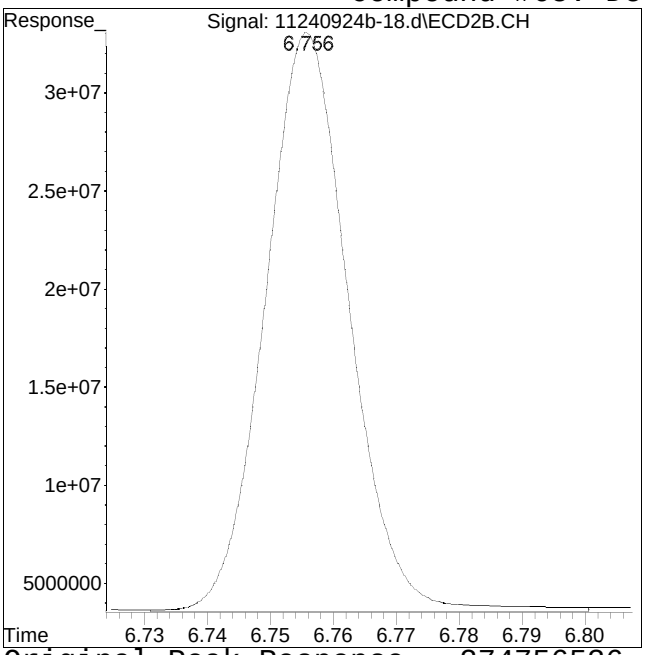
Manual Peak Response = 508709894 M4

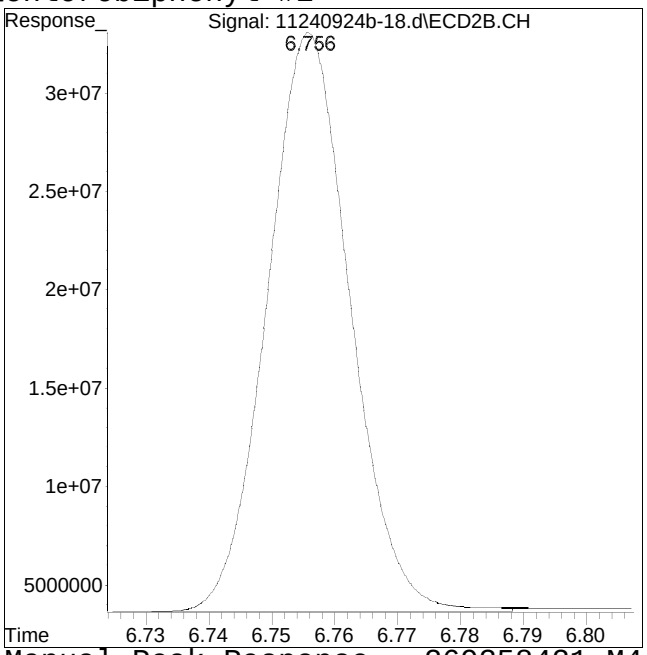
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-18.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:31 Instrument : Pest 11
Sample : L2453720-08,42,, Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2



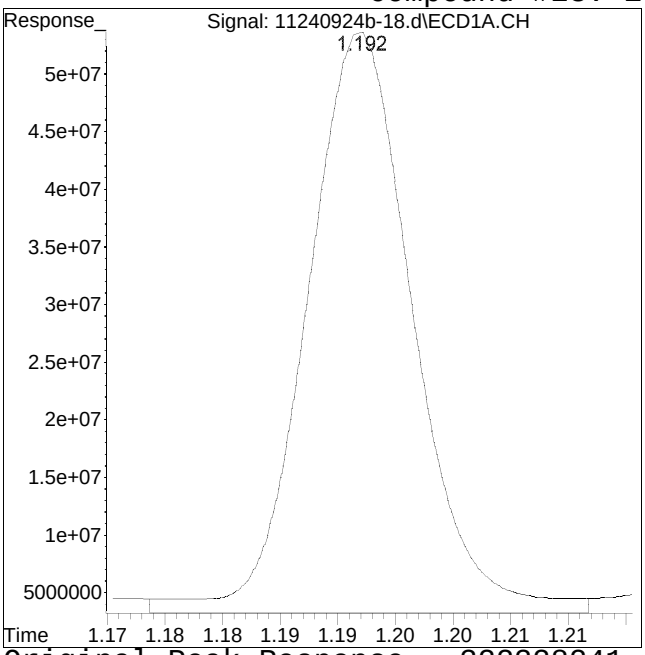


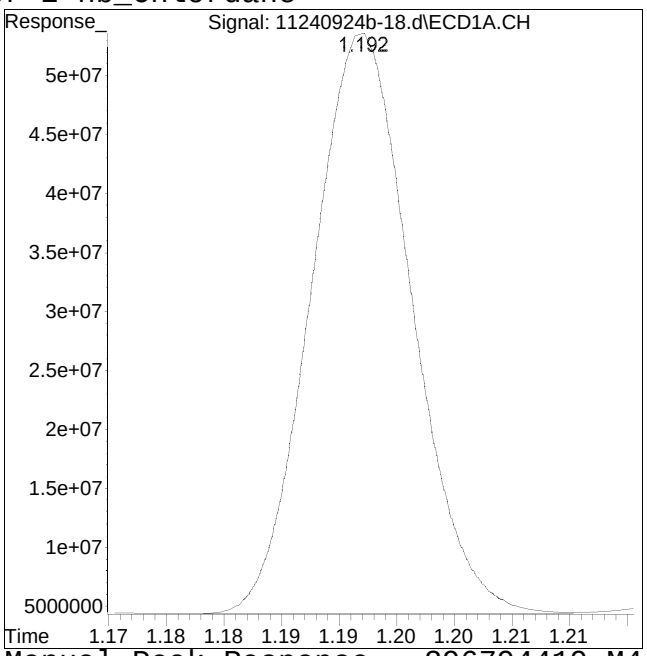
Original Peak Response = 274756536 Manual Peak Response = 269358421 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-18.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:31 Instrument : Pest 11
Sample : L2453720-08,42,, Quant Date : 9/25/2024 2:26 pm

Compound #28: 1-br-2-nb_Chlordane



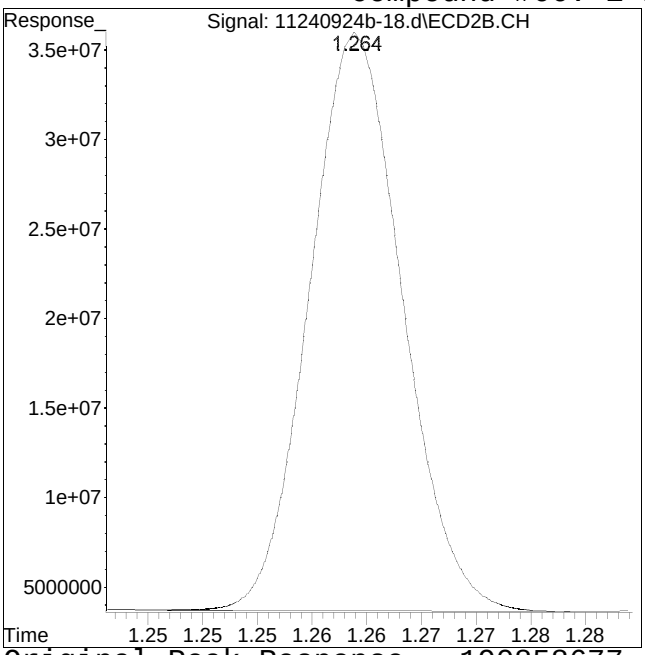


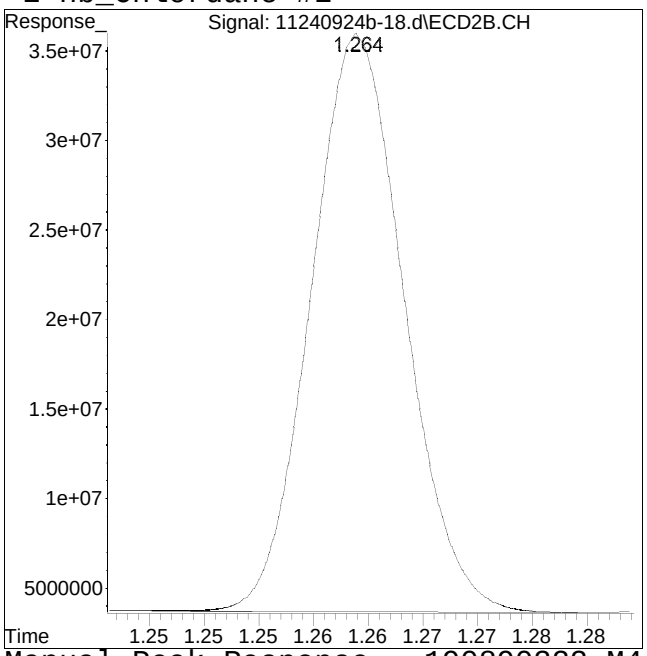
Original Peak Response = 322328241 Manual Peak Response = 296794419 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-18.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:31 Instrument : Pest 11
Sample : L2453720-08,42,, Quant Date : 9/25/2024 2:26 pm

Compound #66: 1-br-2-nb_Chlordane #2



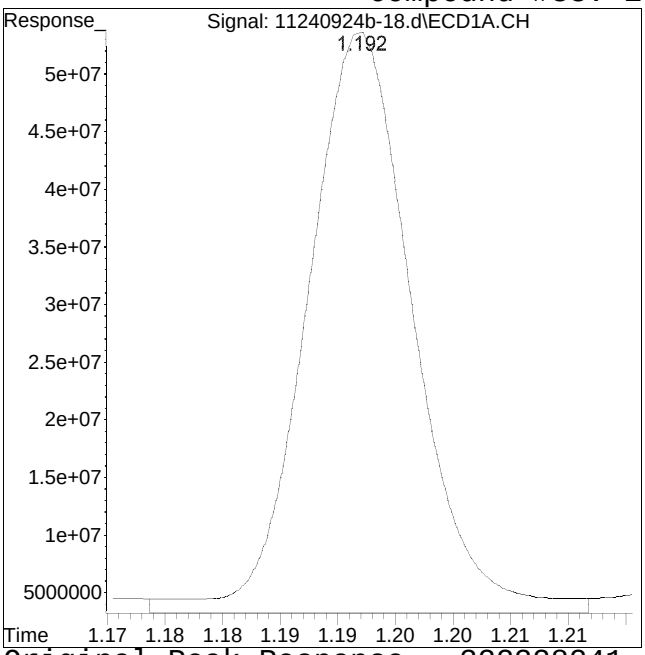


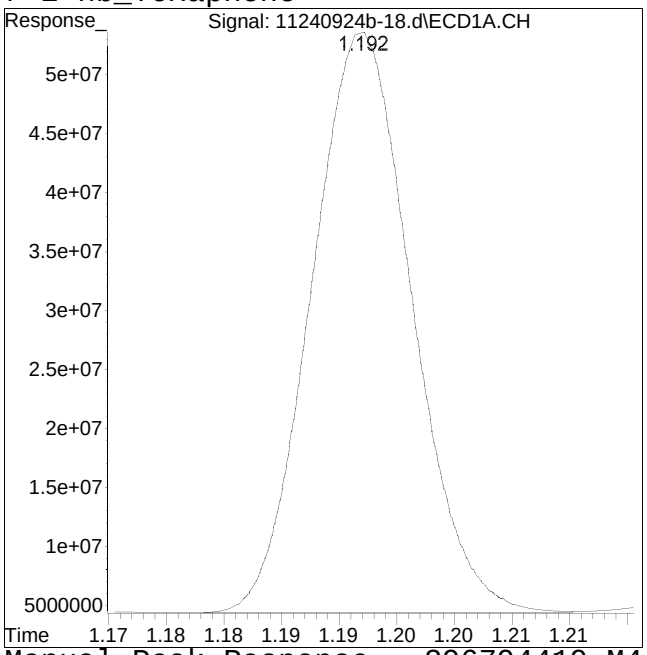
Original Peak Response = 190858677 Manual Peak Response = 190890322 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-18.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:31 Instrument : Pest 11
Sample : L2453720-08,42,, Quant Date : 9/25/2024 2:26 pm

Compound #33: 1-br-2-nb_Toxaphene



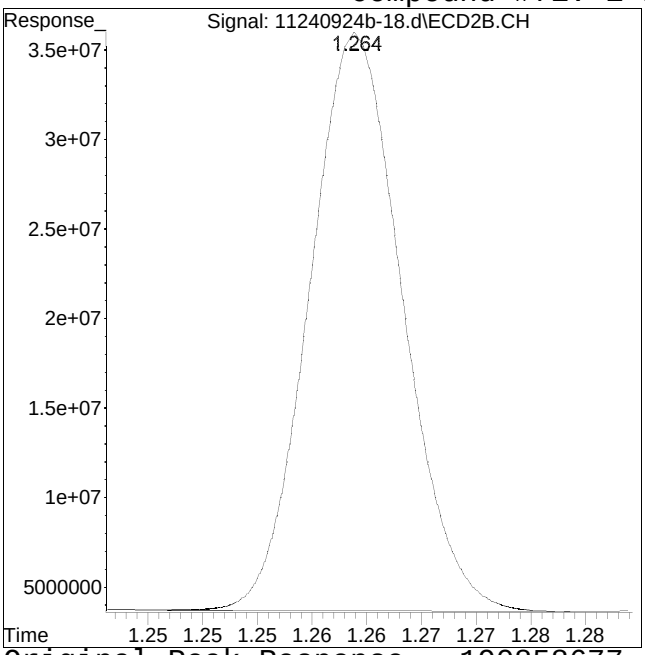


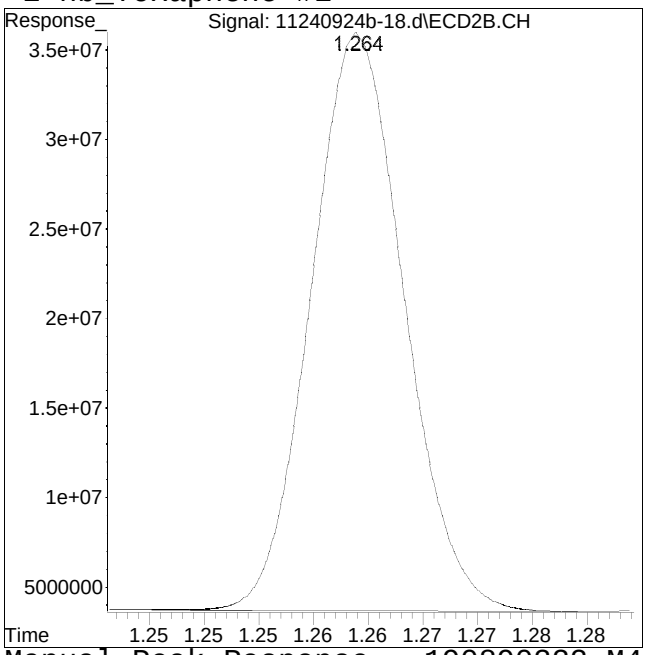
Original Peak Response = 322328241 Manual Peak Response = 296794419 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-18.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:31 Instrument : Pest 11
Sample : L2453720-08,42,, Quant Date : 9/25/2024 2:26 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 190858677 Manual Peak Response = 190890322 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:43
Operator : PEST11:jag
Sample : L2453720-09,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:58 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.191	1.263	300.4E6	192.1E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery = 103.91%		
	Standard Area 1 : #2 = 192001596				Recovery = 100.06%		
28) i	1-br-2-nb_Ch	1.191	1.263	300.4E6	192.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.191	1.263	300.4E6	192.1E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.519	1.711	397.9E6	247.3E6	31.865M4	28.900M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 63.73%		57.80%
27) s	Decachlorobi	6.125	6.756	459.0E6	244.0E6	32.844M4	29.951M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 65.69%		59.90%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:43
Operator : PEST11:jag
Sample : L2453720-09,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:58 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

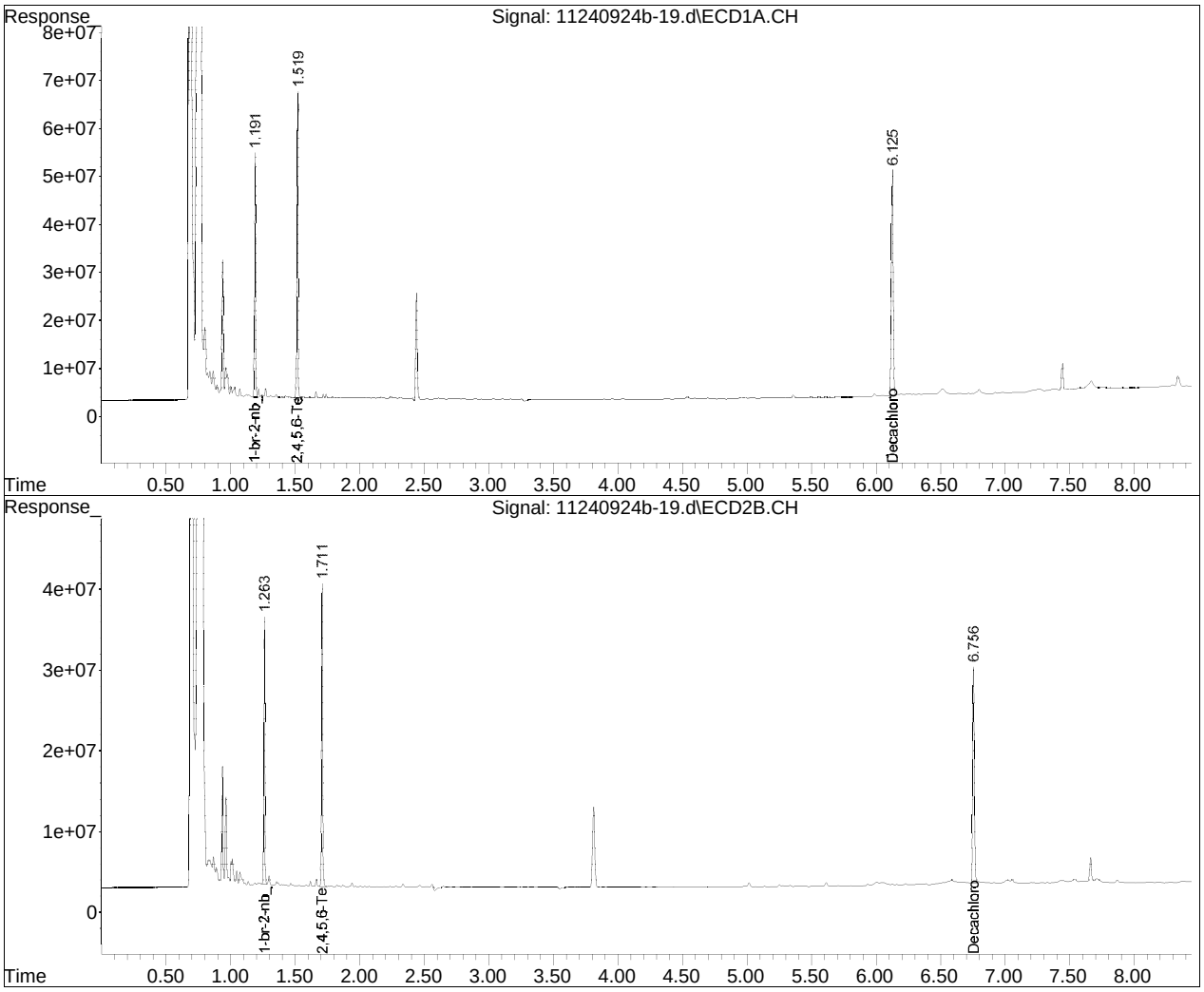
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Sep 2024 00:43
Operator : PEST11:jag
Sample : L2453720-09,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:58 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

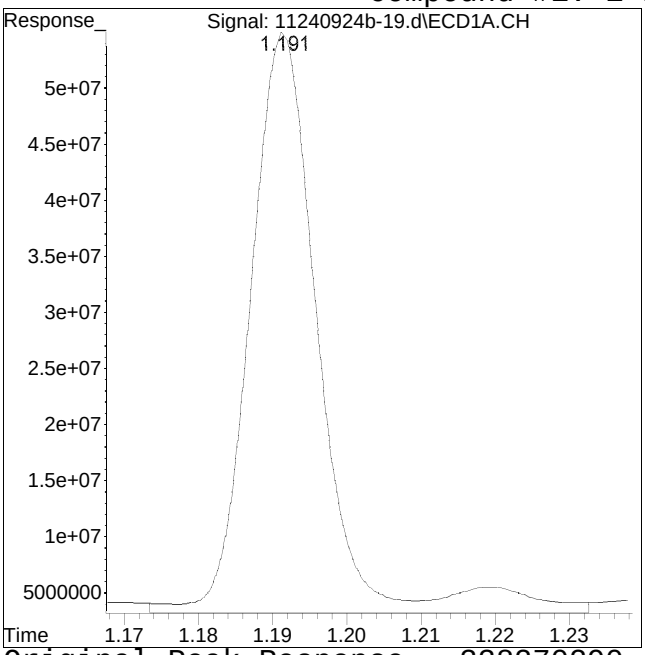
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

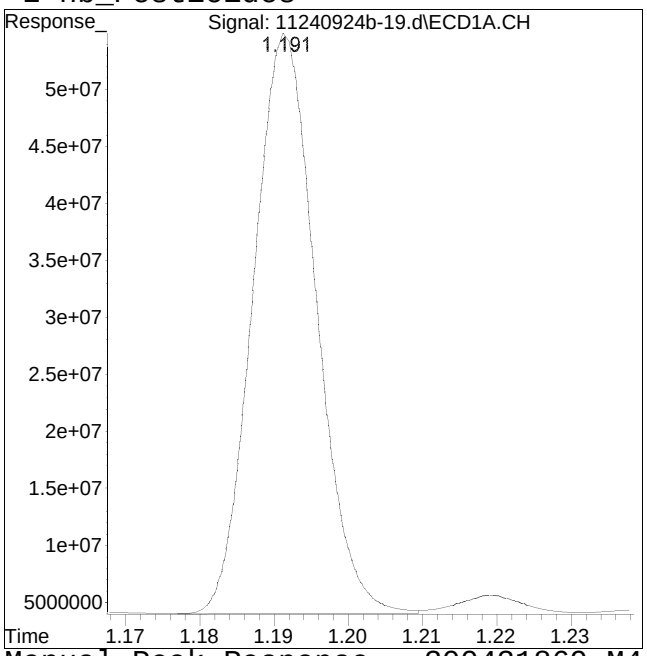


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-19.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:43 Instrument : Pest 11
Sample : L2453720-09,42,, Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



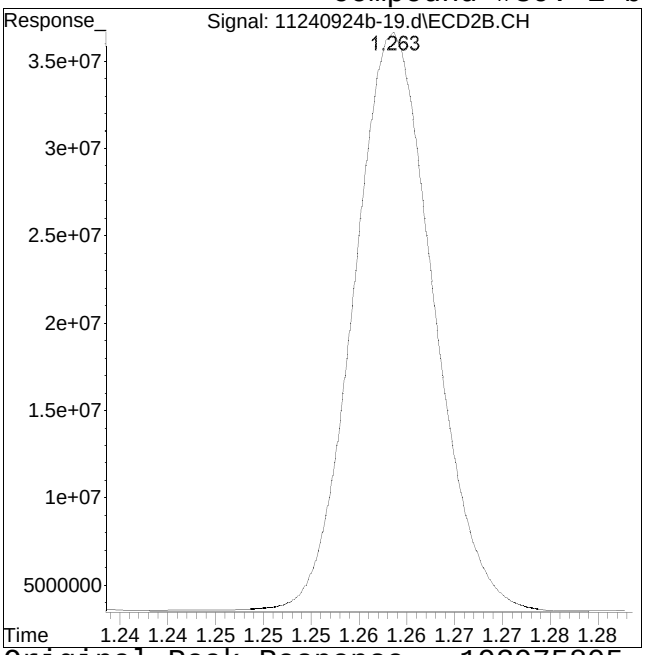


Original Peak Response = 338270290 Manual Peak Response = 300431869 M4
M4 = Poor automated baseline construction.

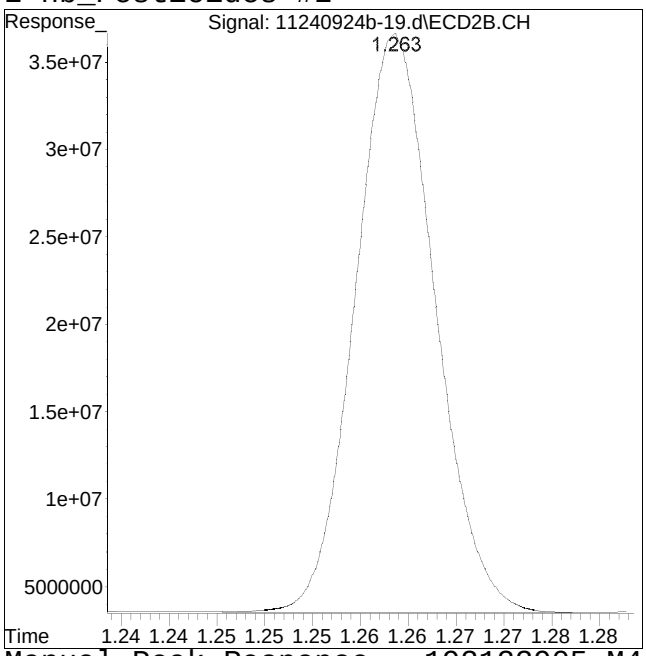
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-19.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:43 Instrument : Pest 11
Sample : L2453720-09,42,, Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 193975805



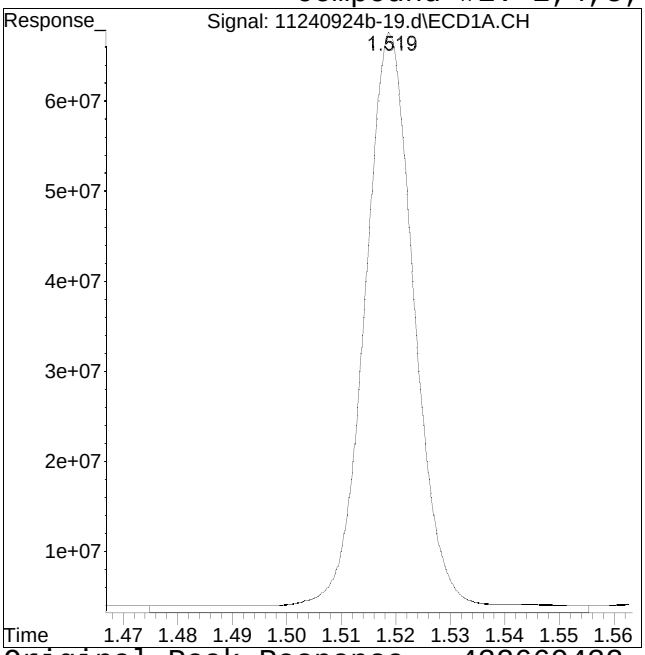
Manual Peak Response = 192123905 M4

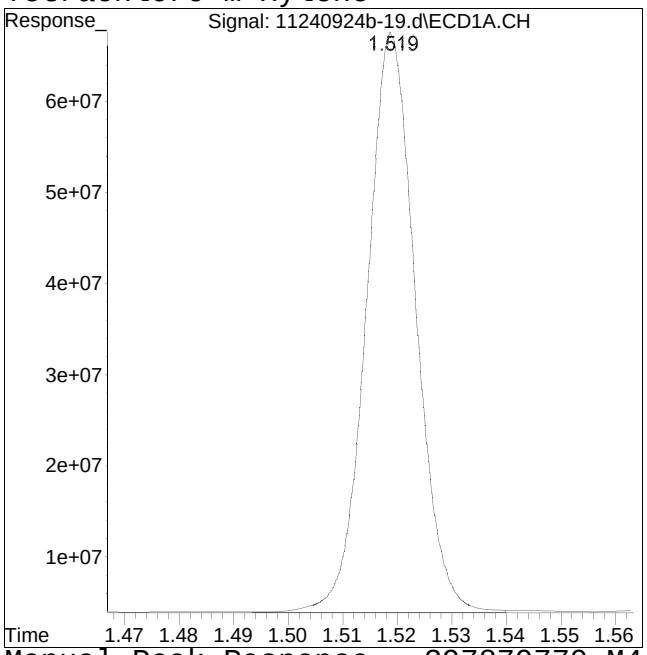
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-19.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:43 Instrument : Pest 11
Sample : L2453720-09,42,, Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



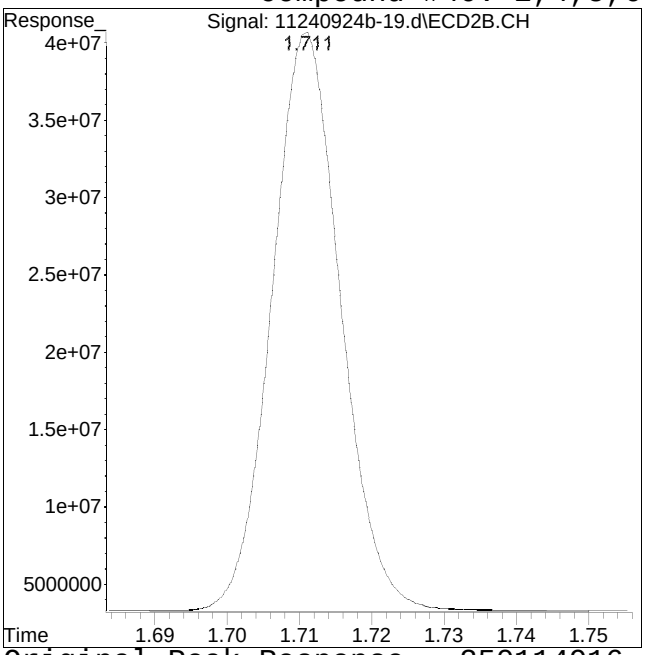


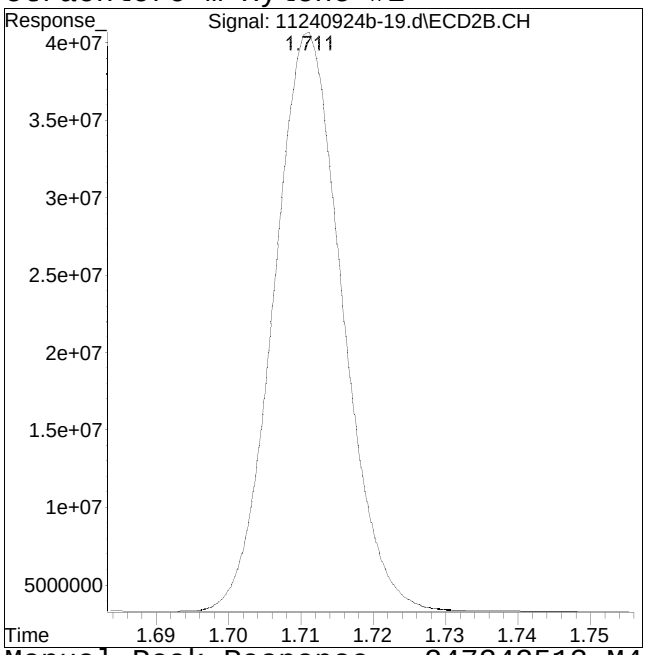
Original Peak Response = 432669432 Manual Peak Response = 397879770 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-19.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:43 Instrument : Pest 11
Sample : L2453720-09,42,, Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



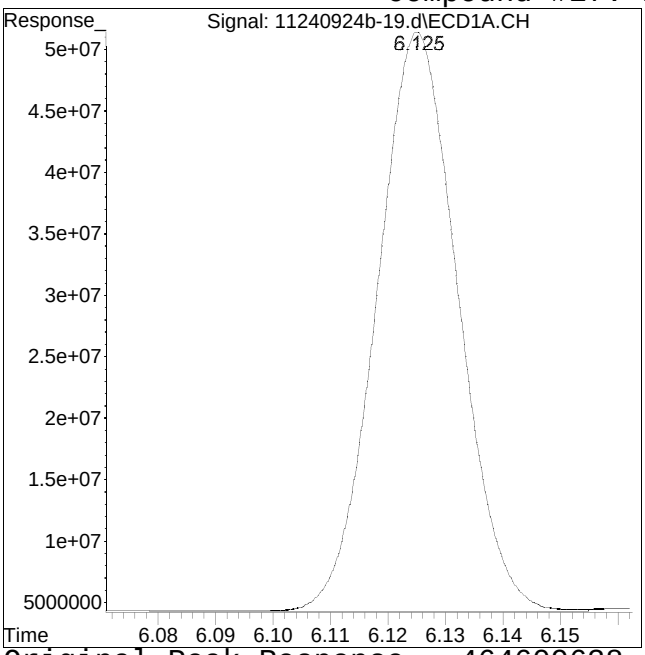


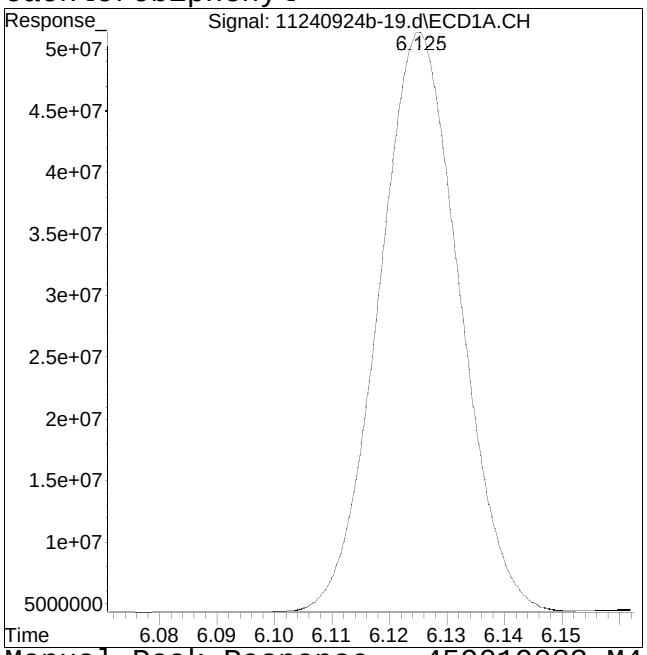
Original Peak Response = 250114916 Manual Peak Response = 247342513 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-19.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:43 Instrument : Pest 11
Sample : L2453720-09,42,, Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



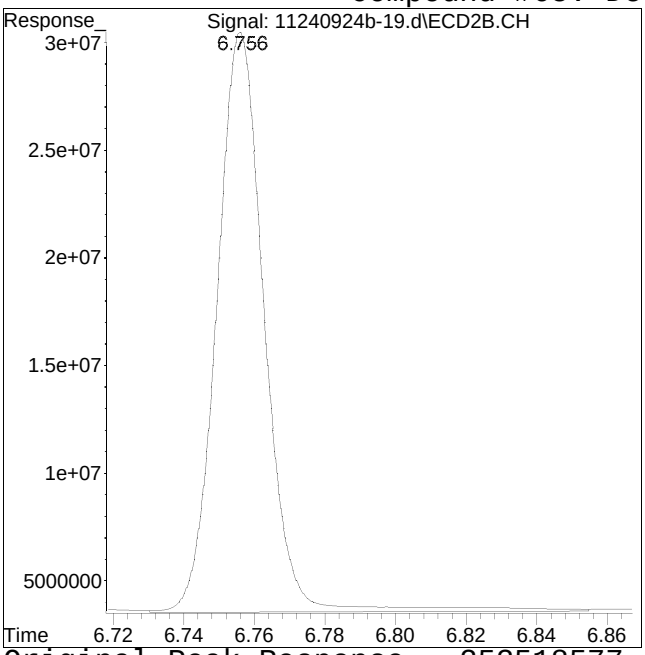


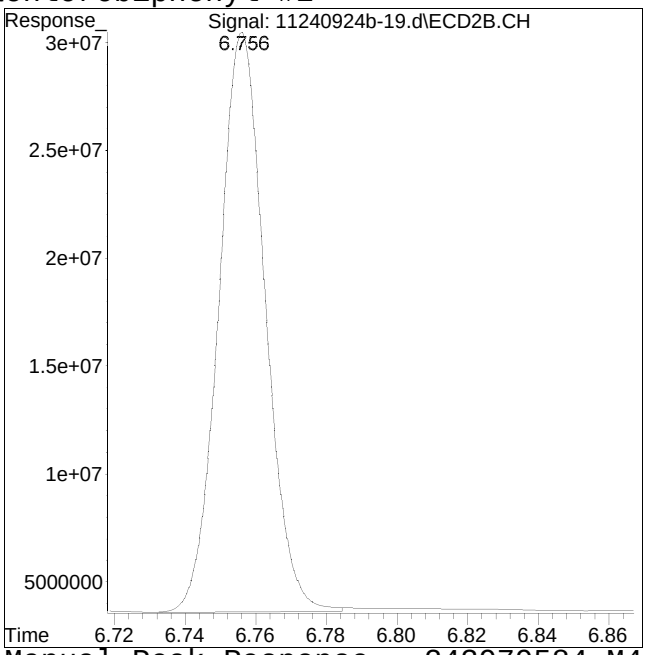
Original Peak Response = 464609638 Manual Peak Response = 459019023 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-19.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:43 Instrument : Pest 11
Sample : L2453720-09,42,, Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2



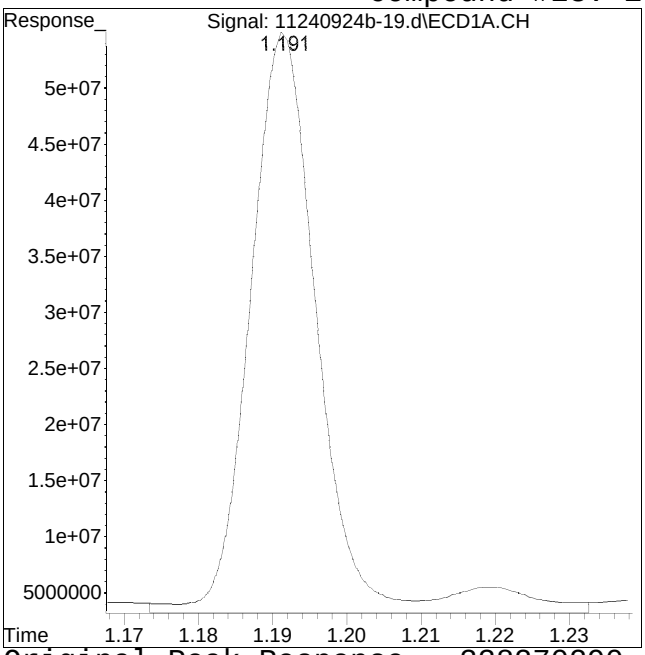


Original Peak Response = 253518577 Manual Peak Response = 243979584 M4
M4 = Poor automated baseline construction.

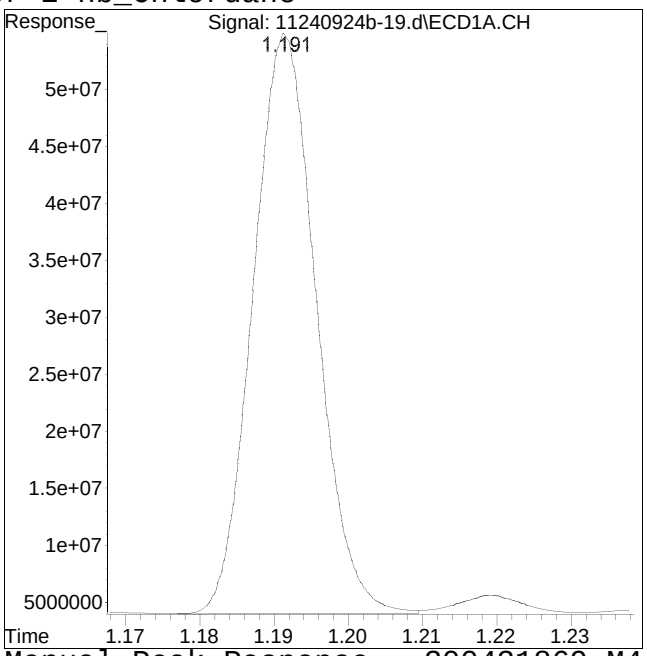
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-19.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:43 Instrument : Pest 11
Sample : L2453720-09,42,, Quant Date : 9/25/2024 2:26 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 338270290



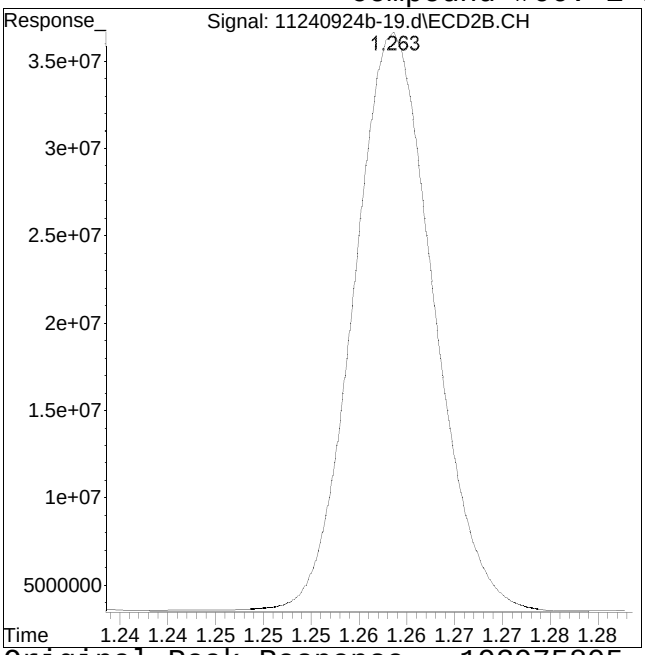
Manual Peak Response = 300431869 M4

M4 = Poor automated baseline construction.

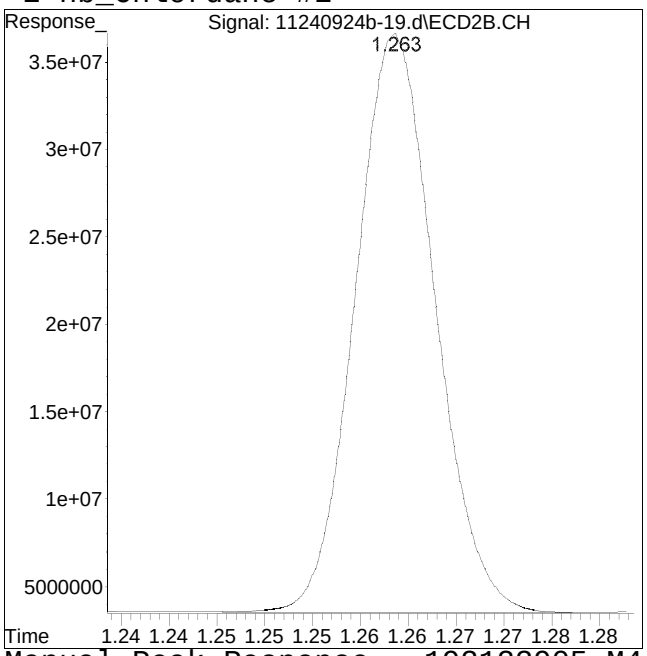
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-19.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:43 Instrument : Pest 11
Sample : L2453720-09,42,, Quant Date : 9/25/2024 2:26 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 193975805



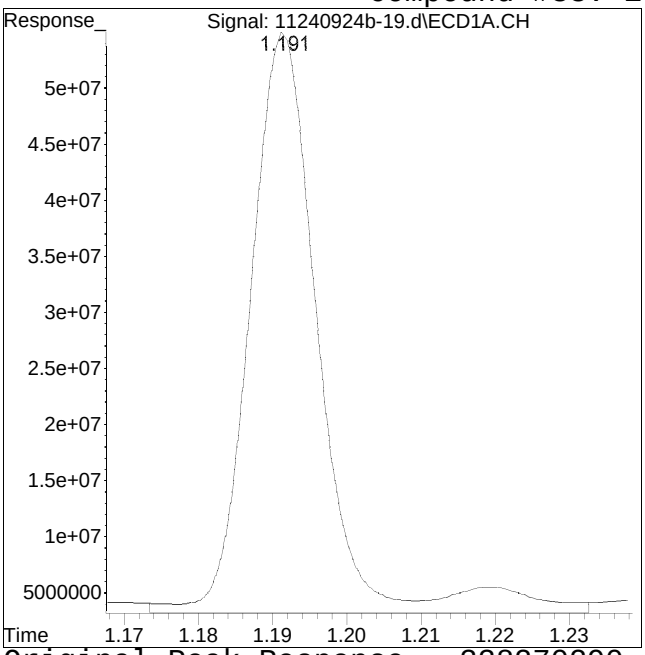
Manual Peak Response = 192123905 M4

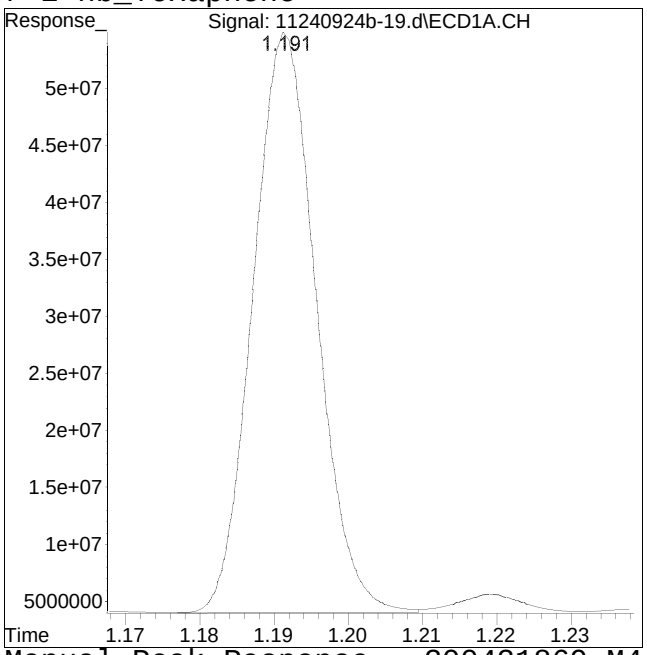
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-19.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:43 Instrument : Pest 11
Sample : L2453720-09,42,, Quant Date : 9/25/2024 2:26 pm

Compound #33: 1-br-2-nb_Toxaphene



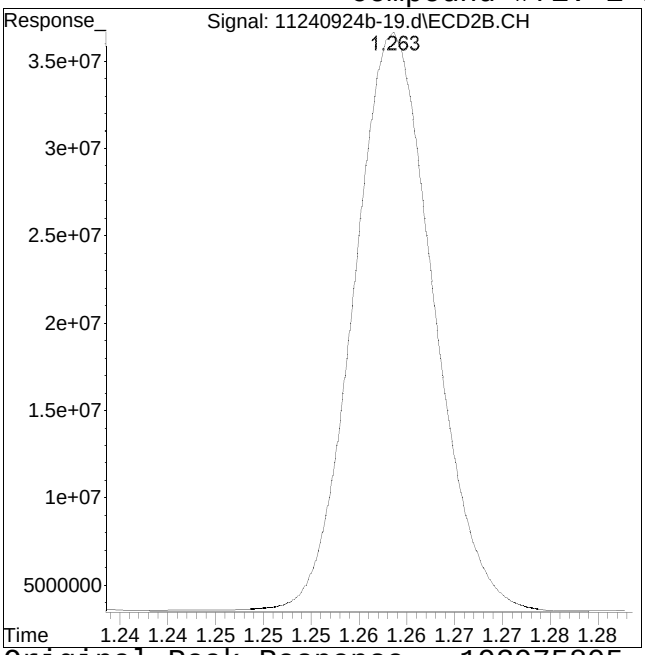


Original Peak Response = 338270290 Manual Peak Response = 300431869 M4
M4 = Poor automated baseline construction.

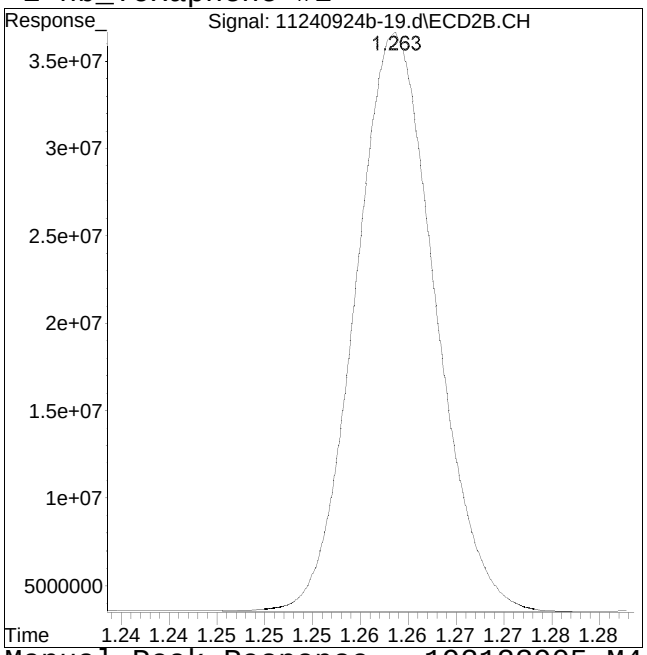
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-19.d Operator : PEST11:jag
Date Inj'd : 9/25/2024 0:43 Instrument : Pest 11
Sample : L2453720-09,42,, Quant Date : 9/25/2024 2:26 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 193975805



Manual Peak Response = 192123905 M4

M4 = Poor automated baseline construction.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.070	1.052	1.075	1.017	1.028	1.042	1.068	1.019	0.980	1.039	3.00
3)	t	Hexachlorobenzene		1.537	1.511	1.518	1.421	1.398	1.344	1.370	1.302	1.253	1.406	7.13
4)	t	alpha-BHC		1.293	1.326	1.375	1.322	1.428	1.579	1.657	1.604	1.561	1.461	9.59
5)	t	gamma-BHC (li	1.464	1.305	1.312	1.356	1.278	1.355	1.457	1.524	1.473	1.430	1.395	6.06
6)	t	beta-BHC		0.665	0.662	0.666	0.624	0.626	0.607	0.622	0.597	0.580	0.628	4.95
7)	t	delta-BHC		1.249	1.257	1.303	1.246	1.337	1.470	1.546	1.502	1.457	1.374	8.70
8)	t	Heptachlor		1.313	1.322	1.357	1.281	1.318	1.358	1.400	1.323	1.217	1.321	3.91
9)	t	Aldrin		1.175	1.189	1.221	1.154	1.205	1.287	1.348	1.300	1.220	1.233	5.24
10)	t	Alachlor			0.247	0.248	0.233	0.238	0.226	0.221	0.199		0.230	7.42
11)	t	Chlorpyrifos			0.674	0.682	0.634	0.615	0.538	0.520	0.466		0.590	14.01
12)	t	Heptachlor Epoxide		1.181	1.208	1.238	1.159	1.186	1.202	1.236	1.175	1.082	1.185	3.96
13)	t	gamma-Chlordane (trans)		1.079	1.070	1.097	1.026	1.044	1.078	1.133	1.110	1.057	1.077	3.07
14)	t	alpha-Chlordane (cis)		1.192	1.207	1.248	1.181	1.200	1.223	1.275	1.242	1.178	1.216	2.74
15)	t	4,4'-DDE		1.107	1.137	1.186	1.119	1.167	1.226	1.298	1.275	1.207	1.192	5.61
16)	t	Endosulfan I		1.109	1.123	1.156	1.085	1.112	1.130	1.172	1.121	1.038	1.116	3.49
17)	t	Dieldrin		1.070	1.103	1.138	1.067	1.113	1.174	1.234	1.196	1.123	1.135	4.98
18)	t	Endrin		1.098	1.132	1.175	1.100	1.144	1.192	1.239	1.188	1.107	1.153	4.25
19)	t	4,4'-DDD		0.857	0.879	0.918	0.859	0.900	0.956	1.015	1.002	0.960	0.927	6.36
20)	t	Endosulfan II		1.034	1.062	1.094	1.026	1.054	1.071	1.111	1.052	0.964	1.052	4.03
21)	t	4,4'-DDT		0.969	1.034	1.071	0.998	1.036	1.083	1.139	1.124	1.071	1.058	5.22
22)	t	Endrin Aldehyde		0.906	0.889	0.917	0.869	0.878	0.877	0.913	0.888	0.841	0.886	2.70
23)	t	Methoxychlor		0.656	0.635	0.675	0.610	0.607	0.565	0.567	0.527	0.485	0.592	10.43
24)	t	Mirex			1.027	1.066	0.980	0.964	0.880	0.899	0.864	0.822	0.938	9.06
25)	t	Endosulfan Sulfate		1.084	1.035	1.065	0.986	1.001	0.988	1.026	0.981	0.922	1.010	4.83
26)	t	Endrin Ketone		1.166	1.200	1.247	1.167	1.200	1.196	1.227	1.160	1.085	1.183	3.94
27)	s	Decachlorobiphenyl		1.355	1.316	1.321	1.208	1.146	1.036	1.055	1.020	1.010	1.163	12.13
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.038	0.036	0.037	0.037	0.038	0.037	0.036		*L	0.999
3)														
30)	l1	chlordane-3			0.049	0.052	0.049	0.046	0.045	0.044	0.040		*L	0.997
4)														
31)	l1	chlordane-4			0.164	0.158	0.156	0.160	0.165	0.162	0.151		*L	0.998
6)														
32)	l1	chlordane-5			0.243	0.244	0.245	0.250	0.255	0.249	0.230		*L	0.998
2)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33) i	1-br-2-nb_Toxaphene	----------ISTD----------											
34) l2	toxaphene-2			0.038	0.046		0.055	0.055	0.056			*L	0.999
8)													
35) l2	toxaphene-3			0.032	0.035		0.042	0.043	0.044			*L	0.999
5)													
36) l2	toxaphene-4			0.041	0.040		0.042	0.043	0.045			*L	0.999
2)													
37) l2	toxaphene-5			0.053	0.041		0.039	0.039	0.040			*L	0.999
9)													

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Signal #2 Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra			1.206	1.206	1.141	1.107	1.082	1.085	1.067	1.091	1.038	1.114	5.33
3)	t	Hexachloroben			1.451	1.390	1.323	1.249	1.197	1.146	1.145	1.144	1.106	1.239	9.92
4)	t	alpha-BHC			1.558	1.563	1.526	1.479	1.547	1.686	1.736	1.764	1.719	1.620	6.53
5)	t	gamma-BHC (li		1.777	1.551	1.516	1.480	1.413	1.442	1.525	1.563	1.584	1.540	1.539	6.46
6)	t	beta-BHC			0.854	0.824	0.779	0.737	0.692	0.642	0.639	0.637	0.614	*L	0.999
6)															
7)	t	delta-BHC			1.529	1.507	1.460	1.411	1.443	1.548	1.598	1.627	1.582	1.523	4.86
8)	t	Heptachlor			1.786	1.721	1.657	1.575	1.545	1.553	1.565	1.548	1.427	1.598	6.72
9)	t	Aldrin			1.511	1.468	1.436	1.367	1.367	1.434	1.469	1.478	1.382	1.435	3.65
10)	t	Alachlor			0.293	0.281	0.264	0.241	0.197	0.183	0.172		*L	0.996	
7)															
11)	t	Chlorpyrifos			1.095	1.043	0.969	0.877	0.736	0.700	0.666		*L	0.998	
3)															
12)	t	Heptachlor Ep		1.616	1.577	1.520	1.425	1.372	1.353	1.362	1.352	1.252	1.425	8.44	
13)	t	gamma-Chlorda		1.483	1.457	1.376	1.298	1.234	1.224	1.252	1.275	1.205	1.312	7.85	
14)	t	alpha-Chlorda		1.641	1.577	1.521	1.435	1.382	1.359	1.381	1.400	1.318	1.446	7.54	
15)	t	4,4'-DDE		1.377	1.359	1.330	1.263	1.272	1.348	1.390	1.418	1.327	1.343	3.82	
16)	t	Endosulfan I		1.515	1.476	1.419	1.334	1.284	1.260	1.269	1.263	1.167	1.332	8.59	
17)	t	Dieldrin		1.415	1.389	1.352	1.281	1.267	1.305	1.334	1.344	1.257	1.327	4.11	
18)	t	Endrin		1.442	1.411	1.375	1.305	1.290	1.326	1.350	1.356	1.265	1.347	4.25	
19)	t	4,4'-DDD		1.118	1.104	1.084	1.022	1.026	1.071	1.106	1.134	1.088	1.084	3.57	
20)	t	Endosulfan II		1.364	1.341	1.298	1.220	1.180	1.154	1.164	1.150	1.053	1.214	8.39	
21)	t	4,4'-DDT		1.293	1.294	1.271	1.196	1.196	1.227	1.262	1.290	1.222	1.250	3.26	
22)	t	Endrin Aldehyde		1.156	1.131	1.093	1.025	0.982	0.941	0.951	0.957	0.906	*L	0.999	
3)															
23)	t	Methoxychlor		0.848	0.816	0.797	0.739	0.695	0.630	0.620	0.614	0.581	0.704	14.13	
24)	t	Mirex			1.298	1.250	1.156	1.061	0.921	0.910	0.914	0.867	*L	0.999	
3)															
25)	t	Endosulfan Su		1.382	1.336	1.302	1.218	1.159	1.107	1.116	1.118	1.054	1.199	9.68	
26)	t	Endrin Ketone		1.378	1.372	1.340	1.264	1.245	1.205	1.207	1.200	1.136	1.261	6.75	
27)	s	Decachlorobip		1.252	1.219	1.185	1.105	1.040	0.936	0.932	0.943	0.929	1.060	12.61	
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.054	0.052	0.044	0.039	0.040	0.040	0.035		*L	0.996	
3)															
30)	l1	chlordane-3			0.070	0.064	0.055	0.047	0.046	0.044	0.037		*L	0.991	

Initial Calibration Summary
Form 6
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**
Instrument ID	**: PEST11**	**Ical Ref**	**: ICAL21365**
Calibration dates	**: 08/01/24 18:37 08/01/24 23:11**		

Signal #2 Calibration Files

1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
2)														
31)	l1	chlordane-4			0.208	0.191	0.166	0.163	0.167	0.169	0.147		*L	0.995
9)														
32)	l1	chlordane-5			0.162	0.149	0.130	0.126	0.128	0.129	0.113		*L	0.996
1)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.028	0.028		0.023	0.023	0.024			*L	0.999
7)														
35)	l2	toxaphene-3			0.042	0.040		0.035	0.035	0.035			*L	0.999
8)														
36)	l2	toxaphene-4			0.049	0.047		0.041	0.041	0.042			*L	0.999
7)														
37)	l2	toxaphene-5			0.050	0.045		0.038	0.038	0.039			*L	0.999
7)														

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.070	1.052	1.075	1.017	1.028	1.042	1.068	1.019	0.980	1.039	3.00
3)	t	Hexachloroben...		1.537	1.511	1.518	1.421	1.398	1.344	1.370	1.302	1.253	1.406	7.13
4)	t	alpha-BHC		1.293	1.326	1.375	1.322	1.428	1.579	1.657	1.604	1.561	1.461	9.59
5)	t	gamma-BHC (li...	1.464	1.305	1.312	1.356	1.278	1.355	1.457	1.524	1.473	1.430	1.395	6.06
6)	t	beta-BHC		0.665	0.662	0.666	0.624	0.626	0.607	0.622	0.597	0.580	0.628	4.95
7)	t	delta-BHC		1.249	1.257	1.303	1.246	1.337	1.470	1.546	1.502	1.457	1.374	8.70
8)	t	Heptachlor		1.313	1.322	1.357	1.281	1.318	1.358	1.400	1.323	1.217	1.321	3.91
9)	t	Aldrin		1.175	1.189	1.221	1.154	1.205	1.287	1.348	1.300	1.220	1.233	5.24
10)	t	Alachlor			0.247	0.248	0.233	0.238	0.226	0.221	0.199		0.230	7.42
11)	t	Chlorpyrifos			0.674	0.682	0.634	0.615	0.538	0.520	0.466		0.590	14.01
12)	t	Heptachlor Ep...		1.181	1.208	1.238	1.159	1.186	1.202	1.236	1.175	1.082	1.185	3.96
13)	t	gamma-Chlorda...		1.079	1.070	1.097	1.026	1.044	1.078	1.133	1.110	1.057	1.077	3.07
14)	t	alpha-Chlorda...		1.192	1.207	1.248	1.181	1.200	1.223	1.275	1.242	1.178	1.216	2.74
15)	t	4,4'-DDE		1.107	1.137	1.186	1.119	1.167	1.226	1.298	1.275	1.207	1.192	5.61
16)	t	Endosulfan I		1.109	1.123	1.156	1.085	1.112	1.130	1.172	1.121	1.038	1.116	3.49

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)	t	Dieldrin		1.070	1.103	1.138	1.067	1.113	1.174	1.234	1.196	1.123	1.135	4.98
18)	t	Endrin		1.098	1.132	1.175	1.100	1.144	1.192	1.239	1.188	1.107	1.153	4.25
19)	t	4,4'-DDD		0.857	0.879	0.918	0.859	0.900	0.956	1.015	1.002	0.960	0.927	6.36
20)	t	Endosulfan II		1.034	1.062	1.094	1.026	1.054	1.071	1.111	1.052	0.964	1.052	4.03
21)	t	4,4'-DDT		0.969	1.034	1.071	0.998	1.036	1.083	1.139	1.124	1.071	1.058	5.22
22)	t	Endrin Aldehyde		0.906	0.889	0.917	0.869	0.878	0.877	0.913	0.888	0.841	0.886	2.70
23)	t	Methoxychlor		0.656	0.635	0.675	0.610	0.607	0.565	0.567	0.527	0.485	0.592	10.43
24)	t	Mirex			1.027	1.066	0.980	0.964	0.880	0.899	0.864	0.822	0.938	9.06
25)	t	Endosulfan Su...		1.084	1.035	1.065	0.986	1.001	0.988	1.026	0.981	0.922	1.010	4.83
26)	t	Endrin Ketone		1.166	1.200	1.247	1.167	1.200	1.196	1.227	1.160	1.085	1.183	3.94
27)	s	Decachlorobip...		1.355	1.316	1.321	1.208	1.146	1.036	1.055	1.020	1.010	1.163	12.13
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.038	0.036	0.037	0.037	0.038	0.037	0.036		*L	0.999
3														
30)	l1	chlordane-3			0.049	0.052	0.049	0.046	0.045	0.044	0.040		*L	0.997
4														
31)	l1	chlordane-4			0.164	0.158	0.156	0.160	0.165	0.162	0.151		*L	0.998
6														
32)	l1	chlordane-5			0.243	0.244	0.245	0.250	0.255	0.249	0.230		*L	0.998
2														

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2			0.038	0.046		0.055	0.055	0.056			*L	0.9998
35)	l2	toxaphene-3			0.032	0.035		0.042	0.043	0.044			*L	0.9995
36)	l2	toxaphene-4			0.041	0.040		0.042	0.043	0.045			*L	0.9992
37)	l2	toxaphene-5			0.053	0.041		0.039	0.039	0.040			*L	0.9999

Signal #2 Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...			1.206	1.206	1.141	1.107	1.082	1.085	1.067	1.091	1.038	1.114	5.33
3)	t	Hexachloroben...			1.451	1.390	1.323	1.249	1.197	1.146	1.145	1.144	1.106	1.239	9.92
4)	t	alpha-BHC			1.558	1.563	1.526	1.479	1.547	1.686	1.736	1.764	1.719	1.620	6.53
5)	t	gamma-BHC (li...		1.777	1.551	1.516	1.480	1.413	1.442	1.525	1.563	1.584	1.540	1.539	6.46
6)	t	beta-BHC			0.854	0.824	0.779	0.737	0.692	0.642	0.639	0.637	0.614	*L	0.9996
7)	t	delta-BHC			1.529	1.507	1.460	1.411	1.443	1.548	1.598	1.627	1.582	1.523	4.86
8)	t	Heptachlor			1.786	1.721	1.657	1.575	1.545	1.553	1.565	1.548	1.427	1.598	6.72
9)	t	Aldrin			1.511	1.468	1.436	1.367	1.367	1.434	1.469	1.478	1.382	1.435	3.65

Response Factor Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10) t	Alachlor			0.293	0.281	0.264	0.241	0.197	0.183	0.172		*L	0.996
7													
11) t	Chlorpyrifos			1.095	1.043	0.969	0.877	0.736	0.700	0.666		*L	0.998
3													
12) t	Heptachlor Ep...		1.616	1.577	1.520	1.425	1.372	1.353	1.362	1.352	1.252	1.425	8.44
13) t	gamma-Chlorda...		1.483	1.457	1.376	1.298	1.234	1.224	1.252	1.275	1.205	1.312	7.85
14) t	alpha-Chlorda...		1.641	1.577	1.521	1.435	1.382	1.359	1.381	1.400	1.318	1.446	7.54
15) t	4,4'-DDE		1.377	1.359	1.330	1.263	1.272	1.348	1.390	1.418	1.327	1.343	3.82
16) t	Endosulfan I		1.515	1.476	1.419	1.334	1.284	1.260	1.269	1.263	1.167	1.332	8.59
17) t	Dieldrin		1.415	1.389	1.352	1.281	1.267	1.305	1.334	1.344	1.257	1.327	4.11
18) t	Endrin		1.442	1.411	1.375	1.305	1.290	1.326	1.350	1.356	1.265	1.347	4.25
19) t	4,4'-DDD		1.118	1.104	1.084	1.022	1.026	1.071	1.106	1.134	1.088	1.084	3.57
20) t	Endosulfan II		1.364	1.341	1.298	1.220	1.180	1.154	1.164	1.150	1.053	1.214	8.39
21) t	4,4'-DDT		1.293	1.294	1.271	1.196	1.196	1.227	1.262	1.290	1.222	1.250	3.26
22) t	Endrin Aldehyde		1.156	1.131	1.093	1.025	0.982	0.941	0.951	0.957	0.906	*L	0.999
3													
23) t	Methoxychlor		0.848	0.816	0.797	0.739	0.695	0.630	0.620	0.614	0.581	0.704	14.13
24) t	Mirex			1.298	1.250	1.156	1.061	0.921	0.910	0.914	0.867	*L	0.999
3													
25) t	Endosulfan Su...		1.382	1.336	1.302	1.218	1.159	1.107	1.116	1.118	1.054	1.199	9.68

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024
Response Via : Initial Calibration

Calibration Files
1 =11240801i-03.d 2 =11240801i-04.d 3 =11240801i-22.d 4 =11240801i-23.d 5 =11240801i-16.d
7 =11240801i-24.d 8 =11240801i-25.d 9 =11240801i-26.d 10 =11240801i-20.d 11 =11240801i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
26)	t	Endrin Ketone	1.378	1.372	1.340	1.264	1.245	1.205	1.207	1.200	1.136		1.261	6.75
27)	s	Decachlorobip...	1.252	1.219	1.185	1.105	1.040	0.936	0.932	0.943	0.929		1.060	12.61
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1	0.054	0.052	0.044	0.039	0.040	0.040	0.035				*L	0.9963
30)	l1	chlordane-3	0.070	0.064	0.055	0.047	0.046	0.044	0.037				*L	0.9912
31)	l1	chlordane-4	0.208	0.191	0.166	0.163	0.167	0.169	0.147				*L	0.9959
32)	l1	chlordane-5	0.162	0.149	0.130	0.126	0.128	0.129	0.113				*L	0.9961
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-2	0.028	0.028	0.023	0.023	0.024						*L	0.9997
35)	l2	toxaphene-3	0.042	0.040	0.035	0.035	0.035						*L	0.9998
36)	l2	toxaphene-4	0.049	0.047	0.041	0.041	0.042						*L	0.9997
37)	l2	toxaphene-5	0.050	0.045	0.038	0.038	0.039						*L	0.9997

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	226.2E6	184.7E6	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15) t	4,4'-DDE	3.659	4.472	862871	1055459	0.080M2	0.106M4
18) t	Endrin	4.211	4.925	519.0E6	456.6E6	49.762M4	45.902M3
19) t	4,4'-DDD	4.325	5.050	1951195	2046326	0.233M4	0.256M3
21) t	4,4'-DDT	4.616	5.325	974.6E6	872.9E6	101.766M4	94.533M4
22) t D	Endrin Aldeh	4.869	5.421	1022766	1047335	0.128M3	N.D. M4
26) t	Endrin Keton	5.487	6.059	4628888	4774072	0.432M4	0.513M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (Sig #2)
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

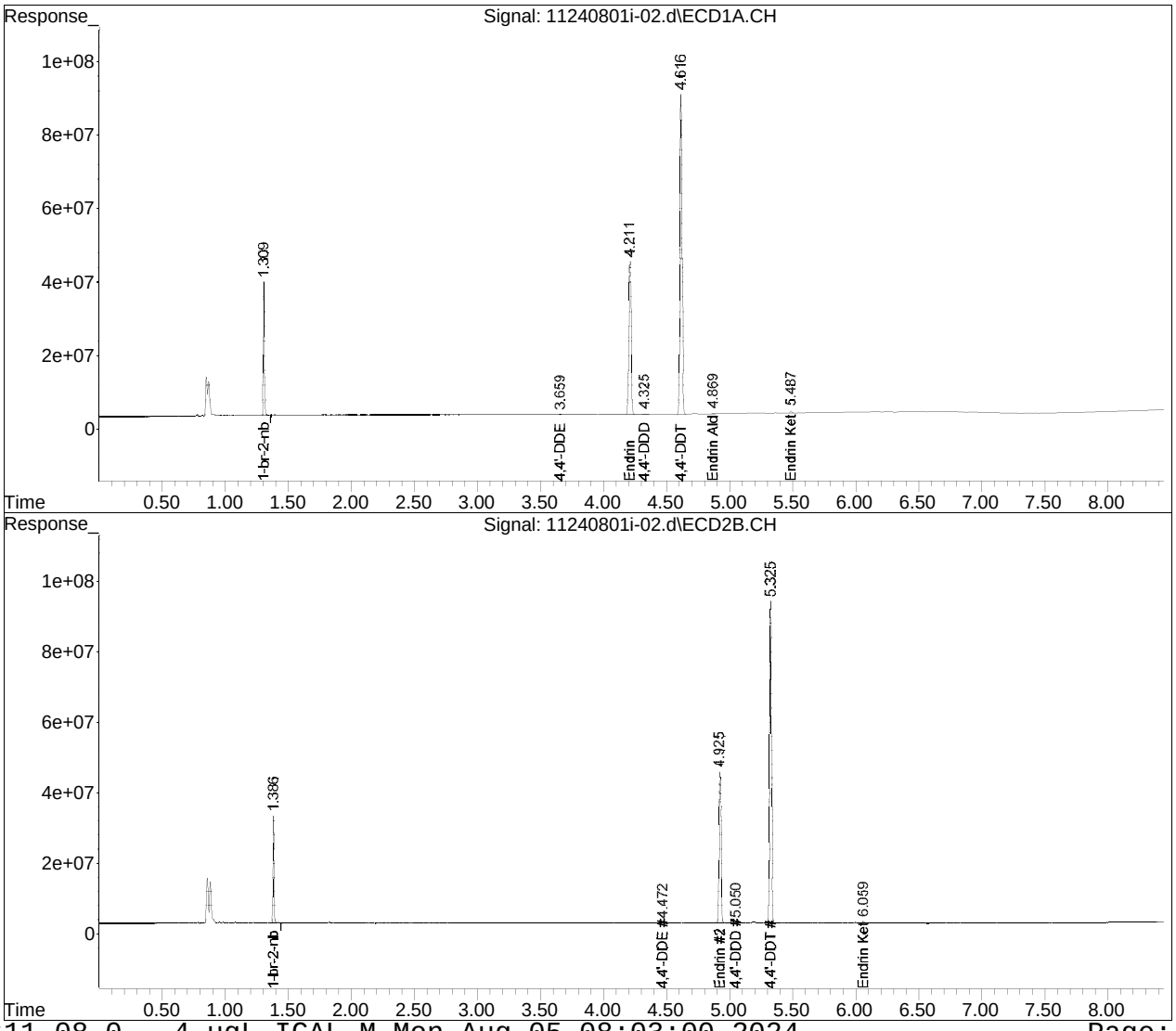
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:25
Operator : PEST11:ejl
Sample : pem11240801i-01,42e,,pp 11667 - (Sig #1); pem-01,42e,,pp 11667 - (
Misc : WG1955254,ical
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:30:39 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:15 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

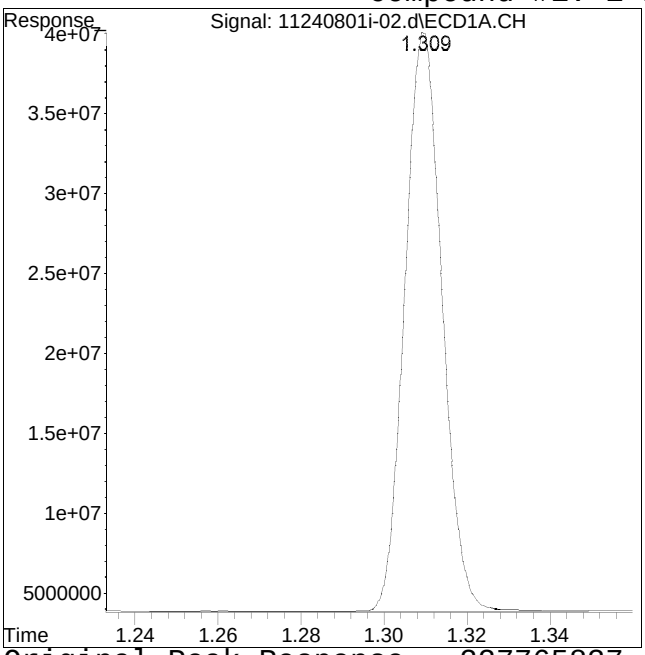
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

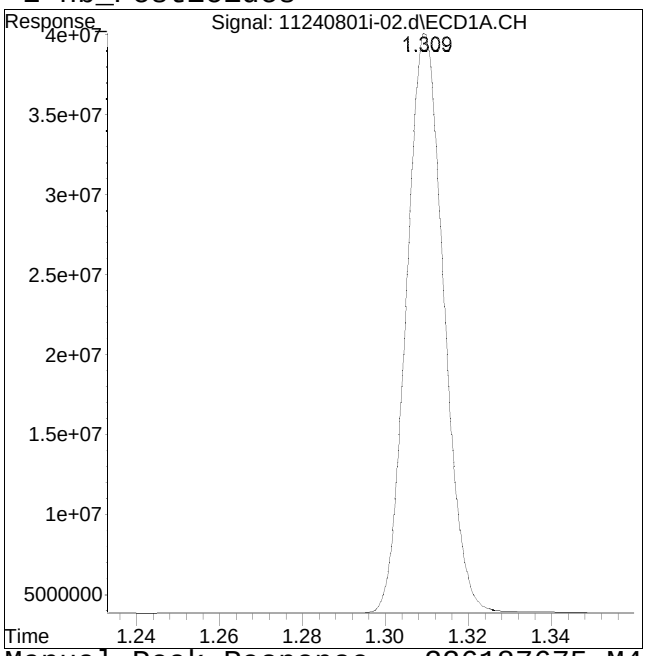


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11 Quant Date : 8/2/2024 12:30 pm

Compound #1: 1-br-2-nb_Pesticides





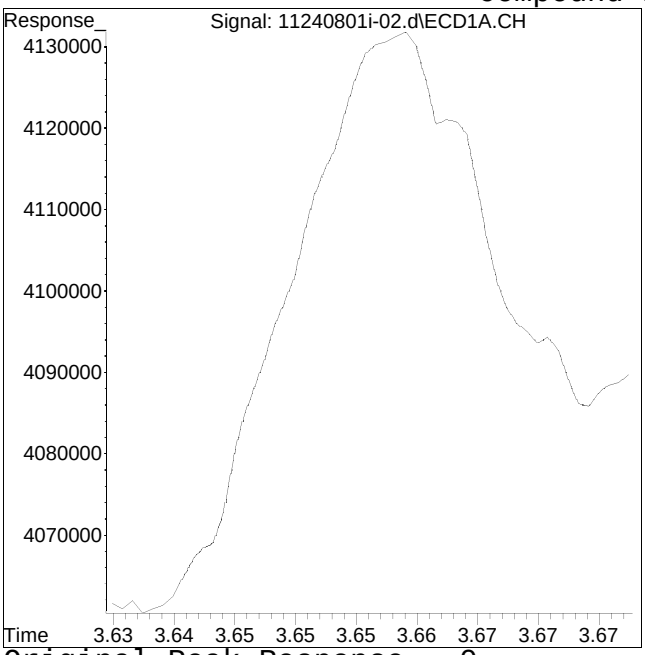
Original Peak Response = 227765837 Manual Peak Response = 226187675 M4
M4 = Poor automated baseline construction.

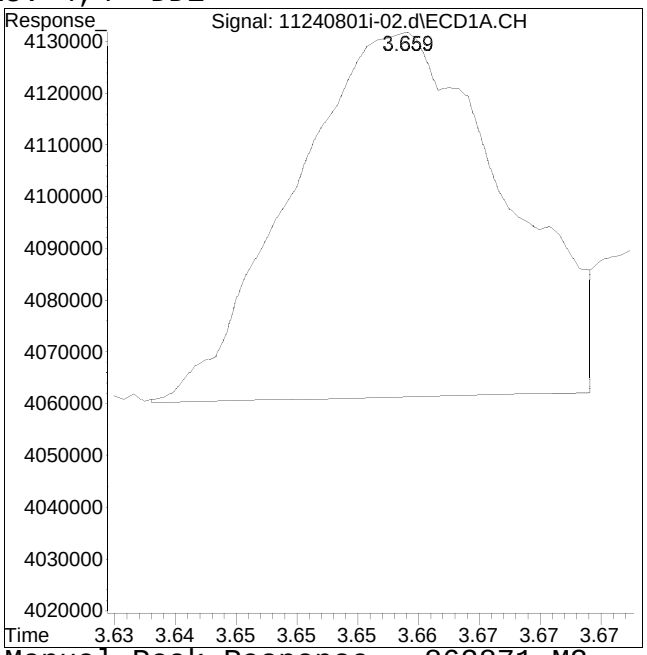
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #15: 4,4'-DDE



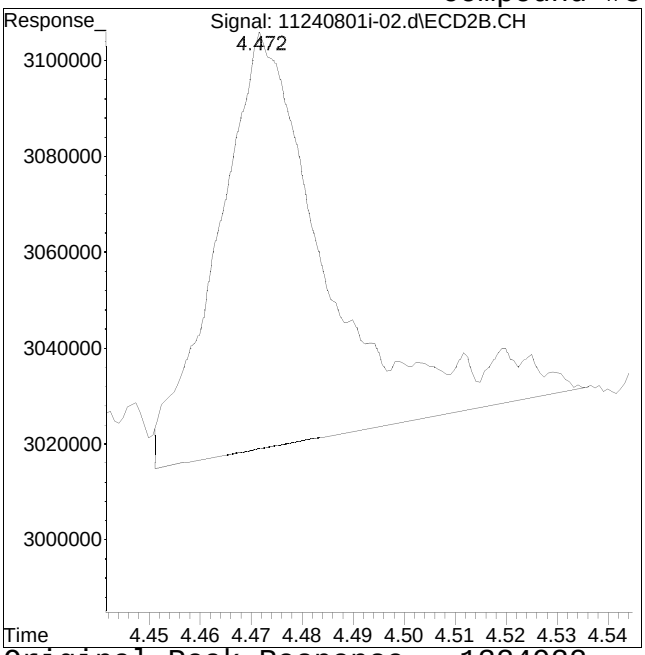


Original Peak Response = 0
Manual Peak Response = 862871 M2
M2 = Peak not found by automatic integration algorithm.

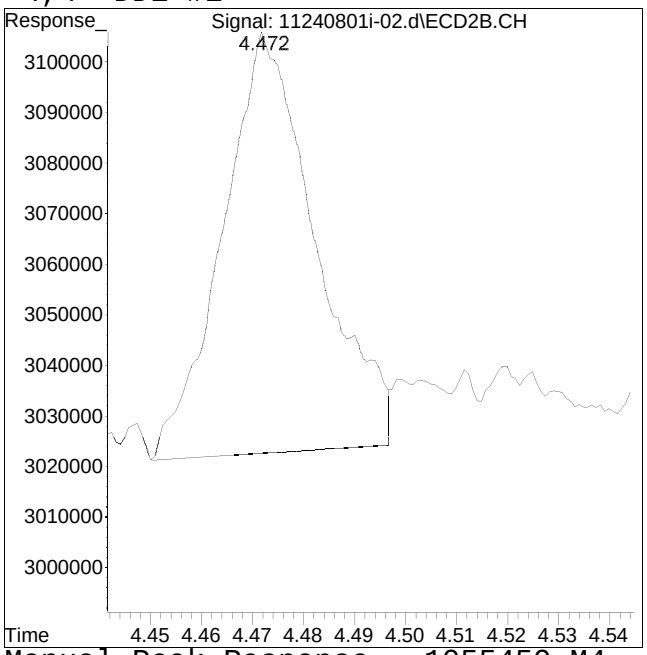
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 1324922



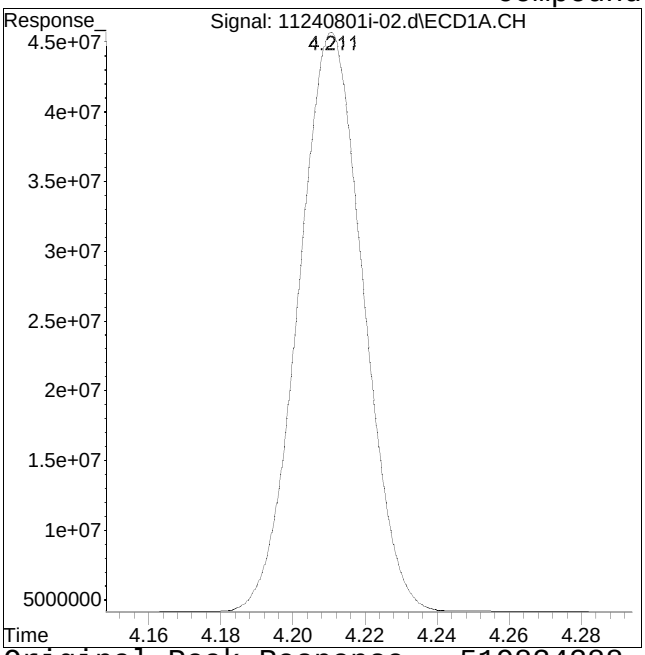
Manual Peak Response = 1055459 M4

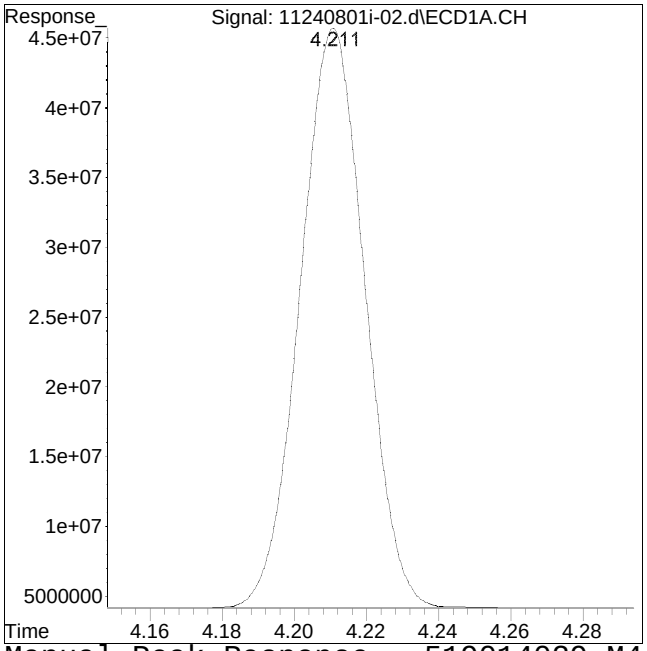
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #18: Endrin





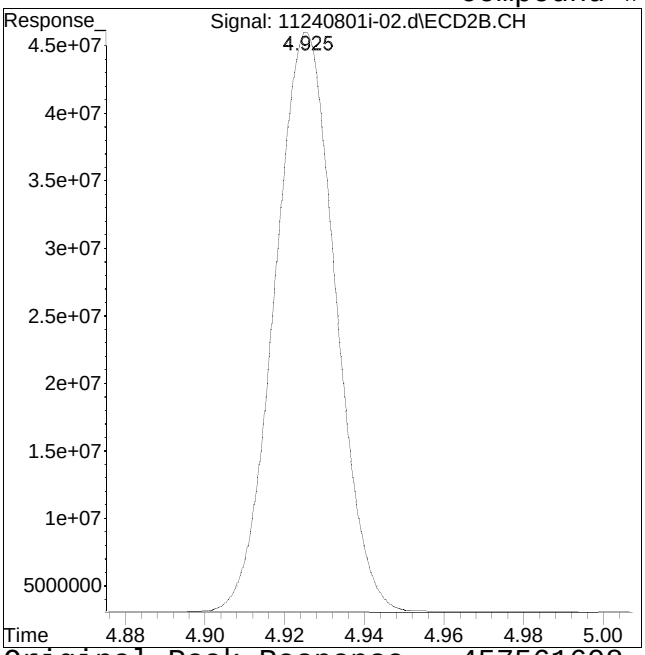
Original Peak Response = 519834388 Manual Peak Response = 519014029 M4
M4 = Poor automated baseline construction.

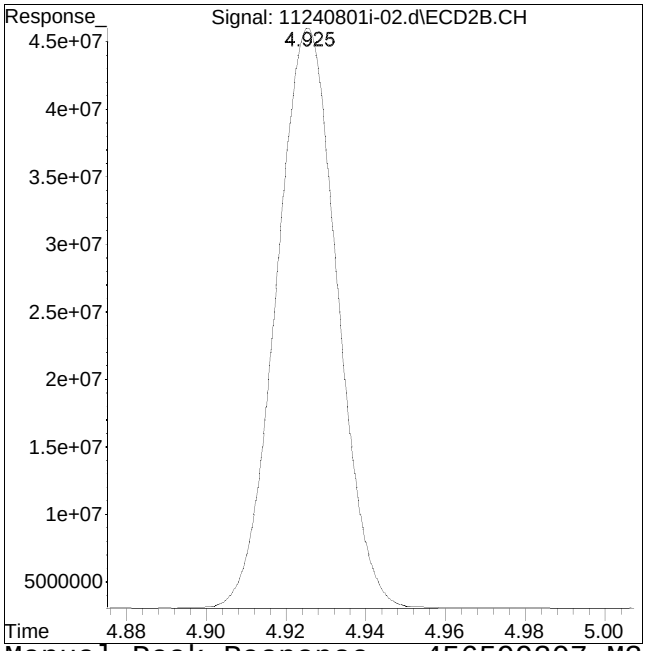
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #56: Endrin #2





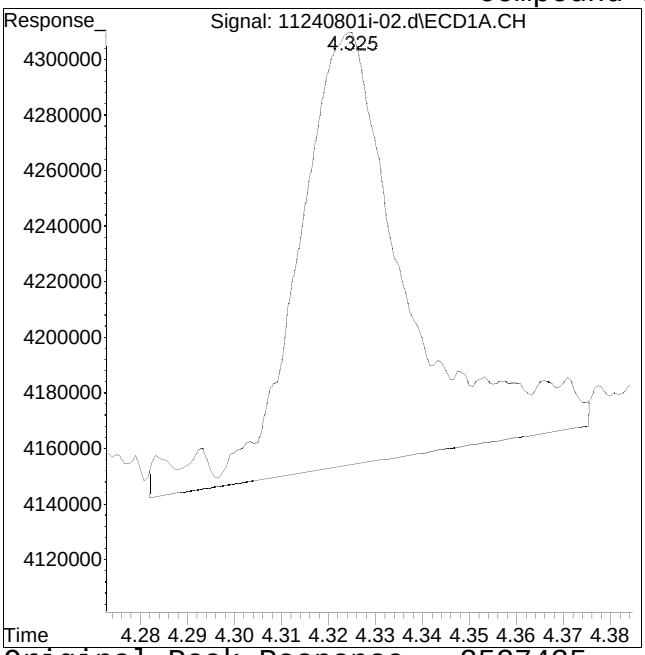
Original Peak Response = 457561608 Manual Peak Response = 456599307 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

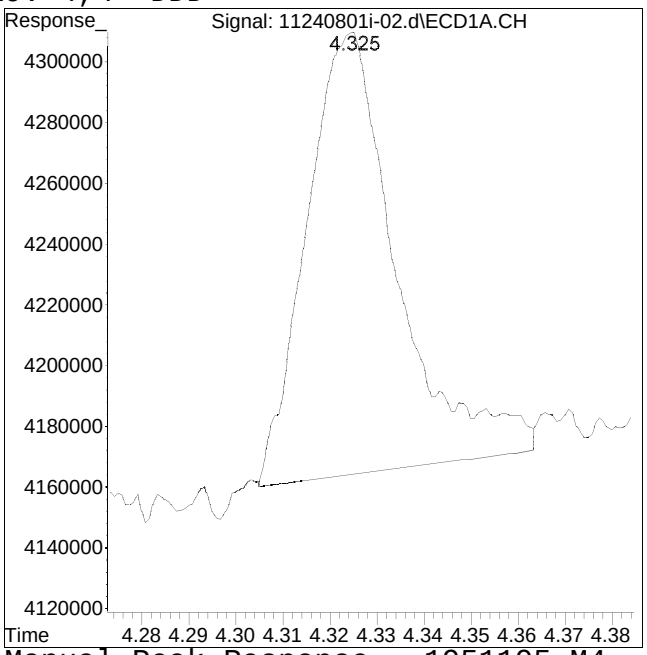
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #19: 4,4'-DDD



Original Peak Response = 2527435



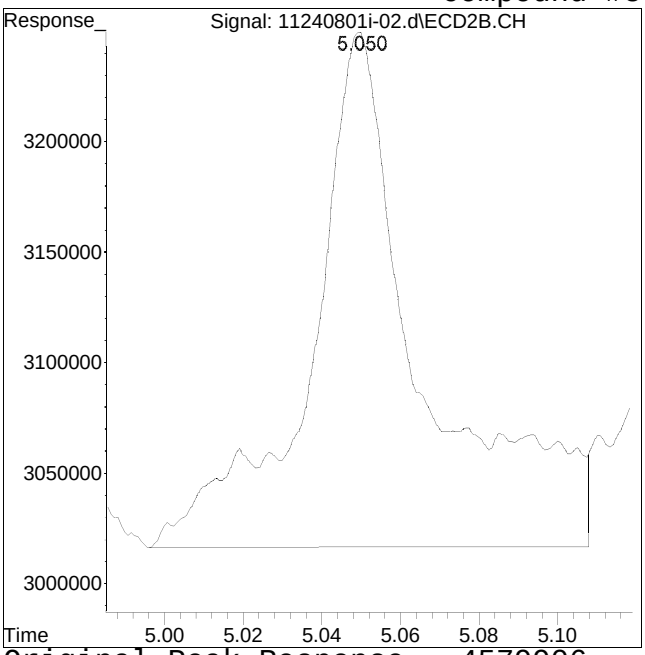
Manual Peak Response = 1951195 M4

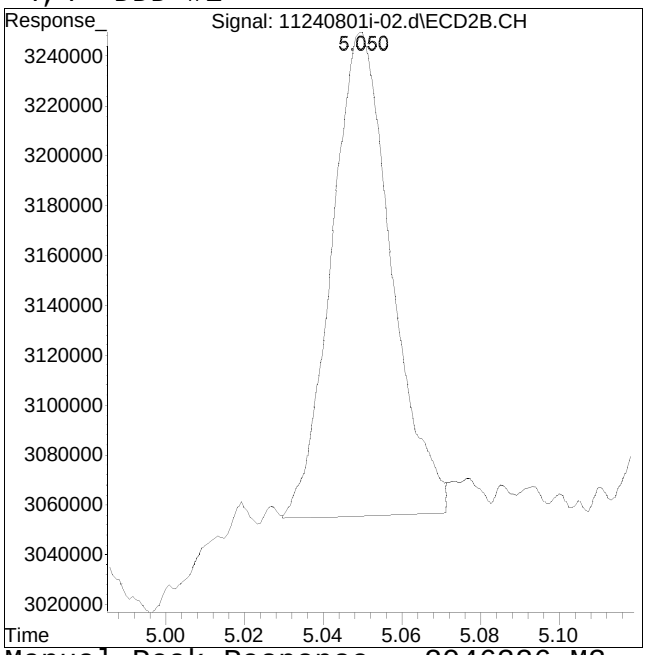
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #57: 4,4'-DDD #2



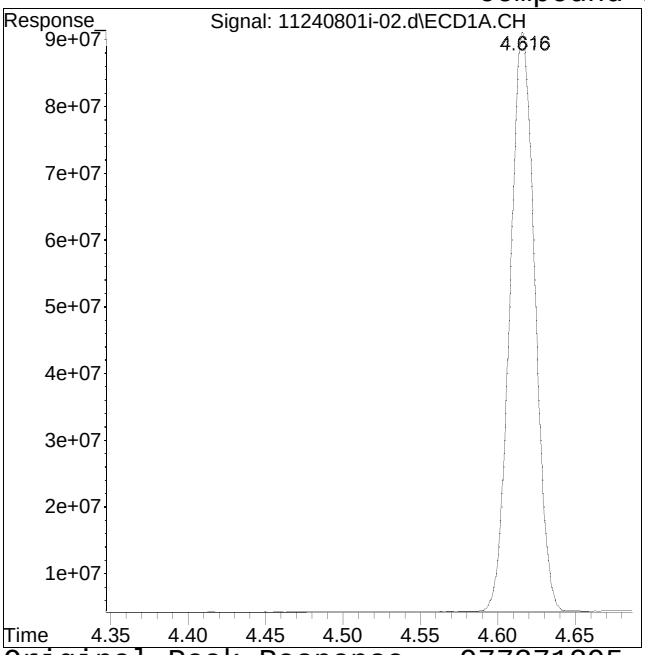


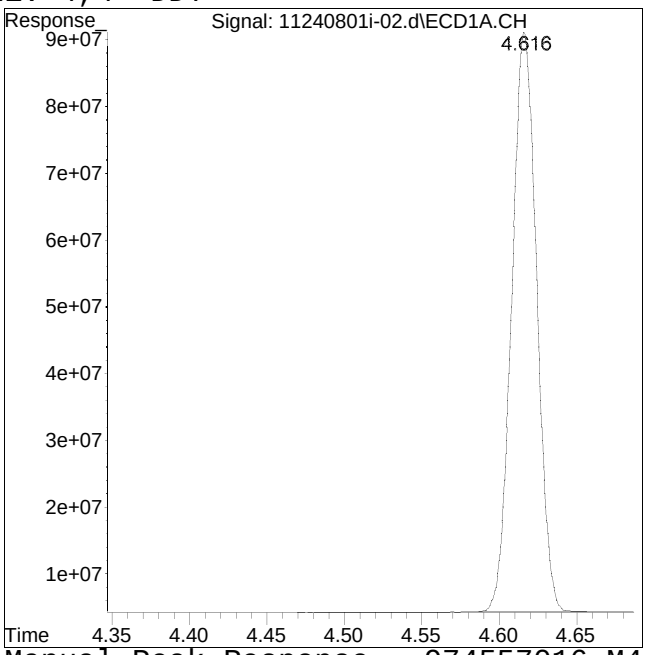
Original Peak Response = 4579906 Manual Peak Response = 2046326 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #21: 4,4'-DDT



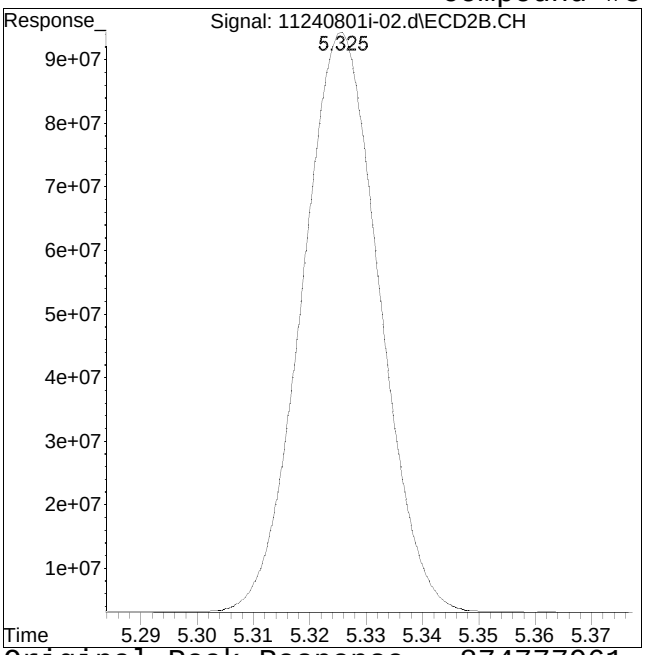


Original Peak Response = 977371295 Manual Peak Response = 974557016 M4
M4 = Poor automated baseline construction.

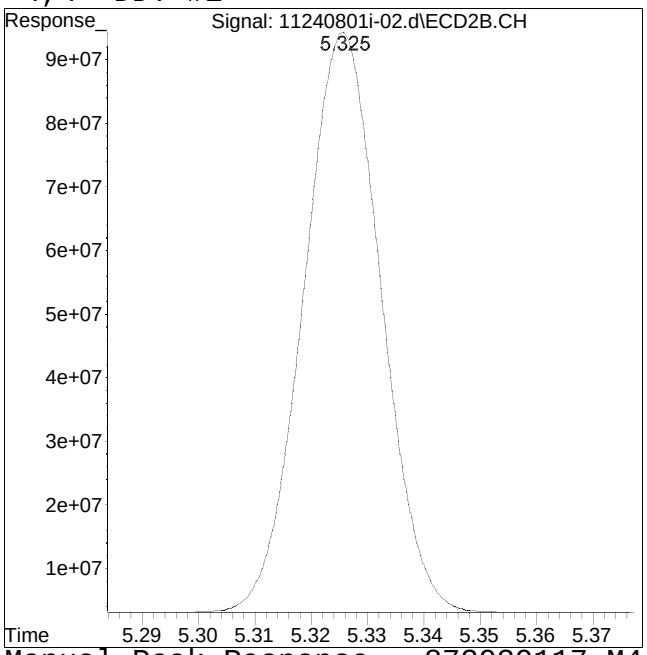
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 874777961



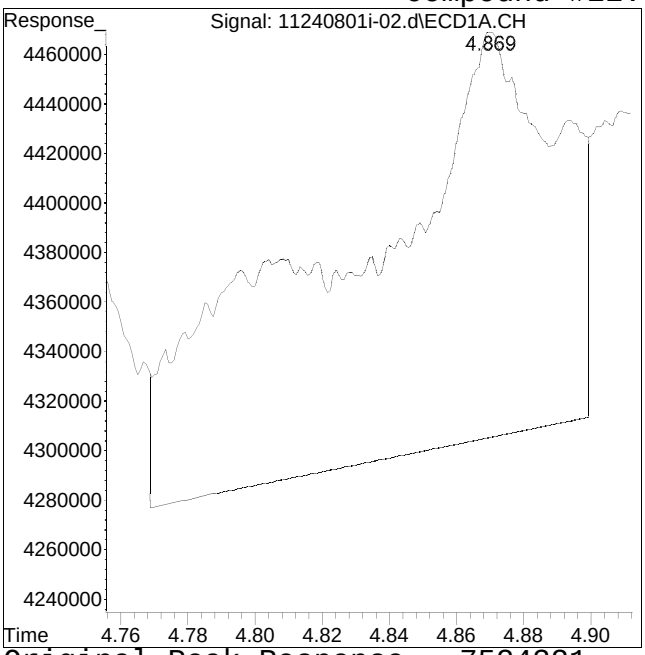
Manual Peak Response = 872939117 M4

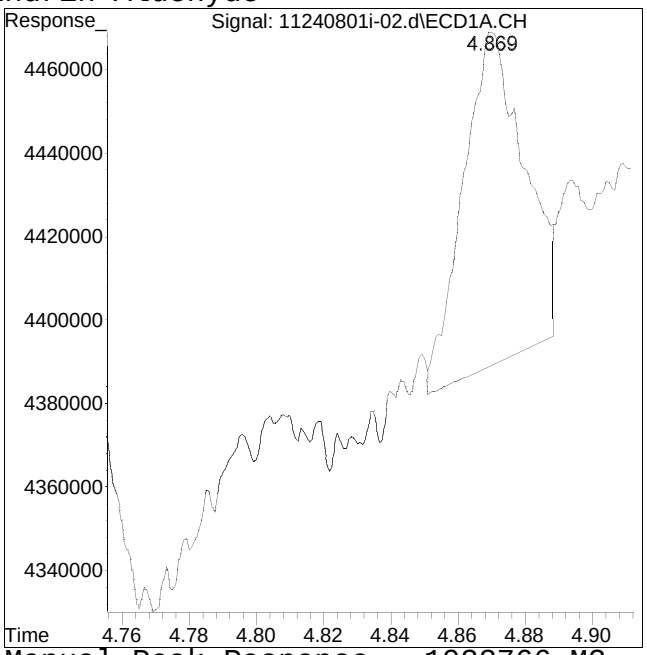
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #22: Endrin Aldehyde





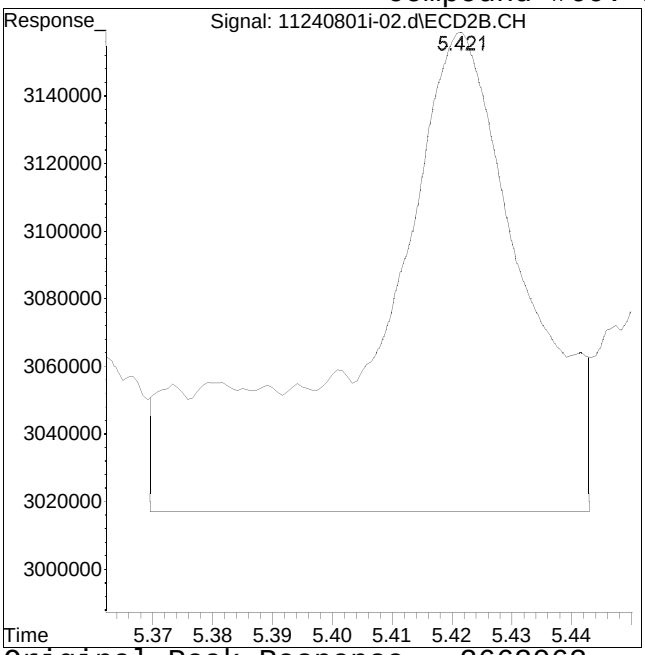
Original Peak Response = 7524321 Manual Peak Response = 1022766 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

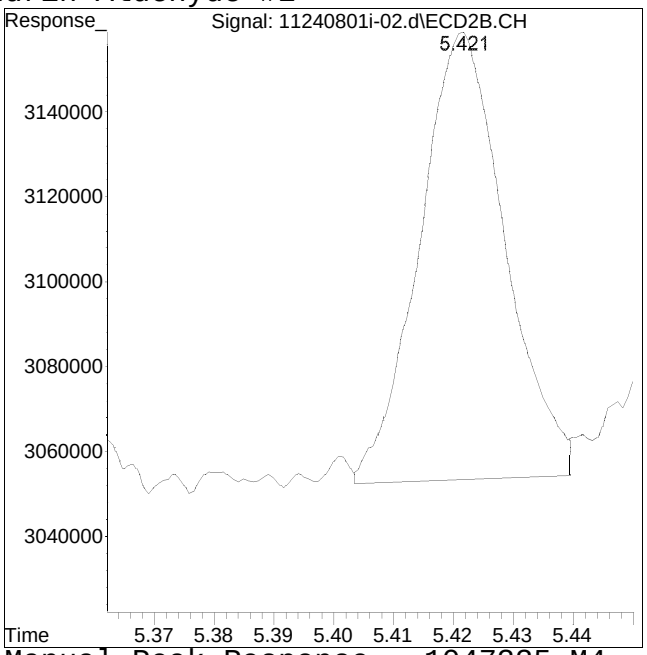
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 2663063



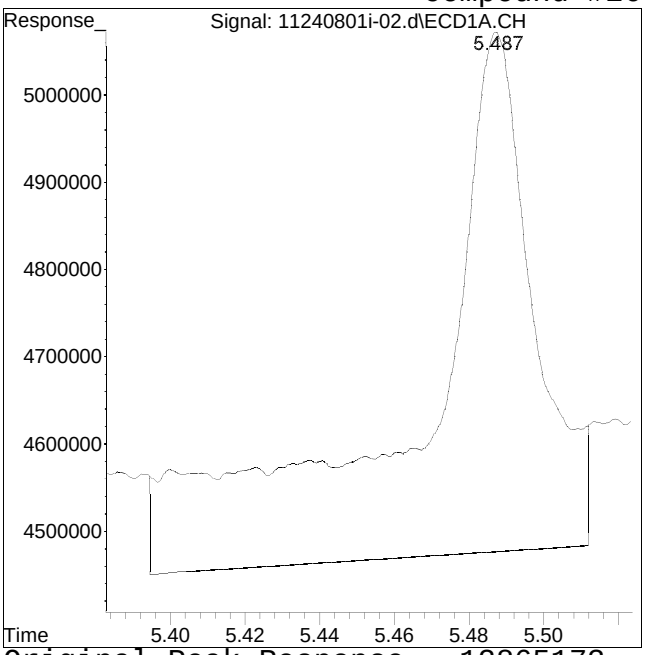
Manual Peak Response = 1047335 M4

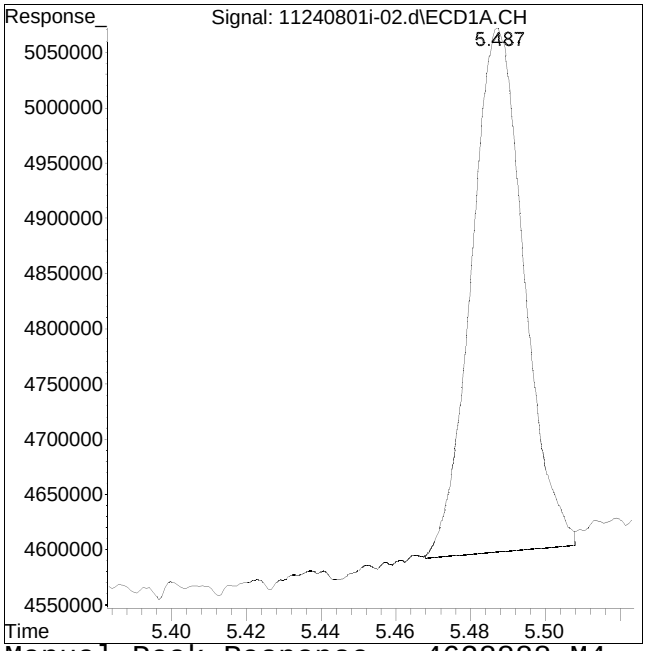
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-02.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:25 Instrument : Pest 11
Sample : pem11240801i-01,42e,,pp 11Quant Date : 8/2/2024 12:30 pm

Compound #26: Endrin Ketone



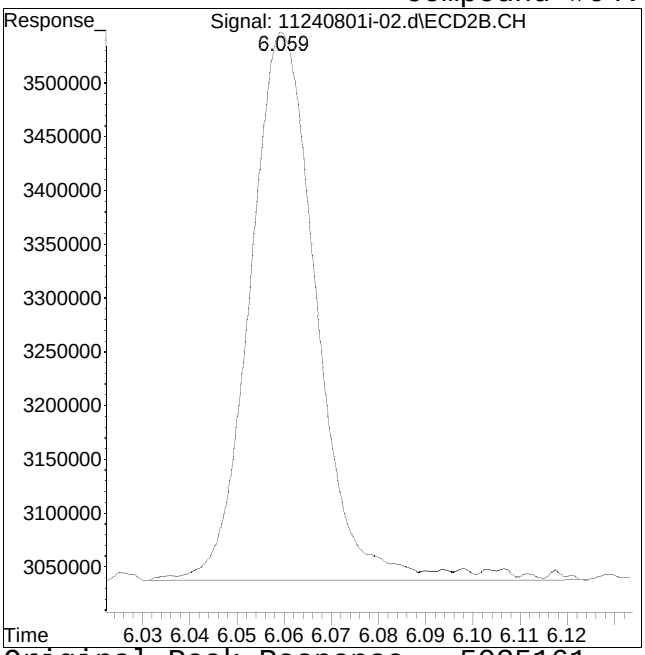


Original Peak Response = 12865173 Manual Peak Response = 4628888 M4
M4 = Poor automated baseline construction.

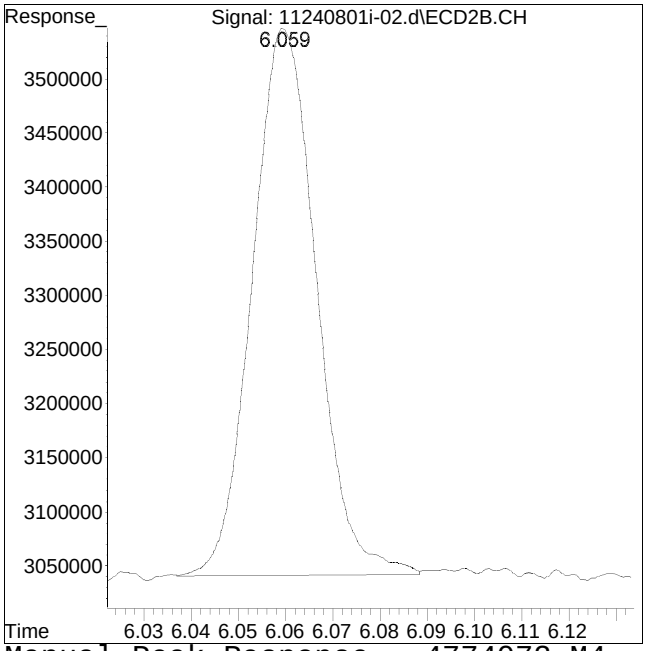
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-02.d
Date Inj'd : 8/1/2024 18:25
Sample : pem11240801i-01,42e,,pp 11
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:30 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 5035161



Manual Peak Response = 4774072 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	220.8E6	175.5E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	2.165	2.556	6465041	6237465	0.527M4	0.587M4
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

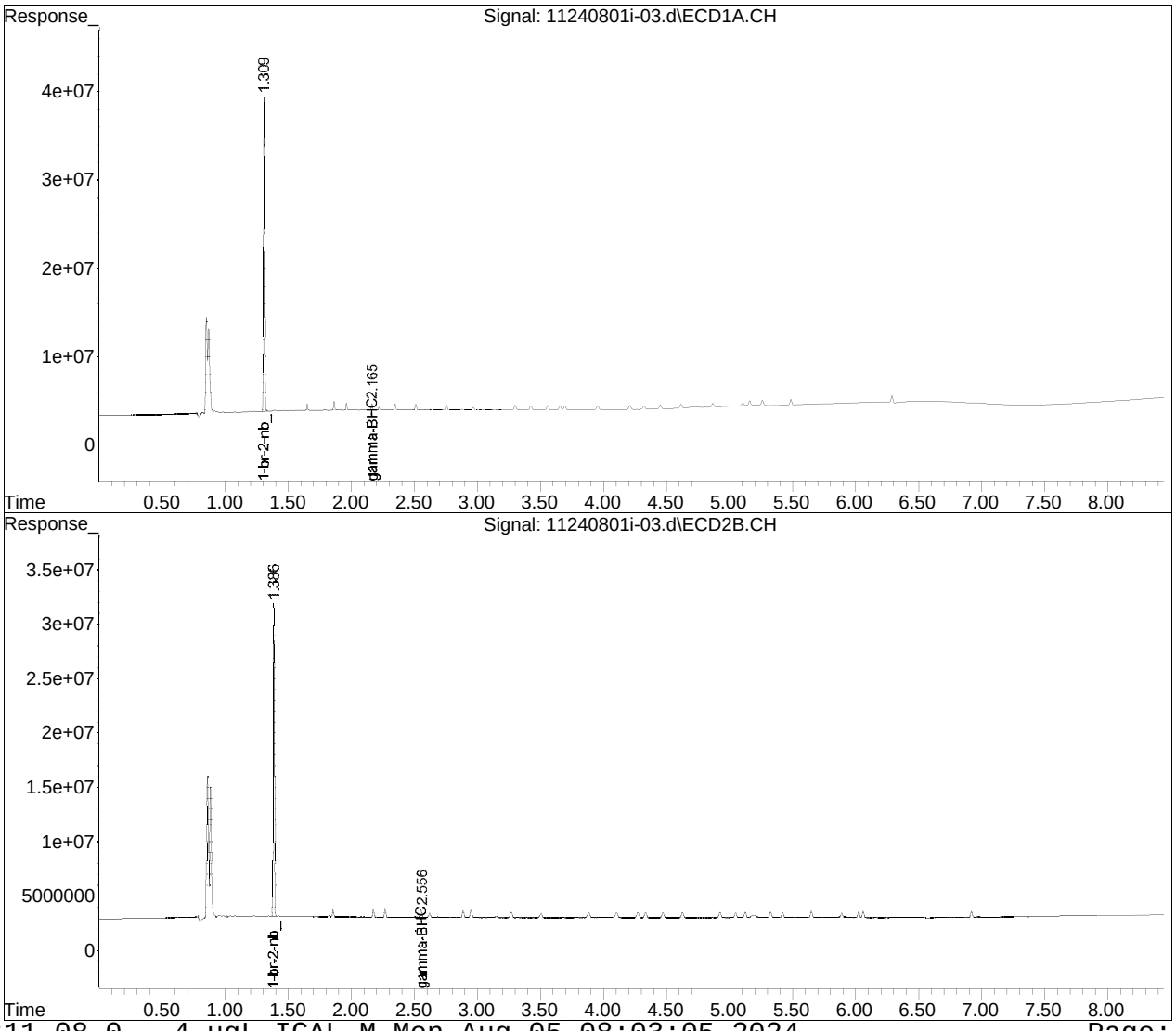
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:37
Operator : PEST11:ejl
Sample : il1pest,42e,,pp 11687 L0.0005
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:37:46 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:37:32 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

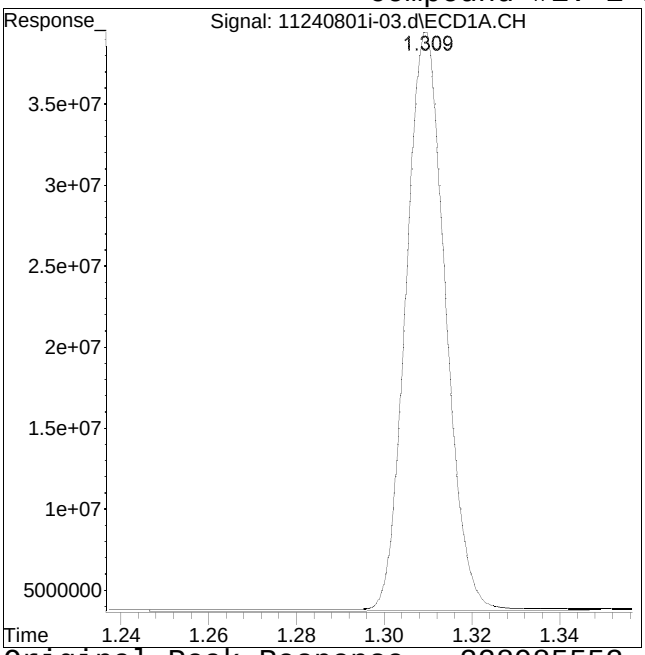
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



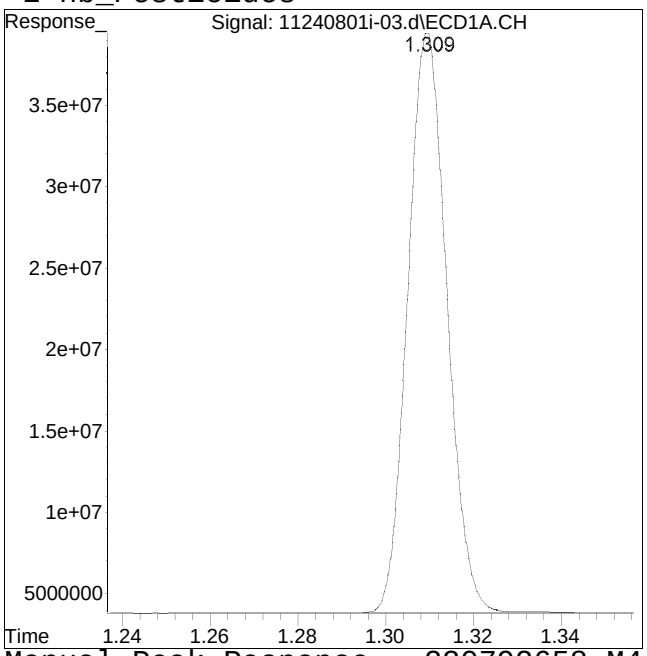
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-03.d
Date Inj'd : 8/1/2024 18:37
Sample : il1pest,42e,,pp 11687 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:37 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 228985553



Manual Peak Response = 220792658 M4

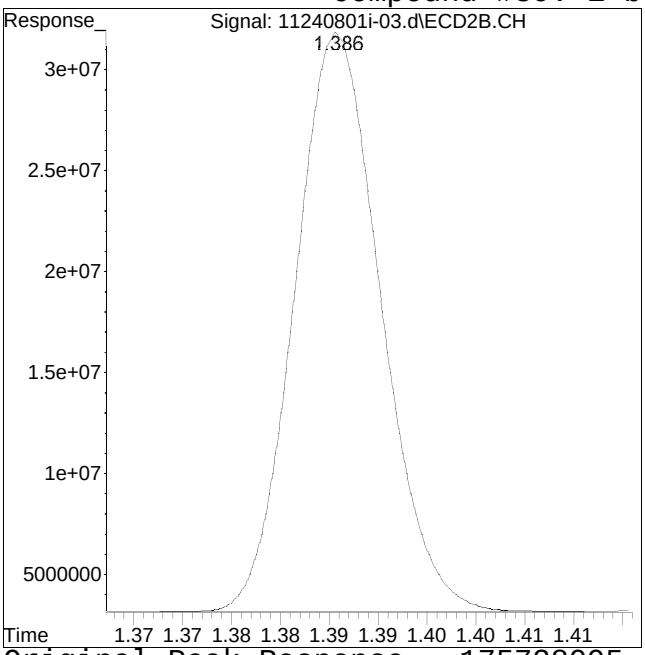
M4 = Poor automated baseline construction.

Manual Integration Report

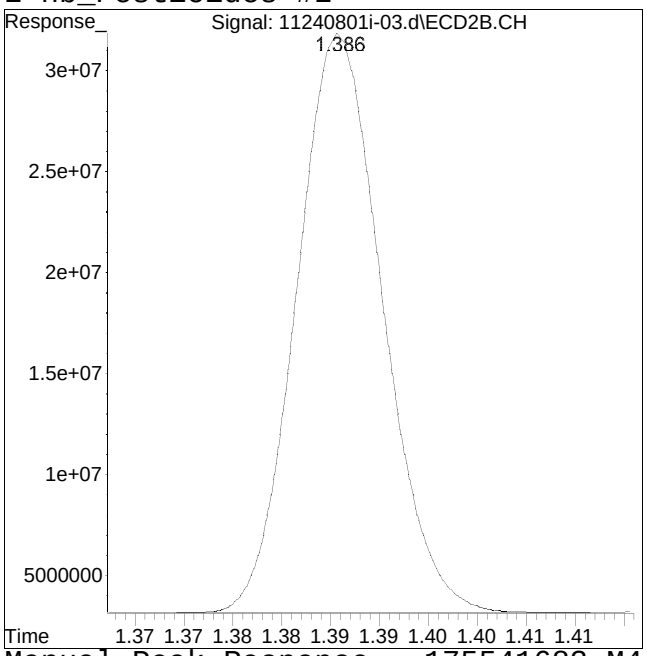
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-03.d
Date Inj'd : 8/1/2024 18:37
Sample : il1pest,42e,,pp 11687 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:37 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 175738995



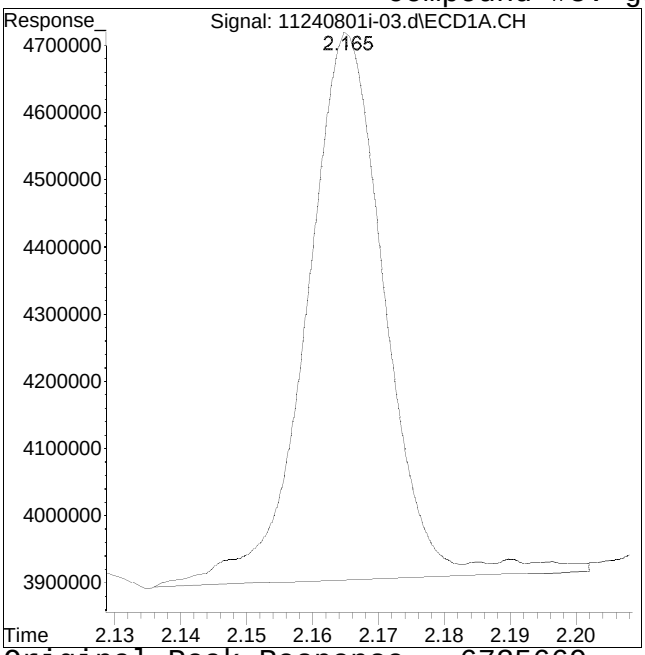
Manual Peak Response = 175541683 M4

M4 = Poor automated baseline construction.

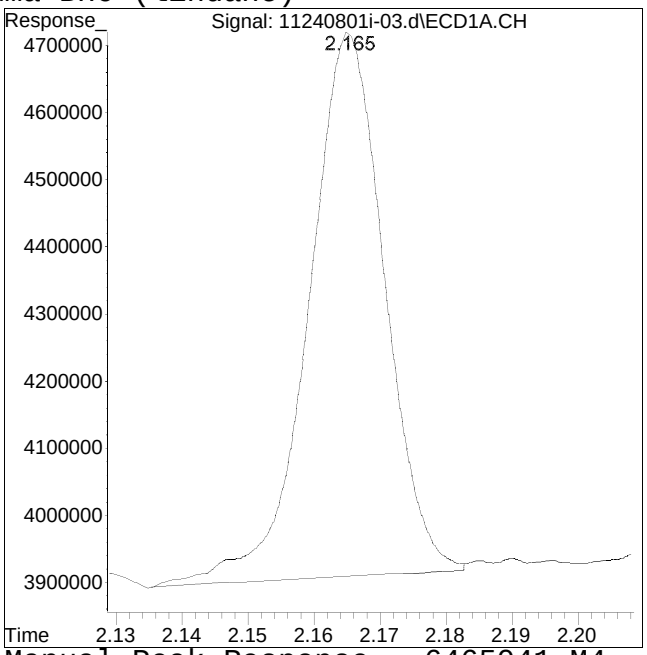
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-03.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:37 Instrument : Pest 11
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 8/2/2024 11:37 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 6735669



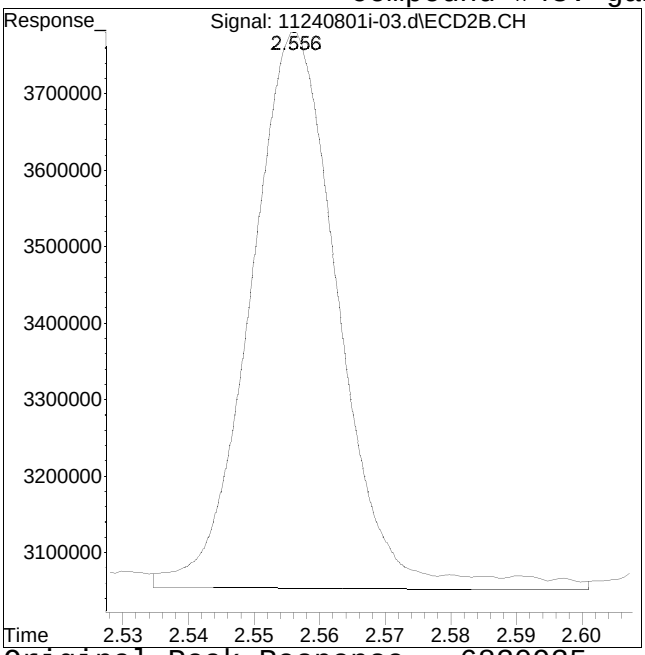
Manual Peak Response = 6465041 M4

M4 = Poor automated baseline construction.

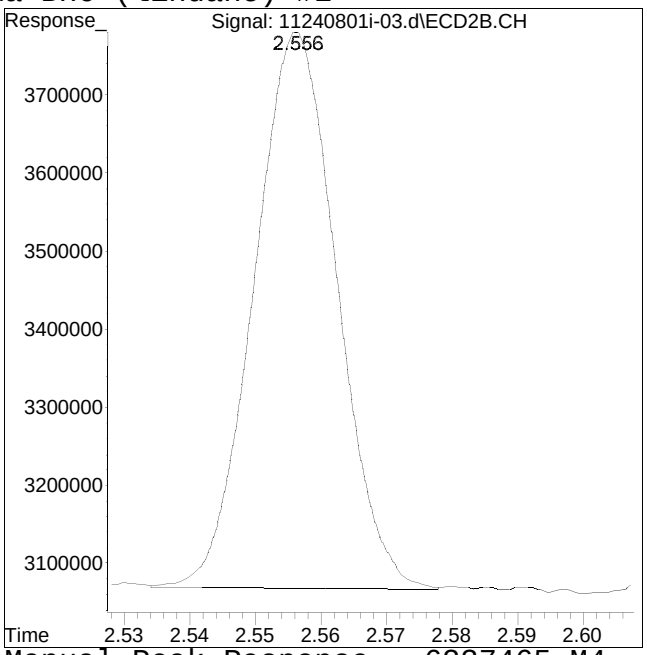
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-03.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:37 Instrument : Pest 11
Sample : il1pest,42e,,pp 11687 L0.0Quant Date : 8/2/2024 11:37 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 6830935



Manual Peak Response = 6237465 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	236.2E6	189.9E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.651	1.857	10103750	9166304	1.033M4	1.095M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.07%#	2.19%#
27) s	Decachlorobi	6.287	6.916	12797286	9509129	1.189M4	1.208M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.38%#	2.42%#
	Target Compounds						
3) t	Hexachlorobe	1.864	2.177	14522616	11025327	1.106M4	1.197M3
4) t	alpha-BHC	1.963	2.270	12213270	11833439	0.873M3	0.957M4
5) t	gamma-BHC (l	2.165	2.555	12327860	11786896	0.933M4	1.029M4
6) t	beta-BHC	2.221	2.622	6284813	6484776	1.068M4	1.227
7) t	delta-BHC	2.349	2.888	11794485	11613870	0.898M4	1.004M4
8) t	Heptachlor	2.512	2.951	12406198	13569126	0.994M4	1.135M4
9) t	Aldrin	2.755	3.270	11094967	11481671	0.947M3	1.060M4
10) t	Alachlor	2.875	3.152	2283039	2193840	1.050M4	1.239M3
11) t	Chlorpyrifos	2.968	3.506	6350609	8645243	1.140M4	1.309M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	11159206	12274465	0.996M4	1.153M4
13)	t	gamma-Chlord	3.424	4.104	10188540	11268731	1.002M4	1.150M3
14)	t	alpha-Chlord	3.558	4.274	11264127	12463945	0.978M4	1.154M4
15)	t	4,4'-DDE	3.655	4.472	10456227	10459964	0.921M4	1.029M4
16)	t	Endosulfan I	3.694	4.335	10476077	11507441	0.993M4	1.157M4
17)	t	Dieldrin	3.954	4.627	10104411	10753372	0.936M4	1.075M4
18)	t	Endrin	4.208	4.925	10369621	10955743	0.947M4	1.080M3
19)	t	4,4'-DDD	4.320	5.049	8095840	8492171	0.916M4	1.035M3
20)	t	Endosulfan I	4.450	5.125	9763069	10359858	0.980M4	1.141M4
21)	t	4,4'-DDT	4.615	5.326	9158338	9826532	0.906M4	1.039M4
22)	t	Endrin Aldeh	4.868	5.421	8559160	8781210	1.025M3	1.158M4
23)	t	Methoxychlor	5.103	5.890	6198489	6445389	1.124M3	1.236M4
24)	t	Mirex	5.159	6.023	10519898	10310168	1.188M3	1.296M4
25)	t	Endosulfan S	5.260	5.649	10237086	10496074	1.083M3	1.175M4
26)	t	Endrin Keton	5.486	6.060	11019089	10468738	0.984M4	1.106M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

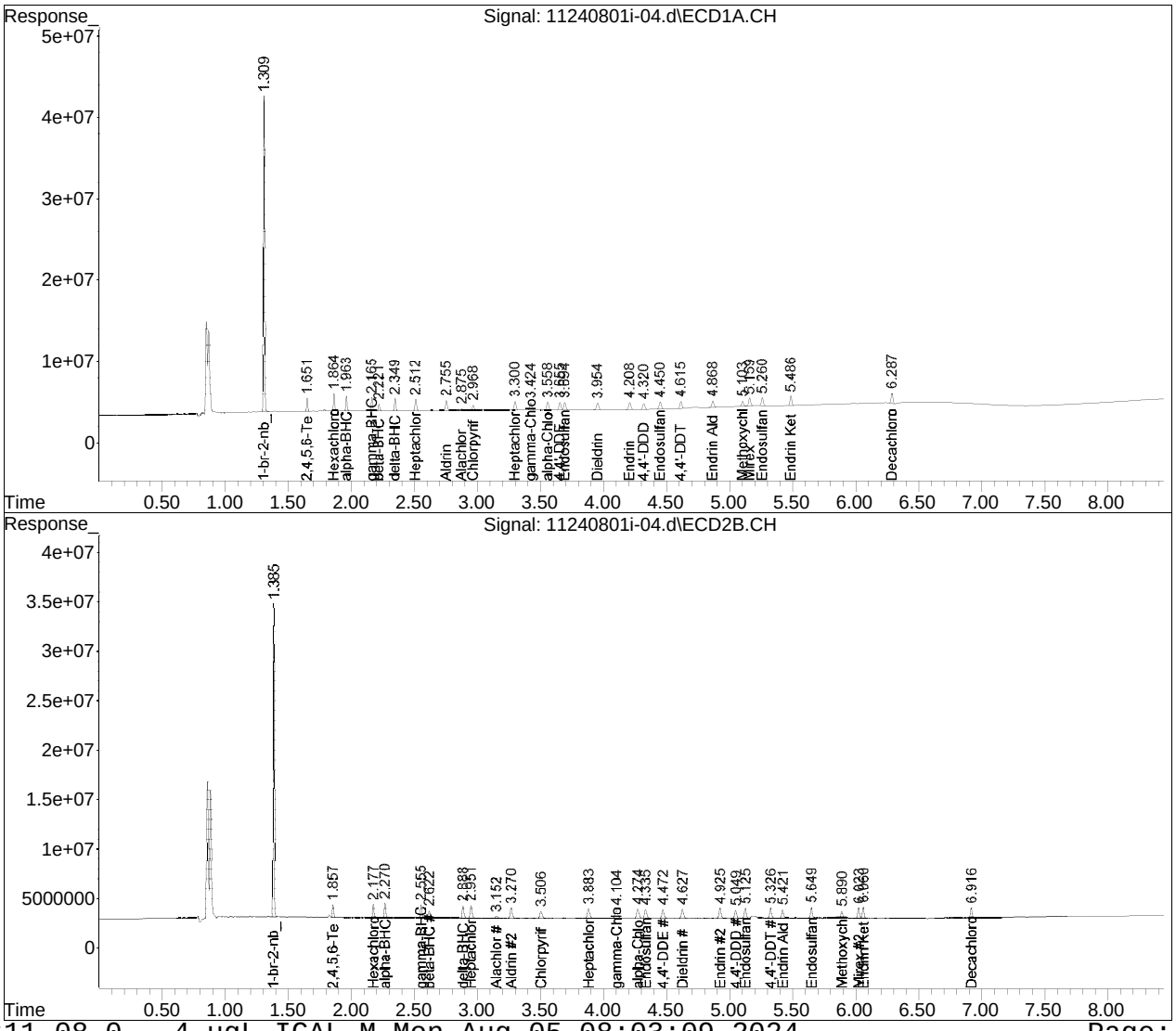
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 18:49
Operator : PEST11:ejl
Sample : il2pest,42e,,pp 11686 L0.001
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:23:45 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:23:36 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

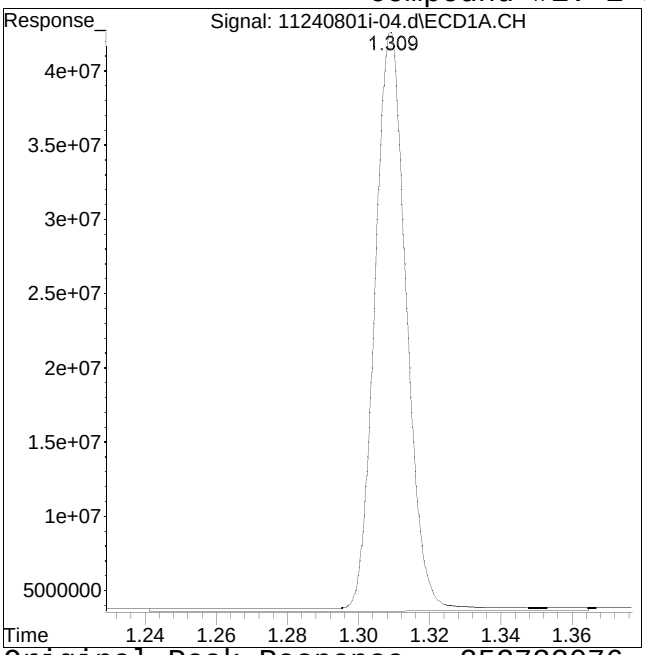


Manual Integration Report

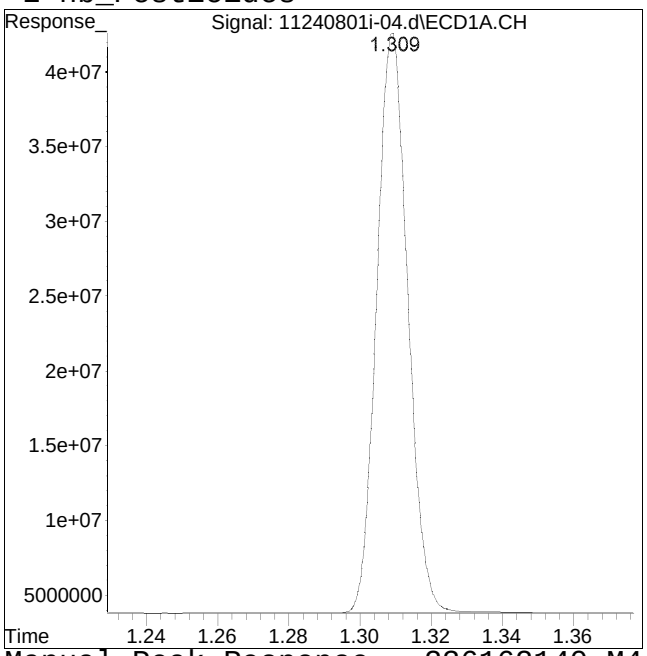
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 252732076



Manual Peak Response = 236162140 M4

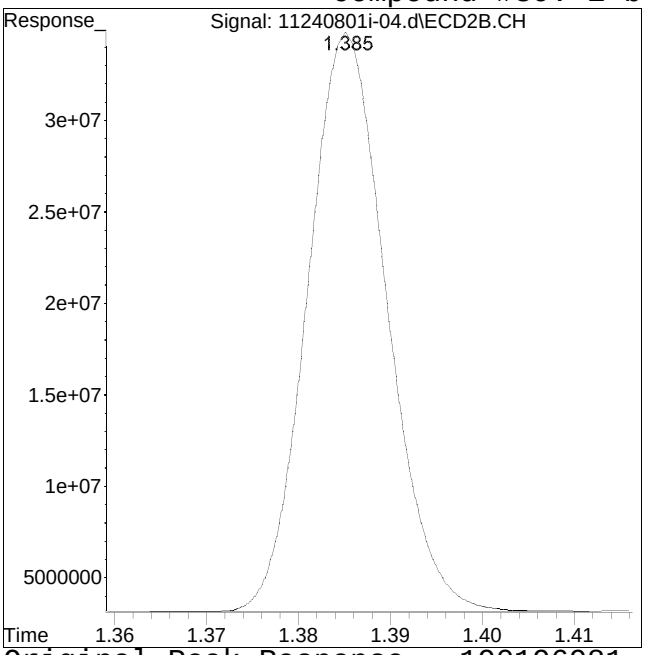
M4 = Poor automated baseline construction.

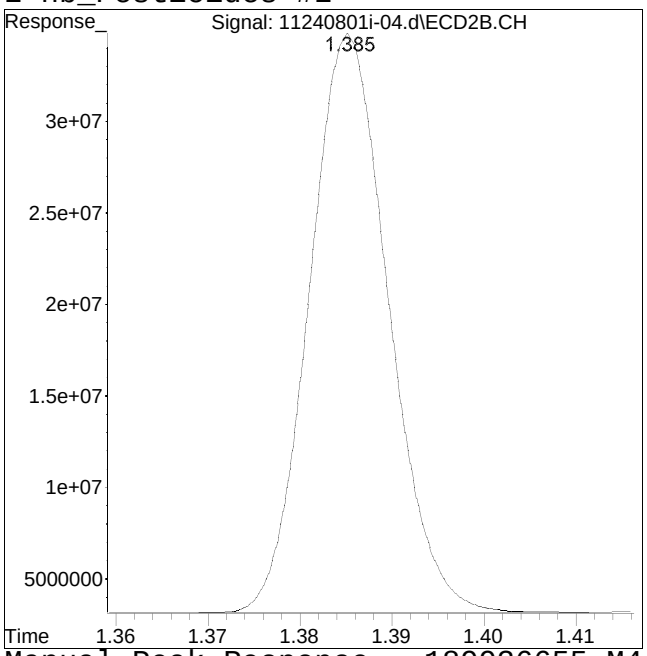
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #39: 1-br-2-nb_Pesticides #2



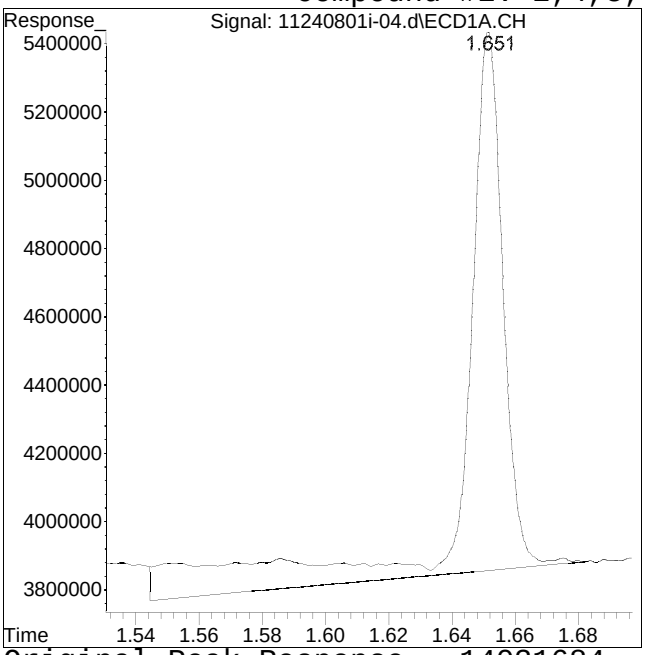


Original Peak Response = 190196981 Manual Peak Response = 189936655 M4
M4 = Poor automated baseline construction.

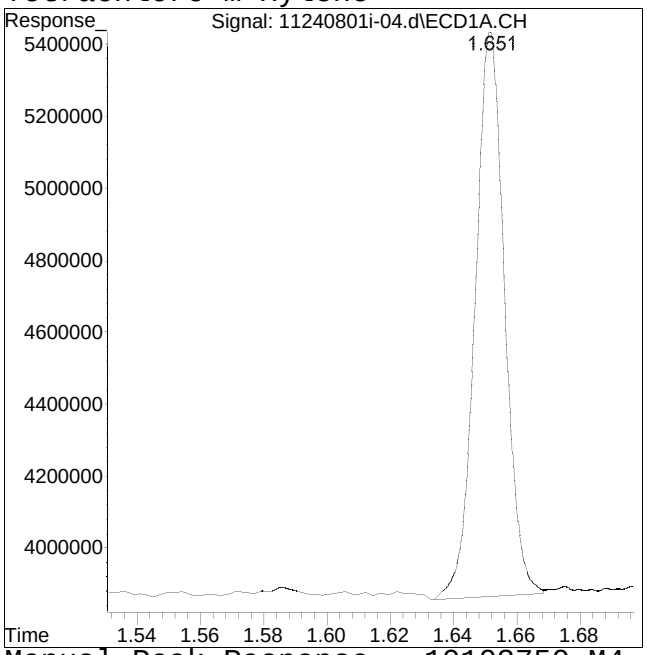
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 14031684



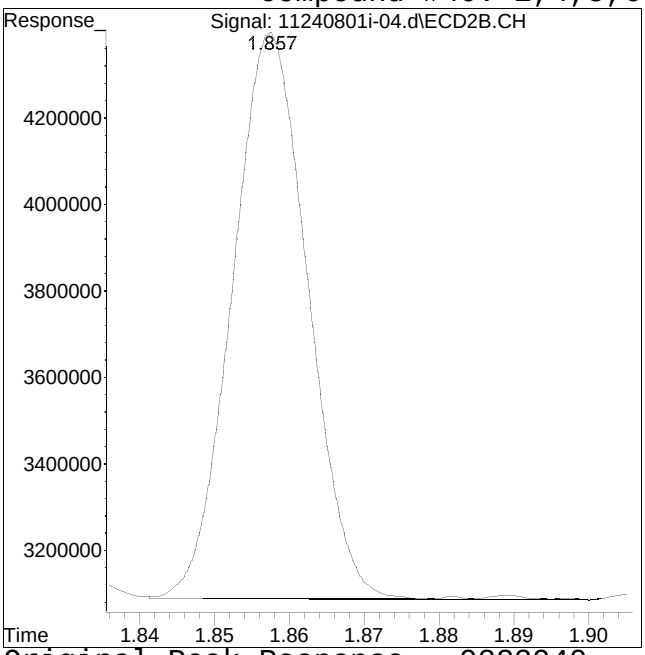
Manual Peak Response = 10103750 M4

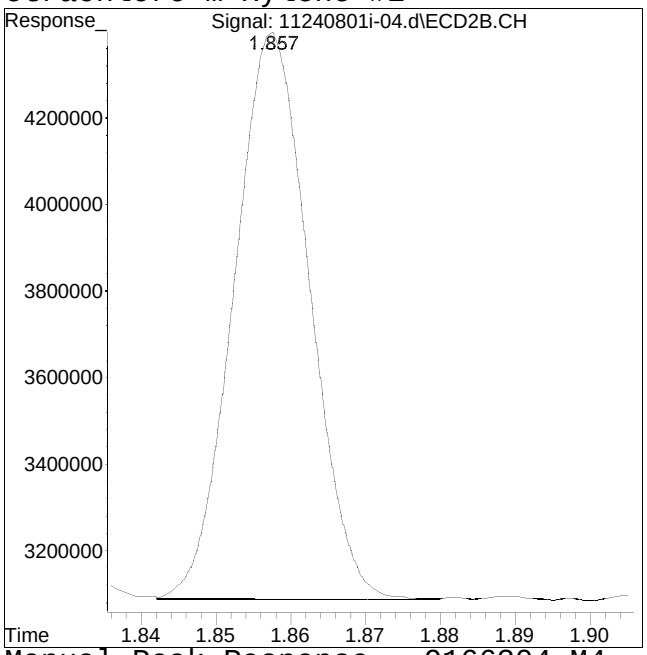
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





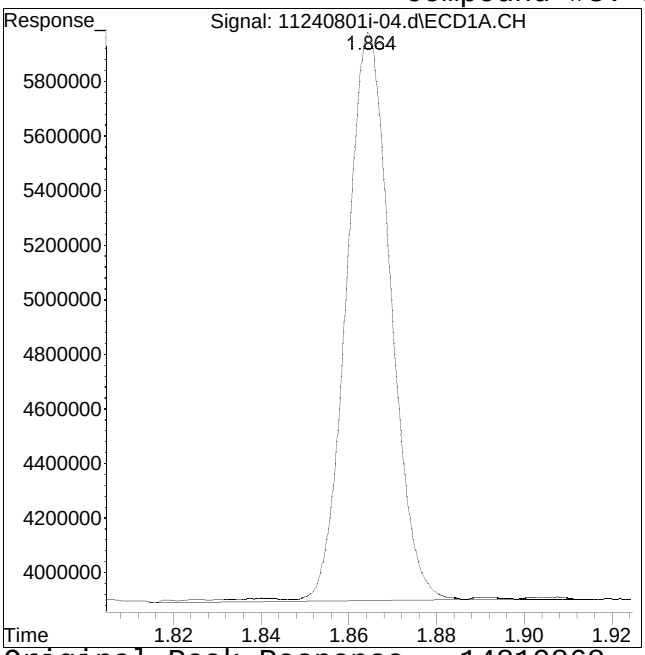
Original Peak Response = 9223940 Manual Peak Response = 9166304 M4
M4 = Poor automated baseline construction.

Manual Integration Report

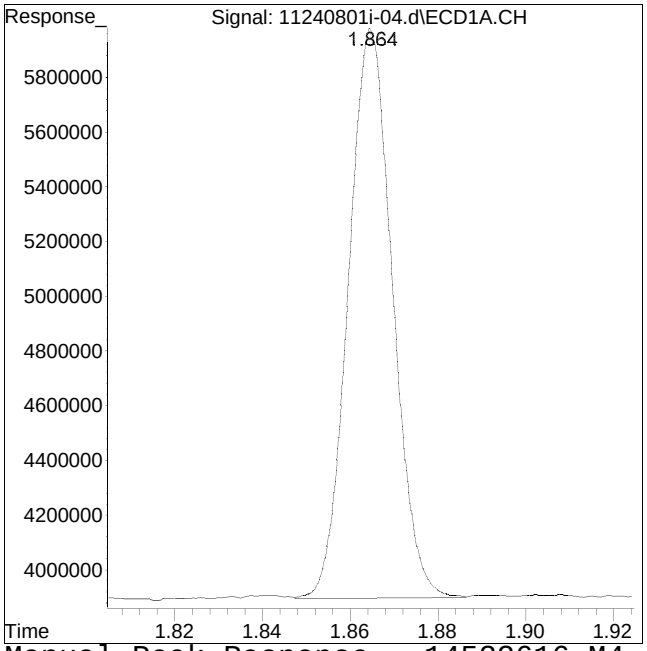
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #3: Hexachlorobenzene



Original Peak Response = 14810868



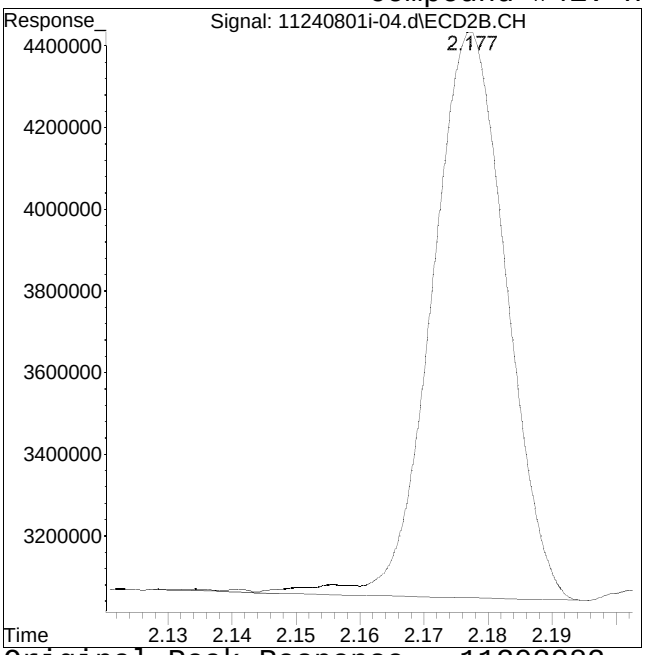
Manual Peak Response = 14522616 M4

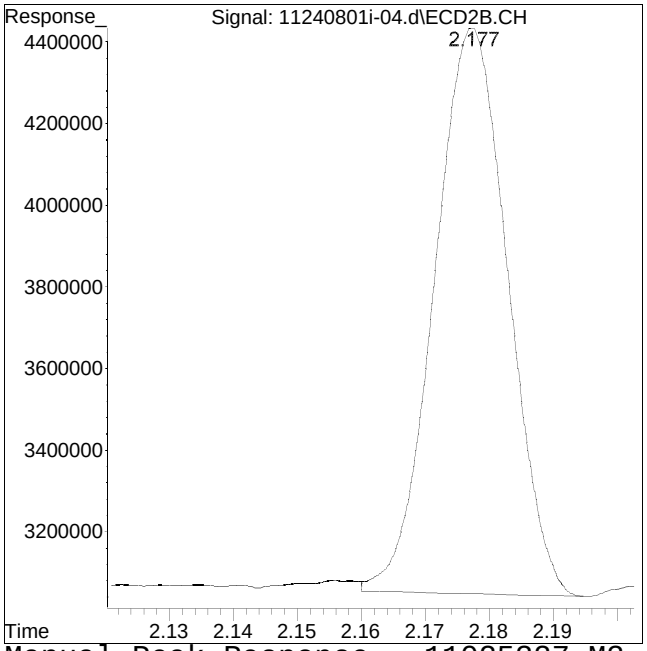
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0 Quant Date : 8/2/2024 11:23 am

Compound #41: Hexachlorobenzene #2



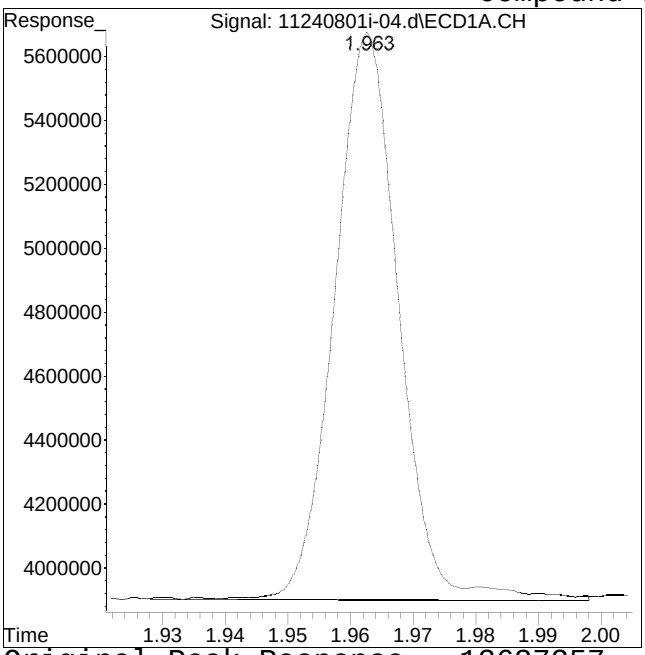


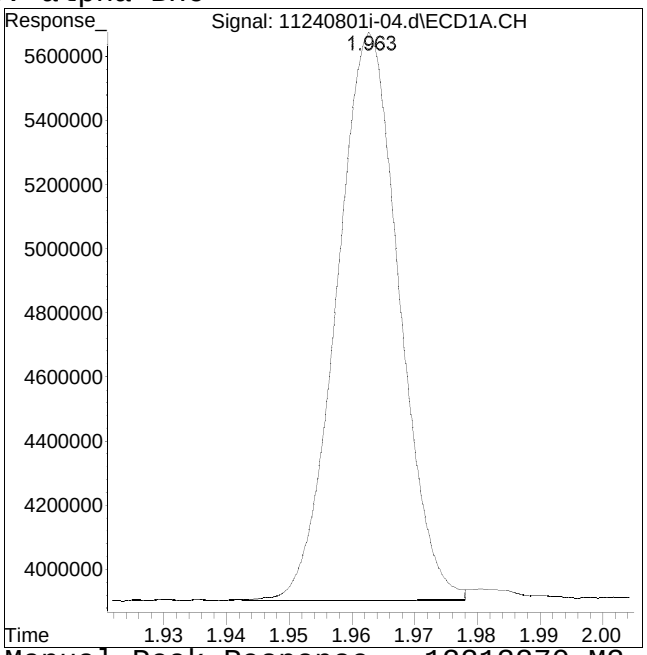
Original Peak Response = 11202282 Manual Peak Response = 11025327 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #4: alpha-BHC



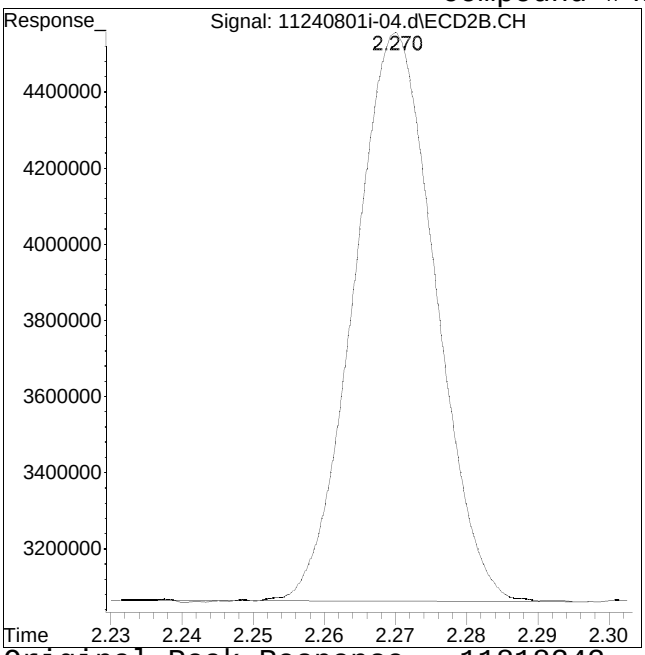


Original Peak Response = 12637257 Manual Peak Response = 12213270 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

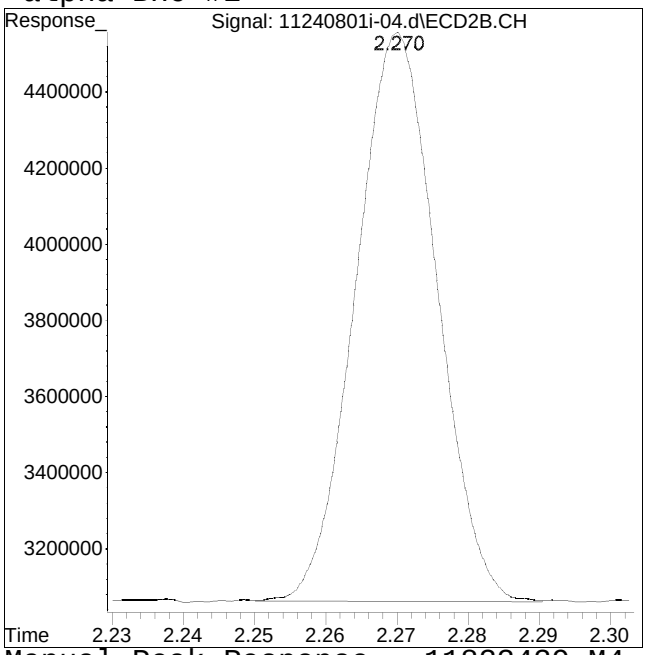
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #42: alpha-BHC #2



Original Peak Response = 11818242



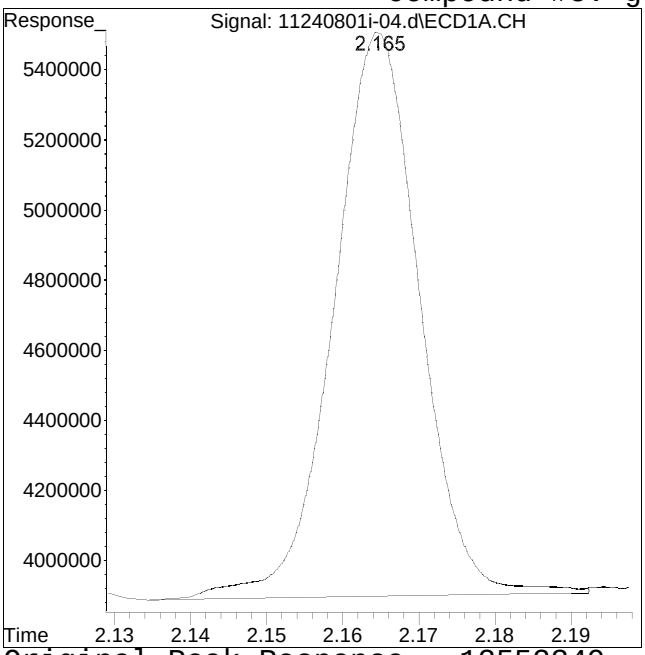
Manual Peak Response = 11833439 M4

M4 = Poor automated baseline construction.

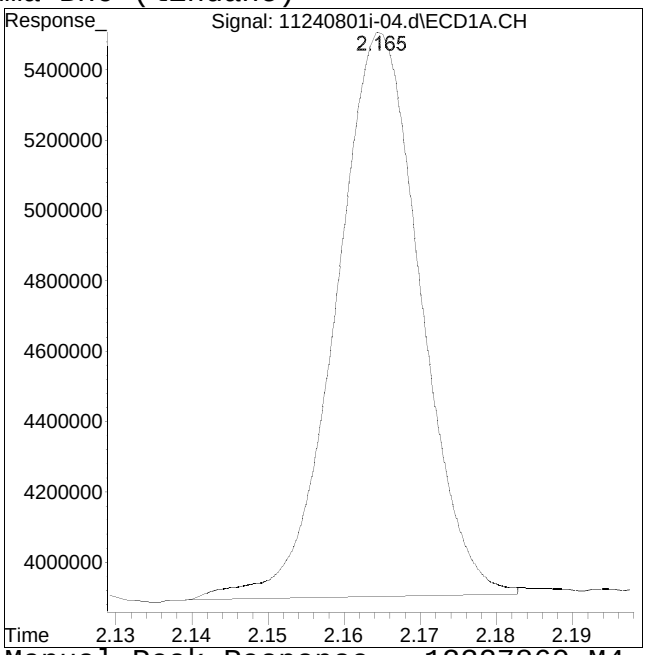
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 12552349



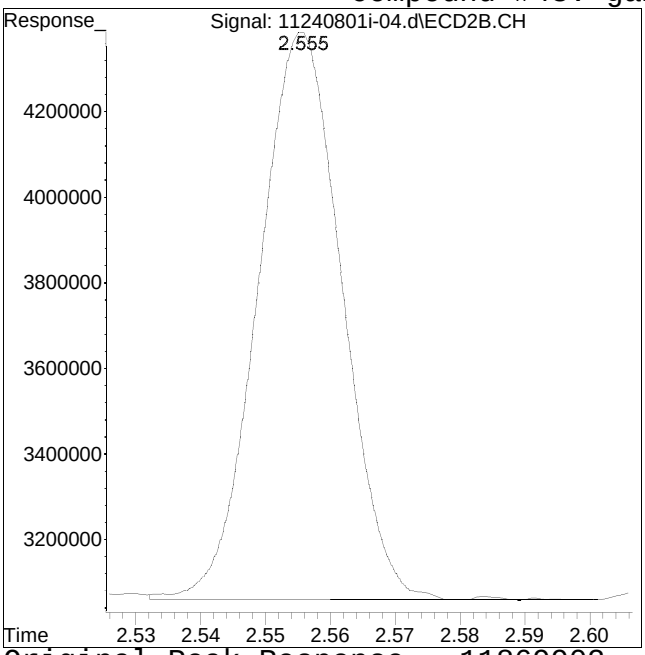
Manual Peak Response = 12327860 M4
M4 = Poor automated baseline construction.

Manual Integration Report

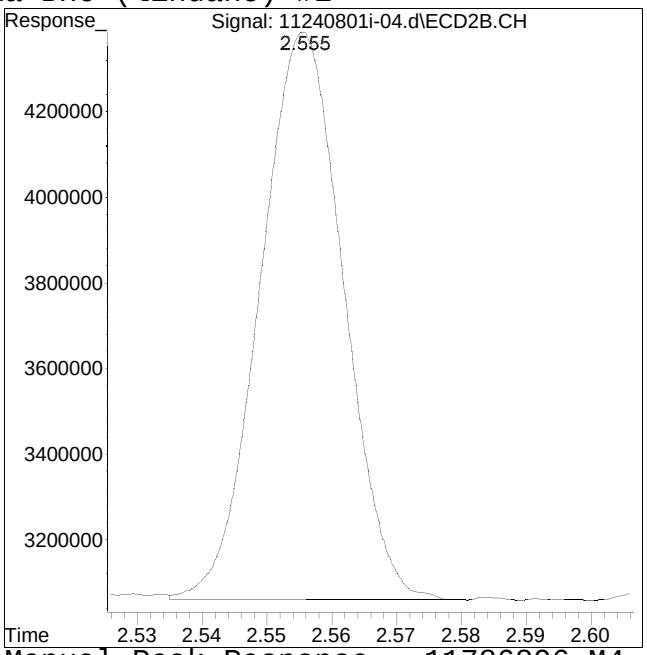
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 11869902



Manual Peak Response = 11786896 M4

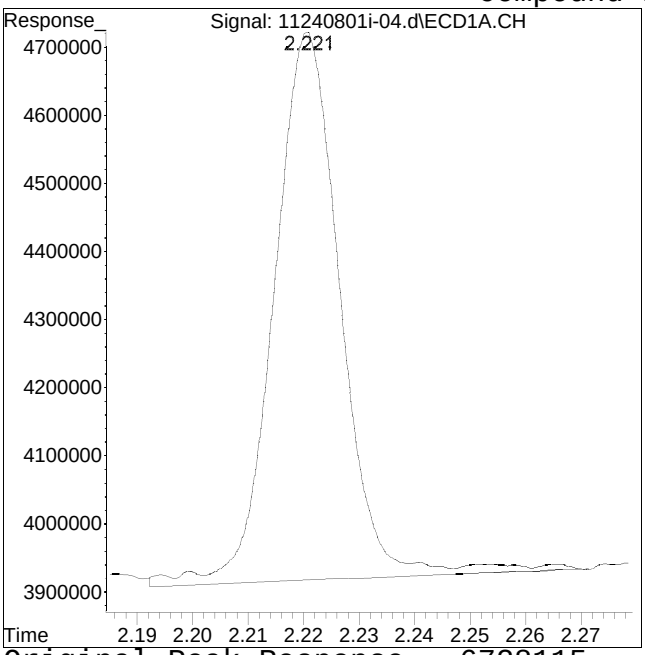
M4 = Poor automated baseline construction.

Manual Integration Report

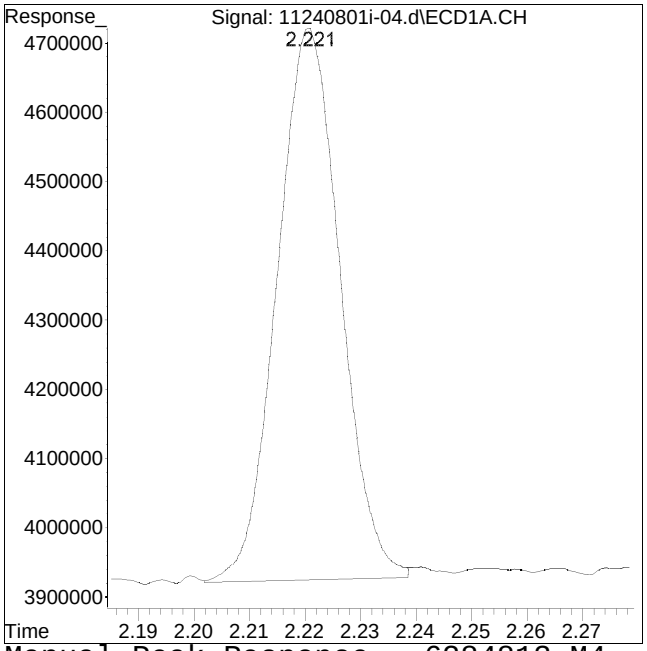
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #6: beta-BHC



Original Peak Response = 6728115



Manual Peak Response = 6284813 M4

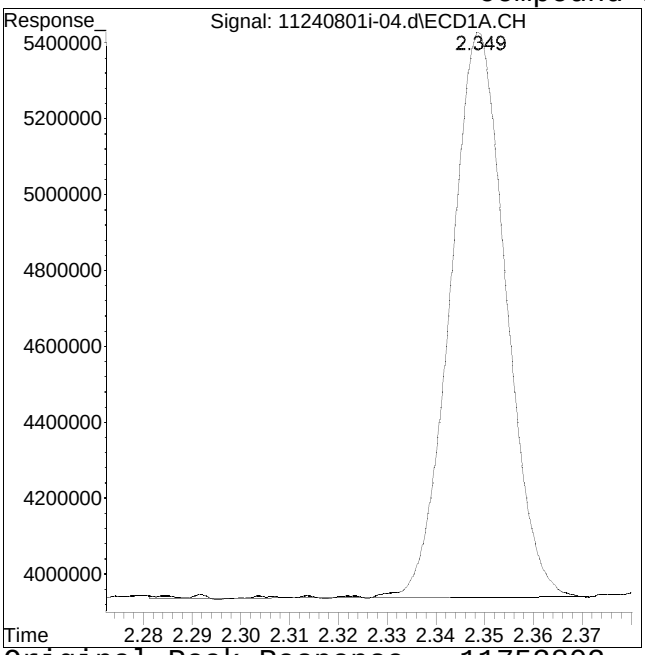
M4 = Poor automated baseline construction.

Manual Integration Report

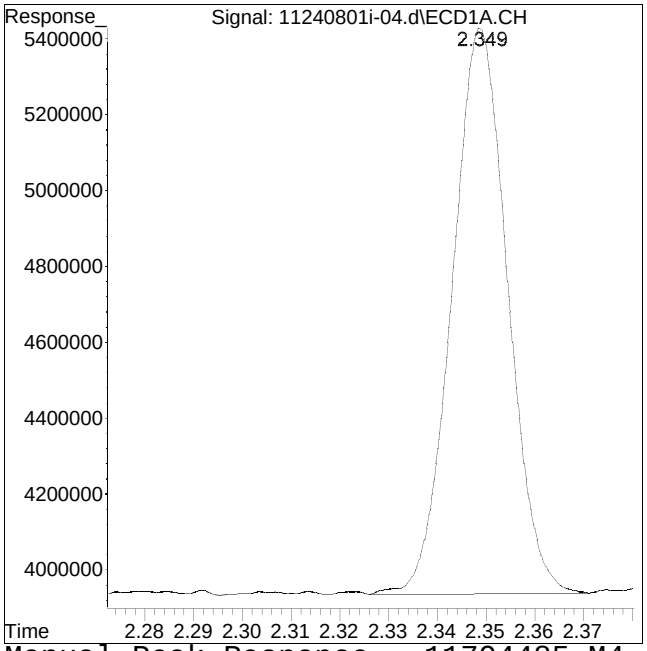
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #7: delta-BHC



Original Peak Response = 11753802



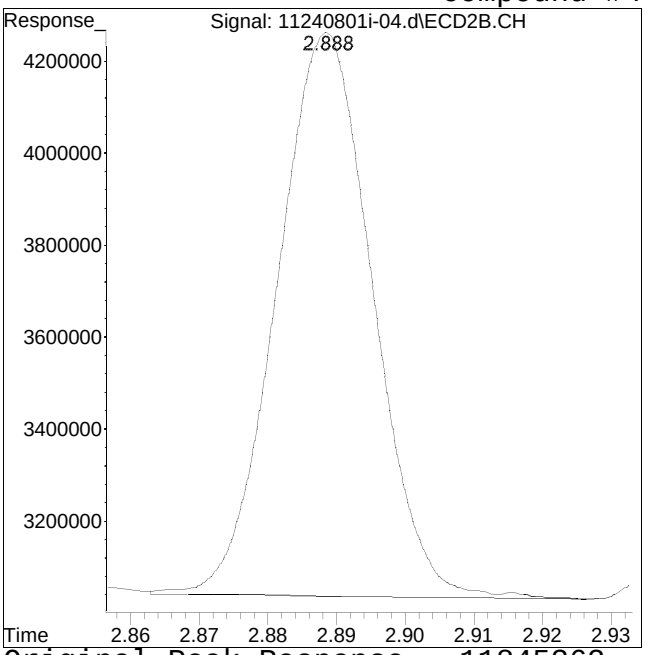
Manual Peak Response = 11794485 M4

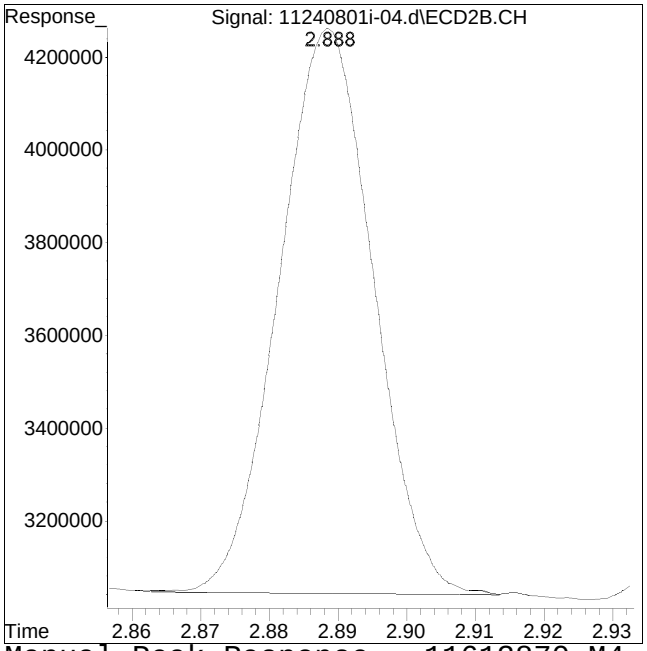
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #45: delta-BHC #2



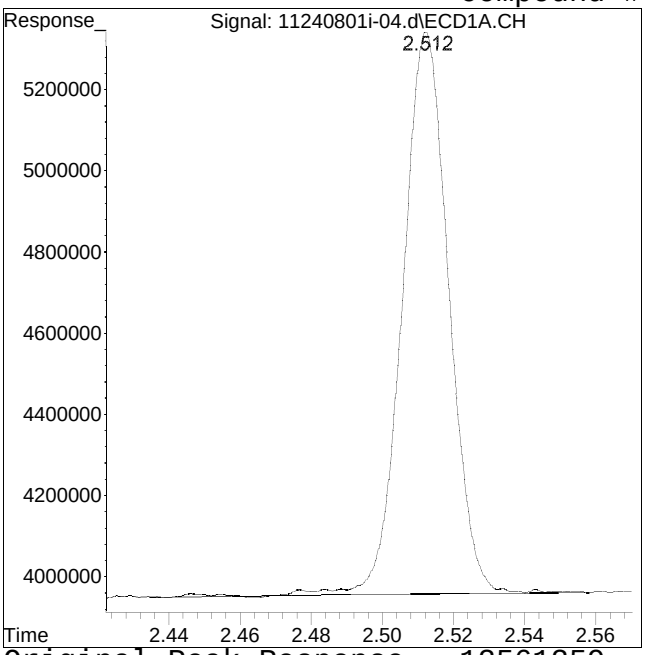


Original Peak Response = 11845362 Manual Peak Response = 11613870 M4
M4 = Poor automated baseline construction.

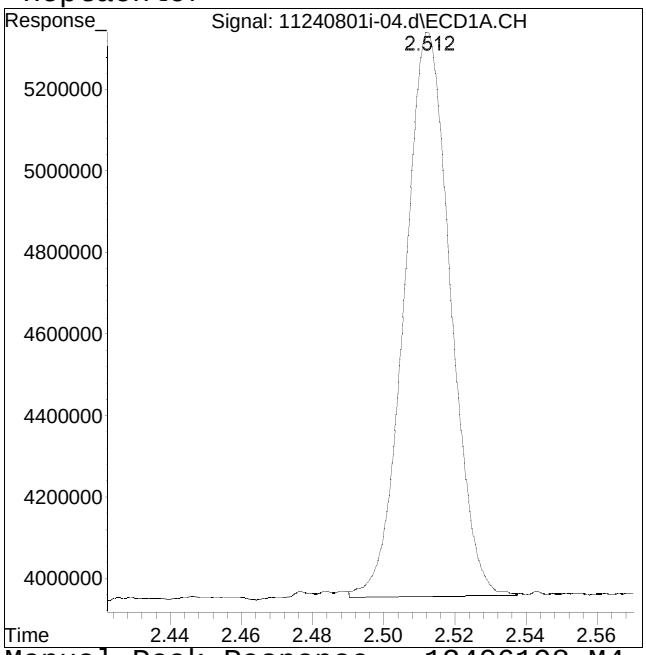
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #8: Heptachlor



Original Peak Response = 12561259



Manual Peak Response = 12406198 M4

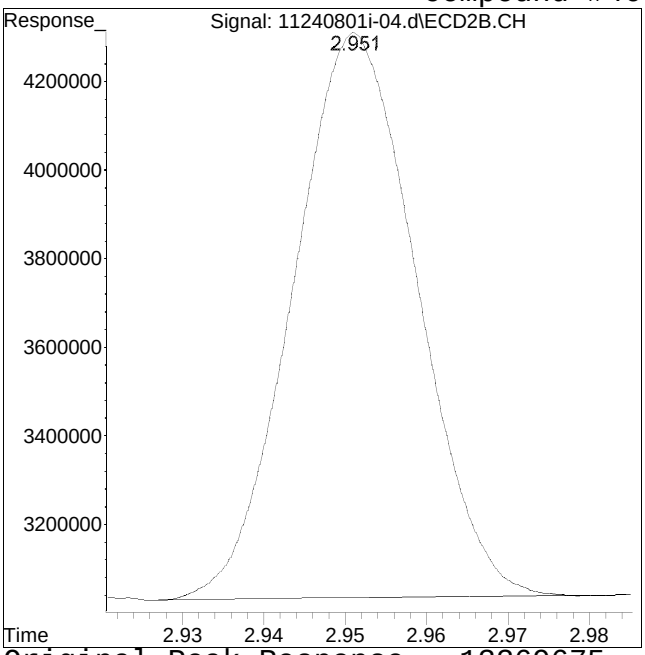
M4 = Poor automated baseline construction.

Manual Integration Report

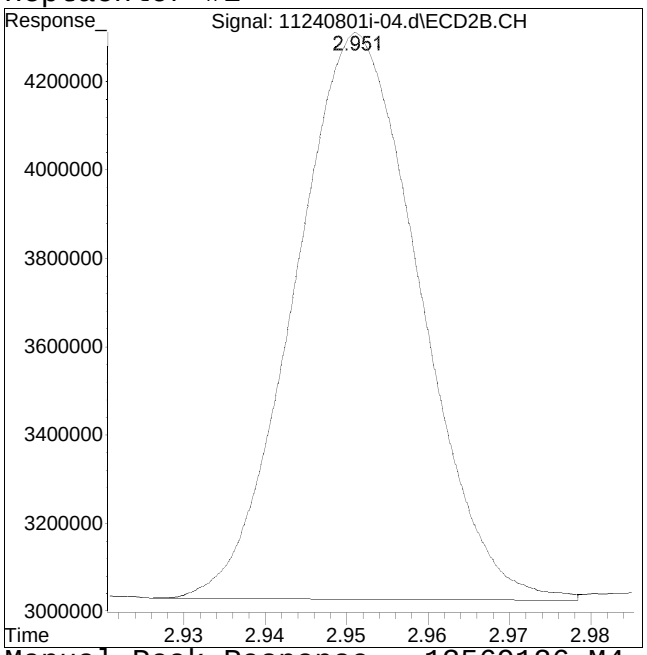
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #46: Heptachlor #2



Original Peak Response = 13369675



Manual Peak Response = 13569126 M4

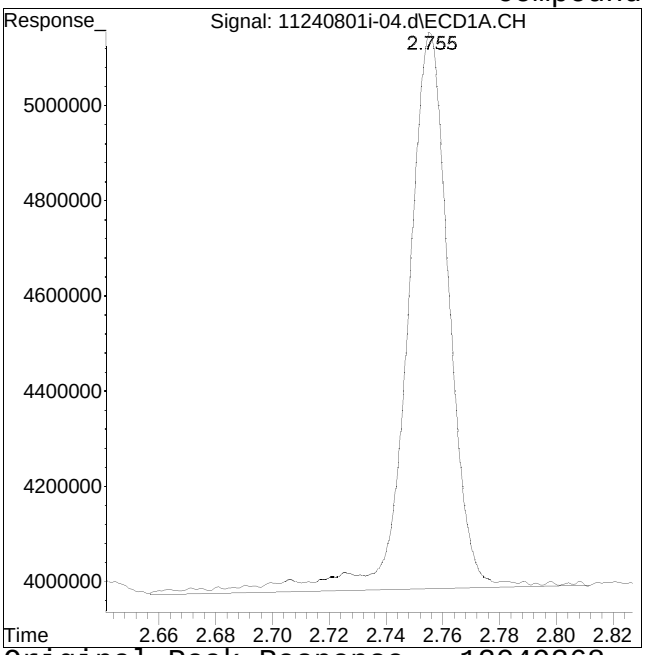
M4 = Poor automated baseline construction.

Manual Integration Report

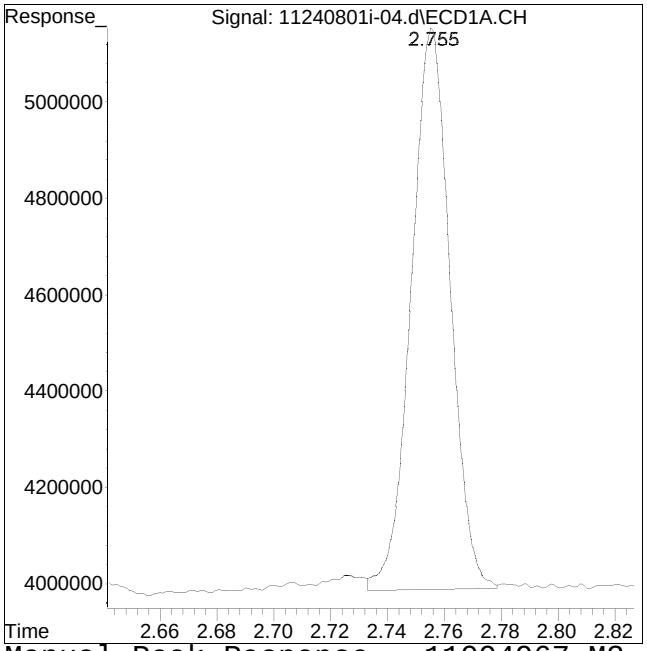
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #9: Aldrin



Original Peak Response = 12049368



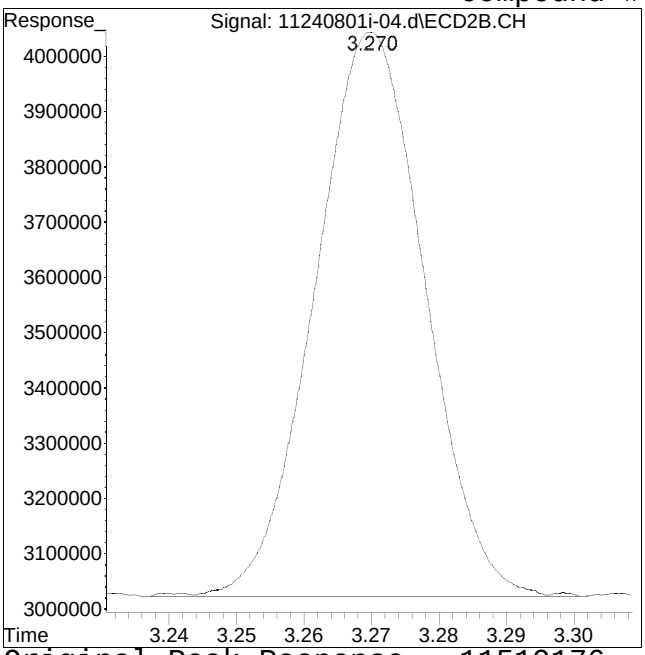
Manual Peak Response = 11094967 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

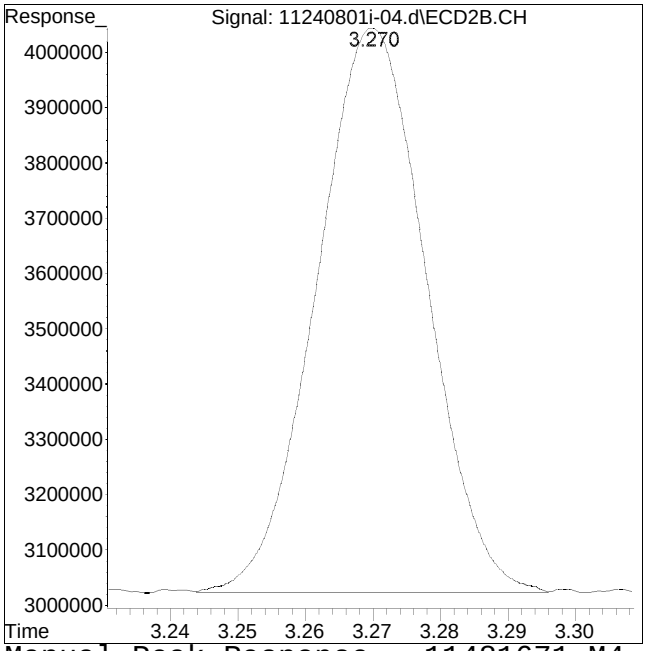
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #47: Aldrin #2



Original Peak Response = 11519176



Manual Peak Response = 11481671 M4

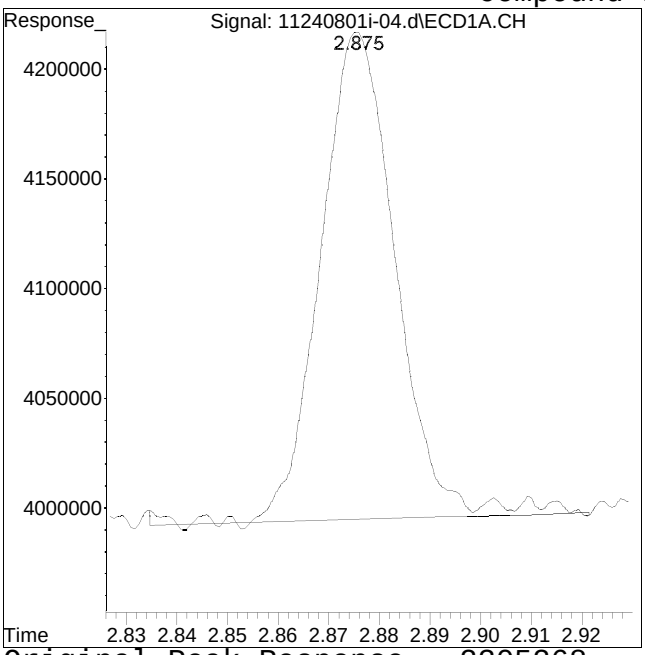
M4 = Poor automated baseline construction.

Manual Integration Report

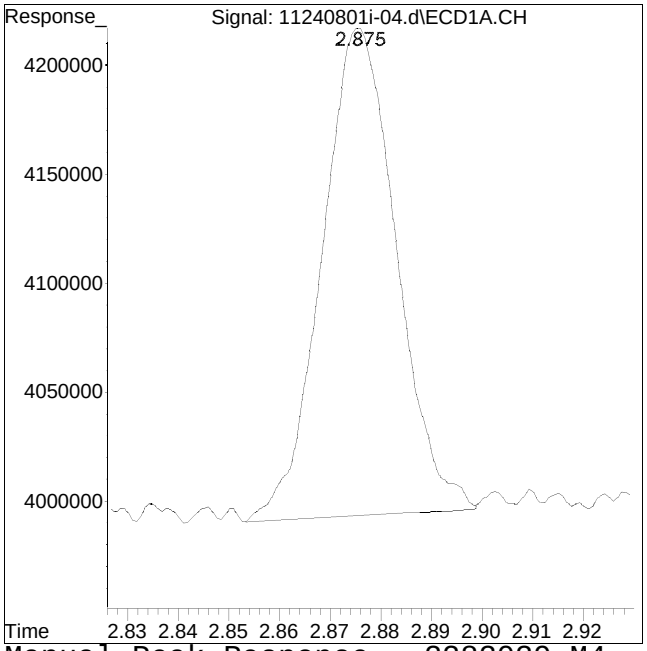
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #10: Alachlor



Original Peak Response = 2305268



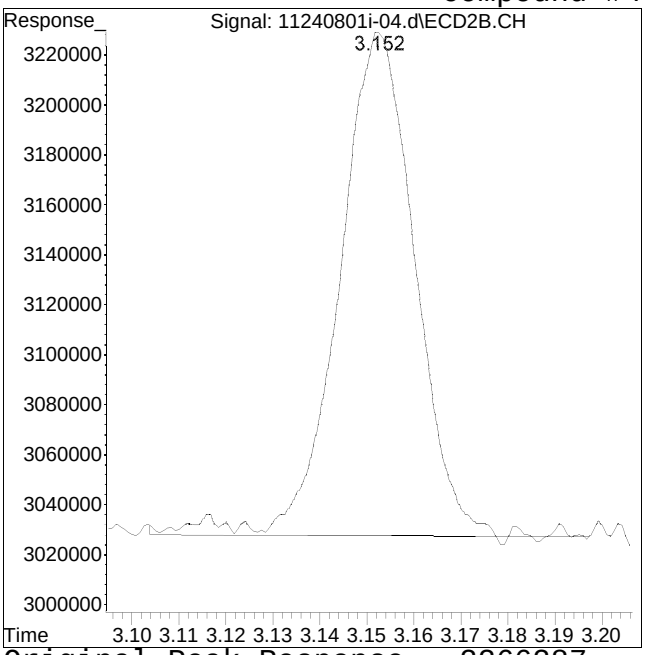
Manual Peak Response = 2283039 M4

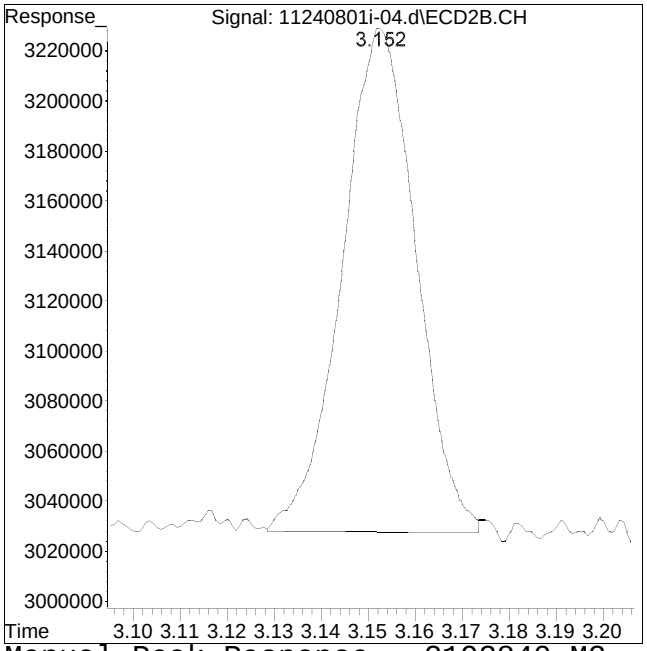
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #48: Alachlor #2





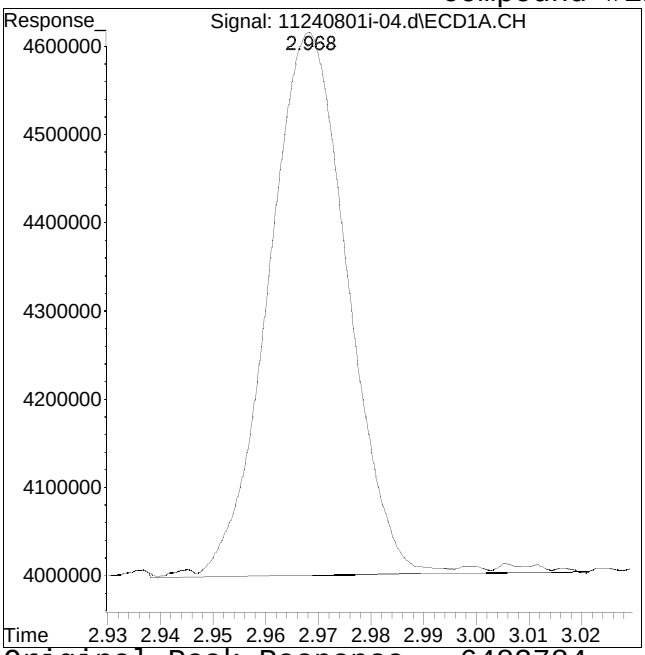
Original Peak Response = 2266287 Manual Peak Response = 2193840 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

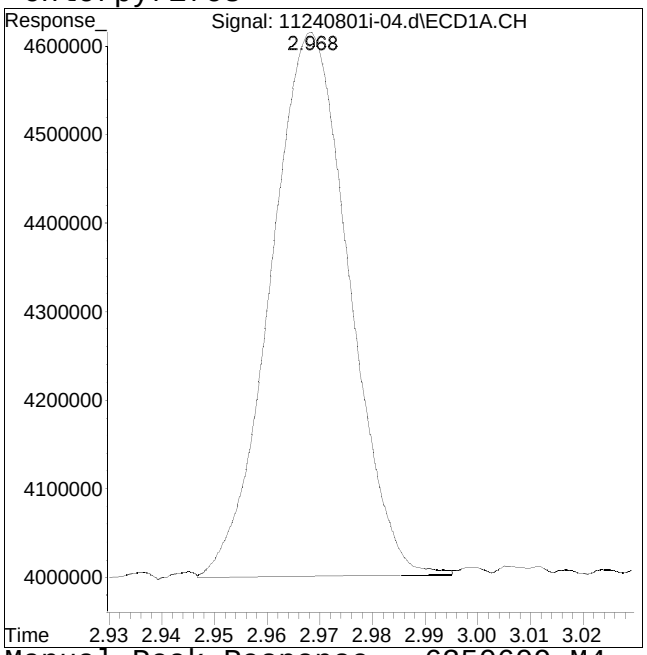
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #11: Chlorpyrifos



Original Peak Response = 6483784



Manual Peak Response = 6350609 M4

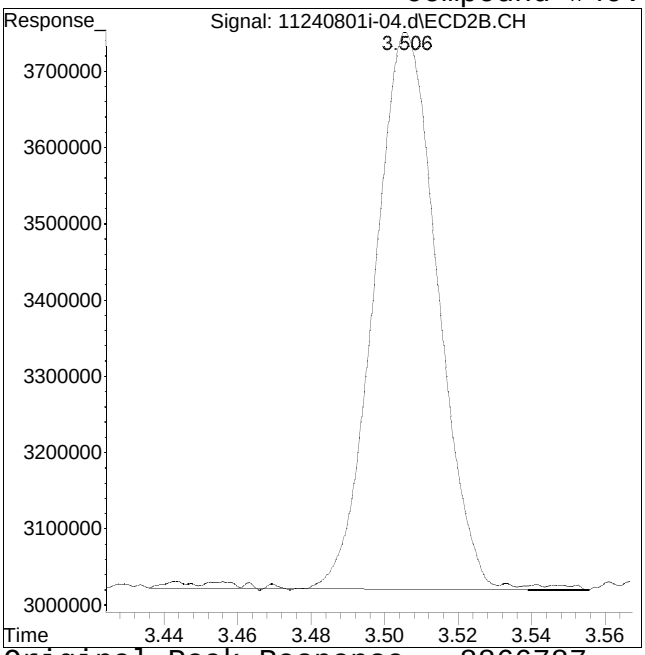
M4 = Poor automated baseline construction.

Manual Integration Report

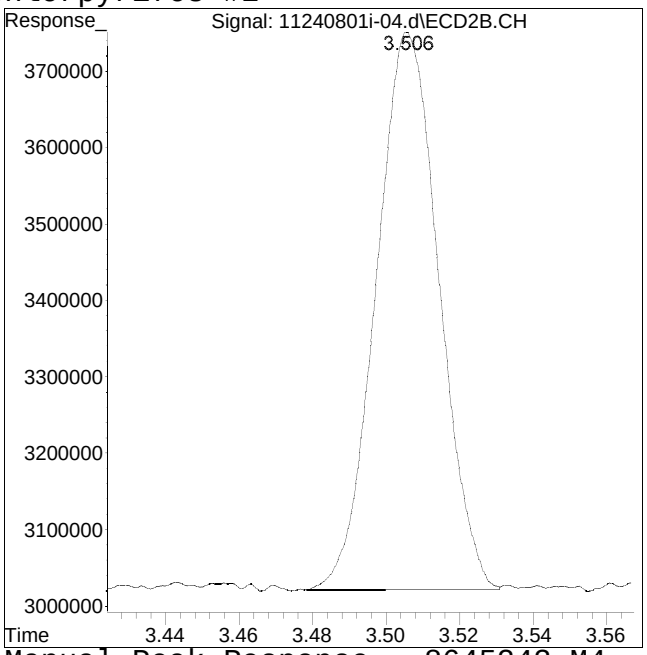
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 8866787



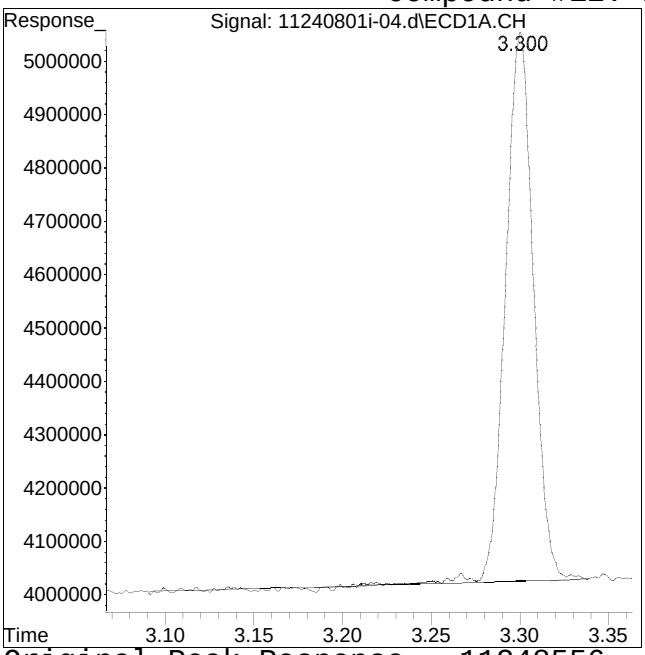
Manual Peak Response = 8645243 M4

M4 = Poor automated baseline construction.

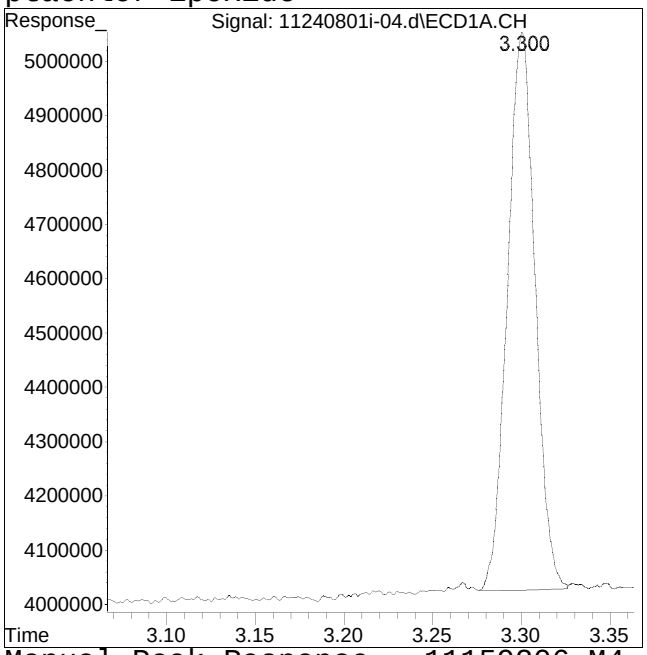
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 11248556



Manual Peak Response = 11159206 M4

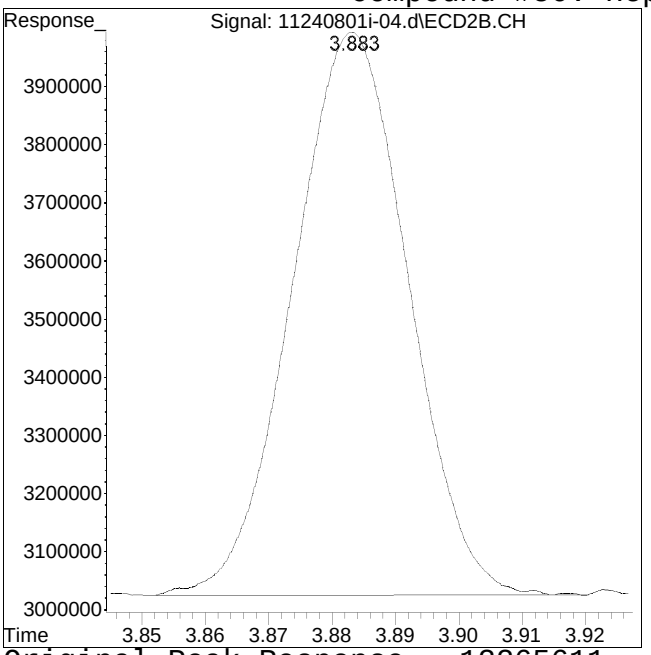
M4 = Poor automated baseline construction.

Manual Integration Report

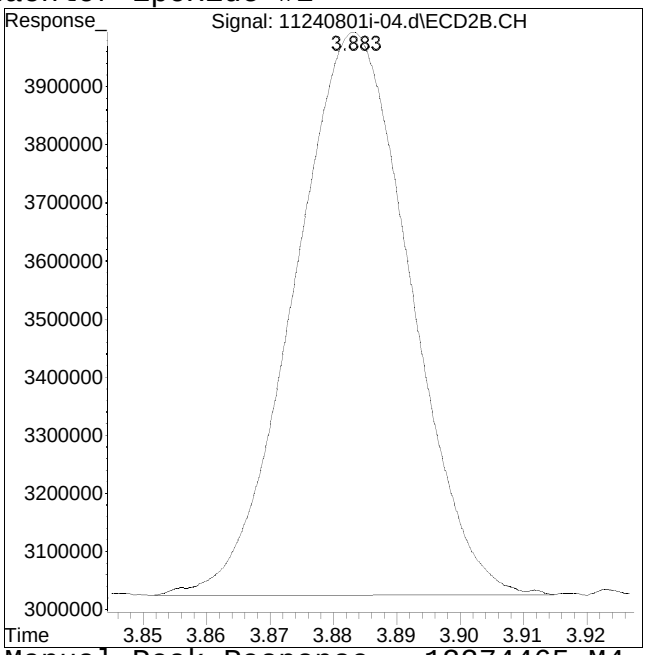
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 12265611



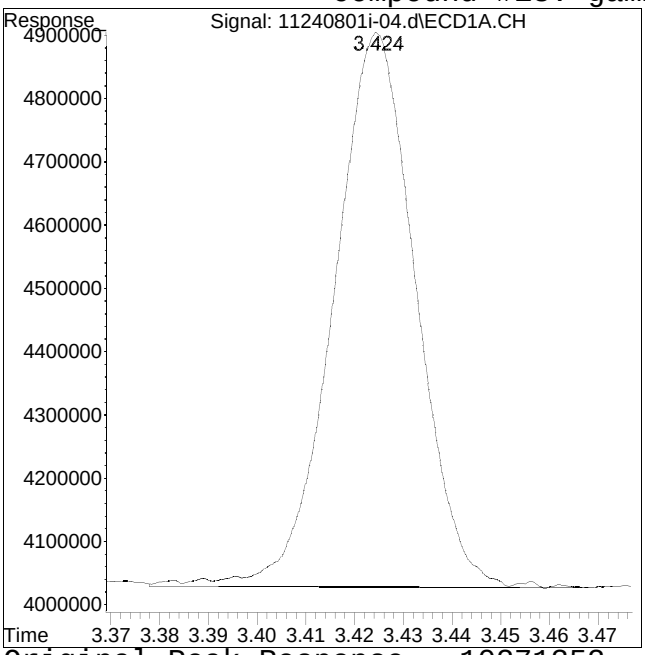
Manual Peak Response = 12274465 M4

M4 = Poor automated baseline construction.

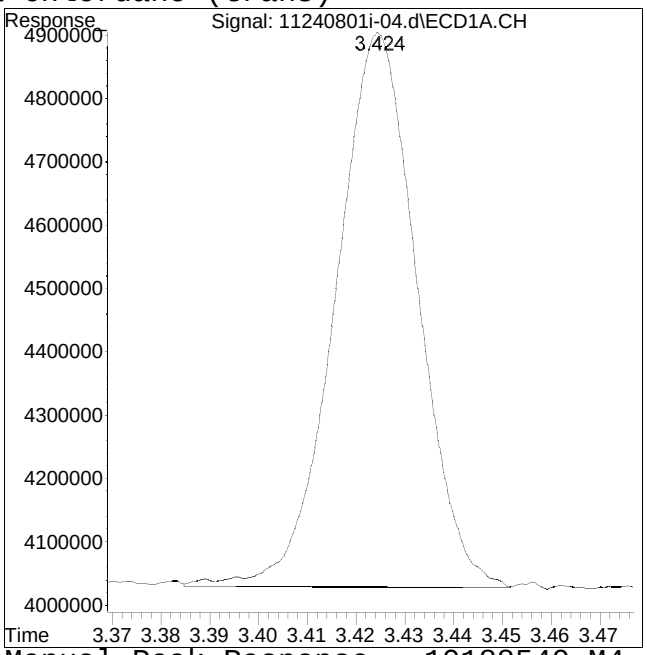
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 10271352



Manual Peak Response = 10188540 M4

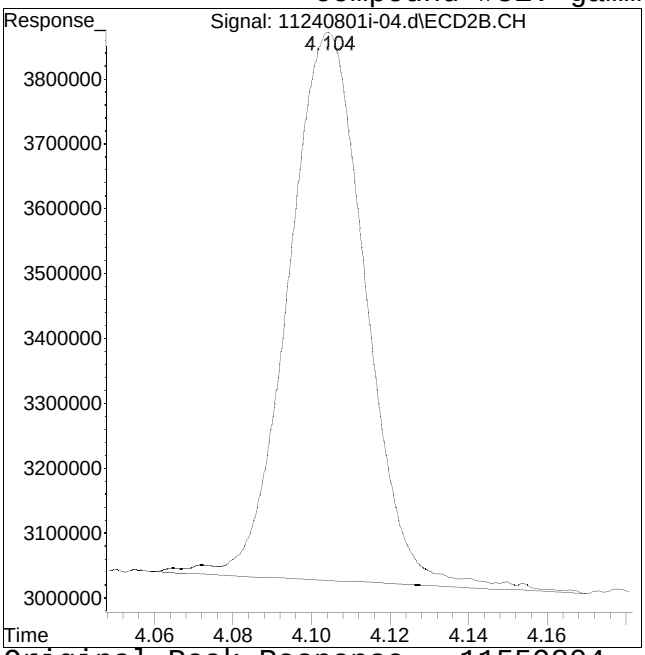
M4 = Poor automated baseline construction.

Manual Integration Report

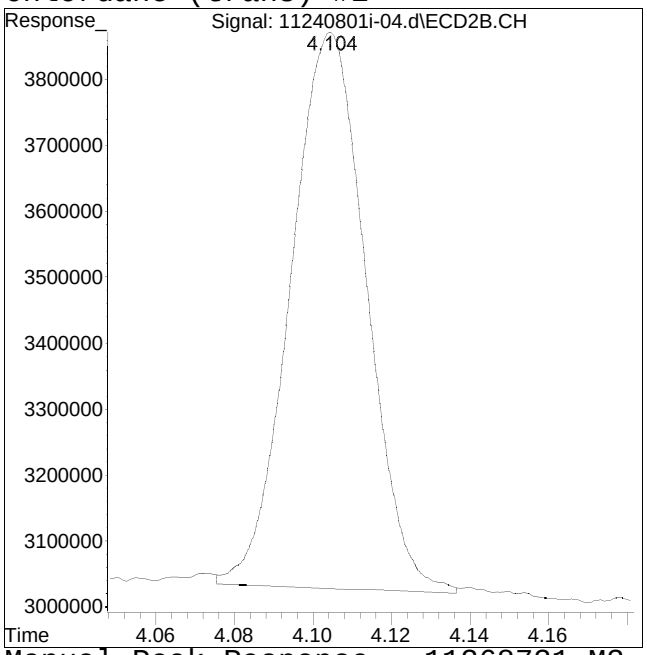
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 11559204



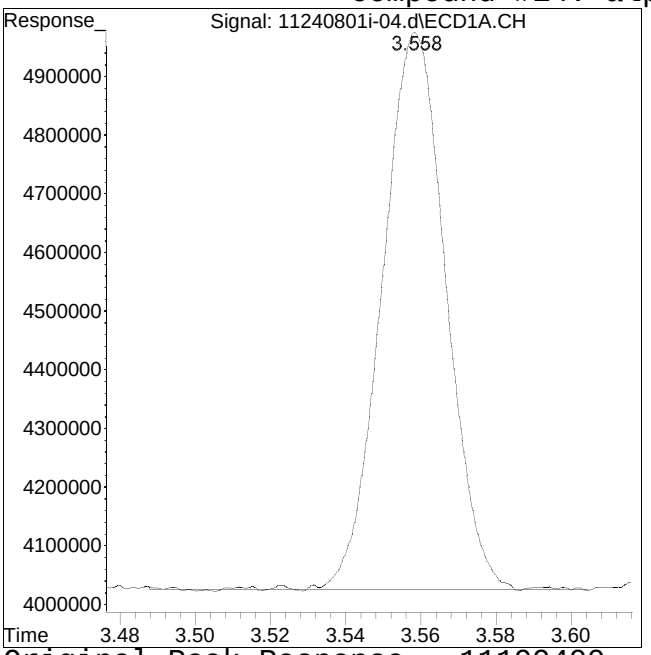
Manual Peak Response = 11268731 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

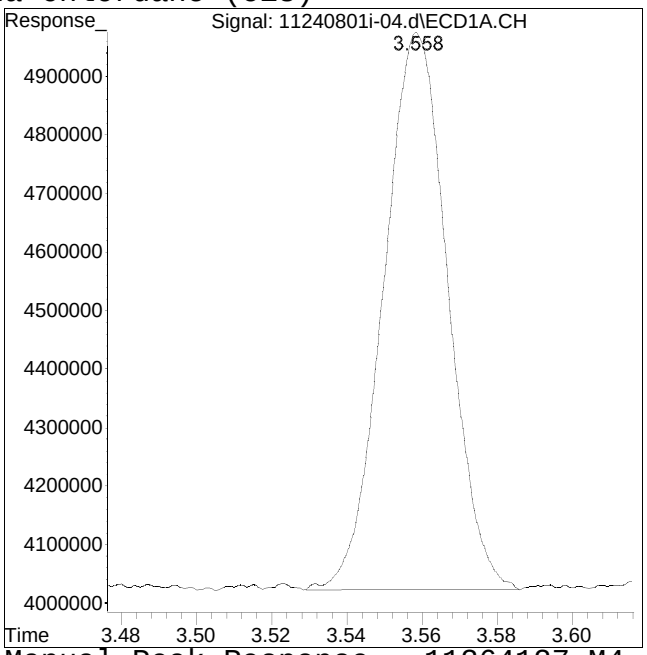
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 11199490



Manual Peak Response = 11264127 M4

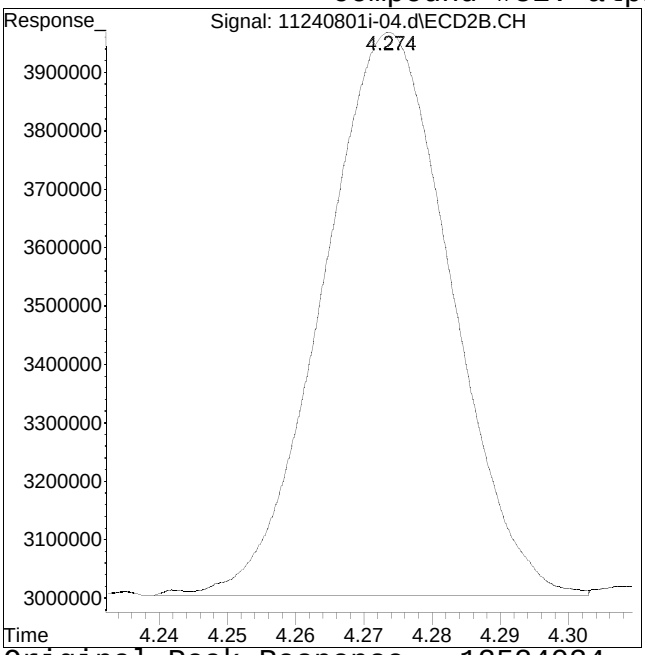
M4 = Poor automated baseline construction.

Manual Integration Report

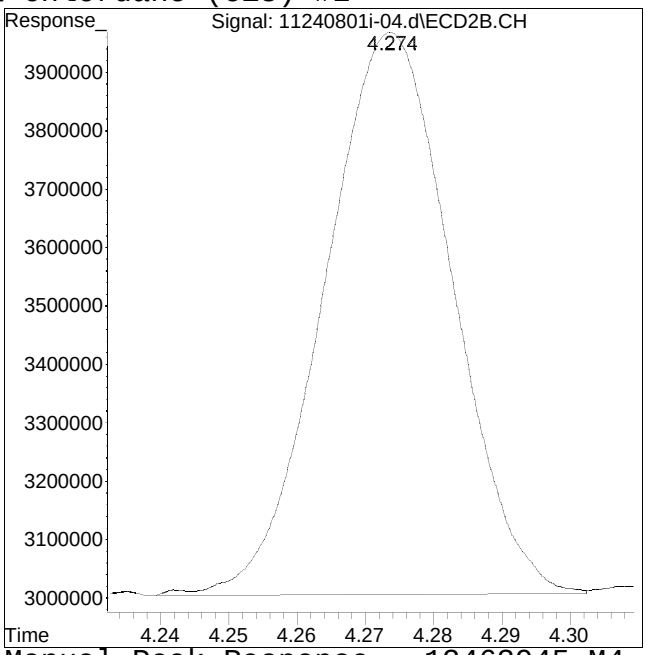
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 12524034



Manual Peak Response = 12463945 M4

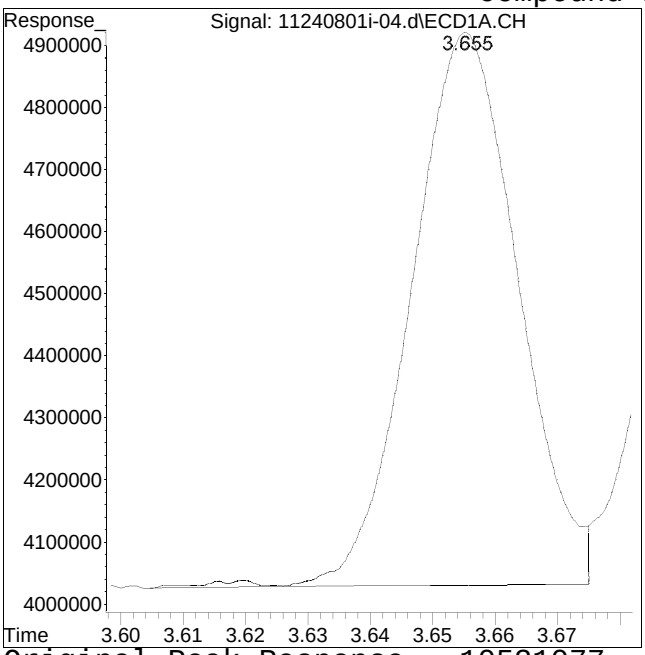
M4 = Poor automated baseline construction.

Manual Integration Report

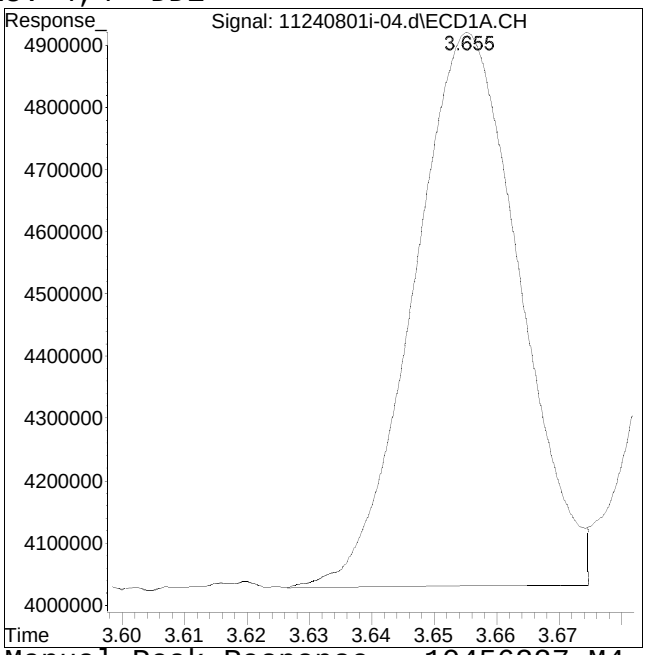
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #15: 4,4'-DDE



Original Peak Response = 10531077



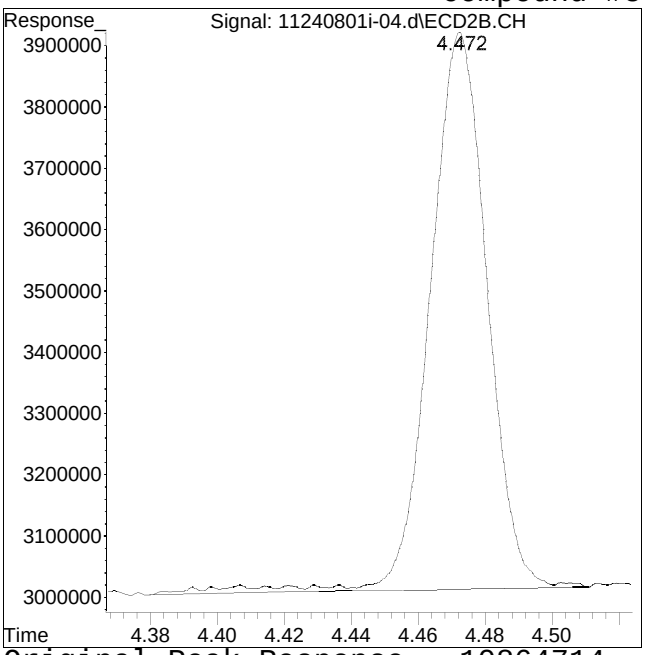
Manual Peak Response = 10456227 M4

M4 = Poor automated baseline construction.

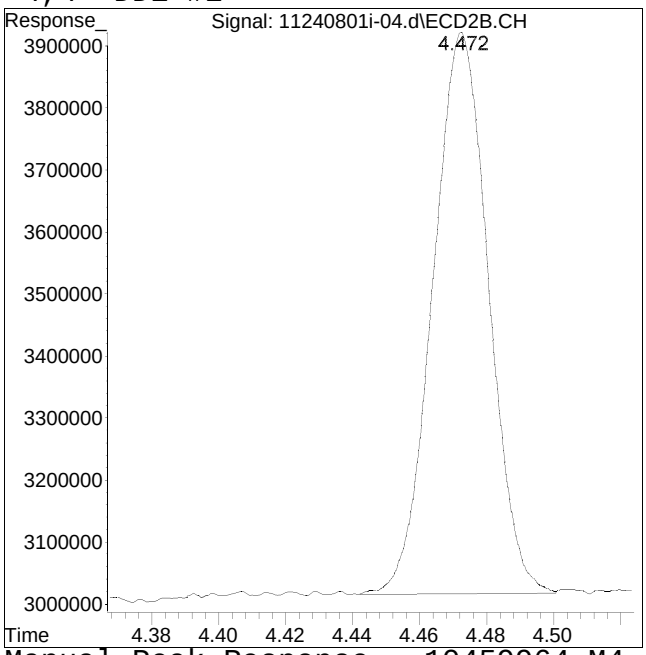
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 10864714



Manual Peak Response = 10459964 M4

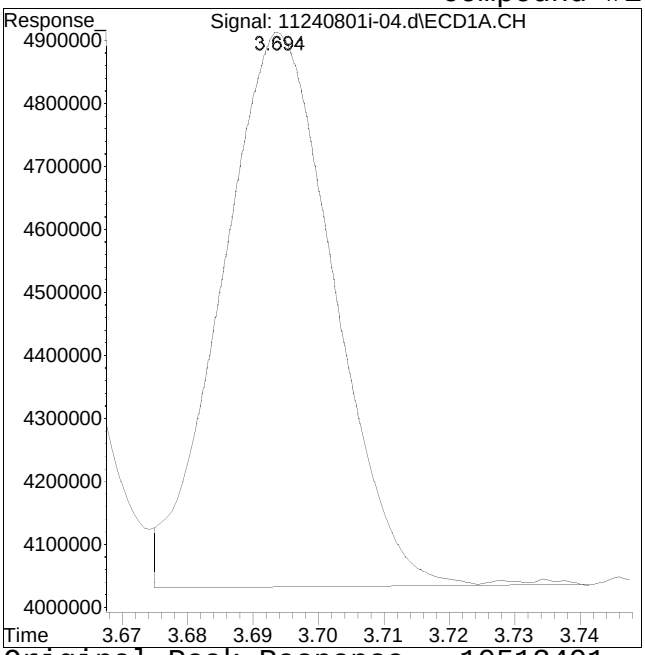
M4 = Poor automated baseline construction.

Manual Integration Report

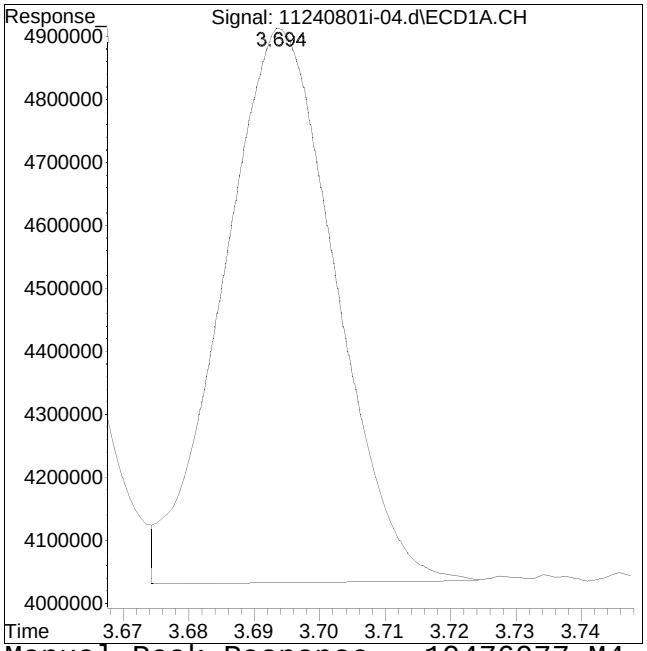
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #16: Endosulfan I



Original Peak Response = 10512491



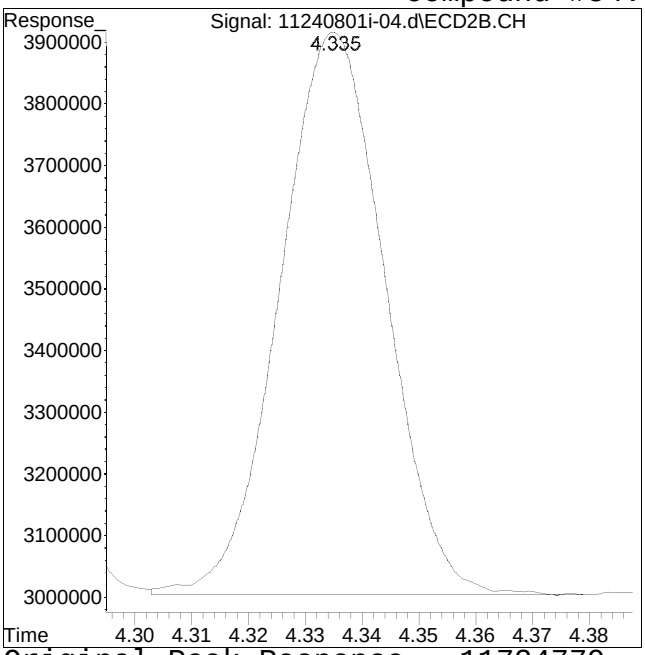
Manual Peak Response = 10476077 M4

M4 = Poor automated baseline construction.

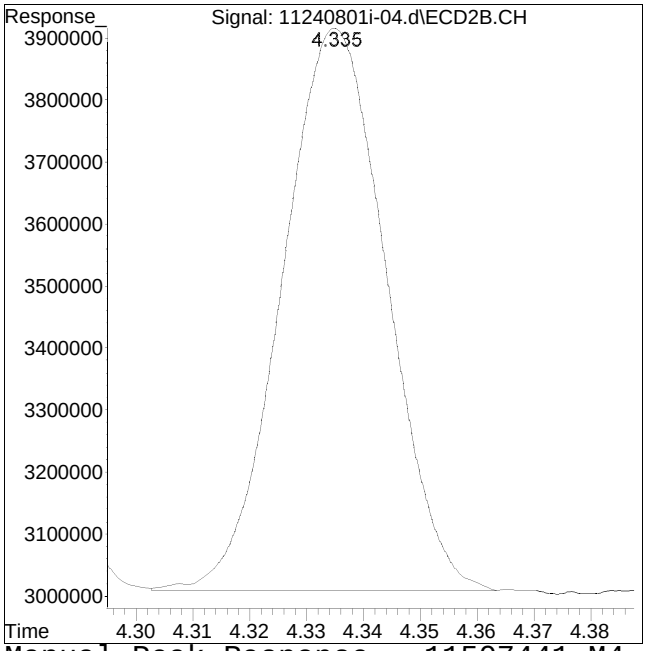
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #54: Endosulfan I #2



Original Peak Response = 11724779



Manual Peak Response = 11507441 M4

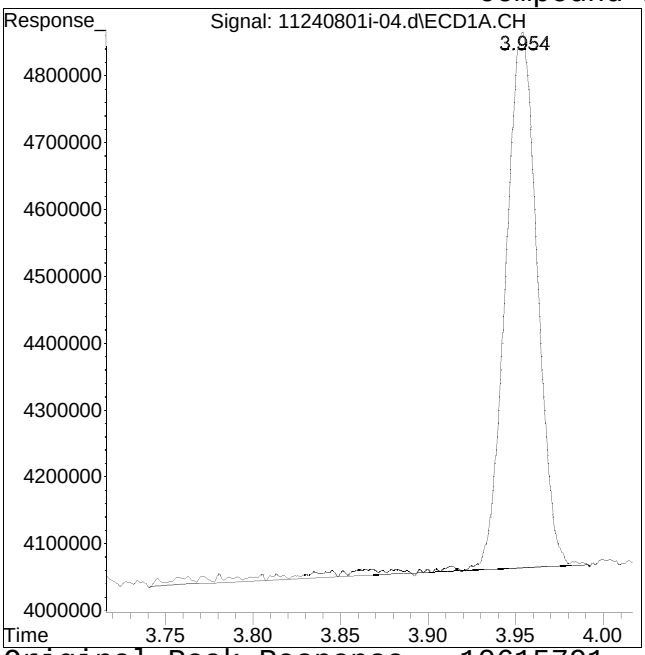
M4 = Poor automated baseline construction.

Manual Integration Report

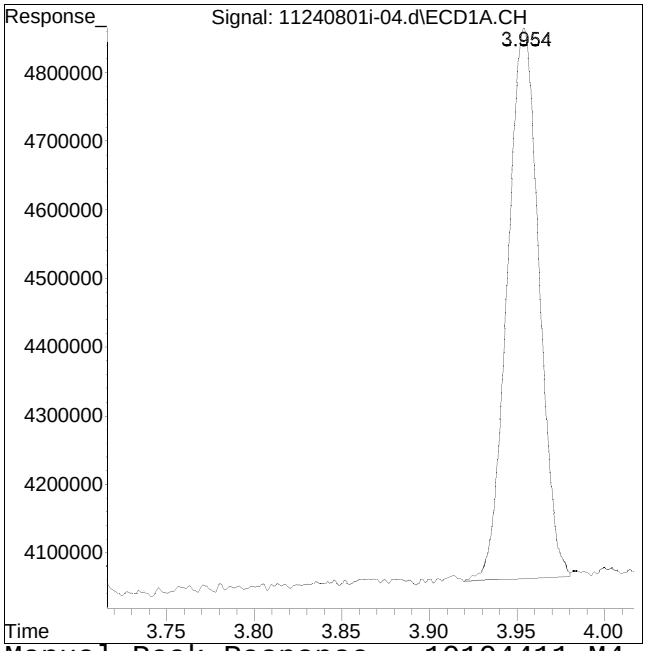
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #17: Dieldrin



Original Peak Response = 10615791



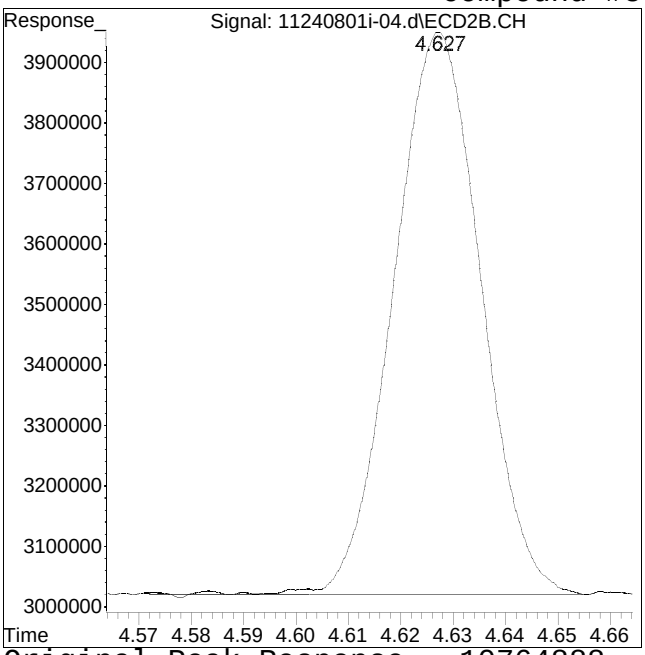
Manual Peak Response = 10104411 M4

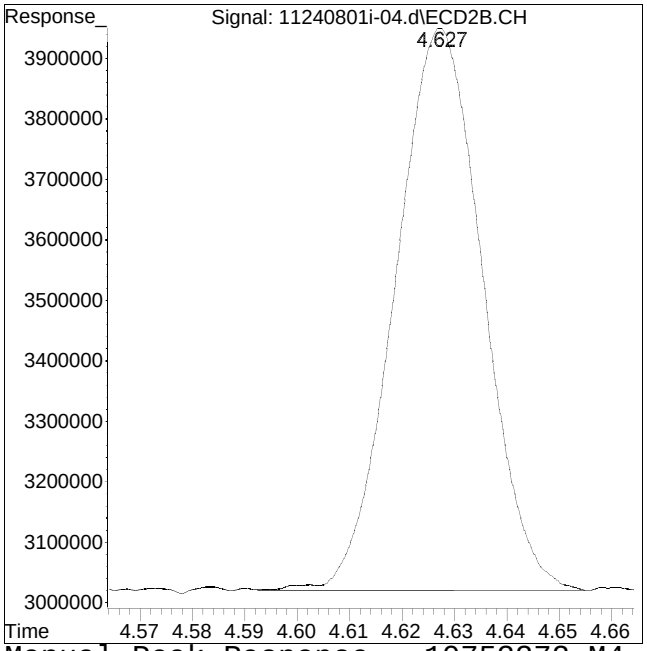
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #55: Dieldrin #2





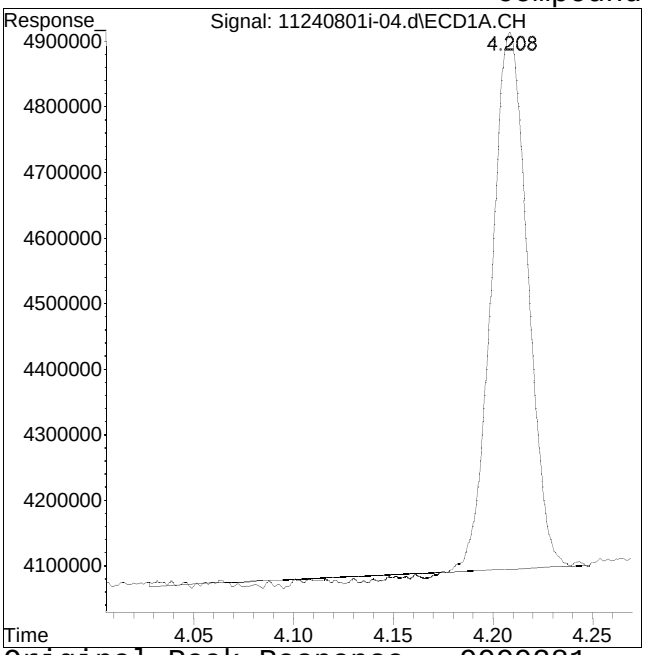
Original Peak Response = 10764888 Manual Peak Response = 10753372 M4
M4 = Poor automated baseline construction.

Manual Integration Report

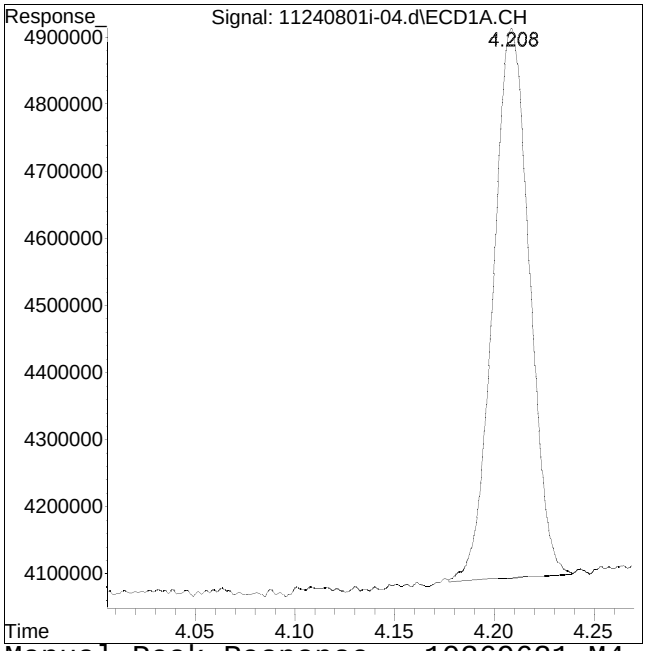
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #18: Endrin



Original Peak Response = 9999281



Manual Peak Response = 10369621 M4

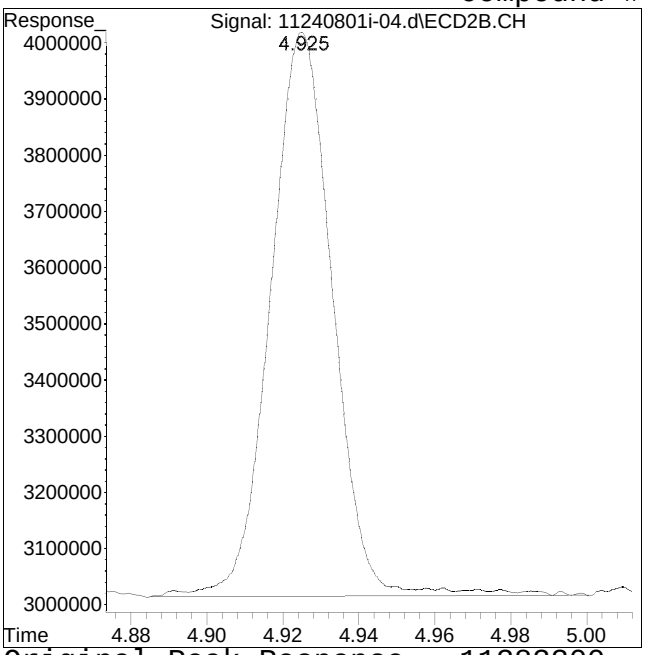
M4 = Poor automated baseline construction.

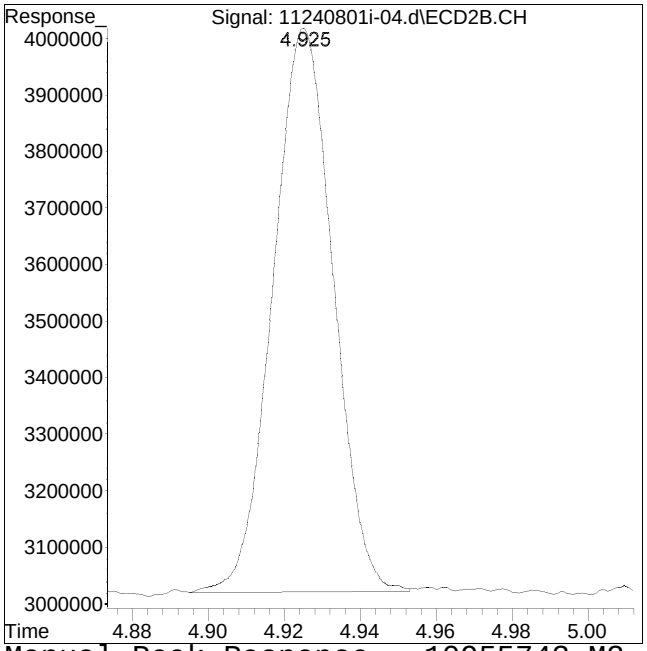
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #56: Endrin #2





Original Peak Response = 11383300 Manual Peak Response = 10955743 M3

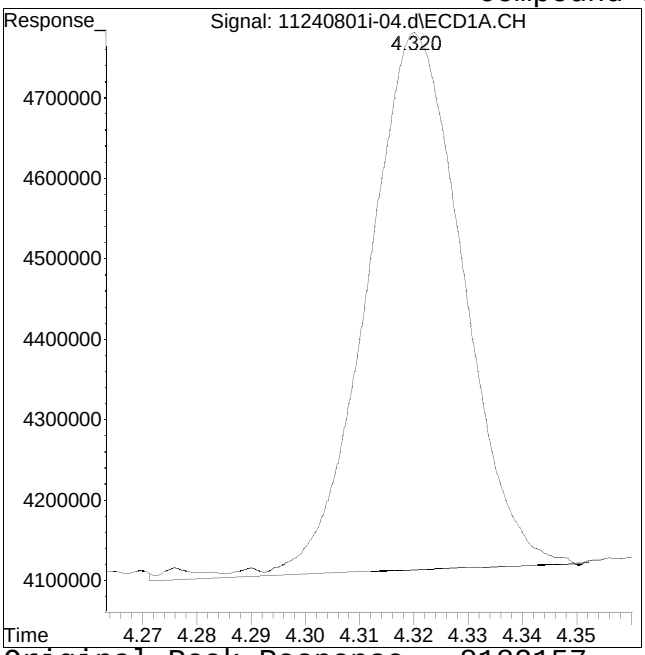
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

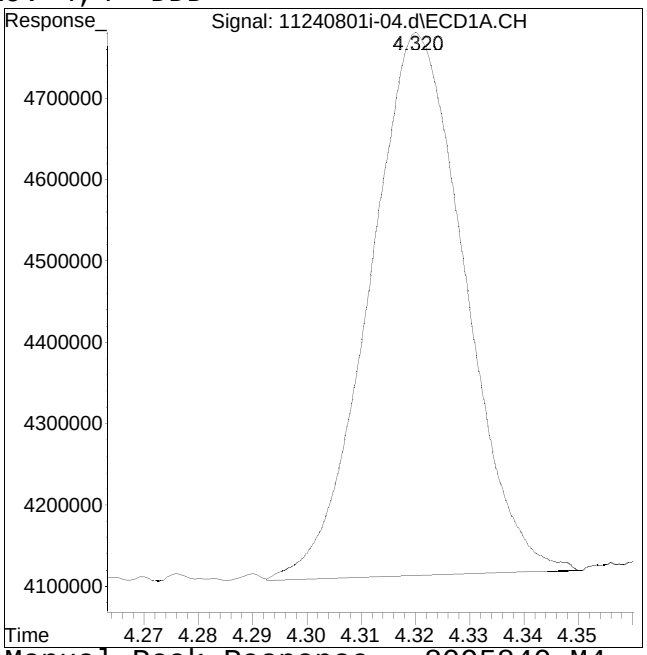
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #19: 4,4'-DDD



Original Peak Response = 8182157



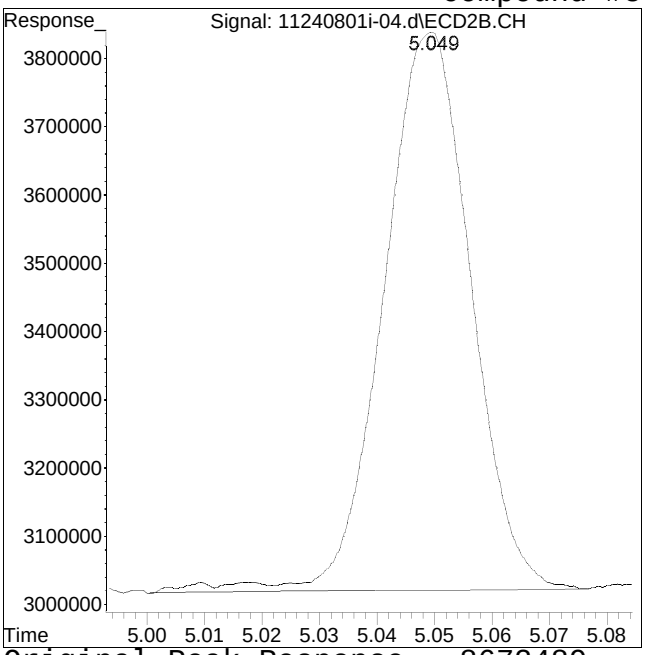
Manual Peak Response = 8095840 M4

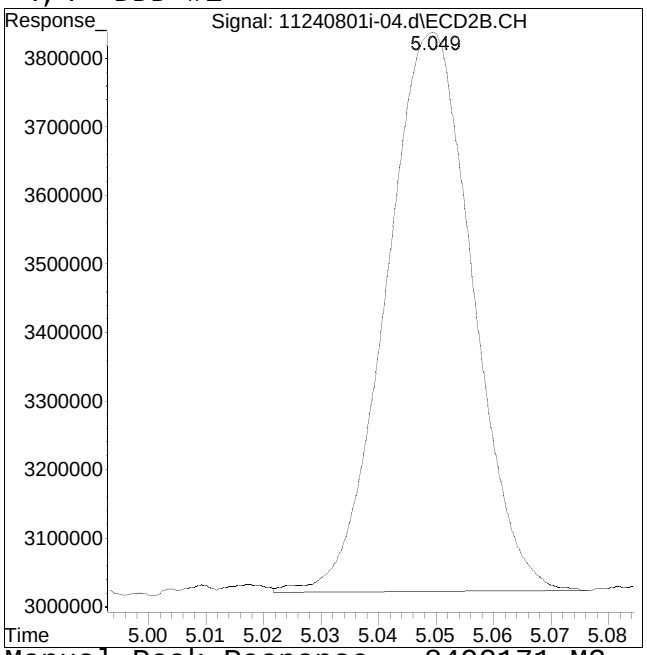
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0Quant Date : 8/2/2024 11:23 am

Compound #57: 4,4'-DDD #2





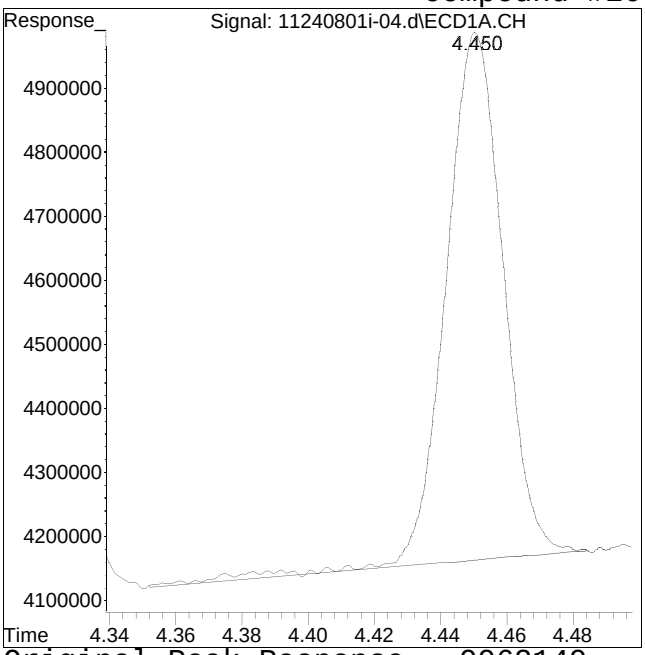
Original Peak Response = 8672489 Manual Peak Response = 8492171 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

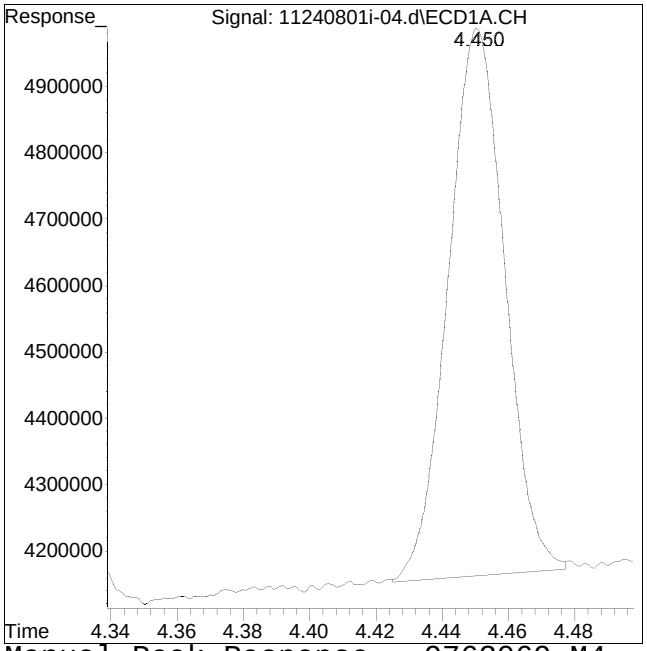
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #20: Endosulfan II



Original Peak Response = 9962149



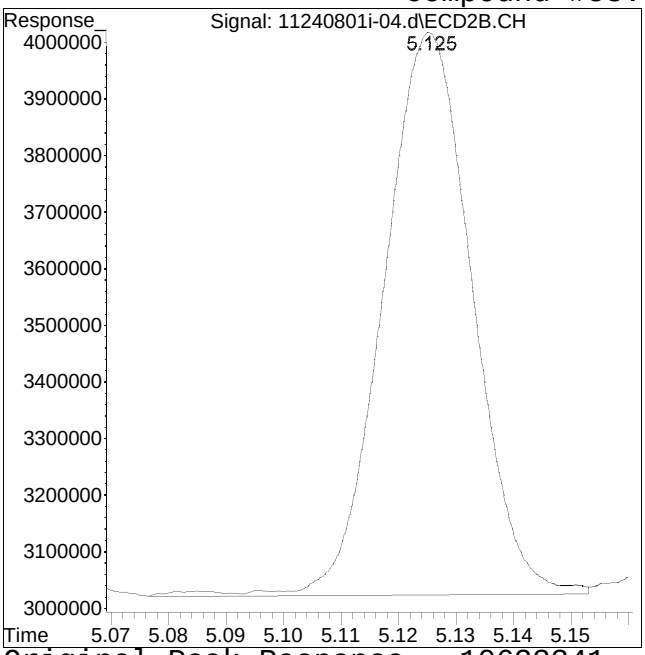
Manual Peak Response = 9763069 M4

M4 = Poor automated baseline construction.

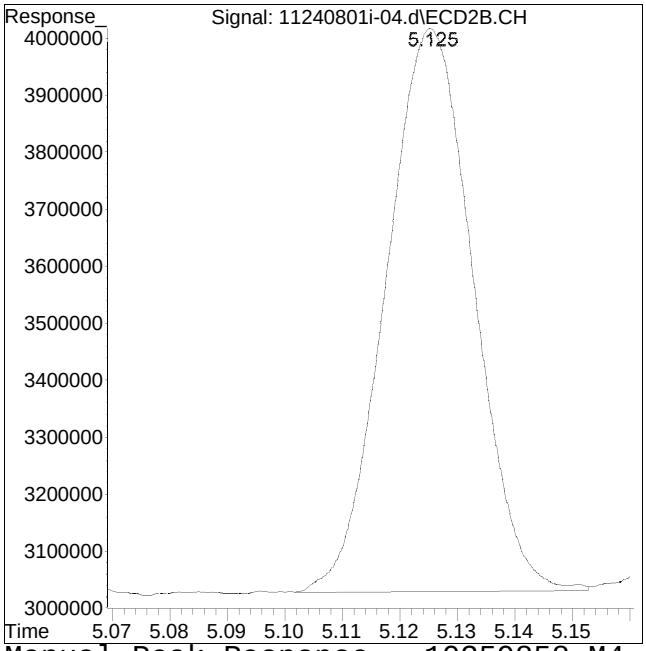
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #58: Endosulfan II #2



Original Peak Response = 10633341



Manual Peak Response = 10359858 M4

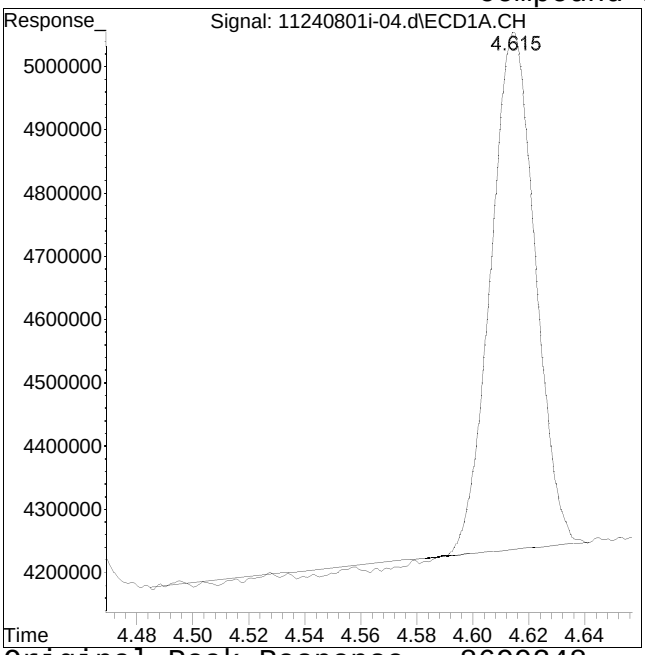
M4 = Poor automated baseline construction.

Manual Integration Report

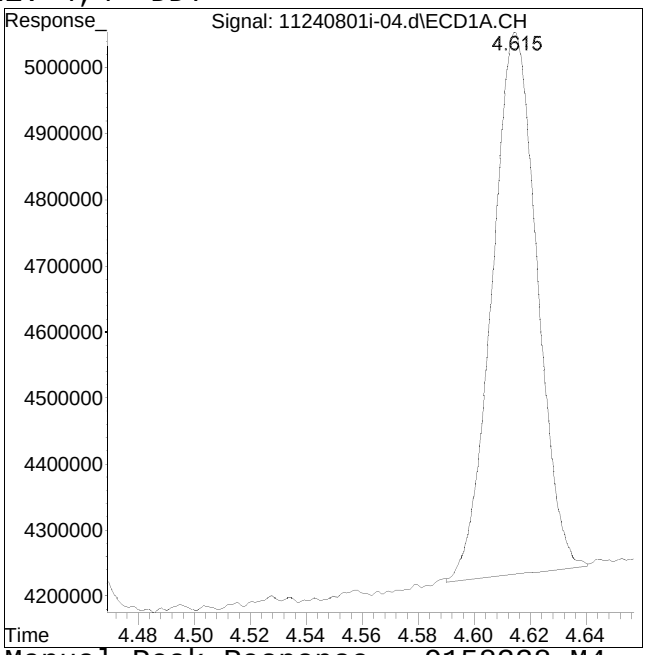
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #21: 4,4'-DDT



Original Peak Response = 8699248



Manual Peak Response = 9158338 M4

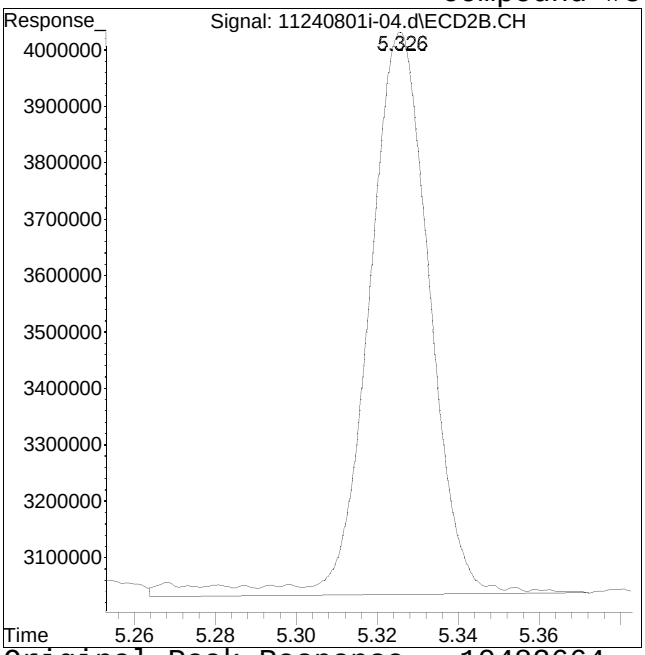
M4 = Poor automated baseline construction.

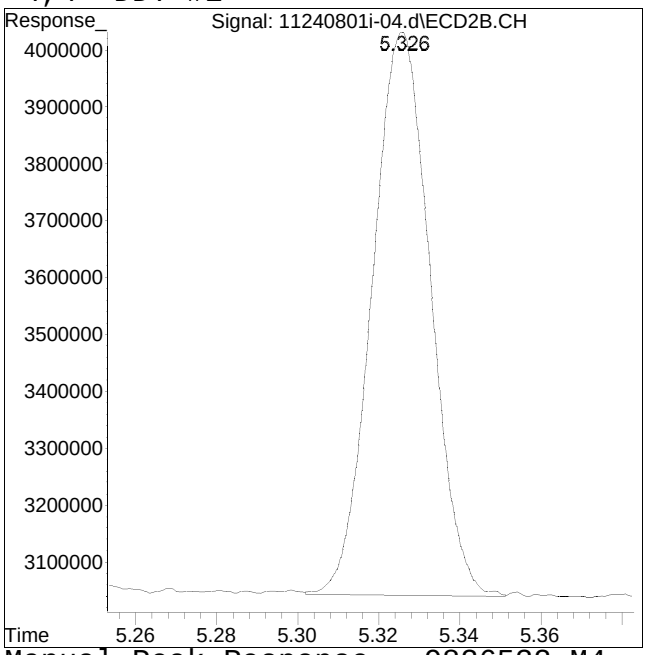
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #59: 4,4'-DDT #2



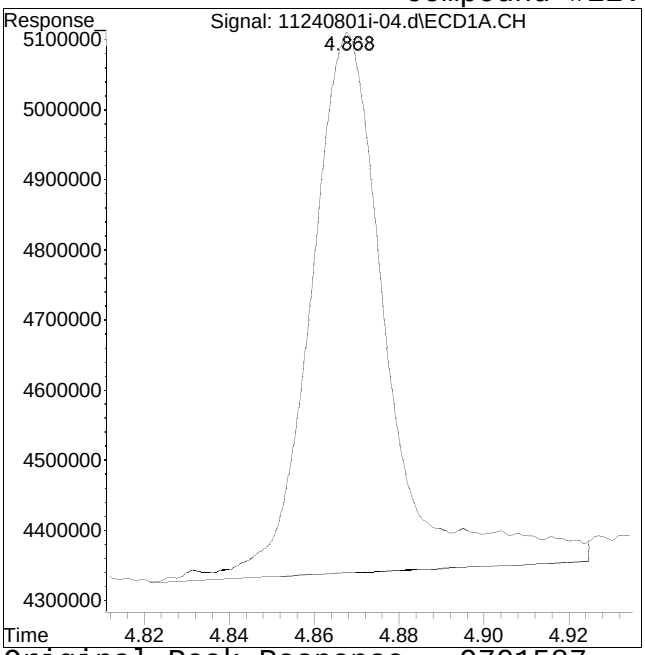


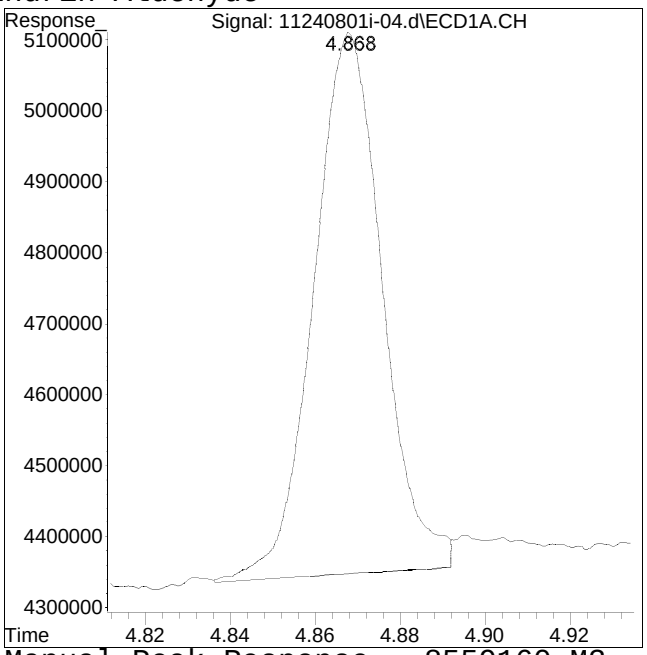
Original Peak Response = 10482664 Manual Peak Response = 9826532 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #22: Endrin Aldehyde





Original Peak Response = 9701587 Manual Peak Response = 8559160 M3

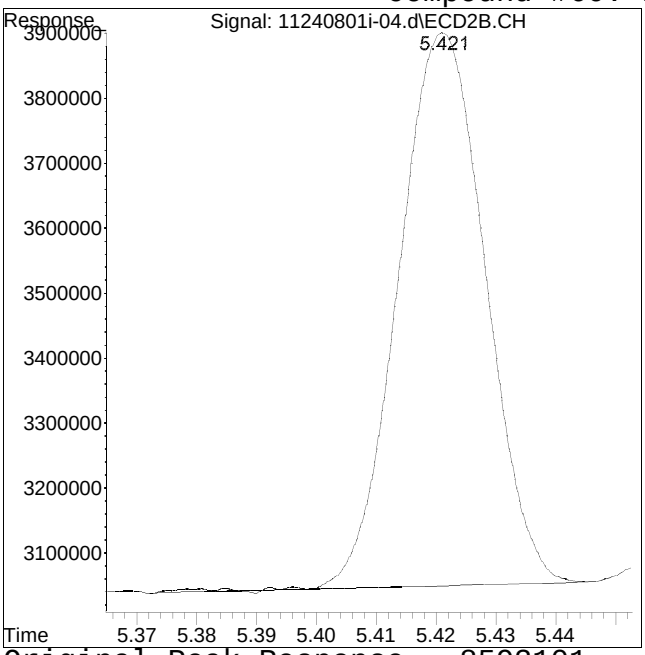
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

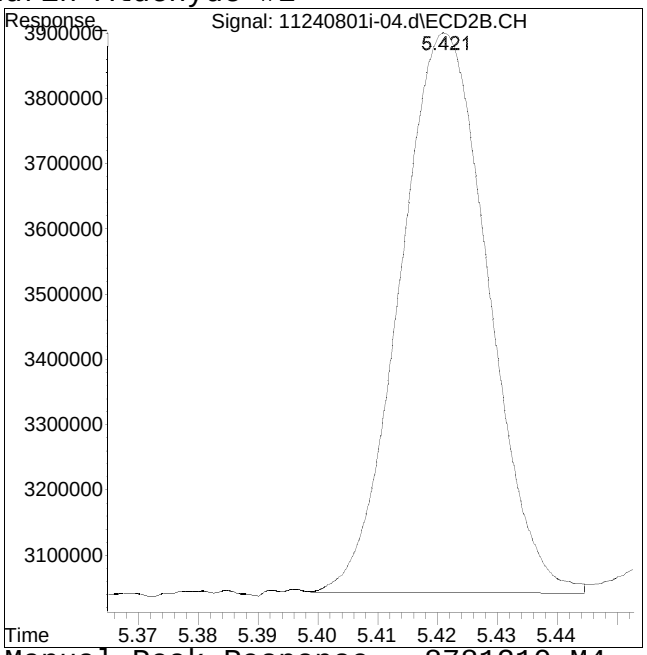
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 8593101



Manual Peak Response = 8781210 M4

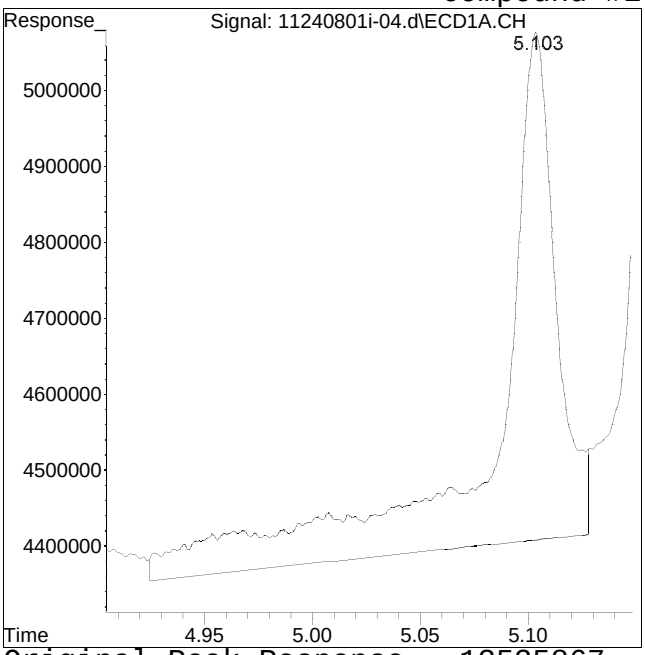
M4 = Poor automated baseline construction.

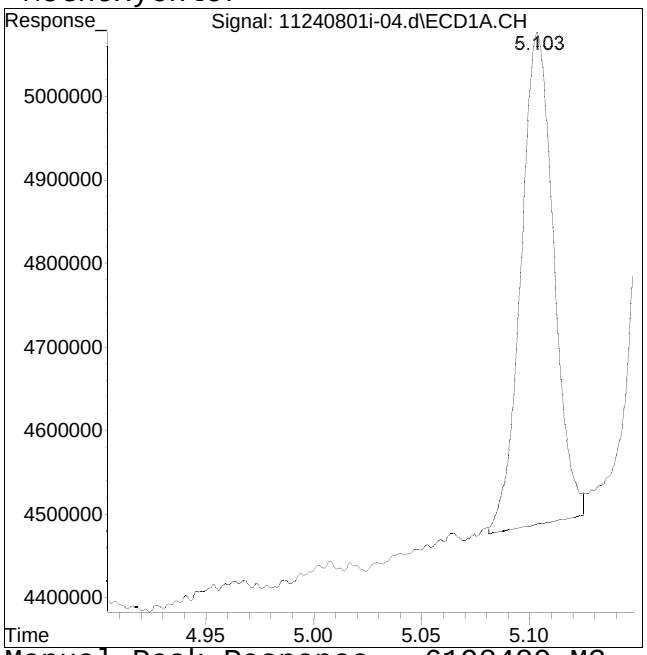
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #23: Methoxychlor





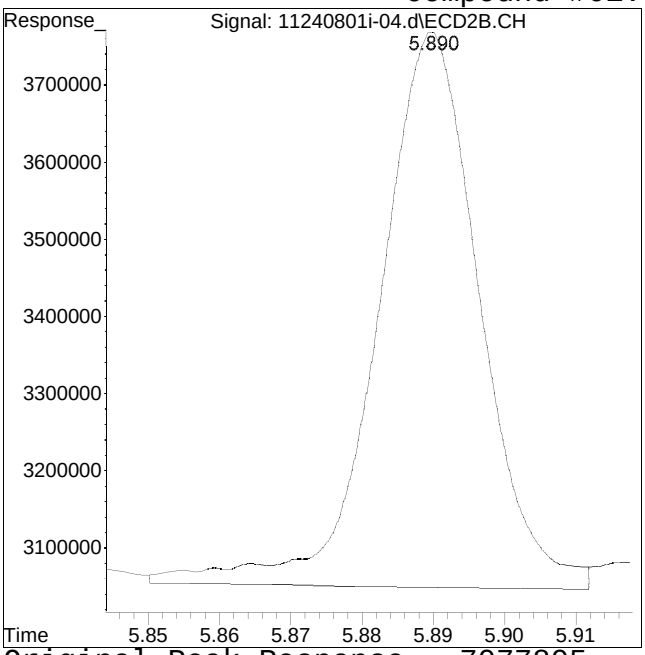
Original Peak Response = 13535867 Manual Peak Response = 6198489 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

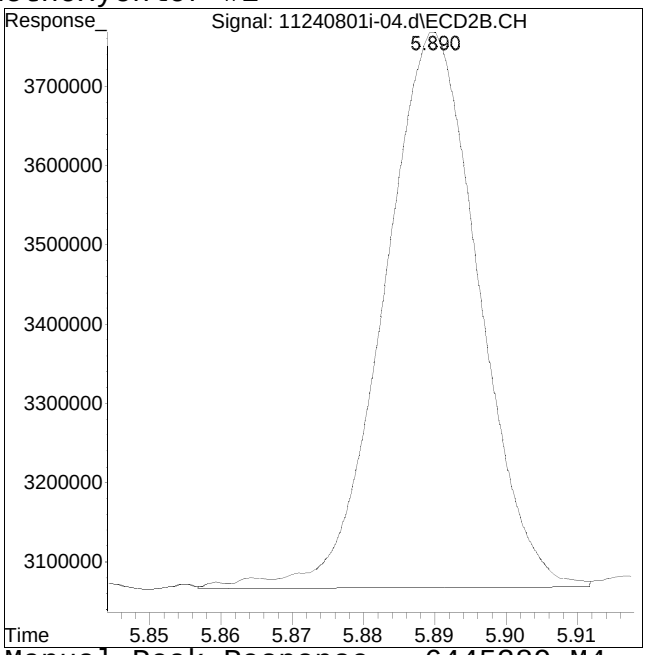
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #61: Methoxychlor #2



Original Peak Response = 7077805



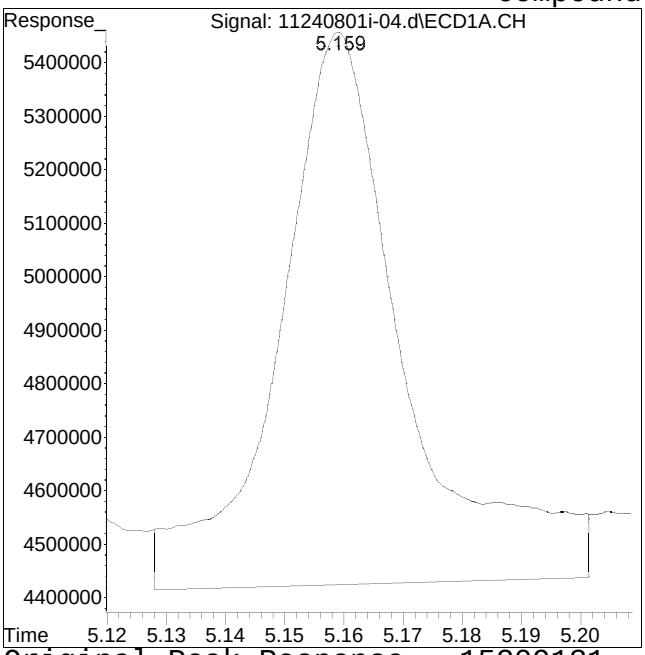
Manual Peak Response = 6445389 M4

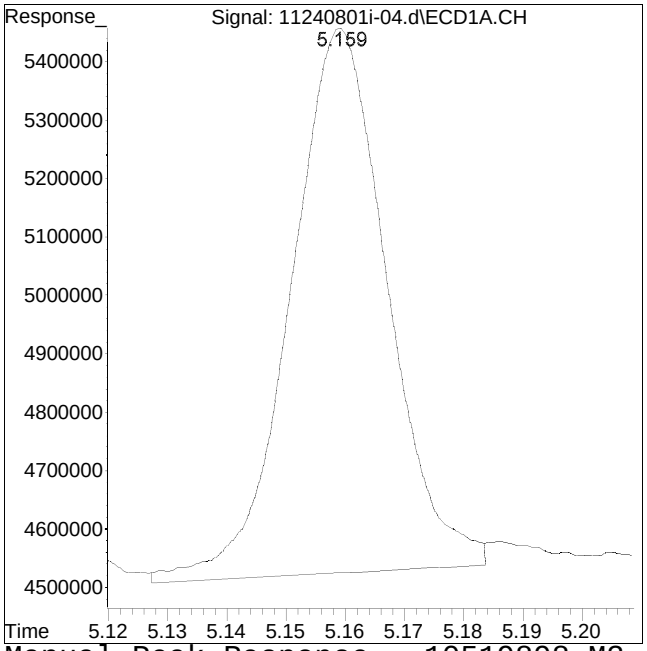
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0 Quant Date : 8/2/2024 11:23 am

Compound #24: Mirex





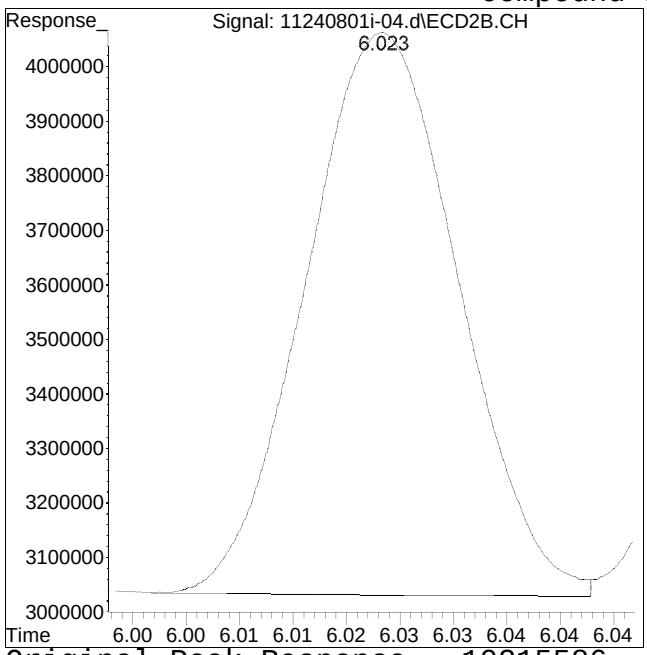
Original Peak Response = 15209131 Manual Peak Response = 10519898 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

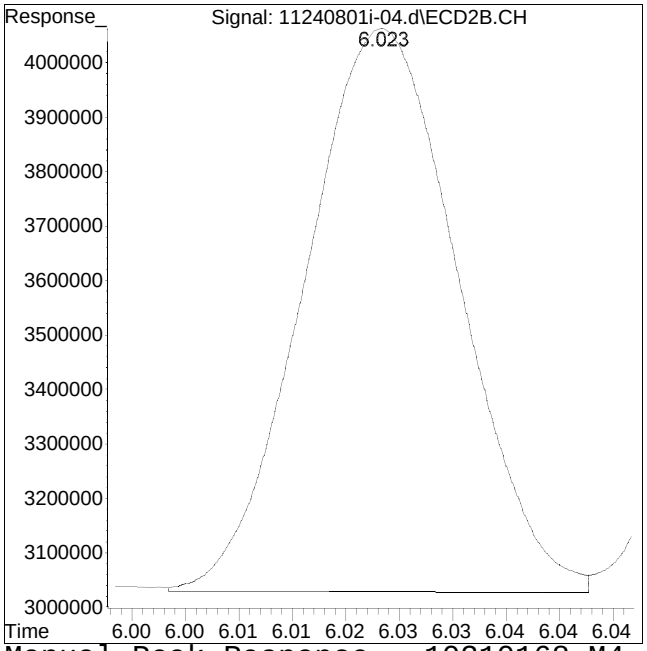
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #62: Mirex #2



Original Peak Response = 10215586



Manual Peak Response = 10310168 M4

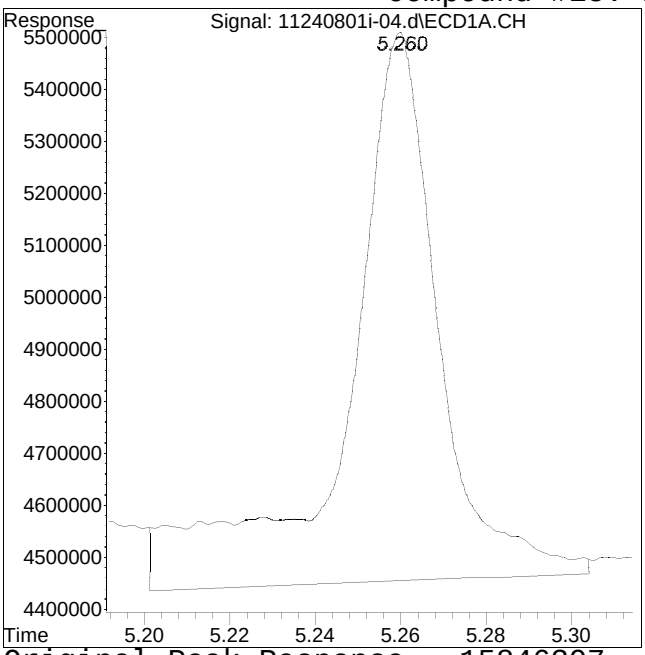
M4 = Poor automated baseline construction.

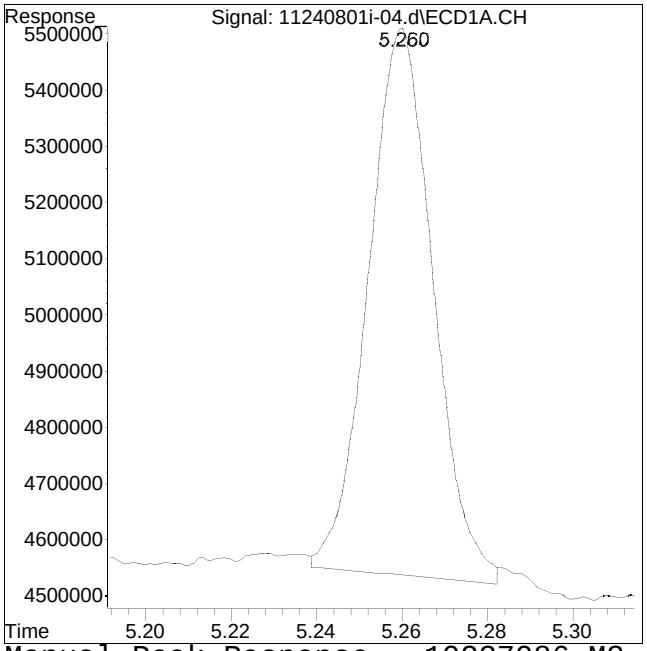
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 15846397 Manual Peak Response = 10237086 M3

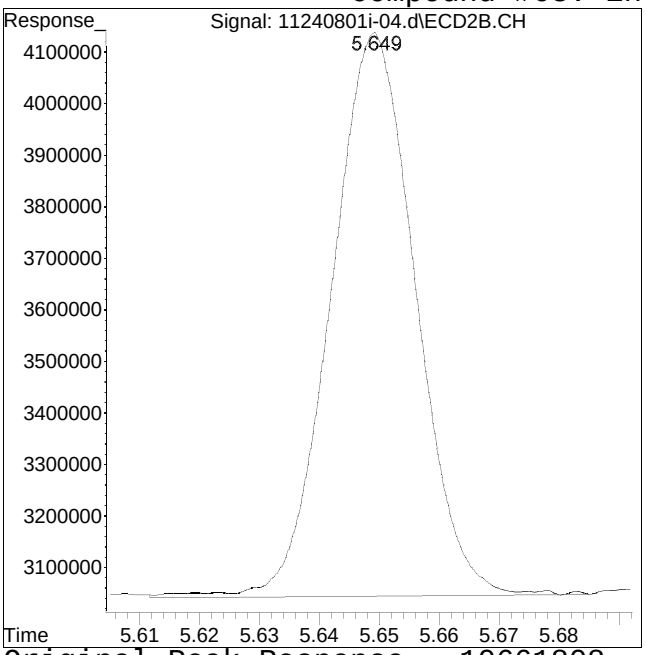
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

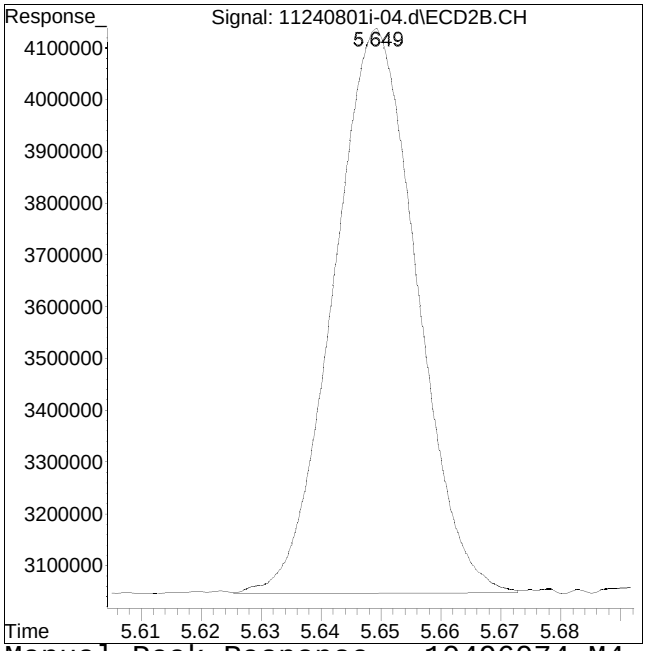
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 10661808



Manual Peak Response = 10496074 M4

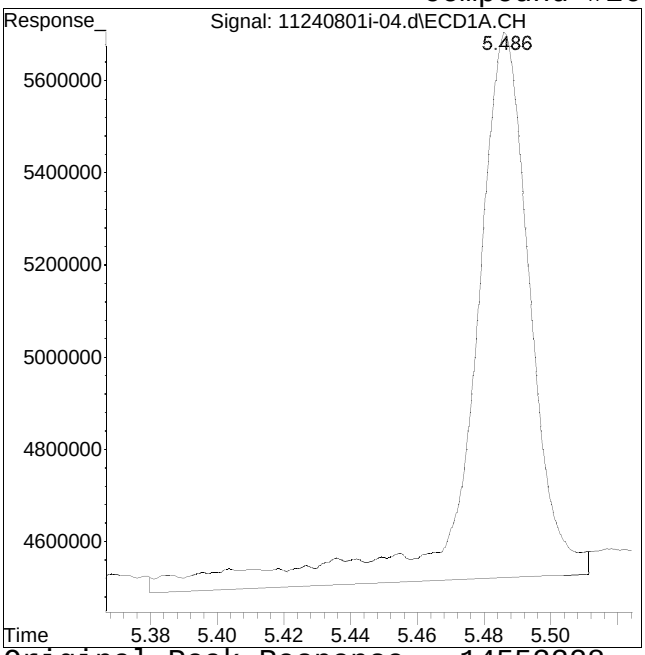
M4 = Poor automated baseline construction.

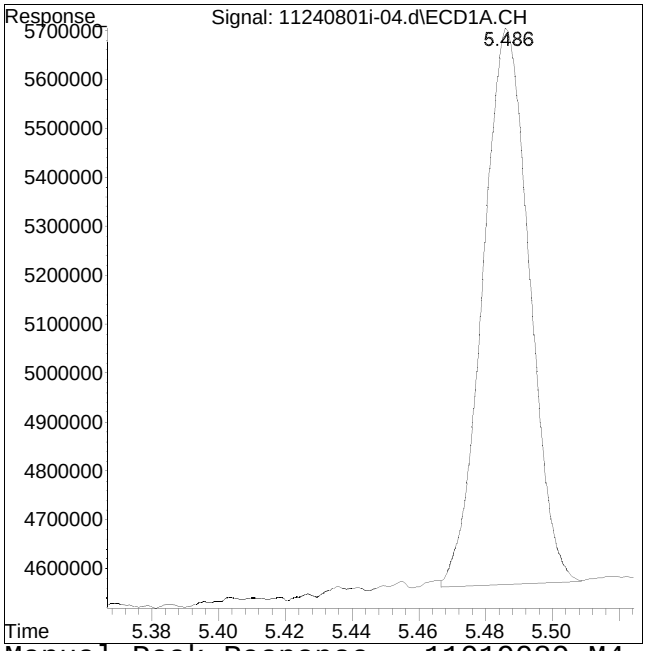
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #26: Endrin Ketone



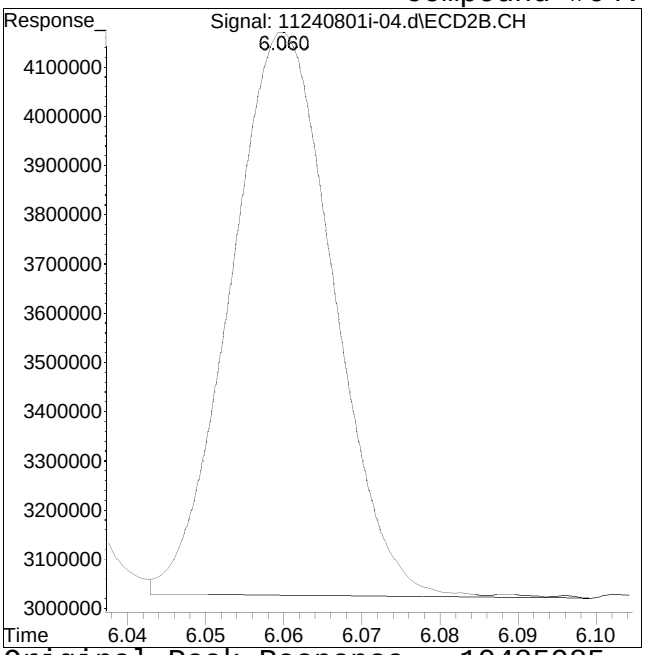


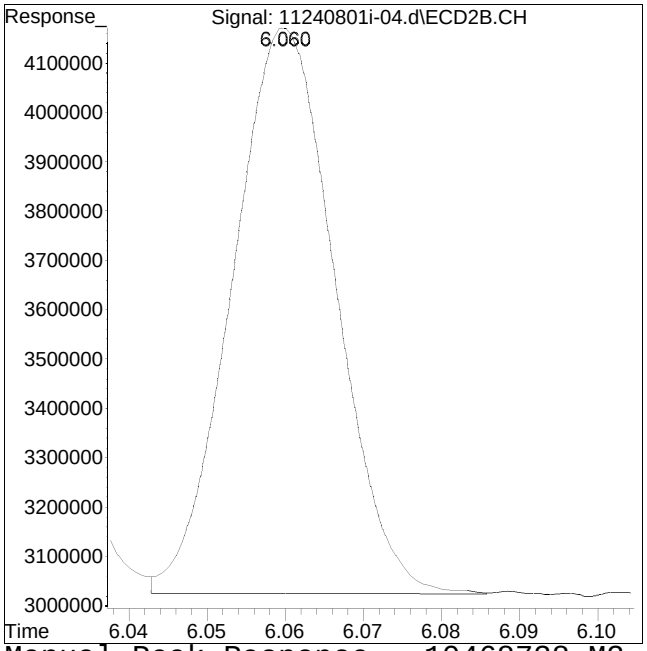
Original Peak Response = 14553228 Manual Peak Response = 11019089 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-04.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 18:49 Instrument : Pest 11
Sample : il2pest,42e,,pp 11686 L0.0 Quant Date : 8/2/2024 11:23 am

Compound #64: Endrin Ketone #2



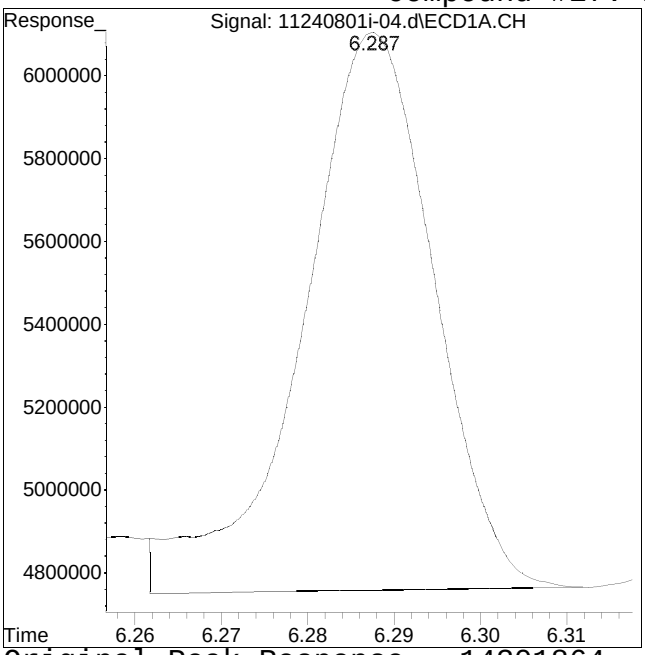


Original Peak Response = 10485985 Manual Peak Response = 10468738 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

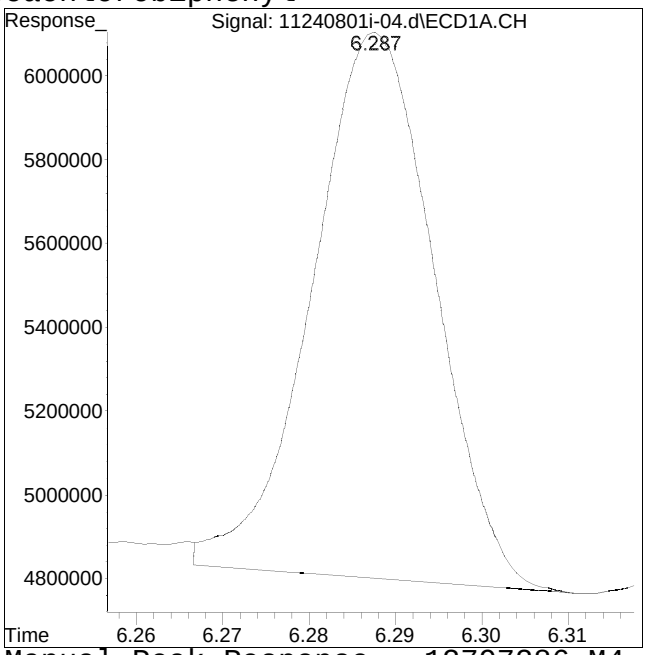
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 14301864



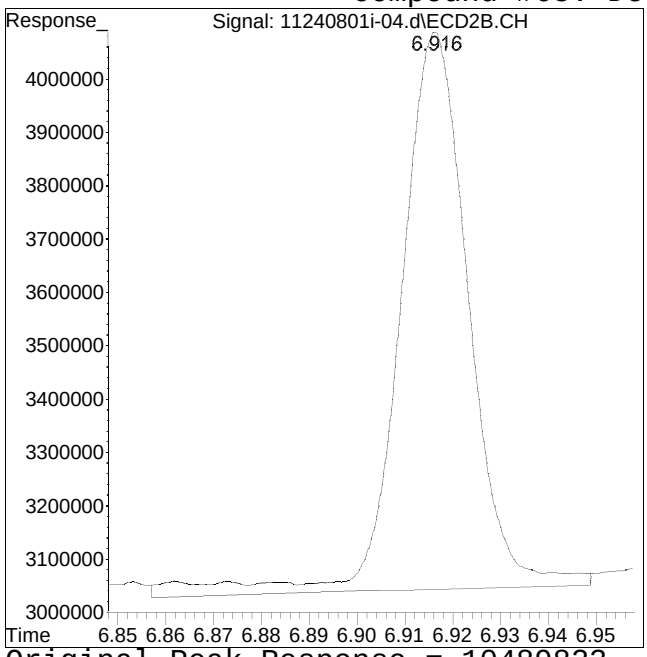
Manual Peak Response = 12797286 M4

M4 = Poor automated baseline construction.

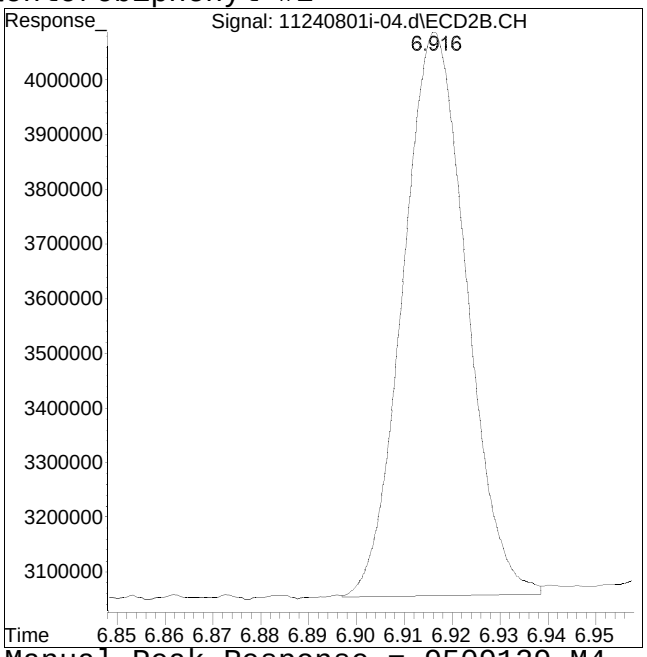
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-04.d
Date Inj'd : 8/1/2024 18:49
Sample : il2pest,42e,,pp 11686 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:23 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 10489823



Manual Peak Response = 9509129 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	233.6E6	183.3E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	19656914	17683979	2.037M4	2.218M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.07%#	4.44%#
27) s	Decachlorobi	6.288	6.921	24597164	17880278	2.363M4	2.415M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.73%#	4.83%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.177	28232919	20378901	2.202M4	2.341M4
4) t	alpha-BHC	1.963	2.270	24776337	22916880	1.763M3	1.910M4
5) t	gamma-BHC (l	2.165	2.556	24518590	22225331	1.860M4	2.012M4
6) t	beta-BHC	2.221	2.622	12371613	12076597	2.144M4	2.433M4
7) t	delta-BHC	2.349	2.889	23489321	22105919	1.784M4	1.978
8) t	Heptachlor	2.513	2.951	24704645	25240850	2.000M3	2.217M4
9) t	Aldrin	2.755	3.270	22221712	21532475	1.906M3	2.069M4
10) t	Alachlor	2.876	3.153	4616058	4291521	2.172M4	2.624M4
11) t	Chlorpyrifos	2.968	3.506	12587779	16060949	2.339M4	2.633M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	22577234	23119137	2.042M3	2.290M4
13)	t	gamma-Chlord	3.425	4.104	20000923	21362303	1.986M3	2.301M3
14)	t	alpha-Chlord	3.559	4.274	22560782	23123524	1.977M4	2.254M4
15)	t	4,4'-DDE	3.656	4.472	21256749	19930567	1.878	2.035M4
16)	t	Endosulfan I	3.695	4.335	20979786	21644513	2.011	2.297M4
17)	t	Dieldrin	3.954	4.627	20608823	20372093	1.919M4	2.128M4
18)	t	Endrin	4.209	4.926	21154040	20698754	1.945M4	2.132
19)	t	4,4'-DDD	4.321	5.049	16433727	16195802	1.862M4	2.053M4
20)	t	Endosulfan I	4.451	5.125	19856372	19658239	2.017M4	2.284M4
21)	t	4,4'-DDT	4.615	5.325	19330578	18980554	1.925M4	2.092M3
22)	t	Endrin Aldeh	4.868	5.421	16609803	16584125	2.012M4	2.309M4
23)	t	Methoxychlor	5.104	5.890	11871688	11964320	2.204M4	2.443M3
24)	t	Mirex	5.159	6.024	19186744	19029253	2.220M4	2.566M4
25)	t	Endosulfan S	5.259	5.649	19345504	19598268	2.080M3	2.317M4
26)	t	Endrin Keton	5.487	6.060	22428996	20121740	2.028M4	2.235M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

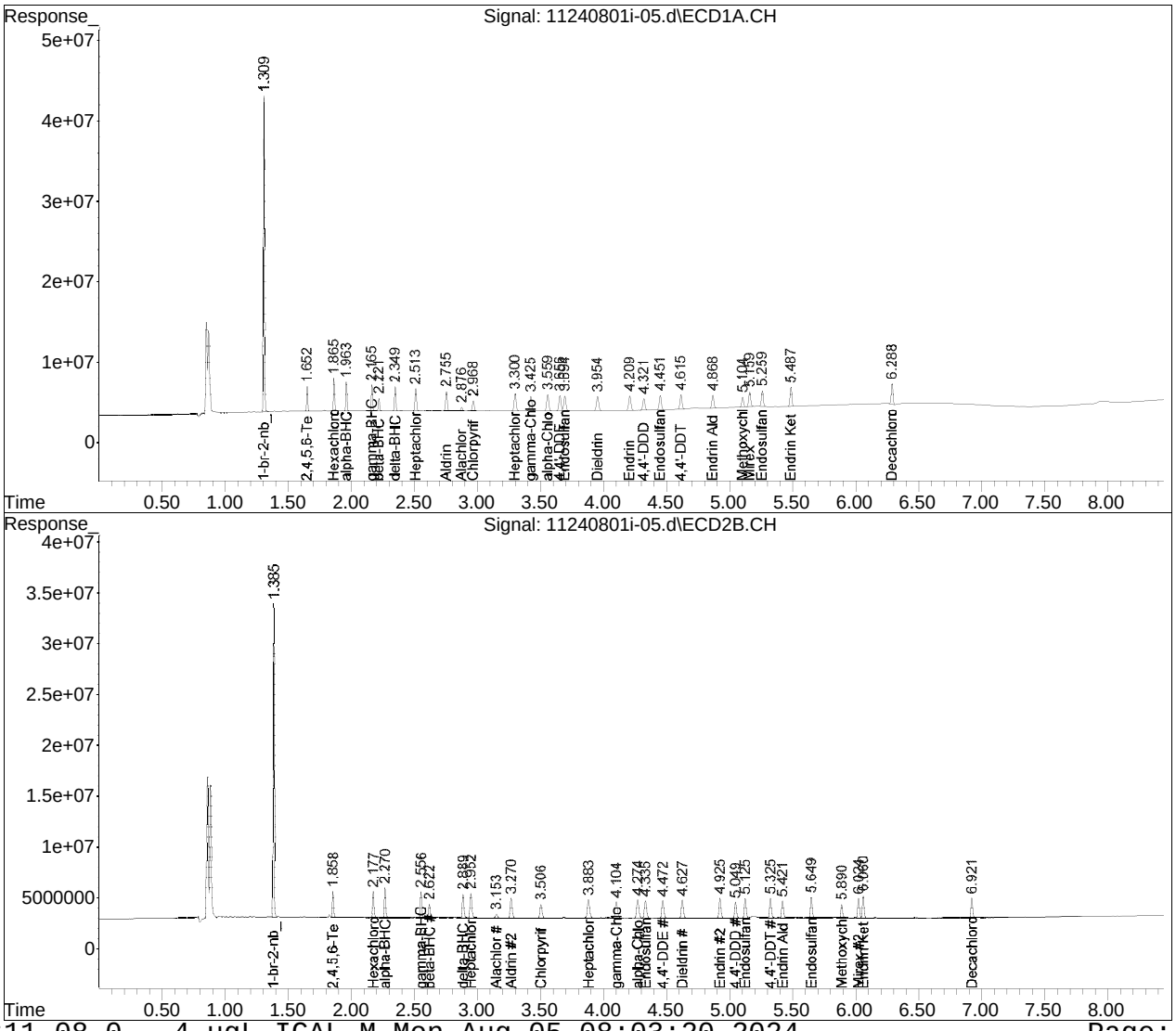
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:01
Operator : PEST11:ejl
Sample : il3pest,42e,,pp 11685 L0.002
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:14:19 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:14:10 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

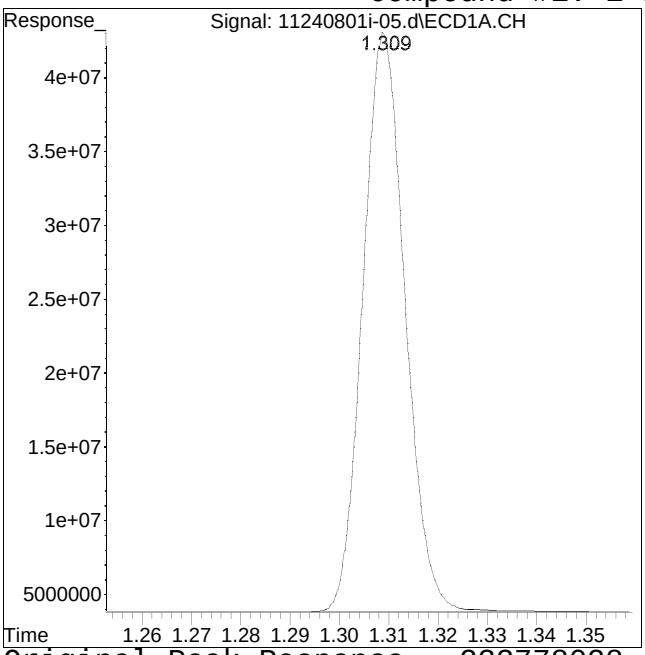


Manual Integration Report

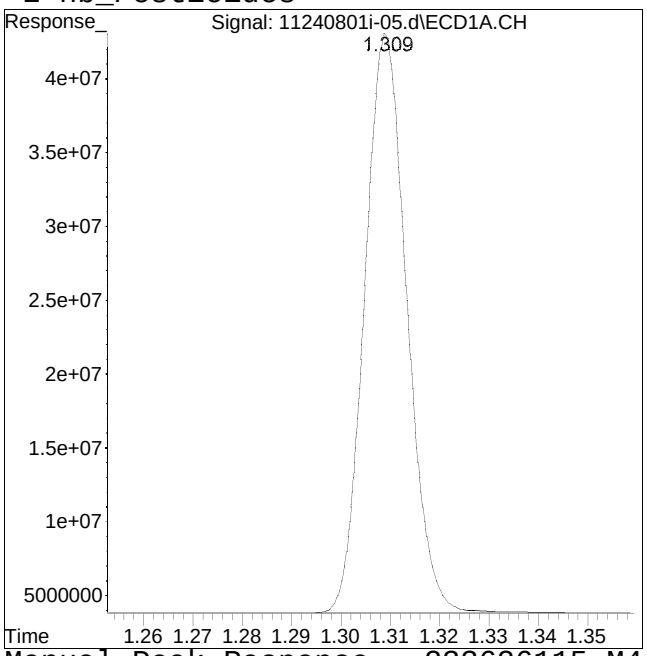
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 233778028



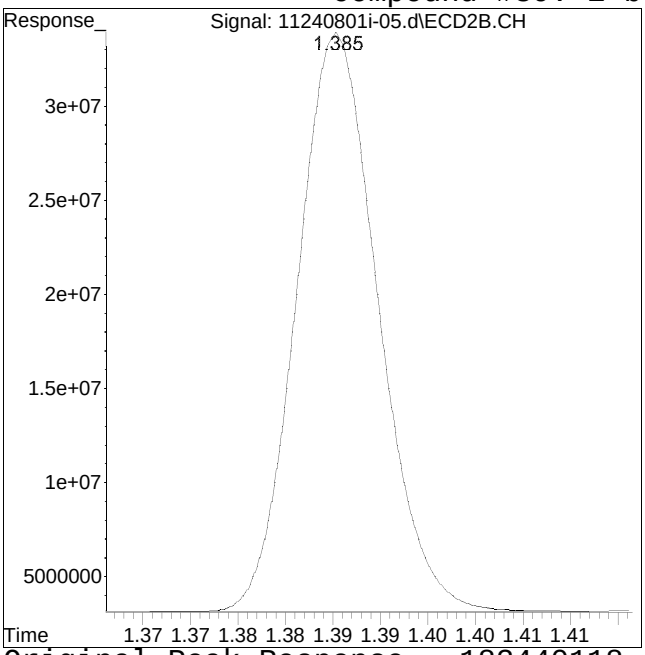
Manual Peak Response = 233626115 M4

M4 = Poor automated baseline construction.

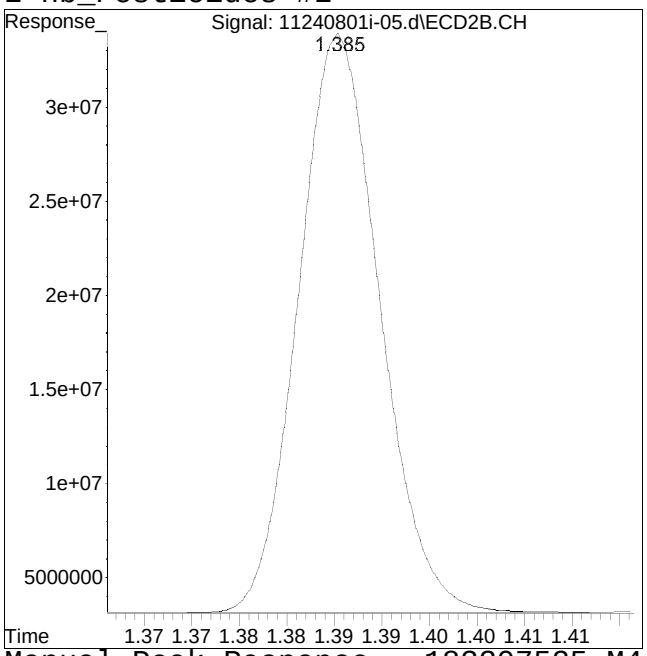
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 183440118



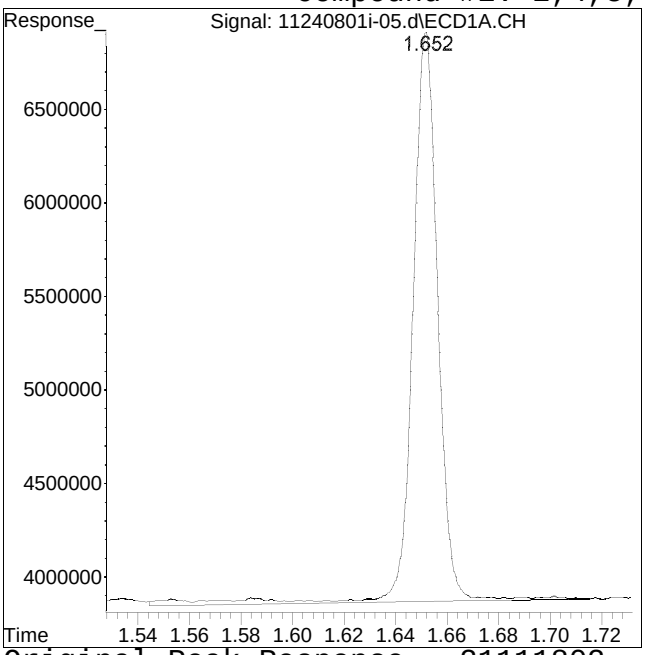
Manual Peak Response = 183307525 M4

M4 = Poor automated baseline construction.

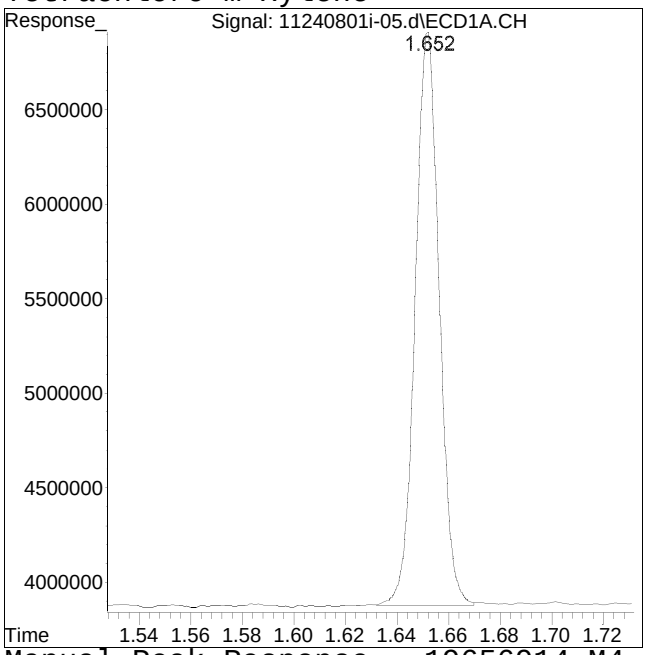
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 21111802



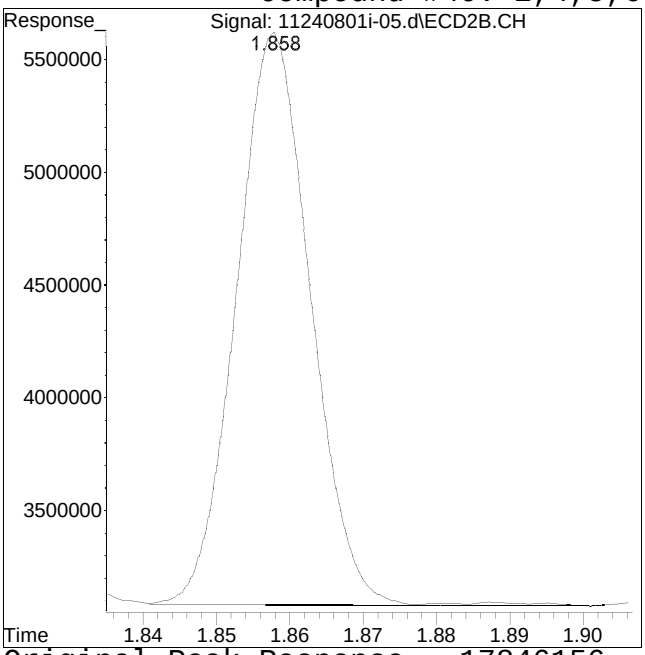
Manual Peak Response = 19656914 M4

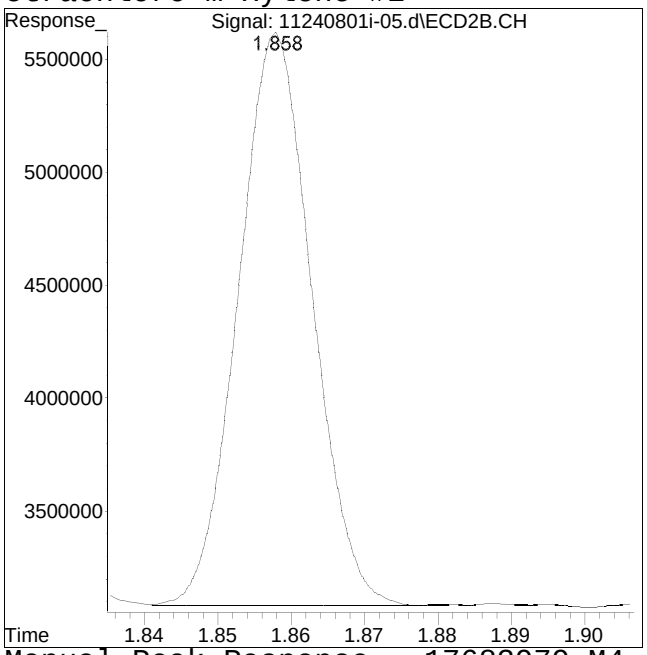
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



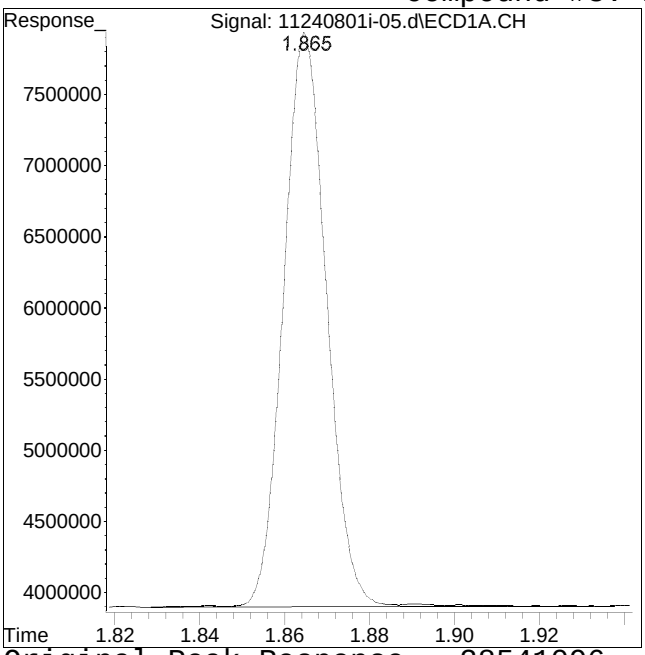


Original Peak Response = 17846156 Manual Peak Response = 17683979 M4
M4 = Poor automated baseline construction.

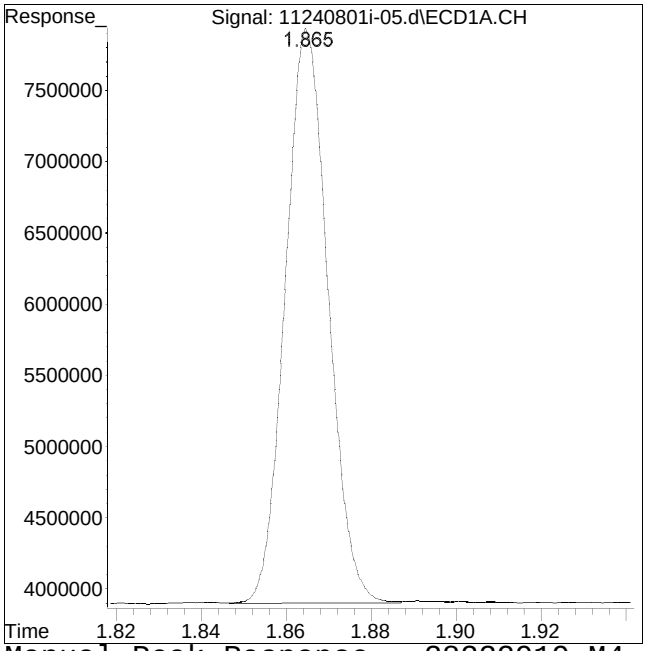
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #3: Hexachlorobenzene



Original Peak Response = 28541096



Manual Peak Response = 28232919 M4

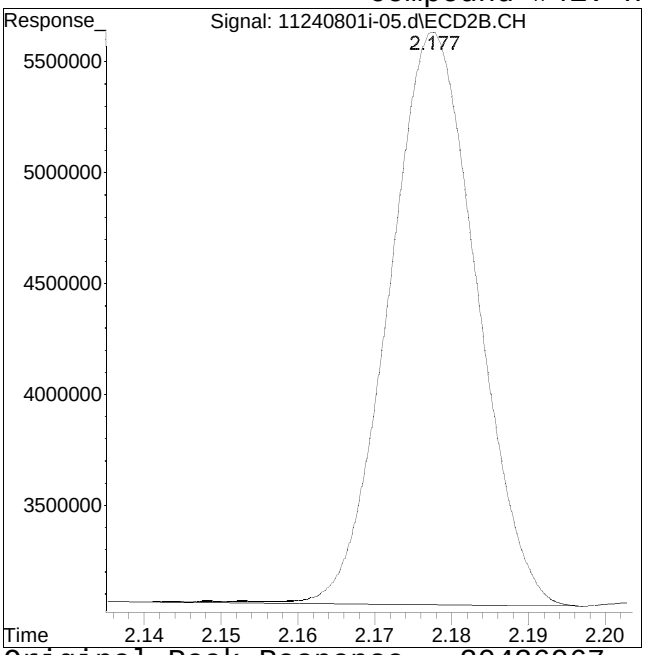
M4 = Poor automated baseline construction.

Manual Integration Report

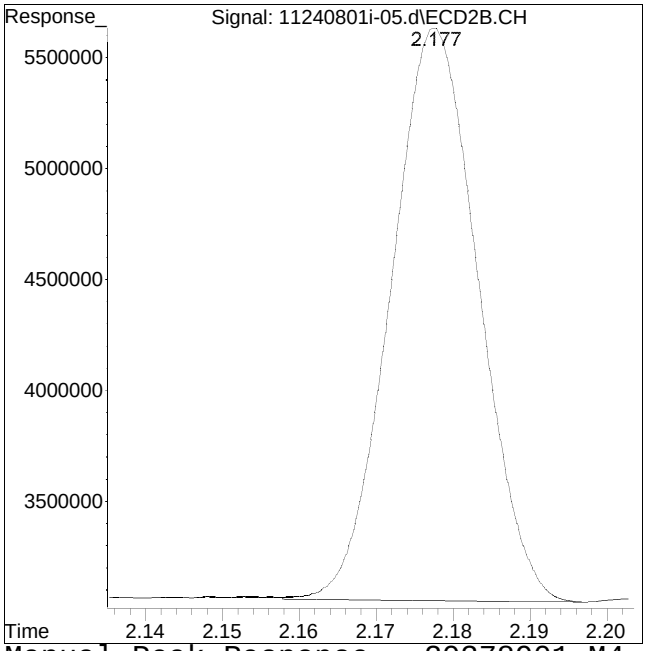
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 20436967



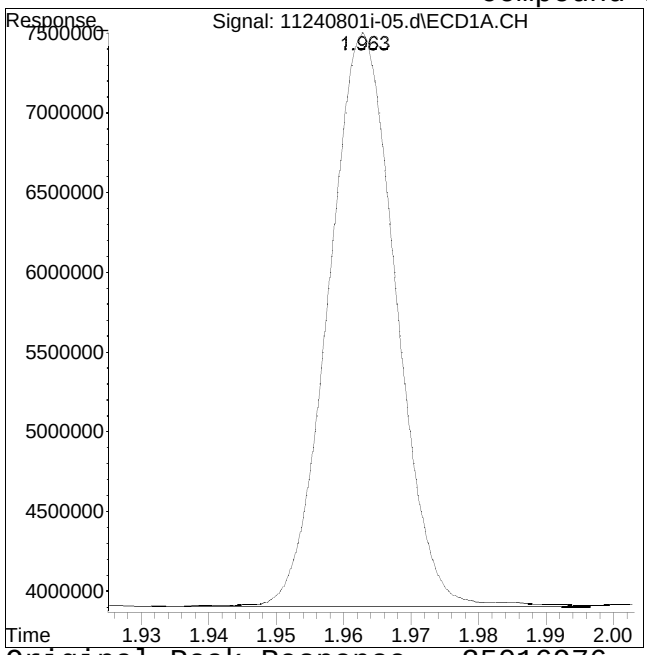
Manual Peak Response = 20378901 M4

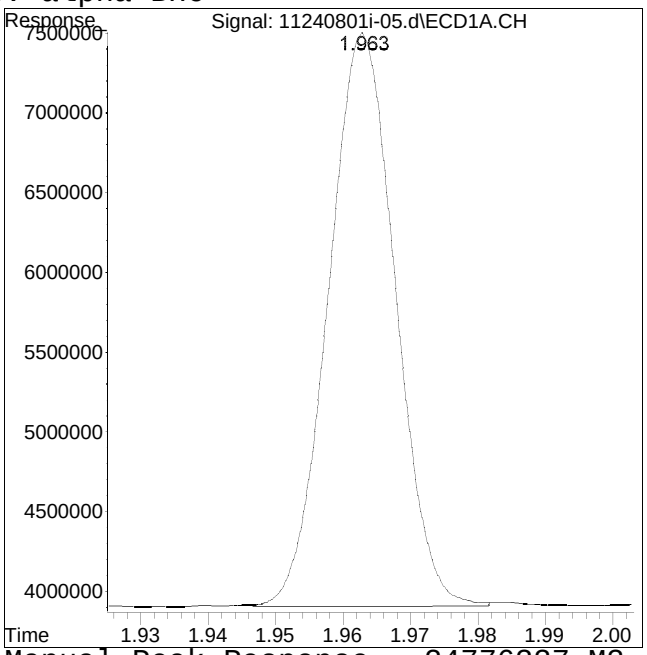
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0 Quant Date : 8/2/2024 11:14 am

Compound #4: alpha-BHC



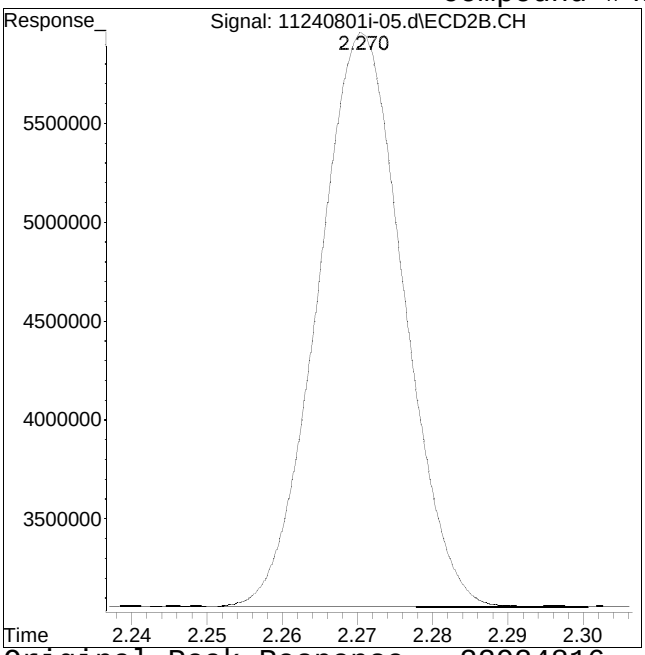


Original Peak Response = 25016976 Manual Peak Response = 24776337 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

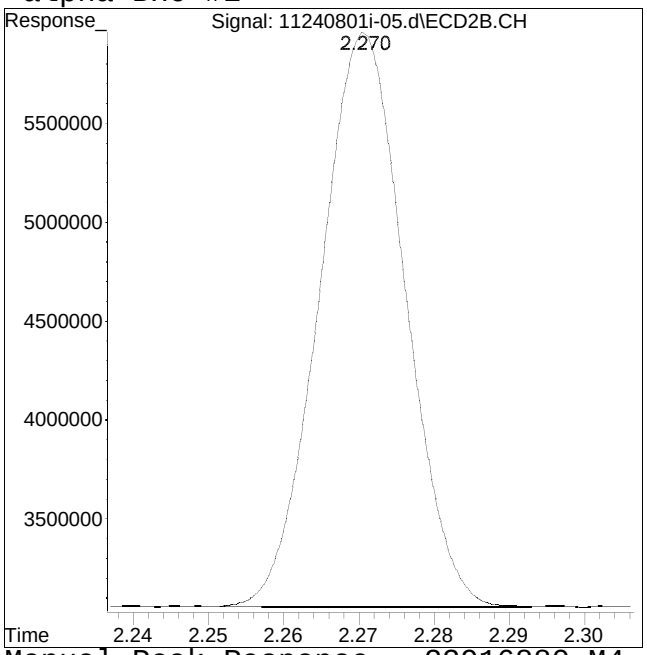
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #42: alpha-BHC #2



Original Peak Response = 22924816



Manual Peak Response = 22916880 M4

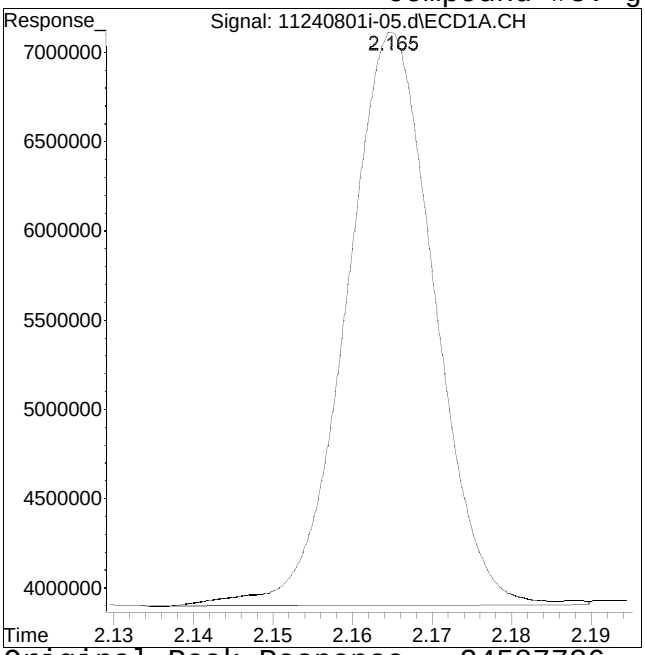
M4 = Poor automated baseline construction.

Manual Integration Report

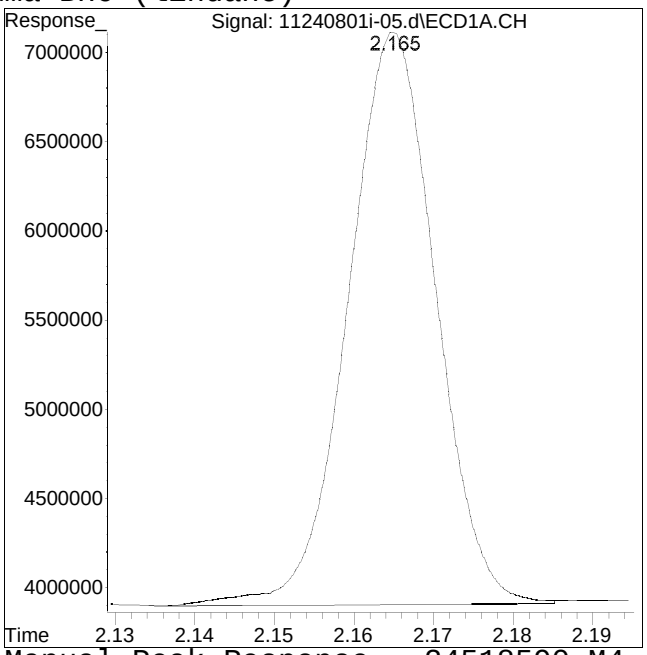
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 24587736



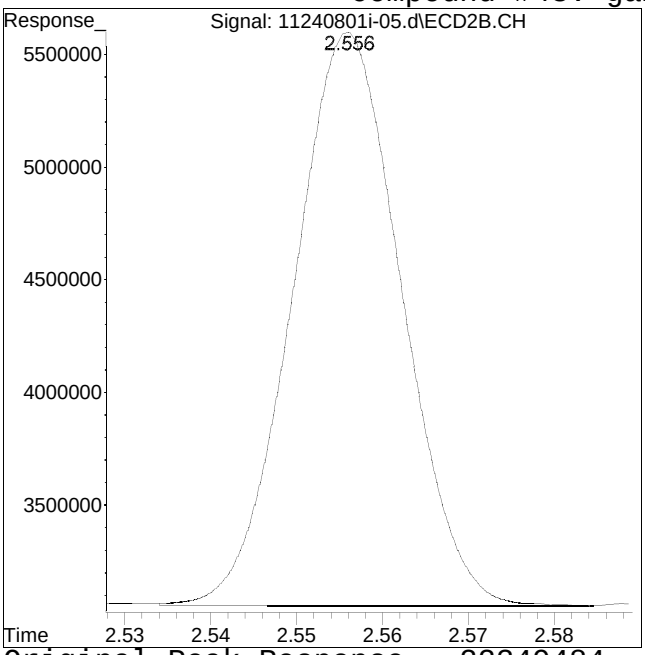
Manual Peak Response = 24518590 M4

M4 = Poor automated baseline construction.

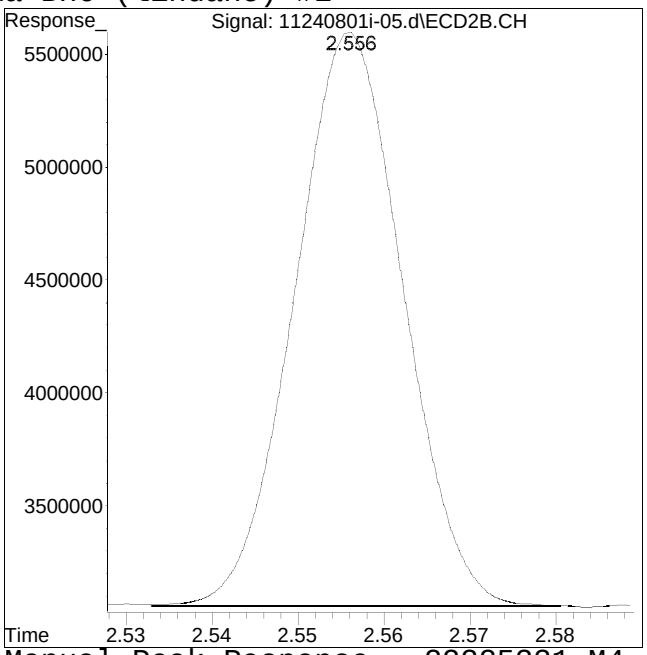
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 22349484



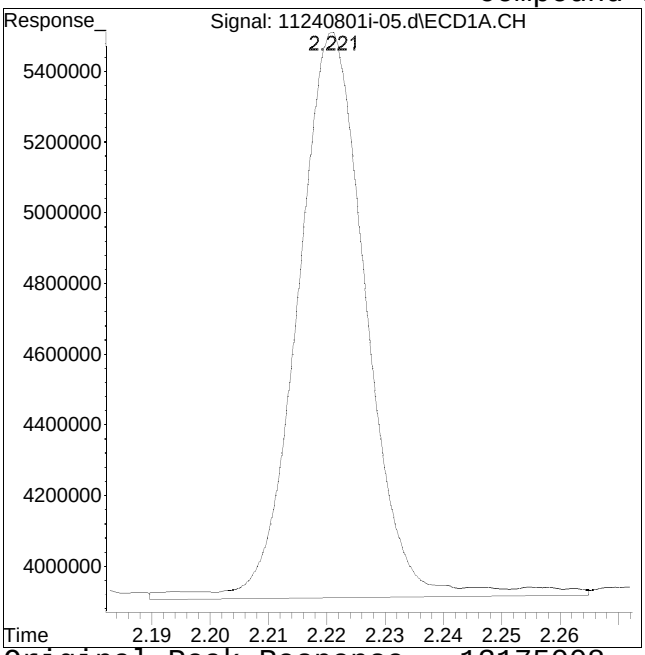
Manual Peak Response = 22225331 M4

M4 = Poor automated baseline construction.

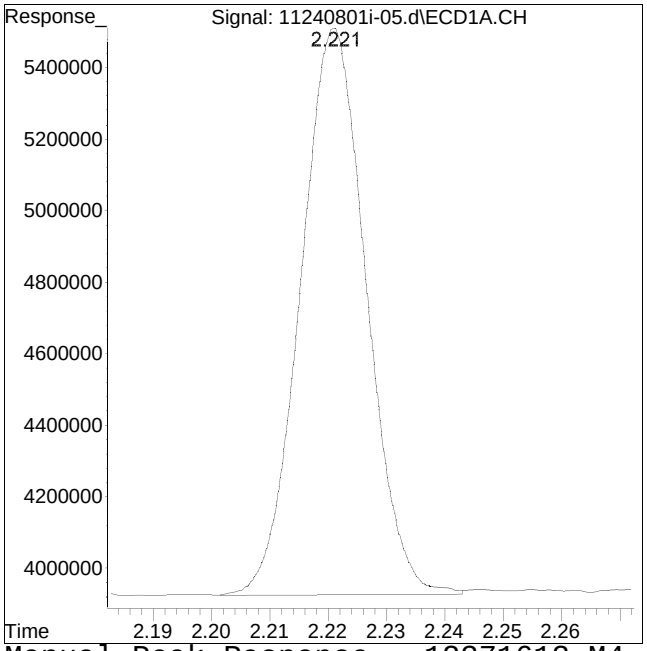
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #6: beta-BHC



Original Peak Response = 13175008



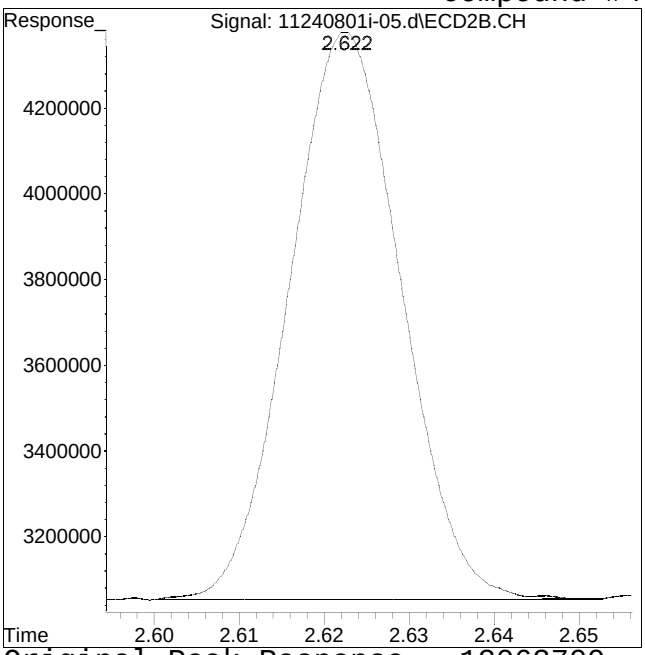
Manual Peak Response = 12371613 M4

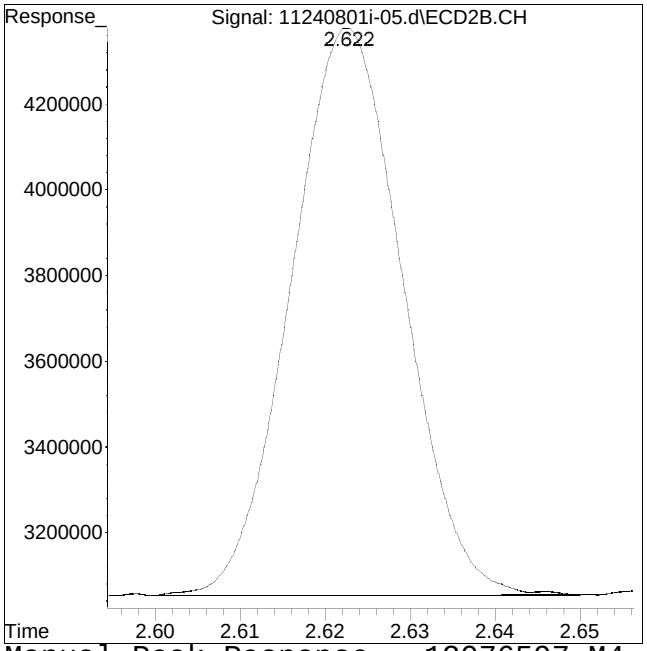
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #44: beta-BHC #2



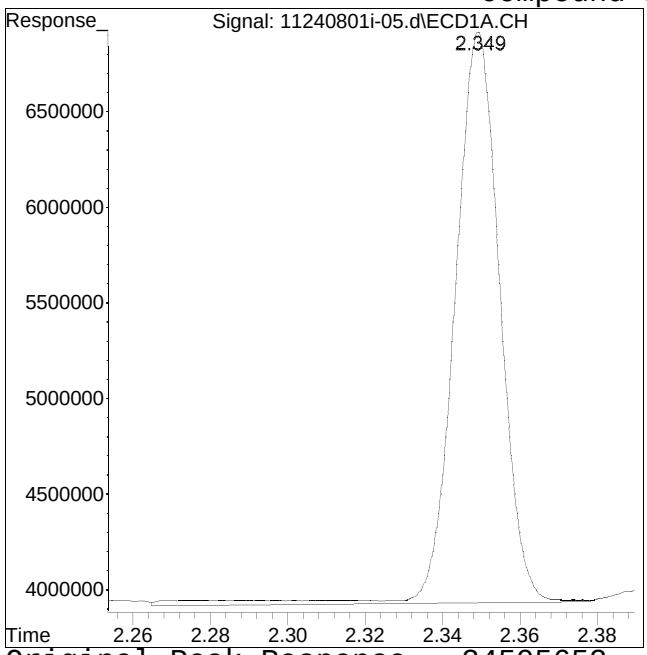


Original Peak Response = 12062700 Manual Peak Response = 12076597 M4
M4 = Poor automated baseline construction.

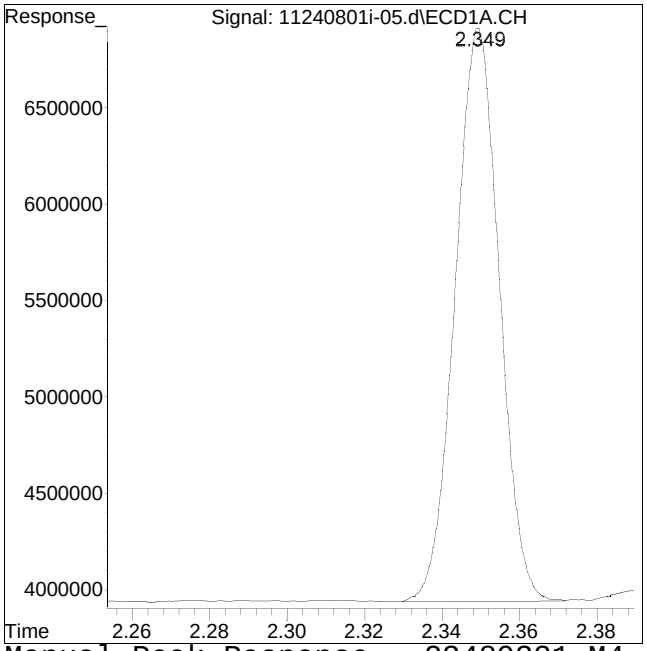
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #7: delta-BHC



Original Peak Response = 24505652



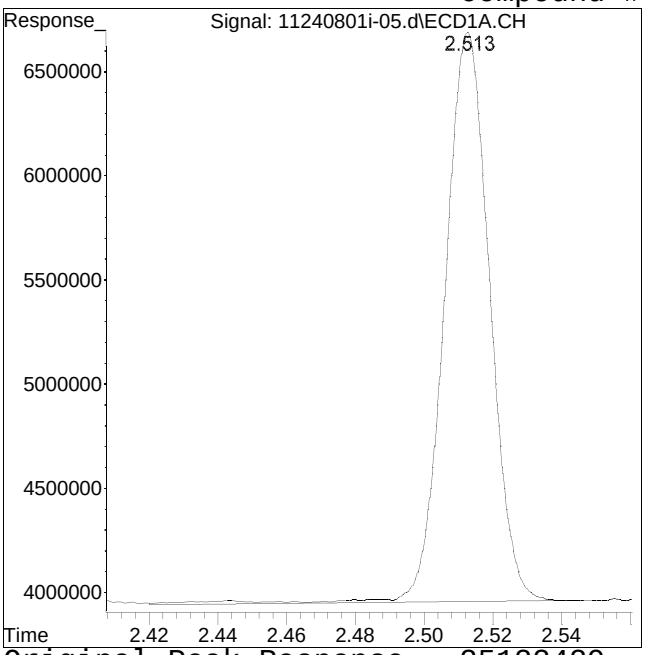
Manual Peak Response = 23489321 M4

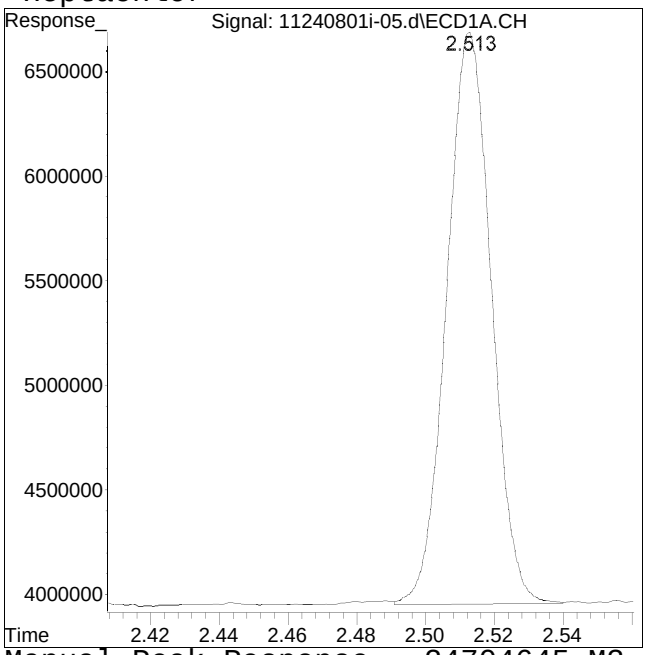
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #8: Heptachlor



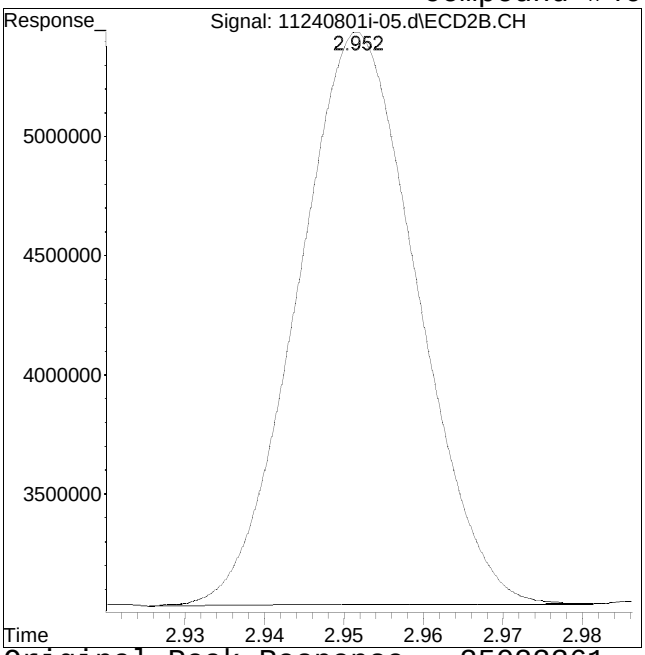


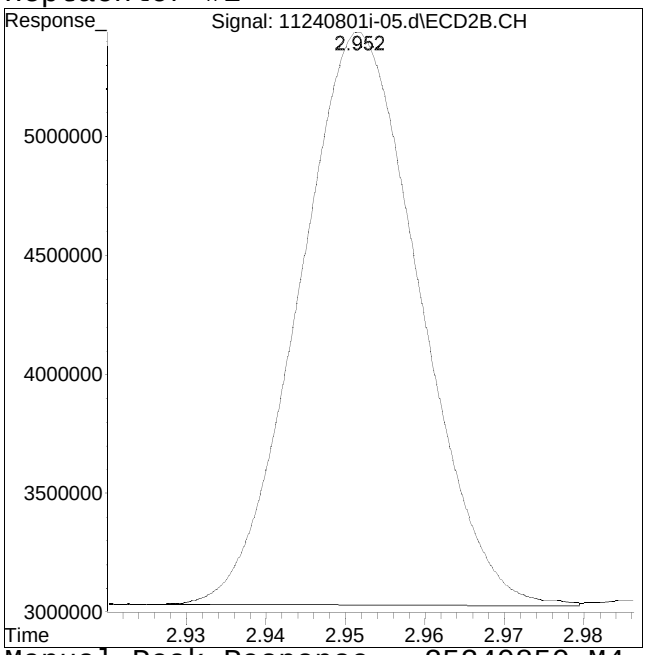
Original Peak Response = 25122429 Manual Peak Response = 24704645 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #46: Heptachlor #2



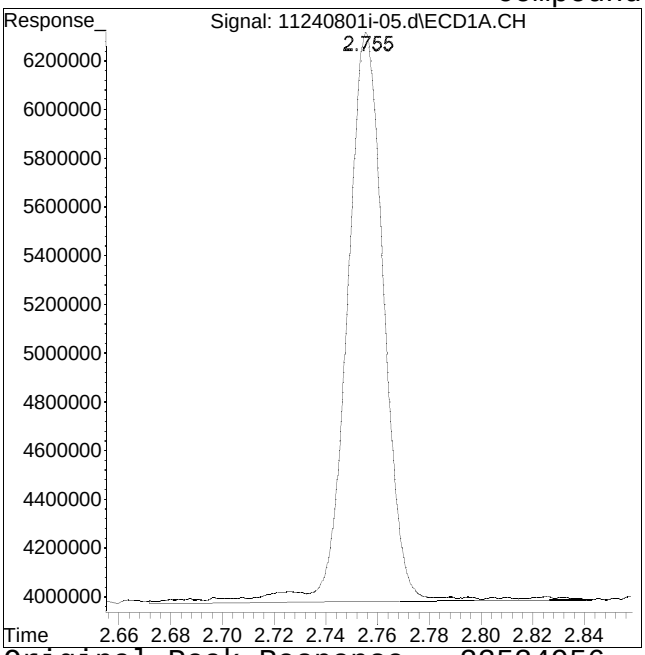


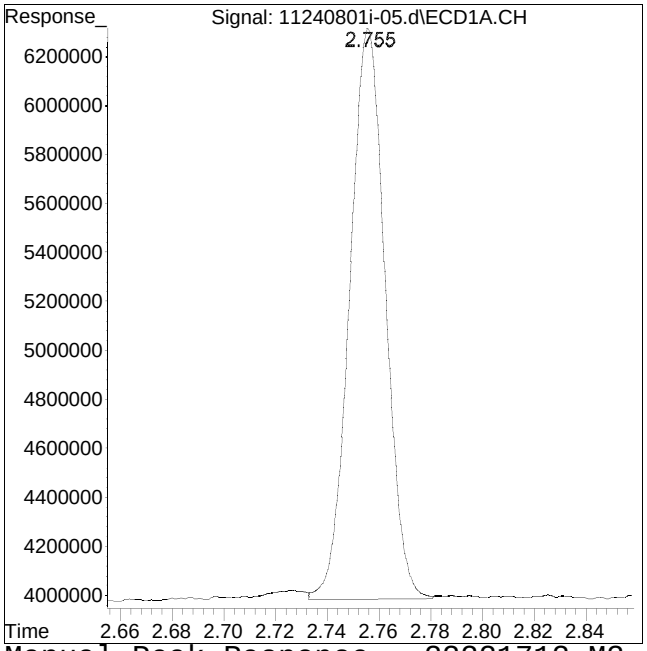
Original Peak Response = 25023361 Manual Peak Response = 25240850 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #9: Aldrin





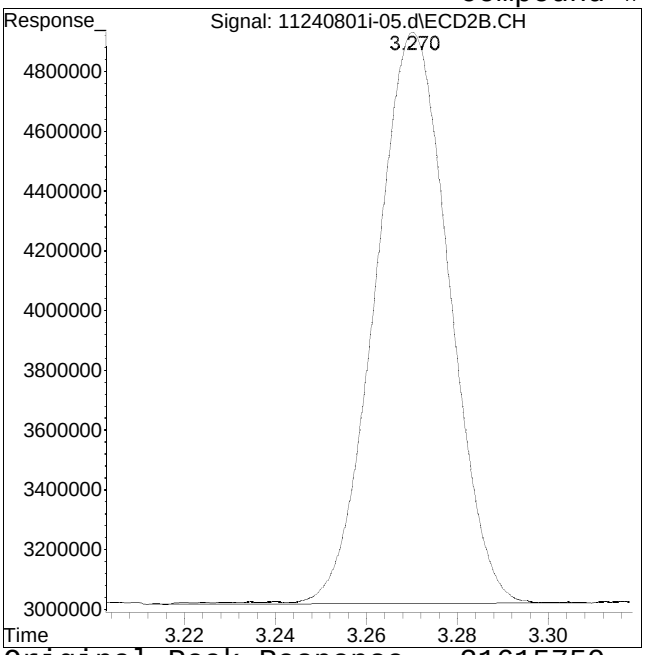
Original Peak Response = 23534956 Manual Peak Response = 22221712 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

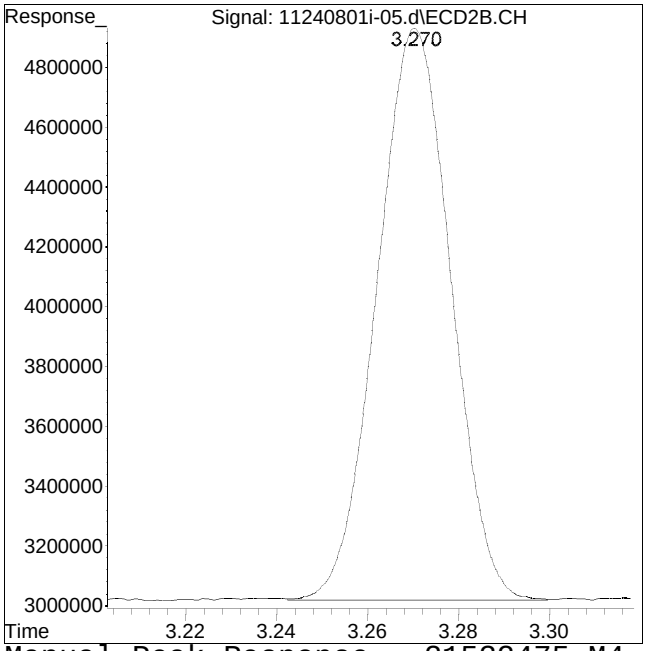
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #47: Aldrin #2



Original Peak Response = 21615750



Manual Peak Response = 21532475 M4

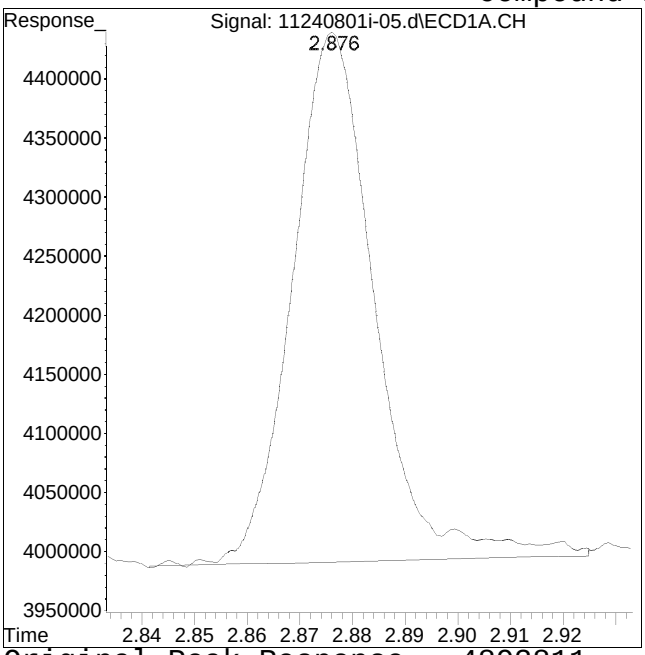
M4 = Poor automated baseline construction.

Manual Integration Report

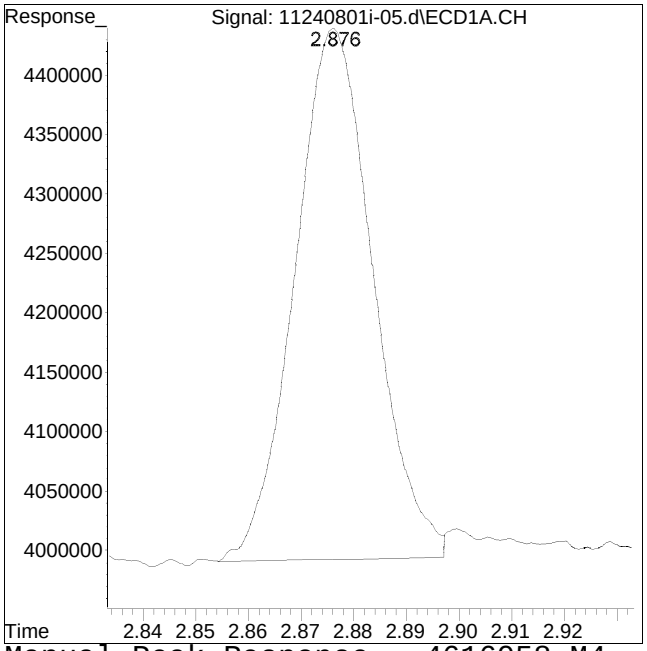
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #10: Alachlor



Original Peak Response = 4893811



Manual Peak Response = 4616058 M4

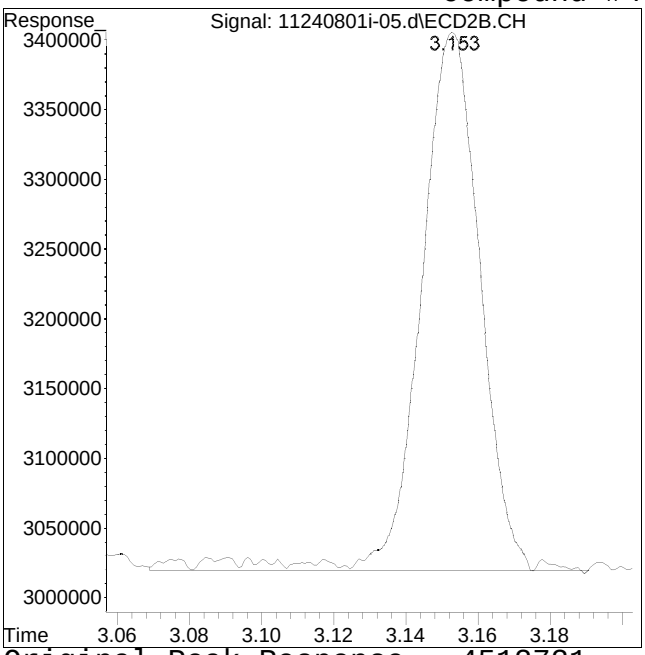
M4 = Poor automated baseline construction.

Manual Integration Report

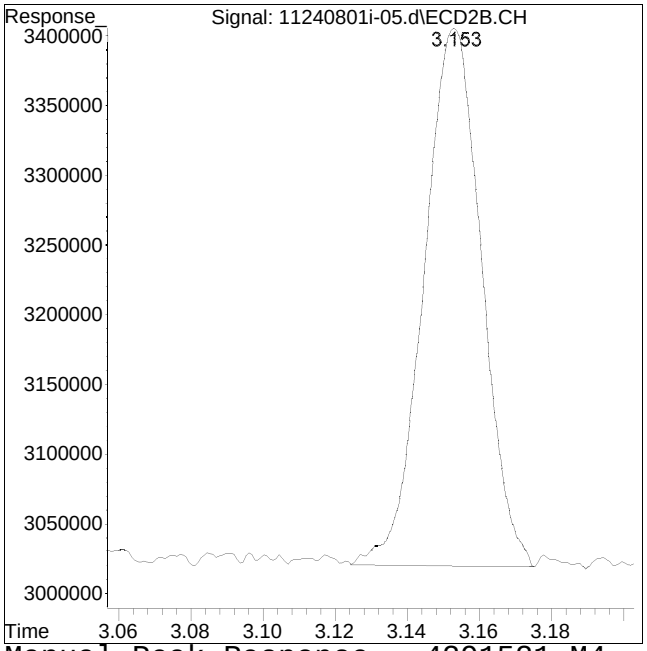
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #48: Alachlor #2



Original Peak Response = 4512721



Manual Peak Response = 4291521 M4

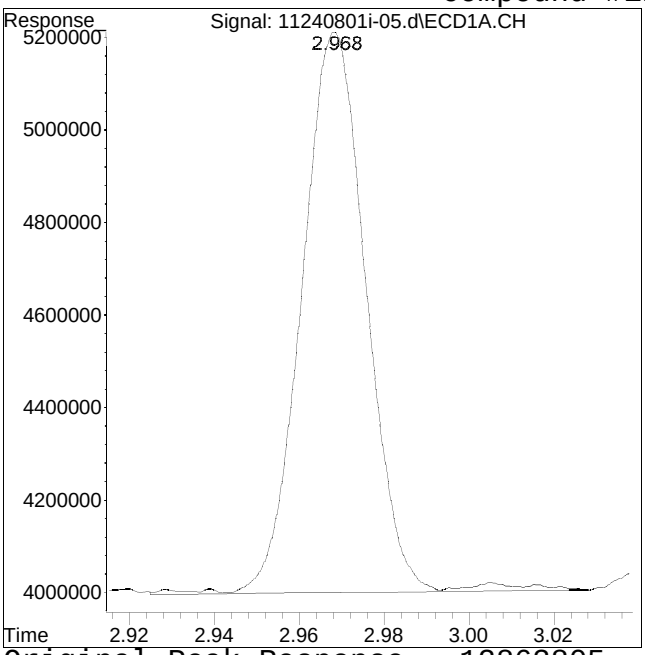
M4 = Poor automated baseline construction.

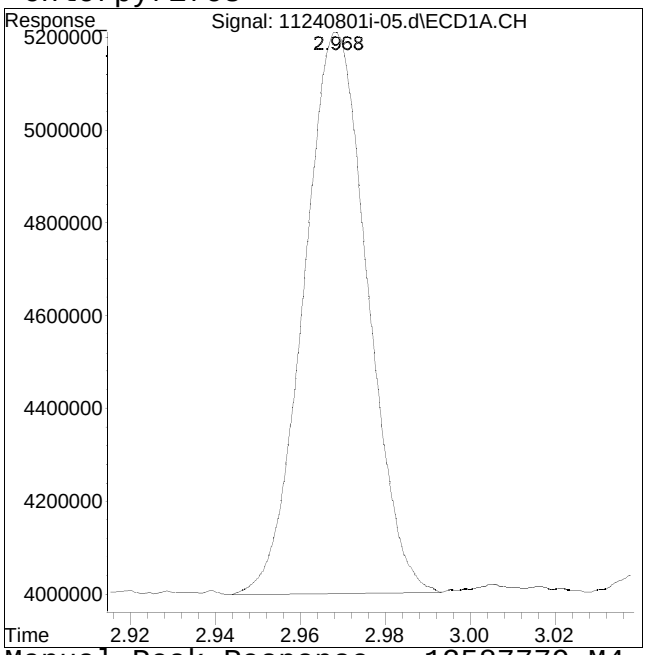
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #11: Chlorpyrifos



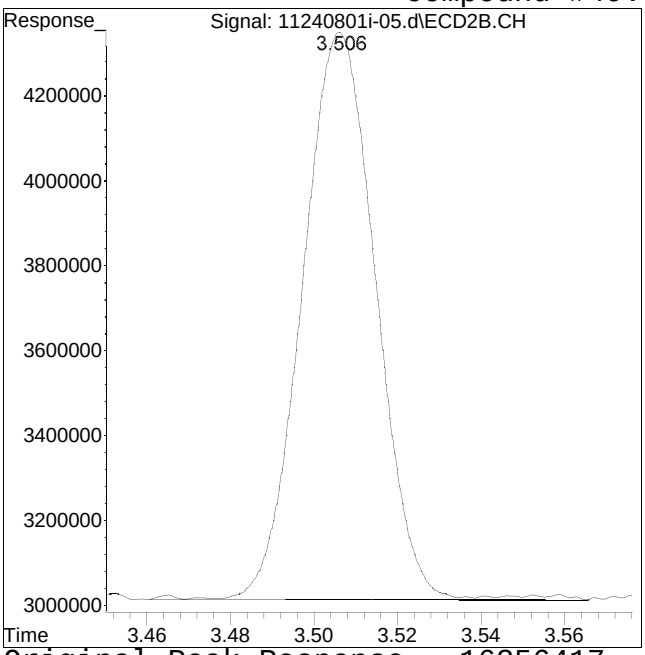


Original Peak Response = 12863805 Manual Peak Response = 12587779 M4
M4 = Poor automated baseline construction.

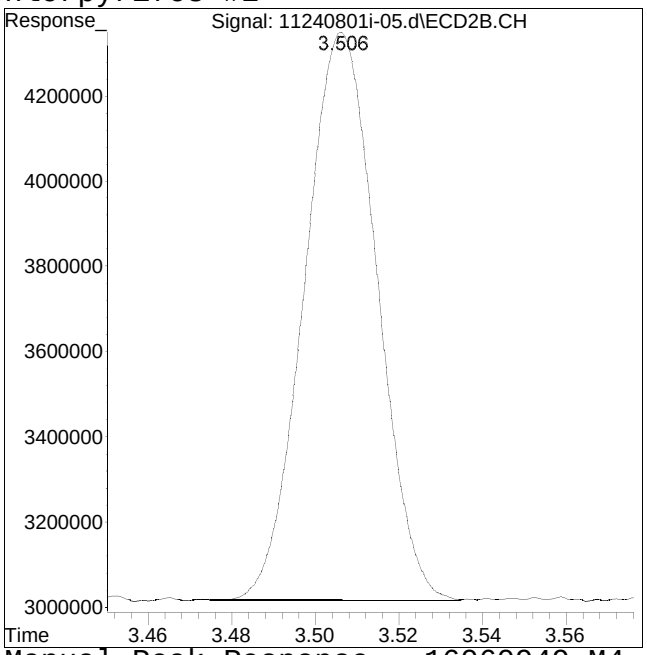
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 16356417



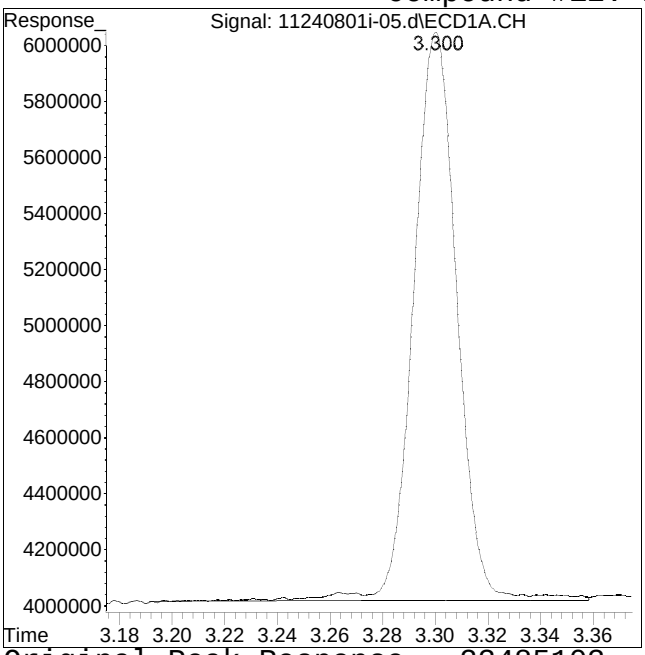
Manual Peak Response = 16060949 M4

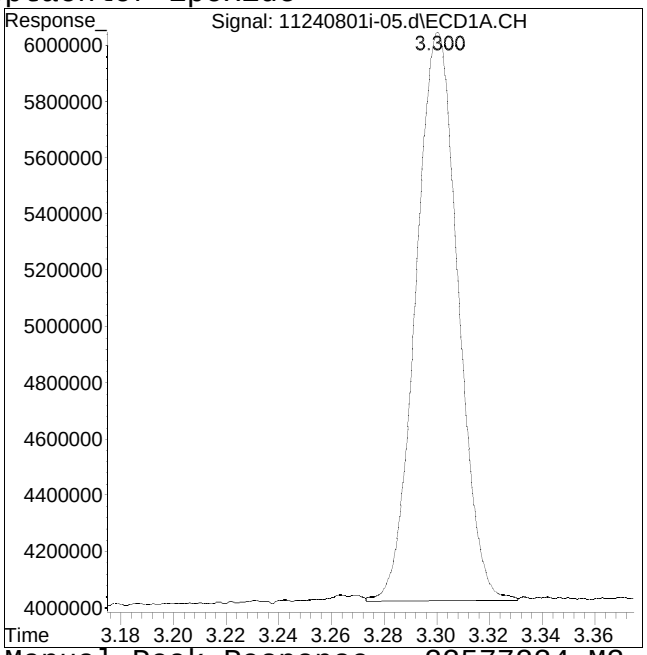
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #12: Heptachlor Epoxide



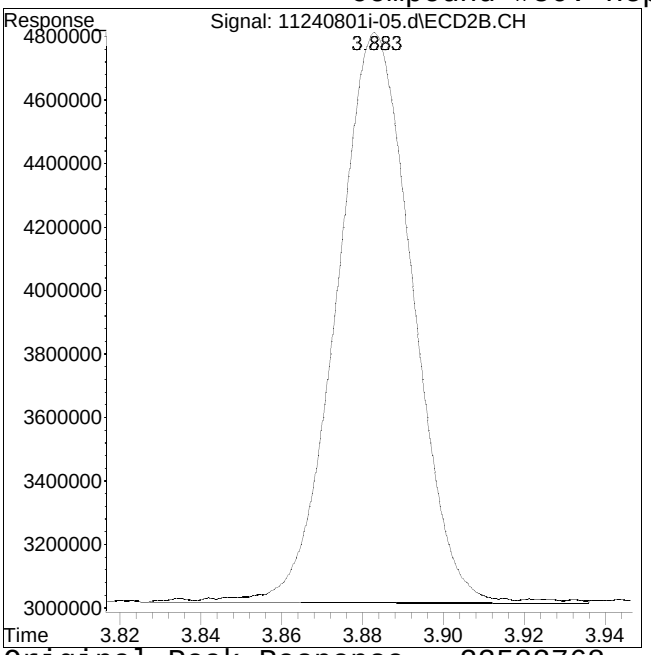


Original Peak Response = 23485103 Manual Peak Response = 22577234 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

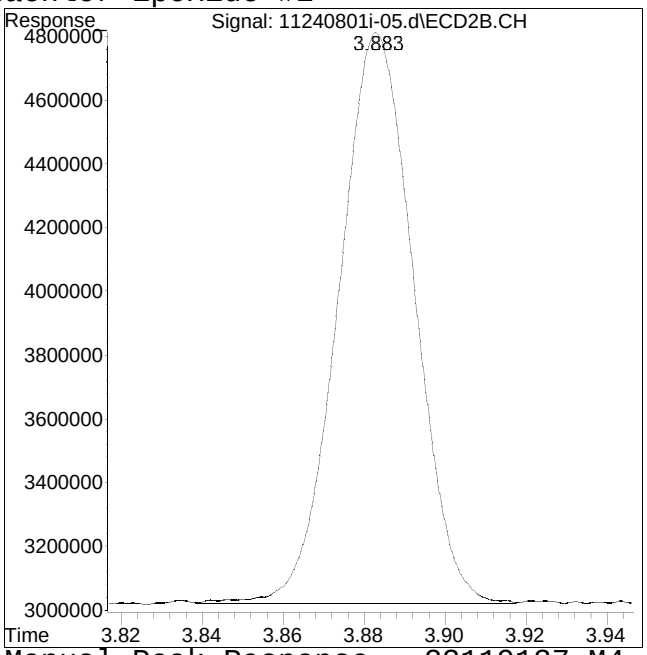
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 23522768



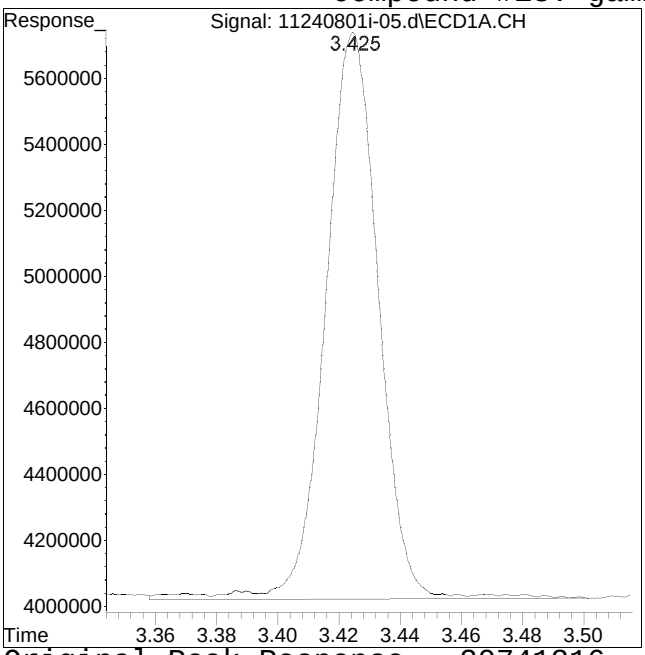
Manual Peak Response = 23119137 M4

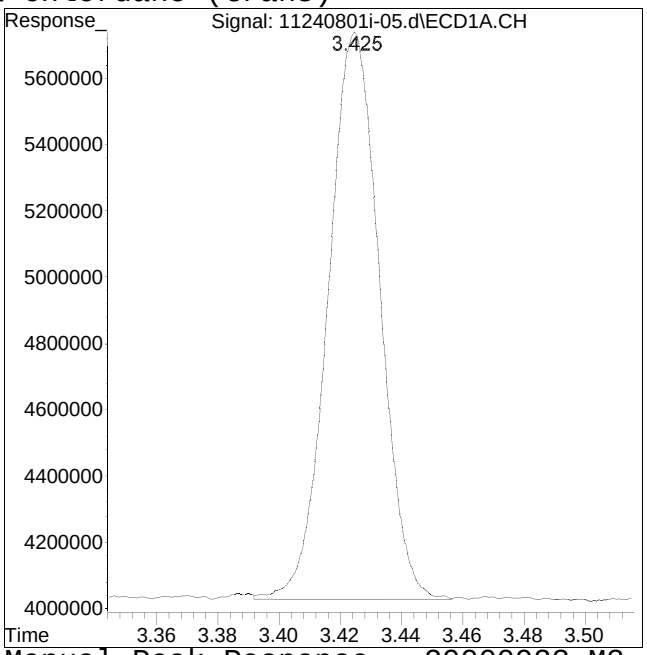
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #13: gamma-Chlordane (trans)





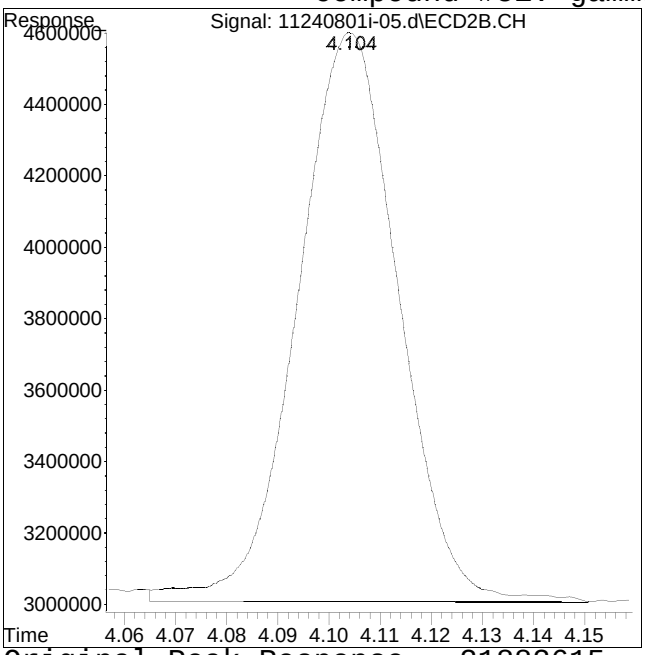
Original Peak Response = 20741216 Manual Peak Response = 20000923 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

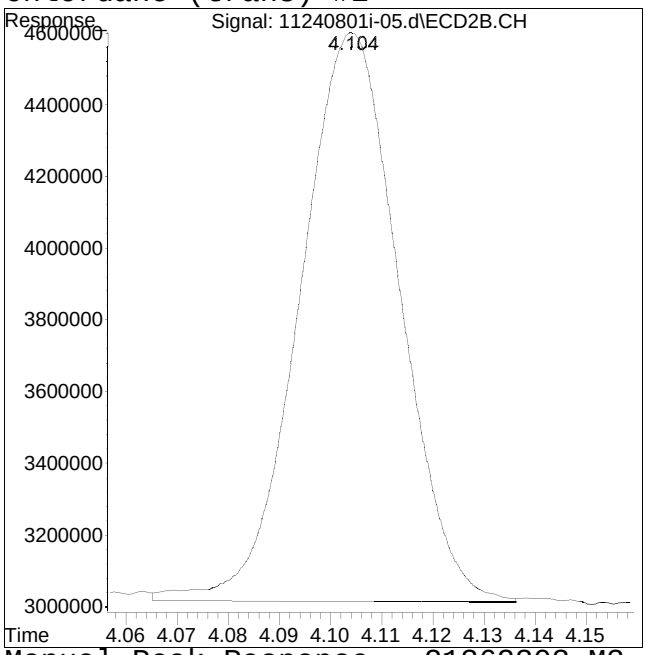
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #51: gamma-Chlordane (trans) #2





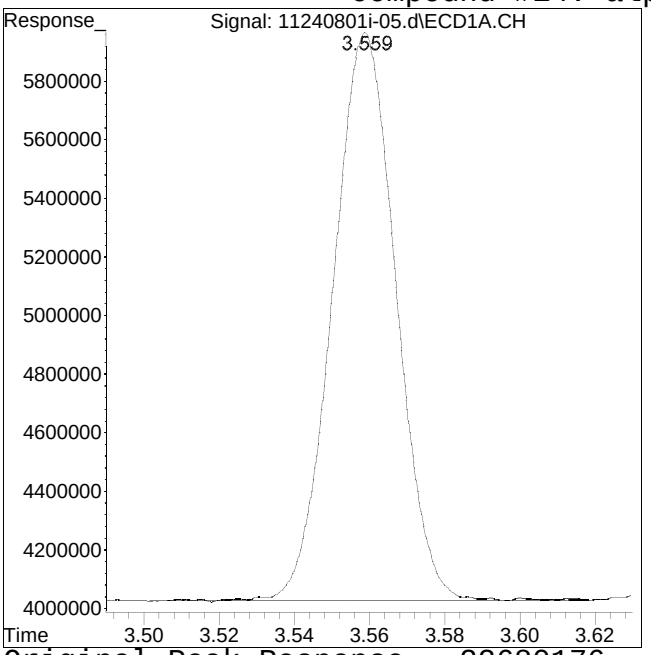
Original Peak Response = 21882615 Manual Peak Response = 21362303 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

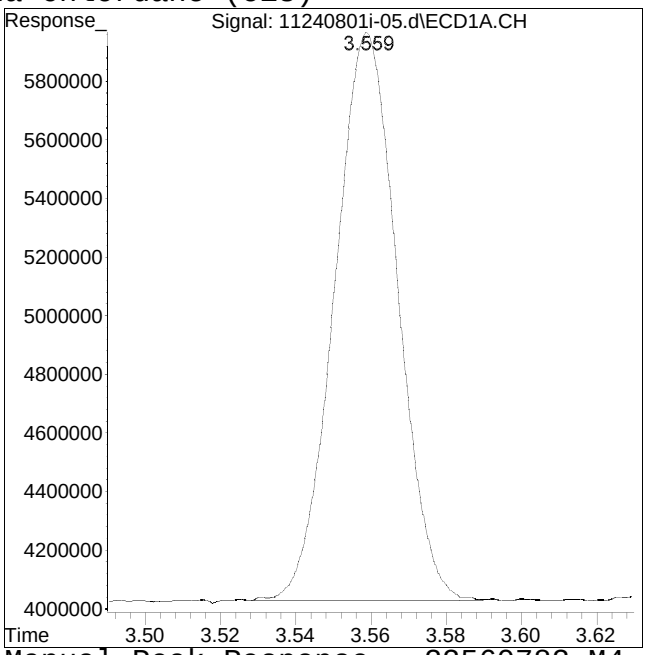
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 22680176

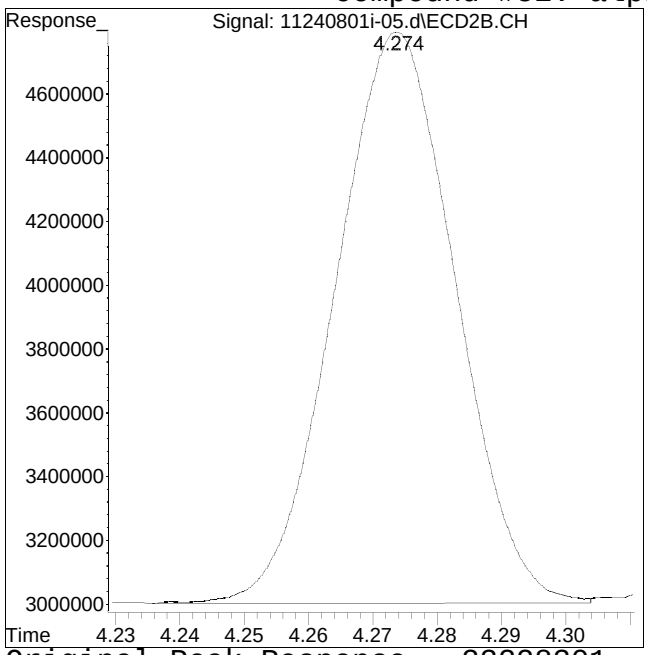


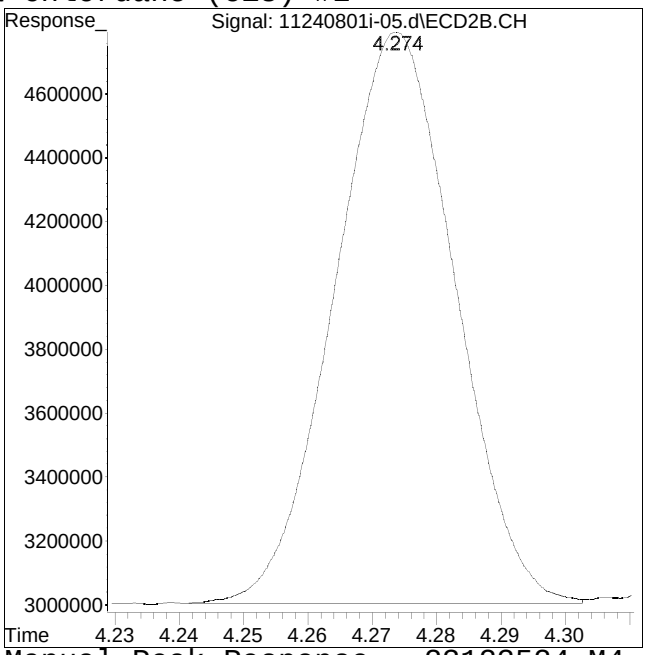
Manual Peak Response = 22560782 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #52: alpha-Chlordane (cis) #2





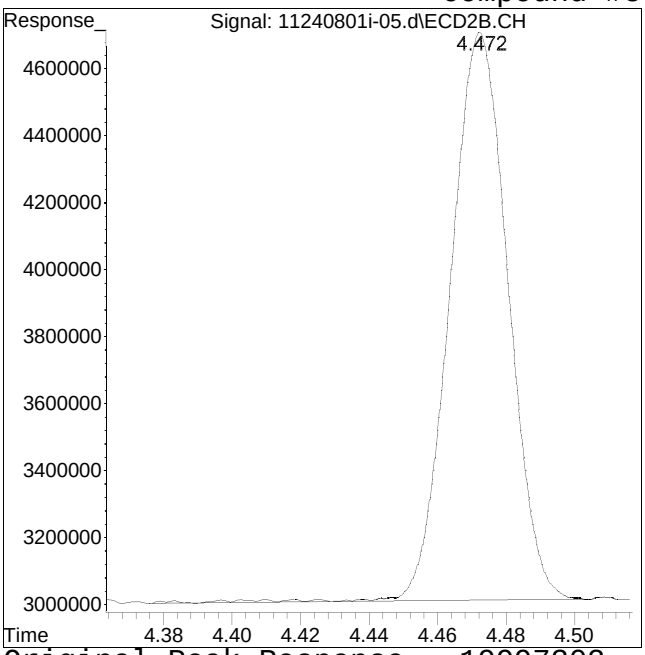
Original Peak Response = 23228301 Manual Peak Response = 23123524 M4
M4 = Poor automated baseline construction.

Manual Integration Report

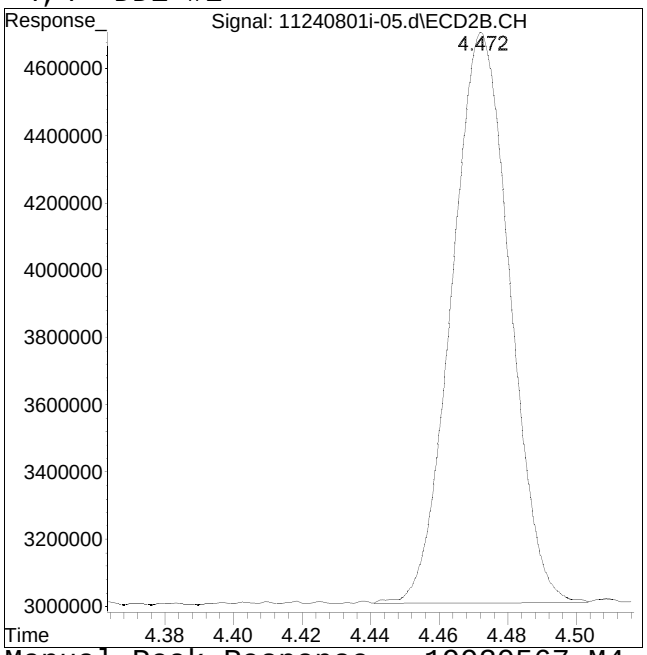
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 19997302



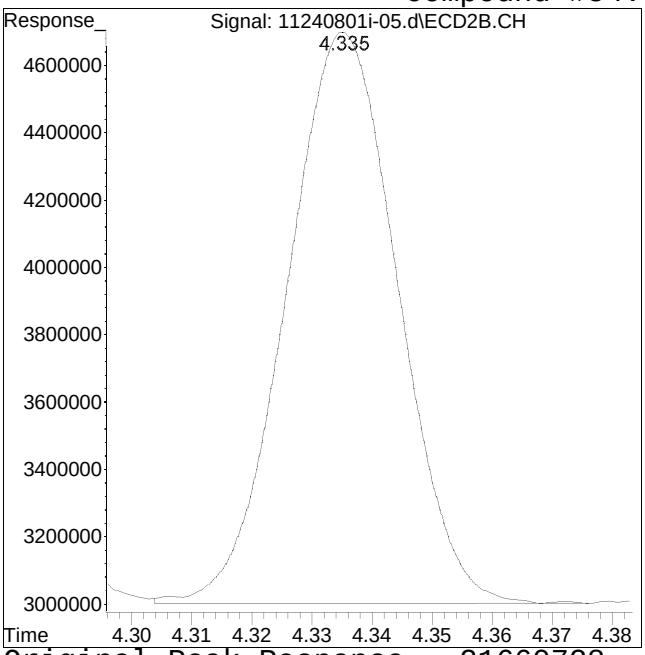
Manual Peak Response = 19930567 M4

M4 = Poor automated baseline construction.

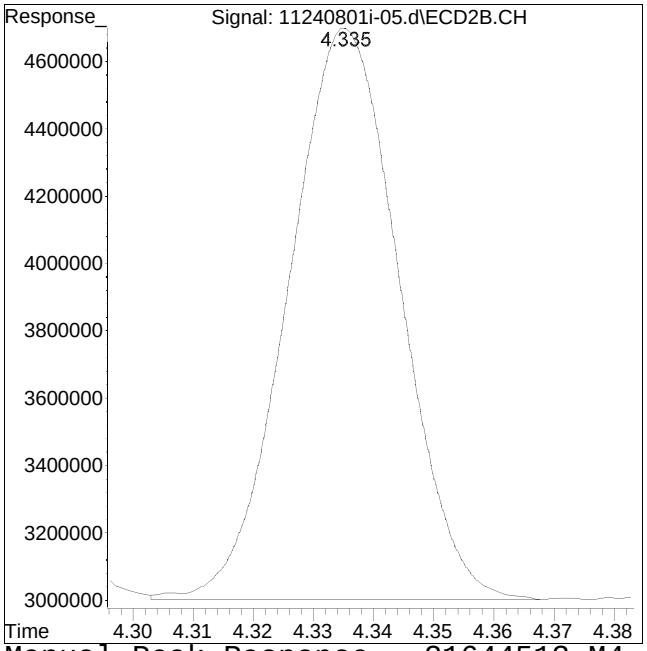
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #54: Endosulfan I #2



Original Peak Response = 21660728



Manual Peak Response = 21644513 M4

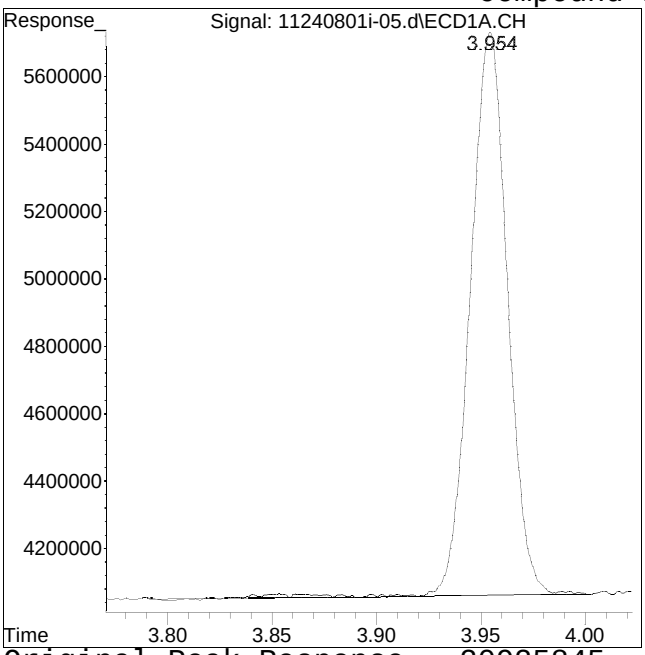
M4 = Poor automated baseline construction.

Manual Integration Report

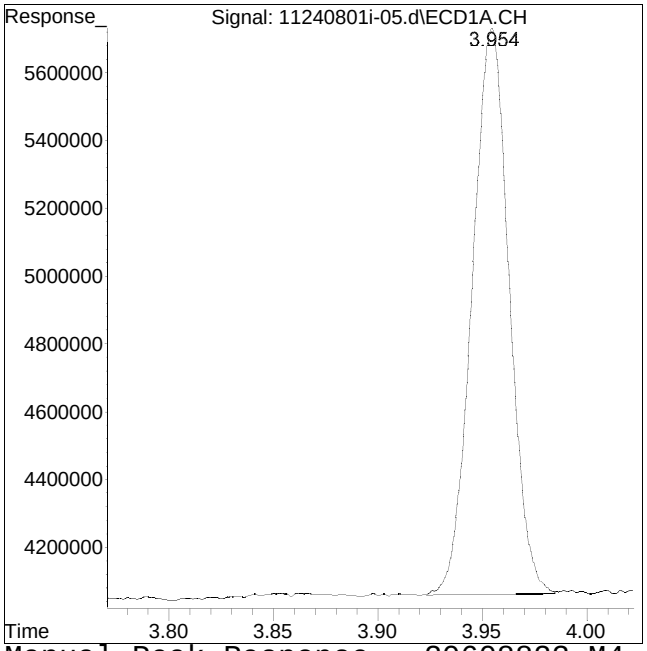
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #17: Dieldrin



Original Peak Response = 20925845



Manual Peak Response = 20608823 M4

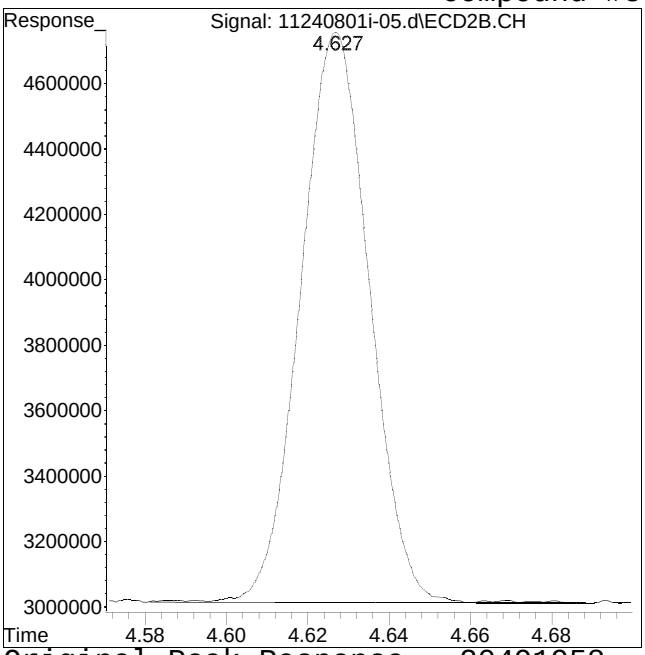
M4 = Poor automated baseline construction.

Manual Integration Report

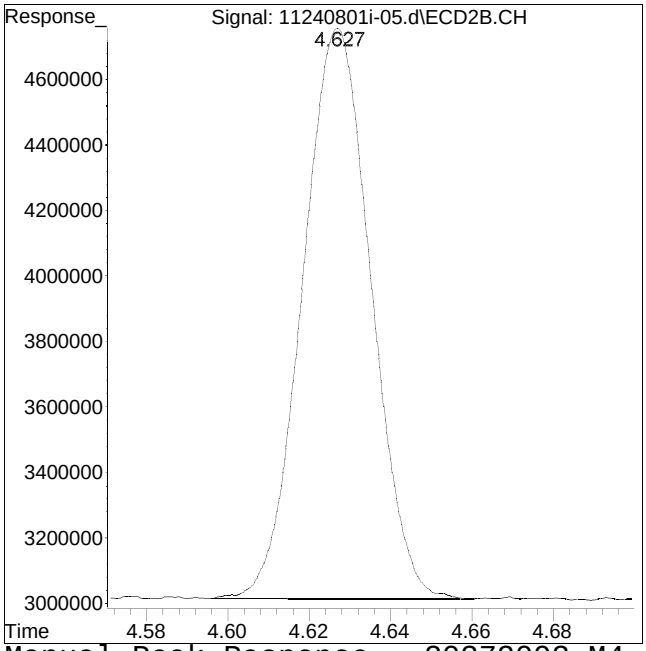
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #55: Dieldrin #2



Original Peak Response = 20491958



Manual Peak Response = 20372093 M4

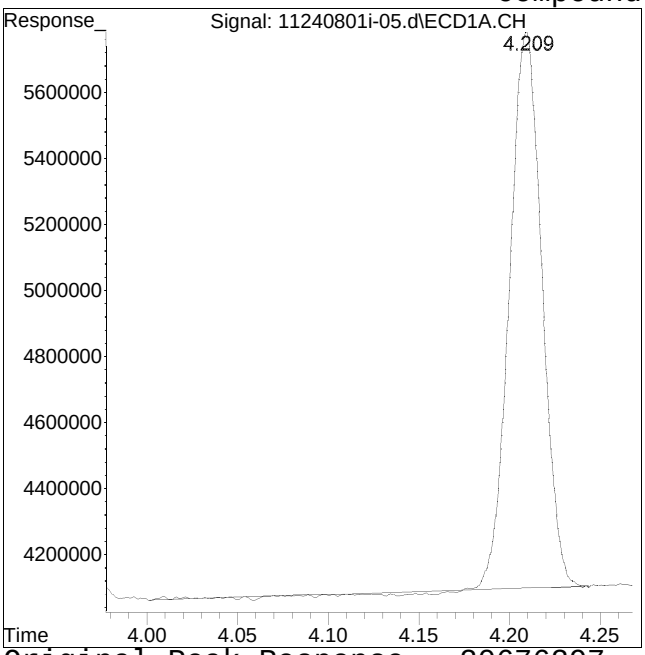
M4 = Poor automated baseline construction.

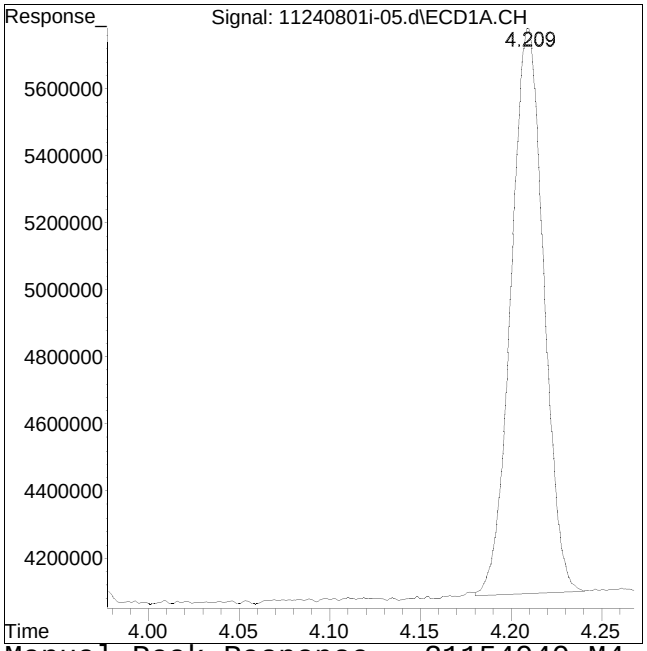
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #18: Endrin





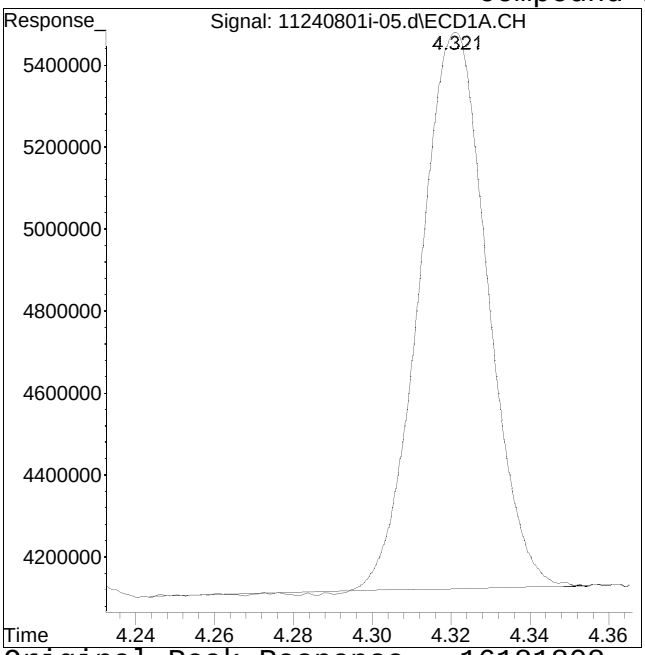
Original Peak Response = 20676297 Manual Peak Response = 21154040 M4
M4 = Poor automated baseline construction.

Manual Integration Report

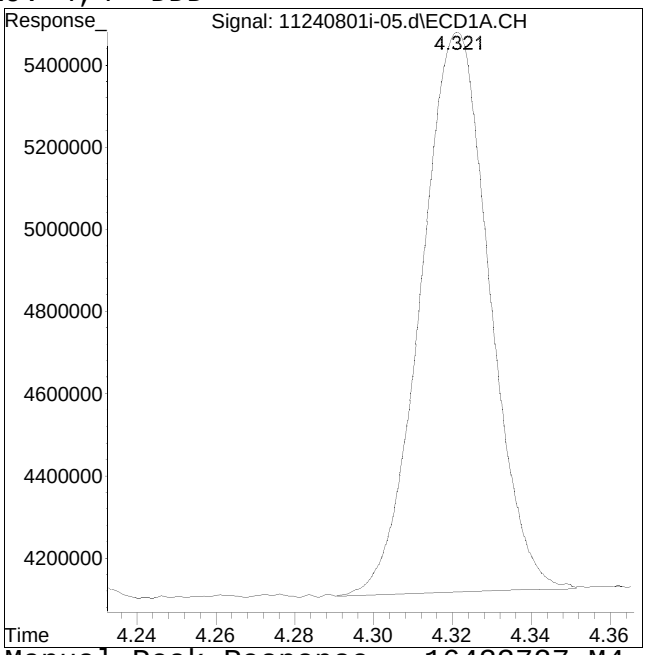
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #19: 4,4'-DDD



Original Peak Response = 16181808



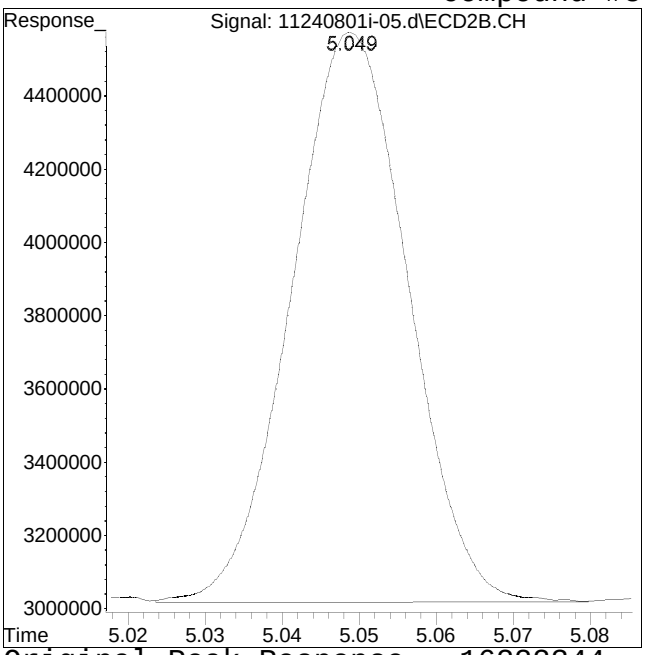
Manual Peak Response = 16433727 M4

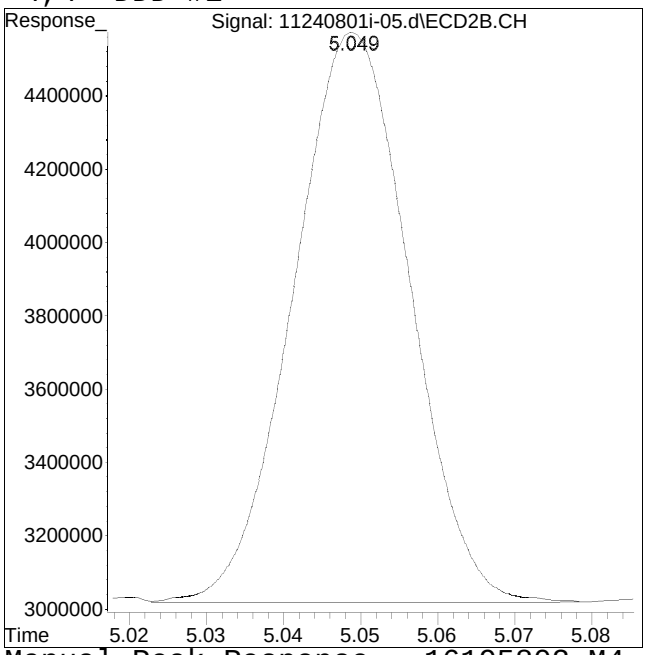
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #57: 4,4'-DDD #2





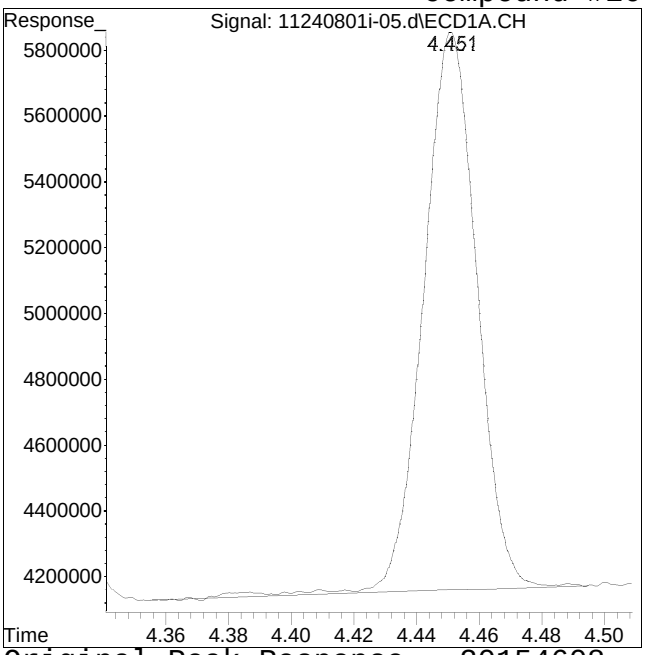
Original Peak Response = 16222344 Manual Peak Response = 16195802 M4
M4 = Poor automated baseline construction.

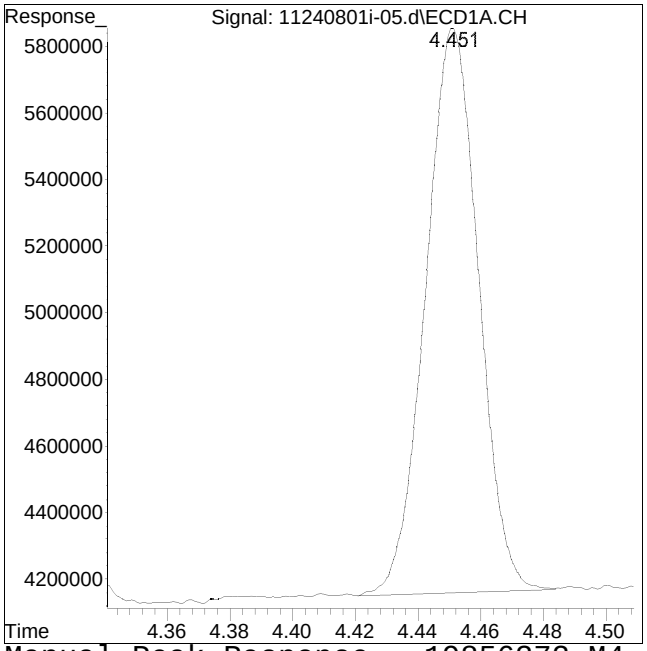
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #20: Endosulfan II



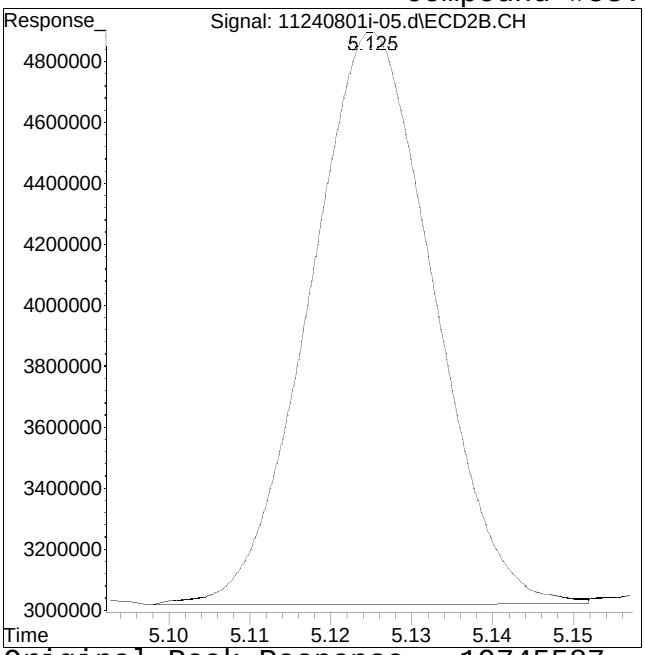


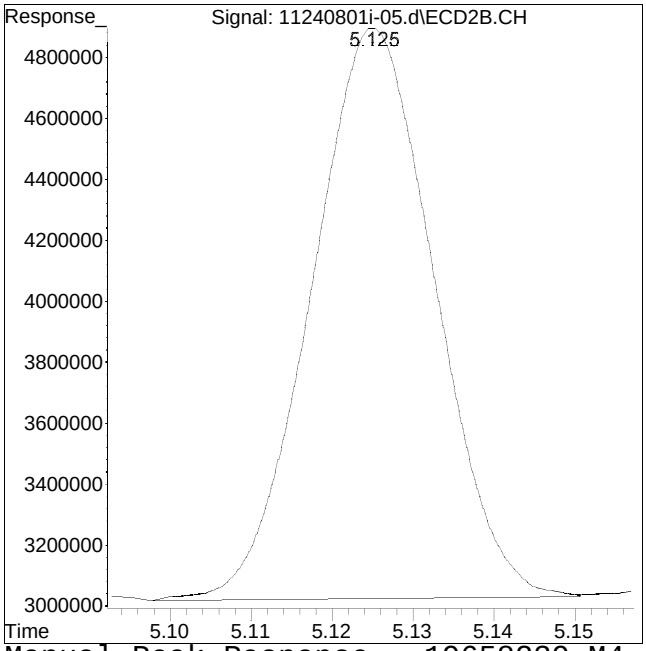
Original Peak Response = 20154608 Manual Peak Response = 19856372 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #58: Endosulfan II #2





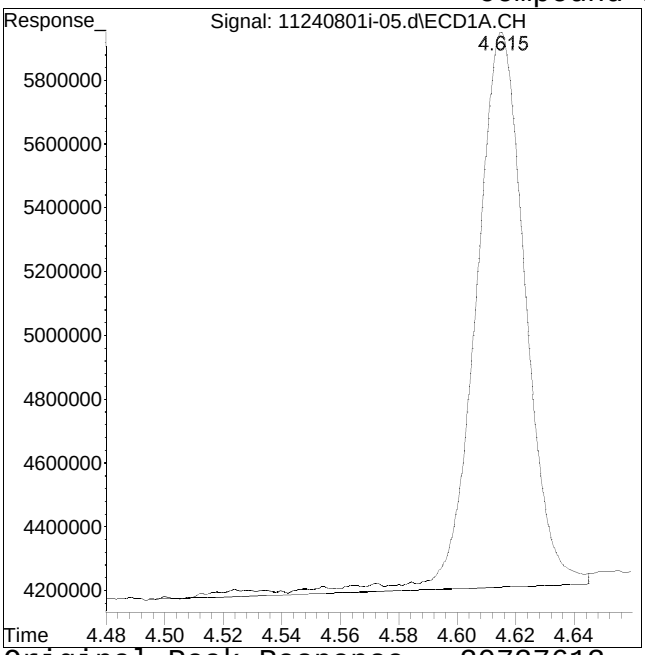
Original Peak Response = 19745587 Manual Peak Response = 19658239 M4
M4 = Poor automated baseline construction.

Manual Integration Report

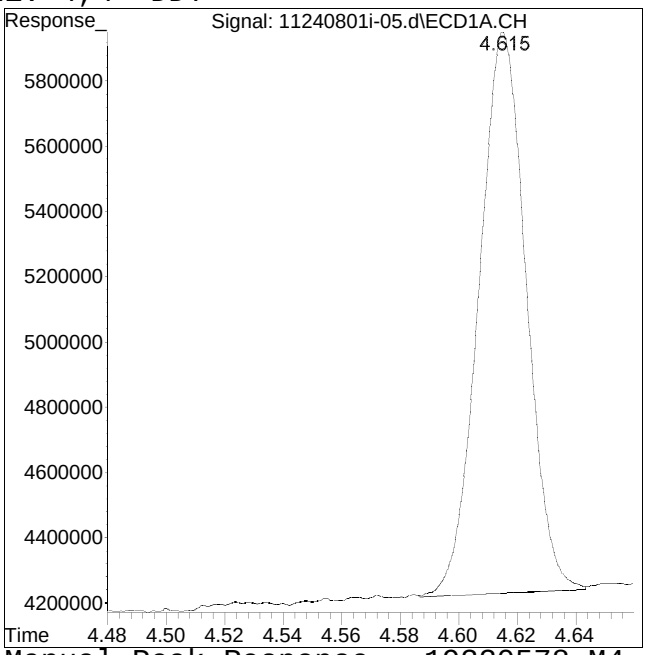
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #21: 4,4'-DDT



Original Peak Response = 20737613



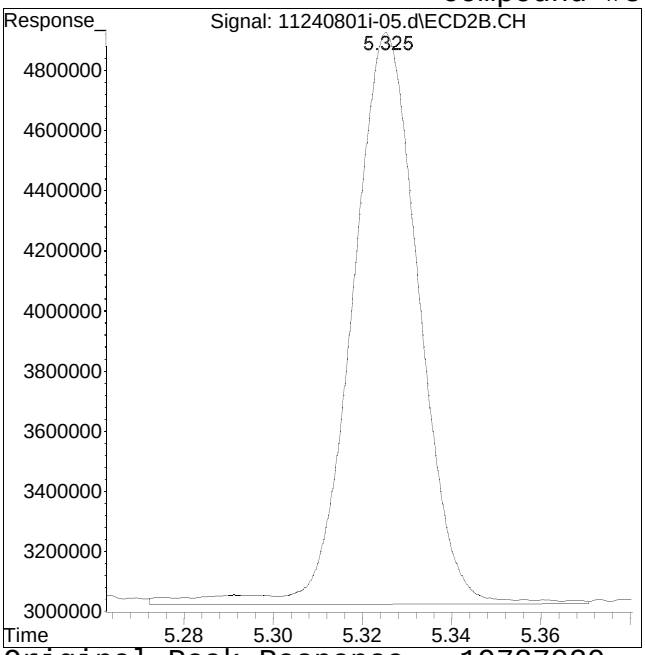
Manual Peak Response = 19330578 M4

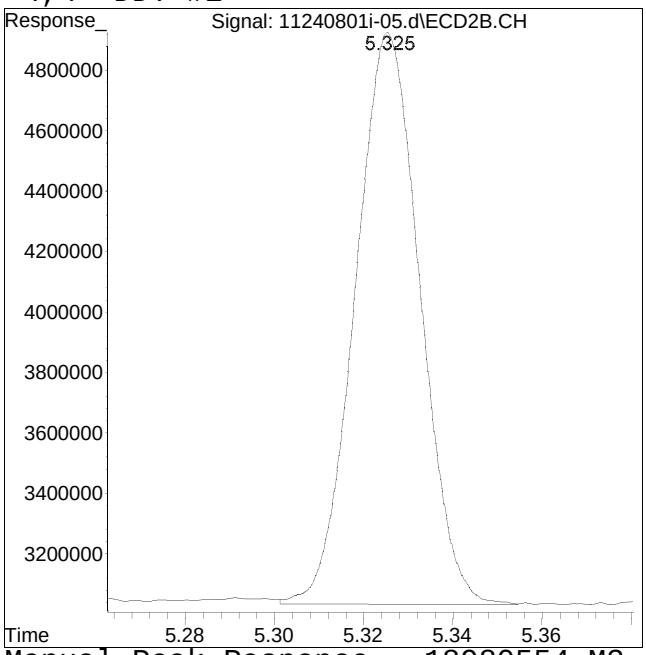
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #59: 4,4'-DDT #2





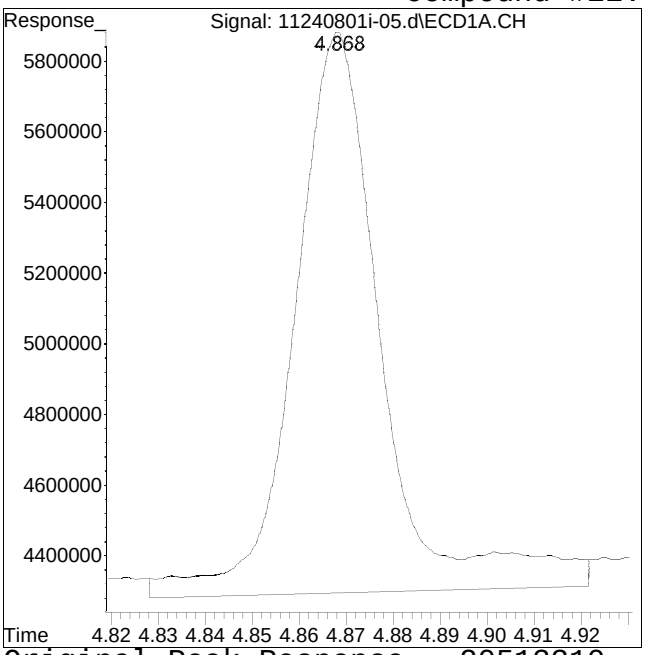
Original Peak Response = 19727930 Manual Peak Response = 18980554 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

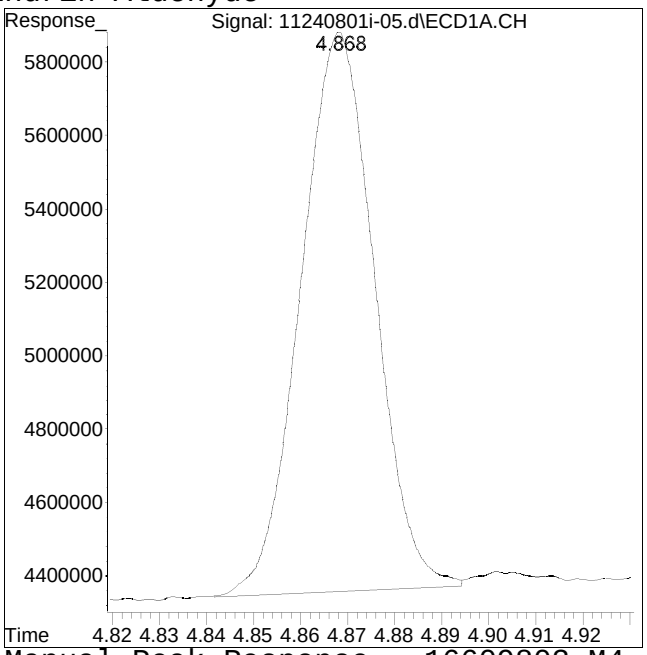
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #22: Endrin Aldehyde



Original Peak Response = 20513310



Manual Peak Response = 16609803 M4

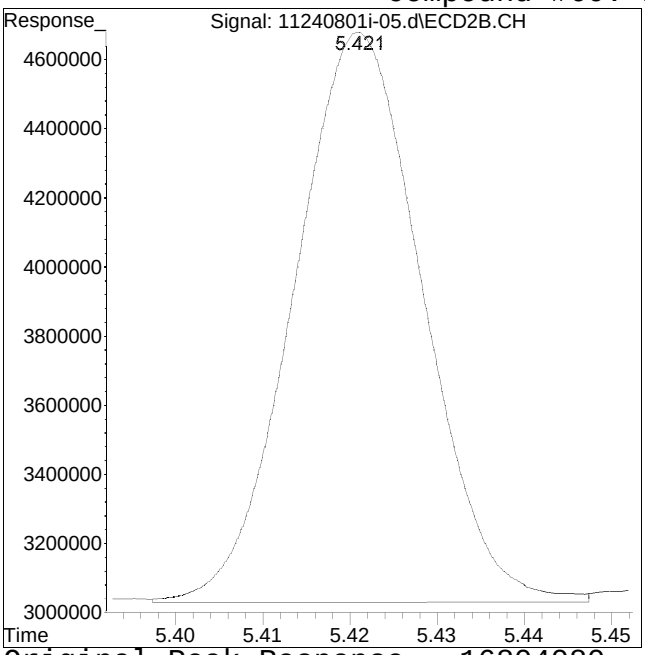
M4 = Poor automated baseline construction.

Manual Integration Report

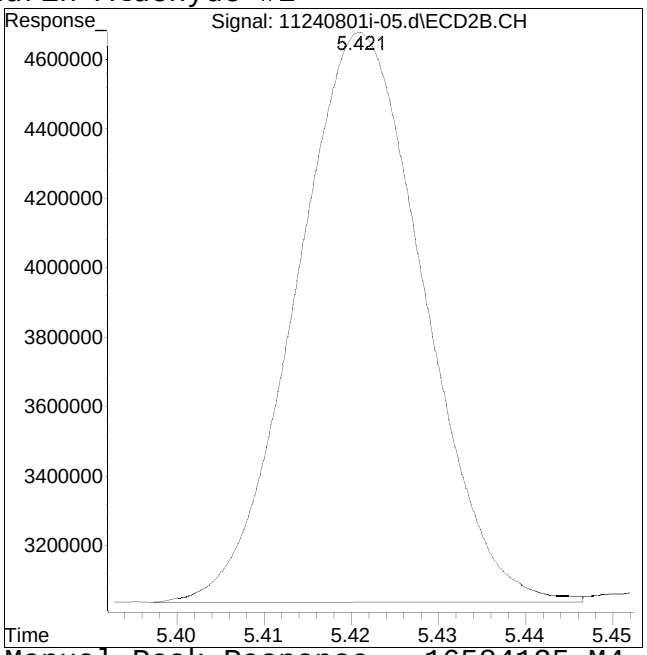
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 16804080



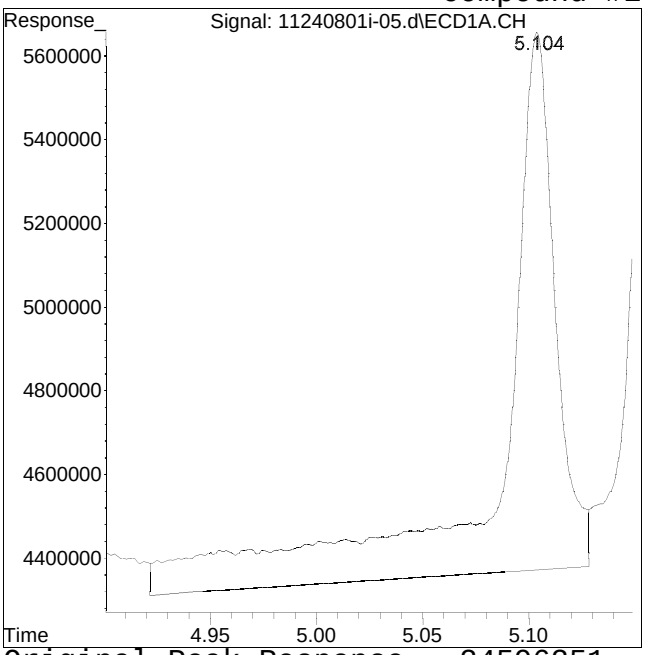
Manual Peak Response = 16584125 M4

M4 = Poor automated baseline construction.

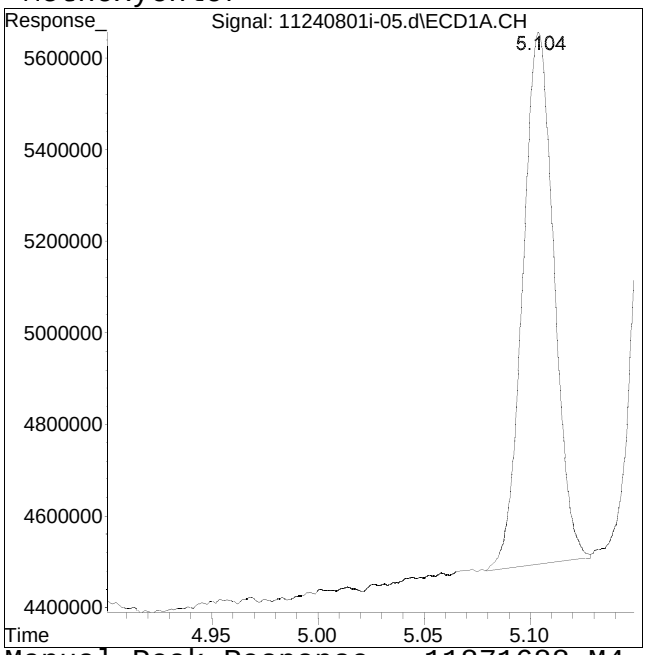
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #23: Methoxychlor



Original Peak Response = 24596251



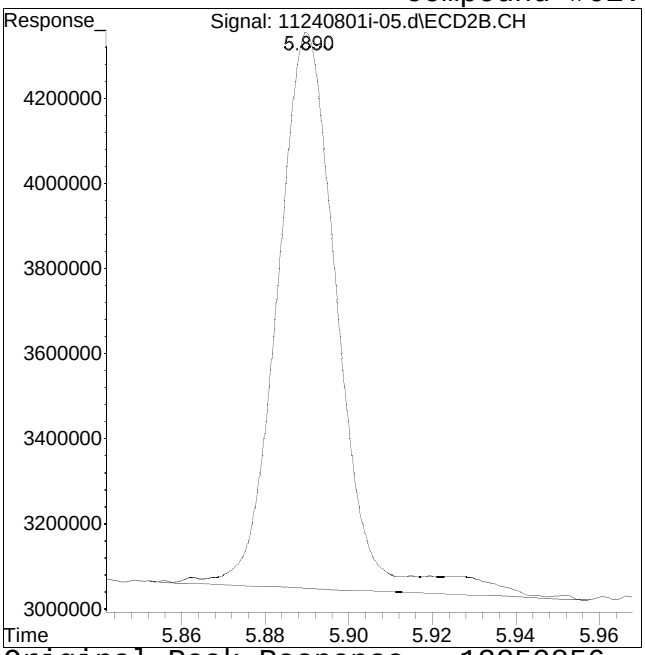
Manual Peak Response = 11871688 M4

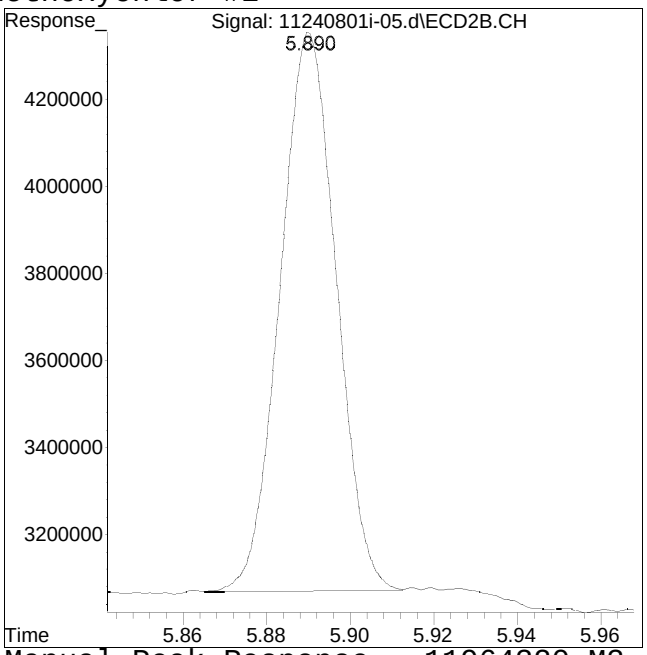
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #61: Methoxychlor #2





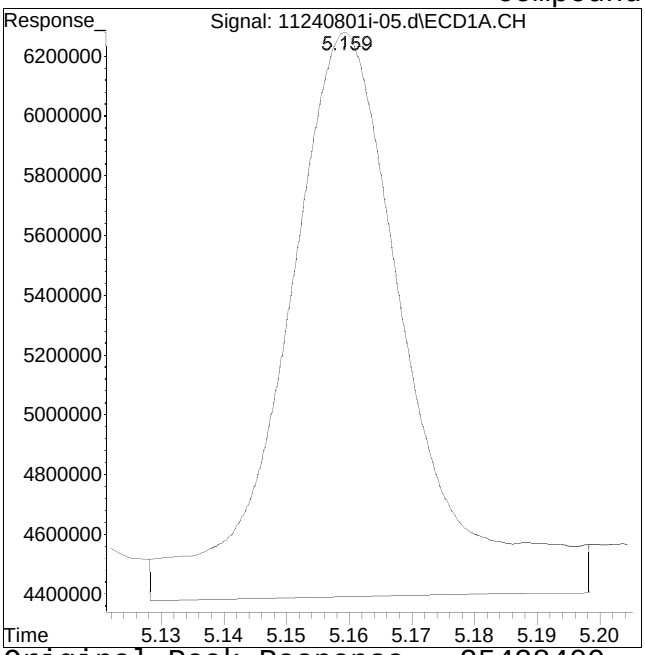
Original Peak Response = 13250856 Manual Peak Response = 11964320 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

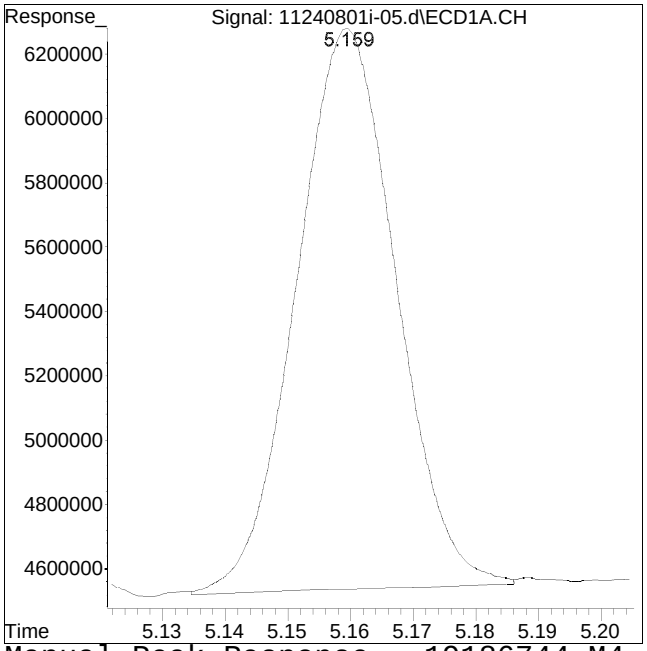
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #24: Mirex



Original Peak Response = 25428400



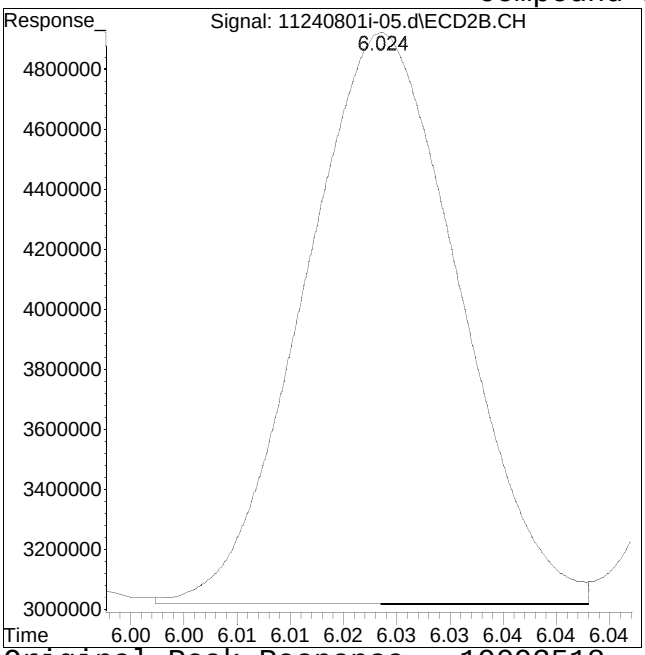
Manual Peak Response = 19186744 M4

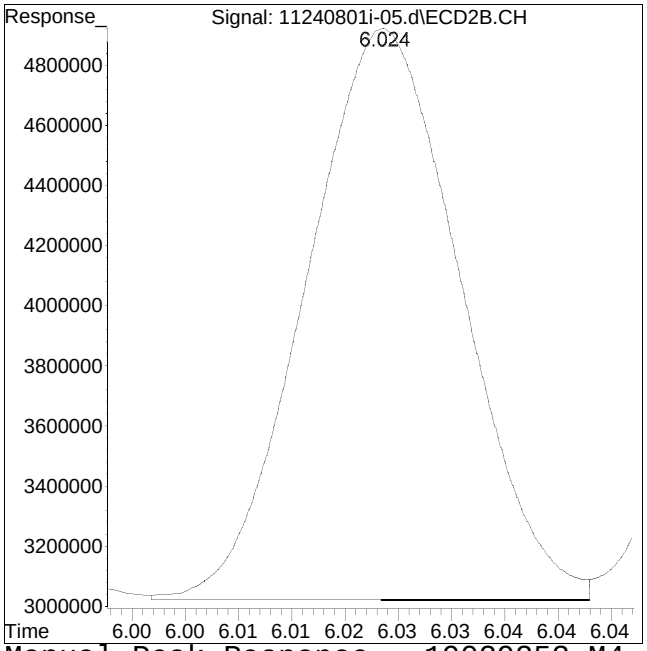
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #62: Mirex #2



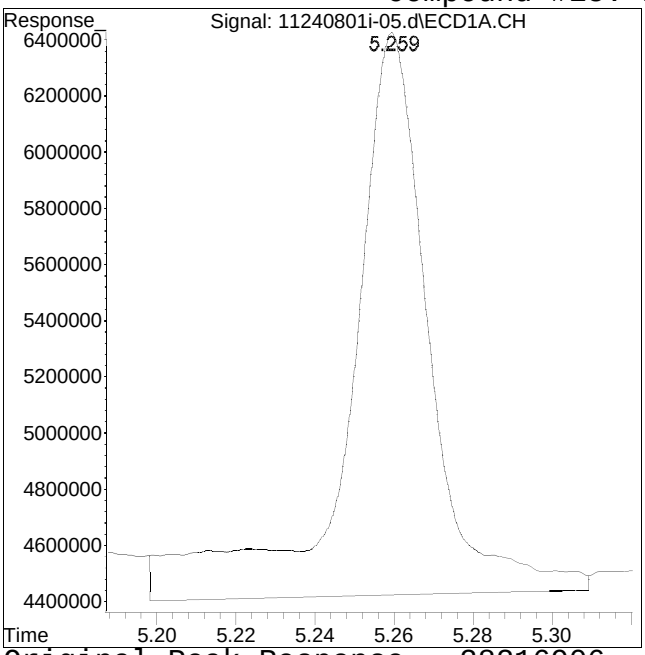


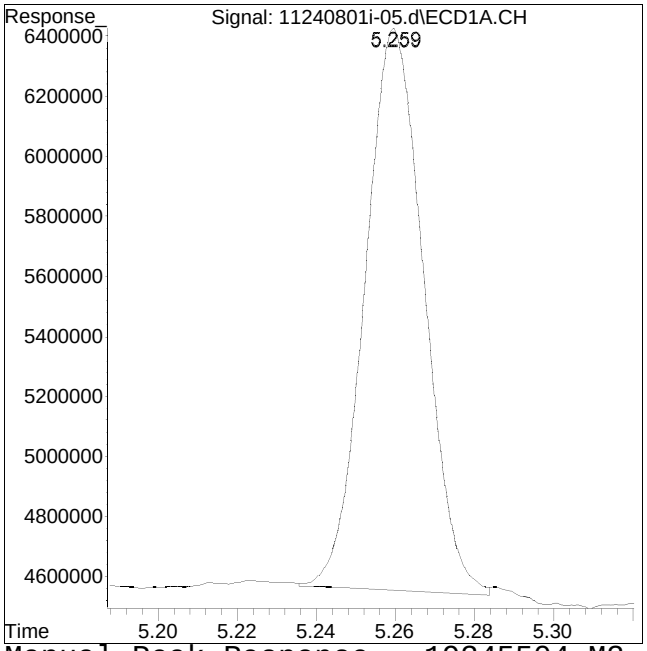
Original Peak Response = 19093518 Manual Peak Response = 19029253 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #25: Endosulfan Sulfate





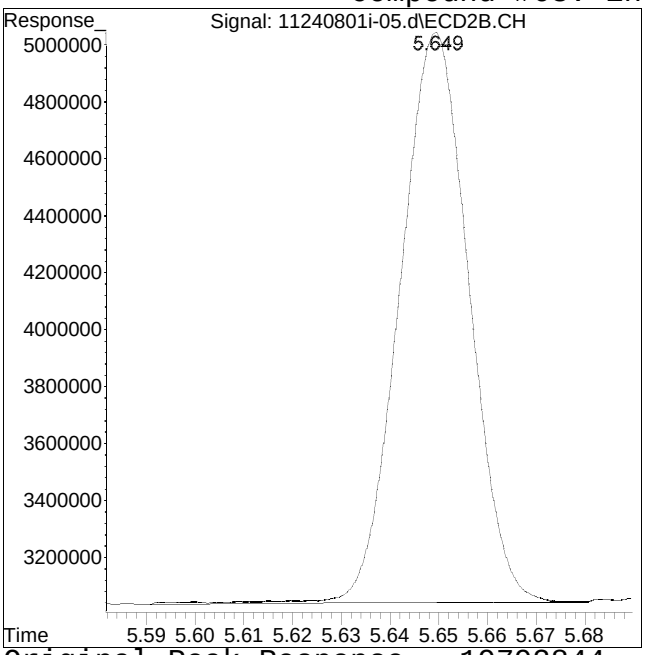
Original Peak Response = 28216906 Manual Peak Response = 19345504 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

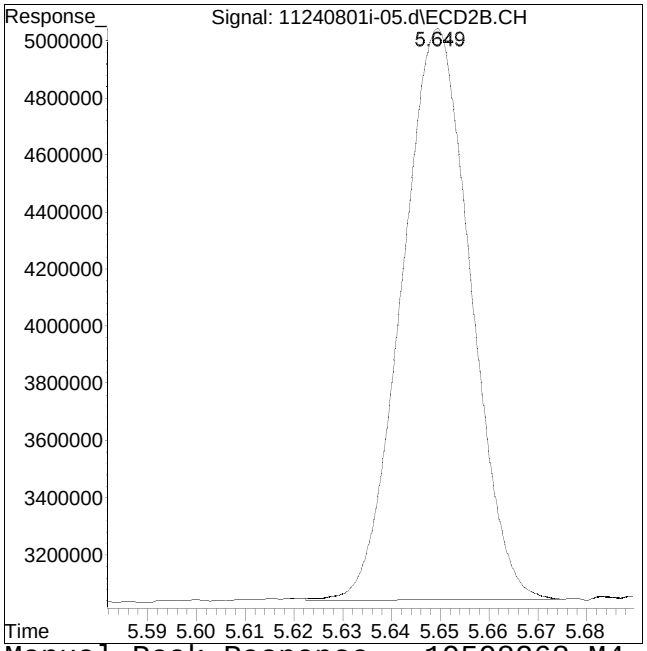
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-05.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:01 Instrument : Pest 11
Sample : il3pest,42e,,pp 11685 L0.0Quant Date : 8/2/2024 11:14 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 19792844



Manual Peak Response = 19598268 M4

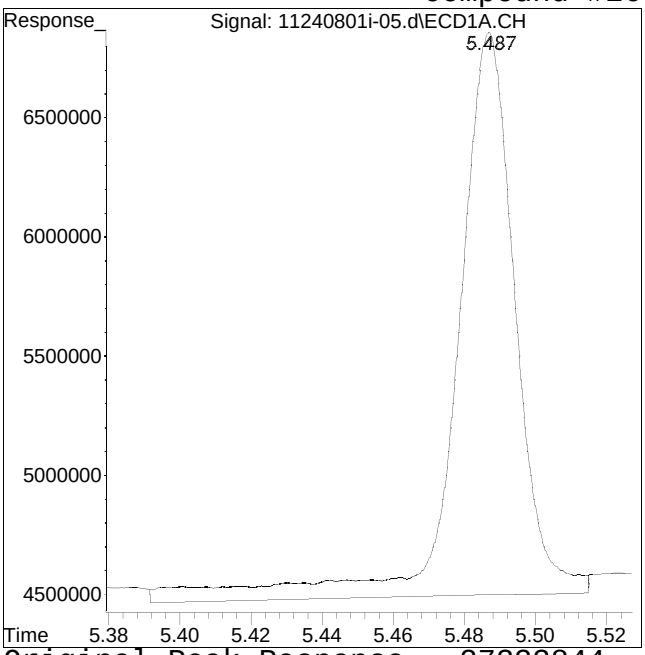
M4 = Poor automated baseline construction.

Manual Integration Report

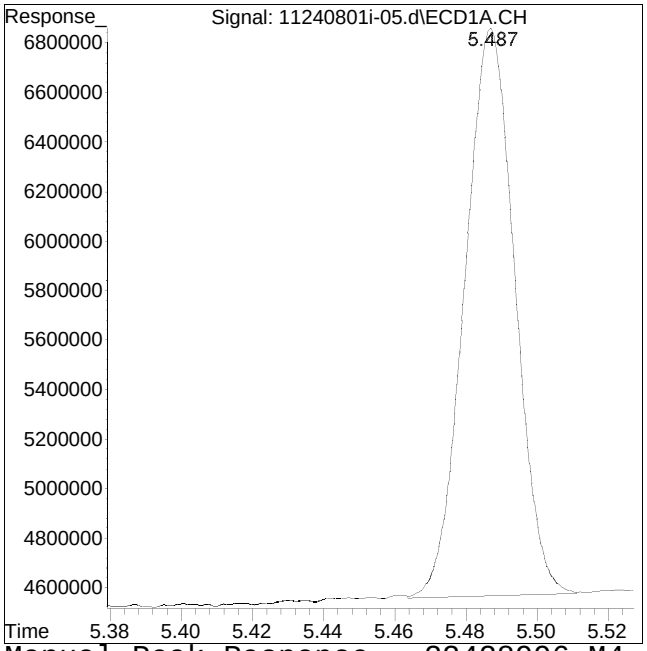
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #26: Endrin Ketone



Original Peak Response = 27333844



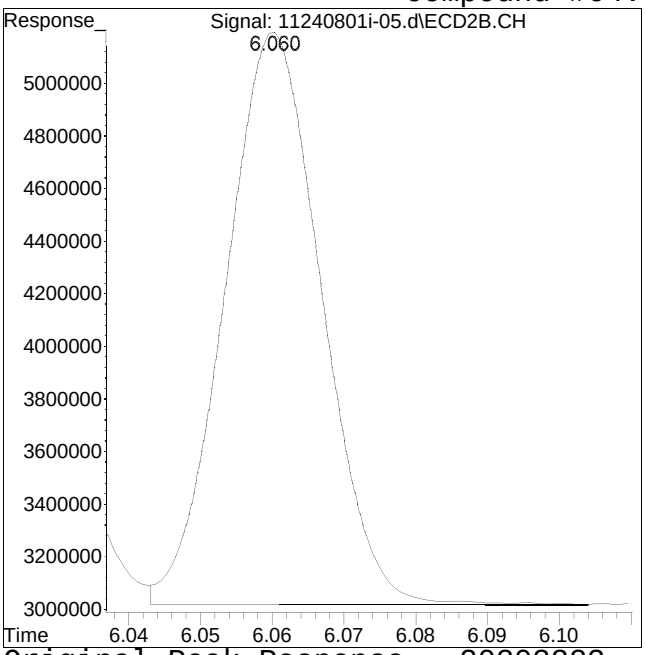
Manual Peak Response = 22428996 M4

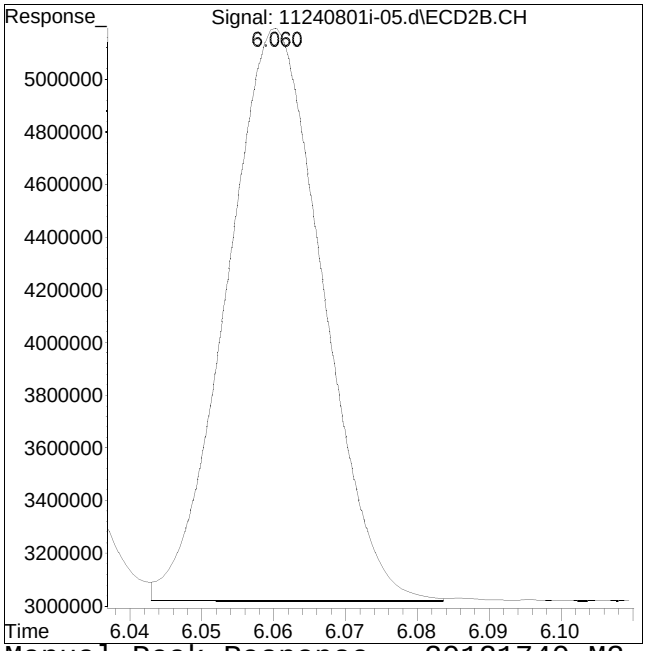
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #64: Endrin Ketone #2





Original Peak Response = 20303223 Manual Peak Response = 20121740 M3

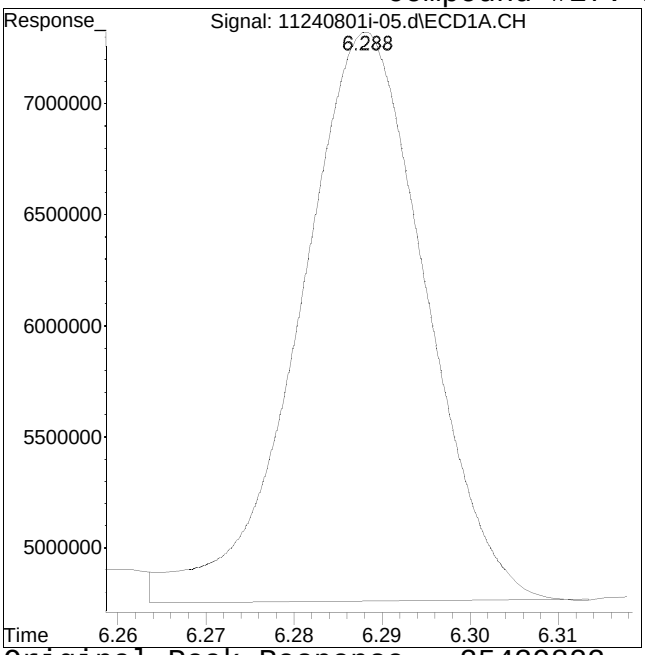
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

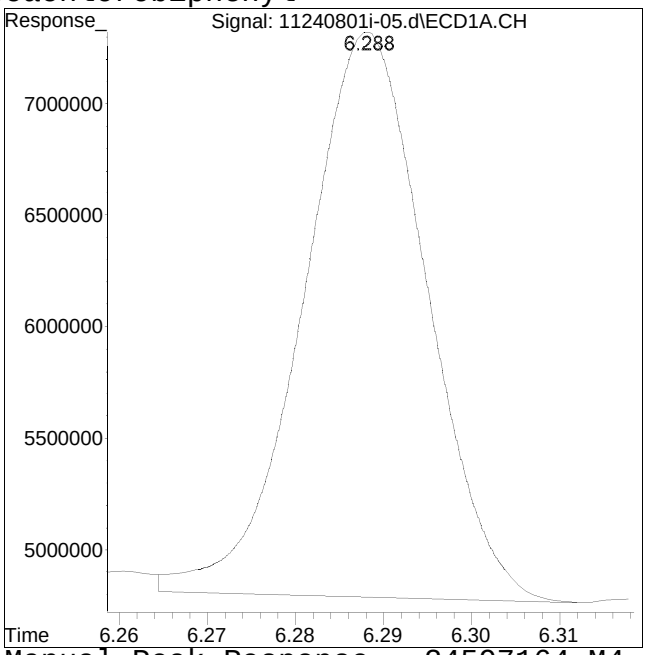
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 25439822



Manual Peak Response = 24597164 M4

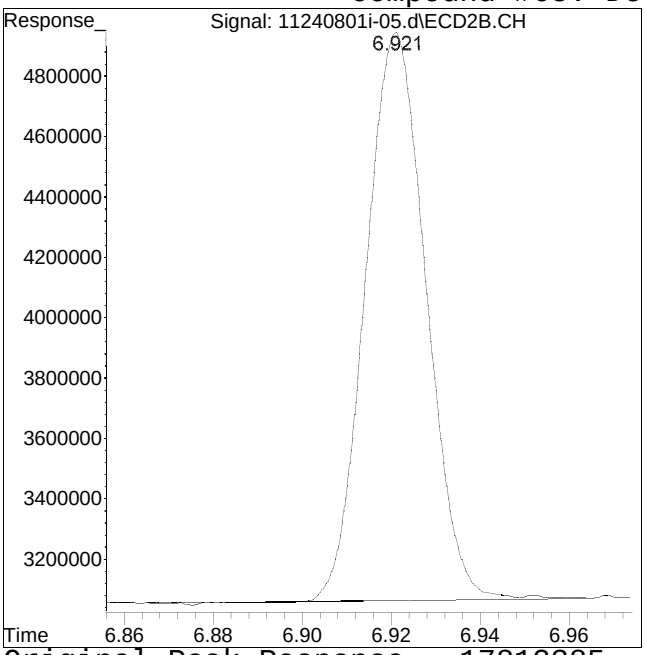
M4 = Poor automated baseline construction.

Manual Integration Report

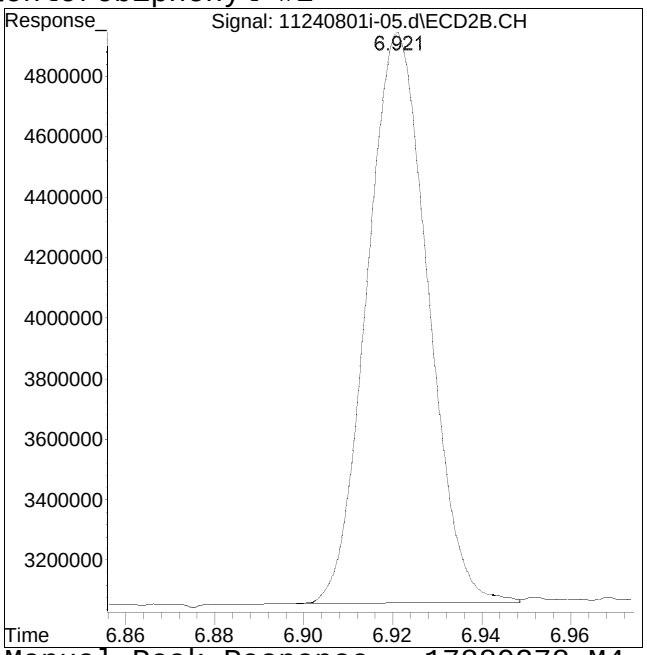
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-05.d
Date Inj'd : 8/1/2024 19:01
Sample : il3pest,42e,,pp 11685 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:14 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 17812385



Manual Peak Response = 17880278 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	225.3E6	182.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	29080990	25002980	3.146M4	3.174M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.29%#	6.35%#
27) s	Decachlorobi	6.288	6.920	35723670	25963491	3.673M3	3.623
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.35%#	7.25%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.177	41044675	28990626	3.378M4	3.407M4
4) t	alpha-BHC	1.963	2.270	37177271	33446228	2.704M4	2.766M4
5) t	gamma-BHC (l	2.165	2.556	36664929	32438962	2.866	2.938M4
6) t	beta-BHC	2.221	2.622	18018371	17068674	3.280M4	3.539M4
7) t	delta-BHC	2.349	2.889	35236787	32007816	2.741M4	2.855M4
8) t	Heptachlor	2.513	2.951	36683442	36318635	3.092M4	3.237M4
9) t	Aldrin	2.755	3.270	33013771	31469739	2.925M3	3.041M4
10) t	Alachlor	2.876	3.153	6704352	6156990	3.330M4	3.985M4
11) t	Chlorpyrifos	2.968	3.506	18438577	22860352	3.688M4	3.962M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	33482006	33318329	3.165M3	3.371
13)	t	gamma-Chlord	3.424	4.104	29652579	30160649	3.062M3	3.308M4
14)	t	alpha-Chlord	3.558	4.274	33742908	33326776	3.077M4	3.307M4
15)	t	4,4'-DDE	3.656	4.472	32070400	29145586	2.927M4	2.985M4
16)	t	Endosulfan I	3.695	4.335	31252215	31096714	3.125	3.370M4
17)	t	Dieldrin	3.954	4.627	30771717	29641213	2.966M4	3.125M4
18)	t	Endrin	4.209	4.925	31764584	30138830	3.033M4	3.136M4
19)	t	4,4'-DDD	4.321	5.049	24810460	23764919	2.902M4	3.027M3
20)	t	Endosulfan I	4.451	5.125	29573503	28438999	3.135M4	3.375M4
21)	t	4,4'-DDT	4.614	5.325	28950153	27857323	2.987M4	3.095M4
22)	t	Endrin Aldeh	4.867	5.420	24805991	23963315	3.136M3	3.415M4
23)	t	Methoxychlor	5.104	5.890	18239522	17467129	3.612M4	3.699M4
24)	t	Mirex	5.159	6.023	28822274	27405414	3.547M3	3.862M4
25)	t	Endosulfan S	5.259	5.649	28795336	28540412	3.247M3	3.461
26)	t	Endrin Keton	5.486	6.060	33725466	29365808	3.191M4	3.323M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

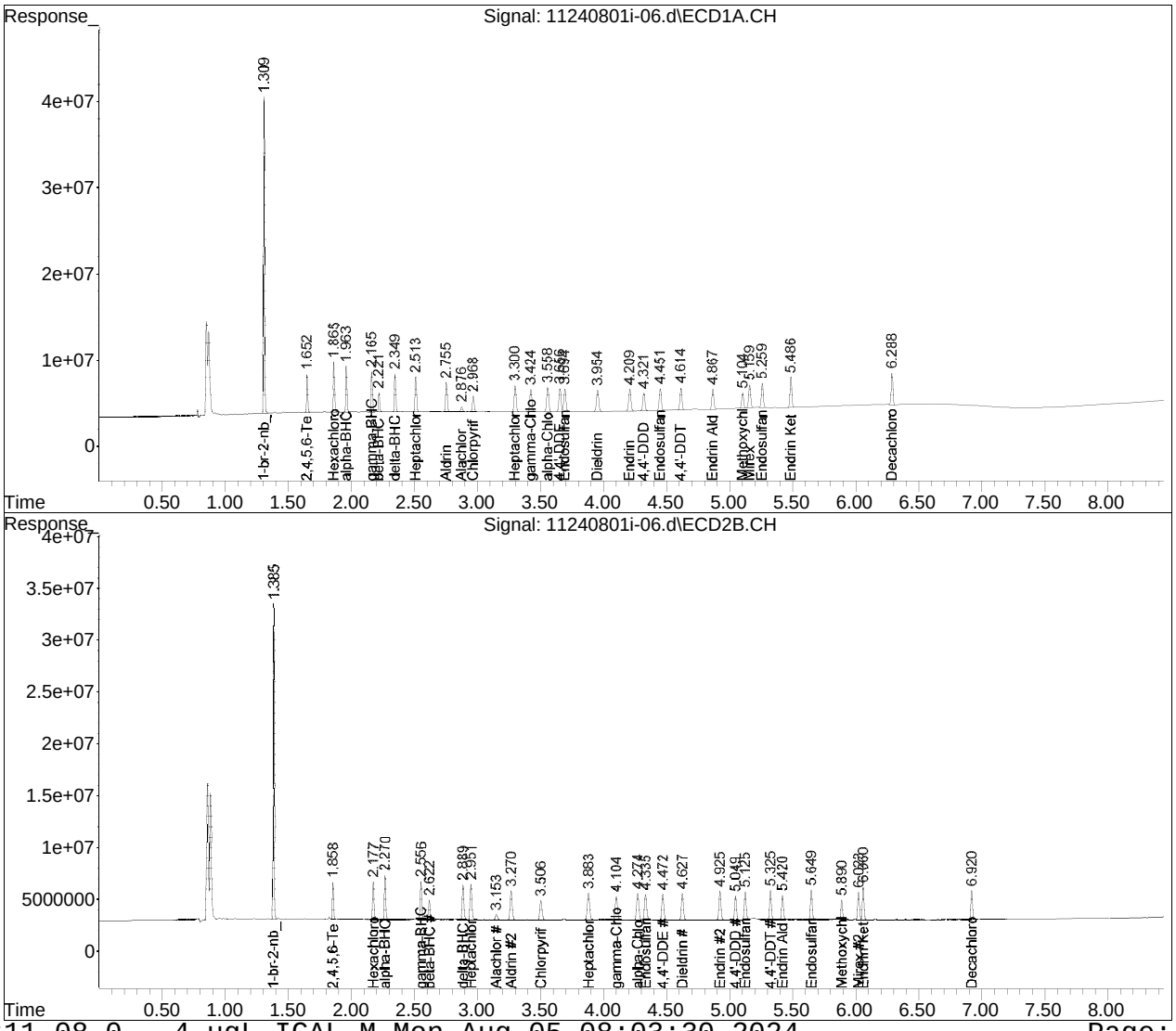
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:13
Operator : PEST11:ejl
Sample : il4pest,42e,,pp 11684 L0.003
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:00:58 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:00:35 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

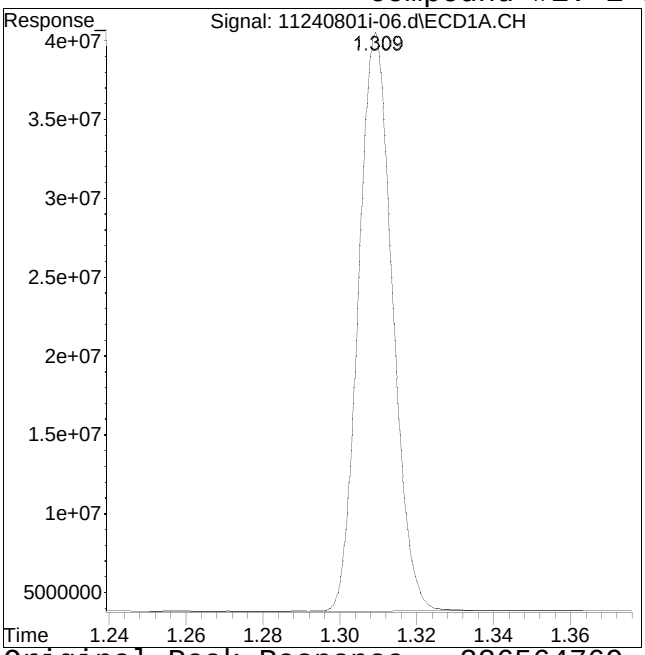


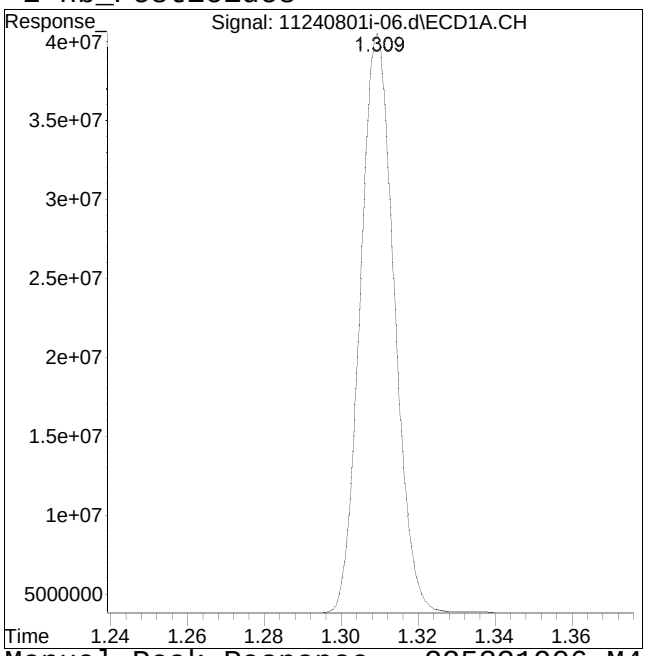
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #1: 1-br-2-nb_Pesticides



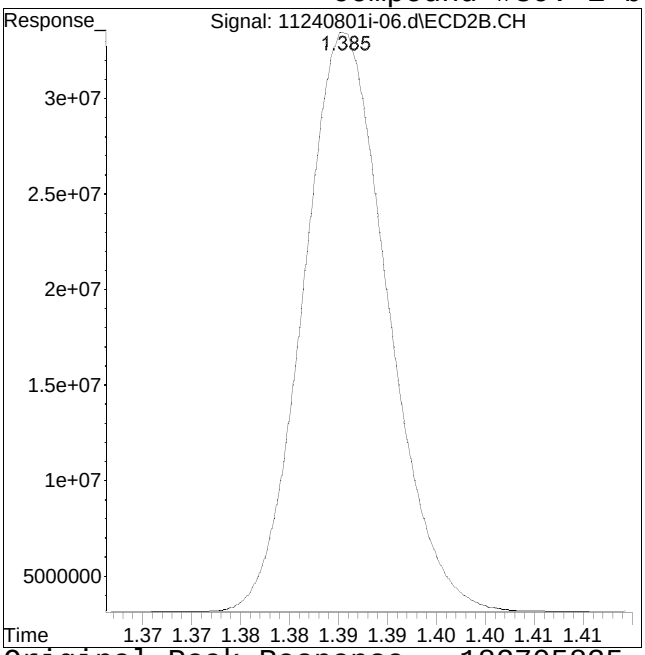


Original Peak Response = 226564769 Manual Peak Response = 225331906 M4
M4 = Poor automated baseline construction.

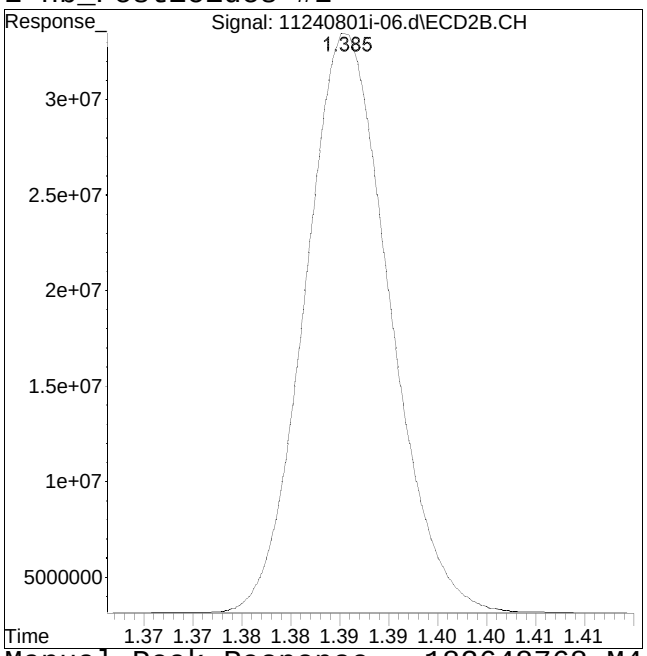
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 182705835



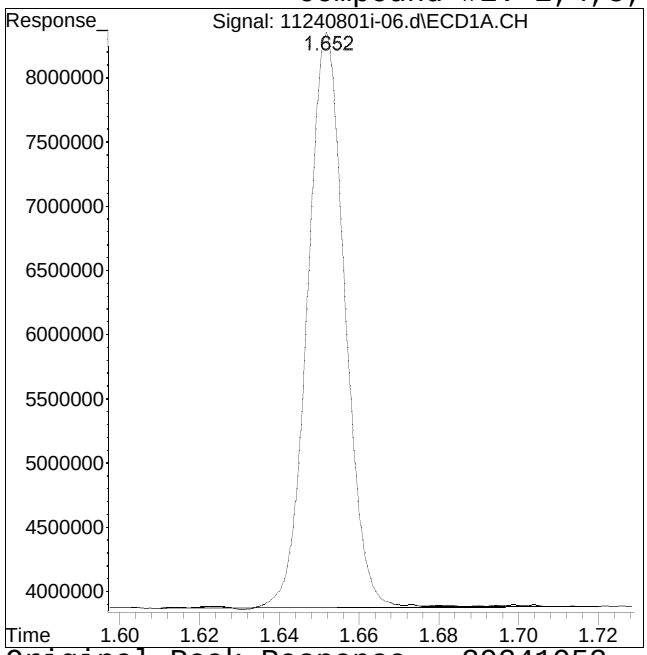
Manual Peak Response = 182648768 M4

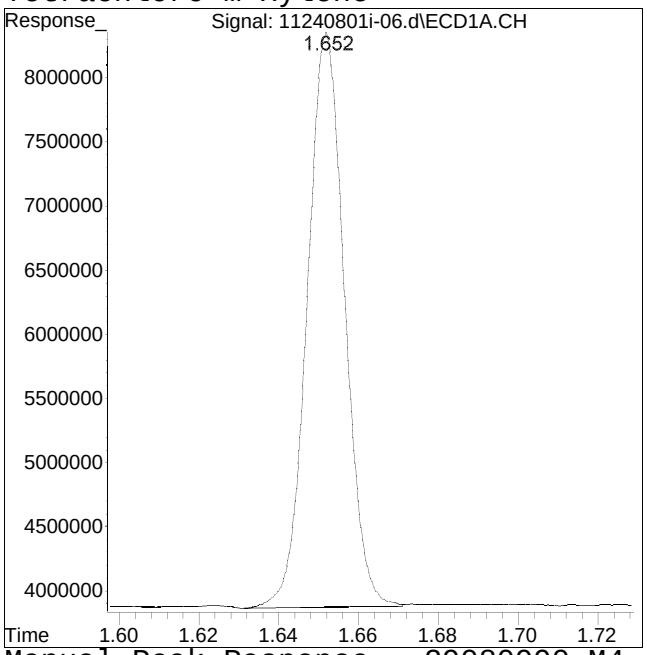
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



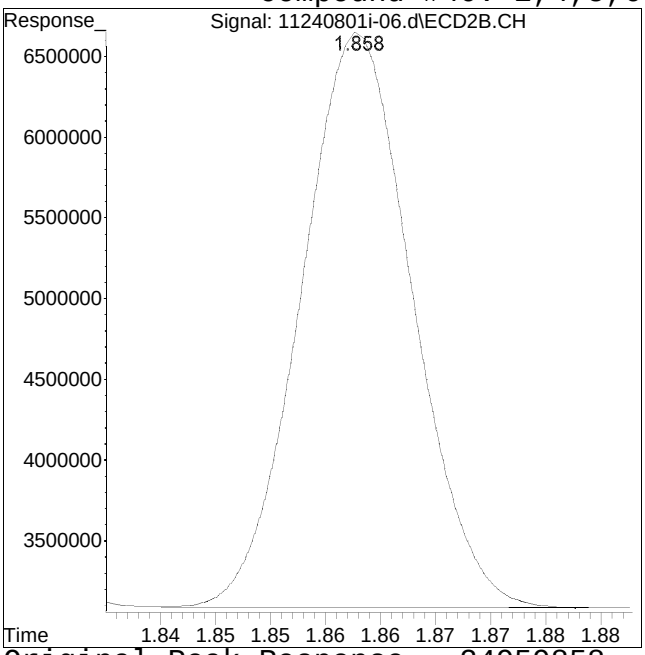


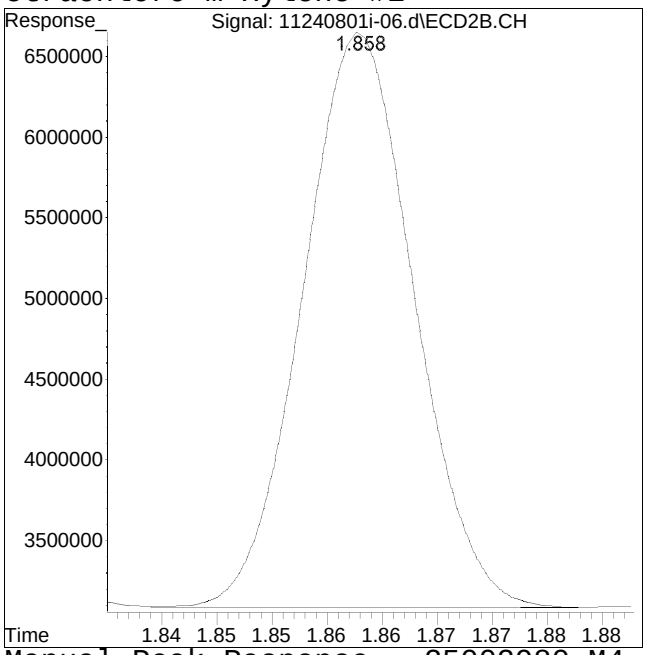
Original Peak Response = 29241952 Manual Peak Response = 29080990 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



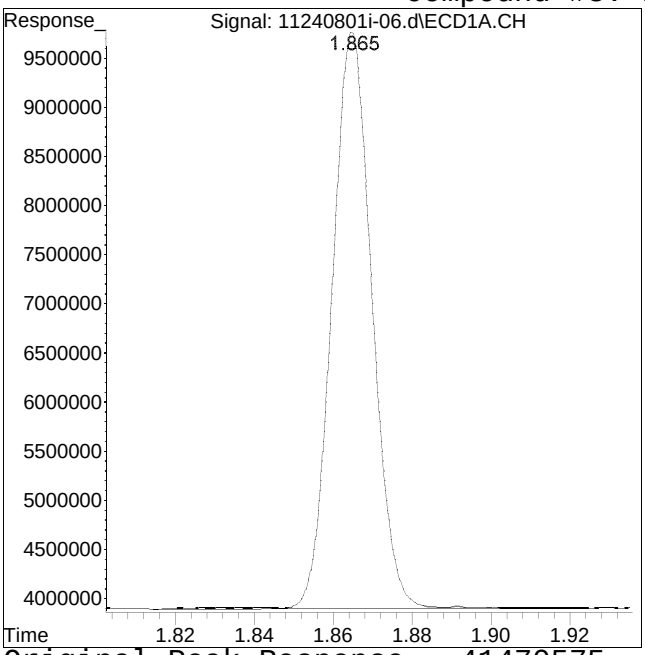


Original Peak Response = 24959858 Manual Peak Response = 25002980 M4
M4 = Poor automated baseline construction.

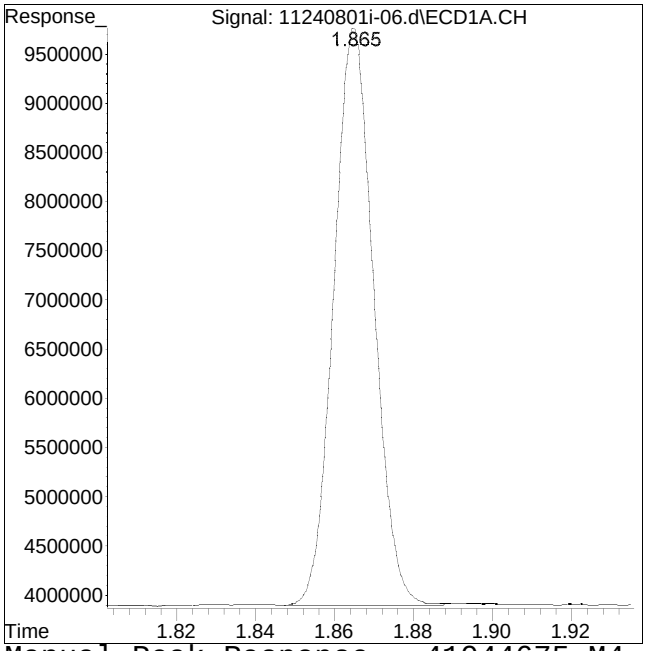
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #3: Hexachlorobenzene



Original Peak Response = 41470575



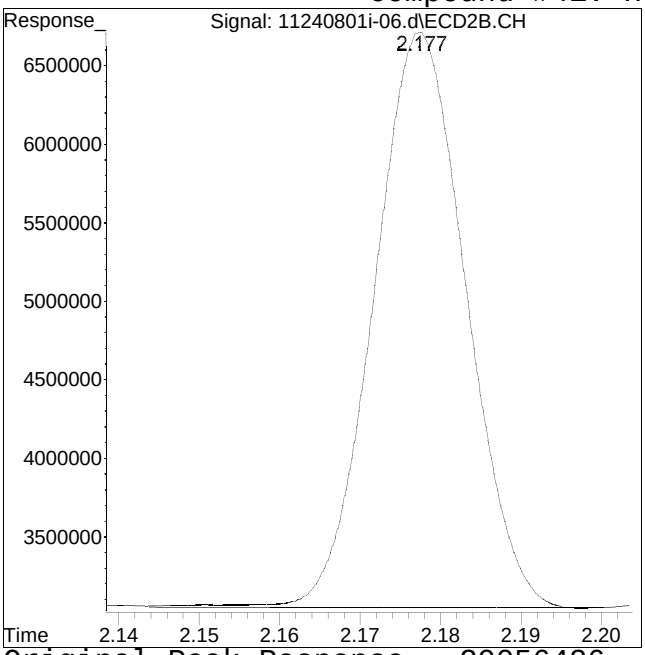
Manual Peak Response = 41044675 M4

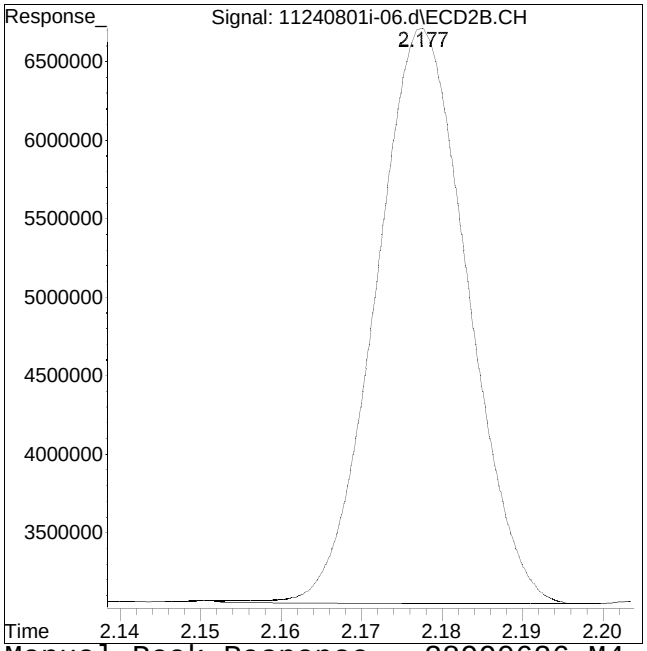
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0 Quant Date : 8/2/2024 11:00 am

Compound #41: Hexachlorobenzene #2



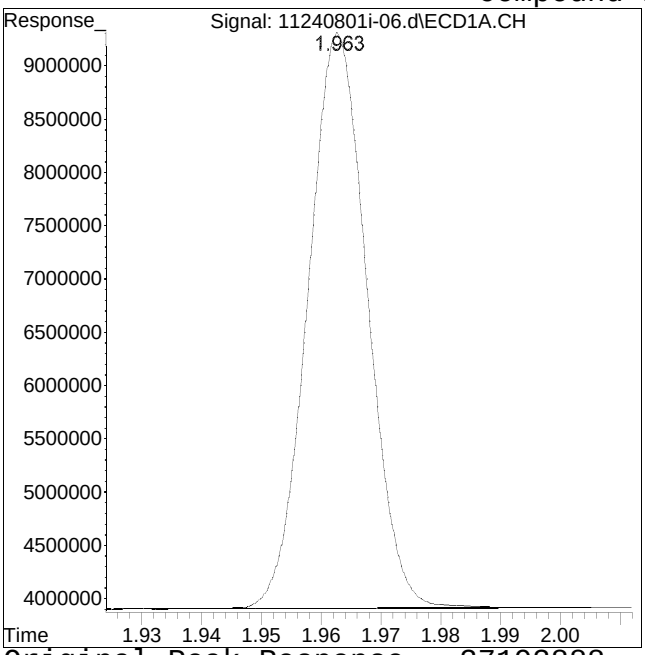


Original Peak Response = 29056426 Manual Peak Response = 28990626 M4
M4 = Poor automated baseline construction.

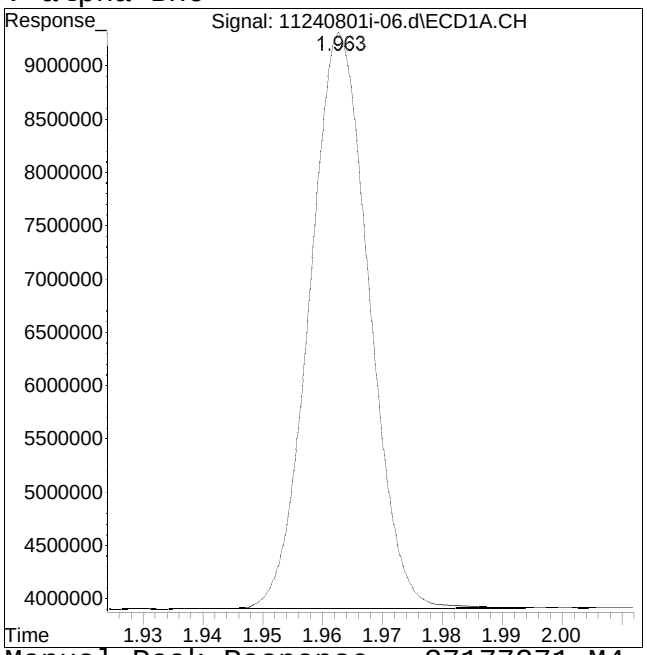
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #4: alpha-BHC



Original Peak Response = 37193888



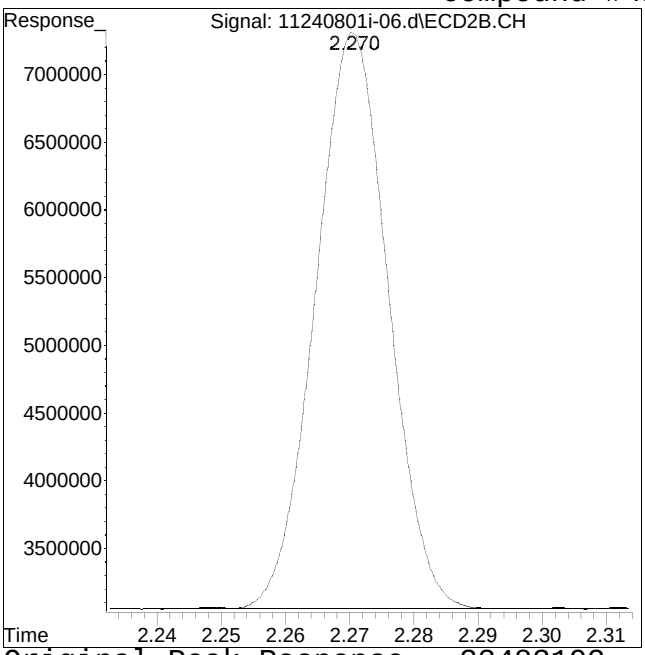
Manual Peak Response = 37177271 M4

M4 = Poor automated baseline construction.

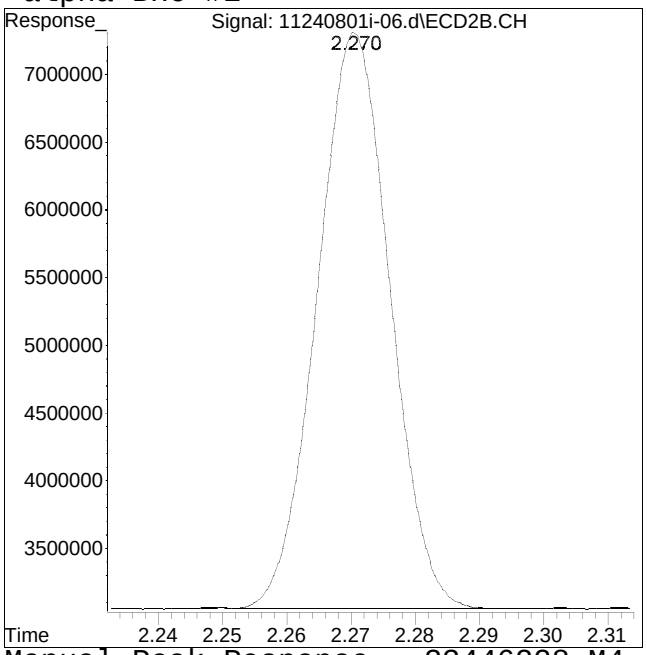
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #42: alpha-BHC #2



Original Peak Response = 33483192



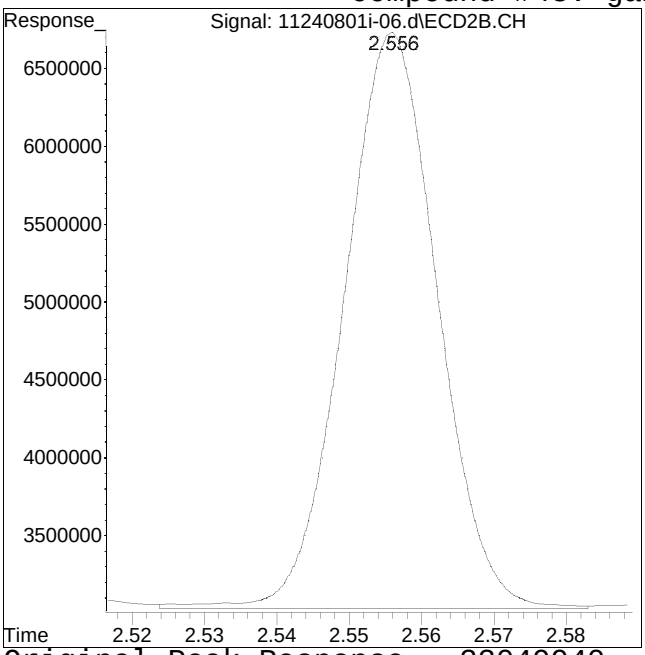
Manual Peak Response = 33446228 M4

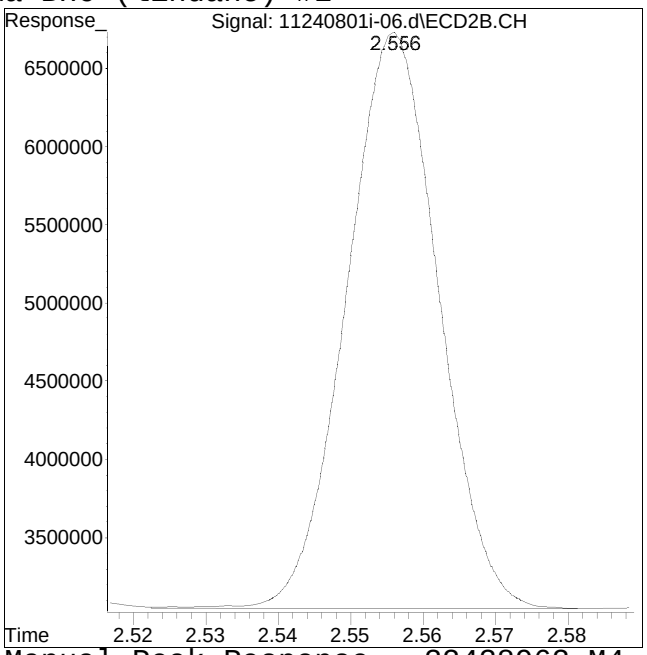
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #43: gamma-BHC (lindane) #2



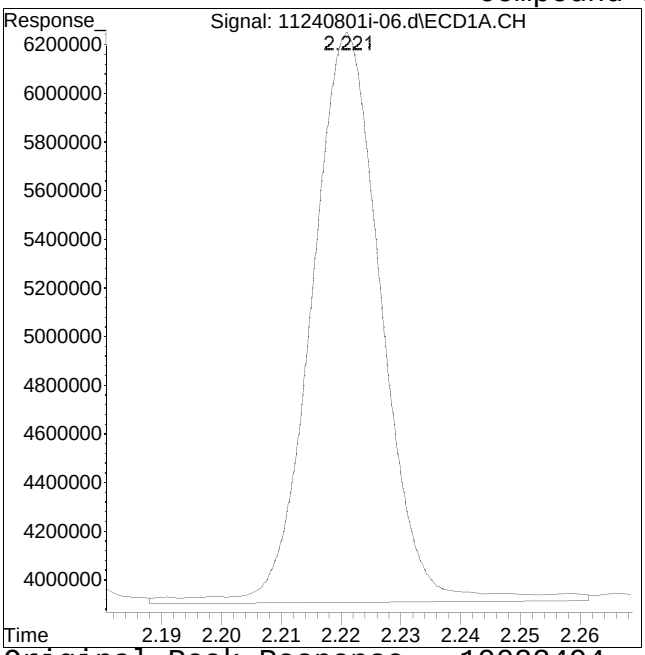


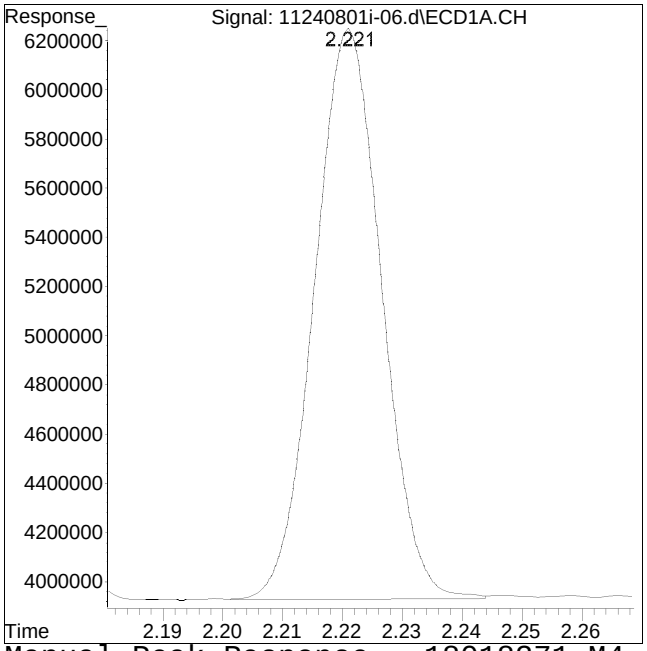
Original Peak Response = 33049940 Manual Peak Response = 32438962 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #6: beta-BHC



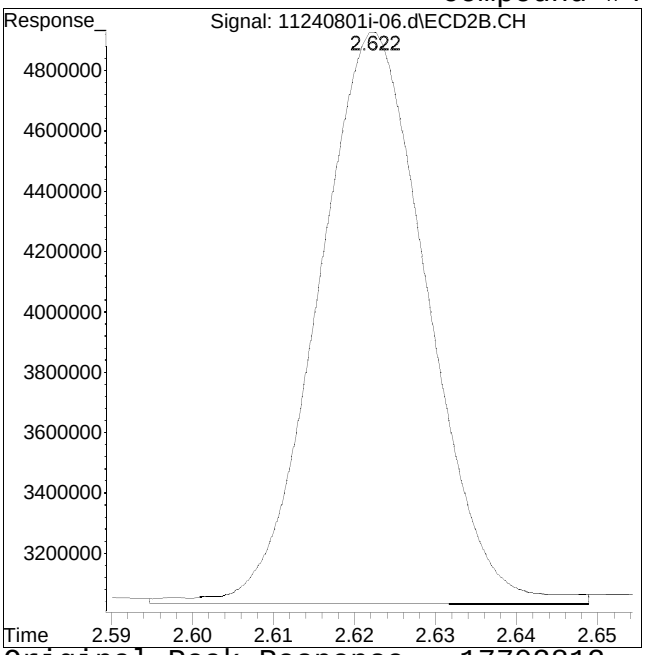


Original Peak Response = 19022494 Manual Peak Response = 18018371 M4
M4 = Poor automated baseline construction.

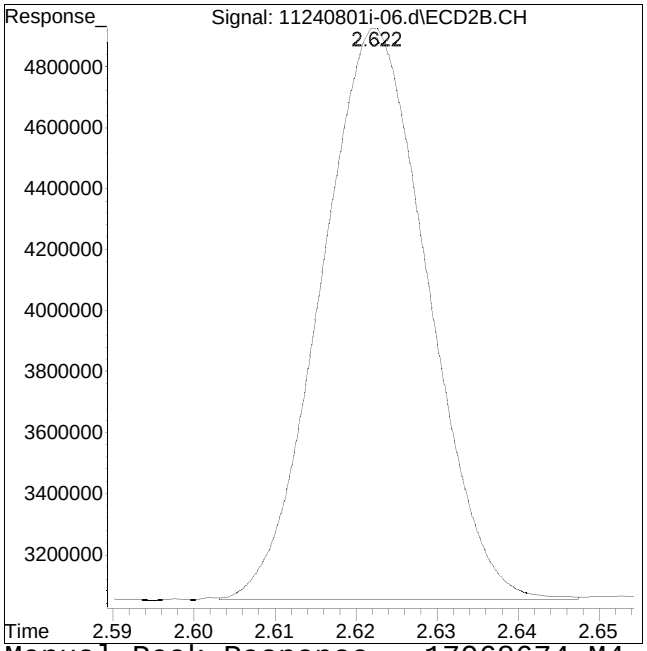
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #44: beta-BHC #2



Original Peak Response = 17702812



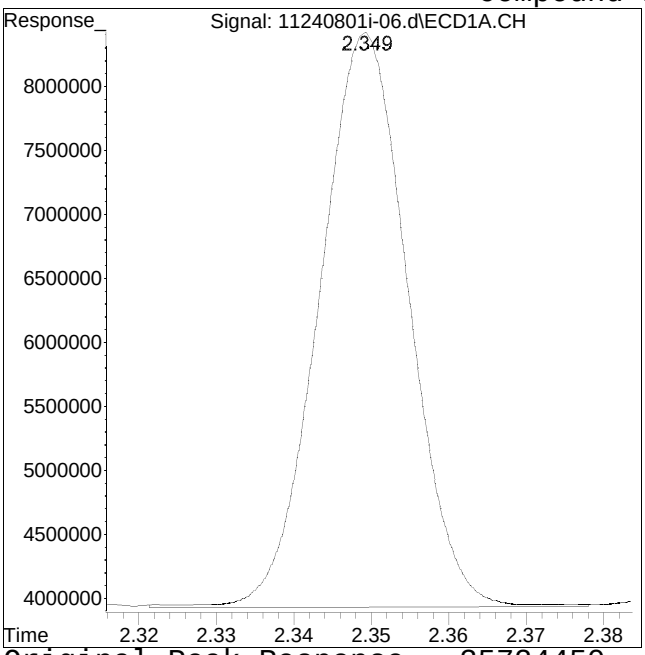
Manual Peak Response = 17068674 M4

M4 = Poor automated baseline construction.

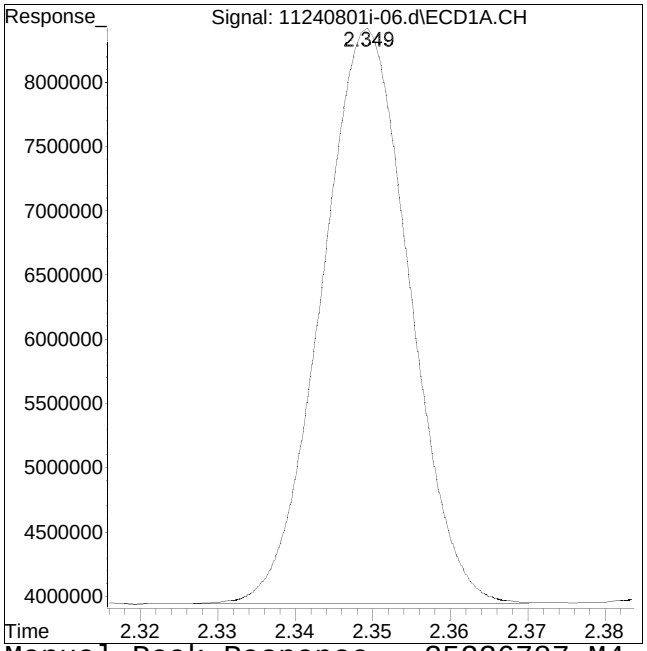
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #7: delta-BHC



Original Peak Response = 35724450



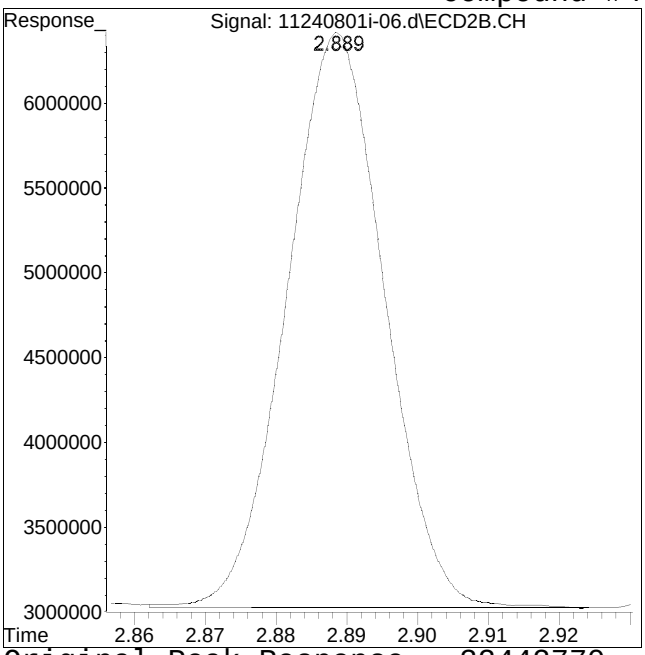
Manual Peak Response = 35236787 M4

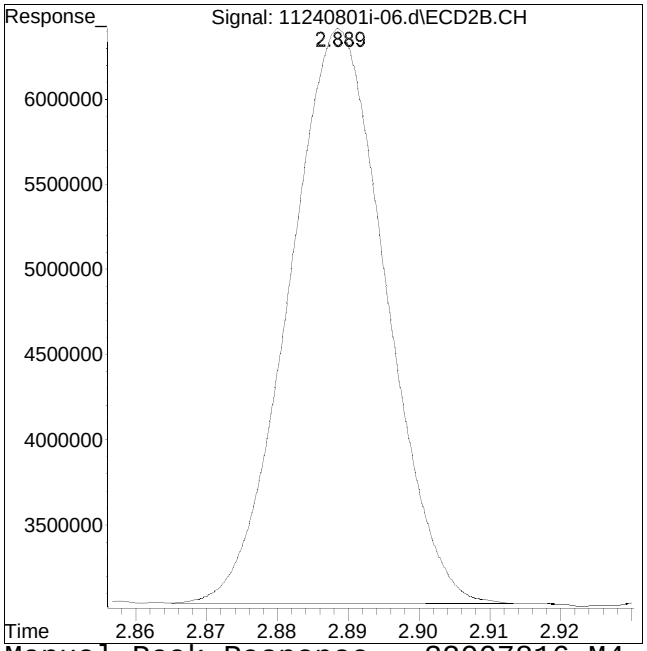
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #45: delta-BHC #2





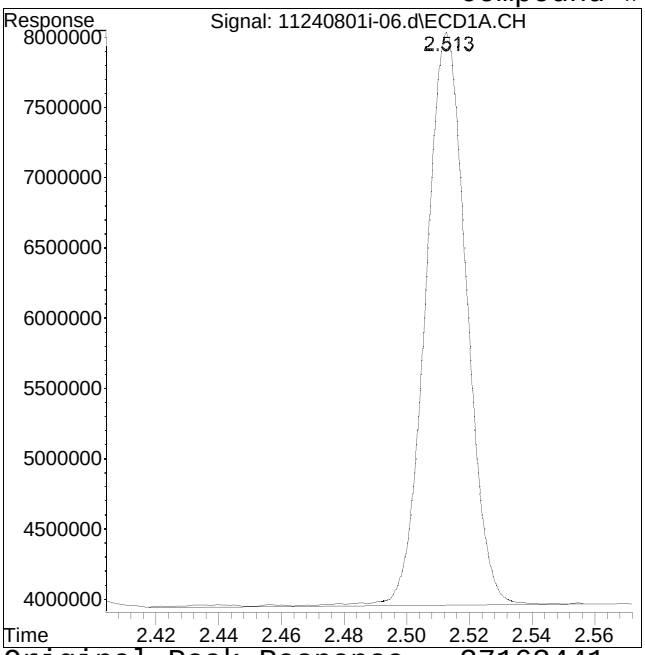
Original Peak Response = 32442770 Manual Peak Response = 32007816 M4
M4 = Poor automated baseline construction.

Manual Integration Report

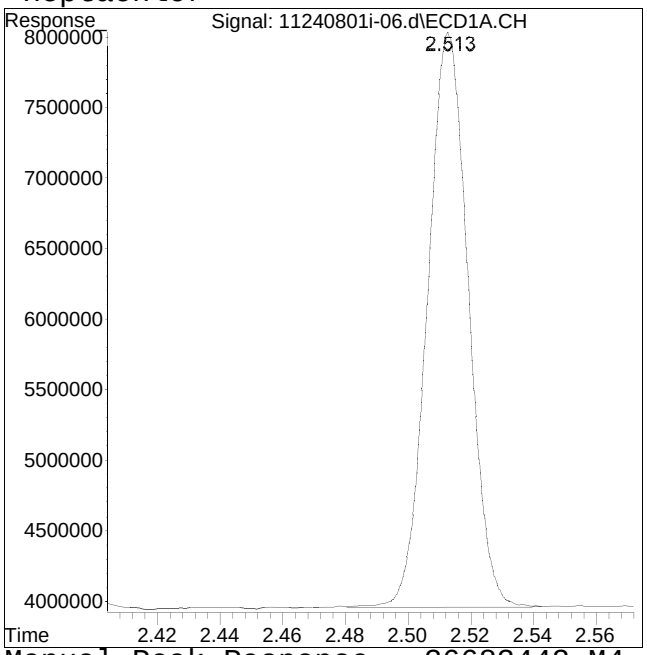
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #8: Heptachlor



Original Peak Response = 37163441



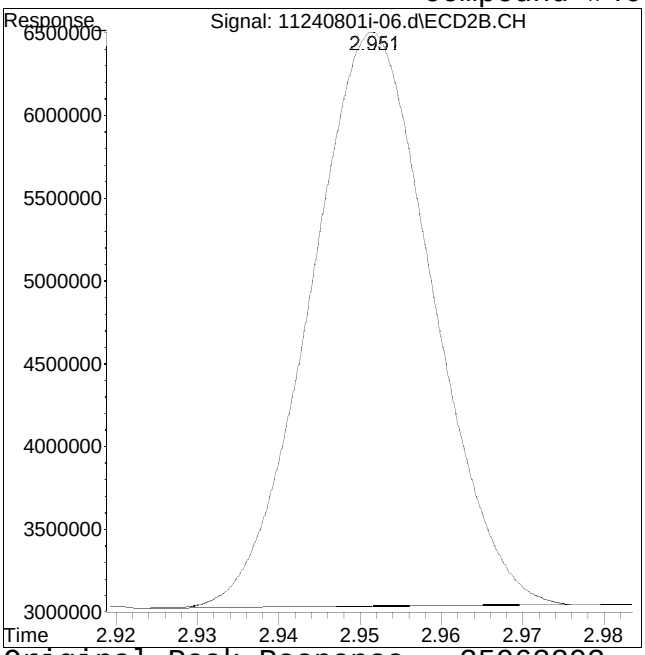
Manual Peak Response = 36683442 M4

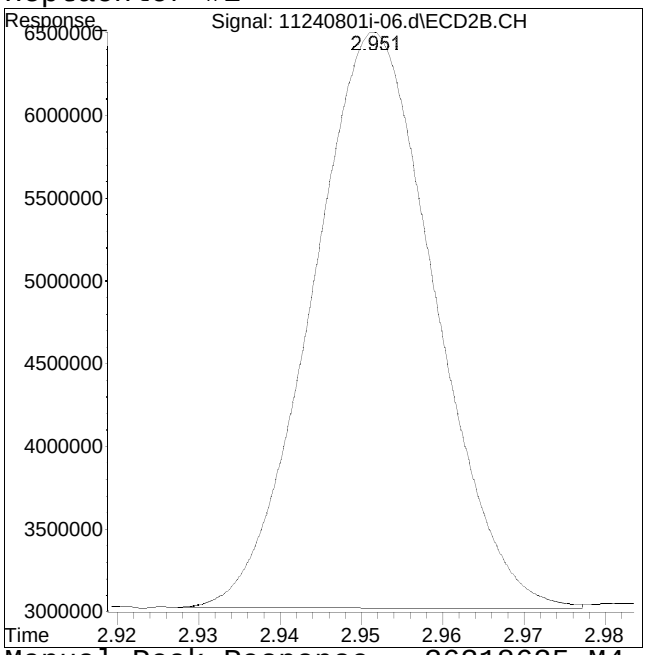
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #46: Heptachlor #2





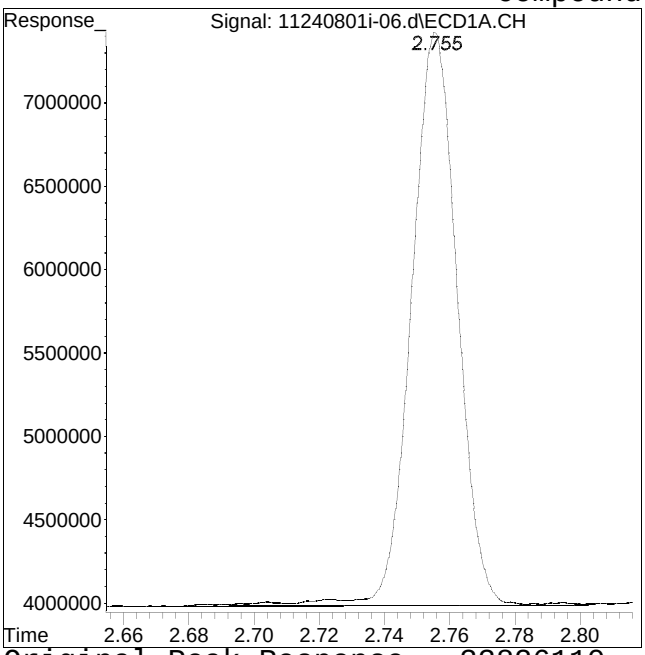
Original Peak Response = 35963293 Manual Peak Response = 36318635 M4
M4 = Poor automated baseline construction.

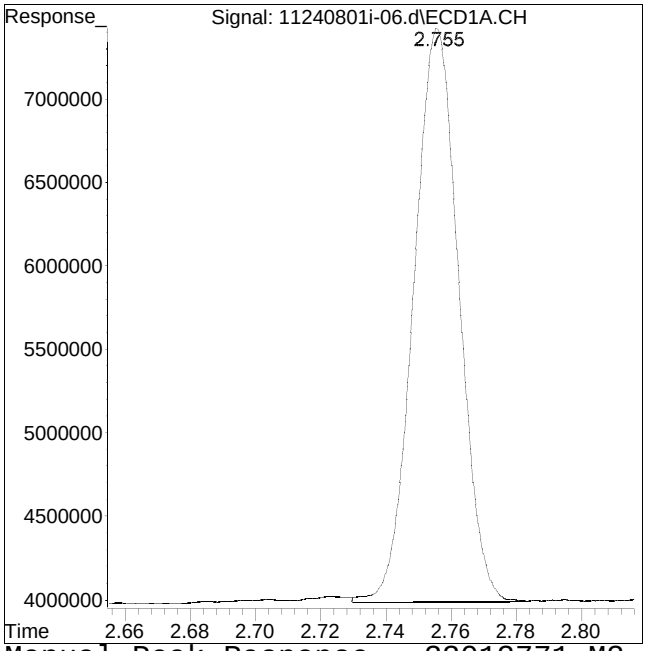
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #9: Aldrin





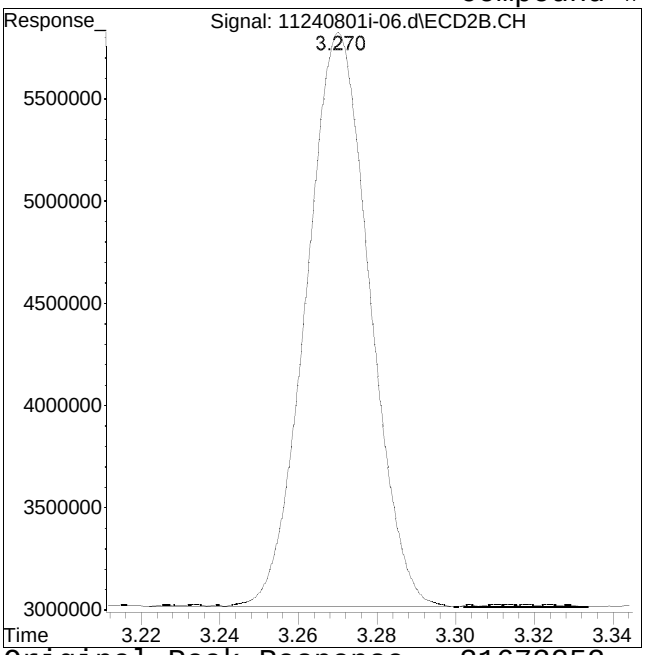
Original Peak Response = 33826110 Manual Peak Response = 33013771 M3

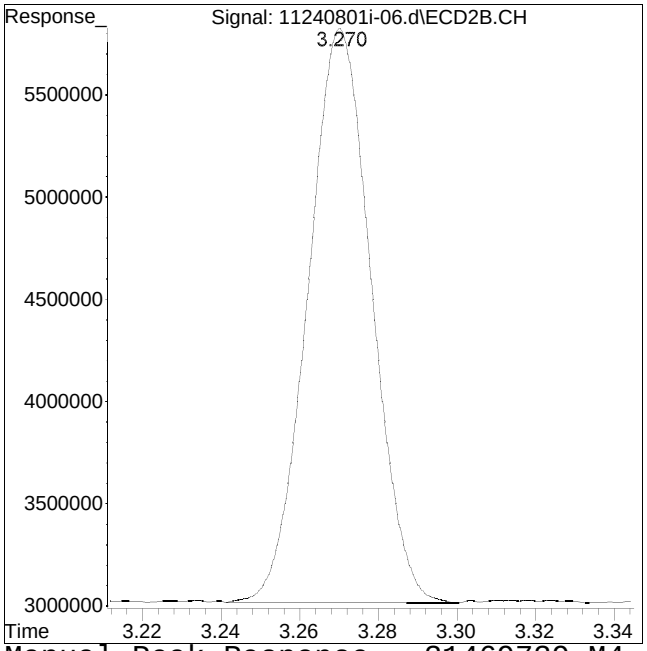
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #47: Aldrin #2





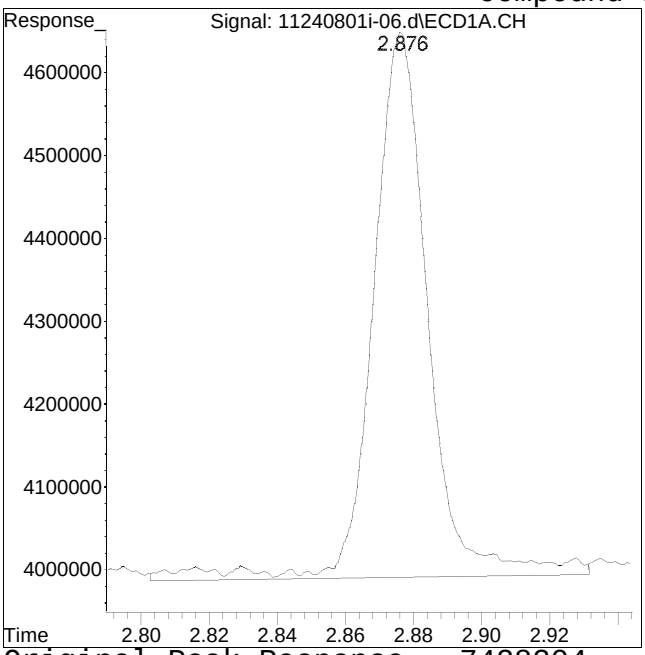
Original Peak Response = 31673252 Manual Peak Response = 31469739 M4
M4 = Poor automated baseline construction.

Manual Integration Report

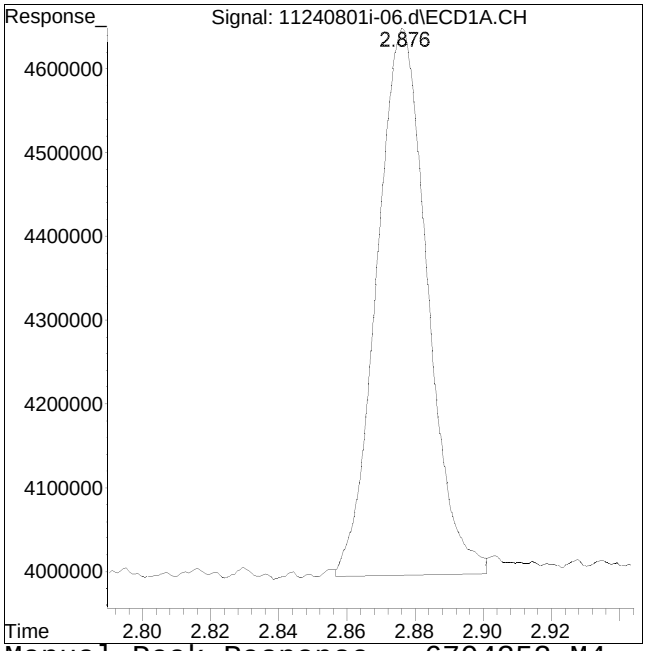
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #10: Alachlor



Original Peak Response = 7428204



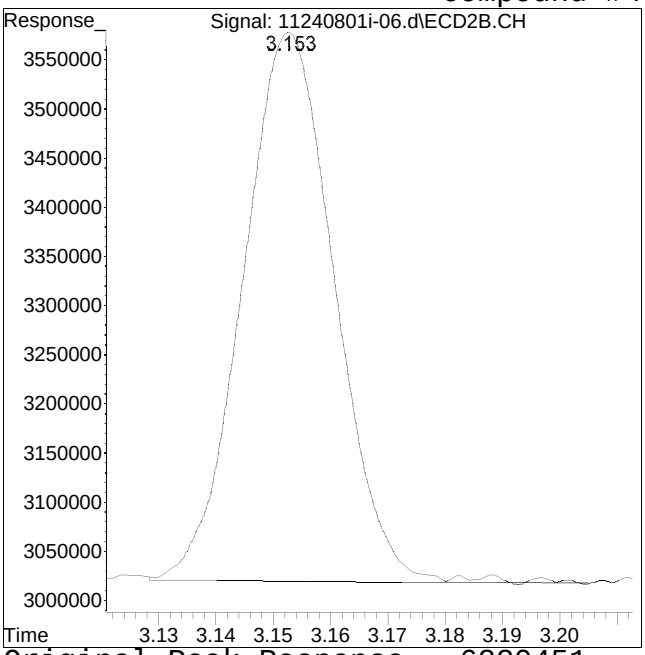
Manual Peak Response = 6704352 M4

M4 = Poor automated baseline construction.

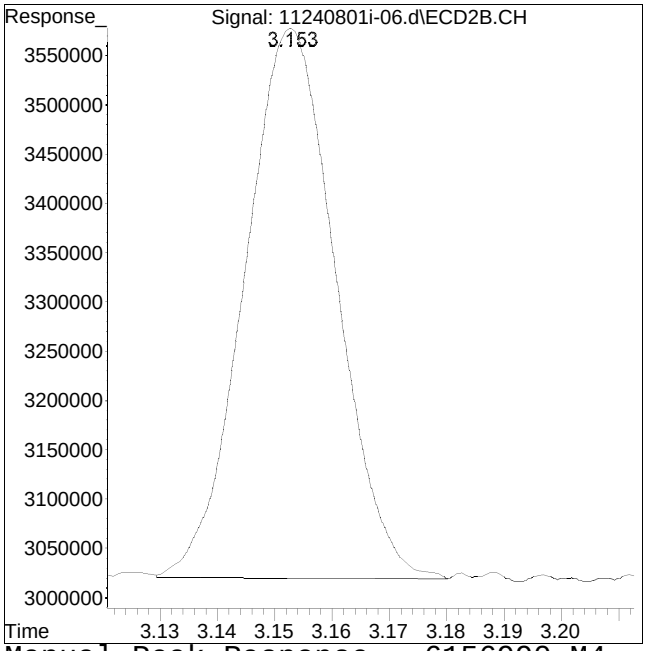
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #48: Alachlor #2



Original Peak Response = 6220451



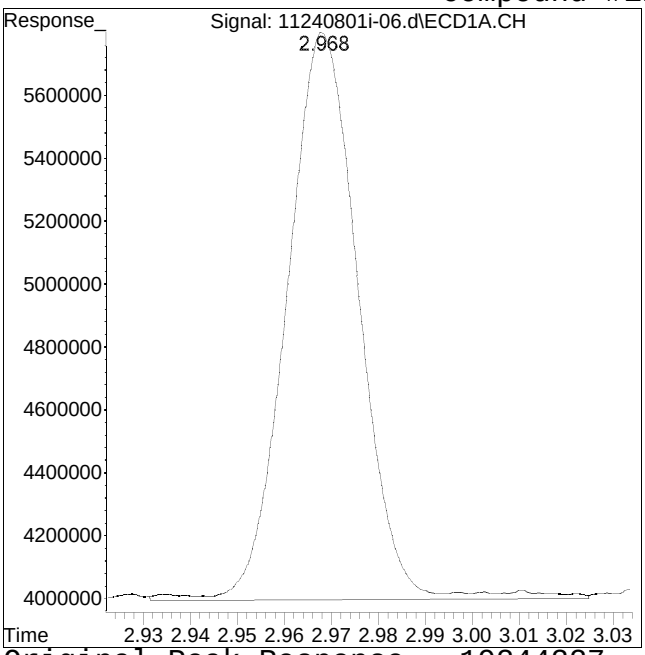
Manual Peak Response = 6156990 M4

M4 = Poor automated baseline construction.

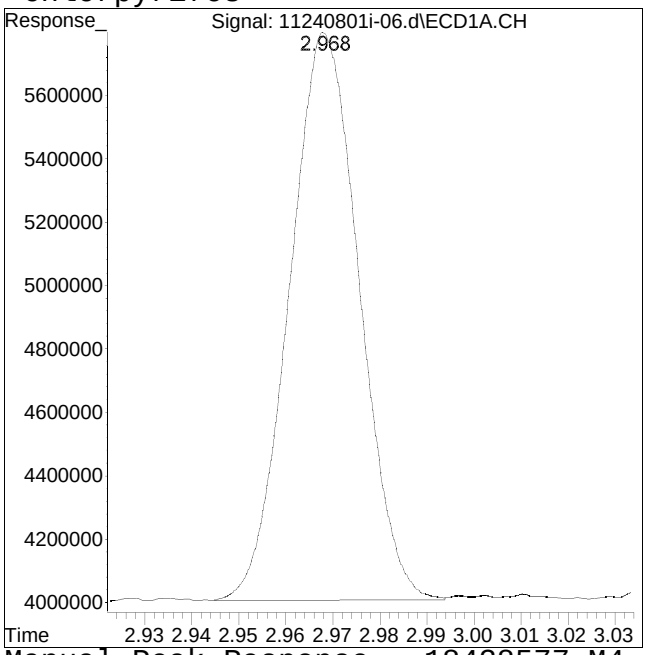
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #11: Chlorpyrifos



Original Peak Response = 19244227



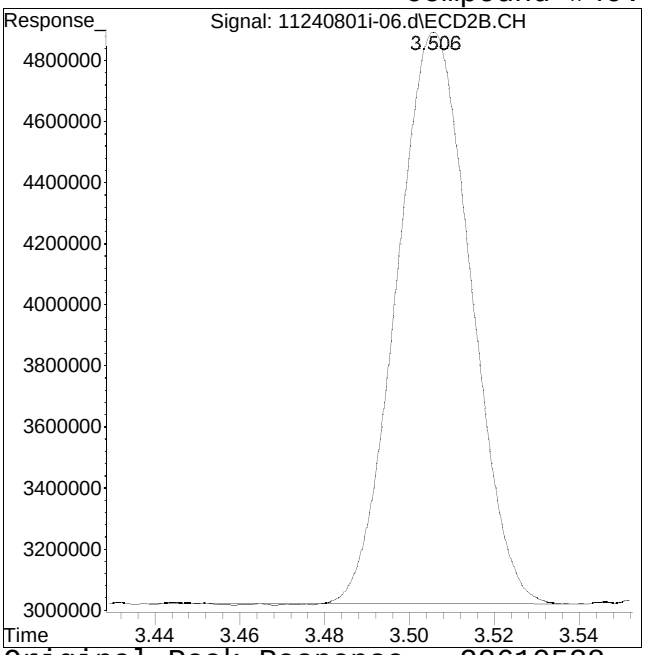
Manual Peak Response = 18438577 M4

M4 = Poor automated baseline construction.

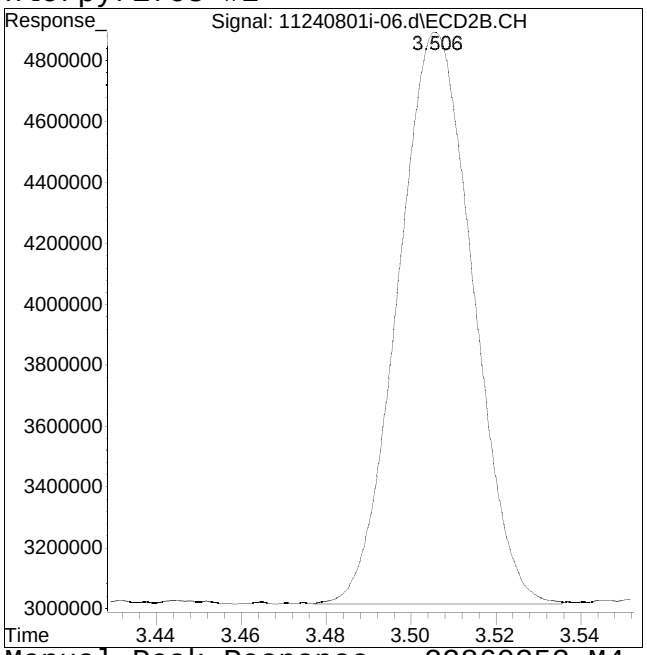
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 22610538



Manual Peak Response = 22860352 M4

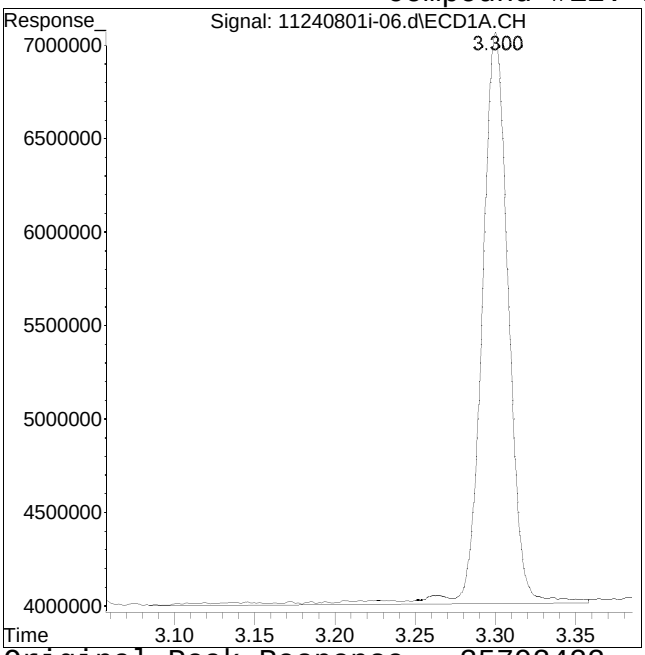
M4 = Poor automated baseline construction.

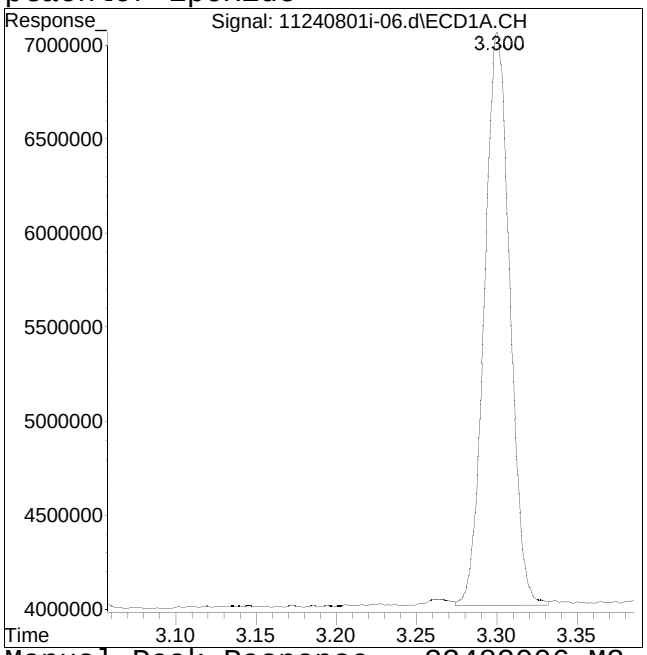
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #12: Heptachlor Epoxide





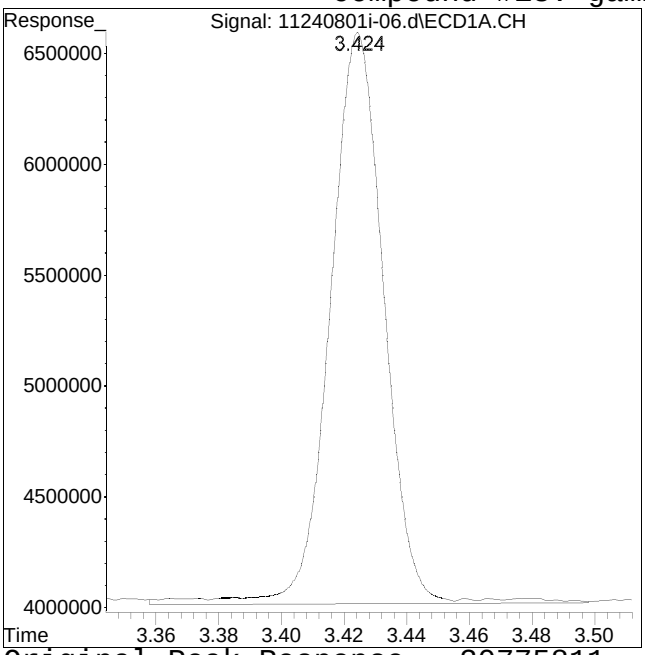
Original Peak Response = 35792422 Manual Peak Response = 33482006 M3

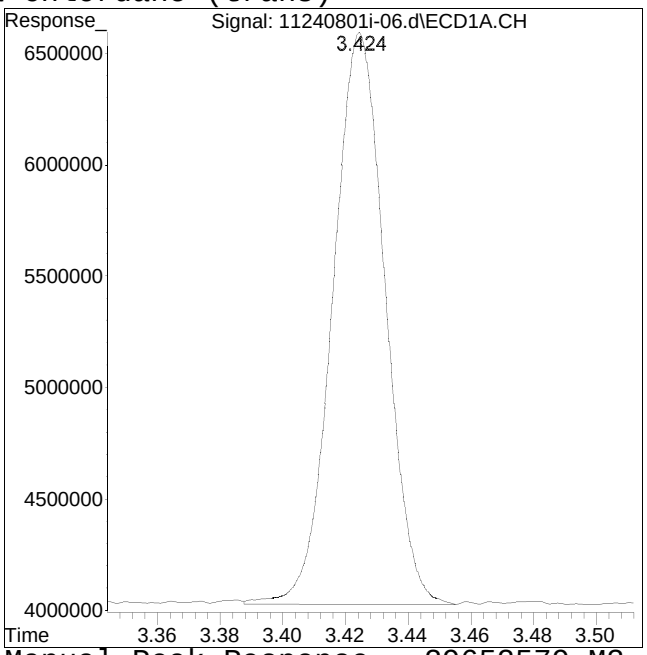
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #13: gamma-Chlordane (trans)





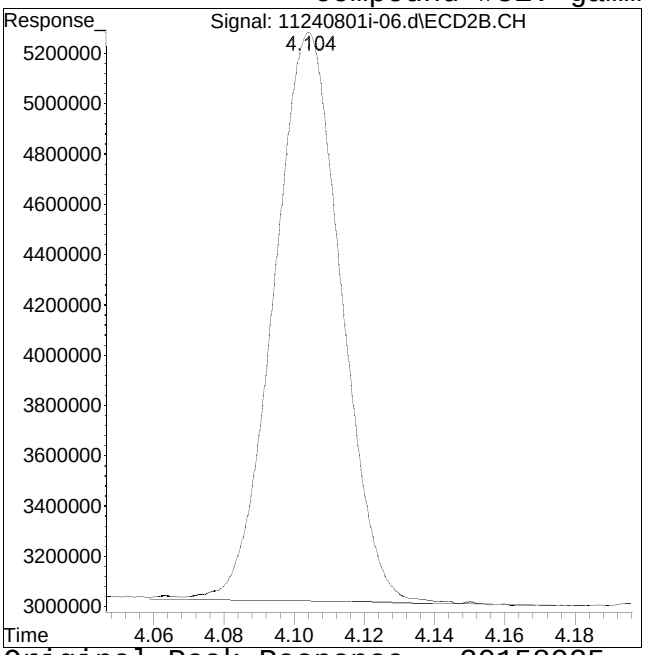
Original Peak Response = 30775811 Manual Peak Response = 29652579 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

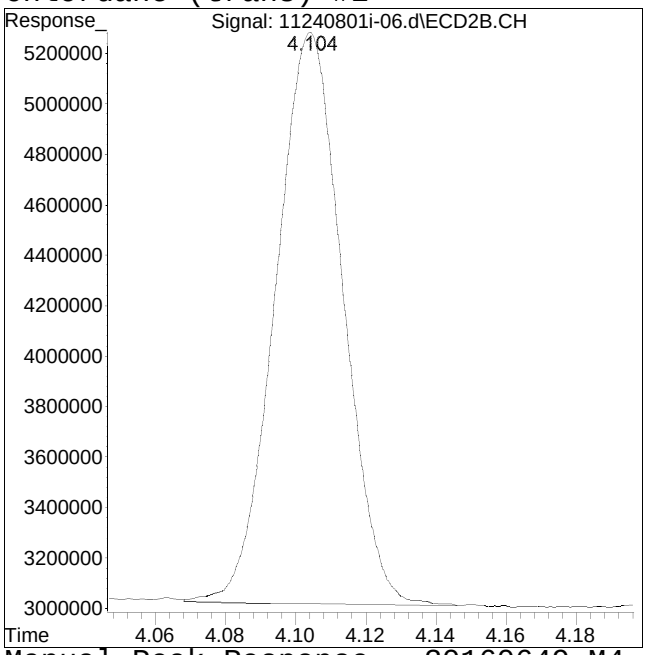
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 30158935



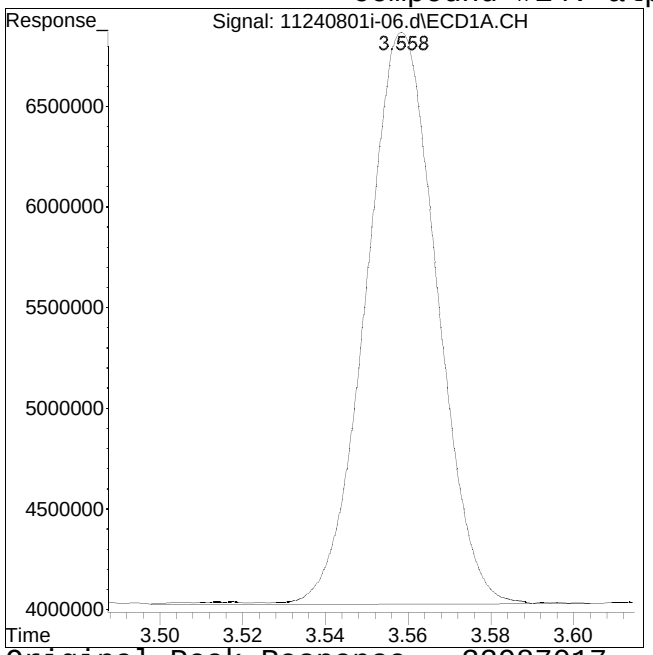
Manual Peak Response = 30160649 M4

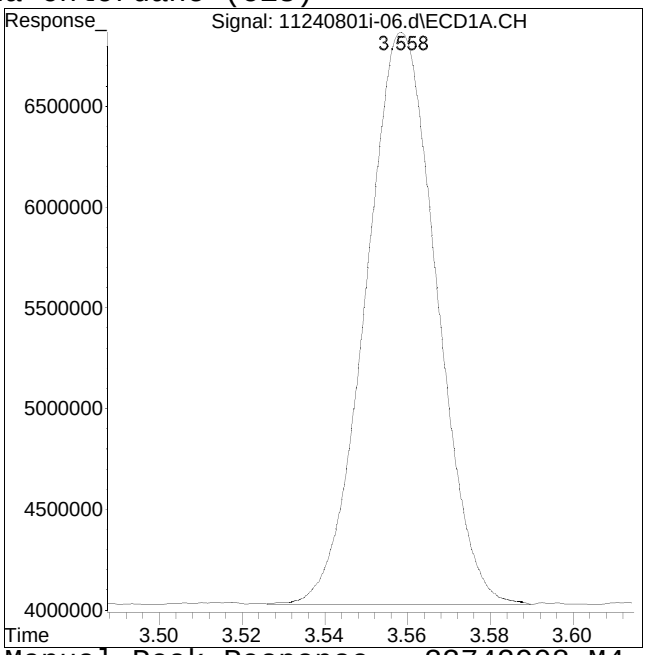
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #14: alpha-Chlordane (cis)





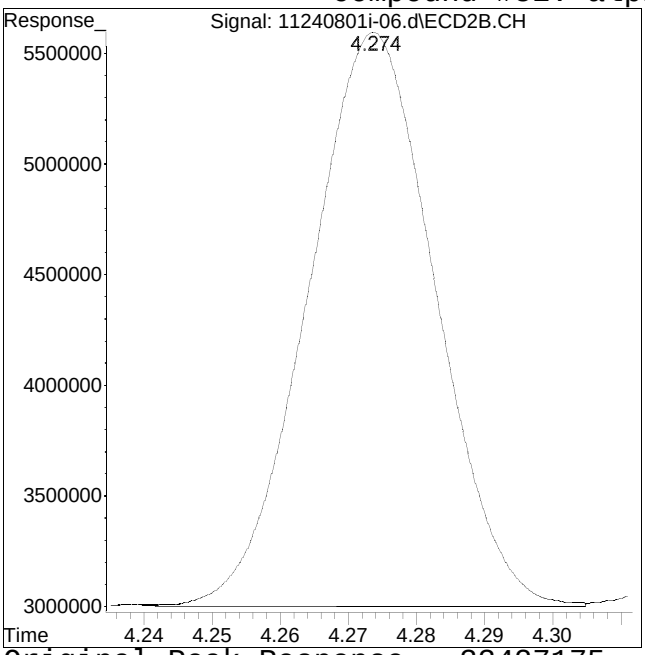
Original Peak Response = 33987017 Manual Peak Response = 33742908 M4
M4 = Poor automated baseline construction.

Manual Integration Report

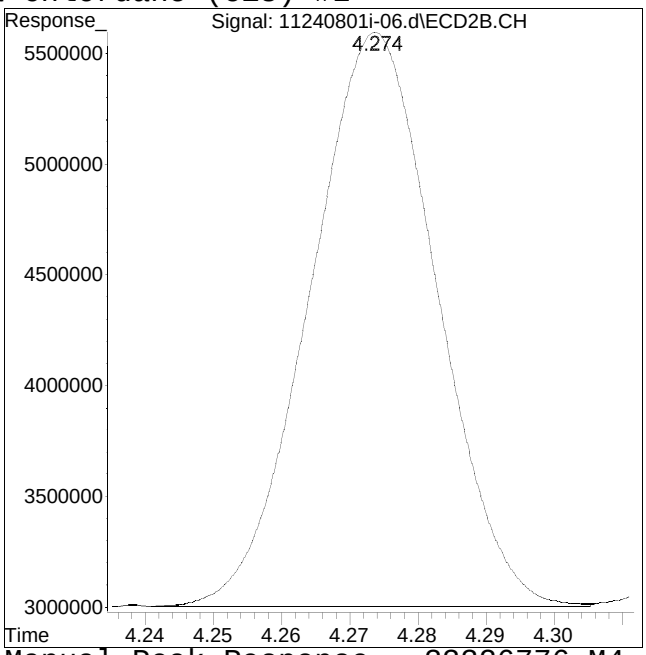
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 33427175



Manual Peak Response = 33326776 M4

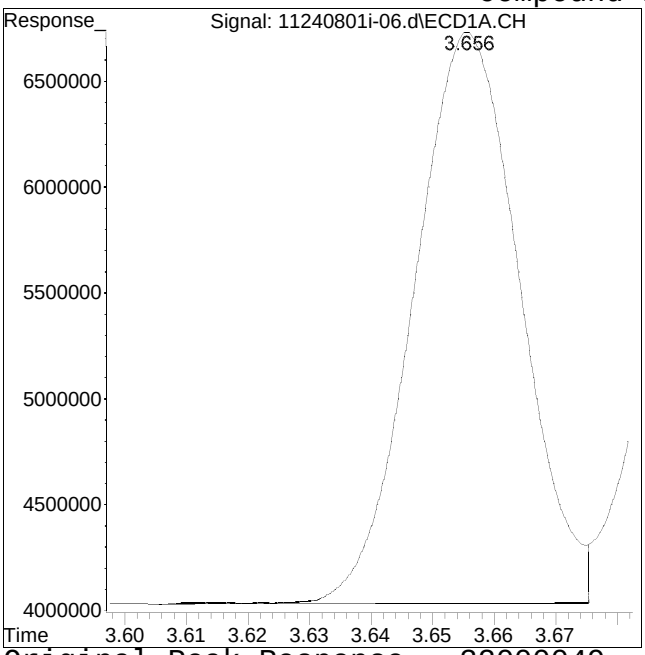
M4 = Poor automated baseline construction.

Manual Integration Report

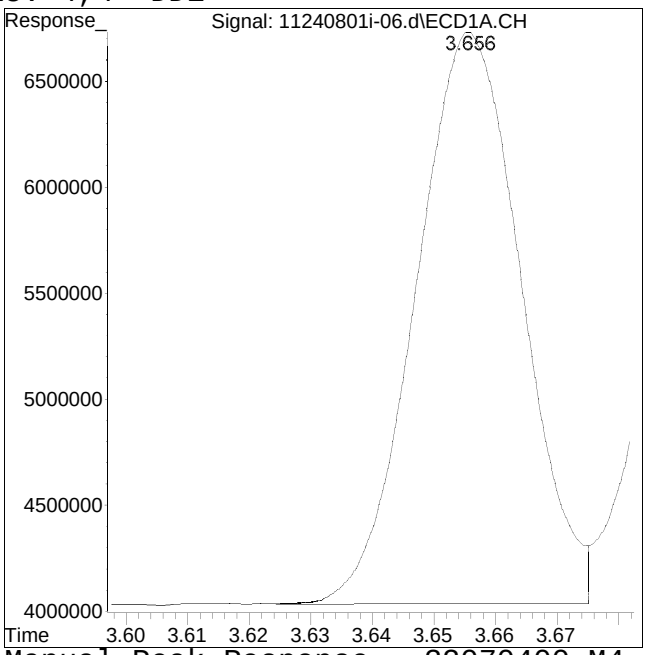
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #15: 4,4'-DDE



Original Peak Response = 32000049



Manual Peak Response = 32070400 M4

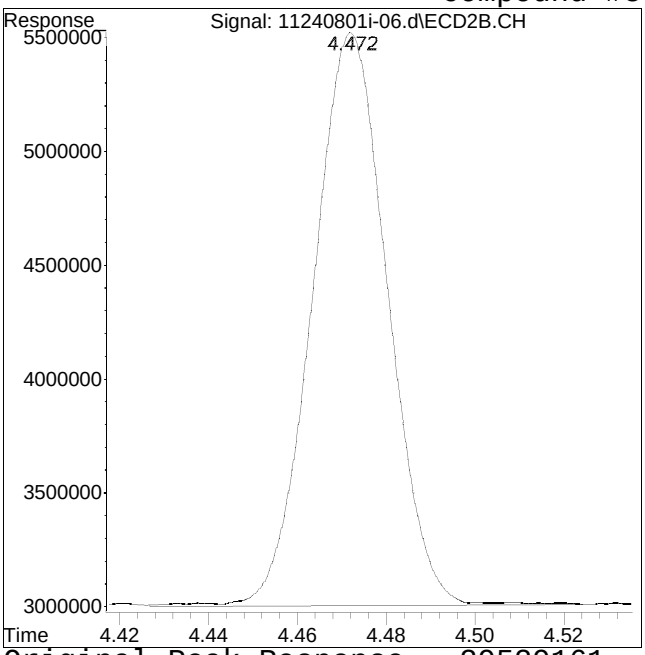
M4 = Poor automated baseline construction.

Manual Integration Report

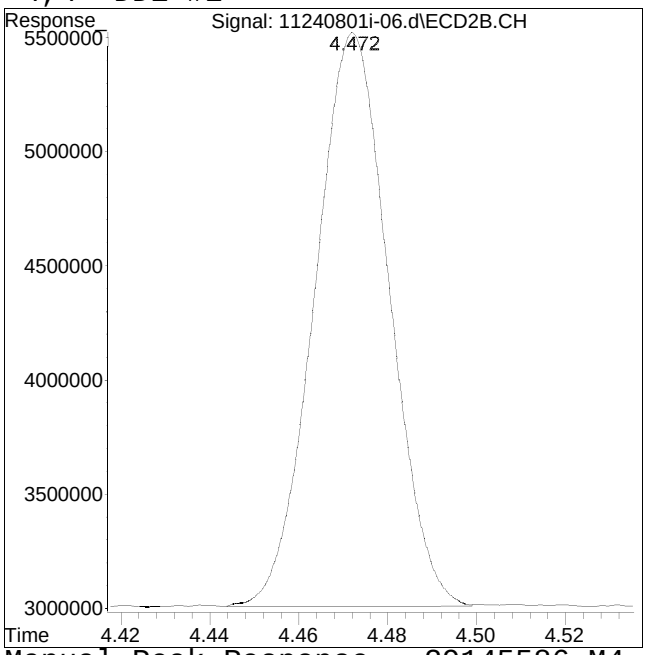
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 29529161



Manual Peak Response = 29145586 M4

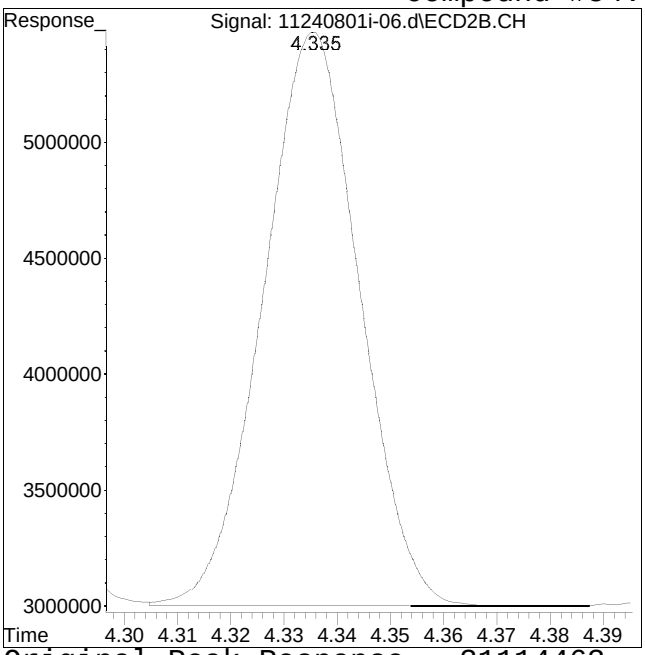
M4 = Poor automated baseline construction.

Manual Integration Report

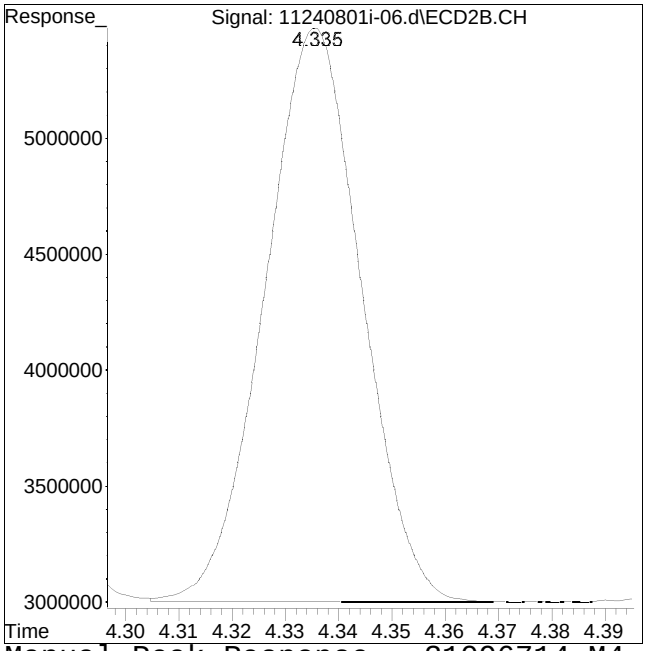
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #54: Endosulfan I #2



Original Peak Response = 31114463



Manual Peak Response = 31096714 M4

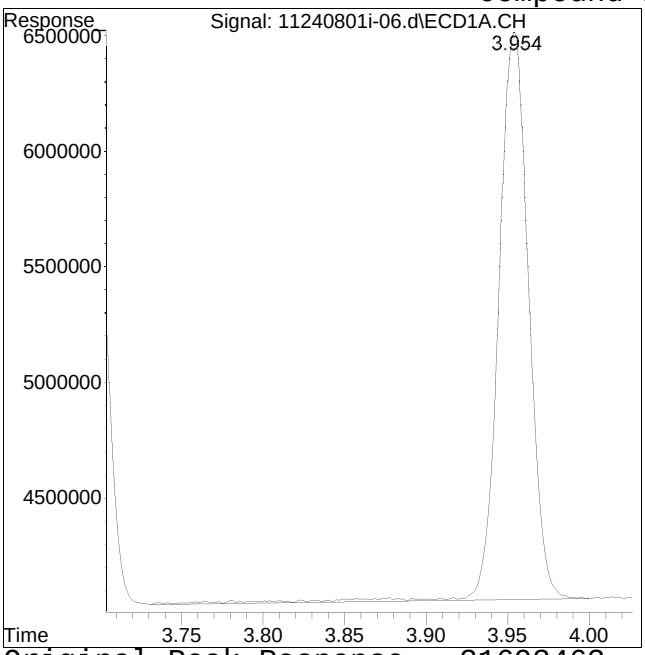
M4 = Poor automated baseline construction.

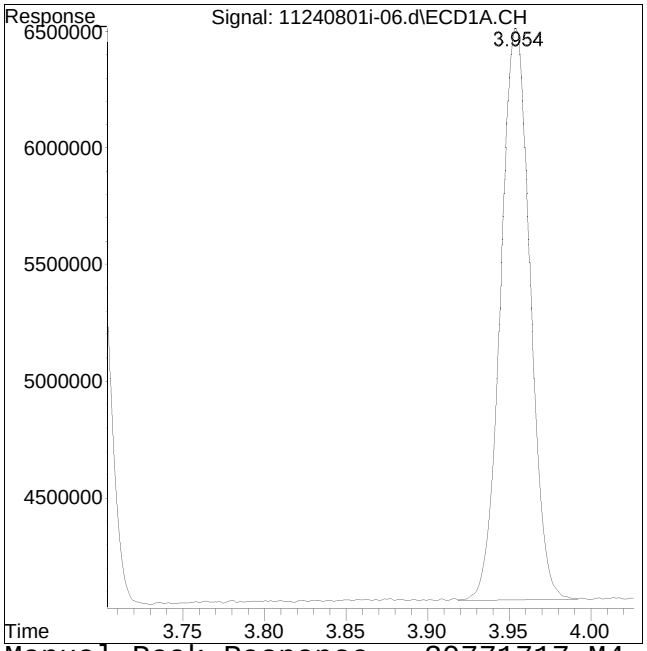
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #17: Dieldrin





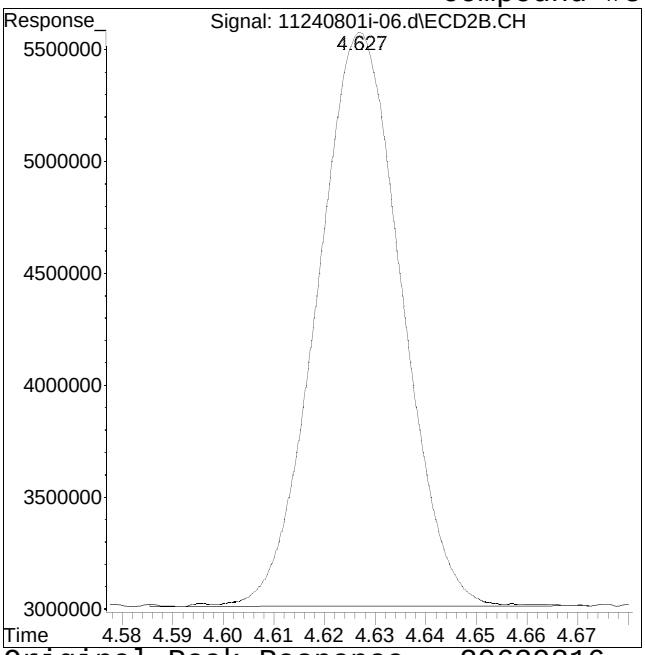
Original Peak Response = 31693463 Manual Peak Response = 30771717 M4
M4 = Poor automated baseline construction.

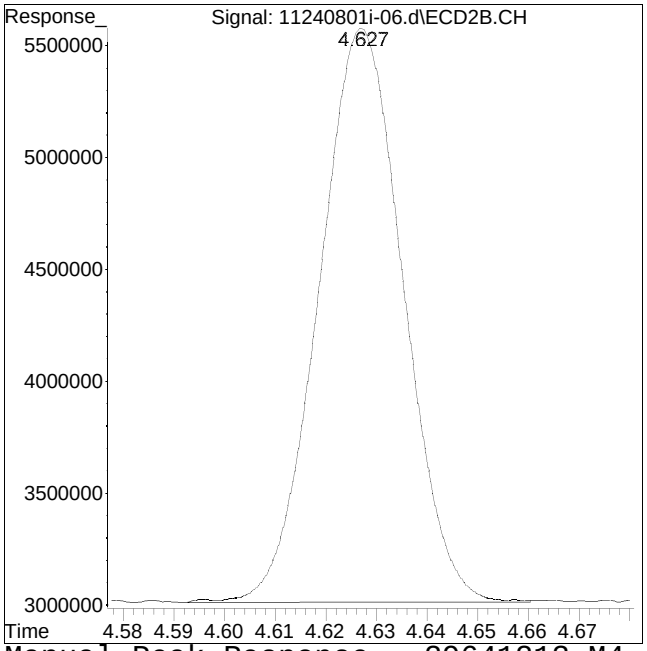
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #55: Dieldrin #2





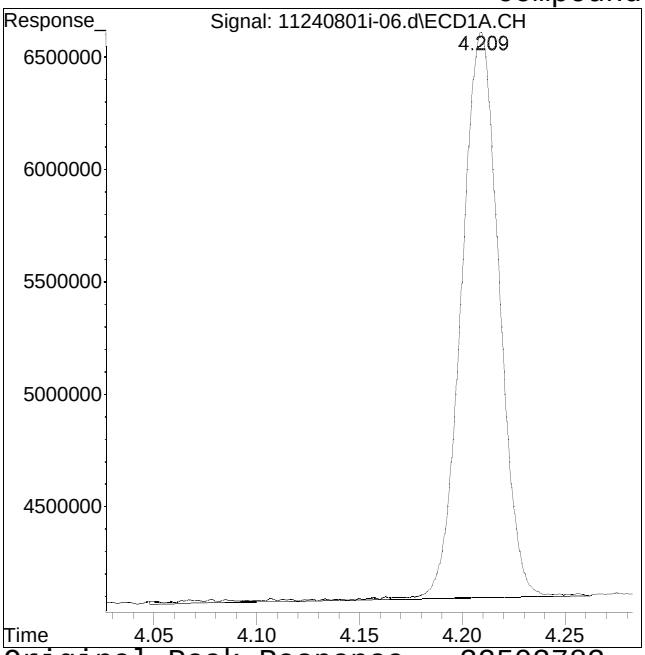
Original Peak Response = 29639216 Manual Peak Response = 29641213 M4
M4 = Poor automated baseline construction.

Manual Integration Report

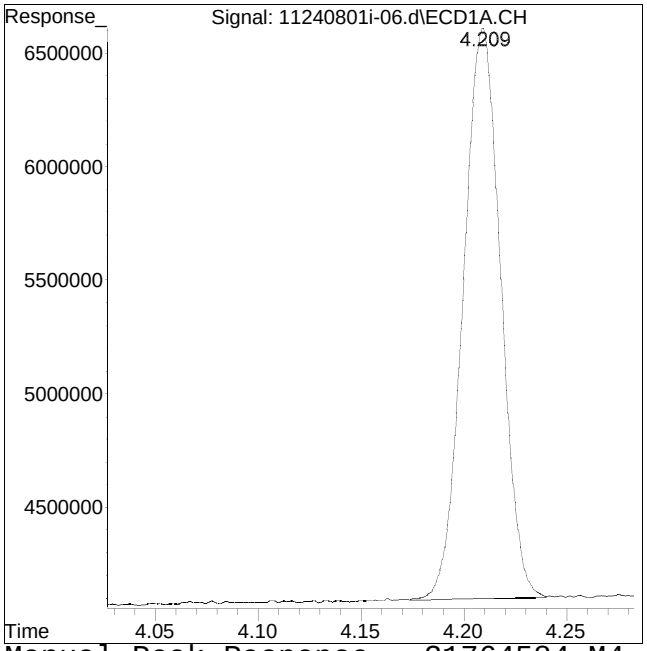
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #18: Endrin



Original Peak Response = 32503783



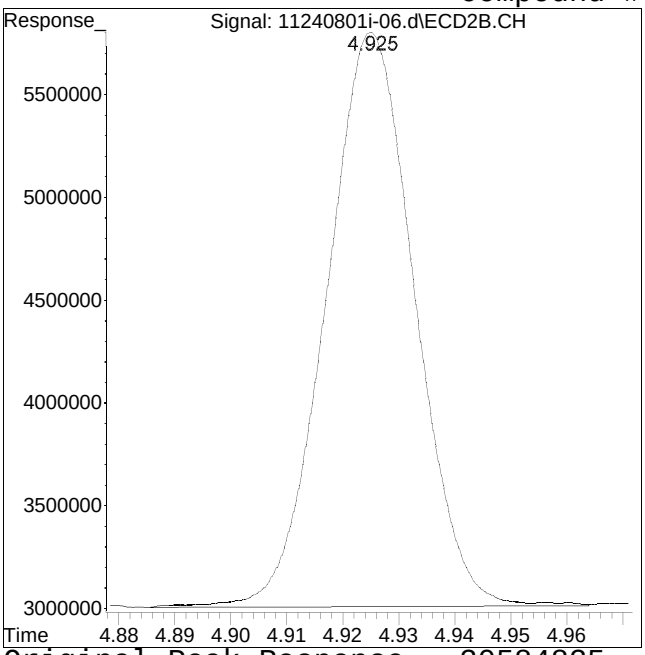
Manual Peak Response = 31764584 M4

M4 = Poor automated baseline construction.

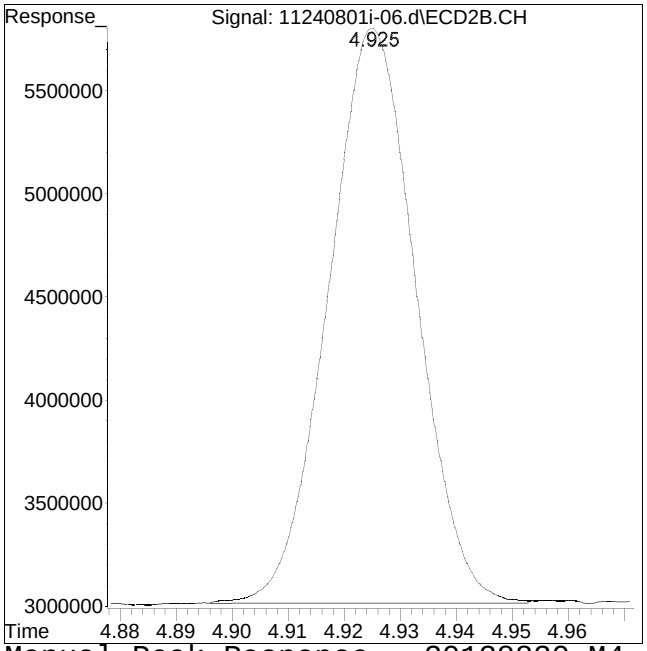
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #56: Endrin #2



Original Peak Response = 30584835



Manual Peak Response = 30138830 M4

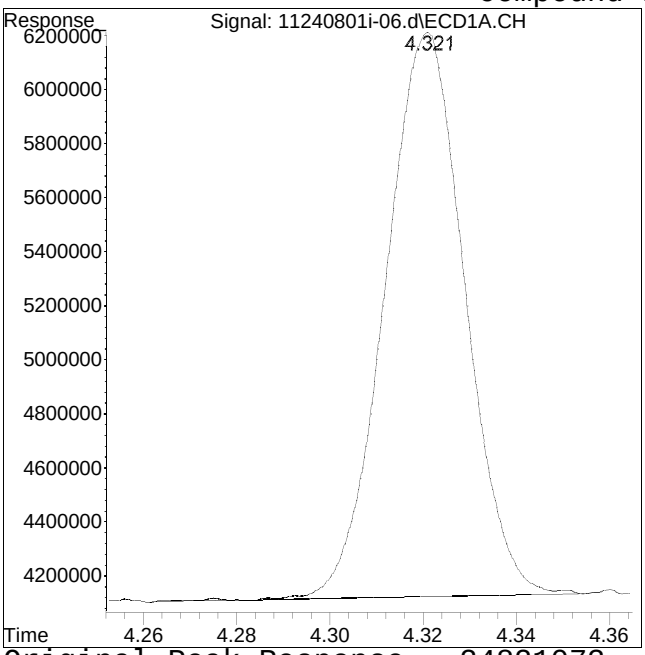
M4 = Poor automated baseline construction.

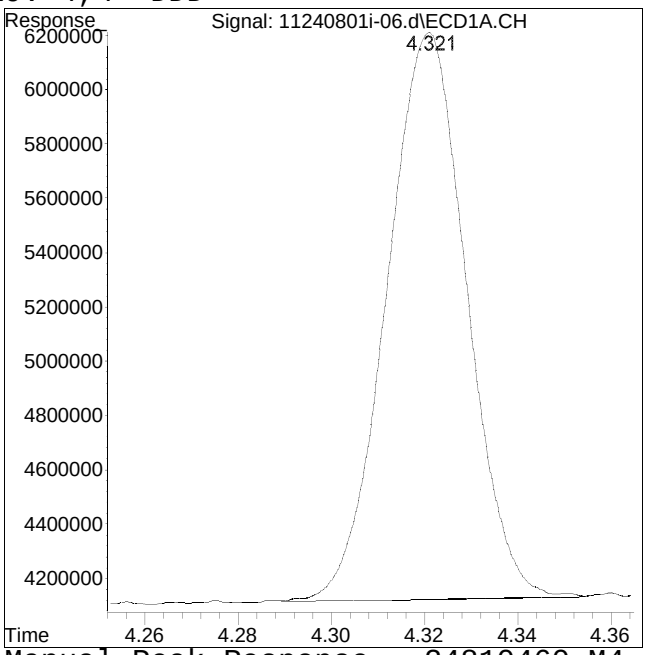
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #19: 4,4'-DDD



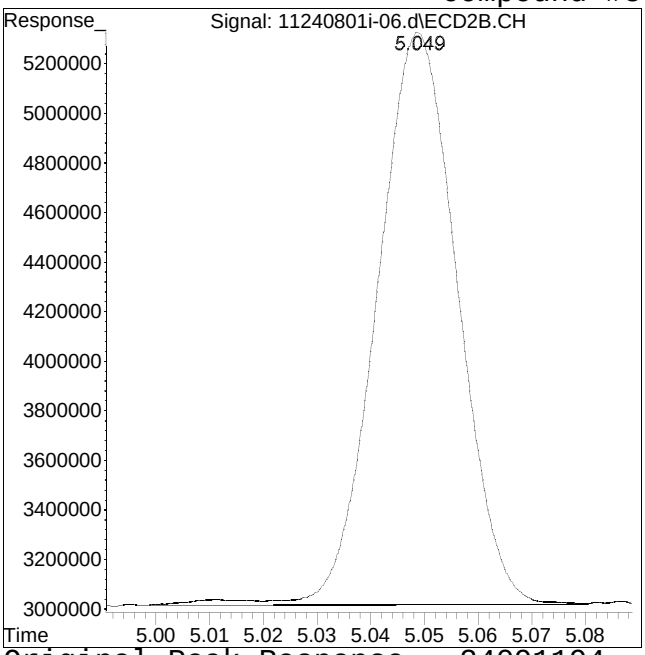


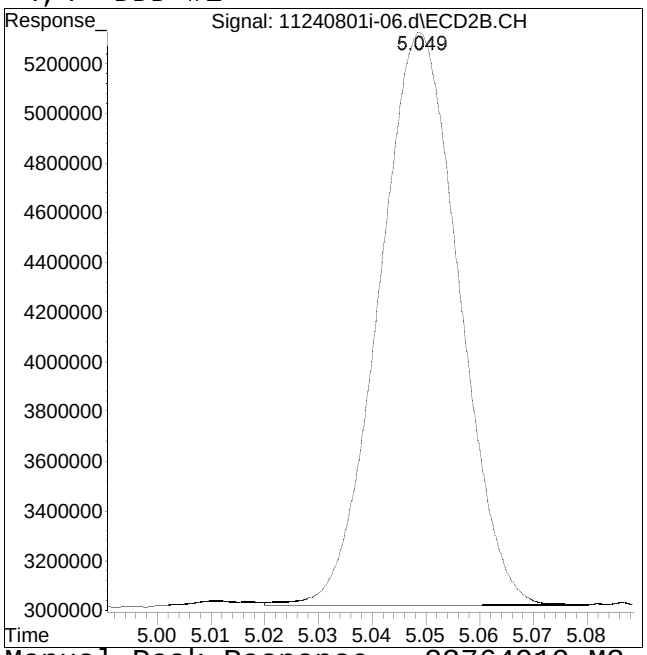
Original Peak Response = 24821073 Manual Peak Response = 24810460 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #57: 4,4'-DDD #2





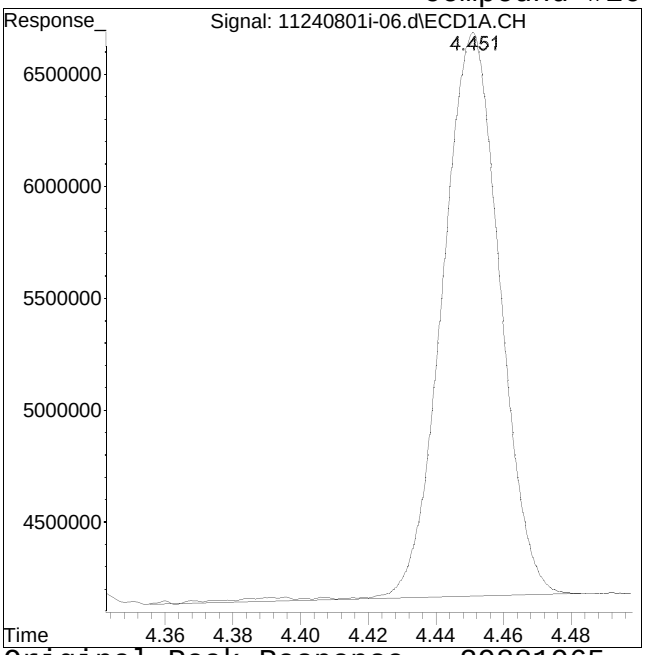
Original Peak Response = 24091194 Manual Peak Response = 23764919 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

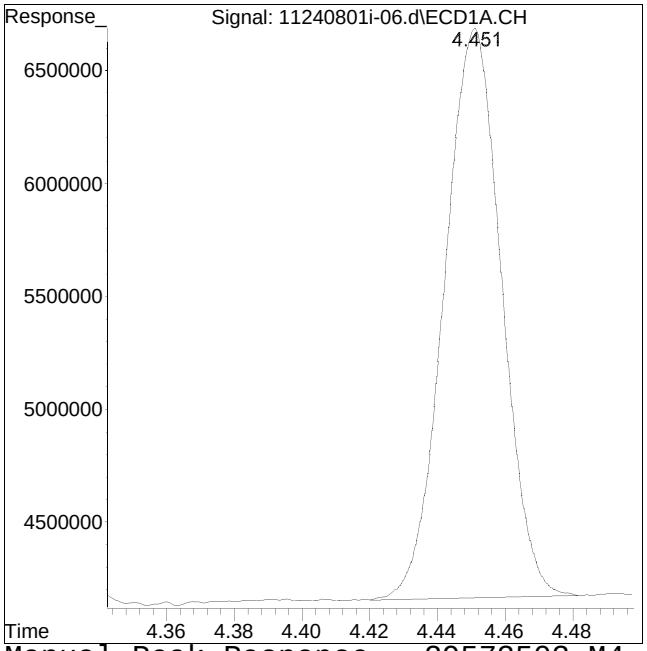
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #20: Endosulfan II



Original Peak Response = 29881965



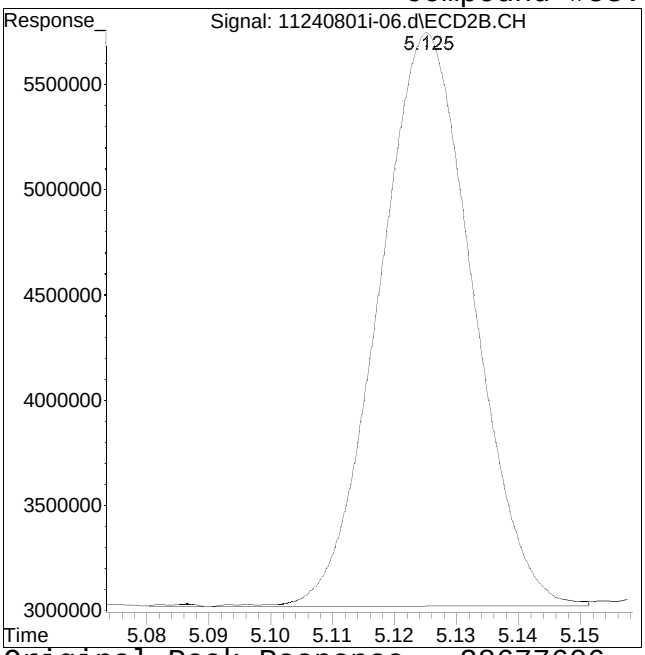
Manual Peak Response = 29573503 M4

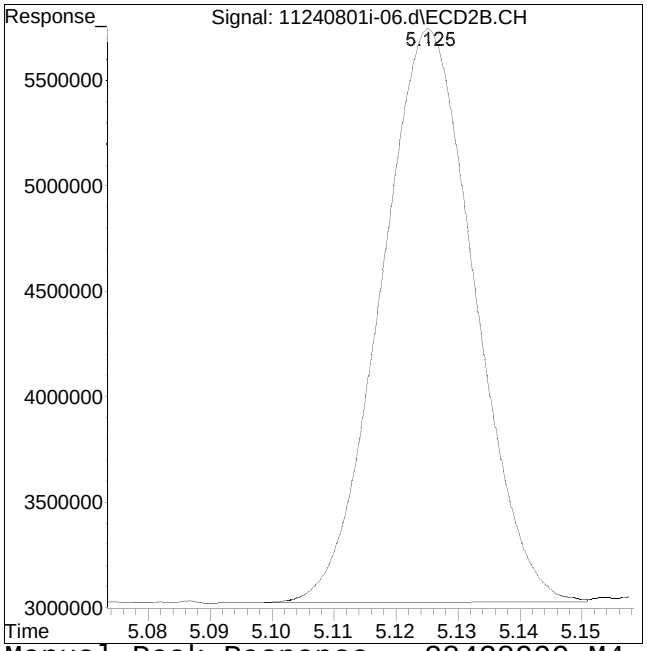
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #58: Endosulfan II #2





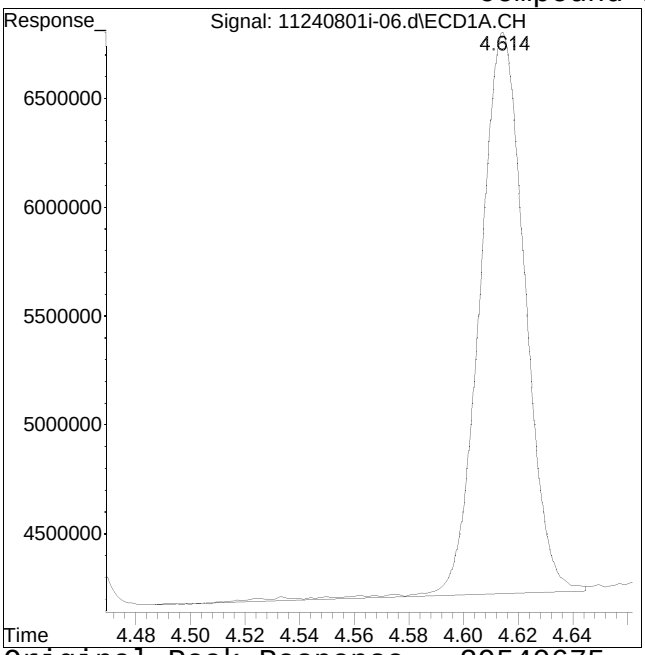
Original Peak Response = 28677606 Manual Peak Response = 28438999 M4
M4 = Poor automated baseline construction.

Manual Integration Report

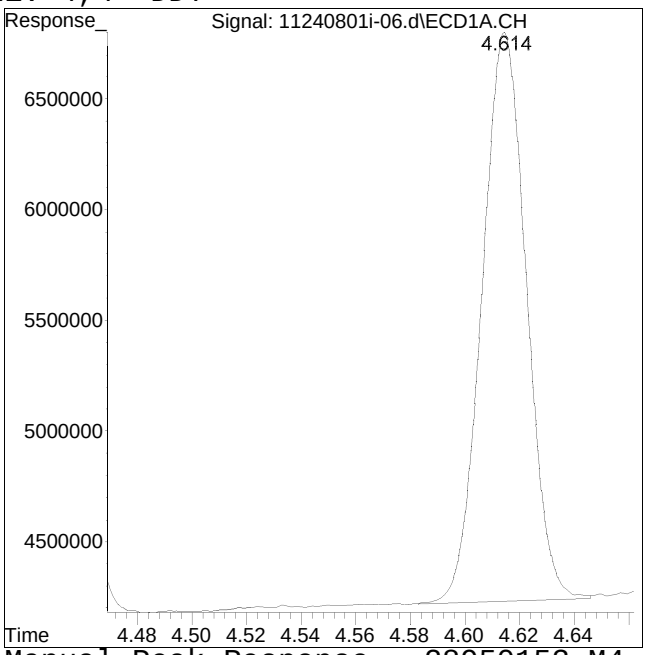
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #21: 4,4'-DDT



Original Peak Response = 29540675



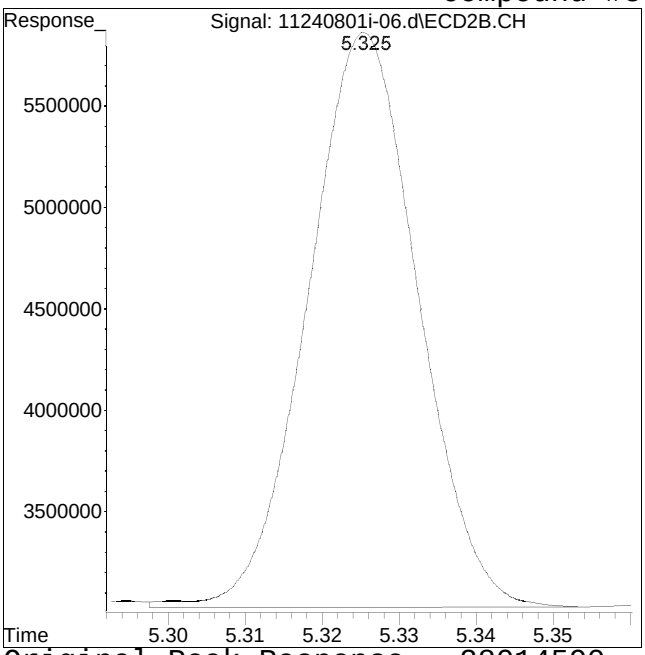
Manual Peak Response = 28950153 M4

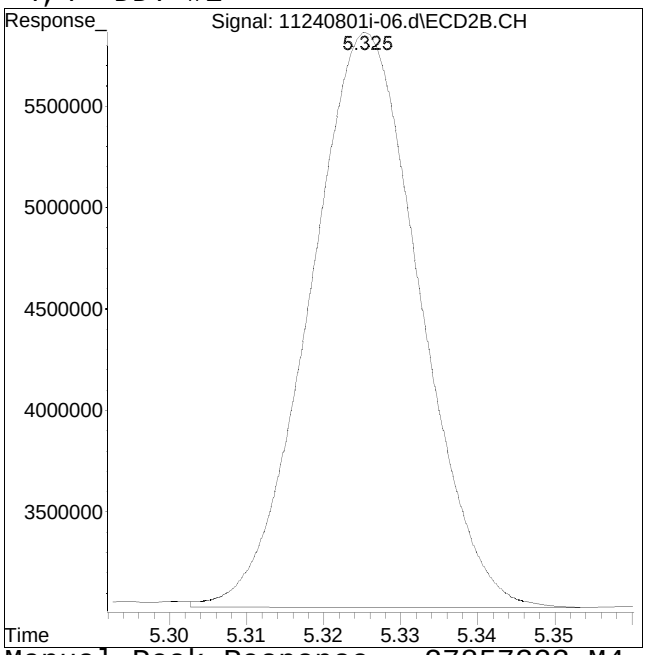
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #59: 4,4'-DDT #2



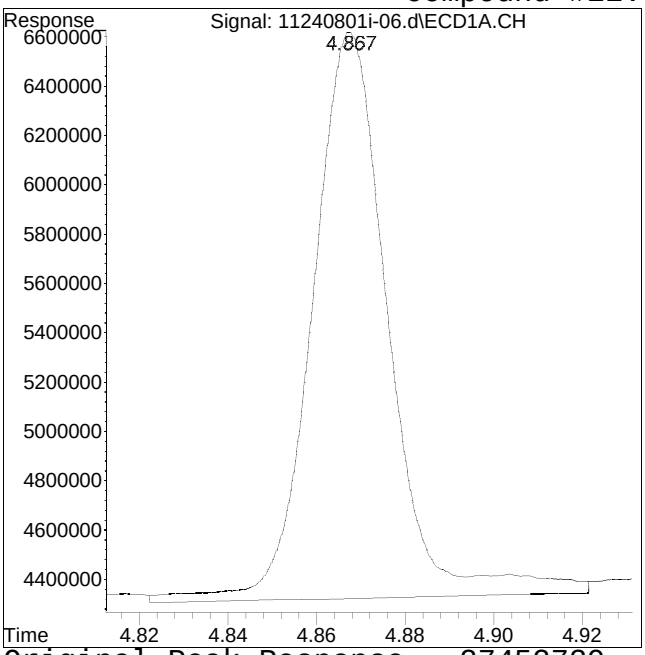


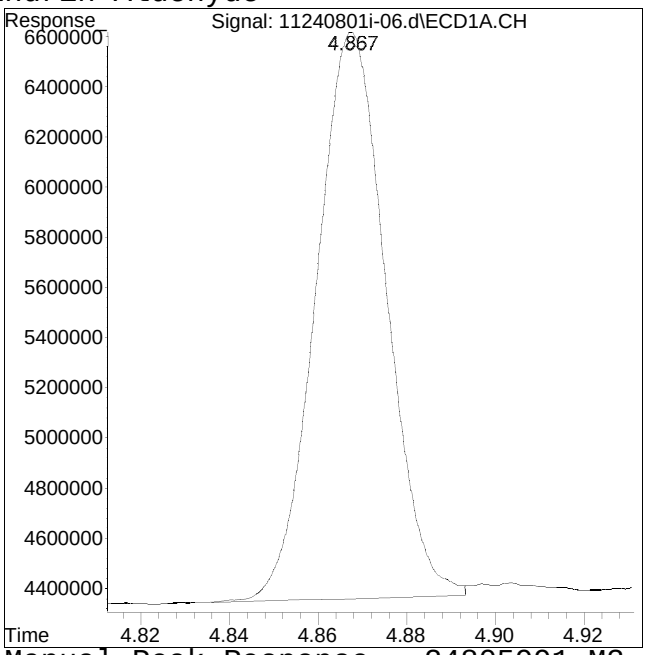
Original Peak Response = 28014590 Manual Peak Response = 27857323 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #22: Endrin Aldehyde





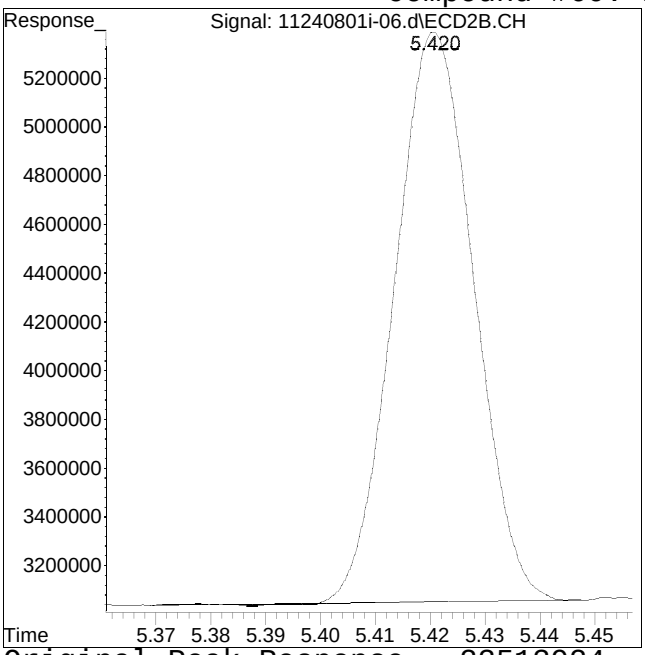
Original Peak Response = 27452739 Manual Peak Response = 24805991 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

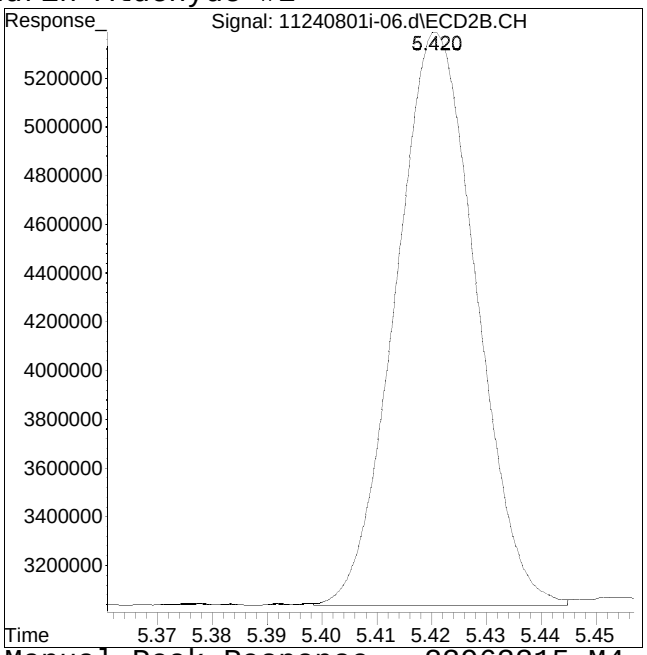
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 23513924



Manual Peak Response = 23963315 M4

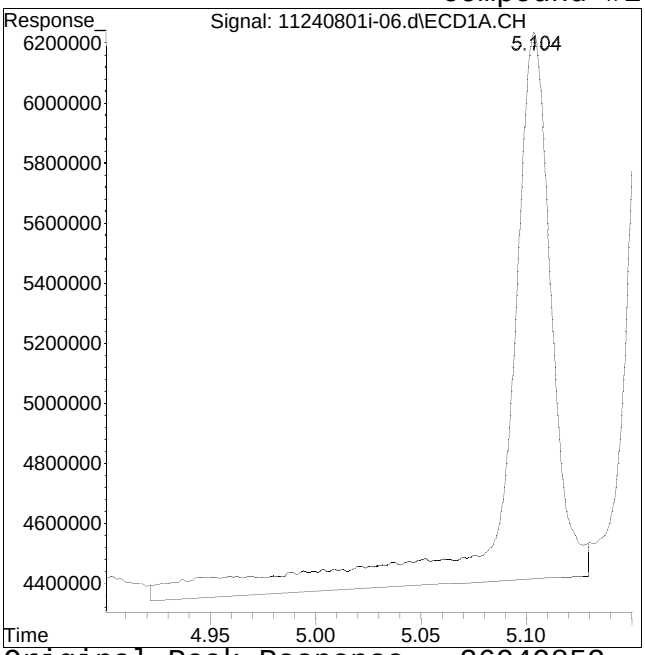
M4 = Poor automated baseline construction.

Manual Integration Report

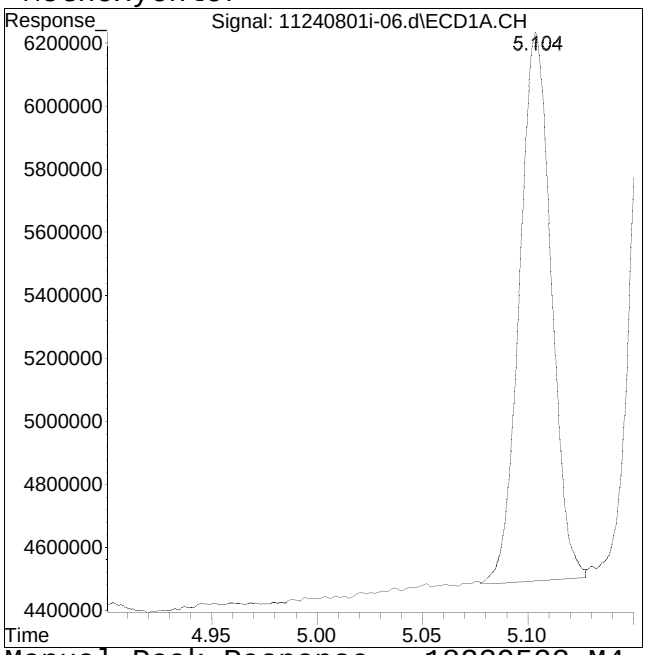
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #23: Methoxychlor



Original Peak Response = 26949852



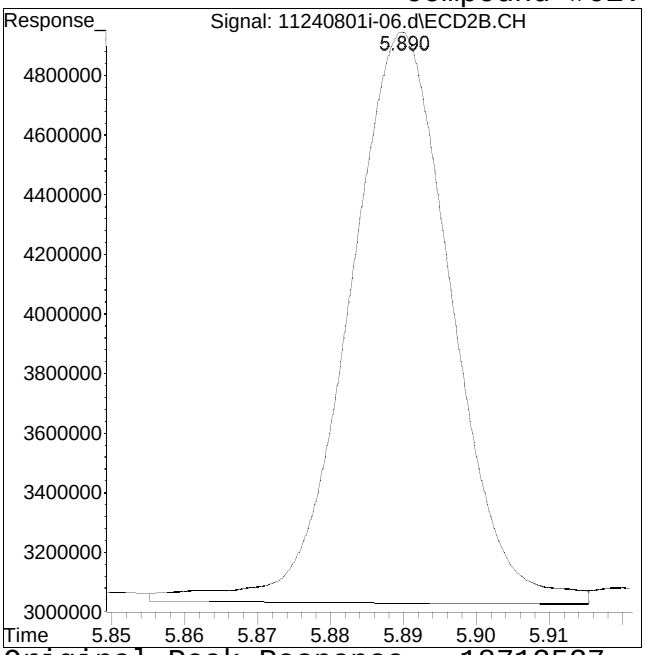
Manual Peak Response = 18239522 M4

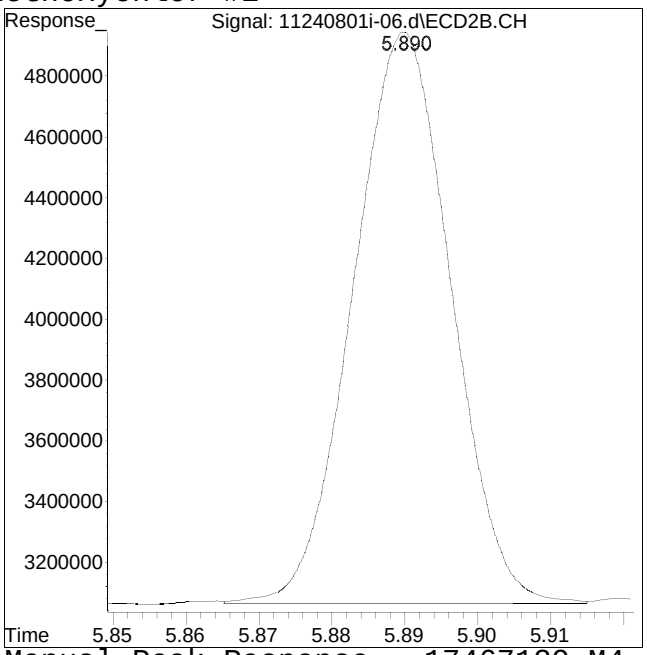
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #61: Methoxychlor #2



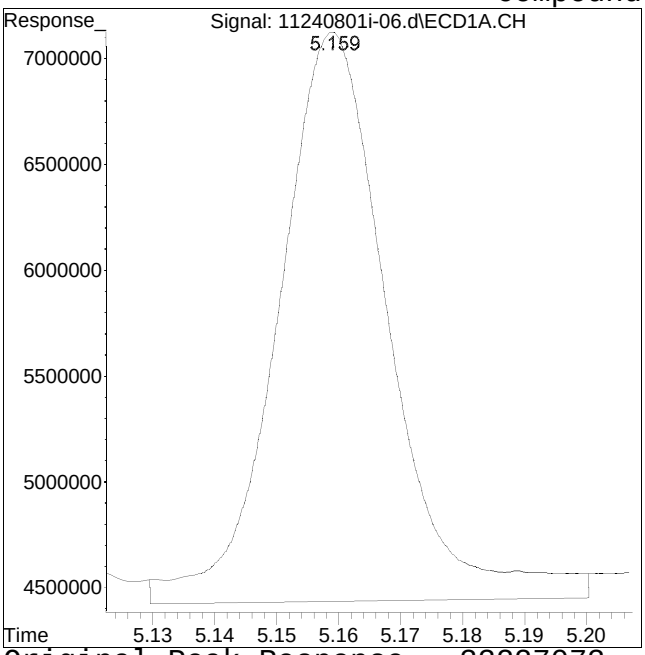


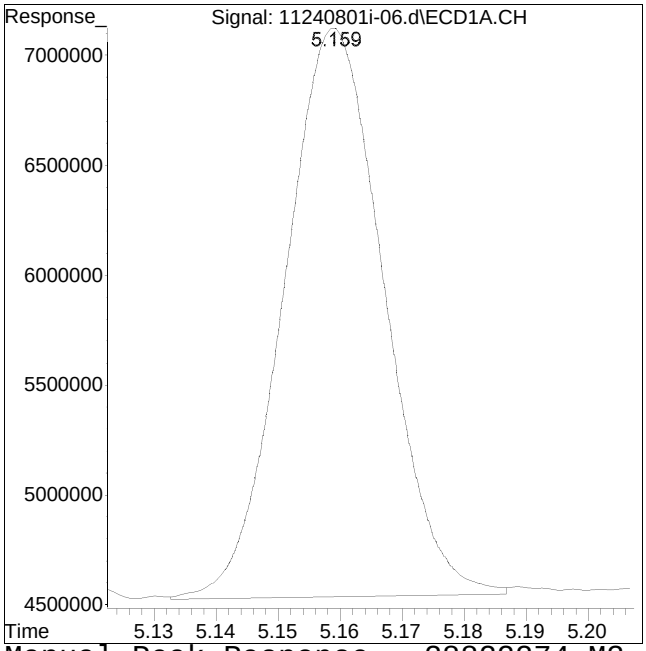
Original Peak Response = 18712537 Manual Peak Response = 17467129 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-06.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:13 Instrument : Pest 11
Sample : il4pest,42e,,pp 11684 L0.0Quant Date : 8/2/2024 11:00 am

Compound #24: Mirex





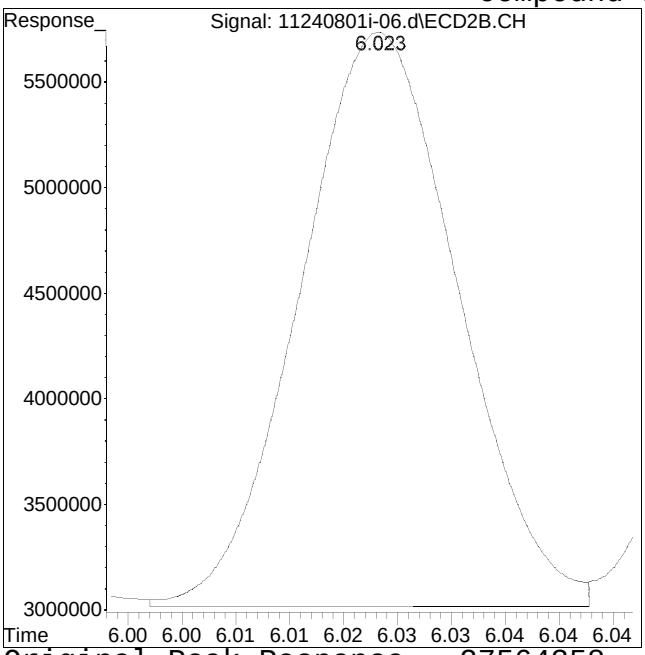
Original Peak Response = 33227073 Manual Peak Response = 28822274 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

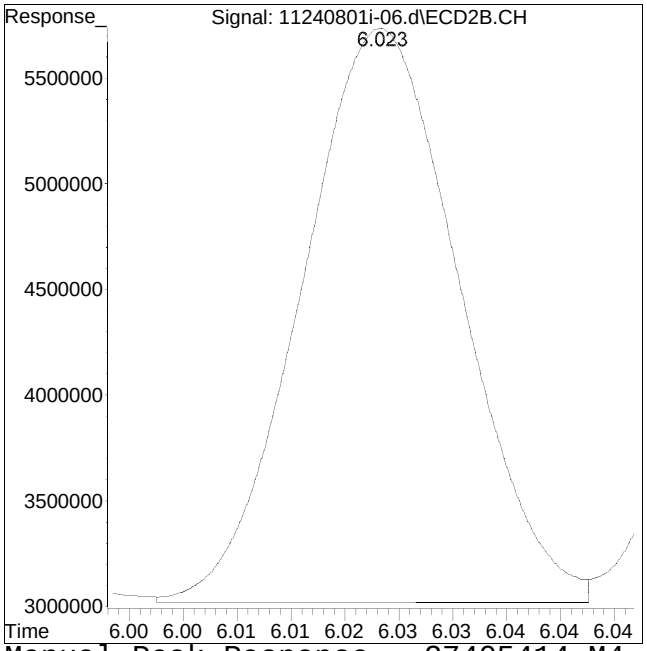
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #62: Mirex #2



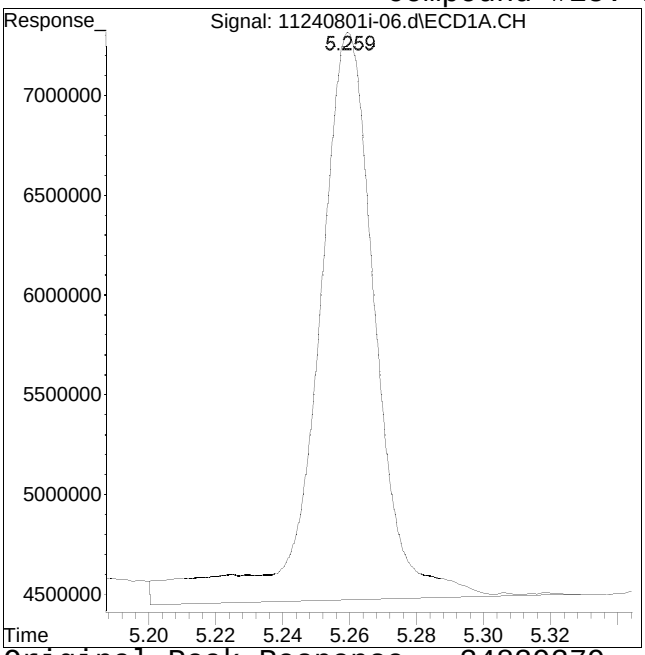


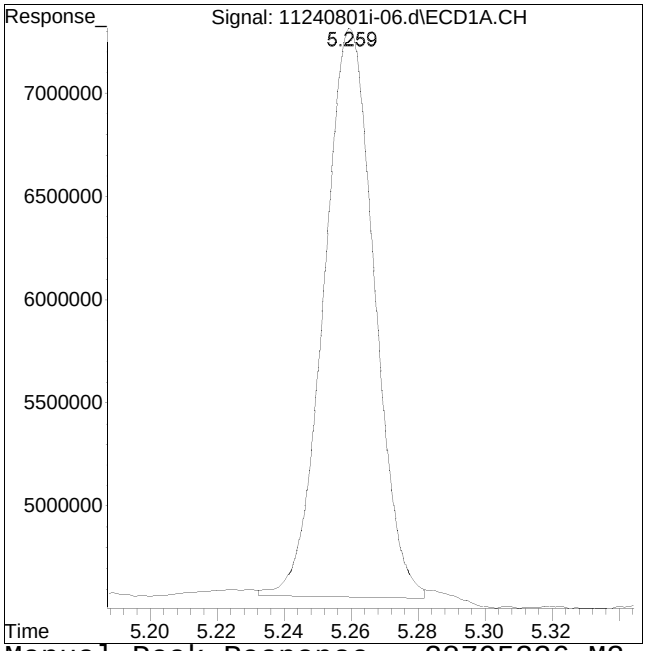
Original Peak Response = 27564358 Manual Peak Response = 27405414 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 34839379 Manual Peak Response = 28795336 M3

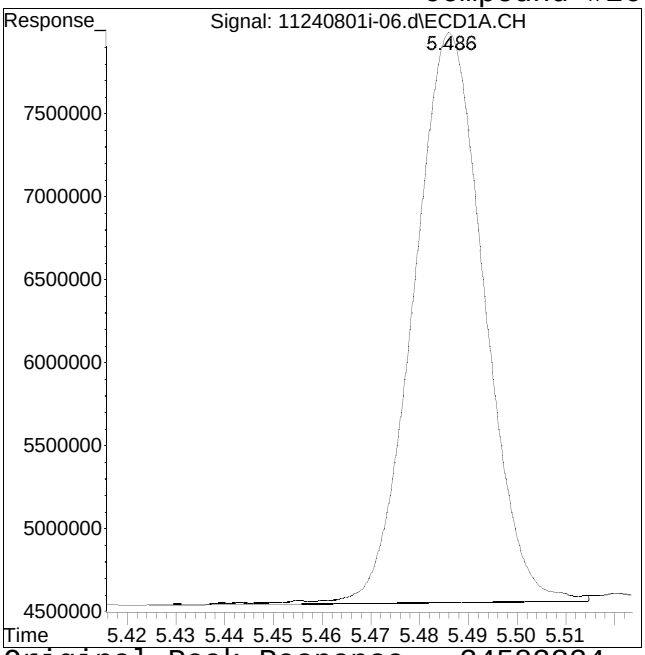
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

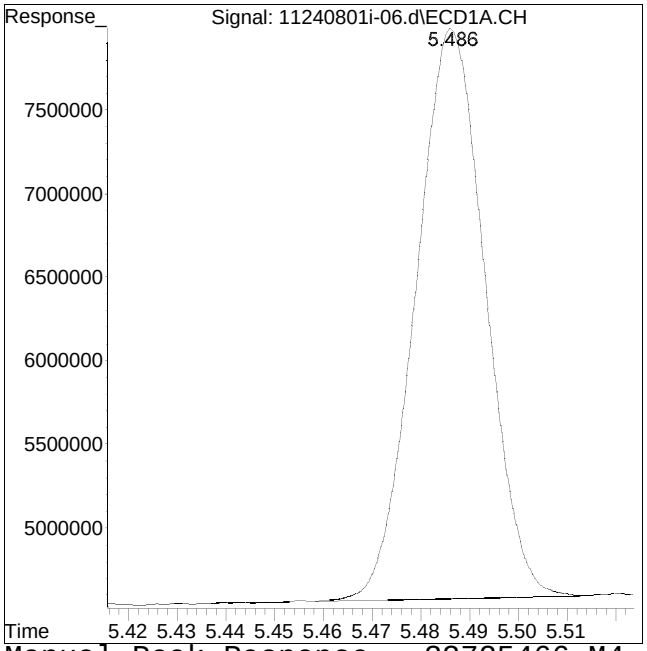
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #26: Endrin Ketone



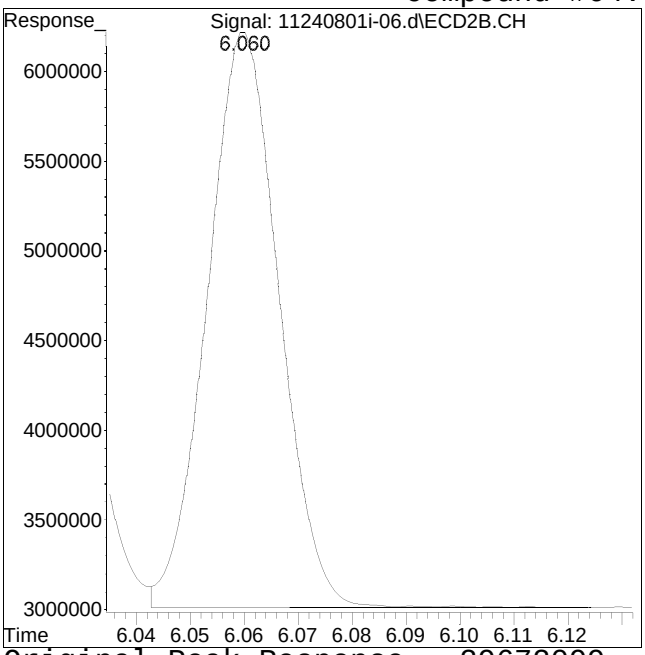


Original Peak Response = 34583334 Manual Peak Response = 33725466 M4
M4 = Poor automated baseline construction.

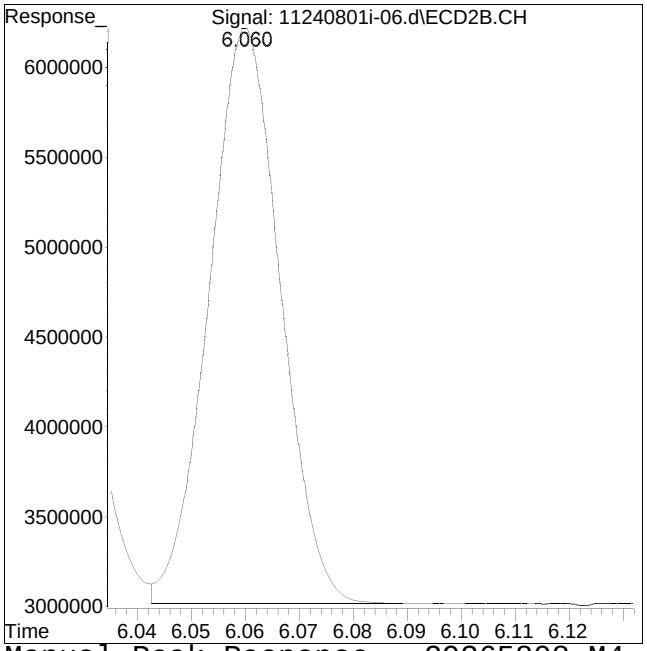
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #64: Endrin Ketone #2



Original Peak Response = 29672099



Manual Peak Response = 29365808 M4

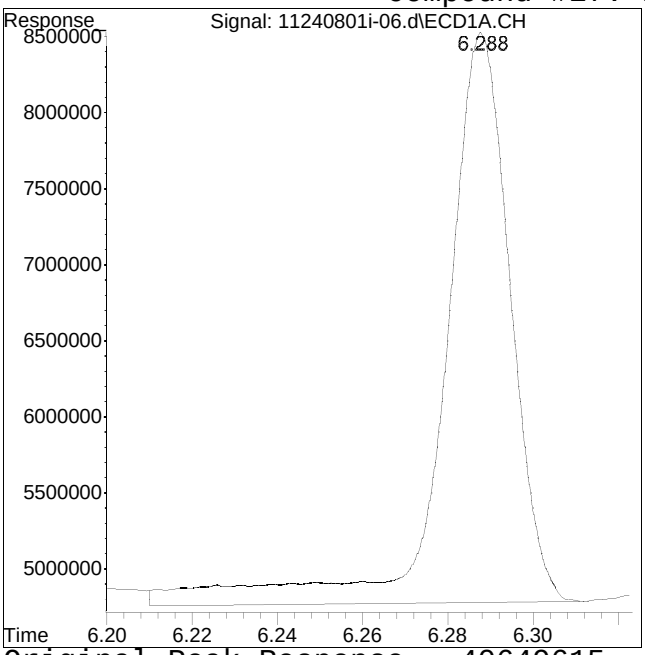
M4 = Poor automated baseline construction.

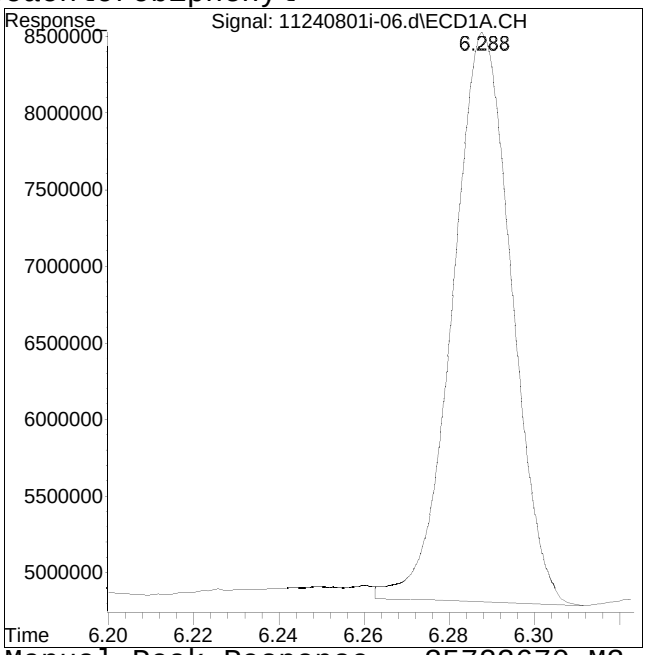
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-06.d
Date Inj'd : 8/1/2024 19:13
Sample : il4pest,42e,,pp 11684 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:00 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 40649615 Manual Peak Response = 35723670 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	236.8E6	187.7E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.651	1.858	38521121	33228326	3.958M4	4.126M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.92%#	8.25%#
27) s	Decachlorobi	6.288	6.922	45749494	33190514	4.585M3	4.626M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.17%#	9.25%#
	Target Compounds						
3) t	Hexachlorobe	1.864	2.177	53831993	37517540	4.262M3	4.355M3
4) t	alpha-BHC	1.963	2.270	50099814	44404100	3.378	3.499M4
5) t	gamma-BHC (l	2.165	2.556	48429966	42423894	3.532M4	3.691M4
6) t	beta-BHC	2.221	2.622	23627338	22130202	4.112M4	4.572M4
7) t	delta-BHC	2.349	2.889	47212643	42358835	3.409M4	3.618
8) t	Heptachlor	2.513	2.951	48539979	47303379	3.873M4	4.125M4
9) t	Aldrin	2.755	3.270	43725904	41038709	3.629M3	3.833M4
10) t	Alachlor	2.876	3.152	8846077	7914947	4.229M4	5.313M4
11) t	Chlorpyrifos	2.968	3.506	24028161	29105048	4.744M4	5.206

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	43926945	42803293	3.942M3	4.261M4
13)	t	gamma-Chlord	3.424	4.104	38878589	38970708	3.786M4	4.193M4
14)	t	alpha-Chlord	3.559	4.273	44728489	43103625	3.859M3	4.197M4
15)	t	4,4'-DDE	3.656	4.472	42411214	37932784	3.626M4	3.740M3
16)	t	Endosulfan I	3.695	4.335	41113069	40054576	3.894	4.272M4
17)	t	Dieldrin	3.954	4.627	40416298	38468360	3.654M4	3.937M4
18)	t	Endrin	4.209	4.925	41670444	39189618	3.747M4	3.963M4
19)	t	4,4'-DDD	4.321	5.049	32563209	30675797	3.557M4	3.766M4
20)	t	Endosulfan I	4.451	5.125	38878709	36626235	3.907M4	4.280M4
21)	t	4,4'-DDT	4.615	5.326	37823947	35899886	3.661M4	3.859M4
22)	t	Endrin Aldeh	4.868	5.421	32912480	30791502	3.951M4	4.329M4
23)	t	Methoxychlor	5.103	5.890	23121492	22184815	4.437M4	4.706M4
24)	t	Mirex	5.159	6.023	37112581	34701868	4.423M4	4.946M4
25)	t	Endosulfan S	5.259	5.650	37357641	36575099	4.010M3	4.387M4
26)	t	Endrin Keton	5.486	6.060	44230088	37958462	3.979M4	4.219M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

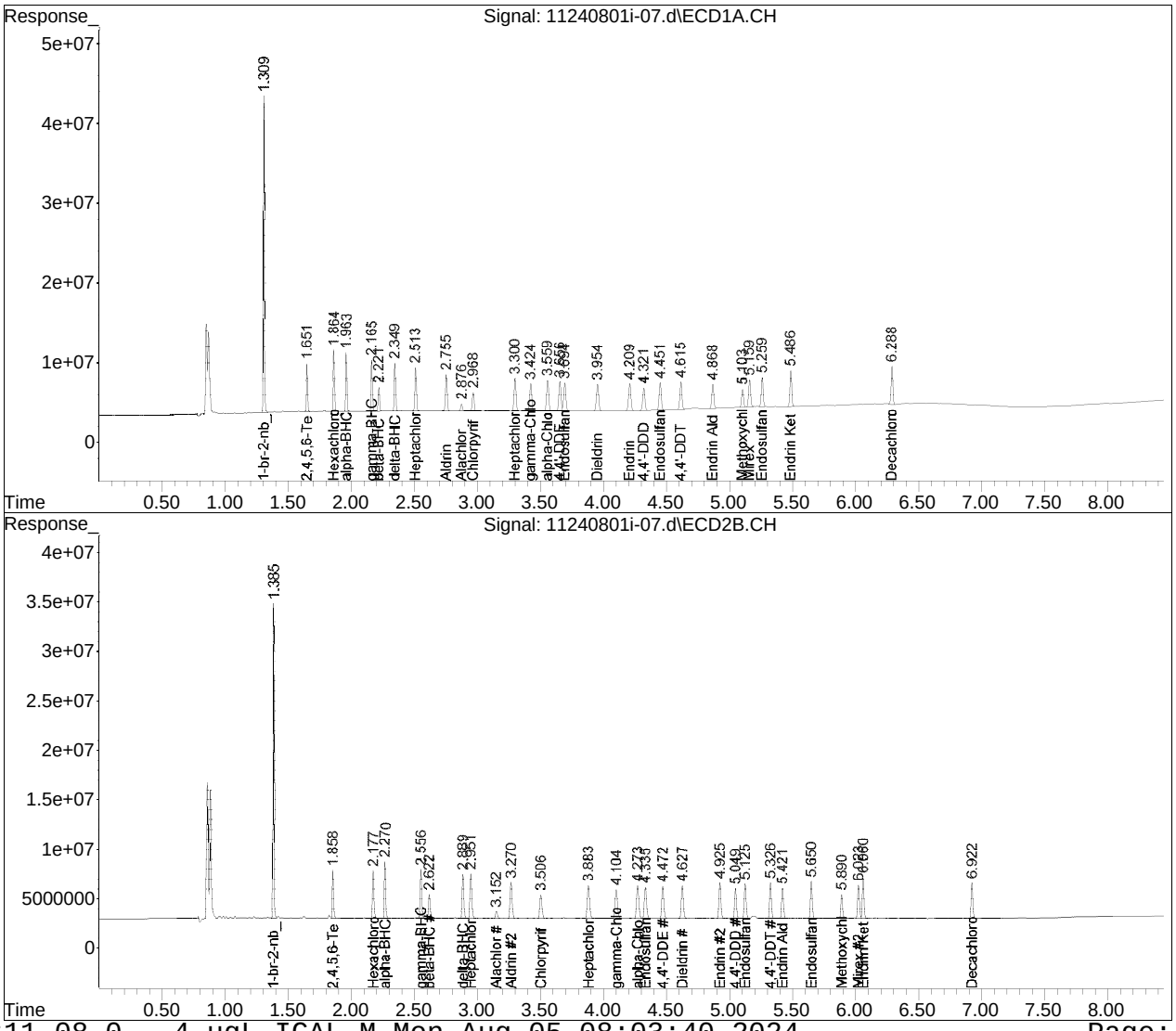
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:25
Operator : PEST11:ejl
Sample : il5pest,42e,,pp 11683 L0.004
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:53:34 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:53:25 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

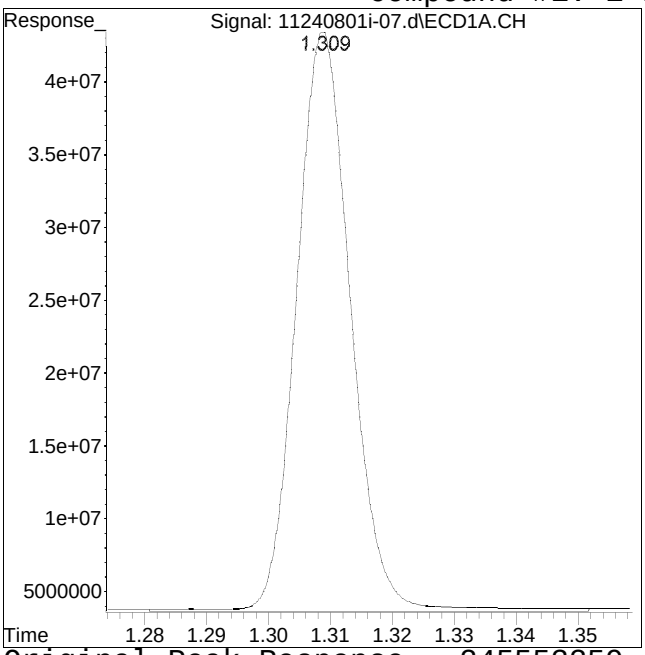


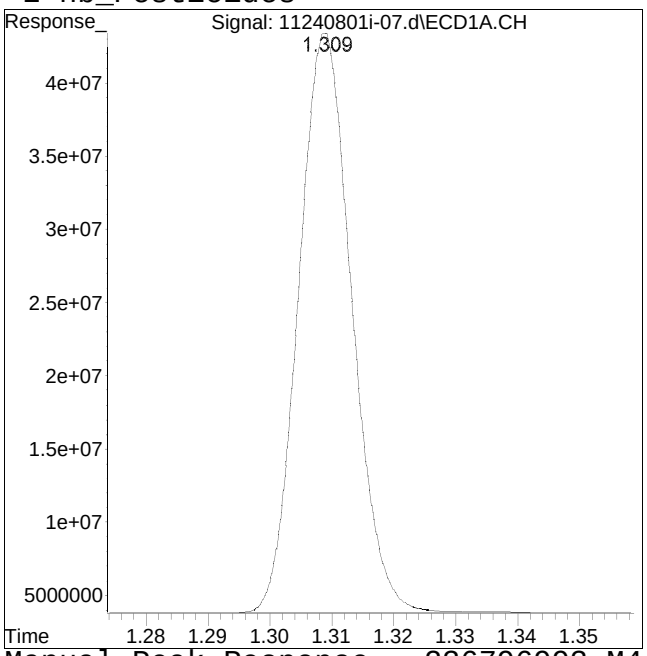
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #1: 1-br-2-nb_Pesticides



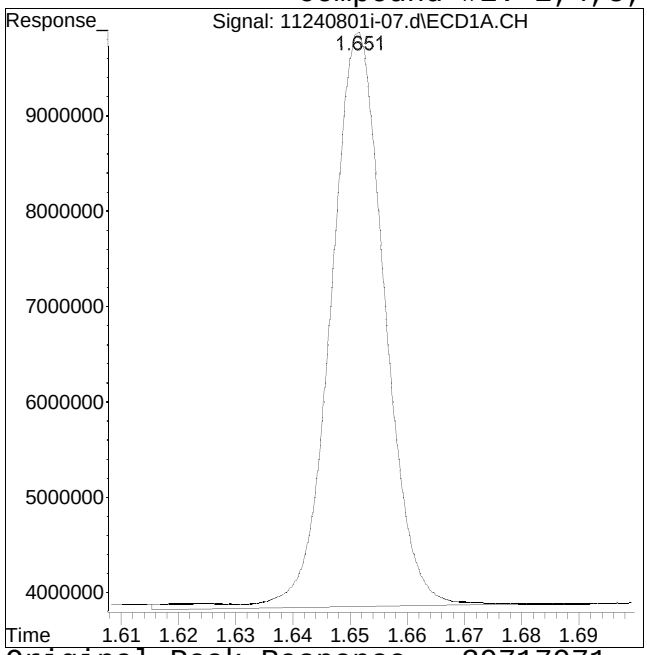


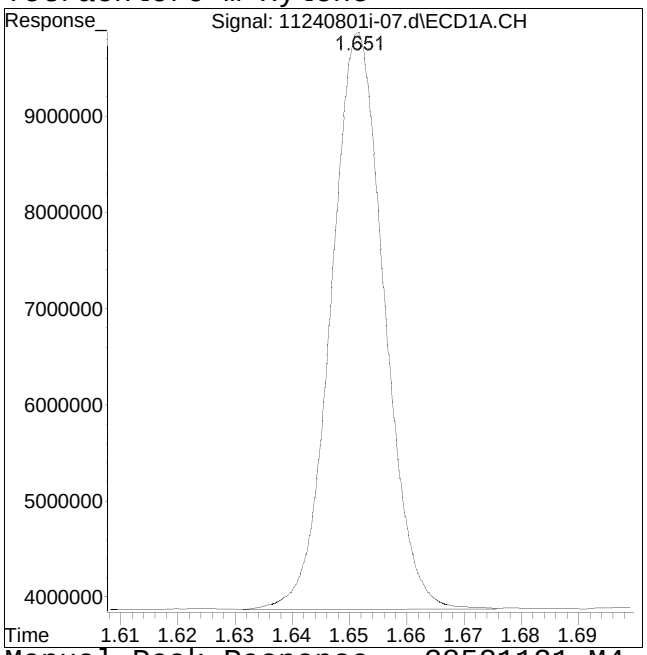
Original Peak Response = 245553359 Manual Peak Response = 236796993 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



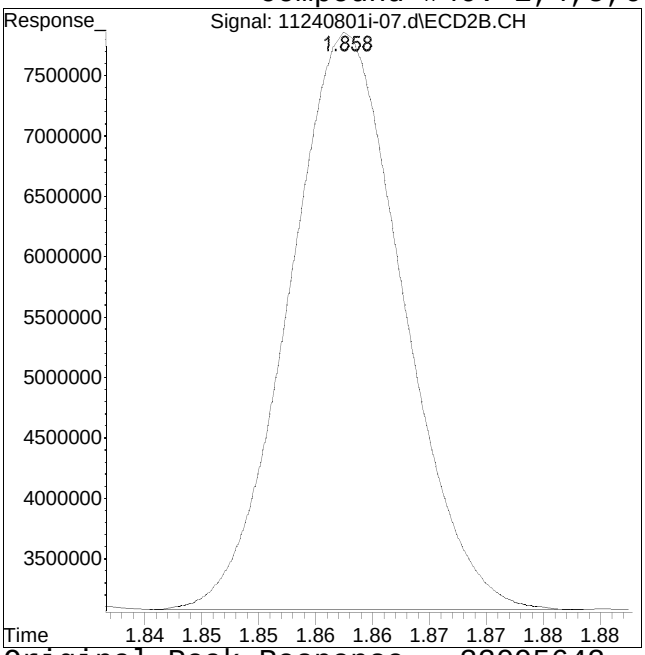


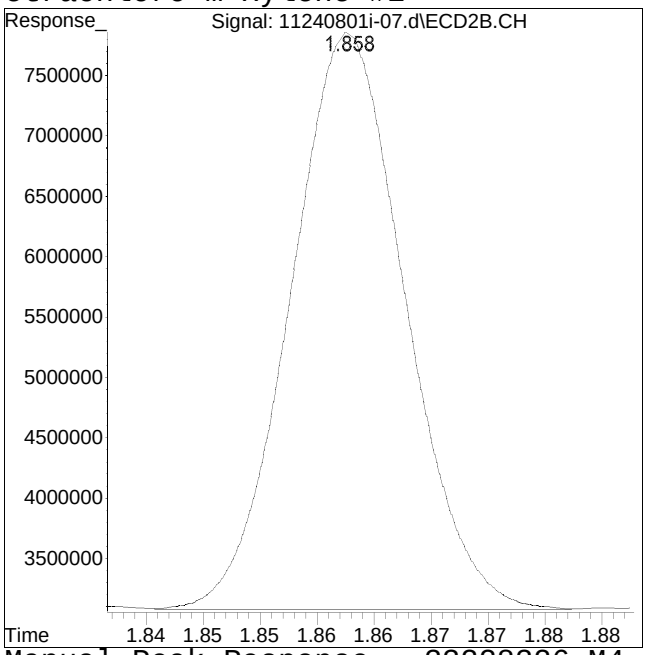
Original Peak Response = 39717971 Manual Peak Response = 38521121 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



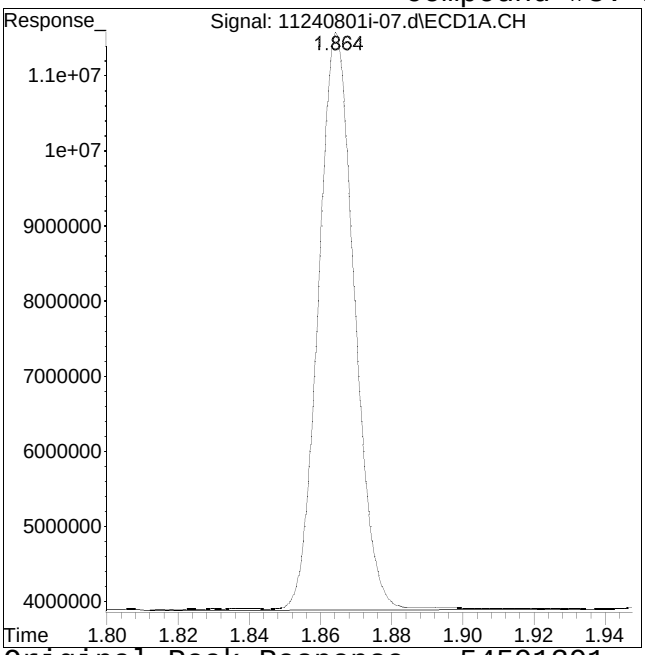


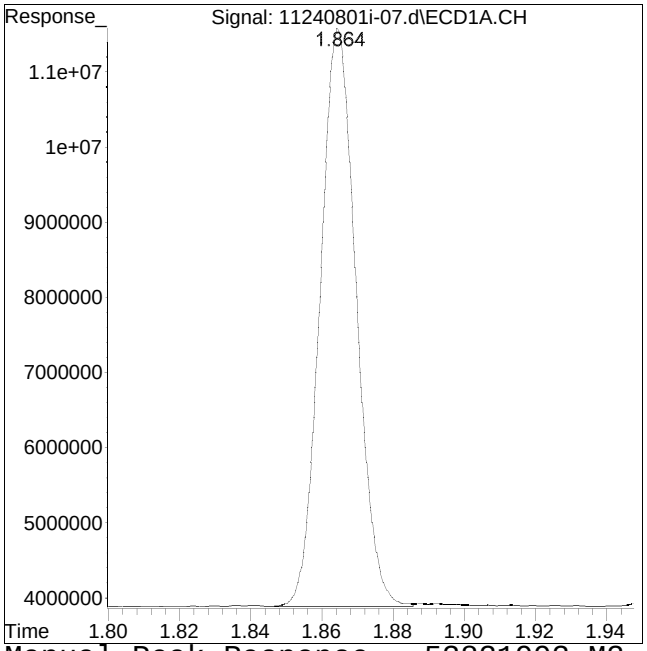
Original Peak Response = 33095642 Manual Peak Response = 33228326 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #3: Hexachlorobenzene



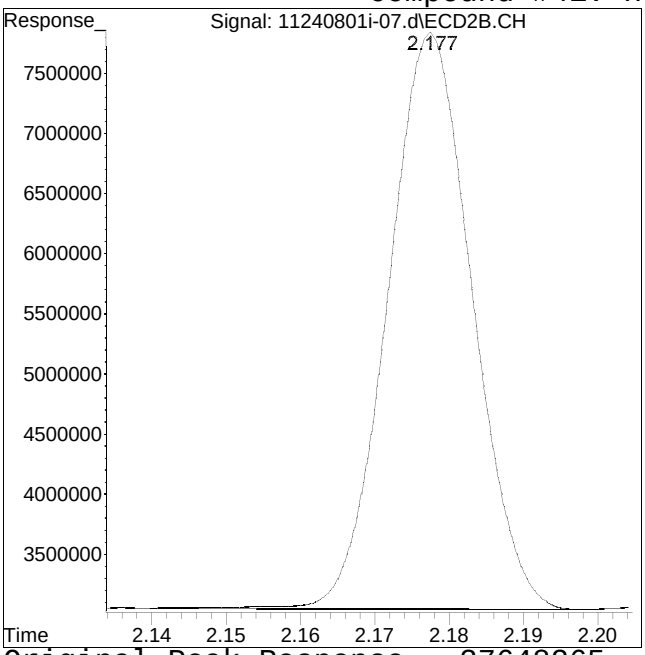


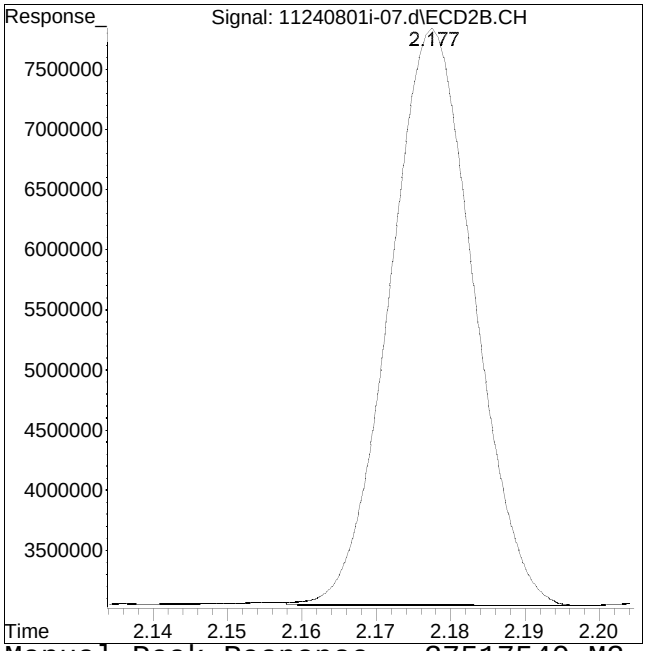
Original Peak Response = 54591391 Manual Peak Response = 53831993 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #41: Hexachlorobenzene #2



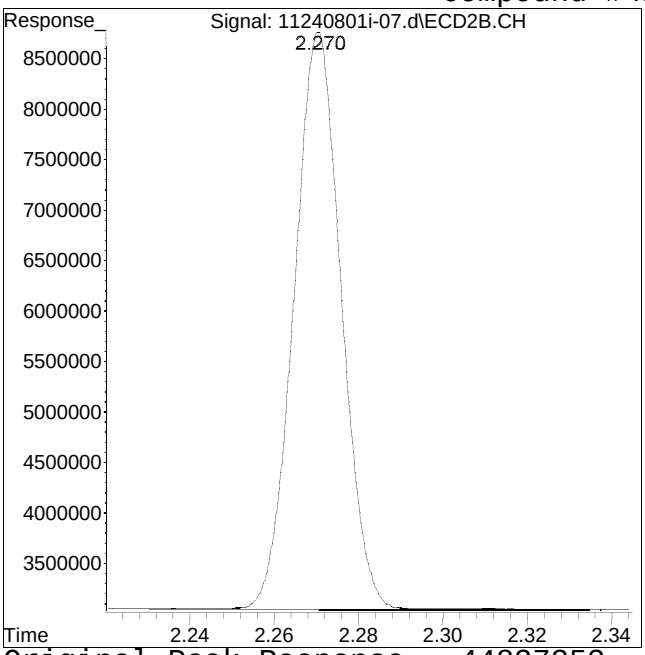


Original Peak Response = 37648265 Manual Peak Response = 37517540 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

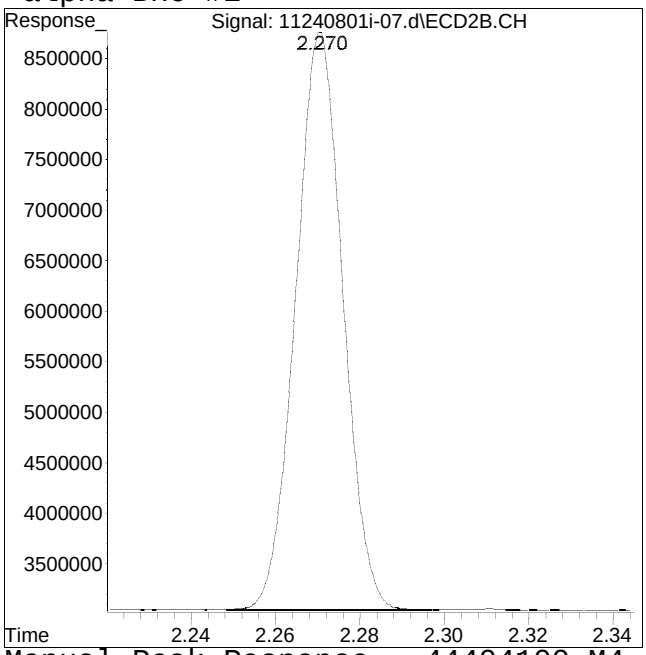
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0 Quant Date : 8/2/2024 10:53 am

Compound #42: alpha-BHC #2



Original Peak Response = 44837253



Manual Peak Response = 44404100 M4

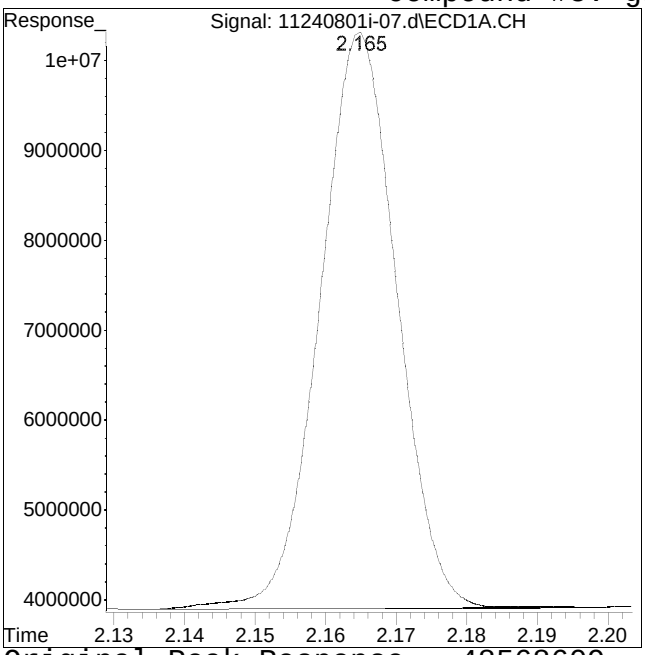
M4 = Poor automated baseline construction.

Manual Integration Report

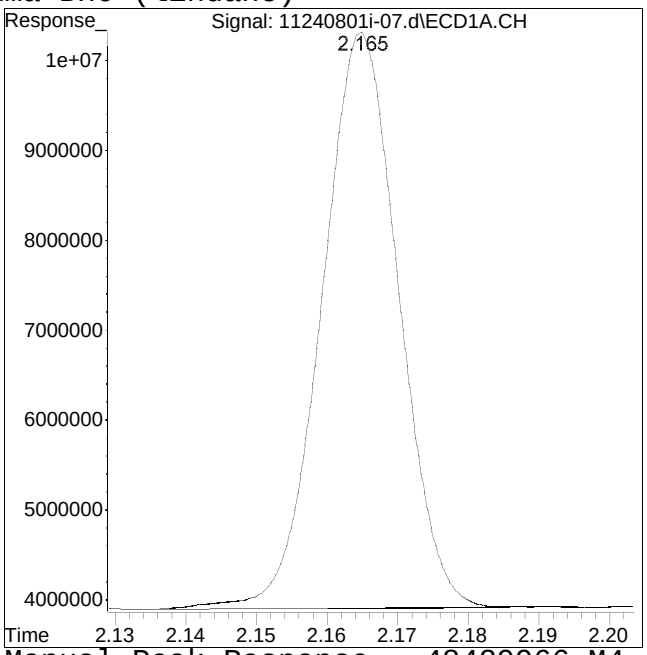
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 48568609



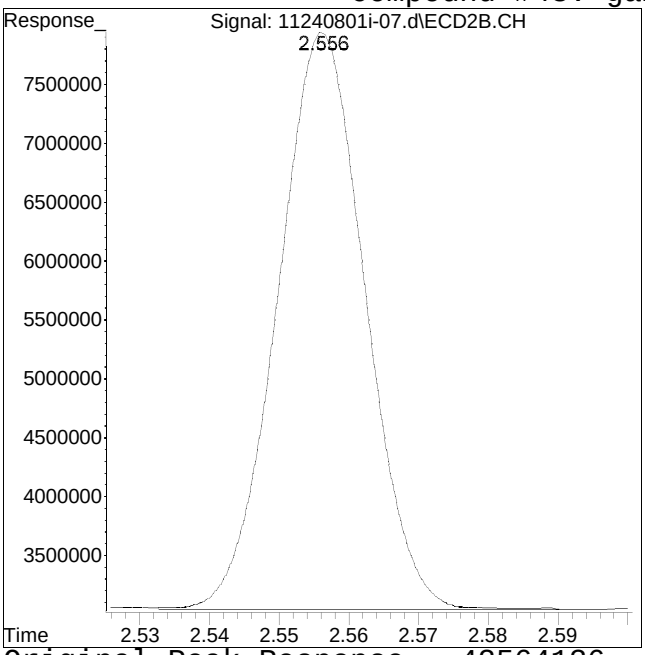
Manual Peak Response = 48429966 M4

M4 = Poor automated baseline construction.

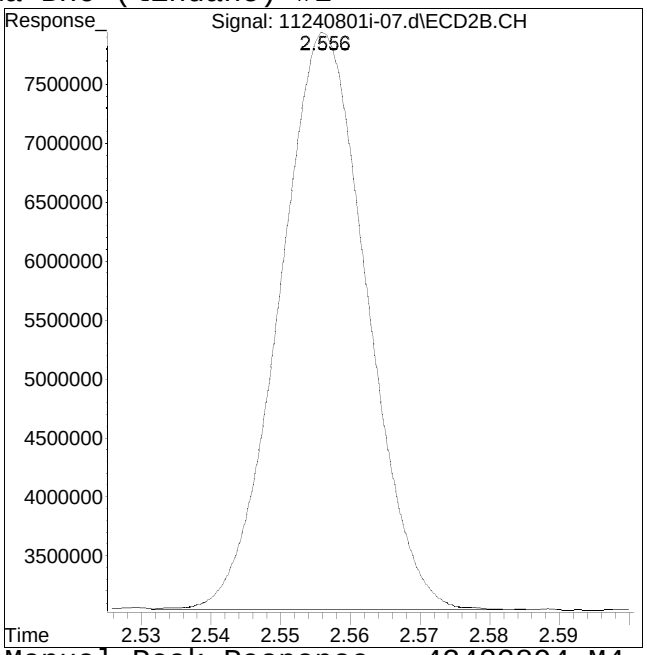
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 42564136



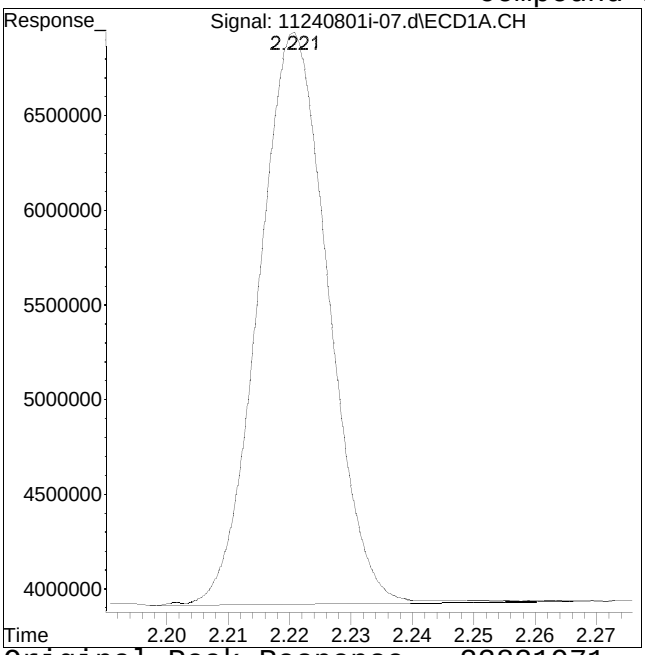
Manual Peak Response = 42423894 M4

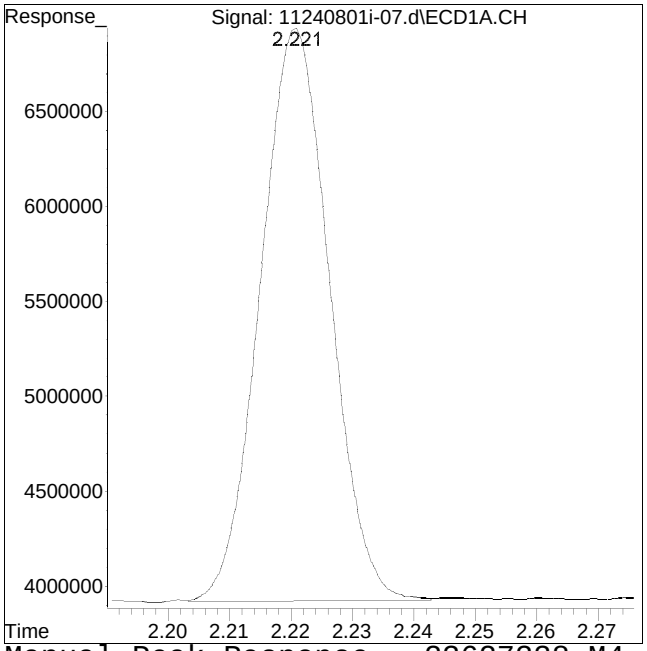
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #6: beta-BHC





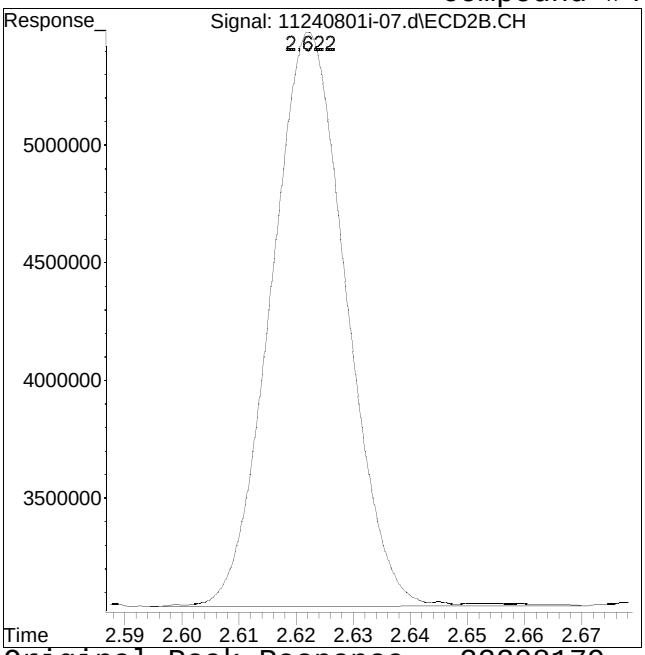
Original Peak Response = 23821971 Manual Peak Response = 23627338 M4
M4 = Poor automated baseline construction.

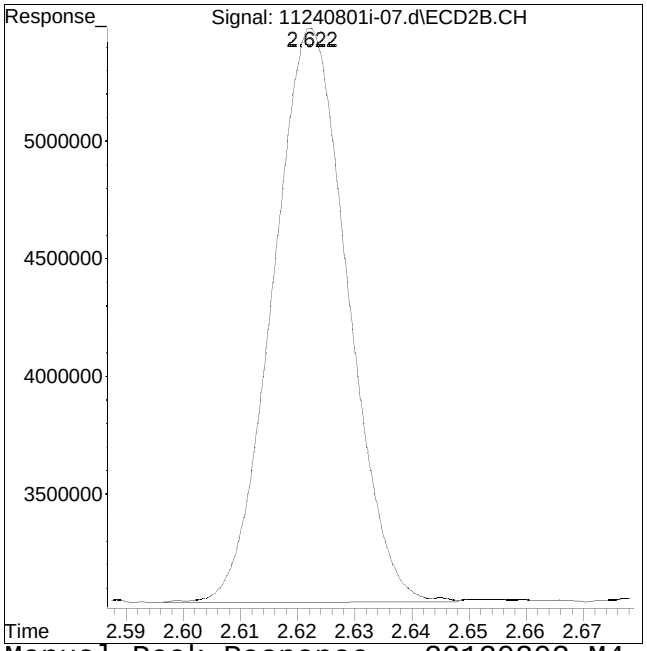
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #44: beta-BHC #2





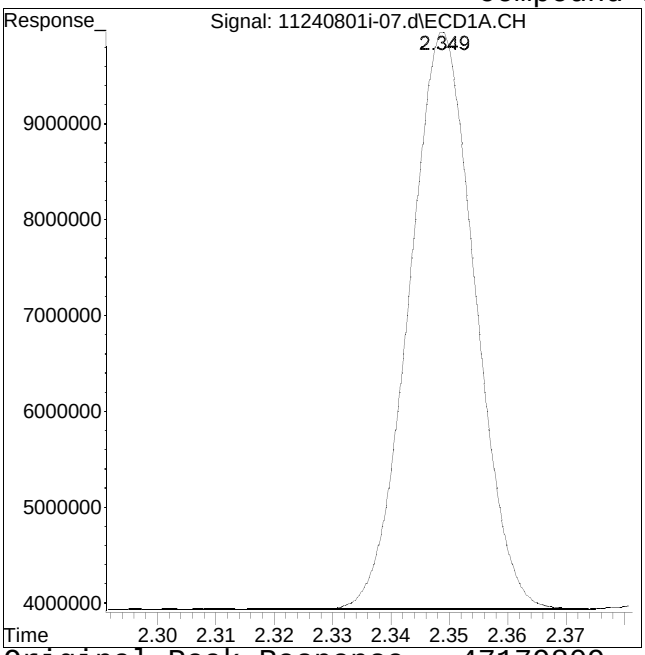
Original Peak Response = 22208179 Manual Peak Response = 22130202 M4
M4 = Poor automated baseline construction.

Manual Integration Report

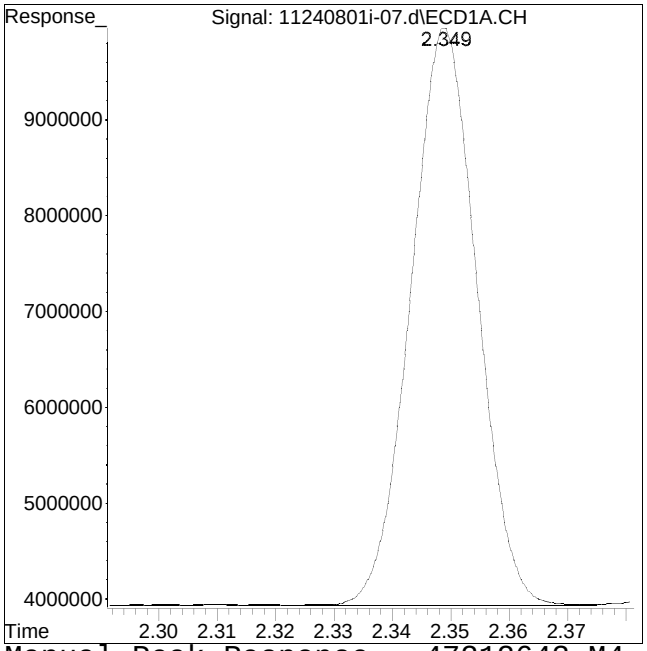
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #7: delta-BHC



Original Peak Response = 47179809



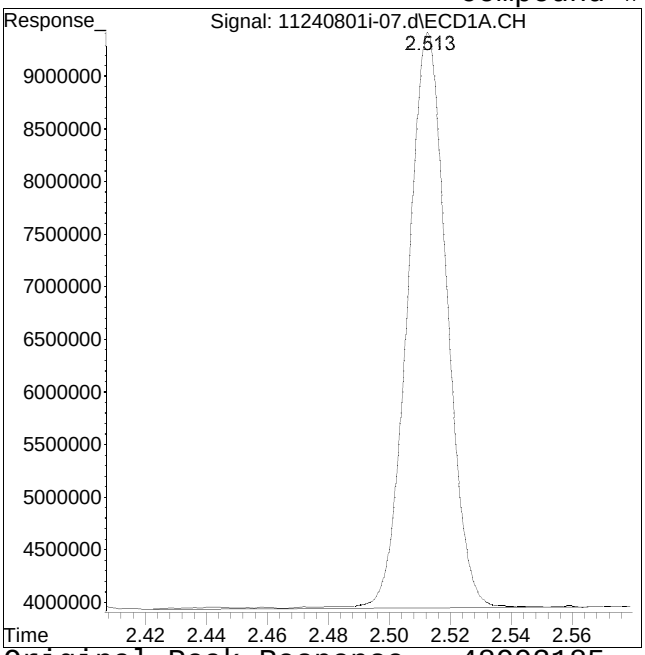
Manual Peak Response = 47212643 M4

M4 = Poor automated baseline construction.

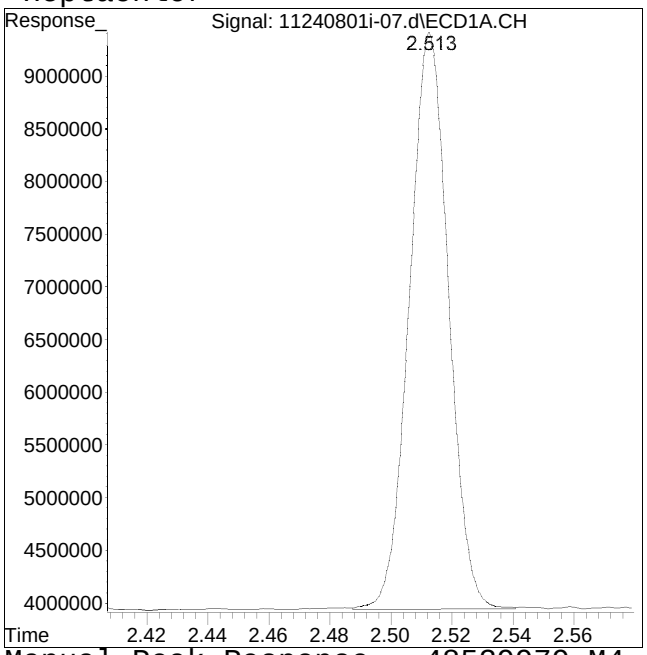
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #8: Heptachlor



Original Peak Response = 48993185



Manual Peak Response = 48539979 M4

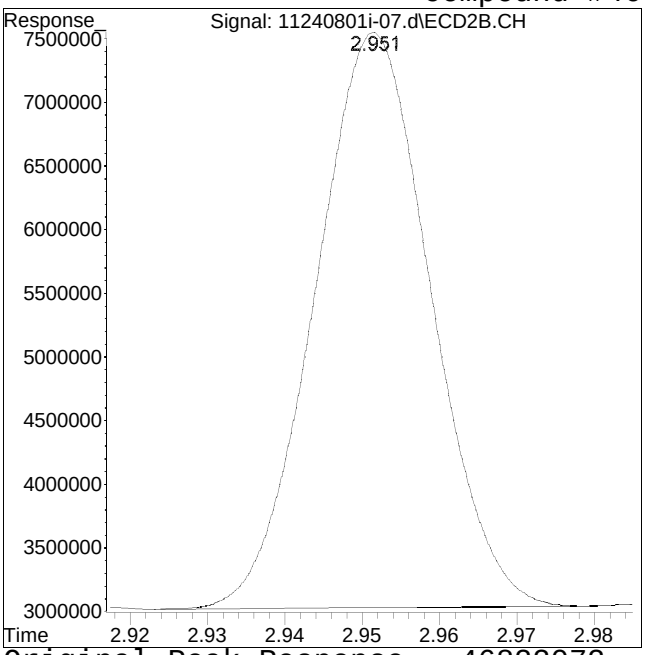
M4 = Poor automated baseline construction.

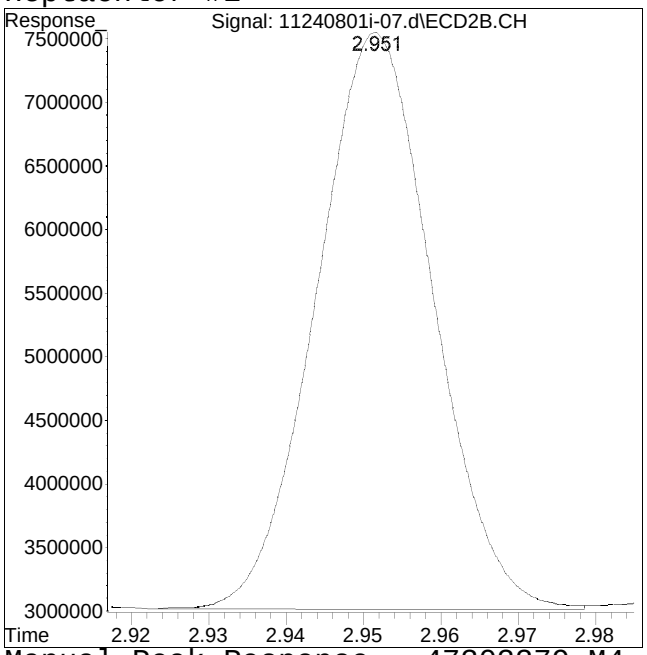
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #46: Heptachlor #2





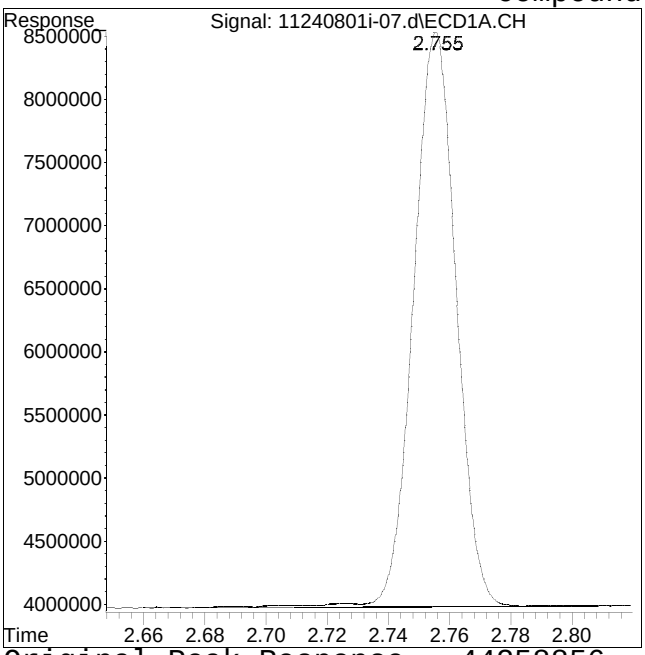
Original Peak Response = 46822072 Manual Peak Response = 47303379 M4
M4 = Poor automated baseline construction.

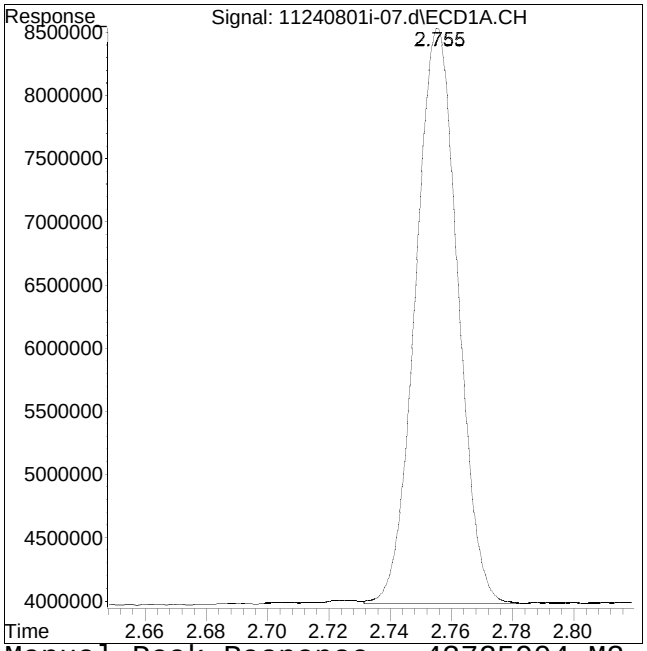
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #9: Aldrin





Original Peak Response = 44258856 Manual Peak Response = 43725904 M3

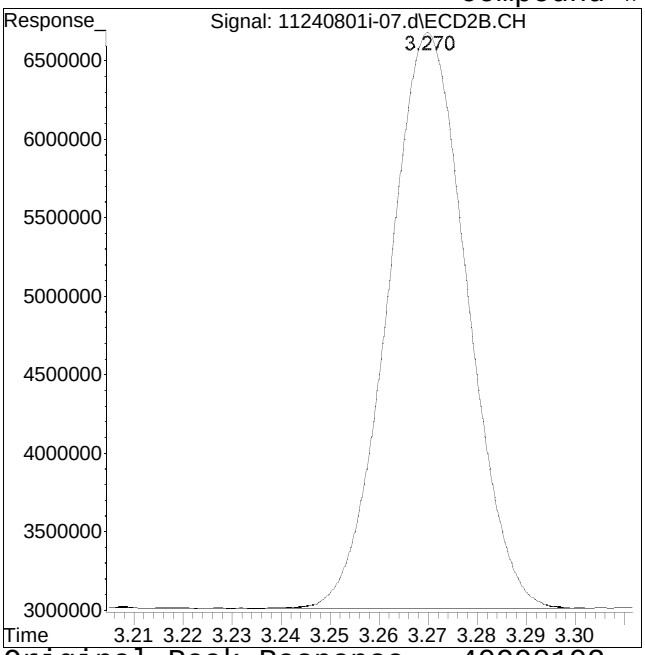
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

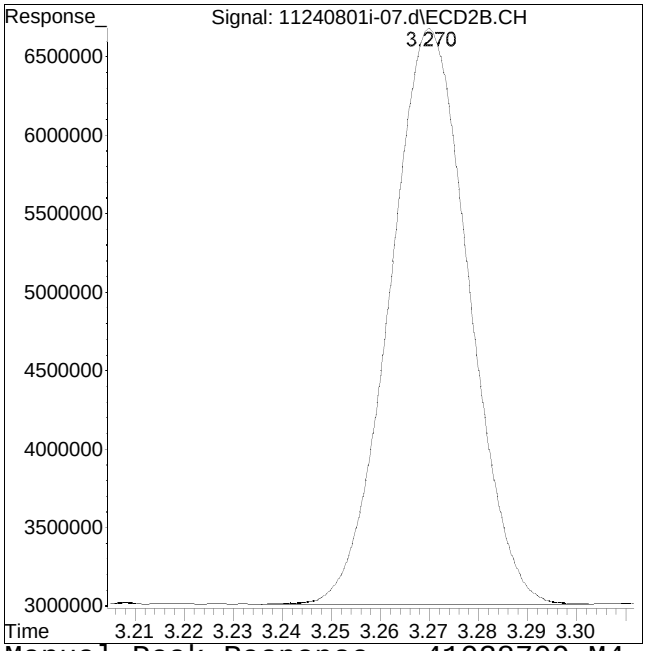
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #47: Aldrin #2



Original Peak Response = 40990192



Manual Peak Response = 41038709 M4

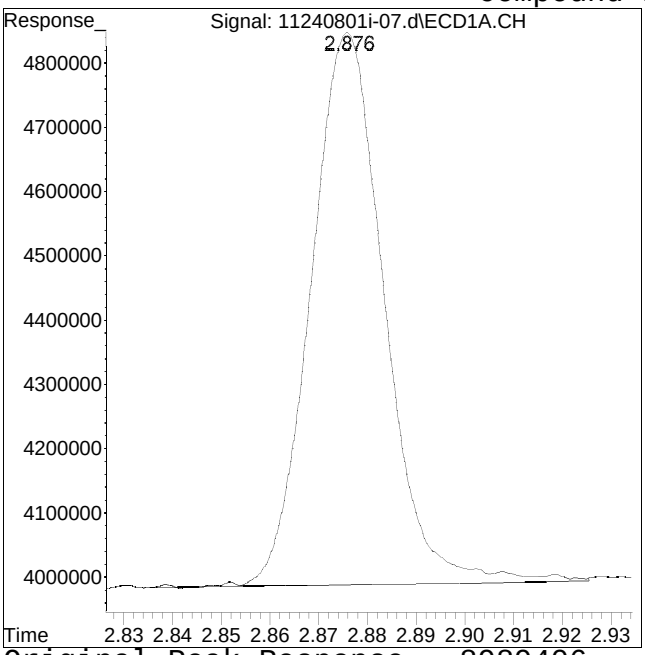
M4 = Poor automated baseline construction.

Manual Integration Report

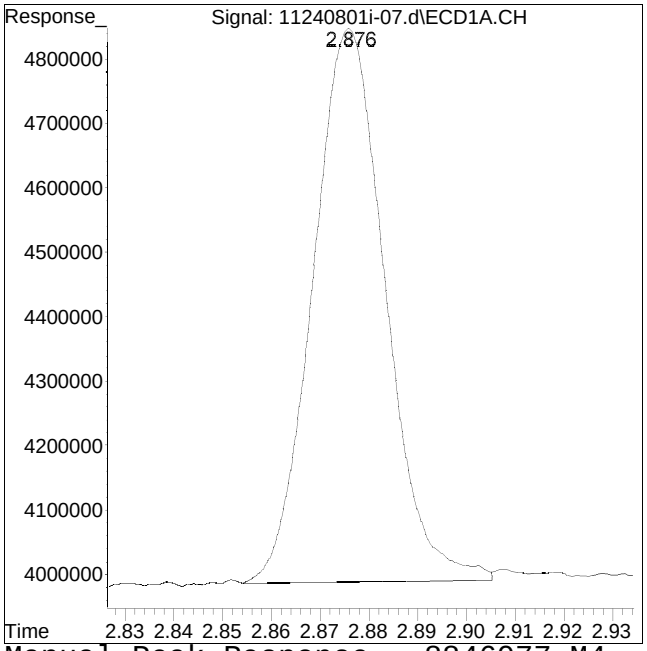
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #10: Alachlor



Original Peak Response = 8989406



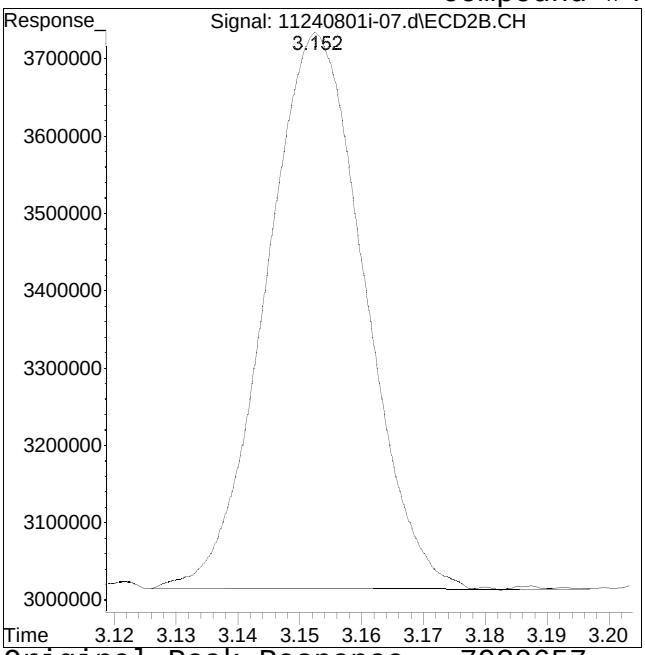
Manual Peak Response = 8846077 M4

M4 = Poor automated baseline construction.

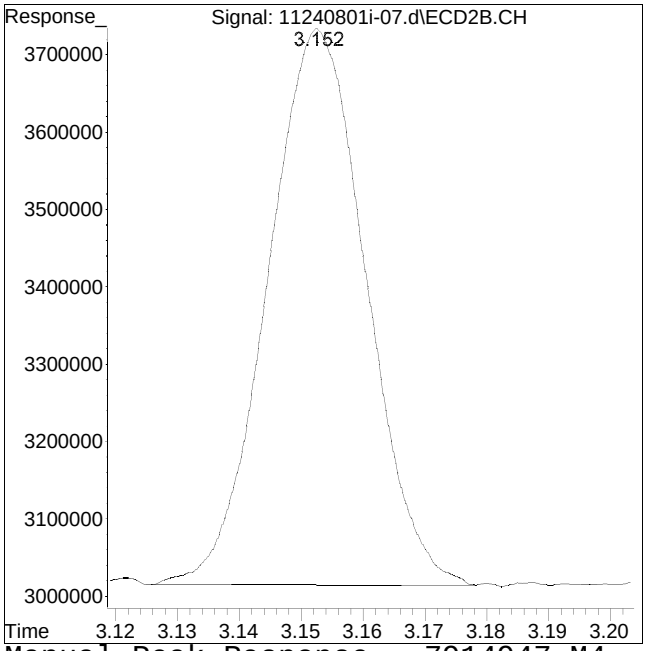
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #48: Alachlor #2



Original Peak Response = 7930657



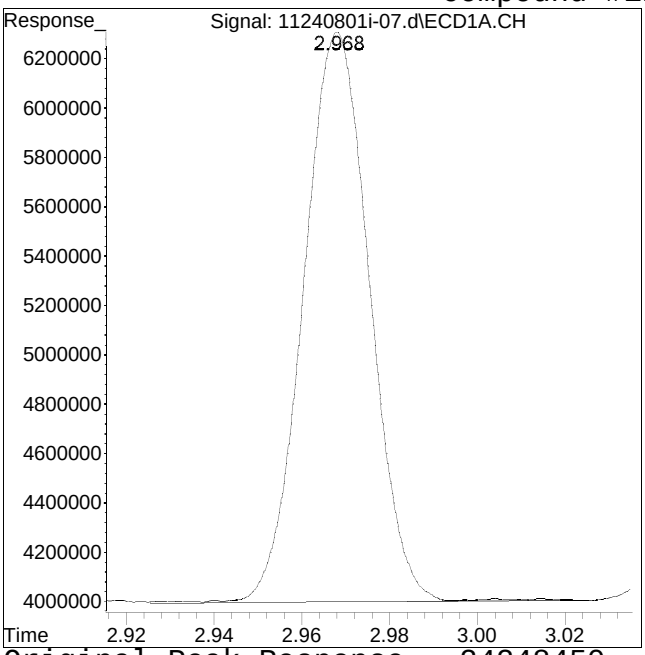
Manual Peak Response = 7914947 M4

M4 = Poor automated baseline construction.

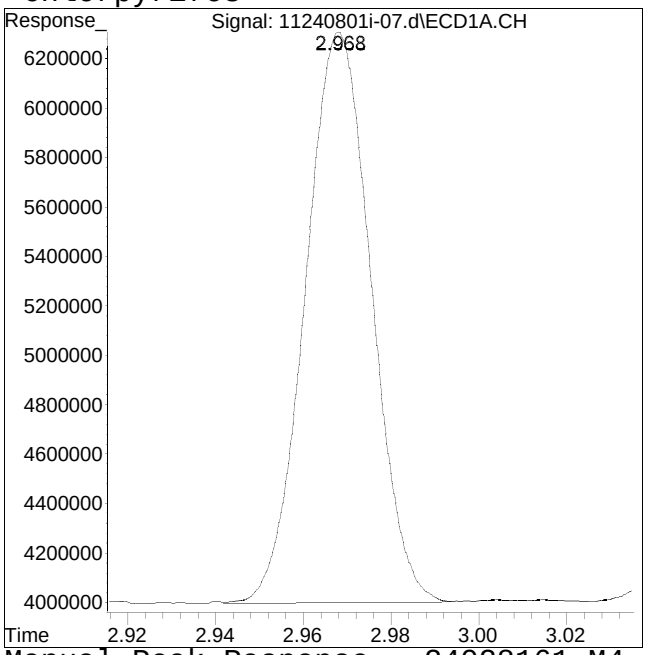
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #11: Chlorpyrifos



Original Peak Response = 24248450



Manual Peak Response = 24028161 M4

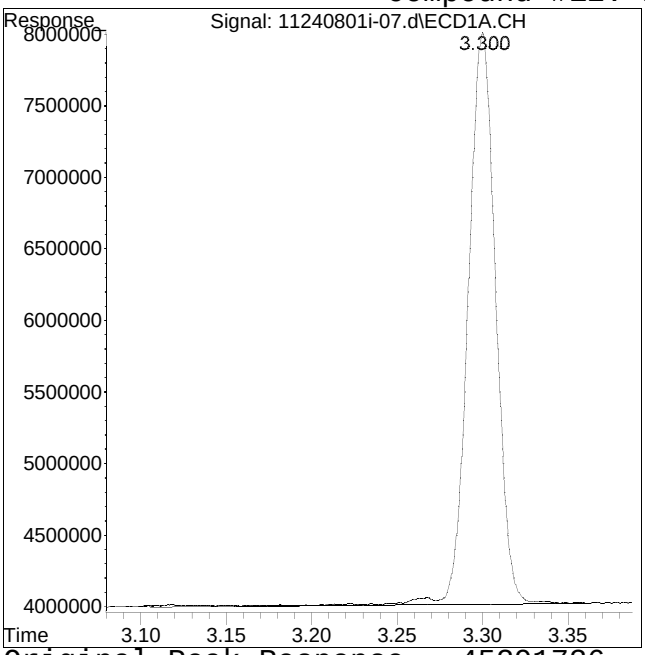
M4 = Poor automated baseline construction.

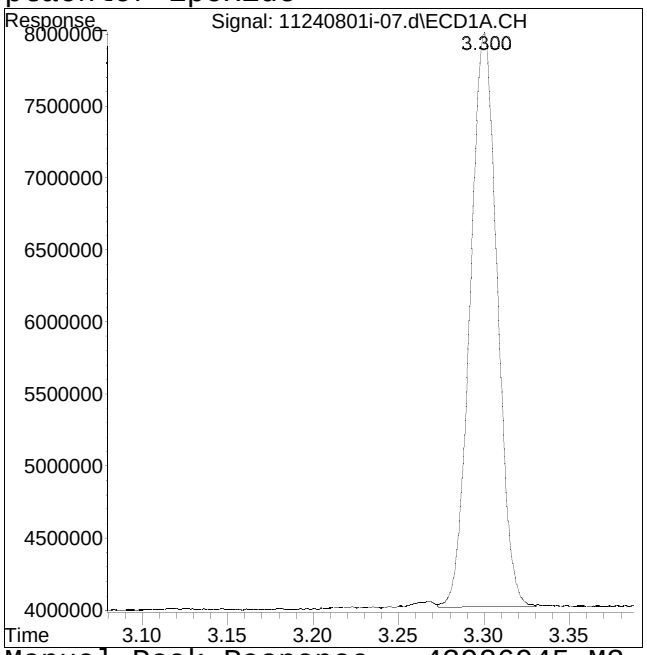
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 45291736 Manual Peak Response = 43926945 M3

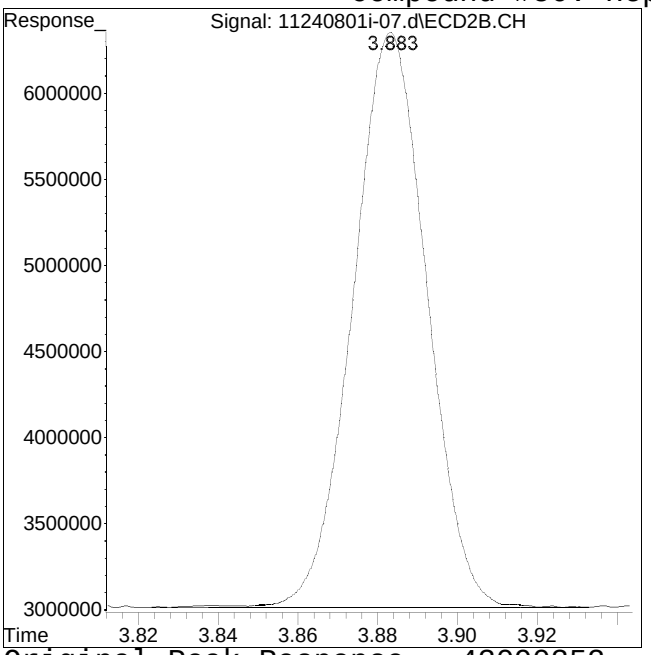
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

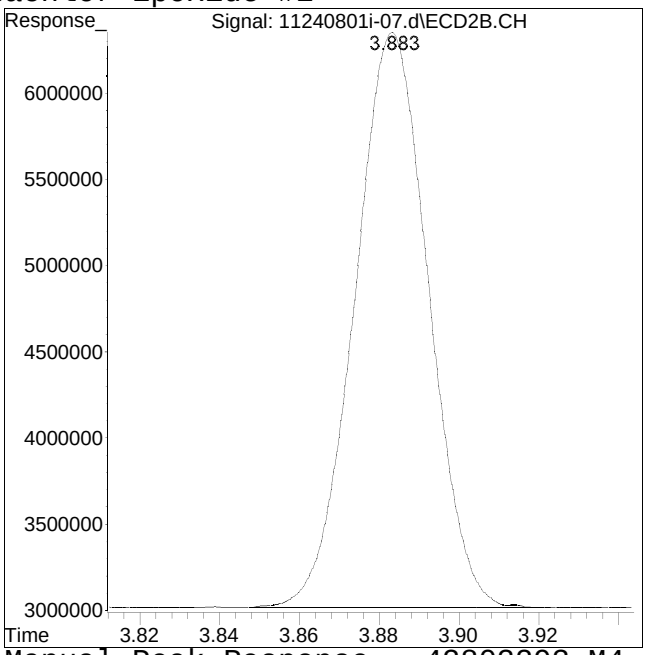
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #50: Heptachlor Epoxide #2



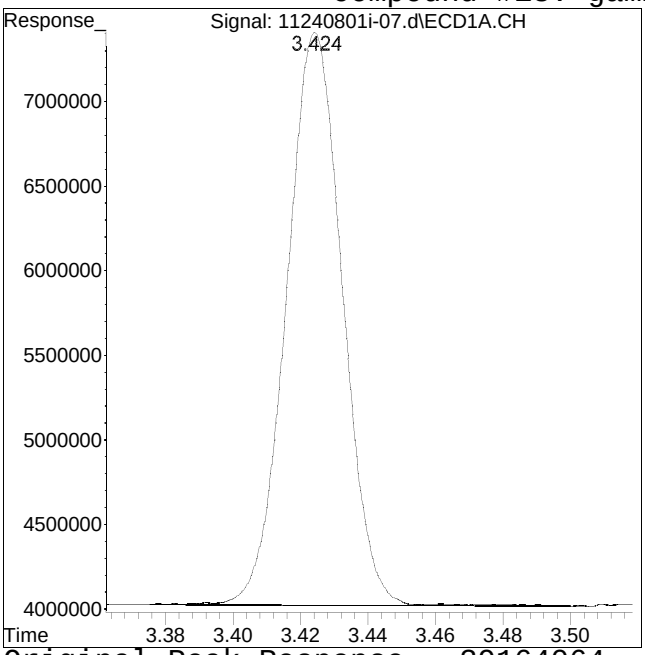


Original Peak Response = 43090352 Manual Peak Response = 42803293 M4
M4 = Poor automated baseline construction.

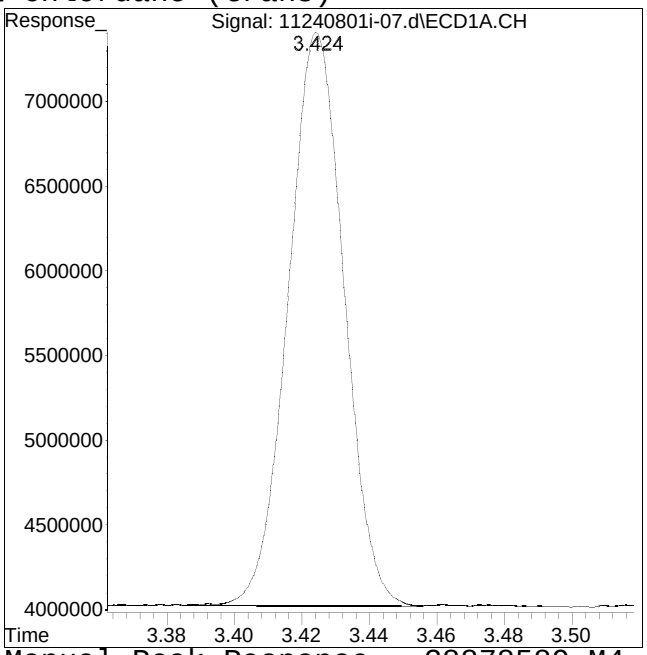
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 39164064



Manual Peak Response = 38878589 M4

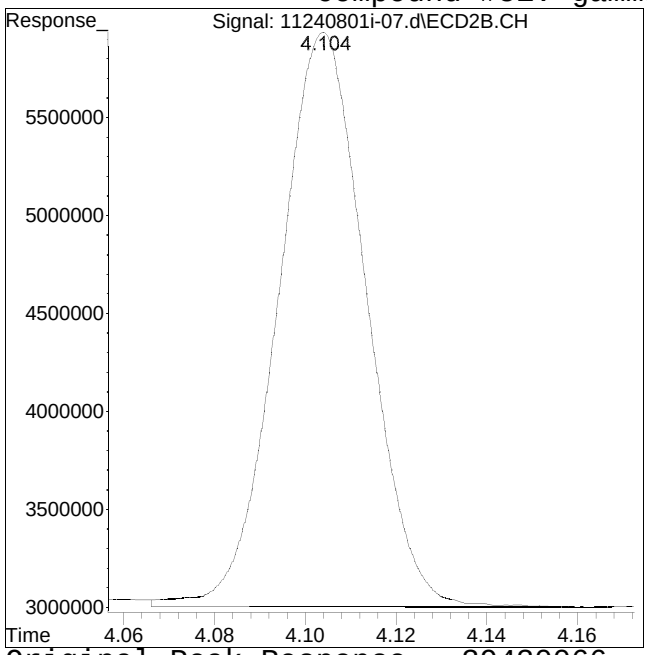
M4 = Poor automated baseline construction.

Manual Integration Report

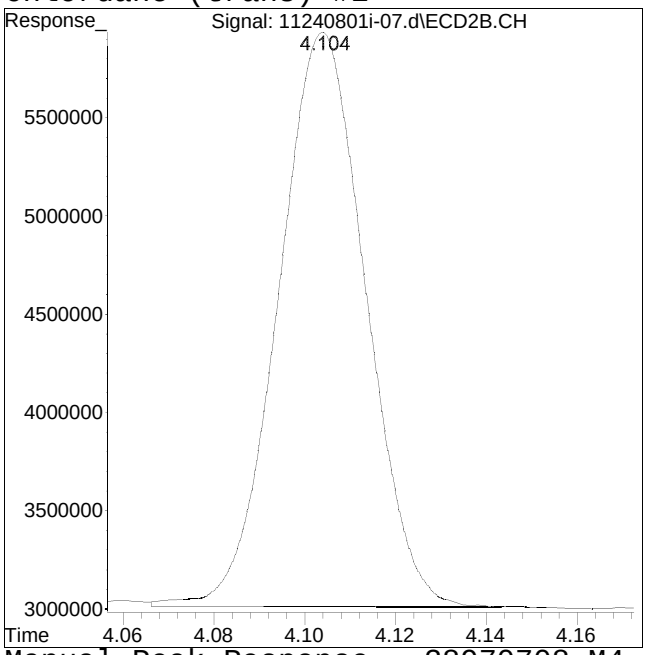
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 39430066



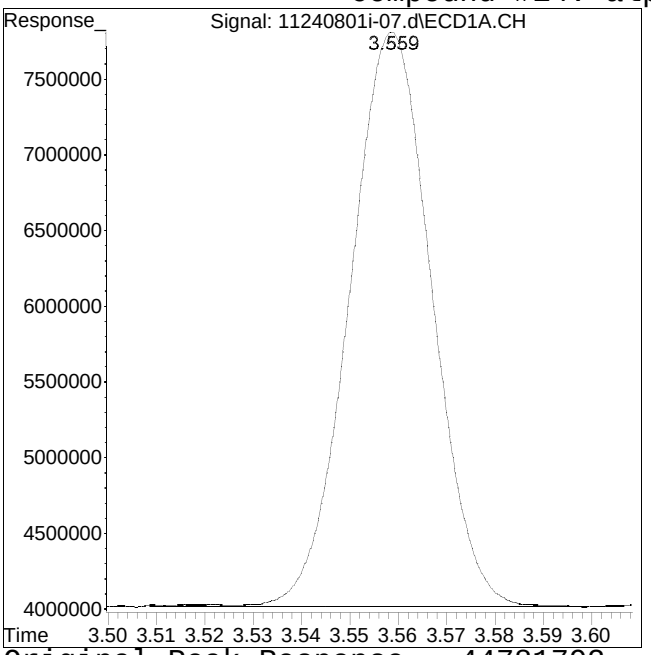
Manual Peak Response = 38970708 M4

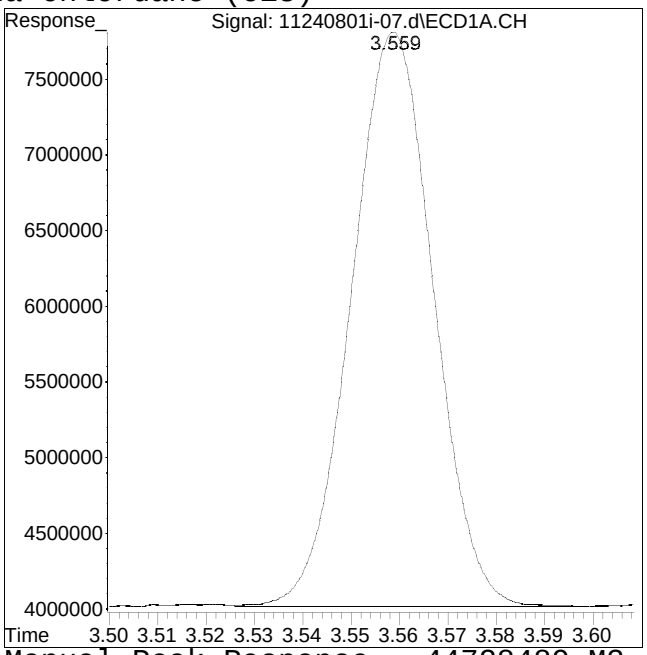
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #14: alpha-Chlordane (cis)



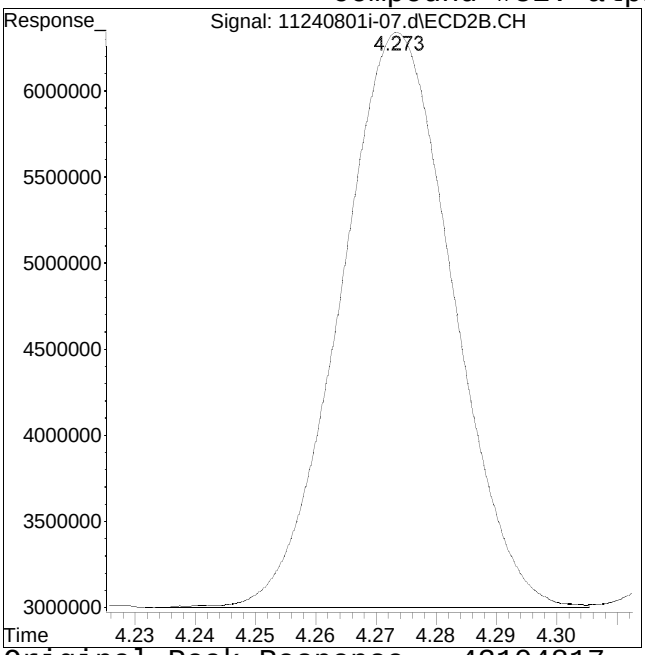


Original Peak Response = 44781792 Manual Peak Response = 44728489 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

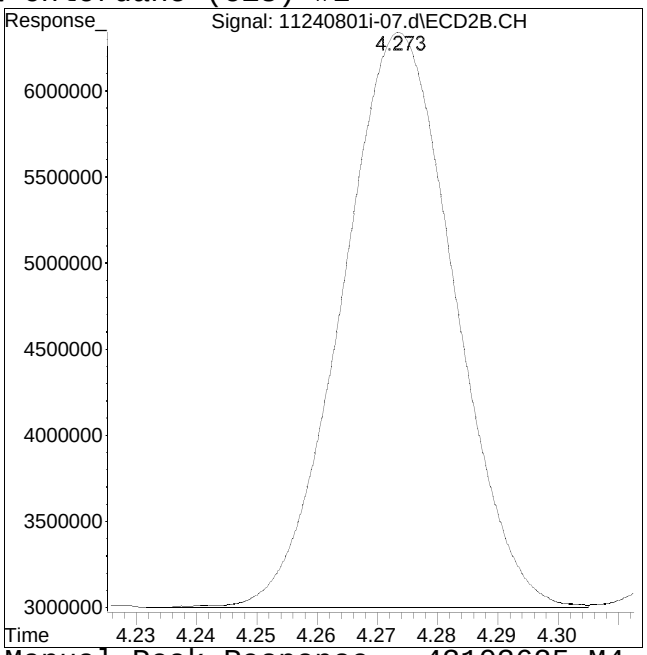
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 43104817



Manual Peak Response = 43103625 M4

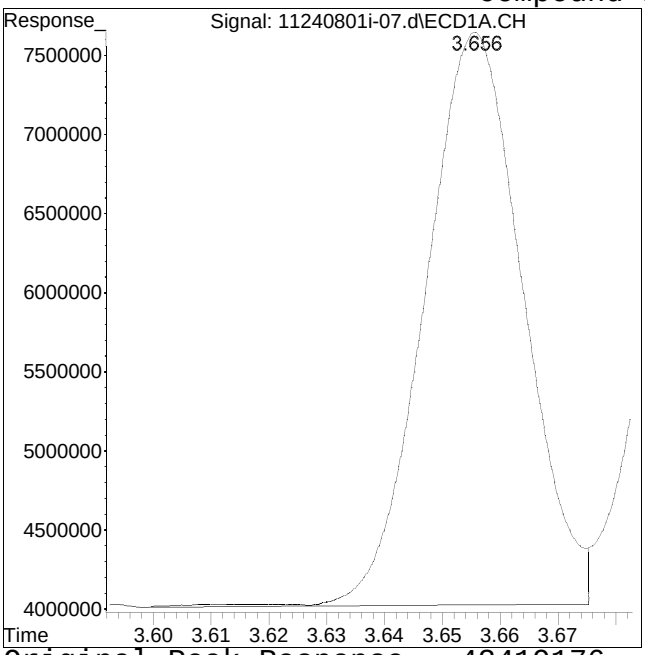
M4 = Poor automated baseline construction.

Manual Integration Report

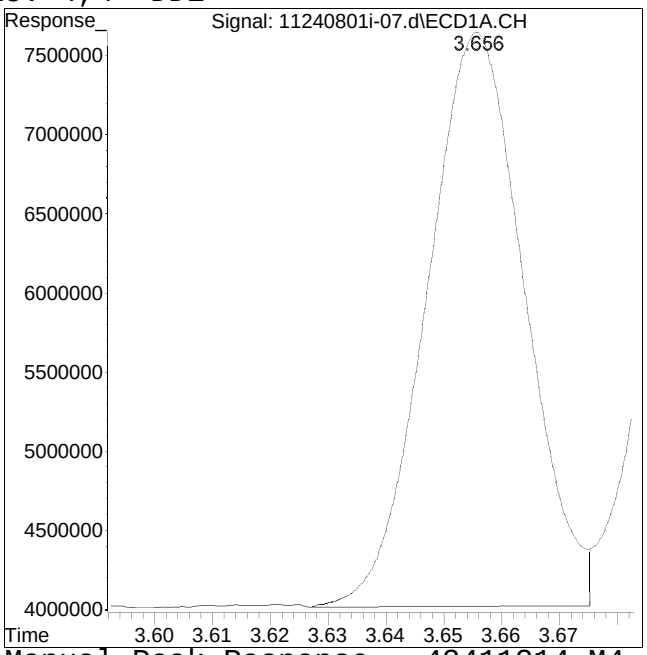
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #15: 4,4'-DDE



Original Peak Response = 42419176



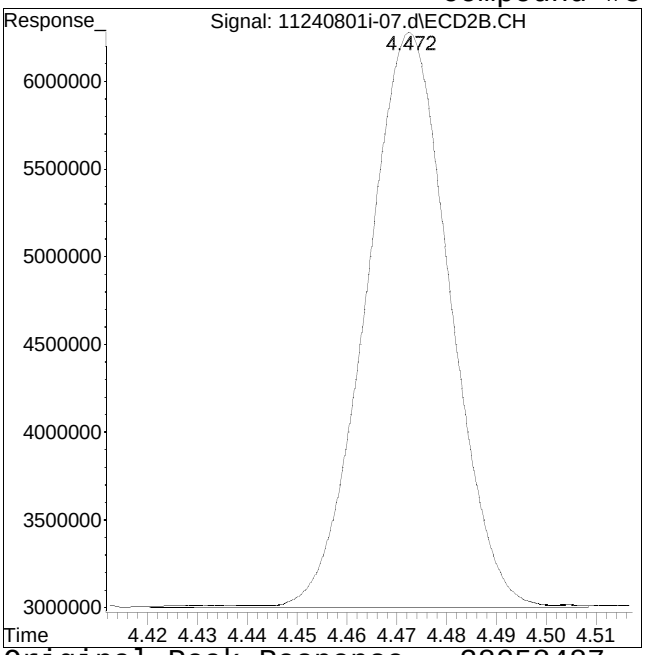
Manual Peak Response = 42411214 M4

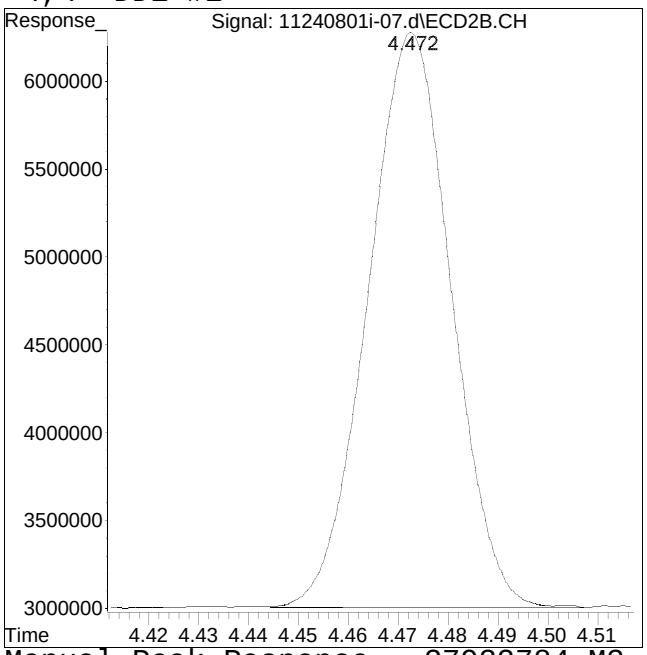
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #53: 4,4'-DDE #2





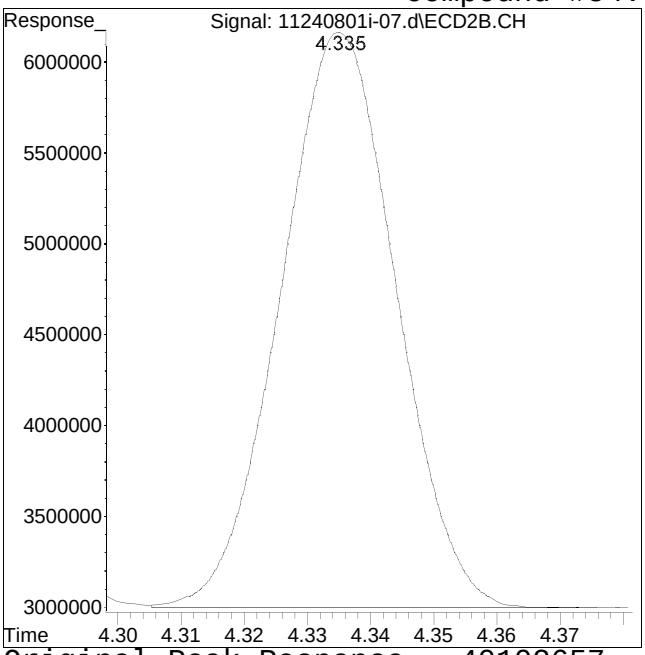
Original Peak Response = 38258487 Manual Peak Response = 37932784 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

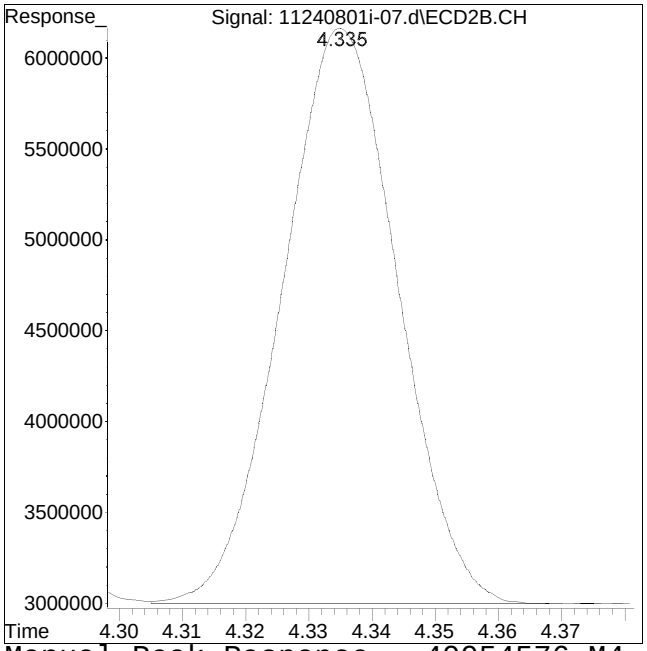
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #54: Endosulfan I #2



Original Peak Response = 40102657



Manual Peak Response = 40054576 M4

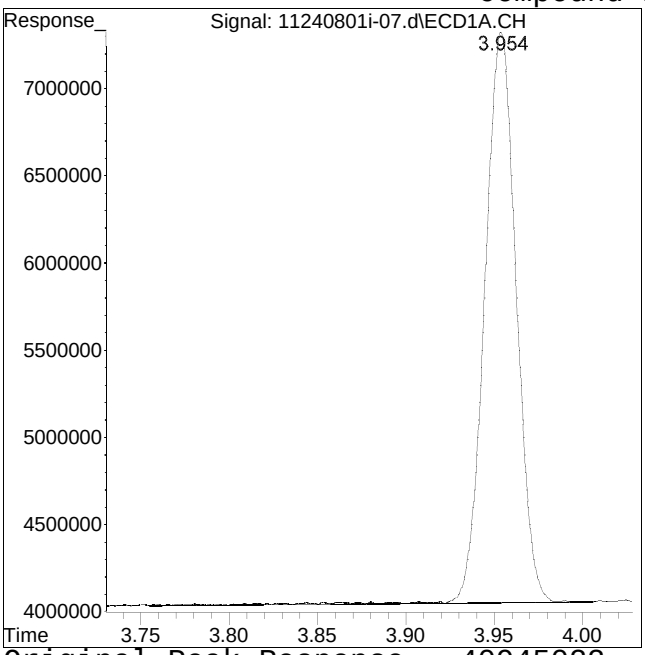
M4 = Poor automated baseline construction.

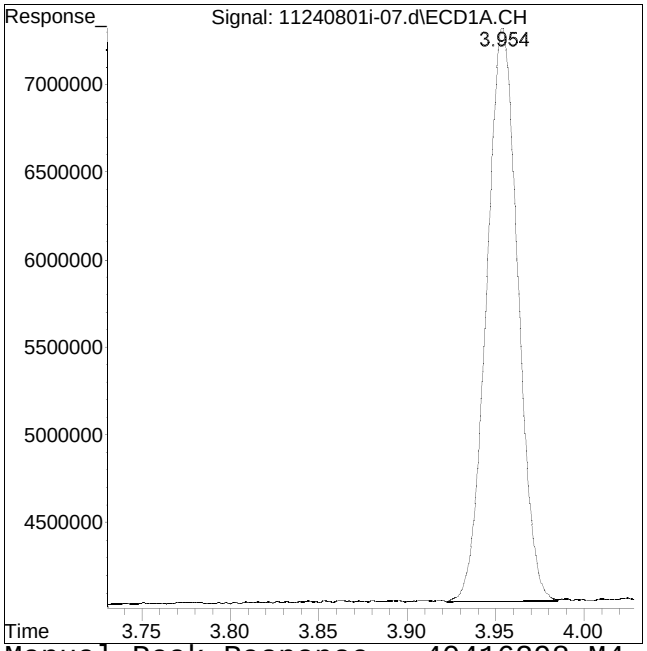
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #17: Dieldrin



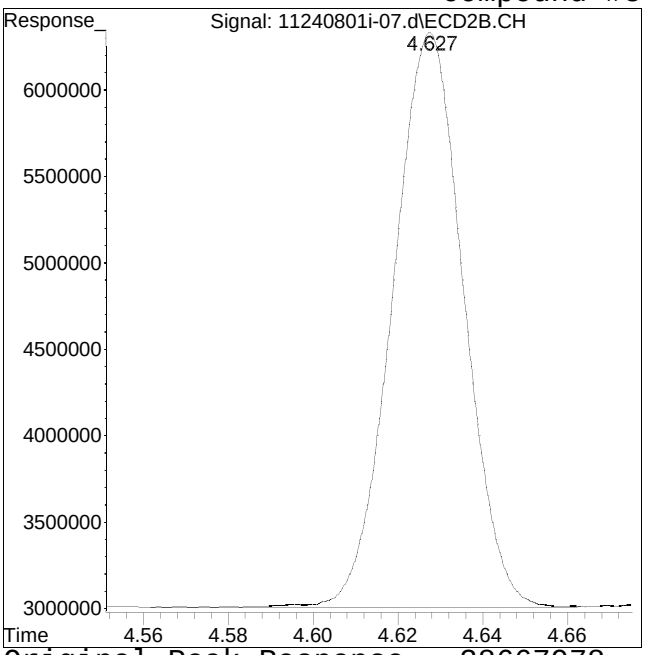


Original Peak Response = 40945022 Manual Peak Response = 40416298 M4
M4 = Poor automated baseline construction.

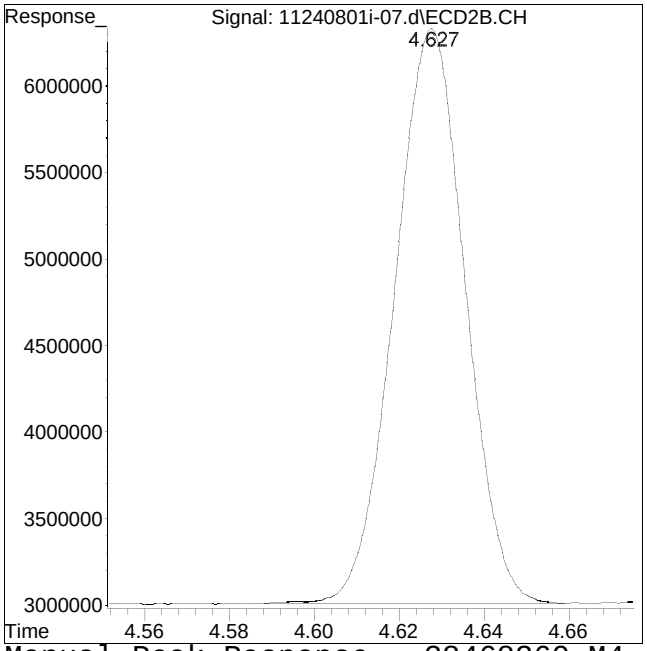
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #55: Dieldrin #2



Original Peak Response = 38667978



Manual Peak Response = 38468360 M4

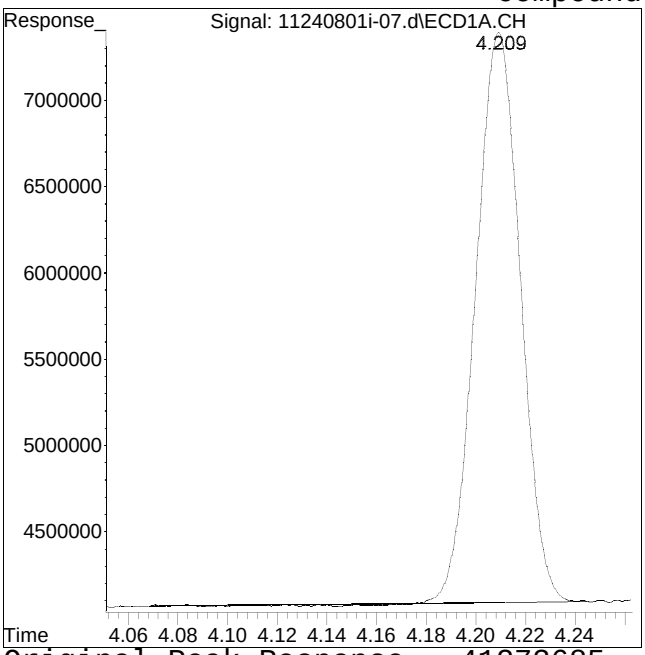
M4 = Poor automated baseline construction.

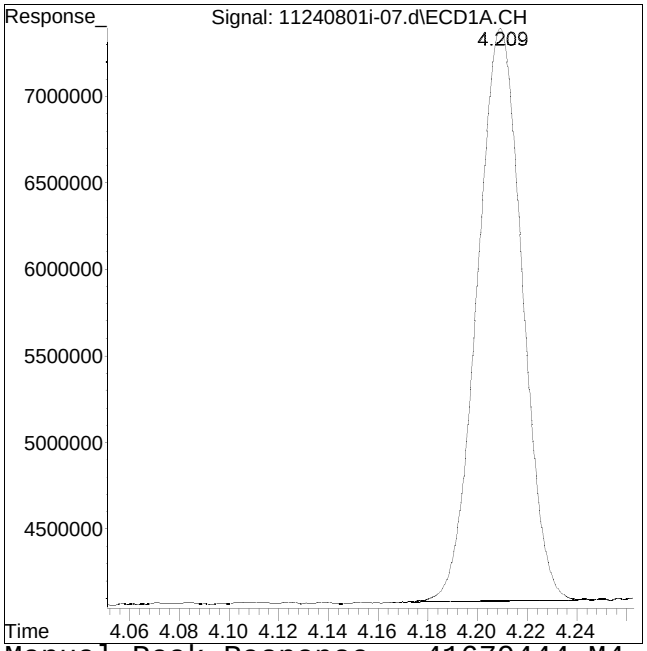
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #18: Endrin



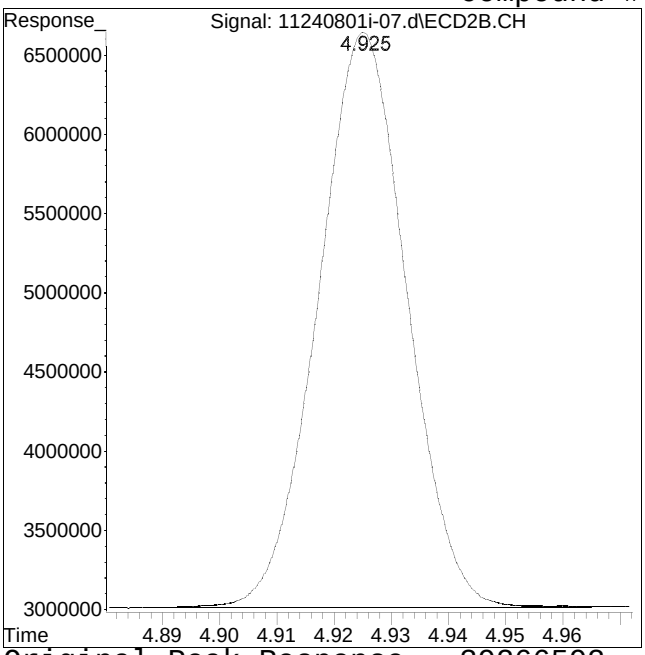


Original Peak Response = 41273685 Manual Peak Response = 41670444 M4
M4 = Poor automated baseline construction.

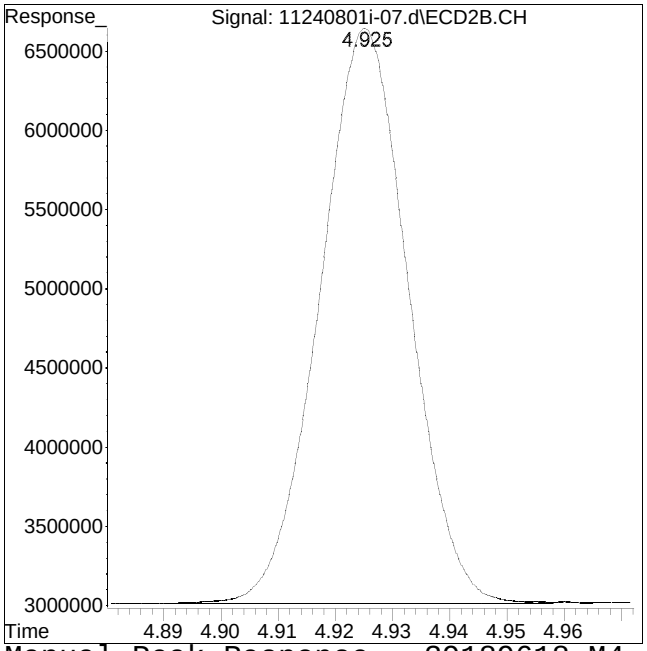
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #56: Endrin #2



Original Peak Response = 39266592



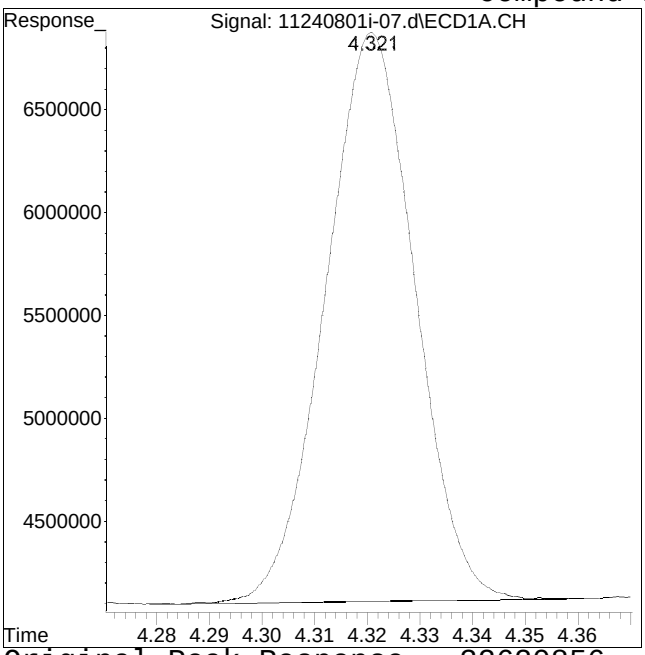
Manual Peak Response = 39189618 M4

M4 = Poor automated baseline construction.

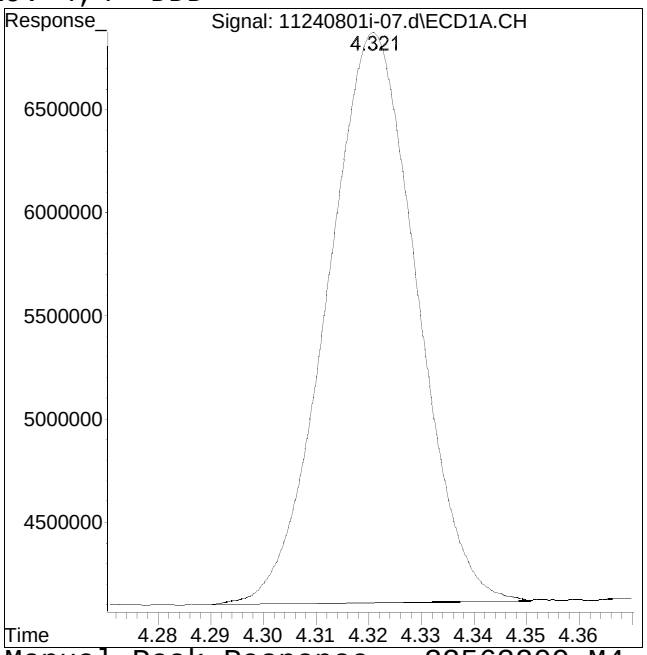
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #19: 4,4'-DDD



Original Peak Response = 32620856



Manual Peak Response = 32563209 M4

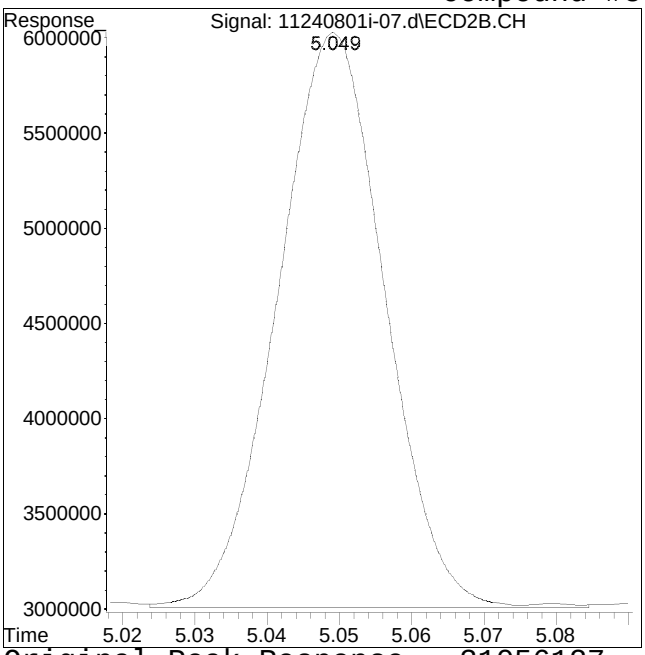
M4 = Poor automated baseline construction.

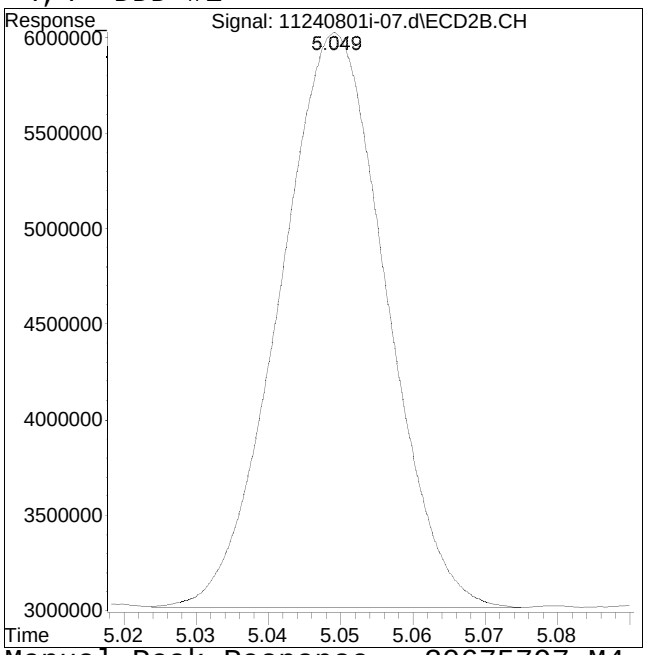
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #57: 4,4'-DDD #2





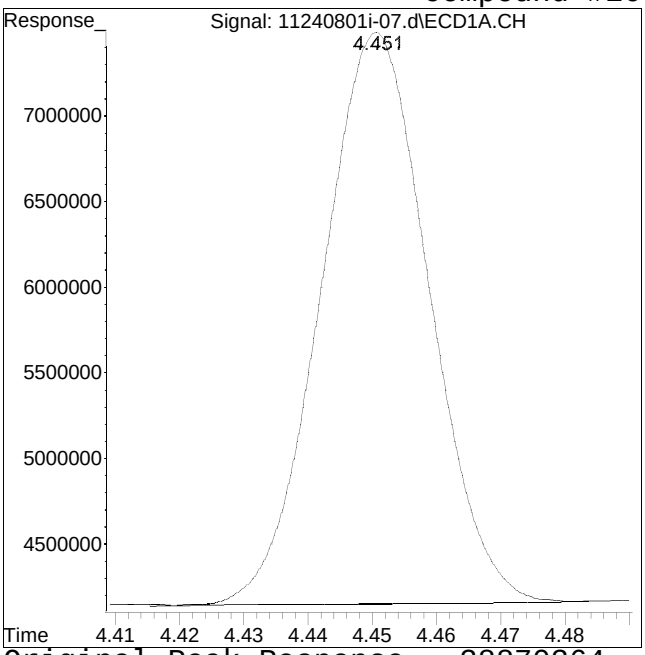
Original Peak Response = 31056127 Manual Peak Response = 30675797 M4
M4 = Poor automated baseline construction.

Manual Integration Report

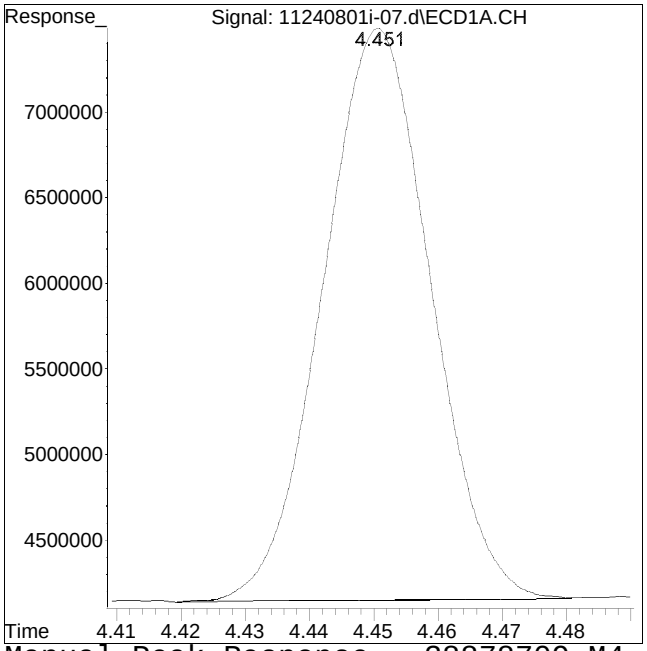
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #20: Endosulfan II



Original Peak Response = 38870364



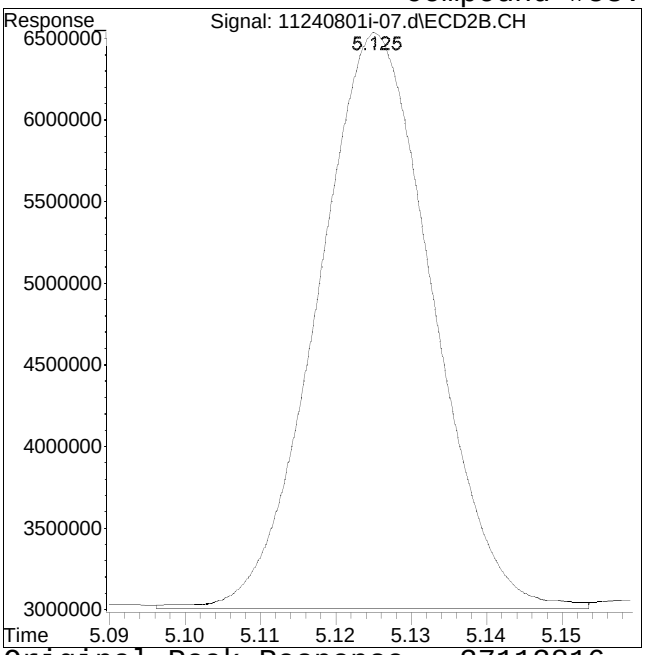
Manual Peak Response = 38878709 M4

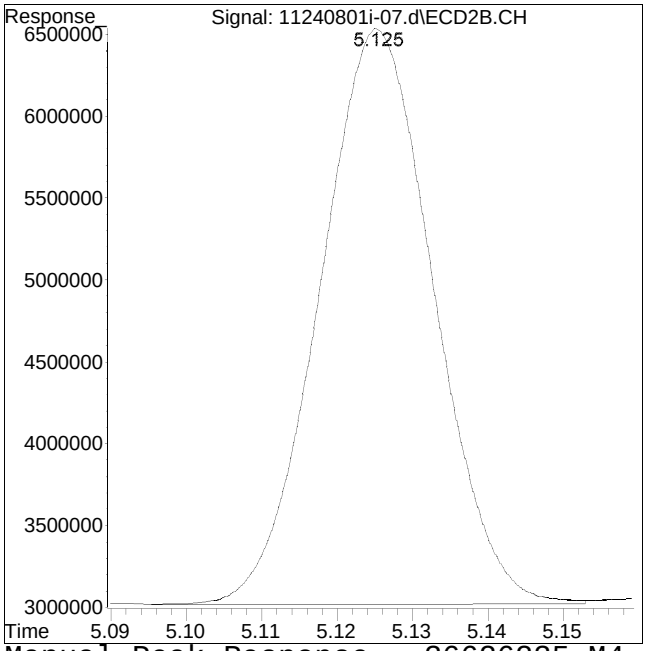
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #58: Endosulfan II #2



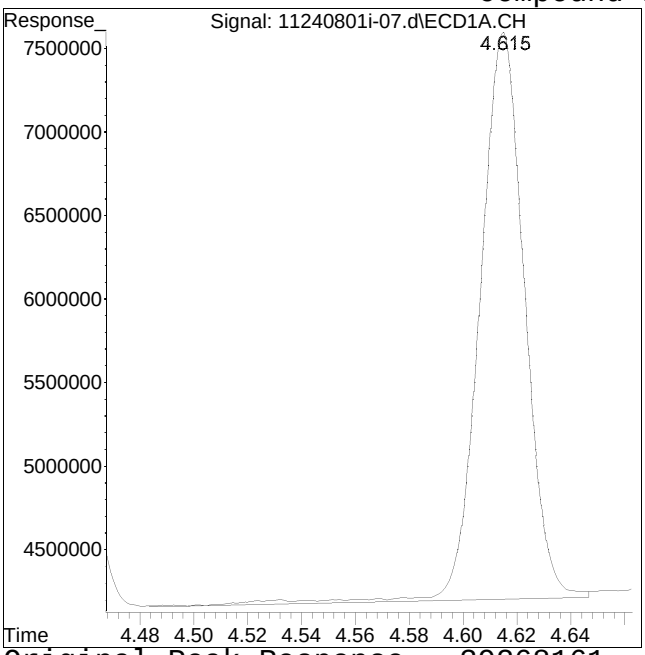


Original Peak Response = 37113816 Manual Peak Response = 36626235 M4
M4 = Poor automated baseline construction.

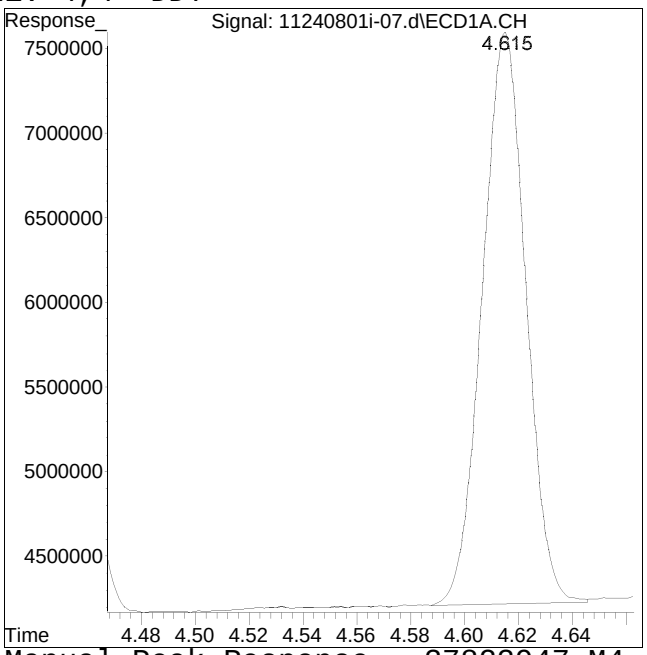
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #21: 4,4'-DDT



Original Peak Response = 39268161



Manual Peak Response = 37823947 M4

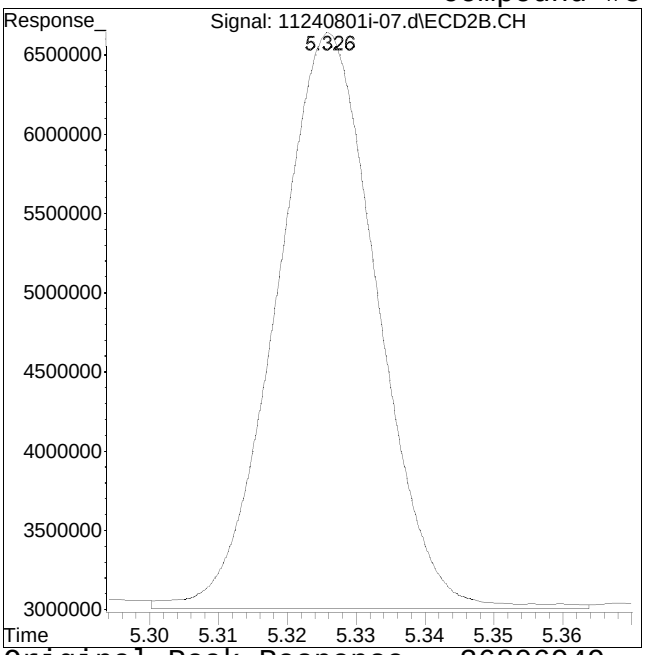
M4 = Poor automated baseline construction.

Manual Integration Report

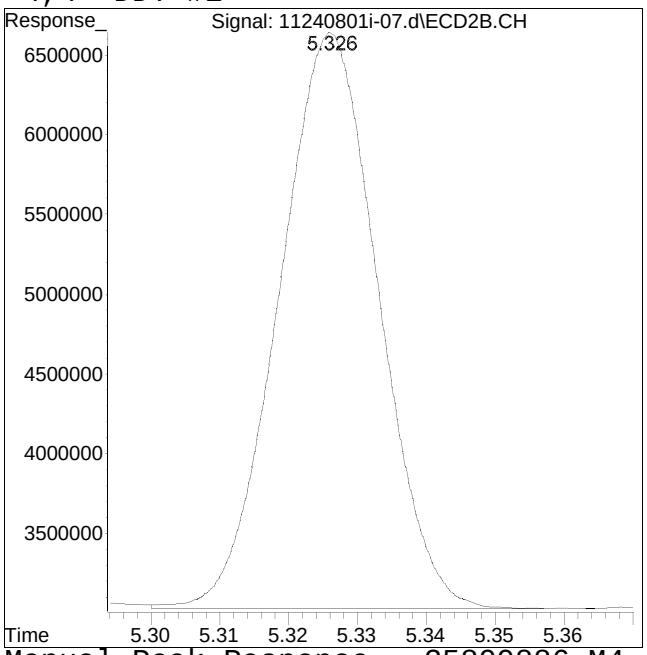
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 36806949



Manual Peak Response = 35899886 M4

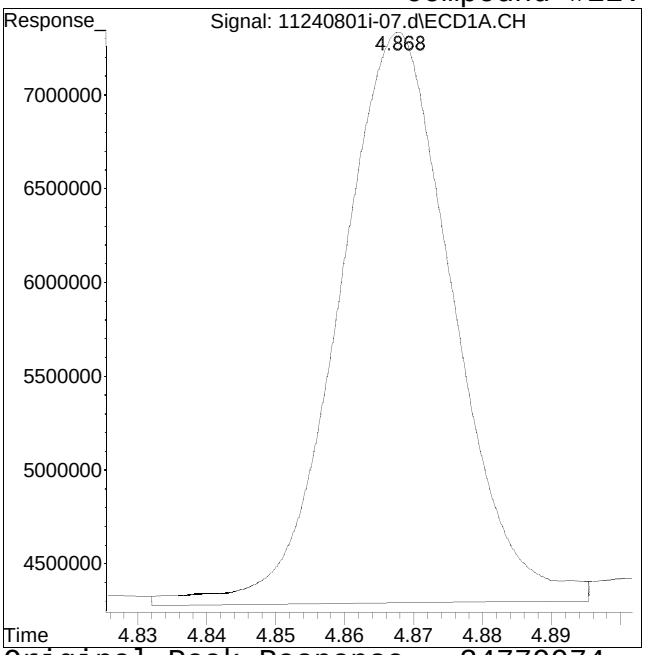
M4 = Poor automated baseline construction.

Manual Integration Report

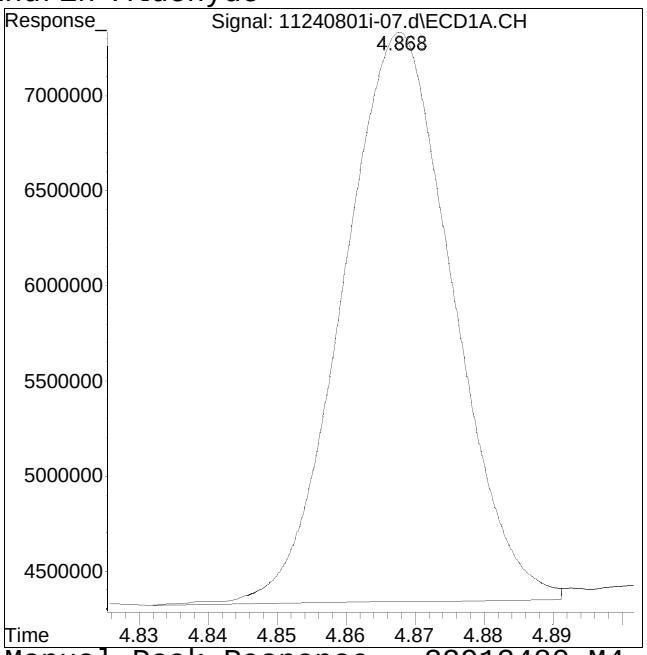
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #22: Endrin Aldehyde



Original Peak Response = 34779974



Manual Peak Response = 32912480 M4

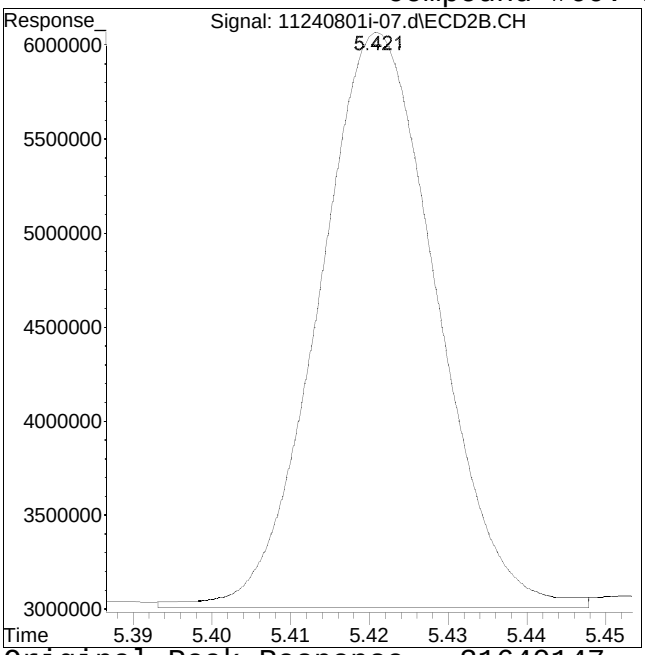
M4 = Poor automated baseline construction.

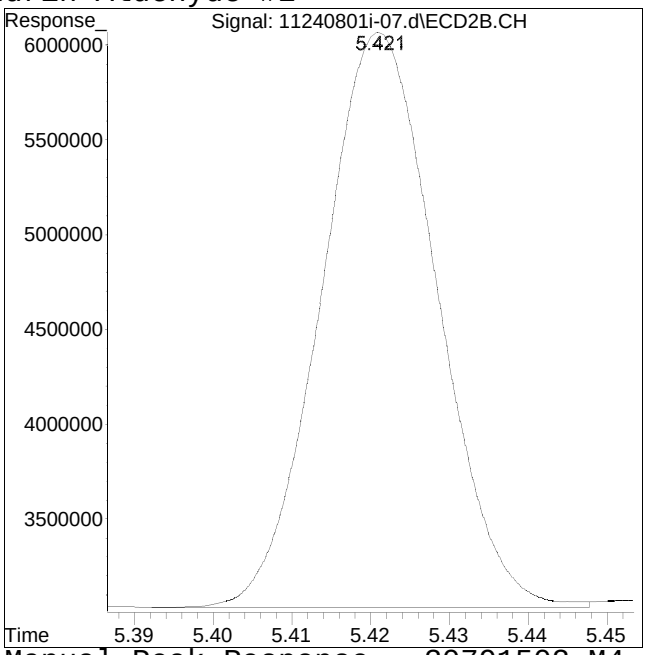
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #60: Endrin Aldehyde #2





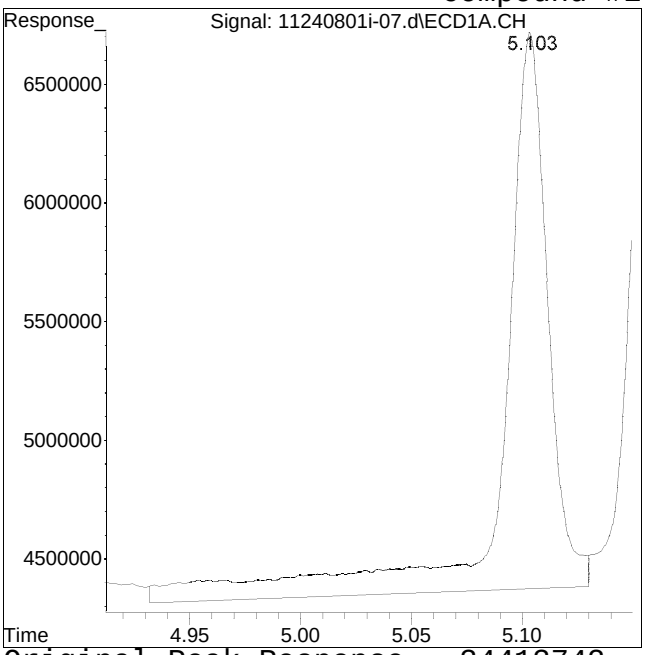
Original Peak Response = 31640147 Manual Peak Response = 30791502 M4
M4 = Poor automated baseline construction.

Manual Integration Report

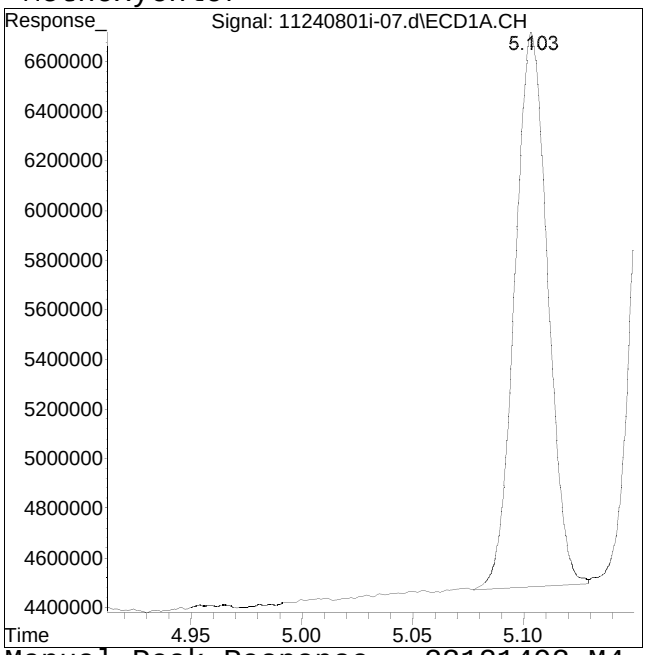
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #23: Methoxychlor



Original Peak Response = 34413742



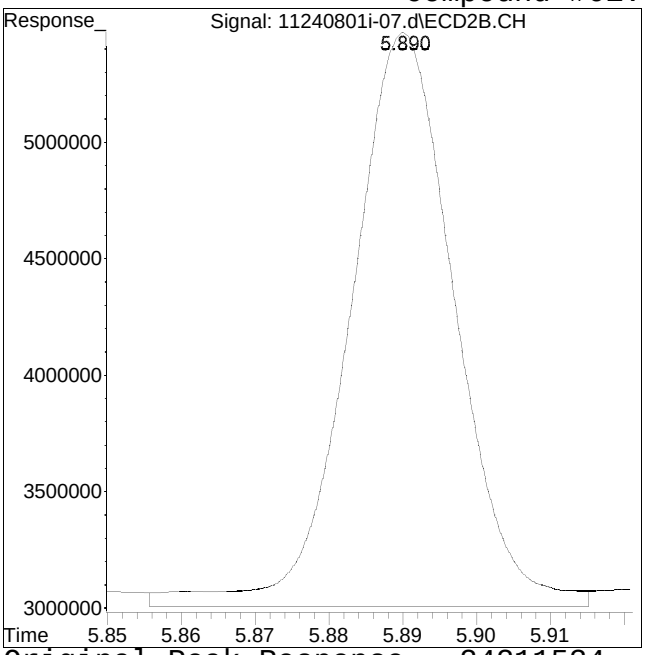
Manual Peak Response = 23121492 M4

M4 = Poor automated baseline construction.

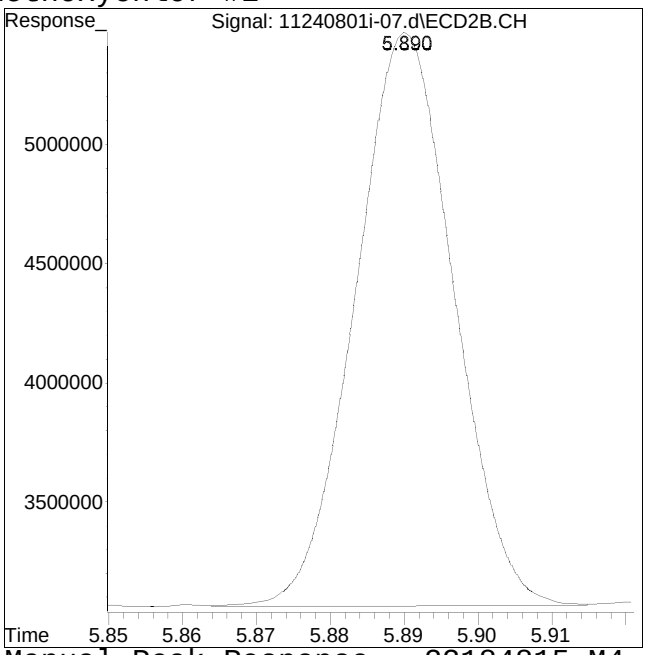
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-07.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:25 Instrument : Pest 11
Sample : il5pest,42e,,pp 11683 L0.0Quant Date : 8/2/2024 10:53 am

Compound #61: Methoxychlor #2



Original Peak Response = 24211534



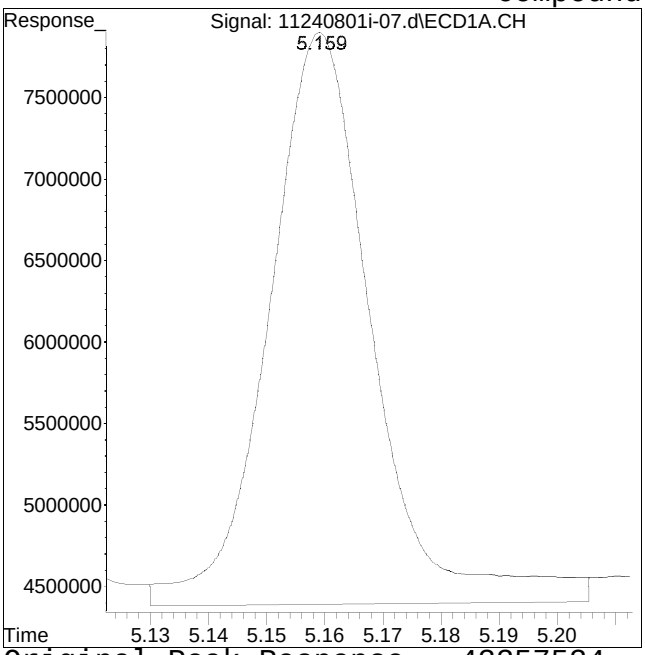
Manual Peak Response = 22184815 M4
M4 = Poor automated baseline construction.

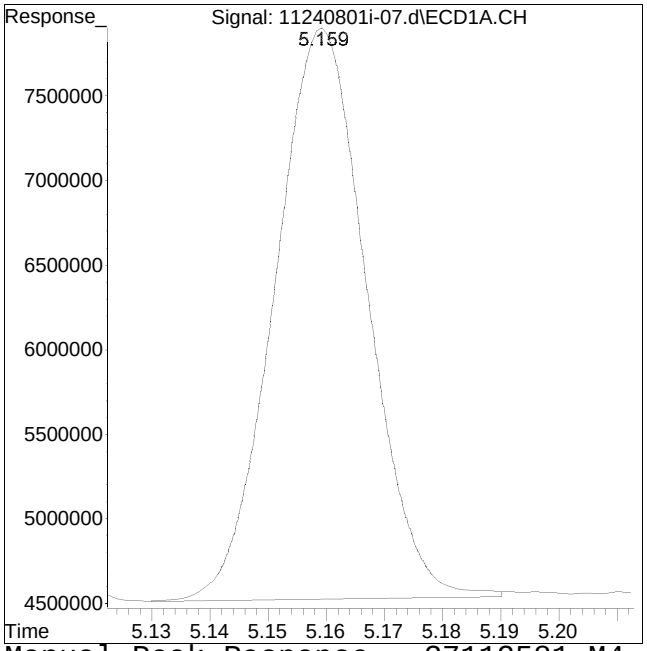
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #24: Mirex





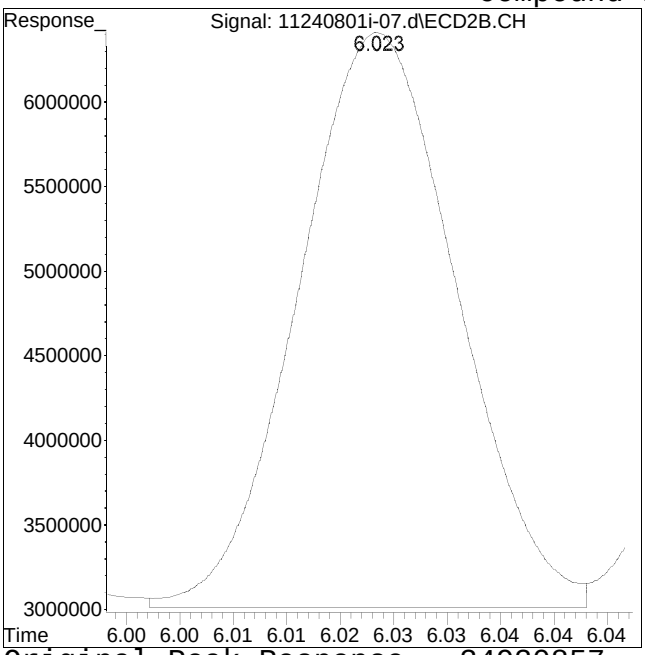
Original Peak Response = 43357534 Manual Peak Response = 37112581 M4
M4 = Poor automated baseline construction.

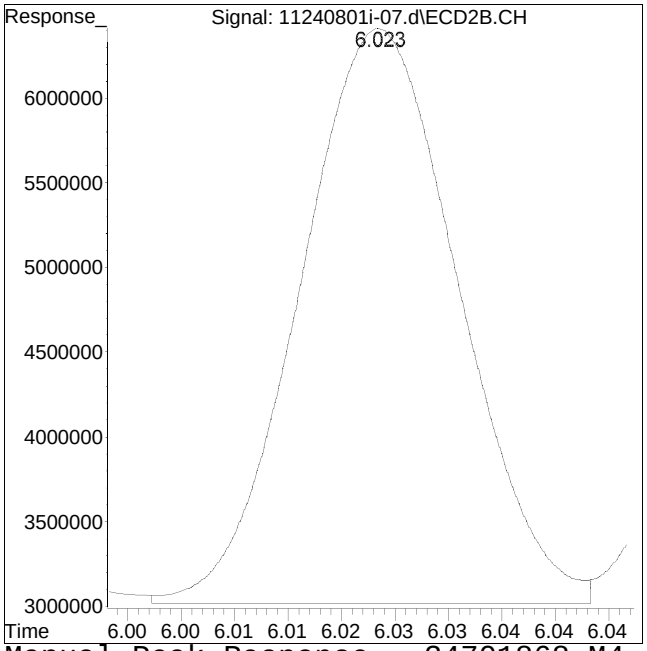
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #62: Mirex #2



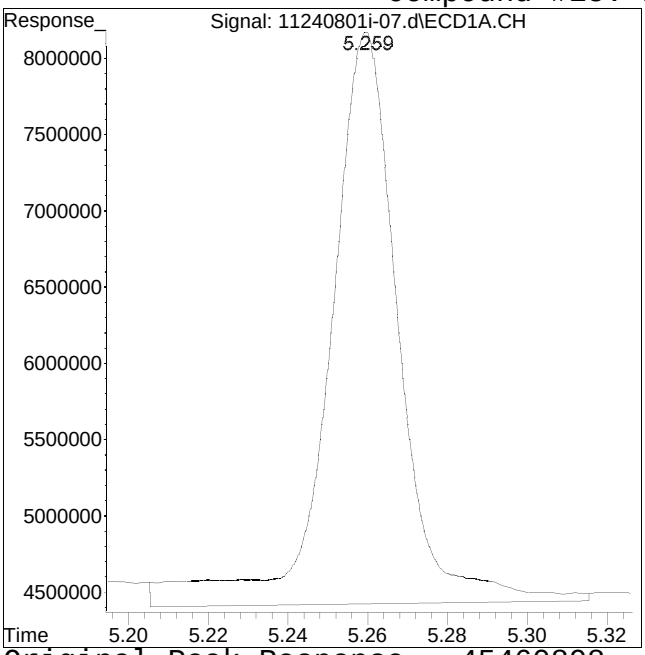


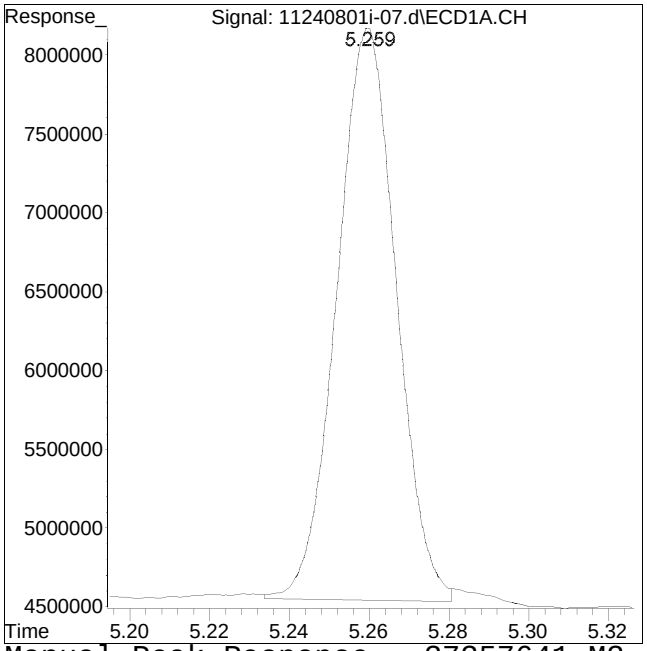
Original Peak Response = 34930857 Manual Peak Response = 34701868 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #25: Endosulfan Sulfate





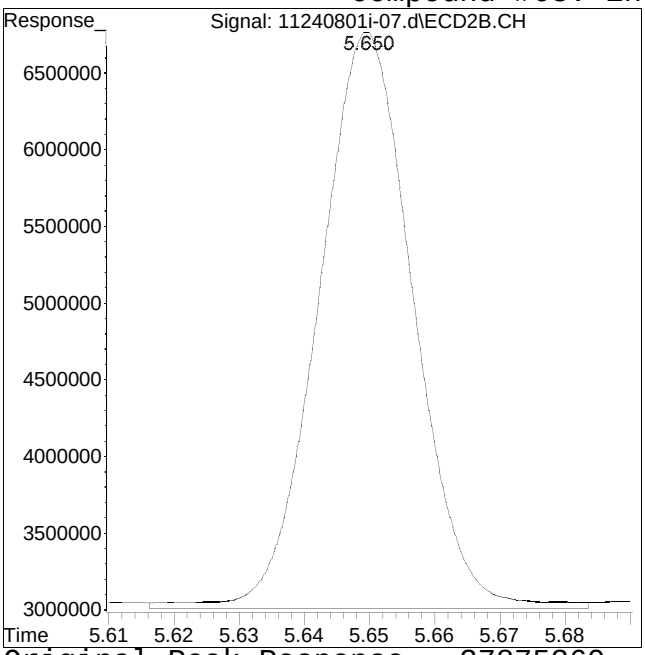
Original Peak Response = 45460898 Manual Peak Response = 37357641 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

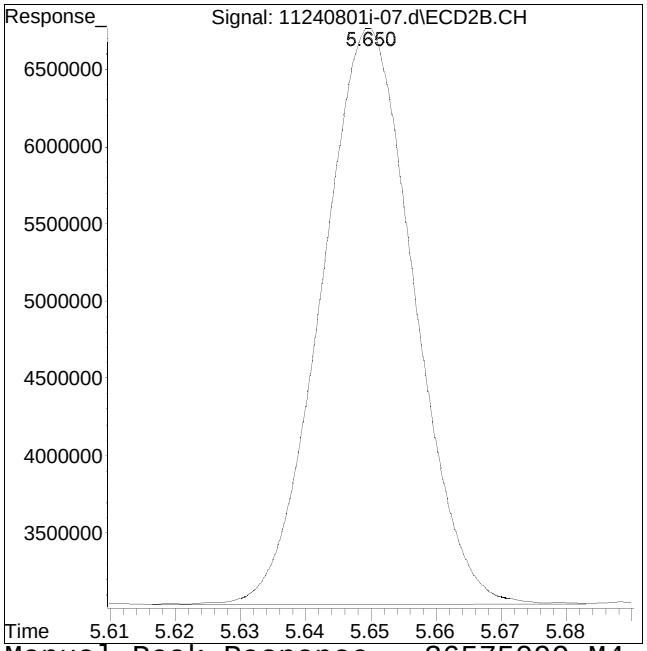
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 37875360



Manual Peak Response = 36575099 M4

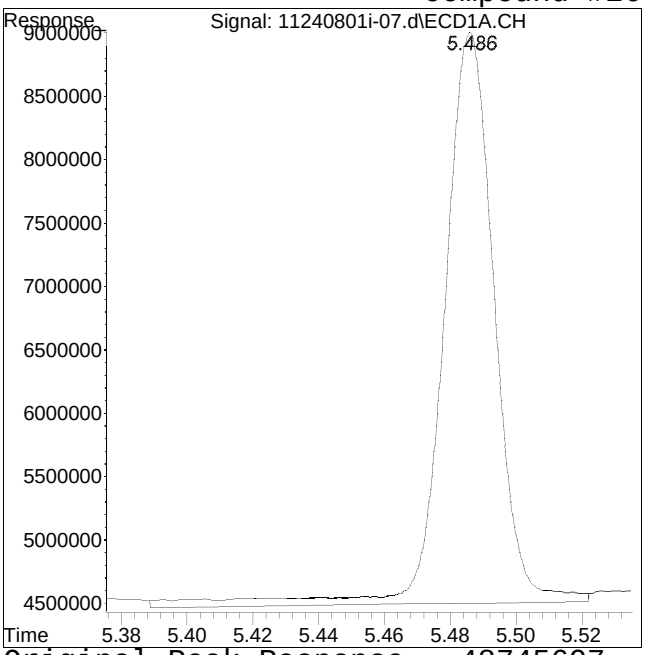
M4 = Poor automated baseline construction.

Manual Integration Report

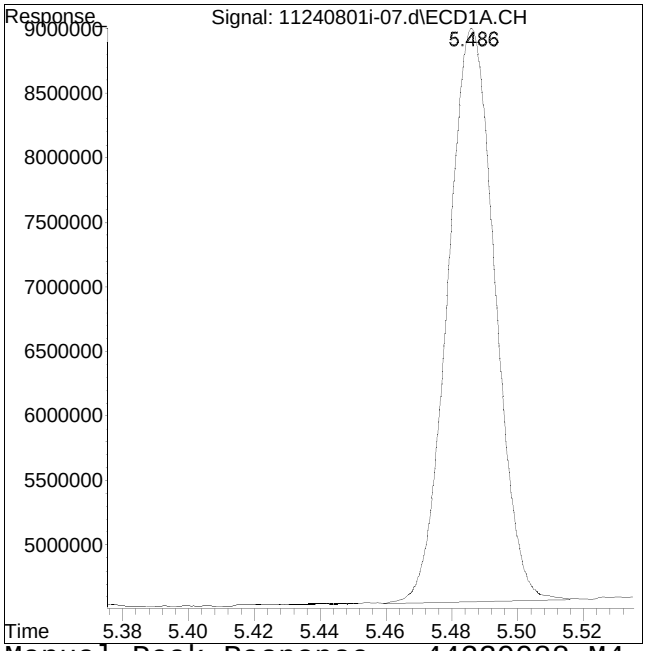
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #26: Endrin Ketone



Original Peak Response = 48745697



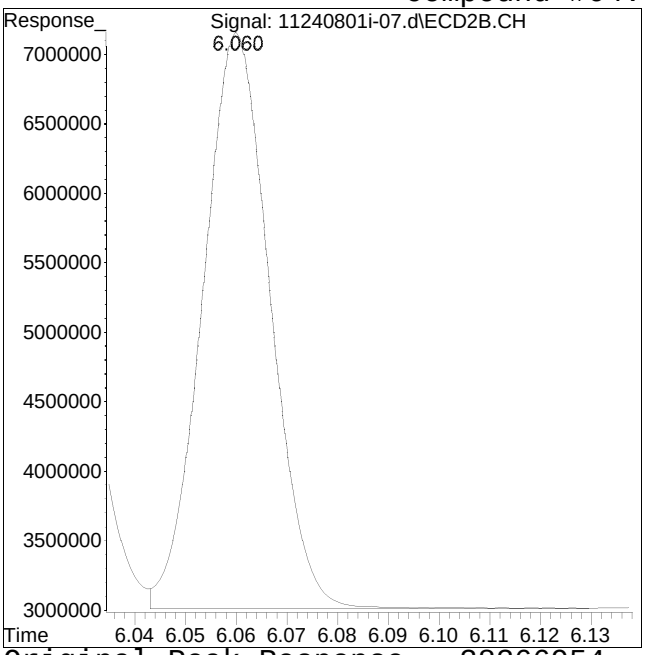
Manual Peak Response = 44230088 M4

M4 = Poor automated baseline construction.

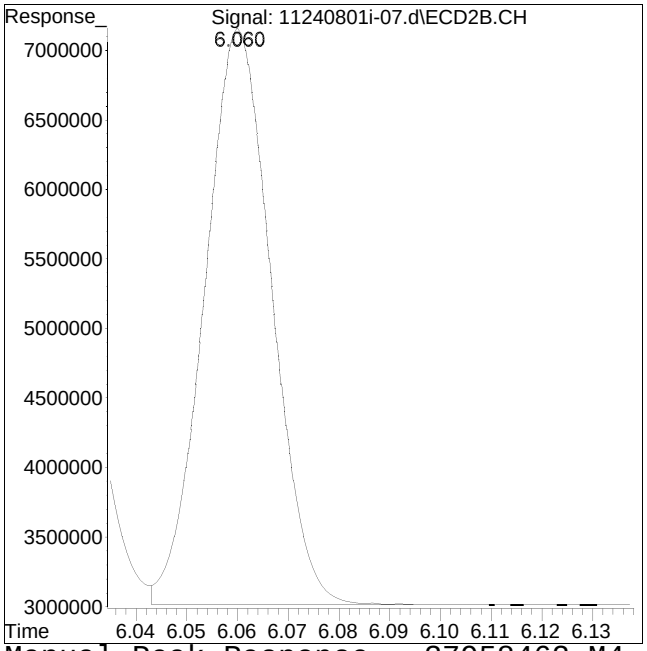
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #64: Endrin Ketone #2



Original Peak Response = 38366954



Manual Peak Response = 37958462 M4

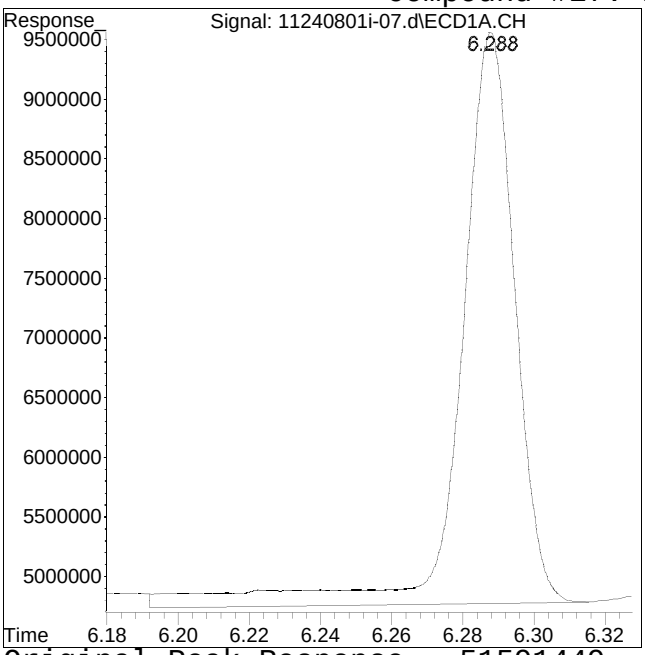
M4 = Poor automated baseline construction.

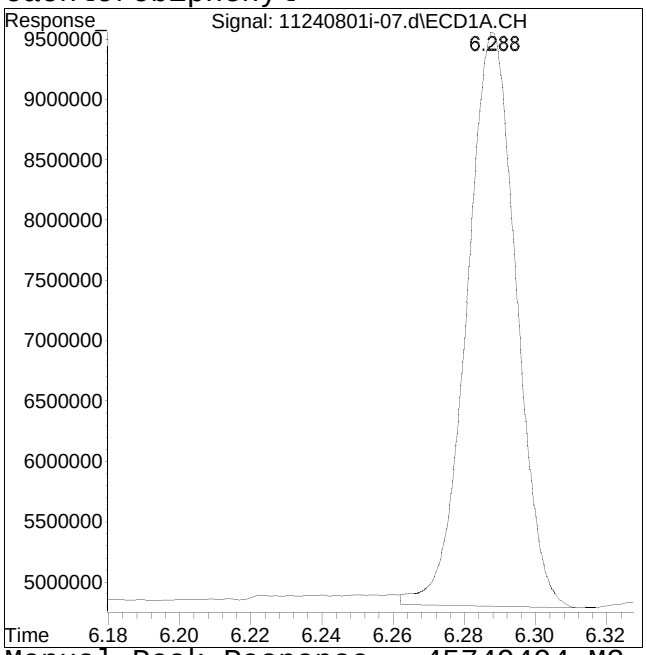
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 51591449 Manual Peak Response = 45749494 M3

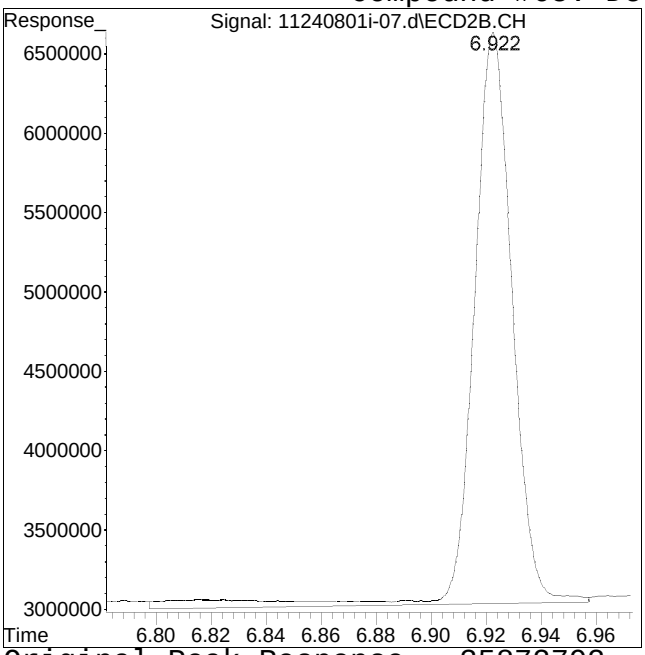
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

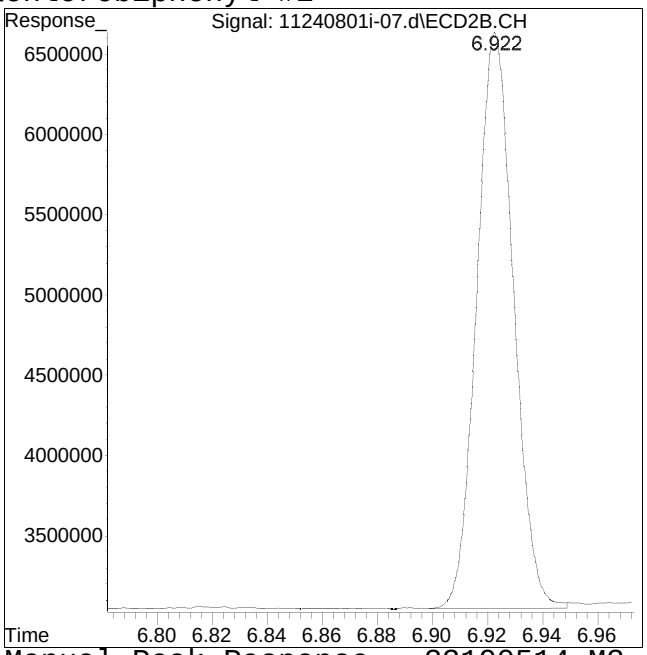
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-07.d
Date Inj'd : 8/1/2024 19:25
Sample : il5pest,42e,,pp 11683 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:53 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 35872792 Manual Peak Response = 33190514 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	230.2E6	183.2E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	94692243	79326112	10.009M3	10.112M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		20.02%#	20.22%#
27) s	Decachlorobi	6.288	6.926	105.6E6	76218538	11.126M4	11.124M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.25%#	22.25%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	128.7E6	87741303	10.612M3	10.546M4
4) t	alpha-BHC	1.963	2.271	131.5E6	113.4E6	8.927M4	8.964M4
5) t	gamma-BHC (l	2.165	2.556	124.7E6	105.7E6	9.208M4	9.281M4
6) t	beta-BHC	2.221	2.622	57666588	50690449	10.408M4	10.925M4
7) t	delta-BHC	2.349	2.889	123.1E6	105.8E6	8.948M4	9.082M4
8) t	Heptachlor	2.513	2.952	121.4E6	113.2E6	9.955M3	10.142M4
9) t	Aldrin	2.756	3.271	111.0E6	100.2E6	9.353M3	9.490
10) t	Alachlor	2.876	3.153	21898451	17688763	11.052M3	13.104M4
11) t	Chlorpyrifos	2.968	3.506	56598911	64282619	12.097M4	12.517M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	109.2E6	100.6E6	10.102M3	10.320M4
13)	t	gamma-Chlord	3.424	4.104	96157290	90465298	9.543M4	9.961M4
14)	t	alpha-Chlord	3.558	4.274	110.5E6	101.3E6	9.760M3	10.124M4
15)	t	4,4'-DDE	3.656	4.473	107.5E6	93263696	9.325M4	9.283M4
16)	t	Endosulfan I	3.695	4.335	102.4E6	94144855	9.968	10.358M4
17)	t	Dieldrin	3.954	4.627	102.5E6	92864186	9.418M4	9.671M3
18)	t	Endrin	4.209	4.925	105.4E6	94579708	9.682M4	9.746M4
19)	t	4,4'-DDD	4.321	5.049	82871356	75210993	9.153M4	9.330M4
20)	t	Endosulfan I	4.451	5.125	97072990	86490847	10.043	10.443M4
21)	t	4,4'-DDT	4.615	5.326	95391216	87653270	9.380M4	9.565M4
22)	t	Endrin Aldeh	4.868	5.421	80826935	71991100	9.975M3	10.462M3
23)	t	Methoxychlor	5.104	5.890	55896006	50960693	11.325M4	11.378M3
24)	t	Mirex	5.159	6.024	88807138	77737040	11.134M3	11.745
25)	t	Endosulfan S	5.259	5.650	92158727	84950349	10.221M3	10.550M4
26)	t	Endrin Keton	5.486	6.060	110.5E6	91234131	10.280M4	10.487M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

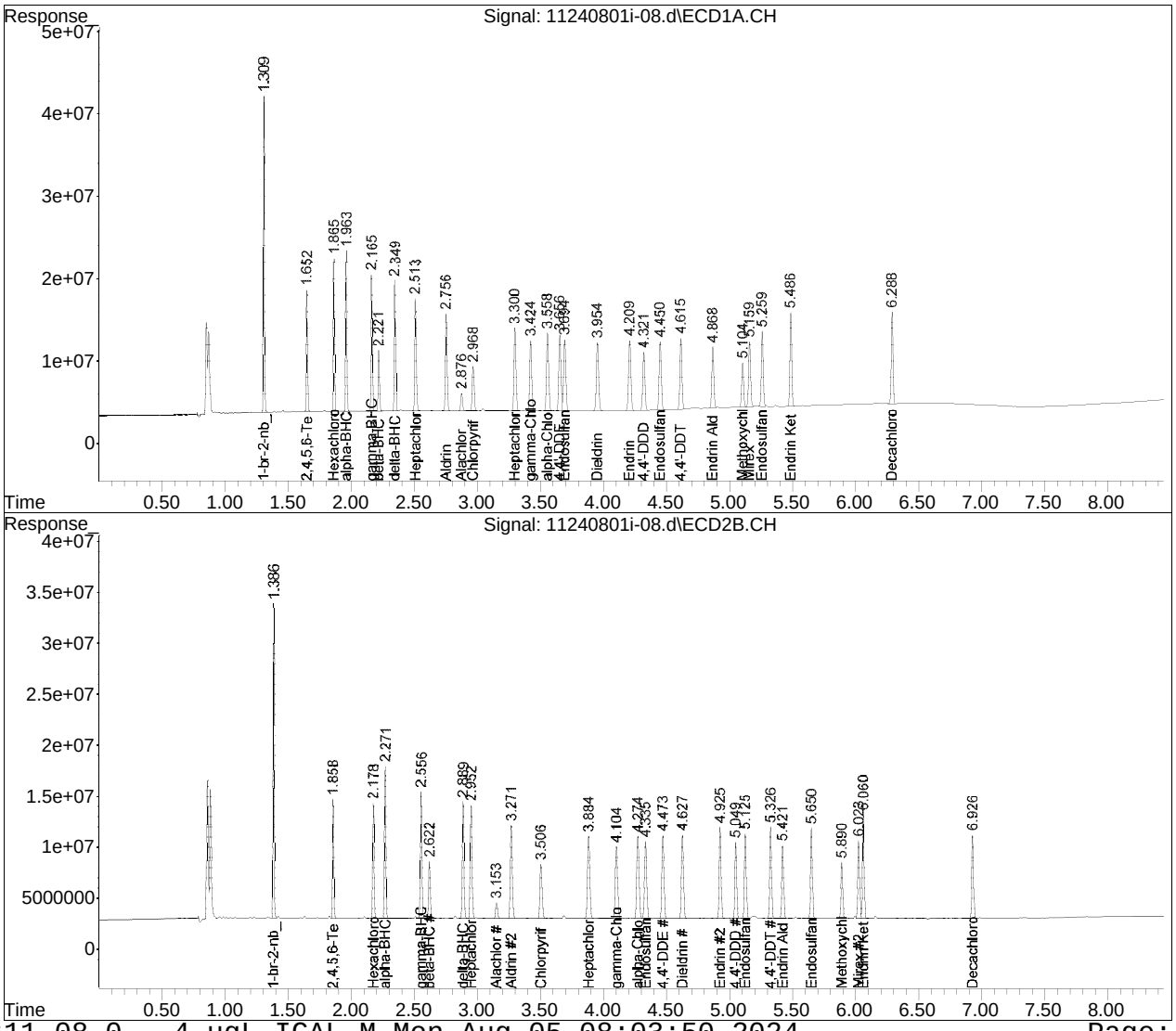
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:37
Operator : PEST11:ejl
Sample : il7pest,42e,,pp 11682 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 10:46:08 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 10:46:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

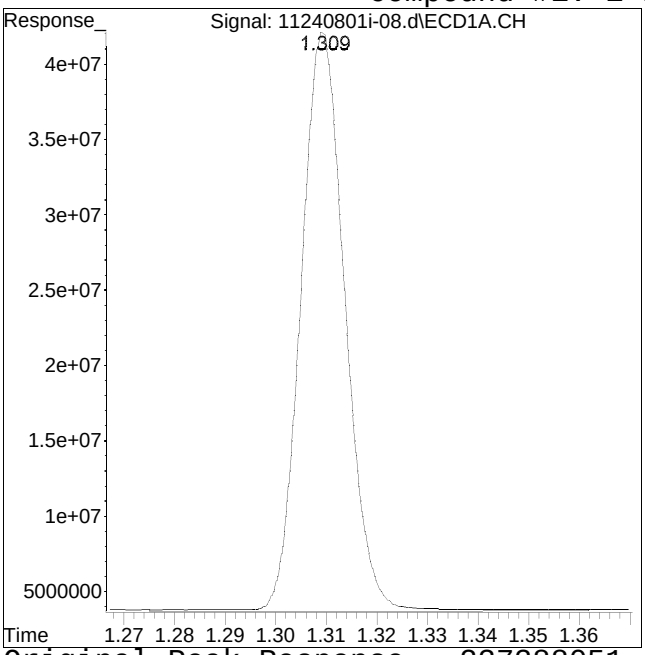


Manual Integration Report

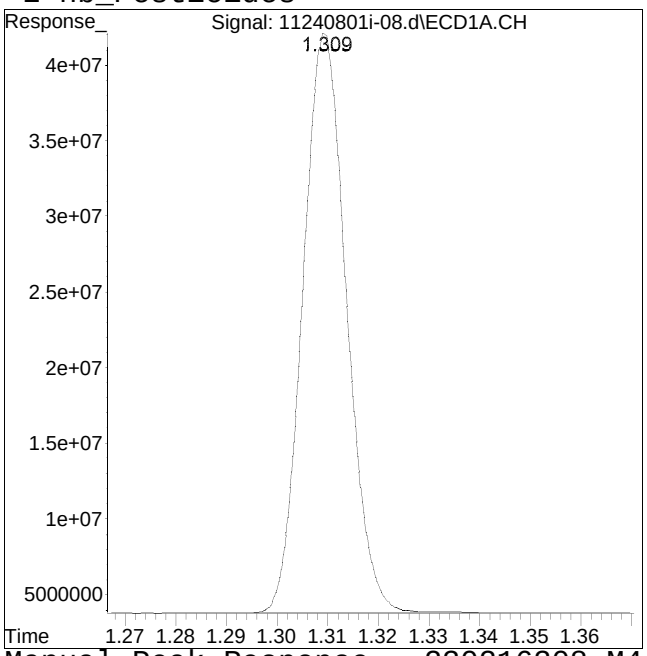
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 237388051



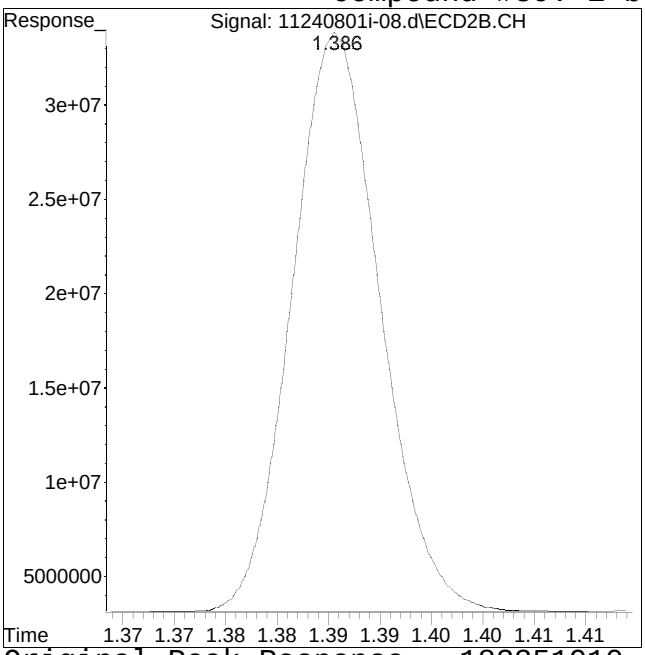
Manual Peak Response = 230216308 M4

M4 = Poor automated baseline construction.

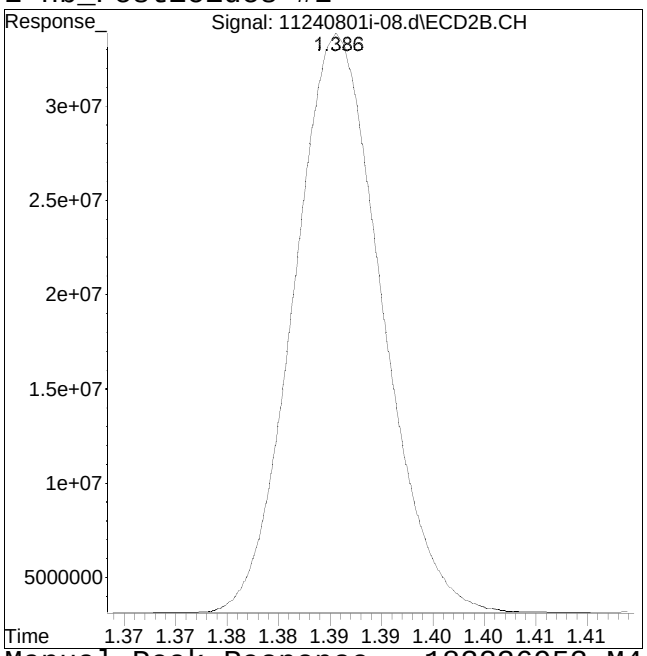
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 183351910



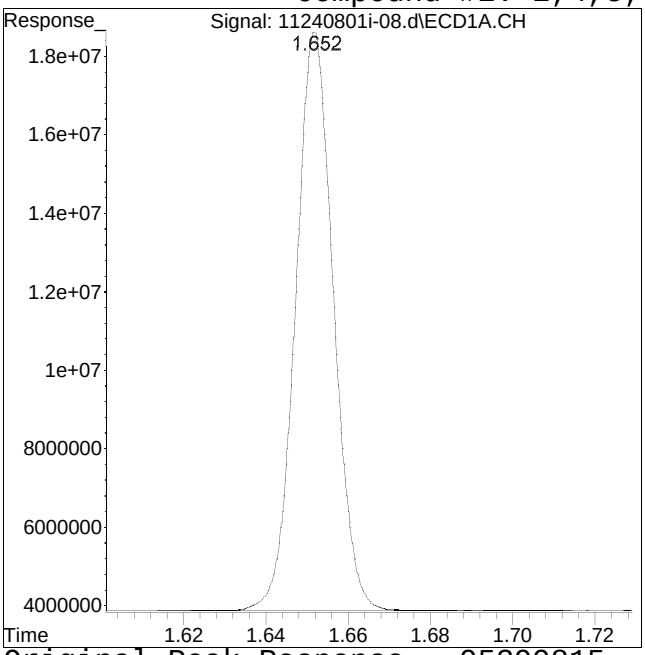
Manual Peak Response = 183236953 M4

M4 = Poor automated baseline construction.

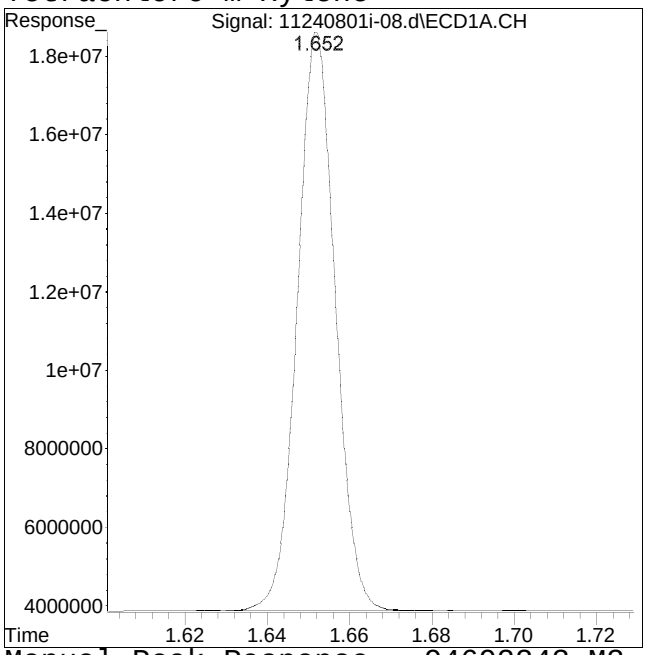
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 95399815



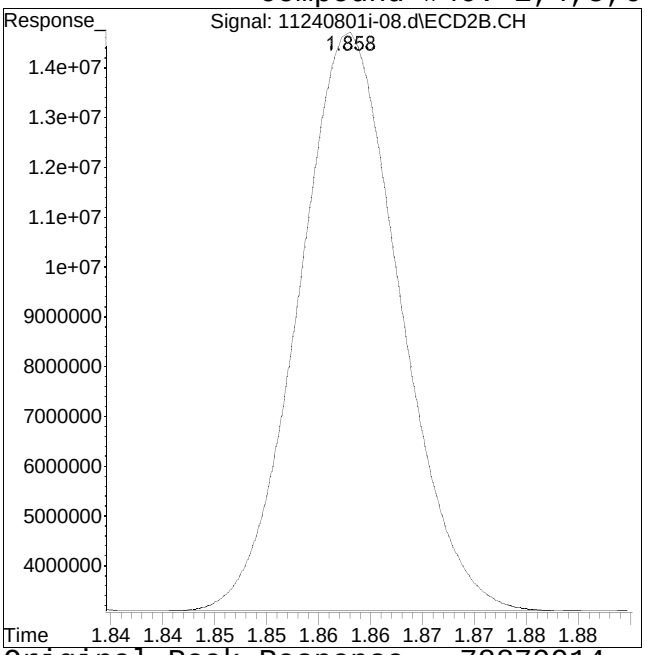
Manual Peak Response = 94692243 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

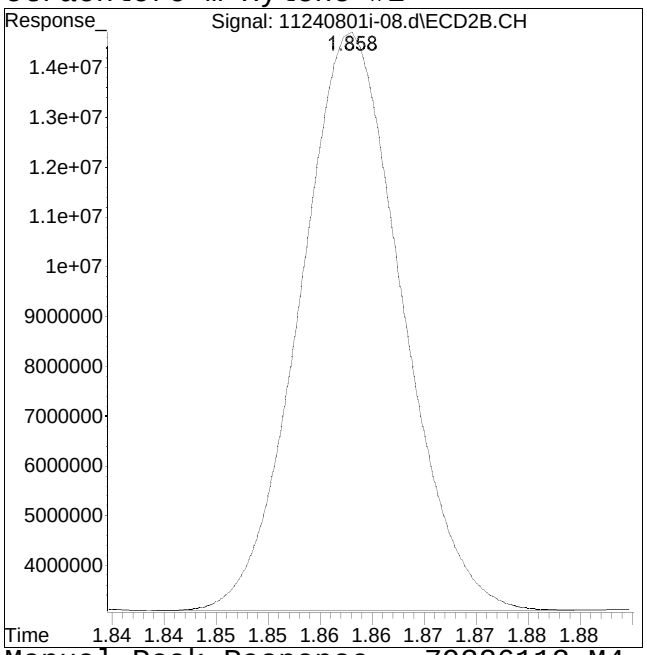
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 78879914



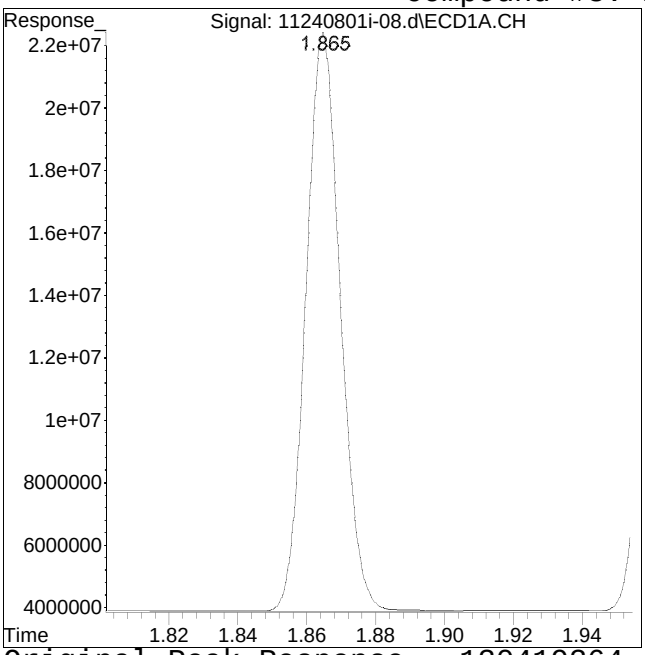
Manual Peak Response = 79326112 M4

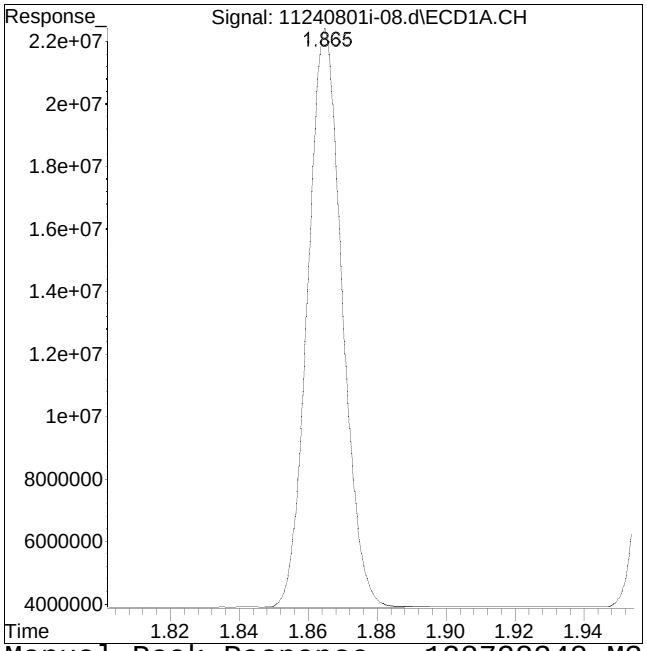
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #3: Hexachlorobenzene





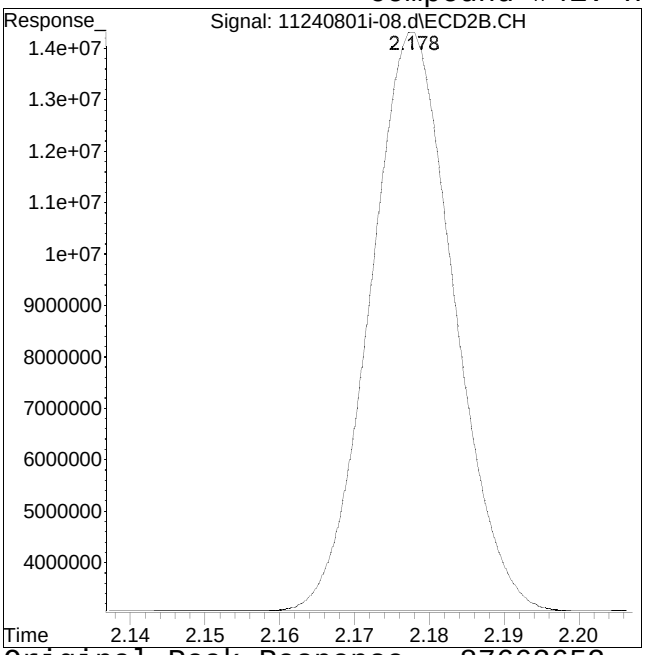
Original Peak Response = 130419364 Manual Peak Response = 128728348 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

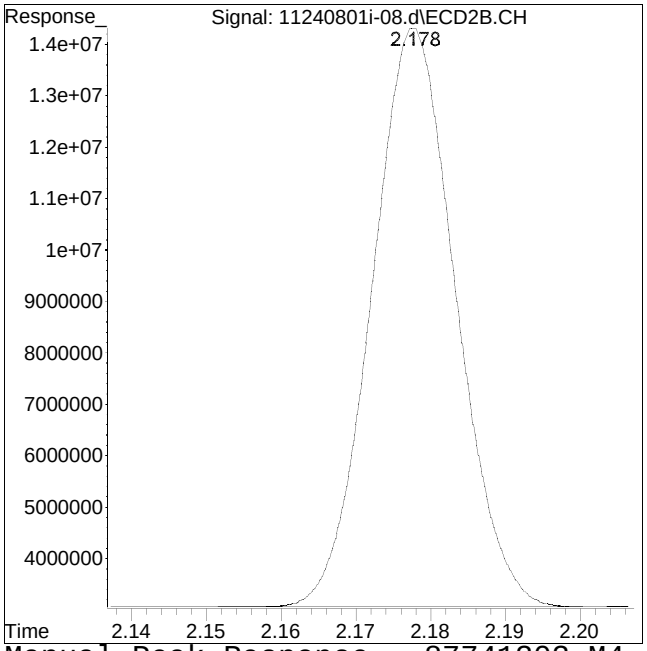
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 87662652



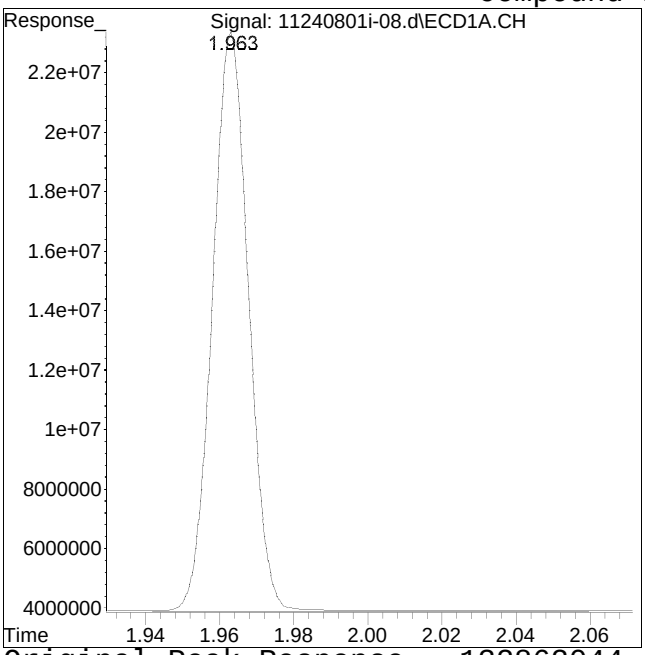
Manual Peak Response = 87741303 M4

M4 = Poor automated baseline construction.

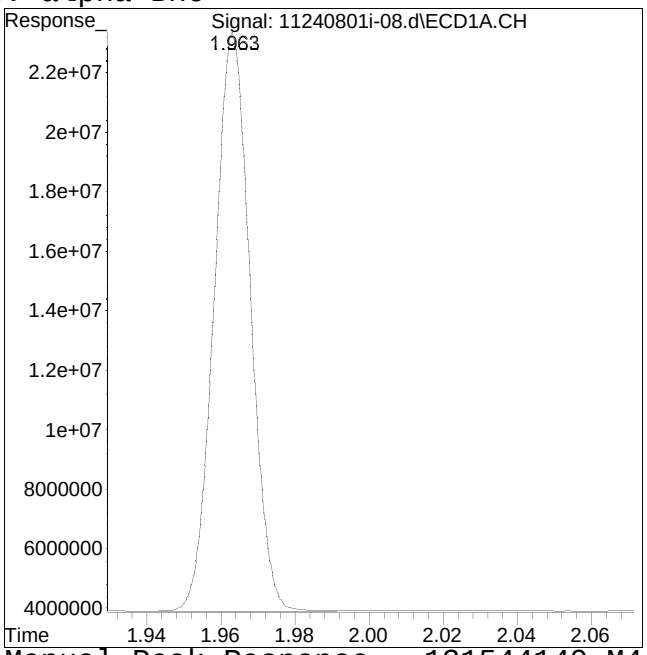
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #4: alpha-BHC



Original Peak Response = 132862044



Manual Peak Response = 131544140 M4

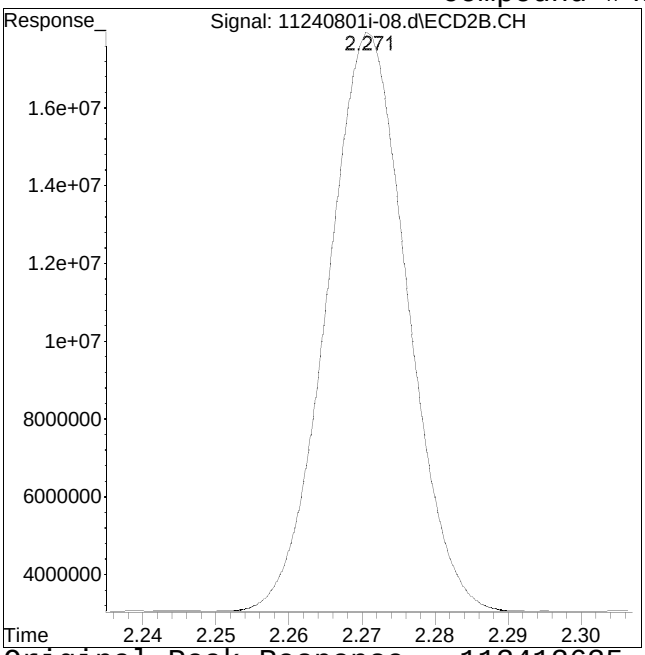
M4 = Poor automated baseline construction.

Manual Integration Report

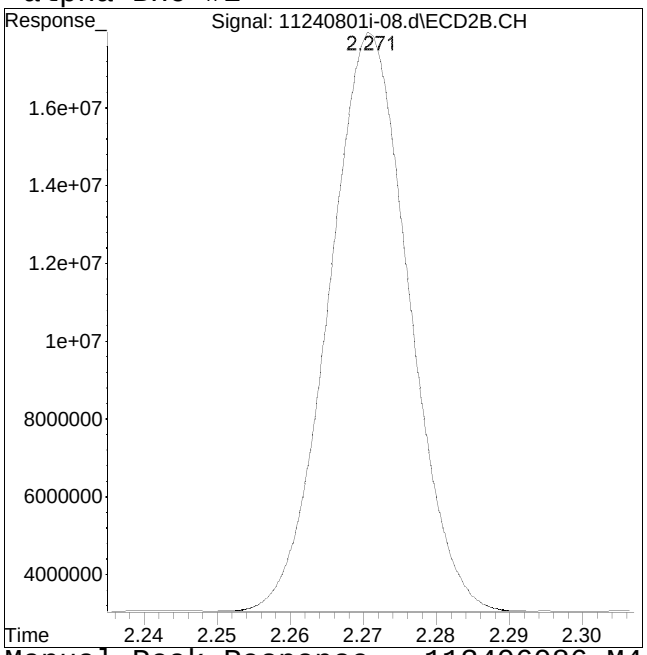
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #42: alpha-BHC #2



Original Peak Response = 113412635



Manual Peak Response = 113406086 M4

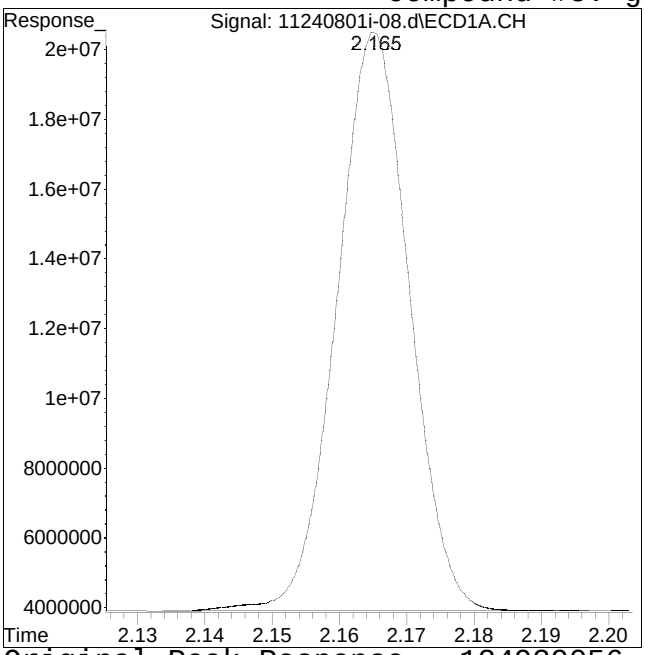
M4 = Poor automated baseline construction.

Manual Integration Report

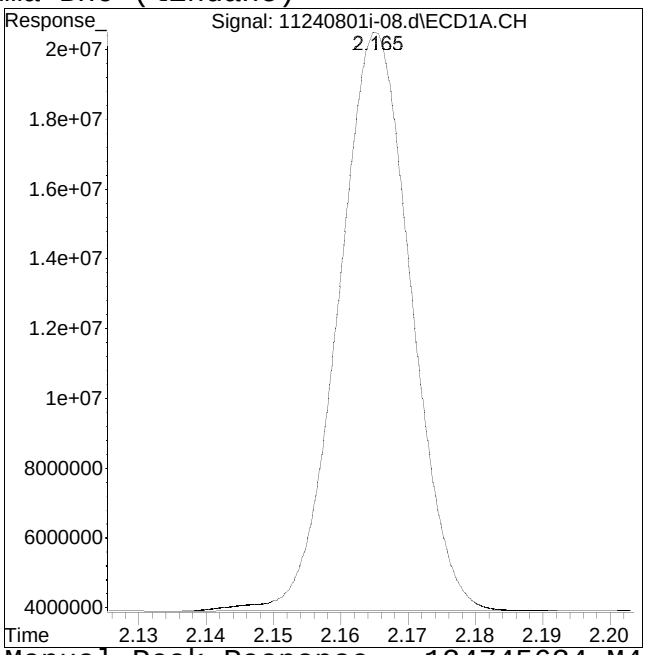
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 124929056



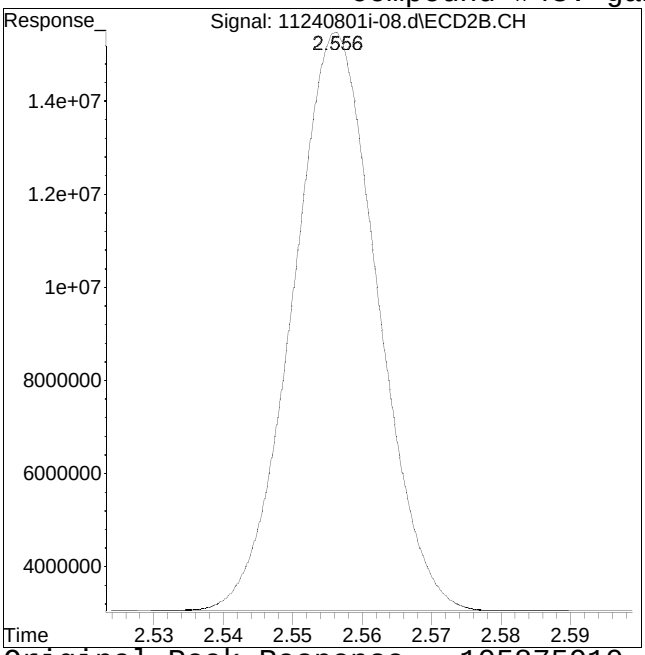
Manual Peak Response = 124745634 M4

M4 = Poor automated baseline construction.

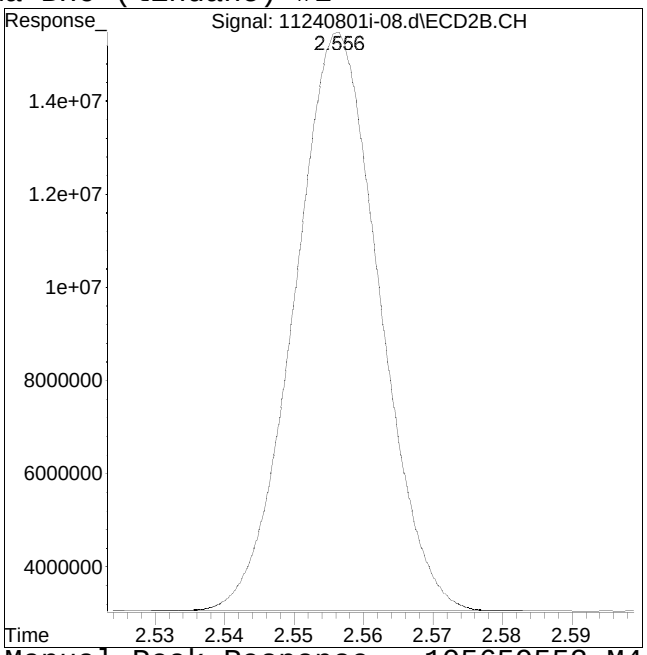
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 105875910

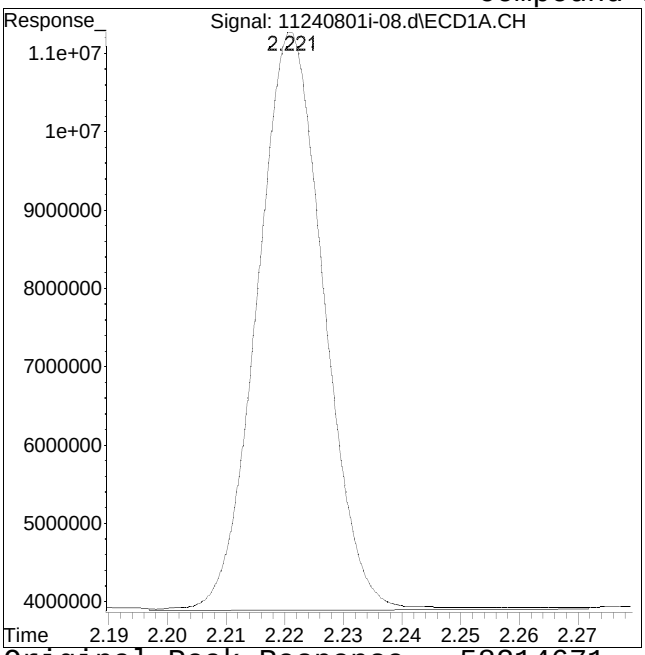


Manual Peak Response = 105659552 M4
M4 = Poor automated baseline construction.

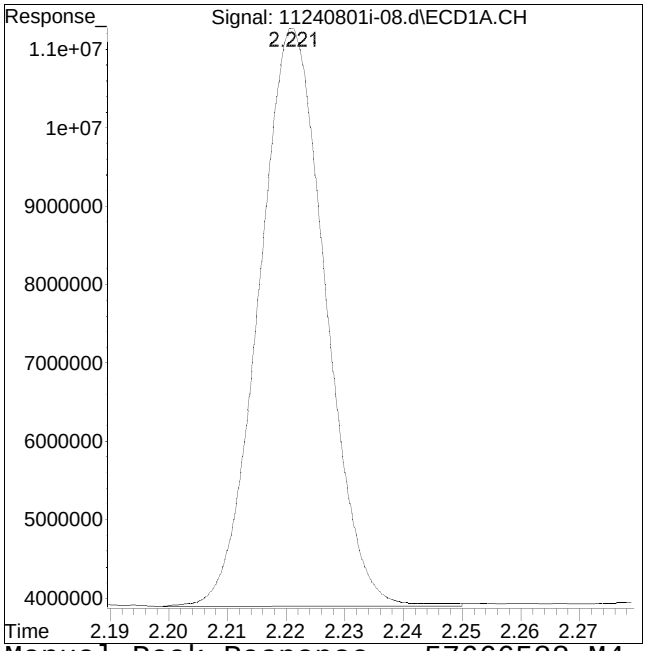
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #6: beta-BHC



Original Peak Response = 58214671



Manual Peak Response = 57666588 M4

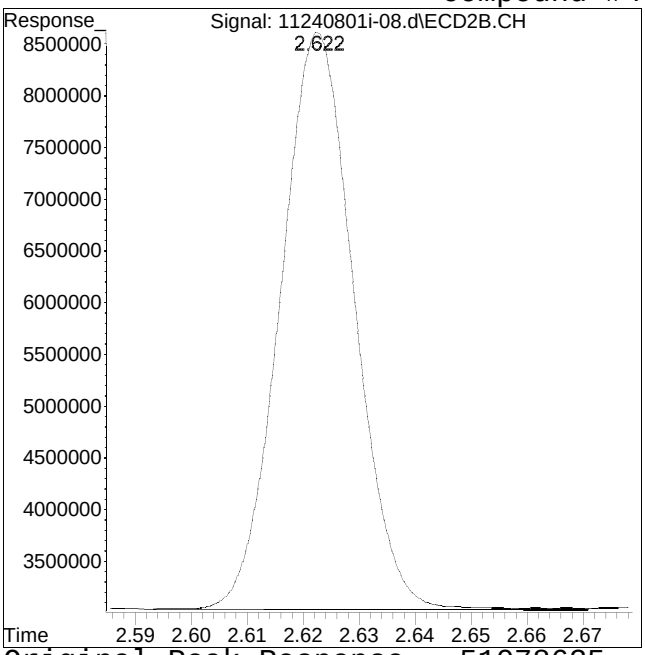
M4 = Poor automated baseline construction.

Manual Integration Report

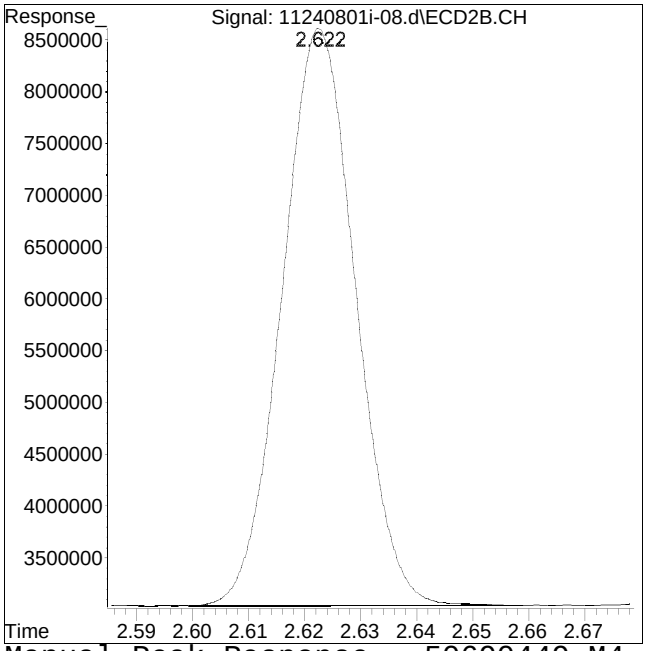
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #44: beta-BHC #2



Original Peak Response = 51078635



Manual Peak Response = 50690449 M4

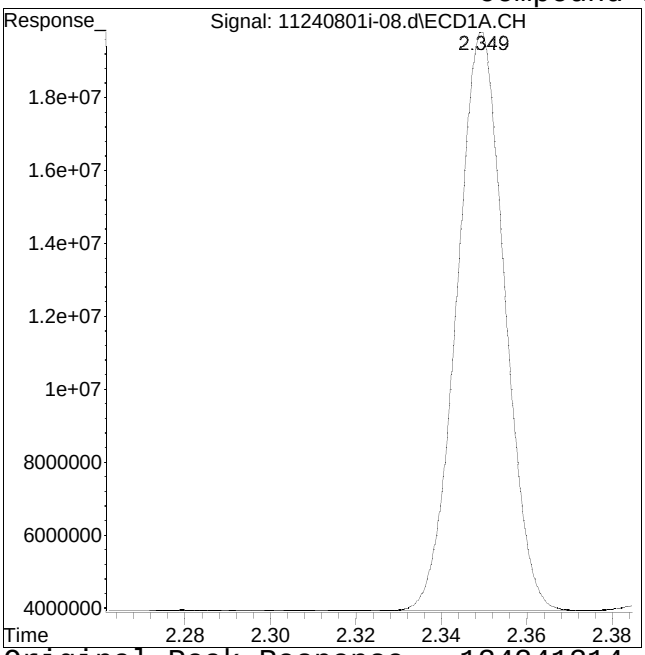
M4 = Poor automated baseline construction.

Manual Integration Report

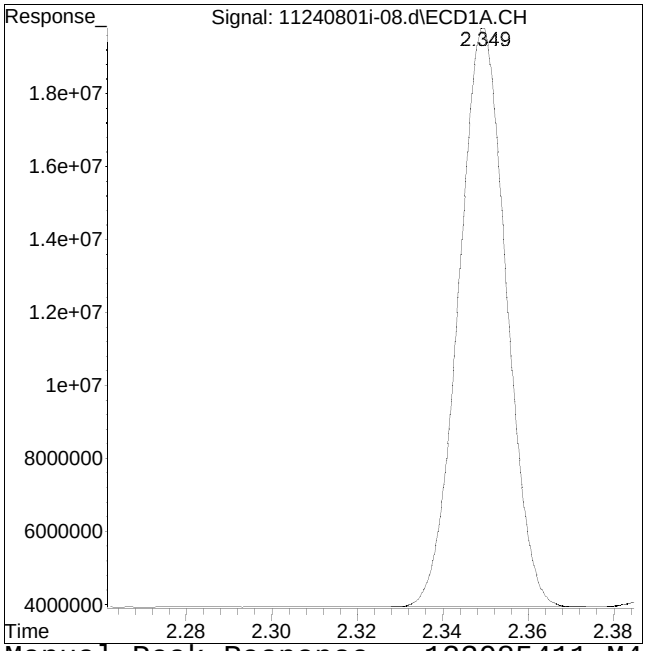
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #7: delta-BHC



Original Peak Response = 124241314



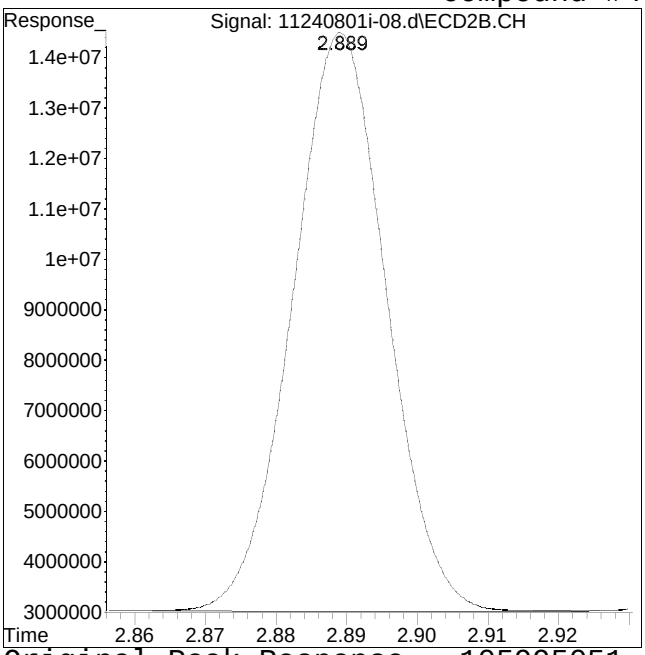
Manual Peak Response = 123085411 M4

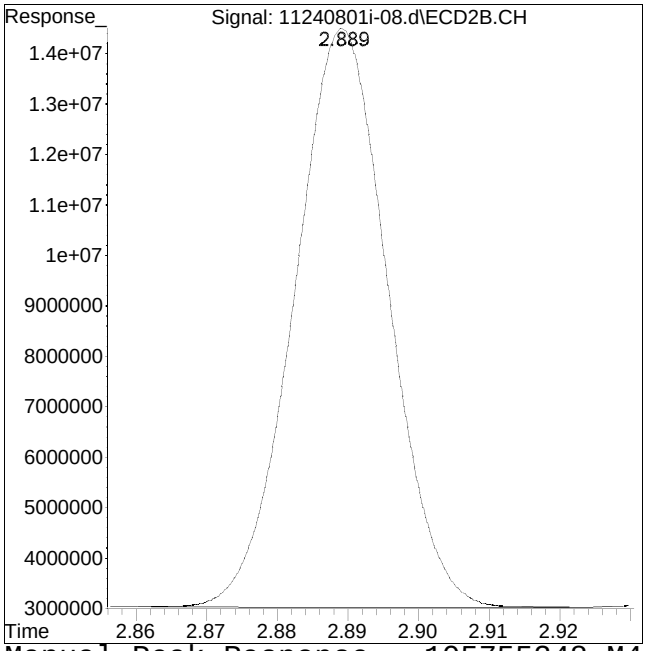
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #45: delta-BHC #2



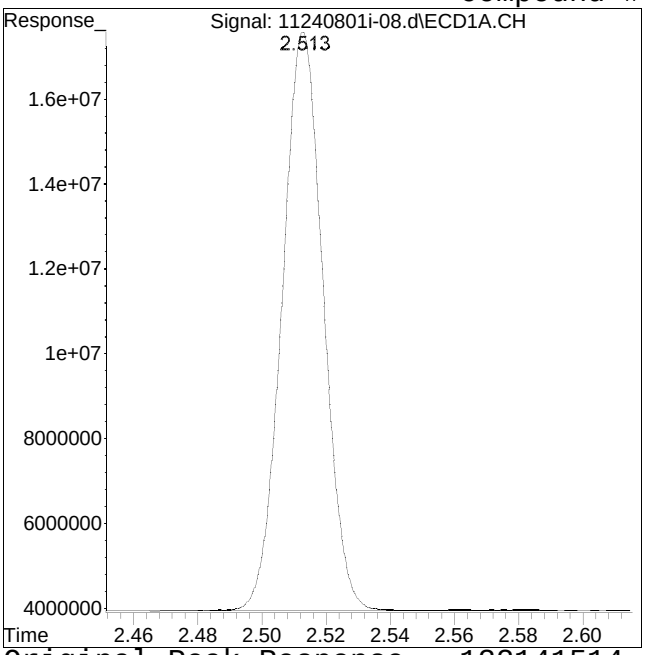


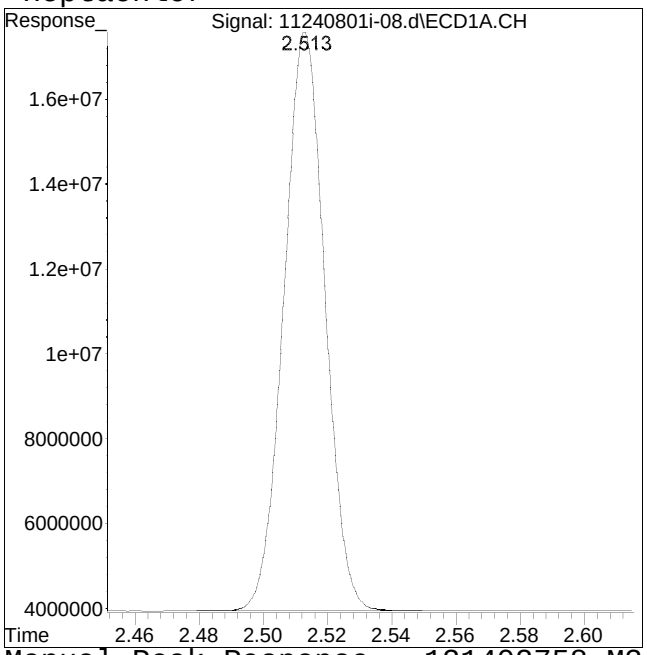
Original Peak Response = 105995051 Manual Peak Response = 105755248 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #8: Heptachlor



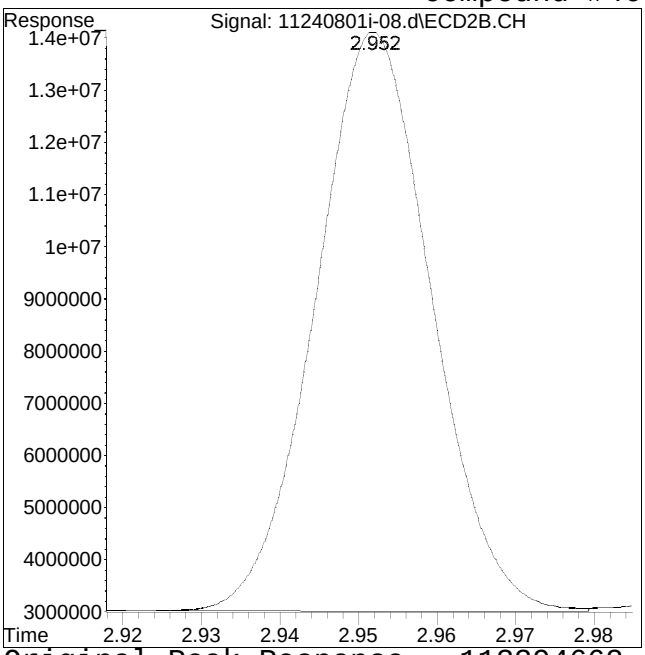


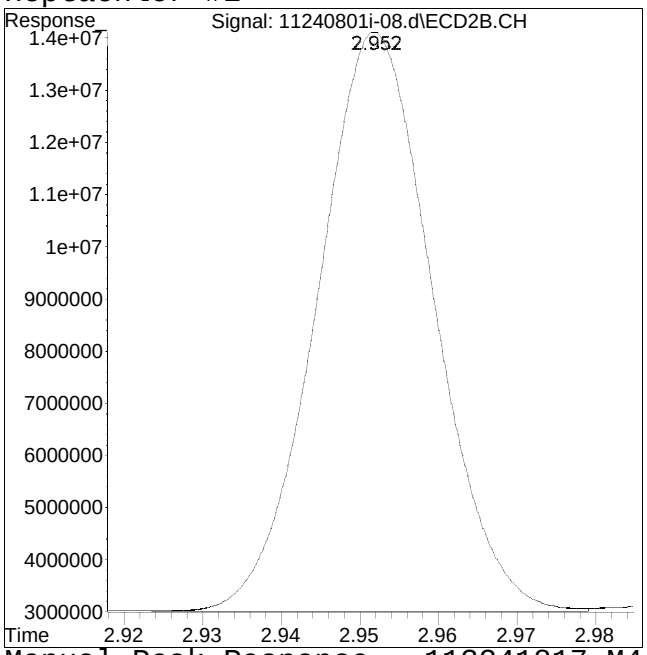
Original Peak Response = 122141514 Manual Peak Response = 121402758 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #46: Heptachlor #2





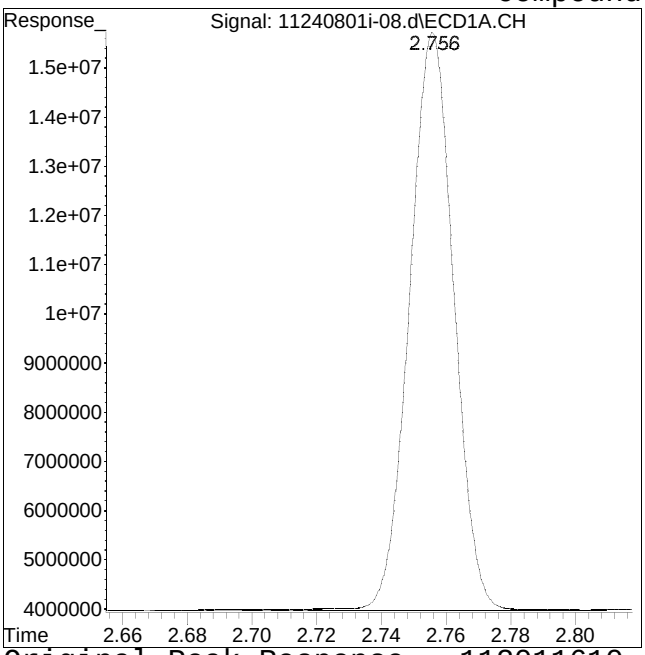
Original Peak Response = 113394662 Manual Peak Response = 113241817 M4
M4 = Poor automated baseline construction.

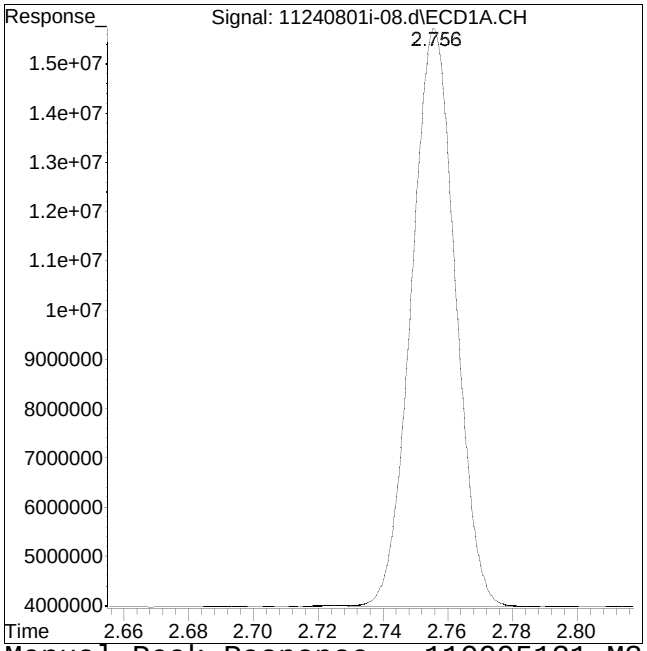
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #9: Aldrin





Original Peak Response = 112011610 Manual Peak Response = 110995131 M3

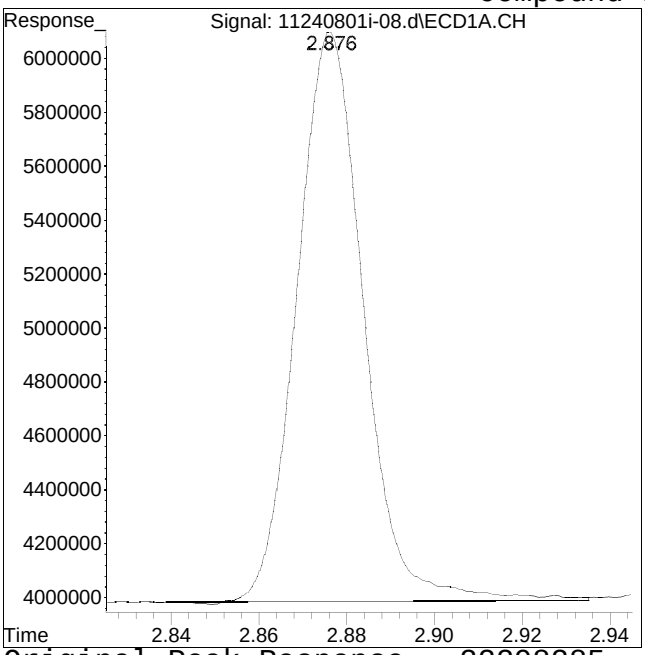
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

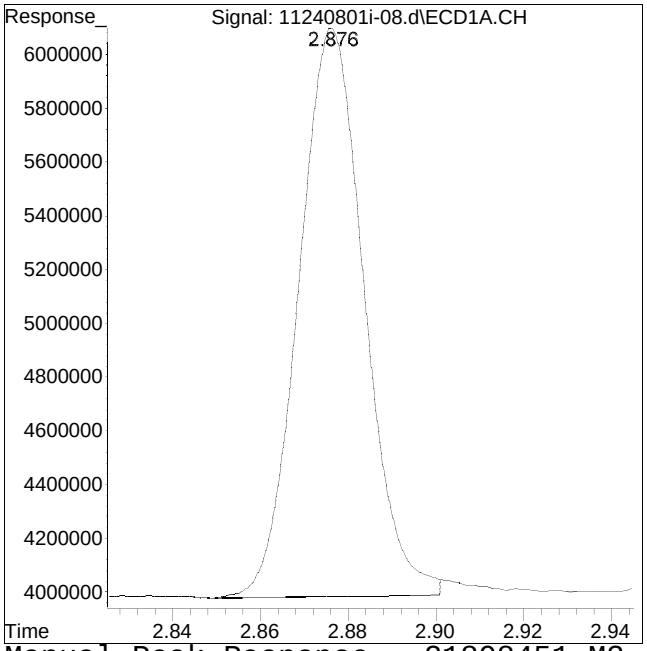
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #10: Alachlor





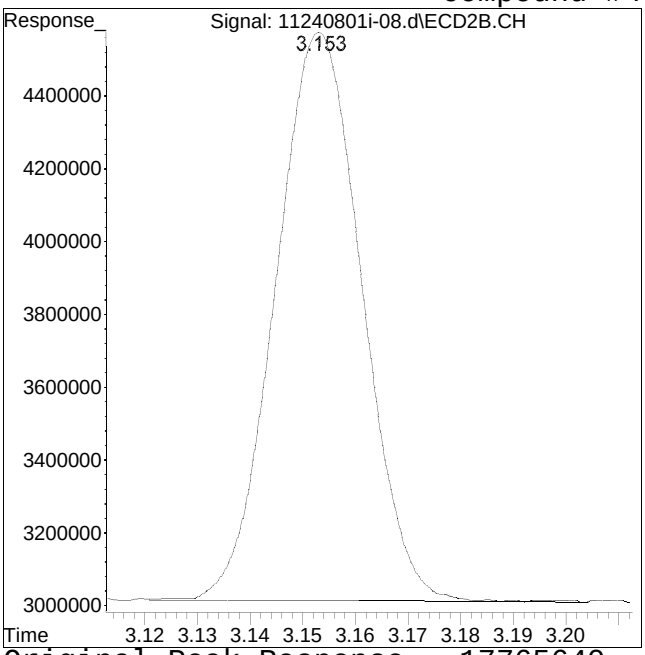
Original Peak Response = 22298285 Manual Peak Response = 21898451 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

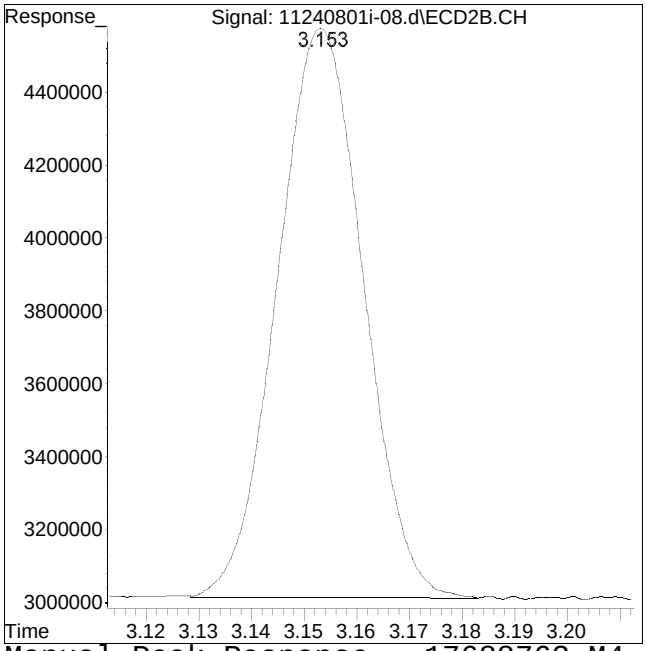
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #48: Alachlor #2



Original Peak Response = 17765640



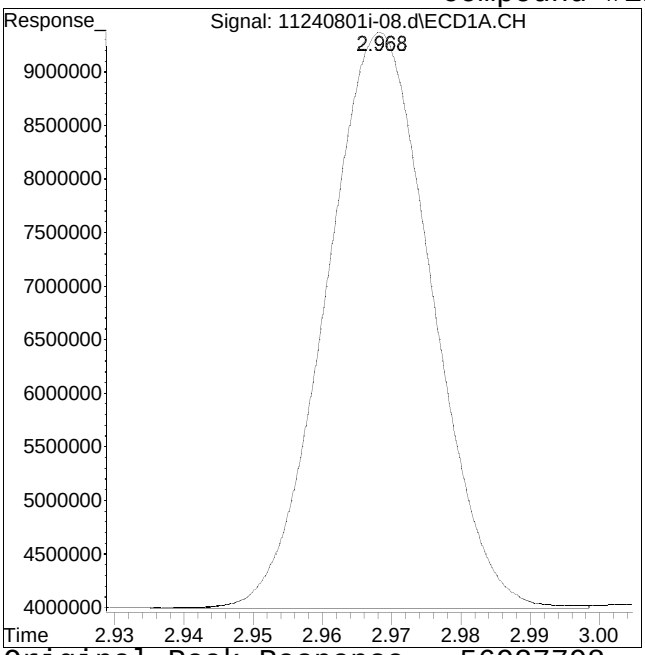
Manual Peak Response = 17688763 M4

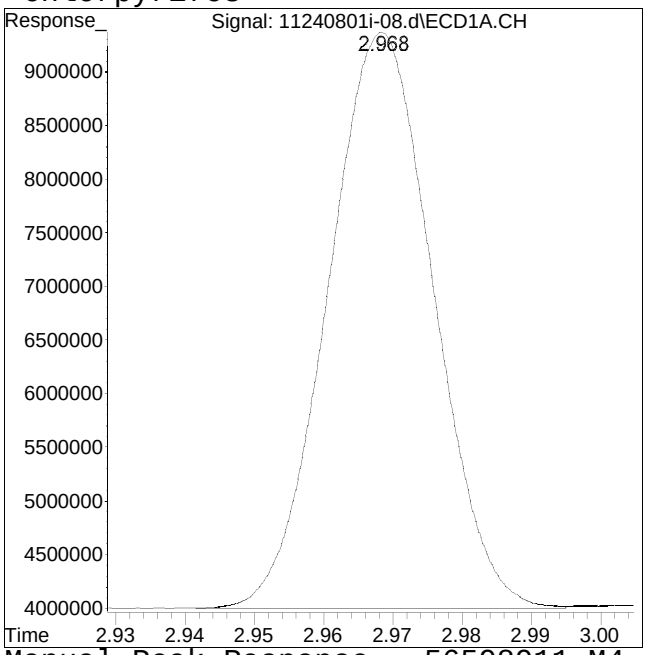
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #11: Chlorpyrifos





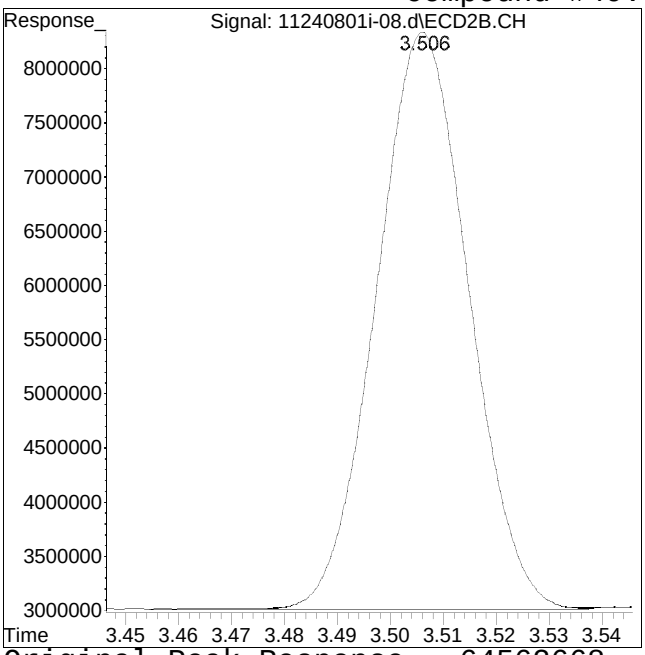
Original Peak Response = 56927798 Manual Peak Response = 56598911 M4
M4 = Poor automated baseline construction.

Manual Integration Report

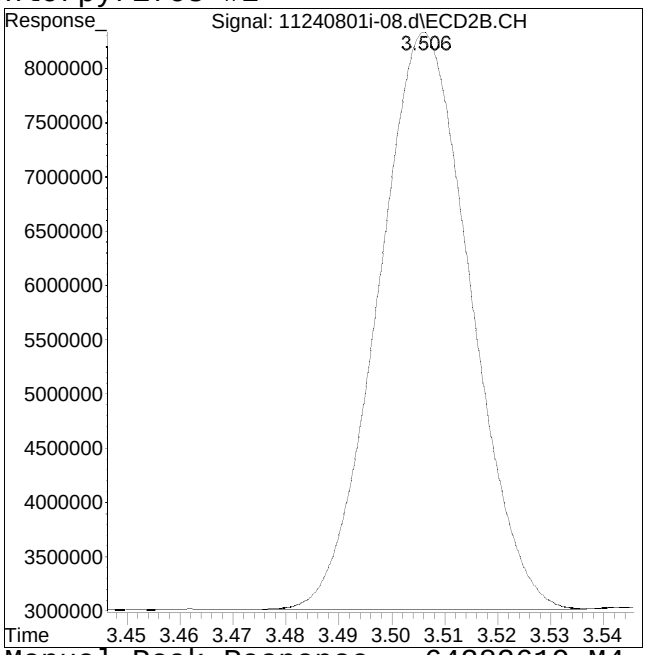
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 64562668



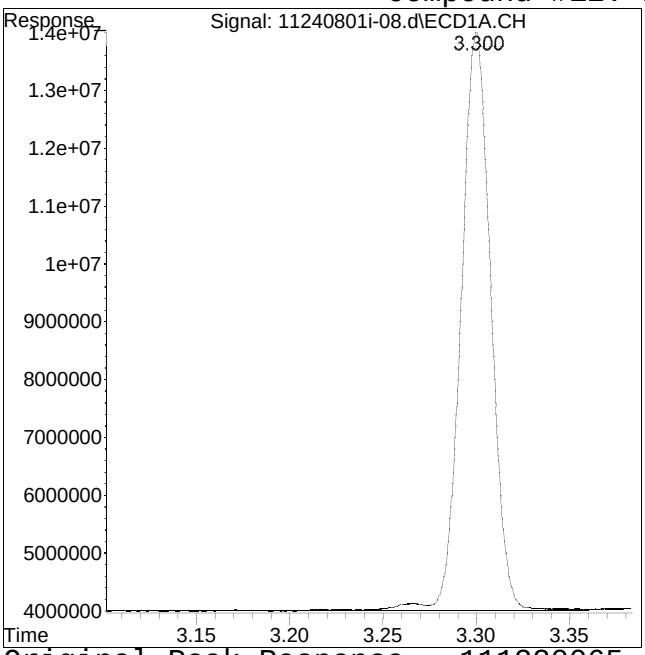
Manual Peak Response = 64282619 M4

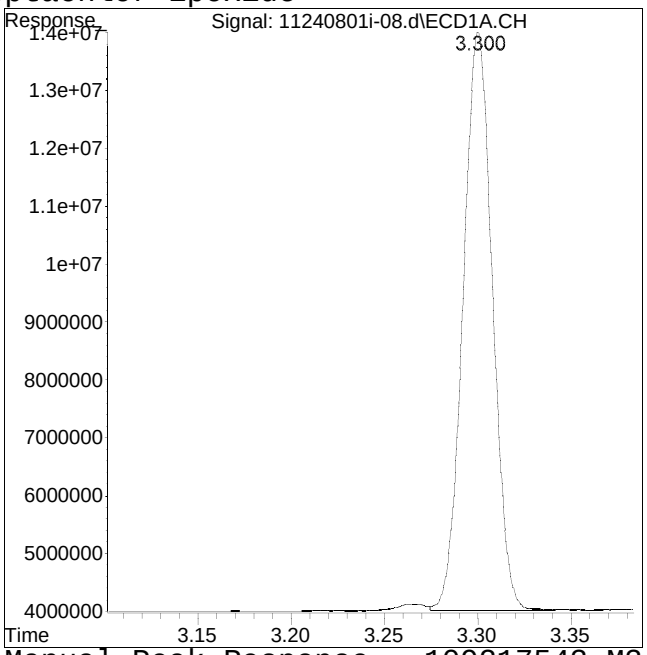
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #12: Heptachlor Epoxide



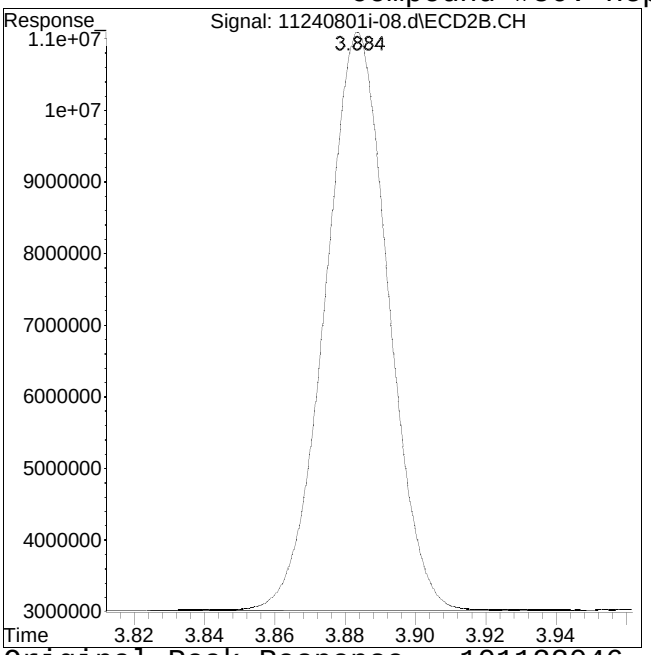


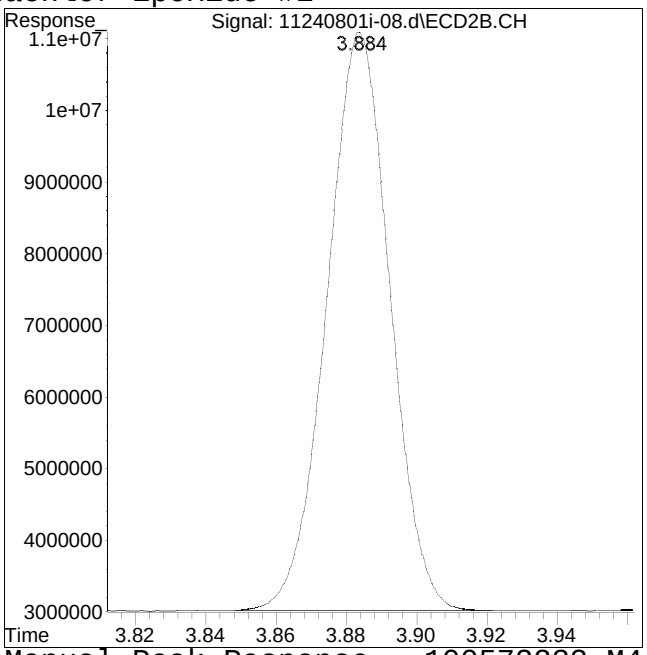
Original Peak Response = 111220065 Manual Peak Response = 109217543 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #50: Heptachlor Epoxide #2





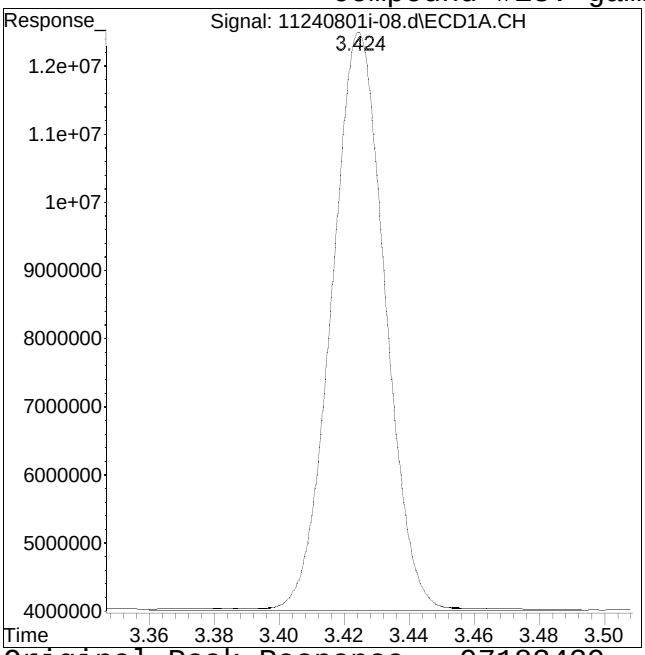
Original Peak Response = 101122046 Manual Peak Response = 100573233 M4
M4 = Poor automated baseline construction.

Manual Integration Report

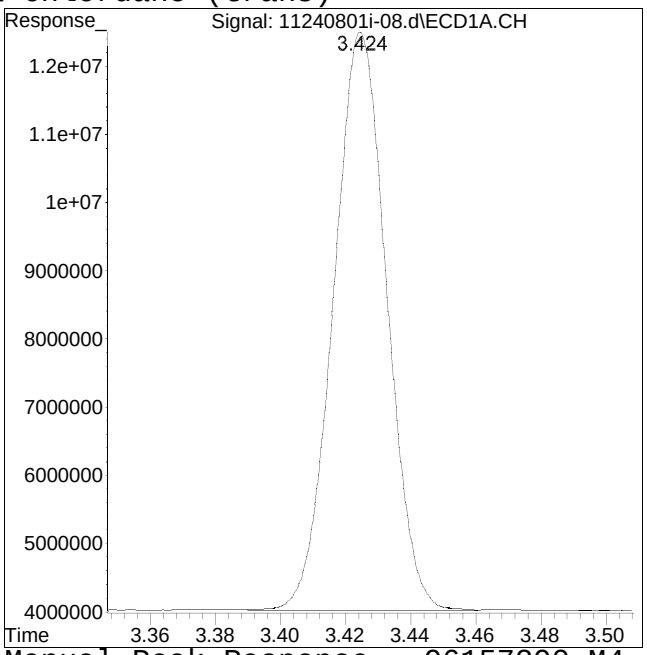
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 97183439



Manual Peak Response = 96157290 M4

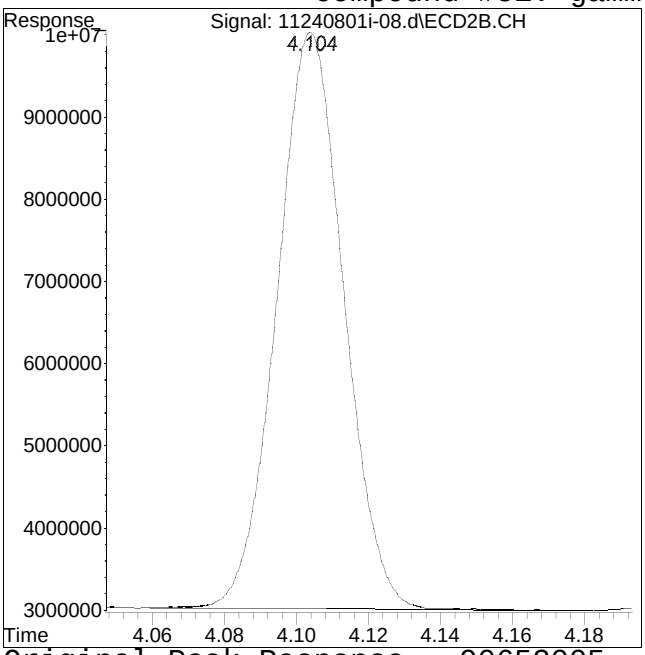
M4 = Poor automated baseline construction.

Manual Integration Report

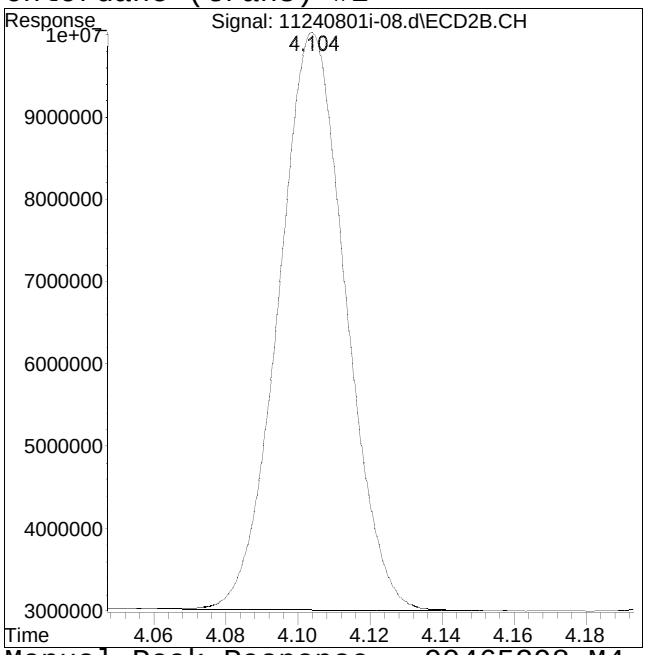
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 90652005



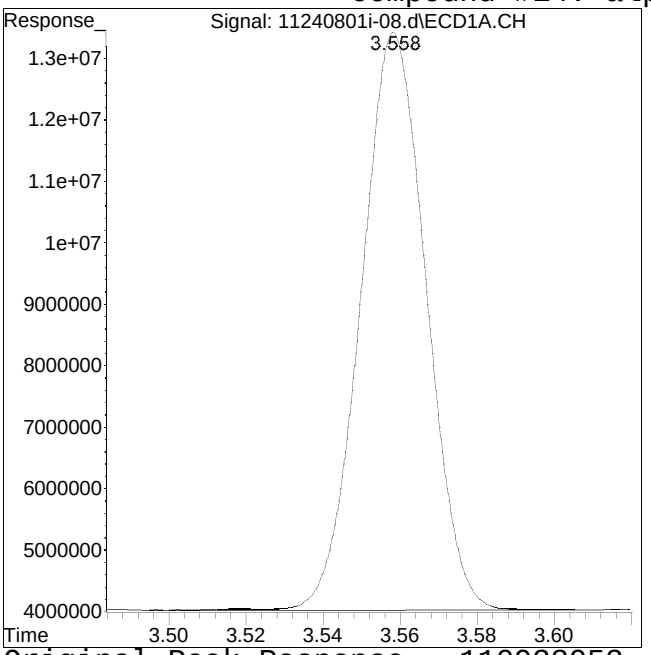
Manual Peak Response = 90465298 M4

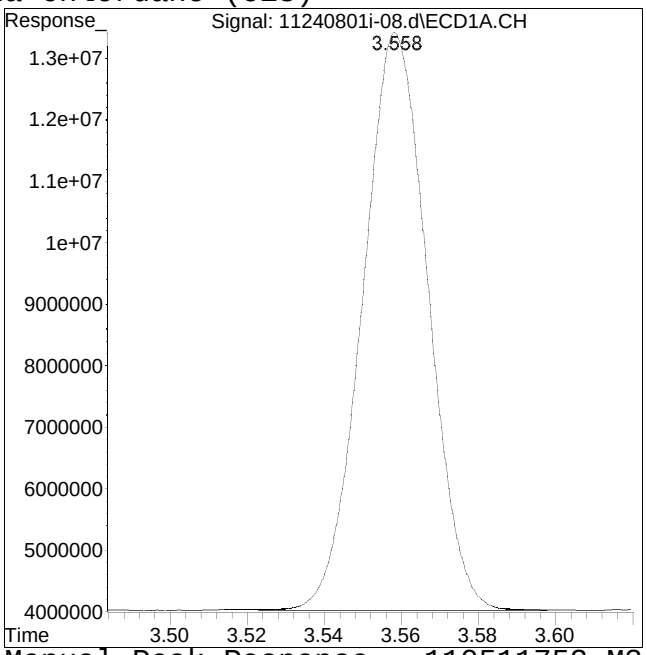
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #14: alpha-Chlordane (cis)



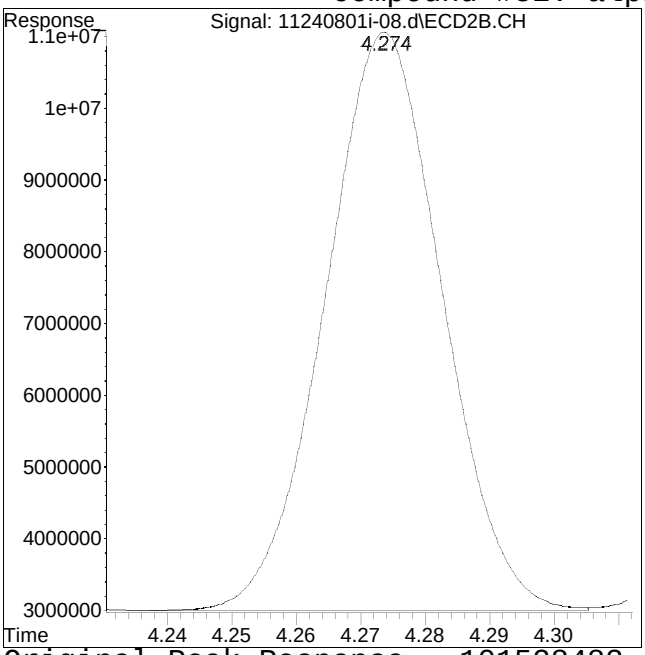


Original Peak Response = 110933953 Manual Peak Response = 110511752 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

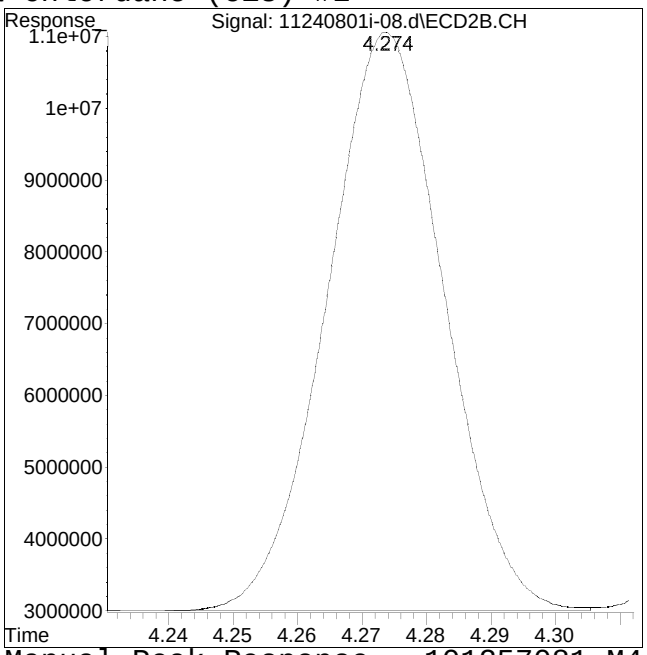
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 101528483



Manual Peak Response = 101257081 M4

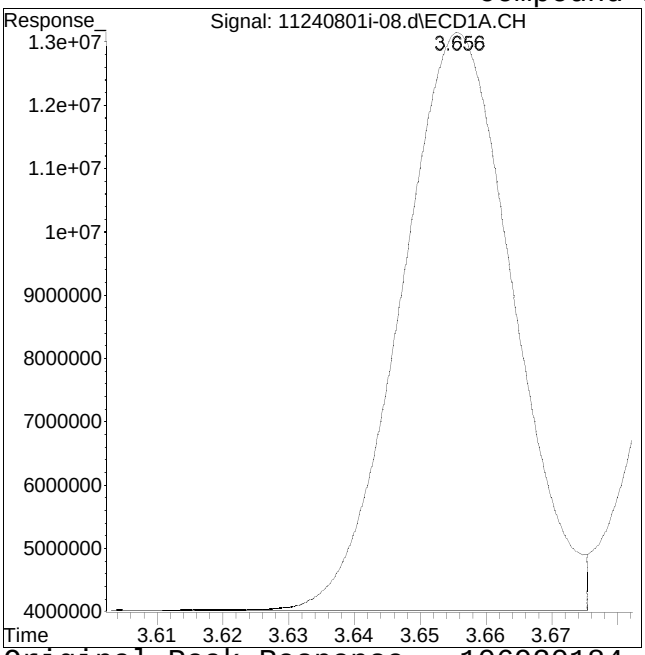
M4 = Poor automated baseline construction.

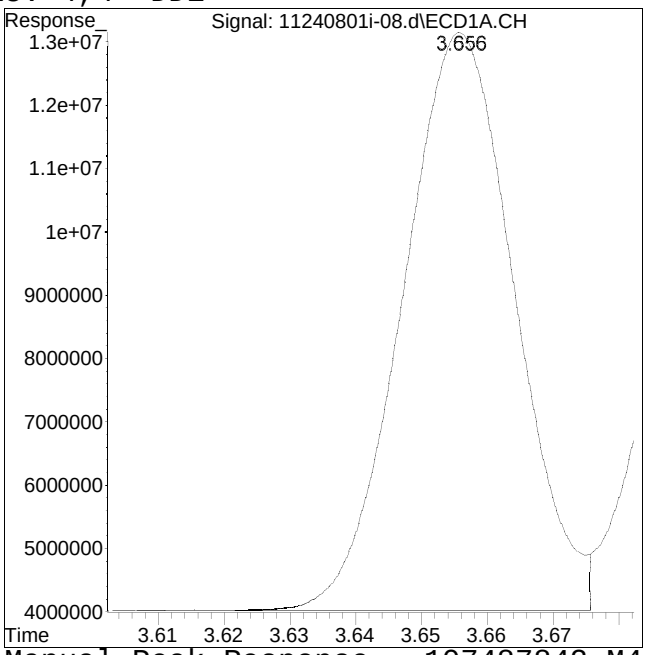
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #15: 4,4'-DDE





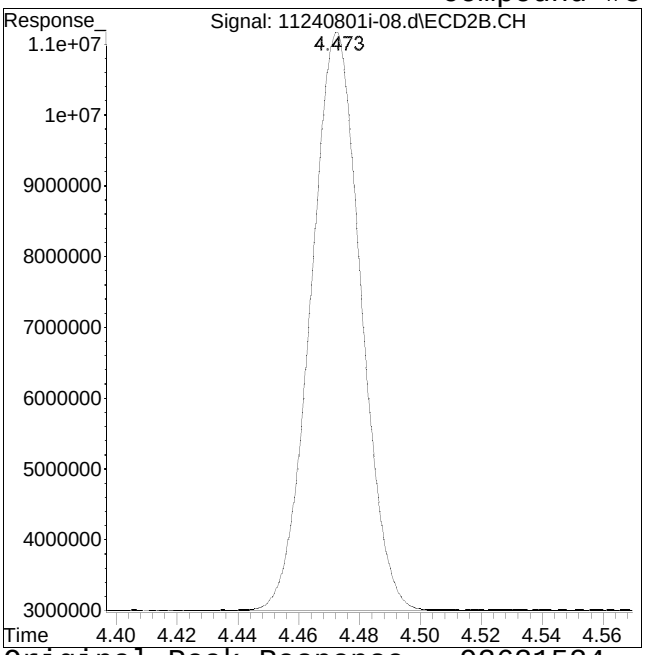
Original Peak Response = 106920184 Manual Peak Response = 107487842 M4
M4 = Poor automated baseline construction.

Manual Integration Report

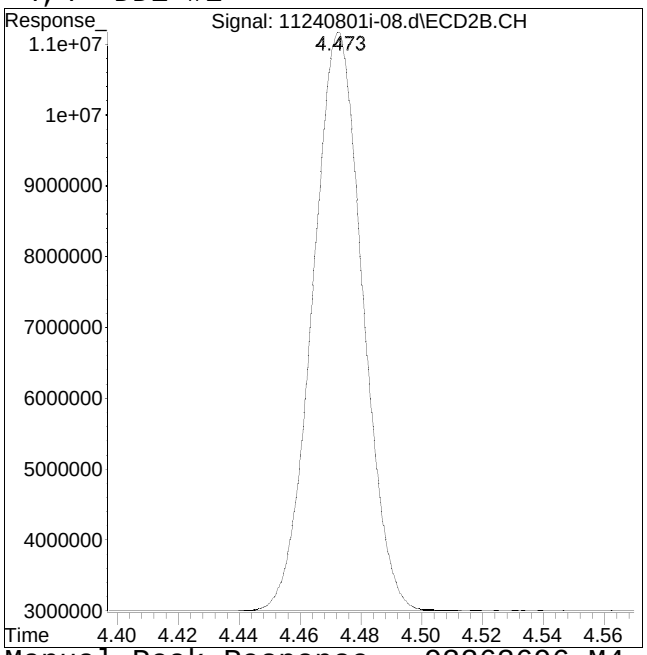
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 93631524



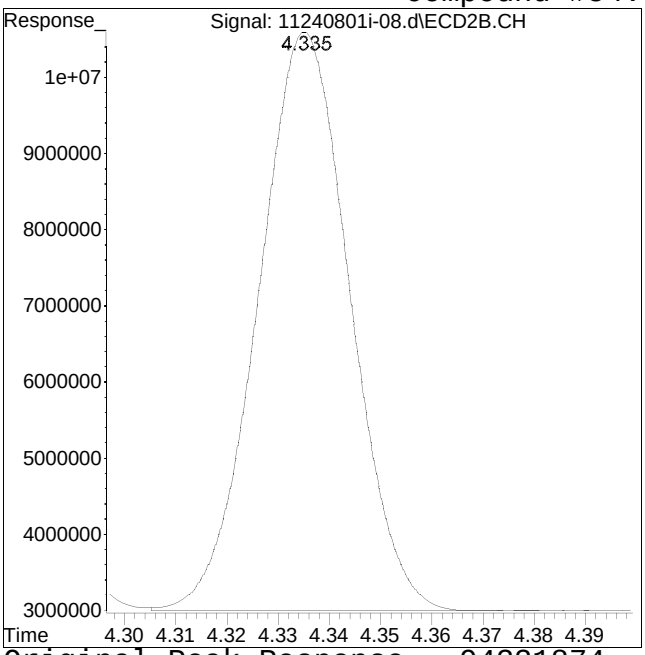
Manual Peak Response = 93263696 M4

M4 = Poor automated baseline construction.

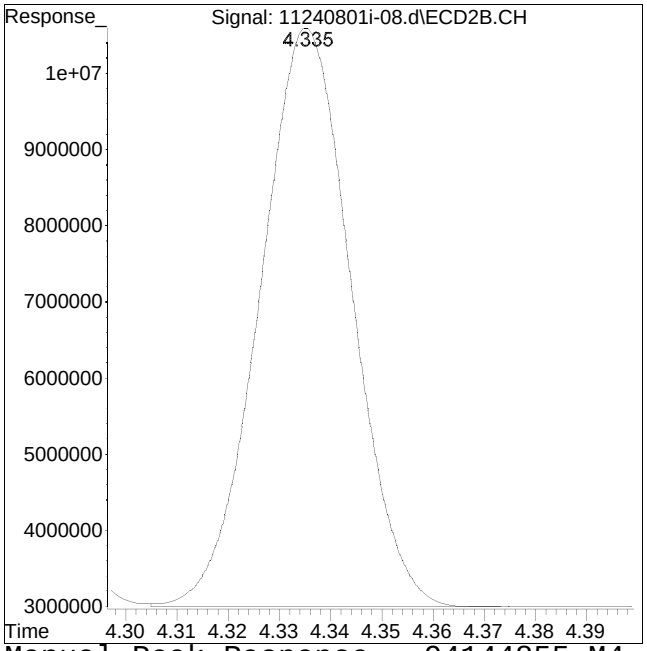
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #54: Endosulfan I #2



Original Peak Response = 94331874



Manual Peak Response = 94144855 M4

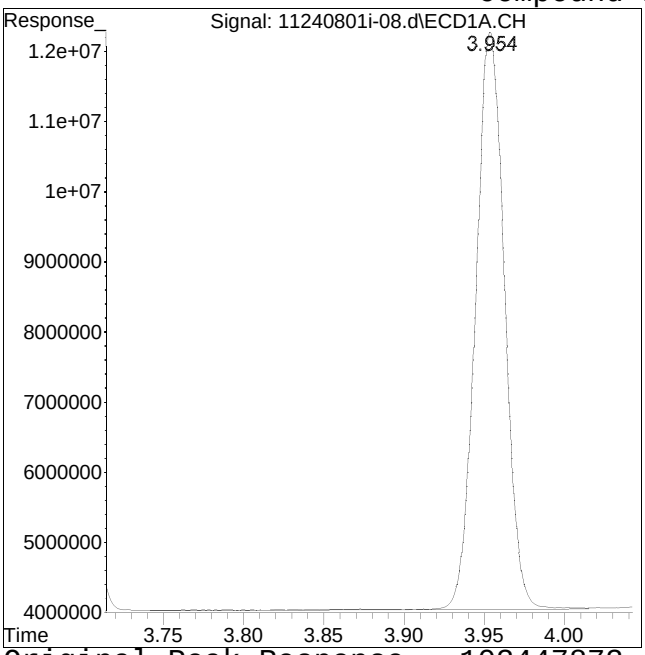
M4 = Poor automated baseline construction.

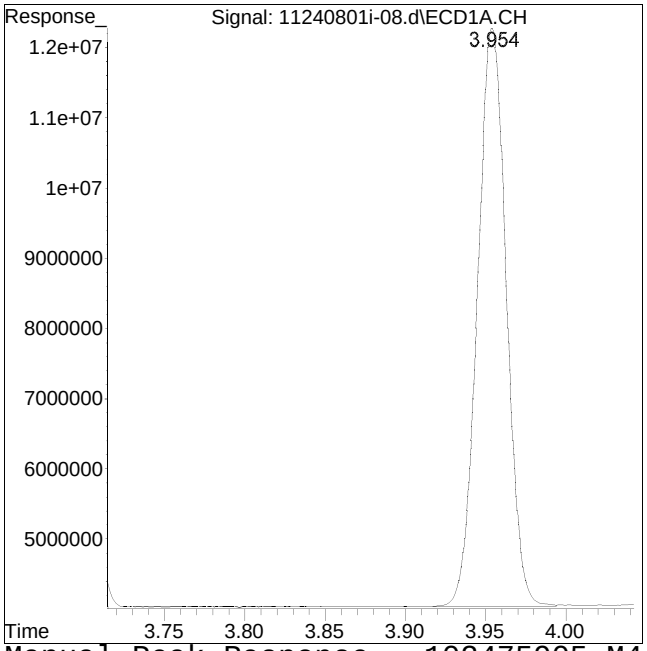
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #17: Dieldrin





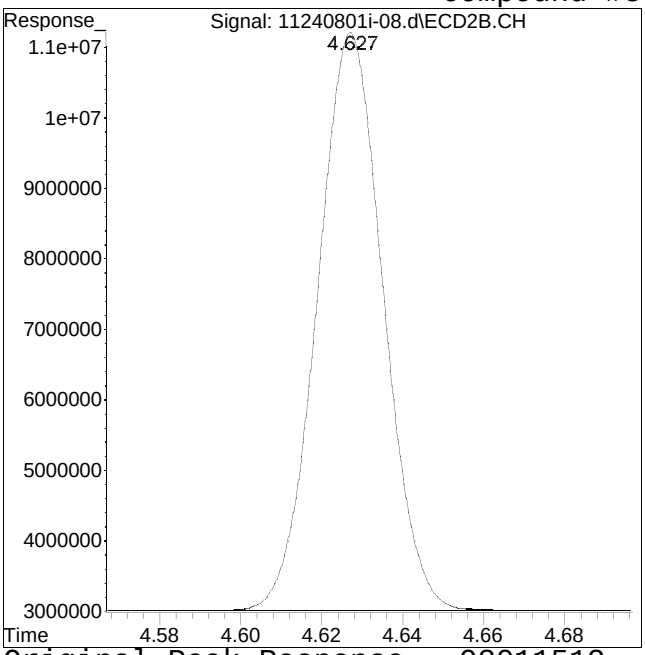
Original Peak Response = 103447873 Manual Peak Response = 102475905 M4
M4 = Poor automated baseline construction.

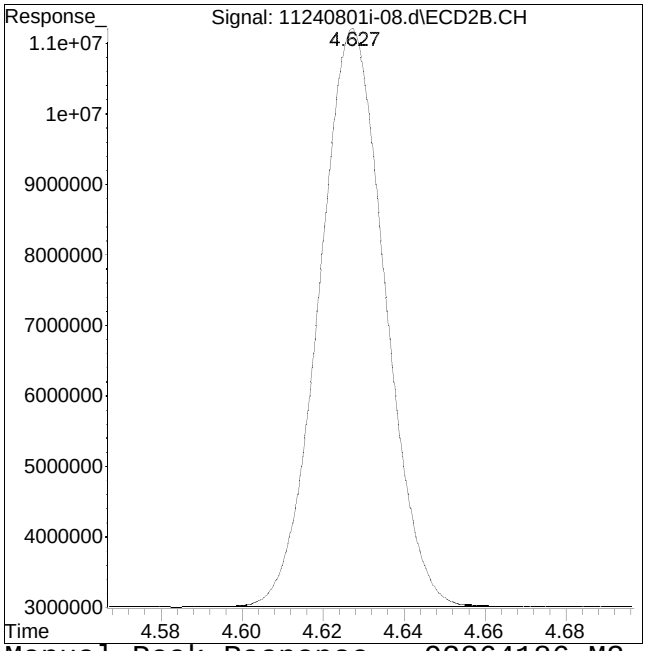
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #55: Dieldrin #2





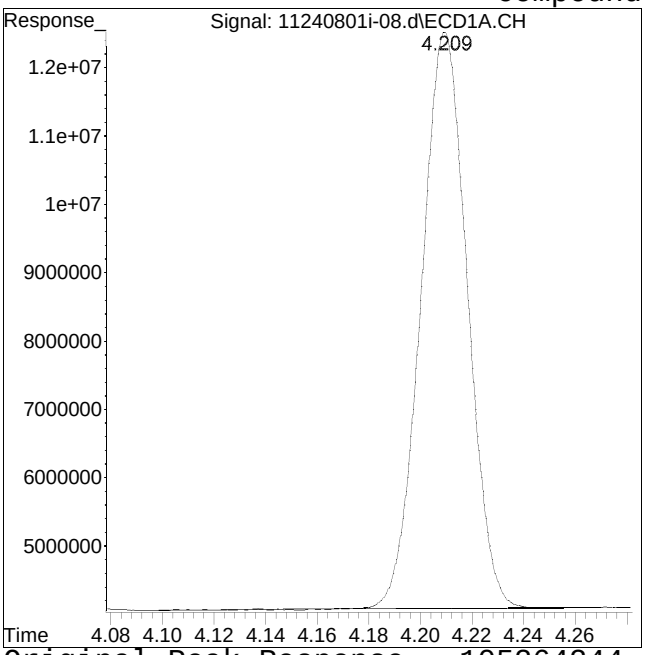
Original Peak Response = 93011512 Manual Peak Response = 92864186 M3

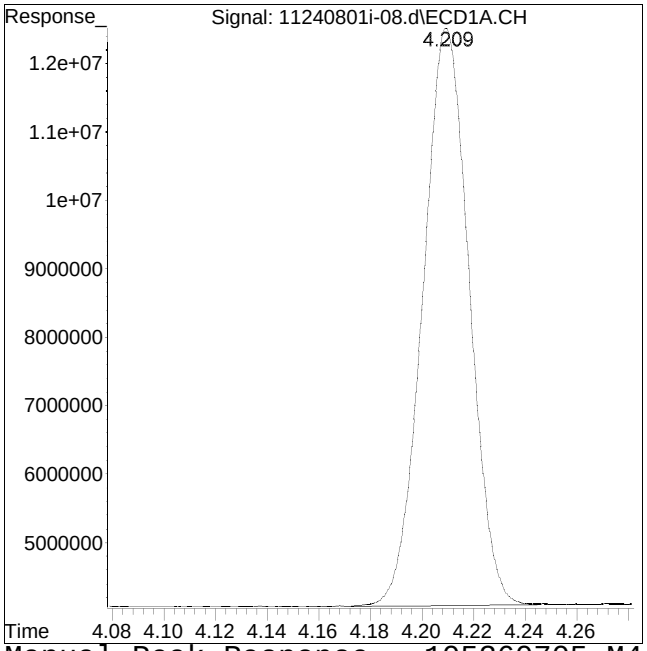
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #18: Endrin



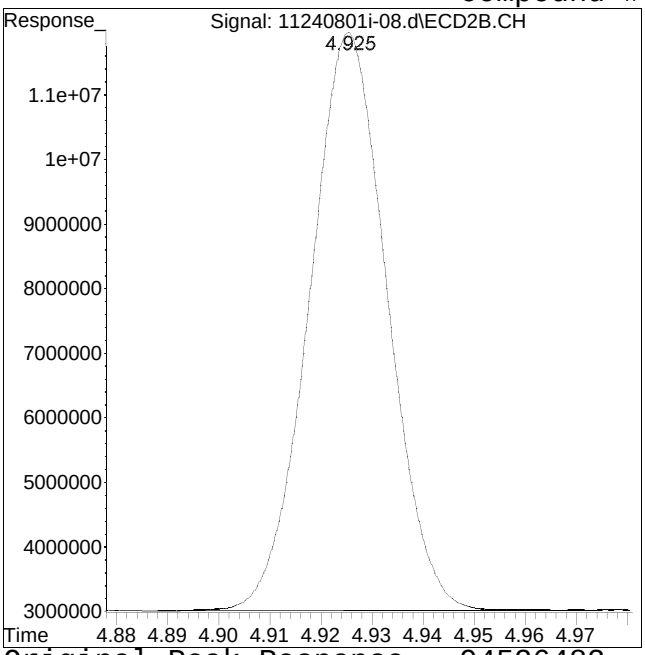


Original Peak Response = 105264244 Manual Peak Response = 105360705 M4
M4 = Poor automated baseline construction.

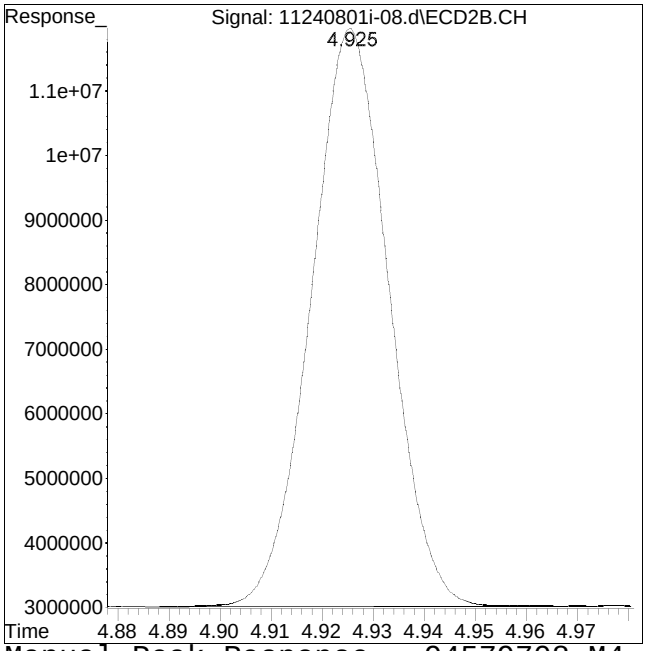
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #56: Endrin #2



Original Peak Response = 94526482



Manual Peak Response = 94579708 M4

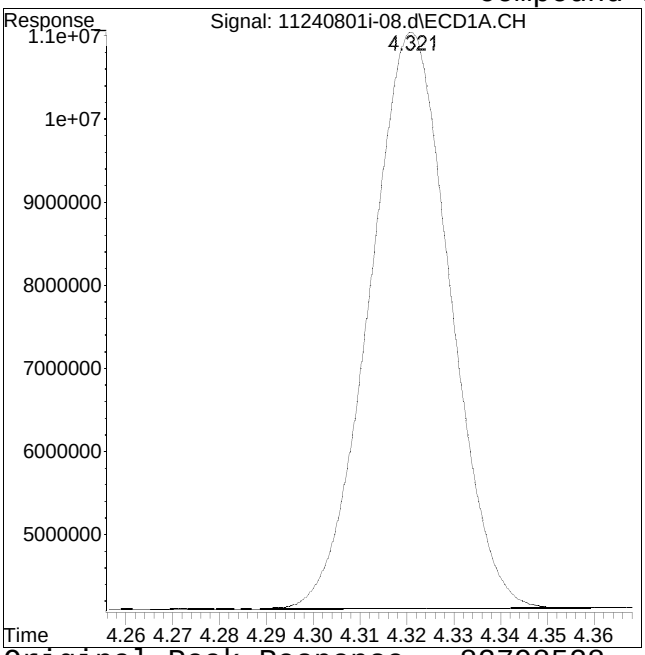
M4 = Poor automated baseline construction.

Manual Integration Report

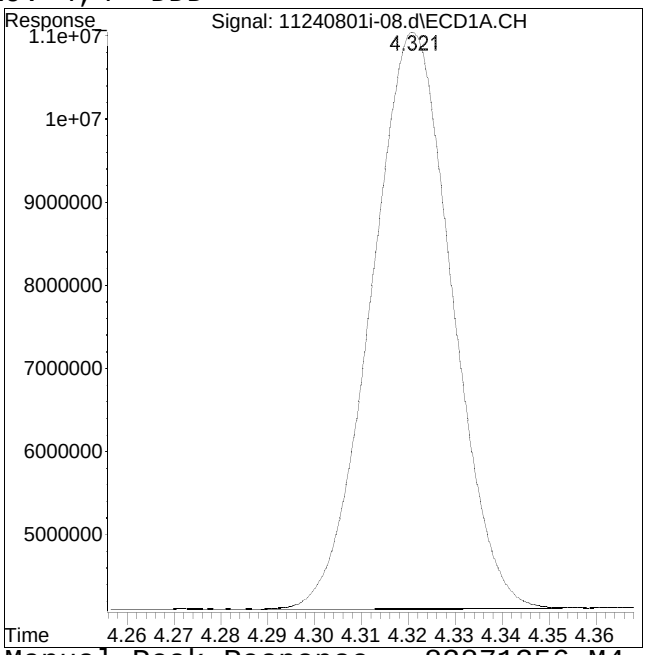
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #19: 4,4'-DDD



Original Peak Response = 82798528



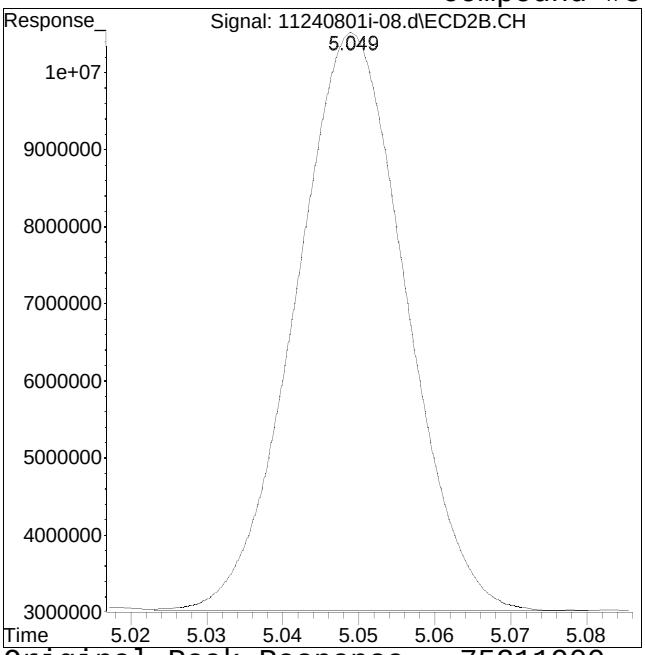
Manual Peak Response = 82871356 M4

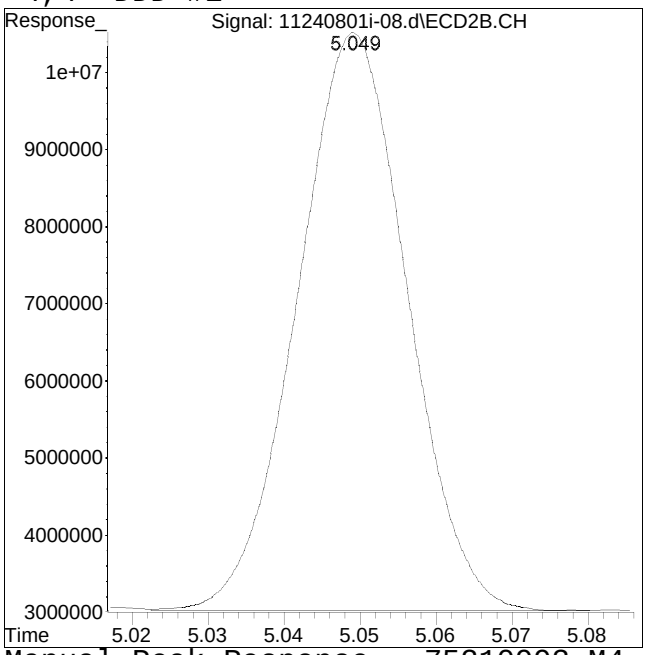
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #57: 4,4'-DDD #2





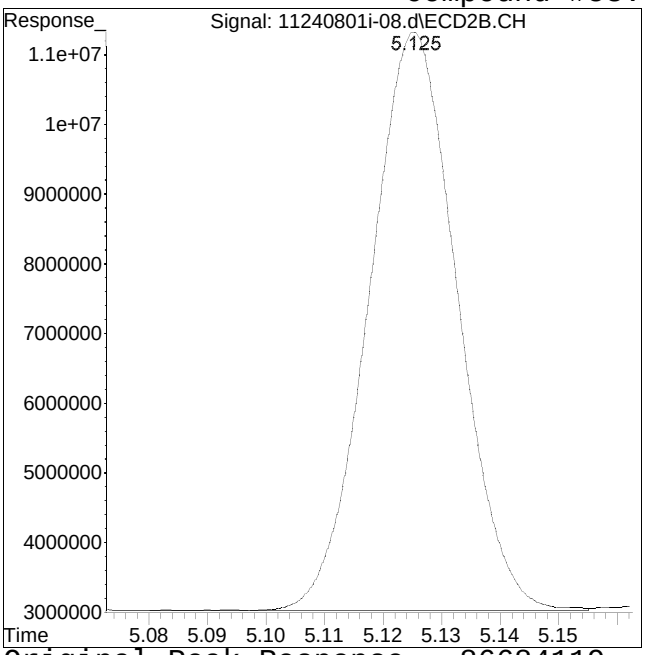
Original Peak Response = 75211900 Manual Peak Response = 75210993 M4
M4 = Poor automated baseline construction.

Manual Integration Report

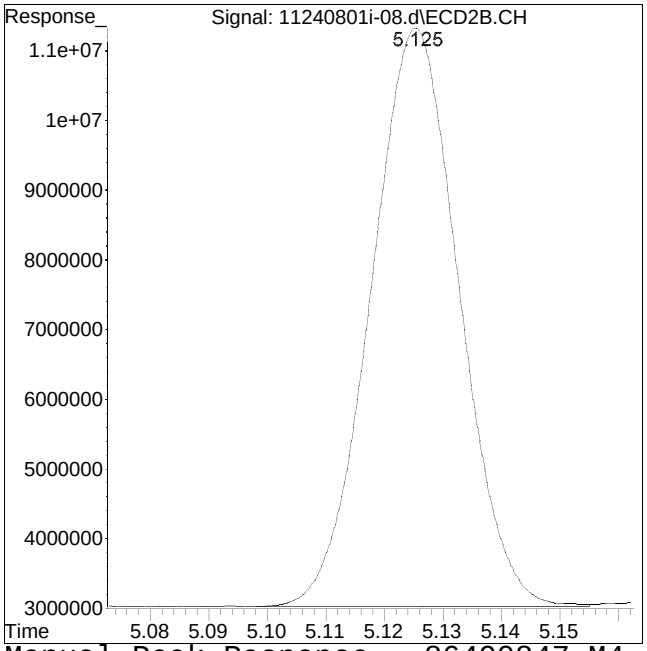
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #58: Endosulfan II #2



Original Peak Response = 86684119



Manual Peak Response = 86490847 M4

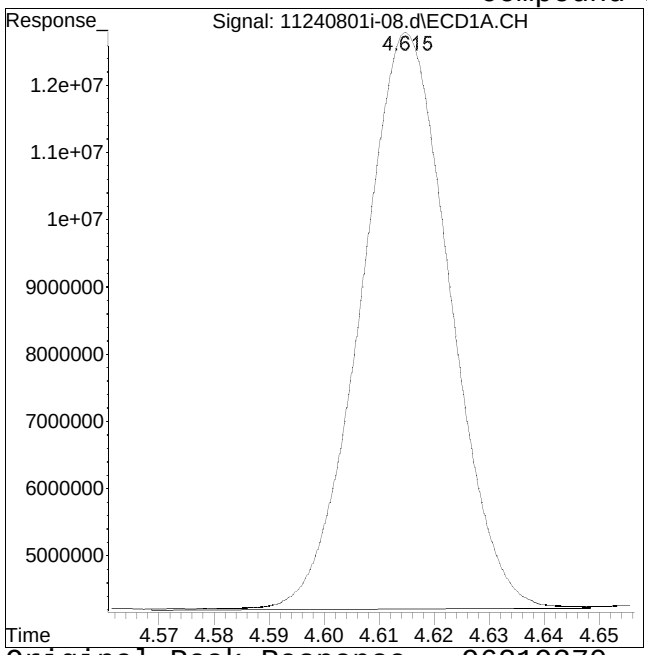
M4 = Poor automated baseline construction.

Manual Integration Report

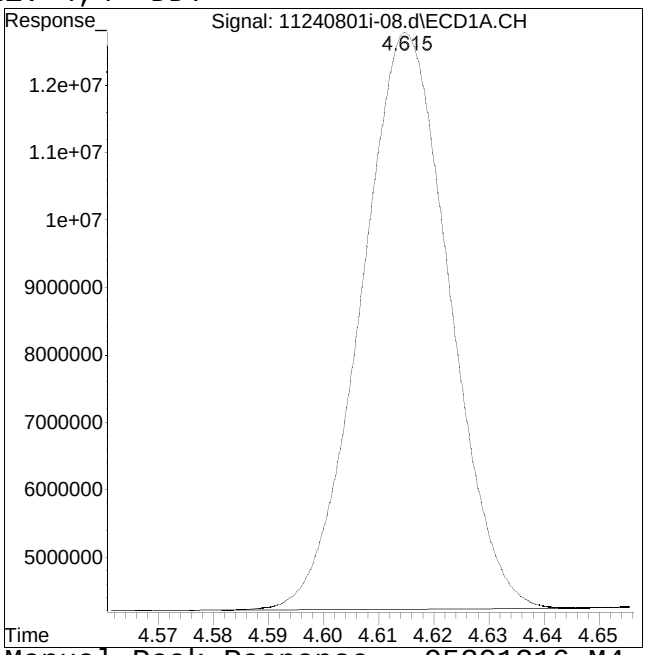
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #21: 4,4'-DDT



Original Peak Response = 96219270



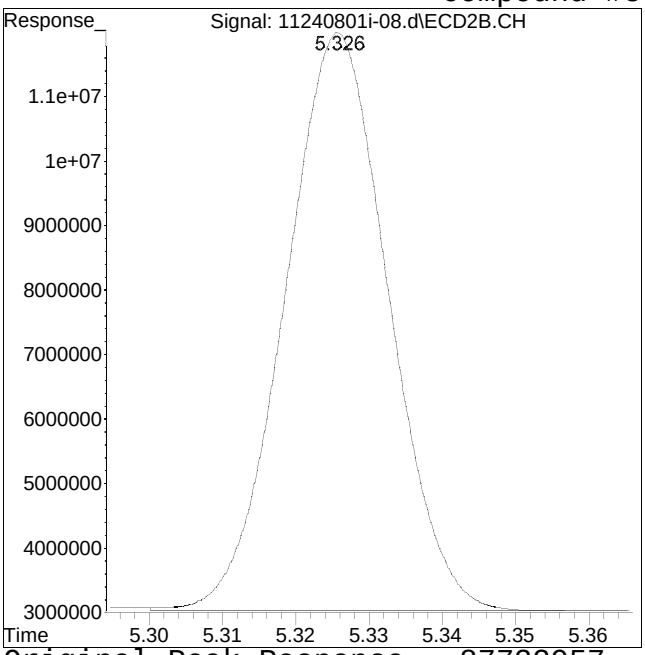
Manual Peak Response = 95391216 M4

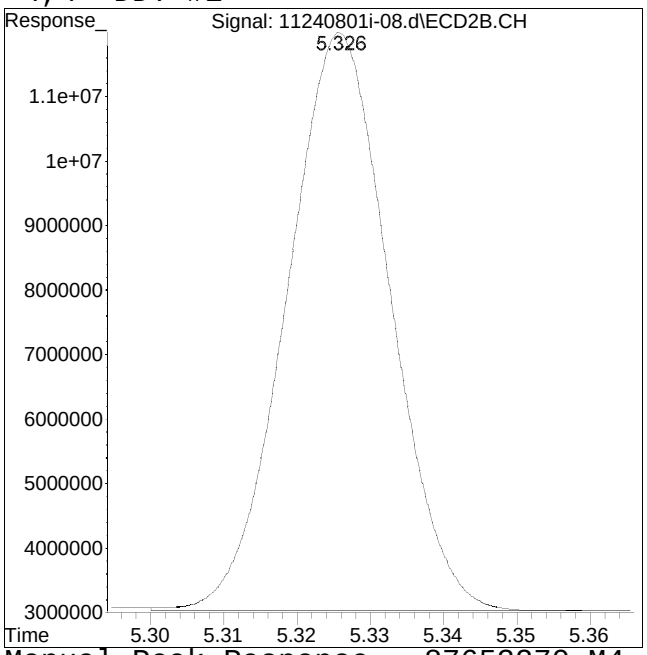
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #59: 4,4'-DDT #2



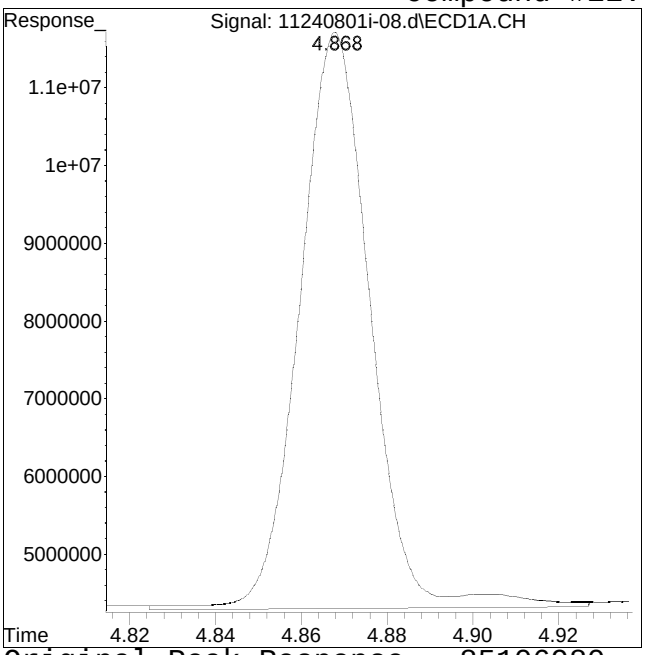


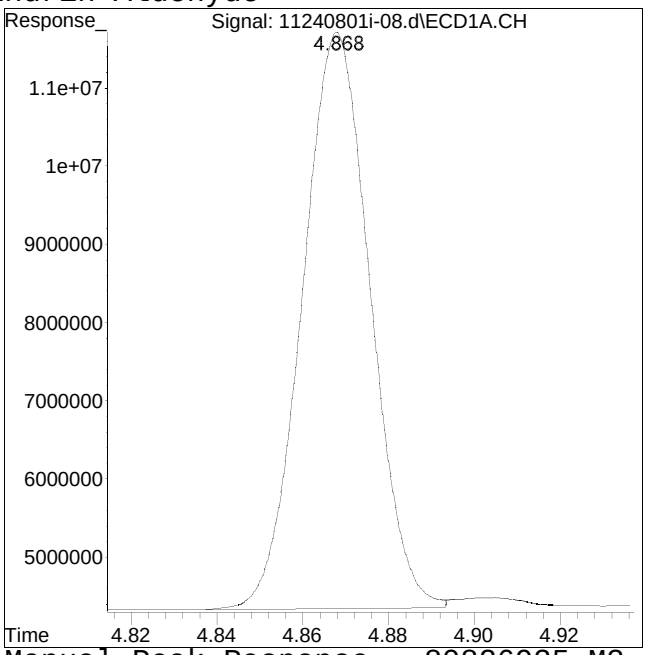
Original Peak Response = 87732957 Manual Peak Response = 87653270 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #22: Endrin Aldehyde



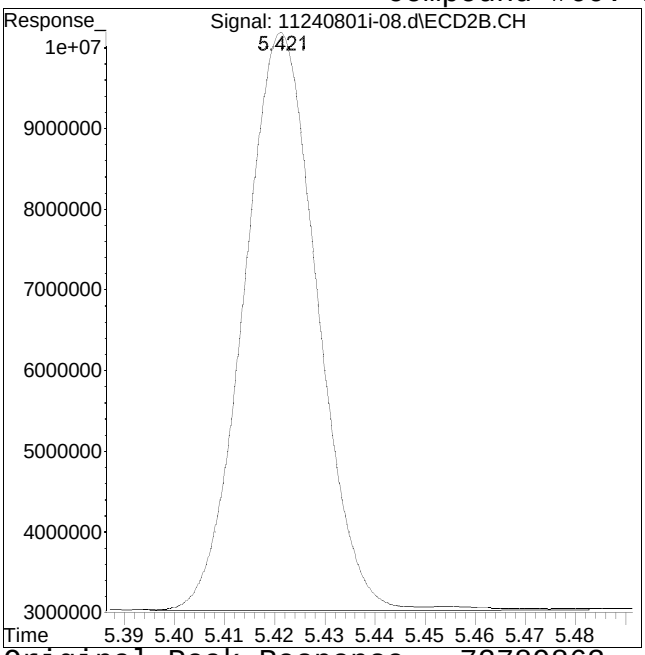


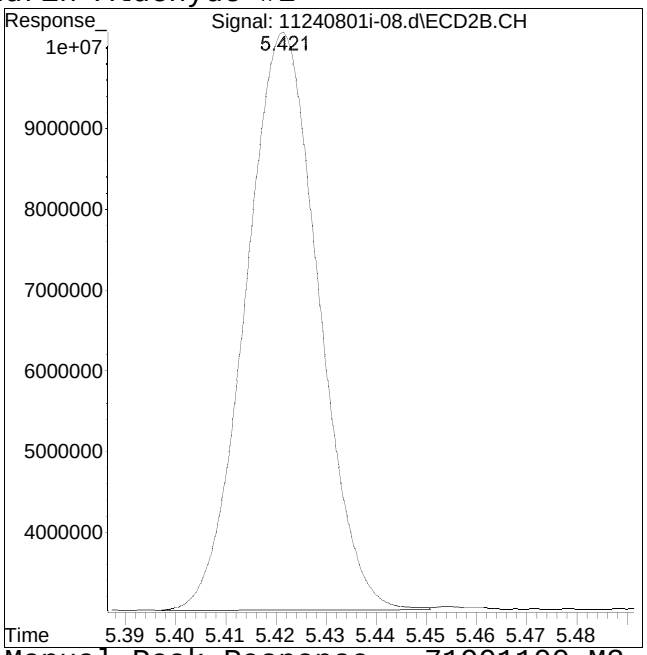
Original Peak Response = 85106980 Manual Peak Response = 80826935 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #60: Endrin Aldehyde #2





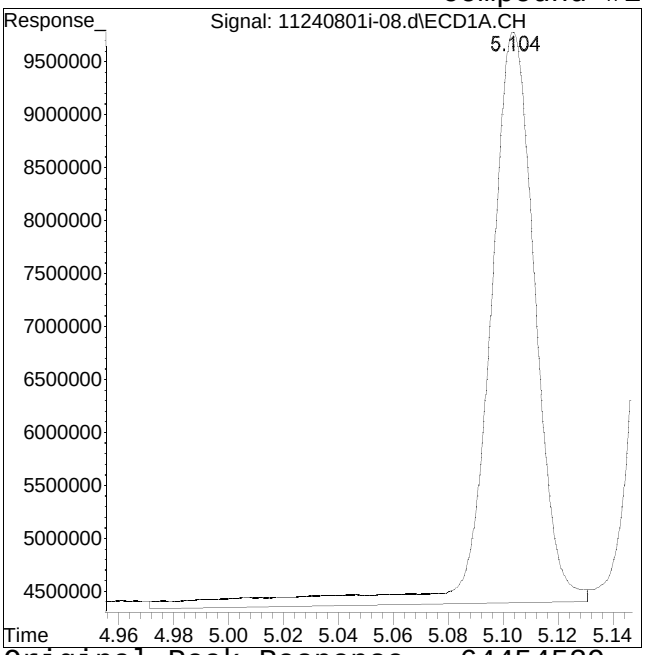
Original Peak Response = 72789863 Manual Peak Response = 71991100 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

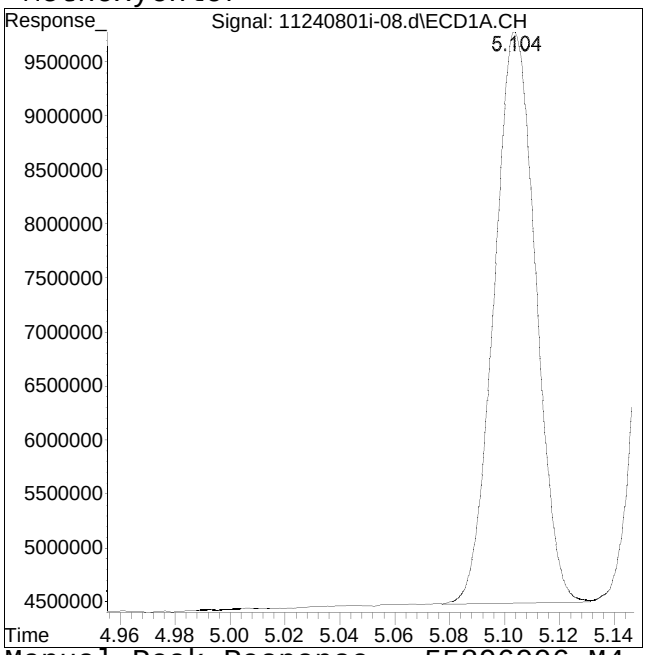
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #23: Methoxychlor



Original Peak Response = 64454539



Manual Peak Response = 55896006 M4

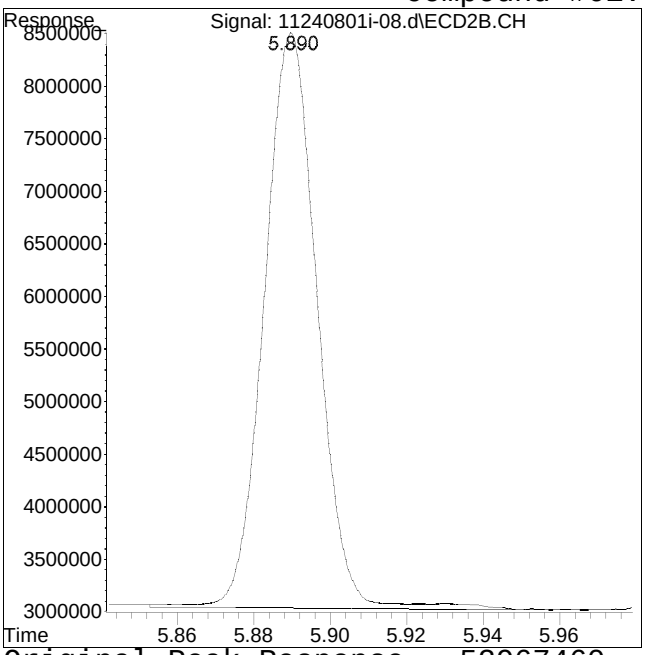
M4 = Poor automated baseline construction.

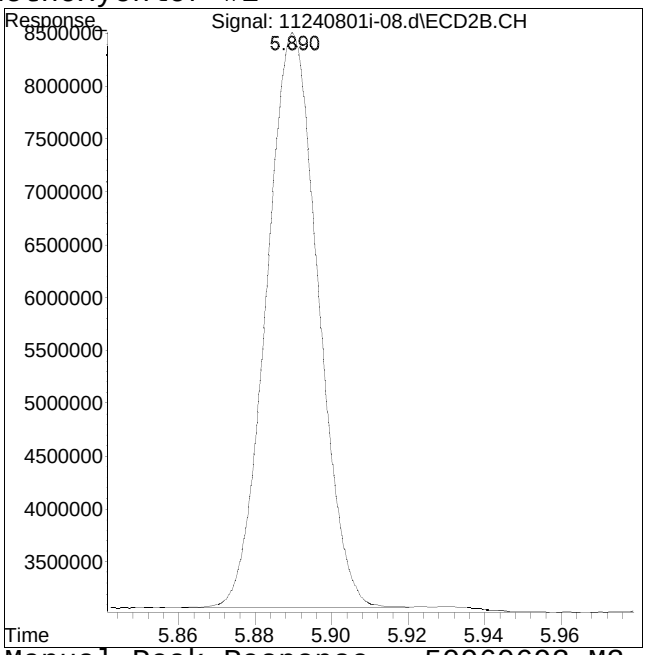
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #61: Methoxychlor #2





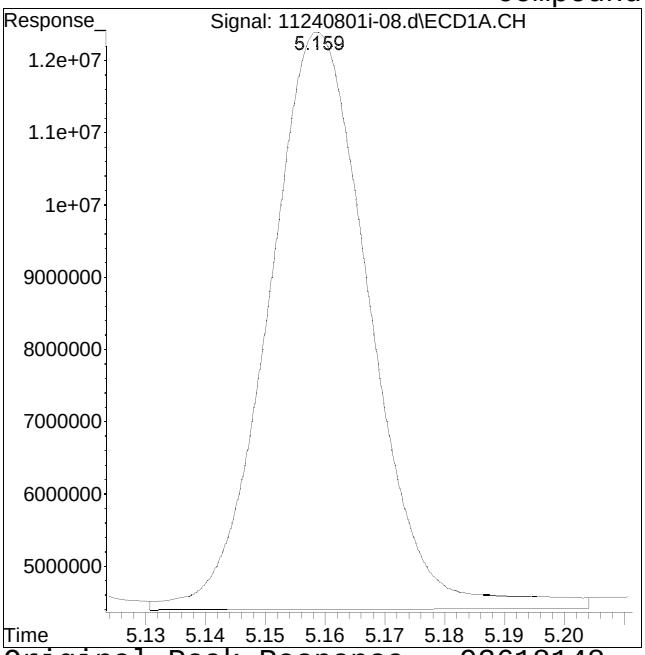
Original Peak Response = 52967460 Manual Peak Response = 50960693 M3

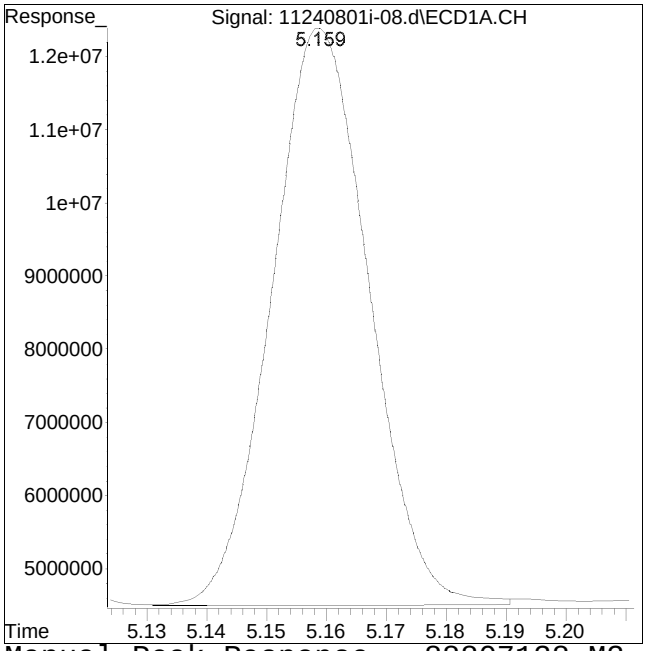
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #24: Mirex



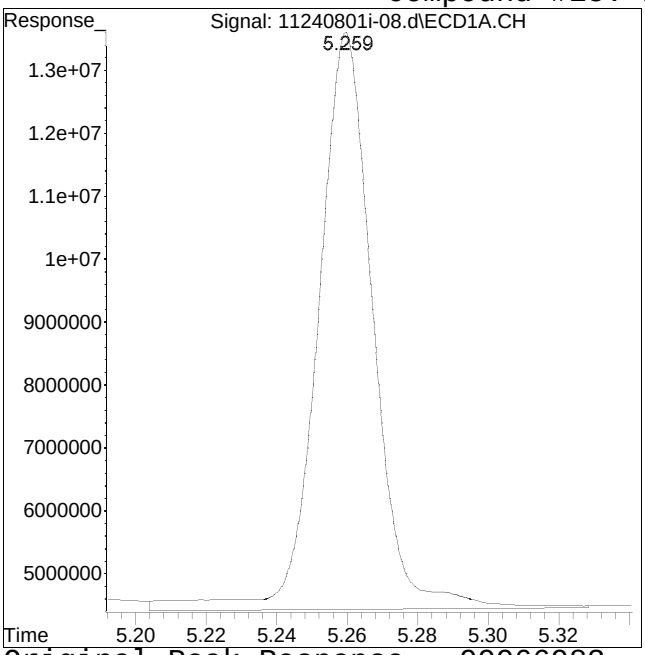


Original Peak Response = 93618148 Manual Peak Response = 88807138 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

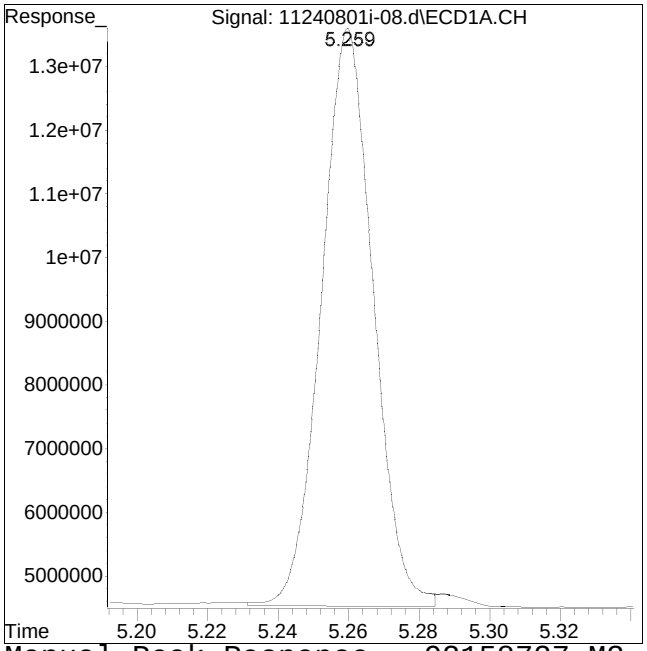
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 99966983



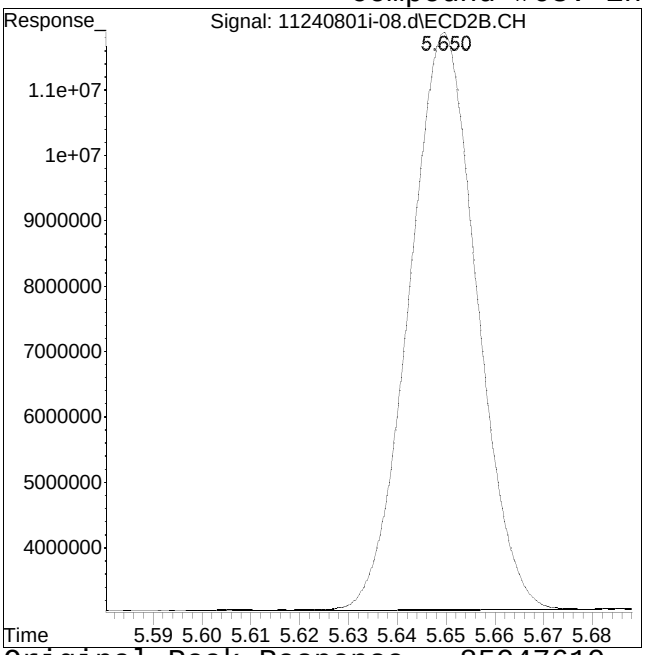
Manual Peak Response = 92158727 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

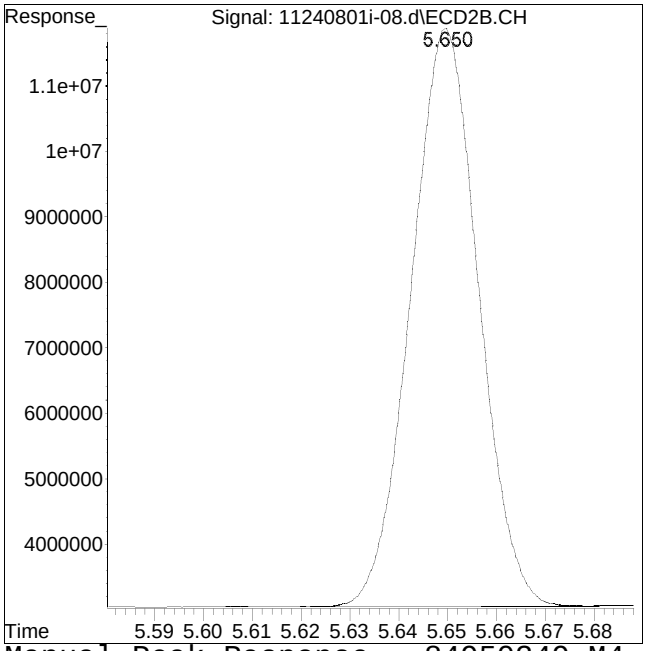
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 85047610

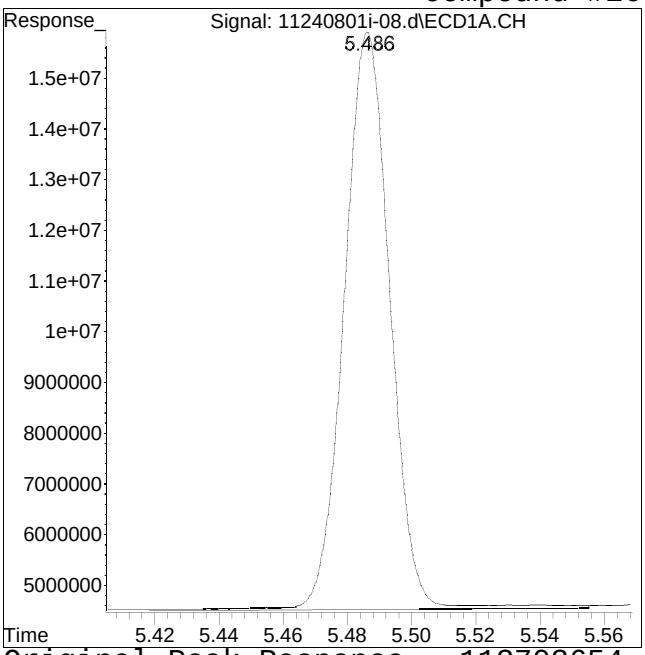


Manual Peak Response = 84950349 M4
M4 = Poor automated baseline construction.

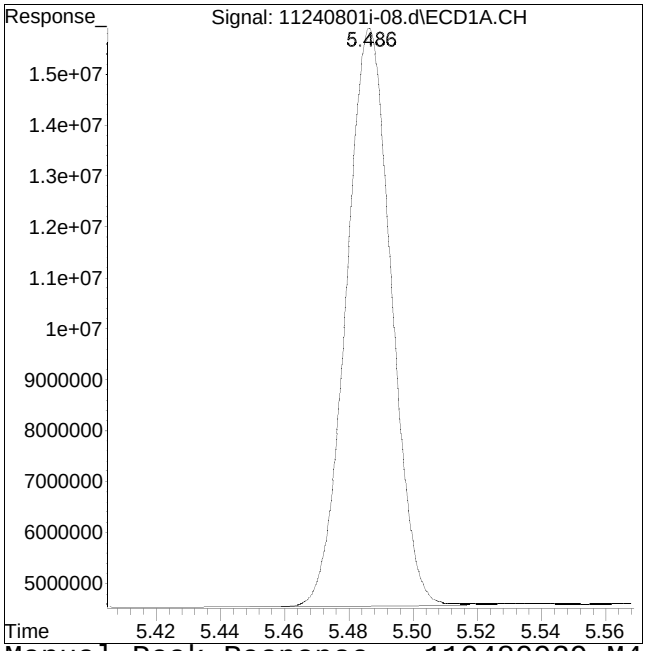
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #26: Endrin Ketone



Original Peak Response = 113703654



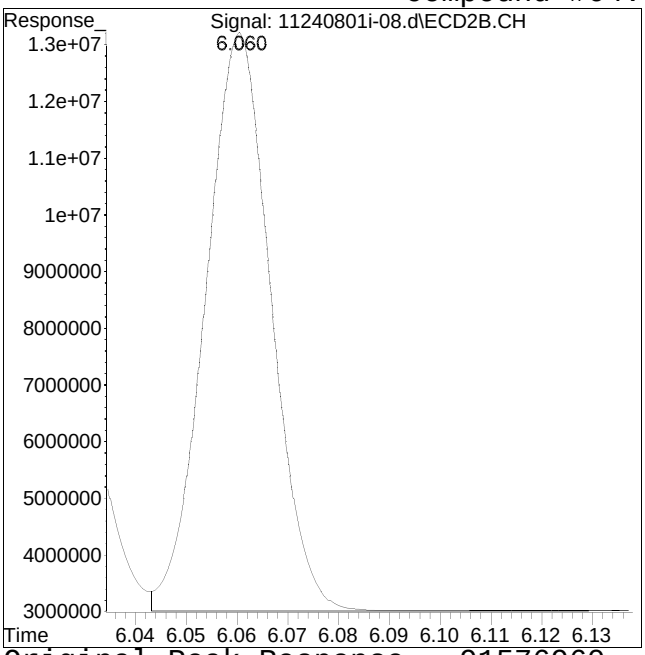
Manual Peak Response = 110480939 M4

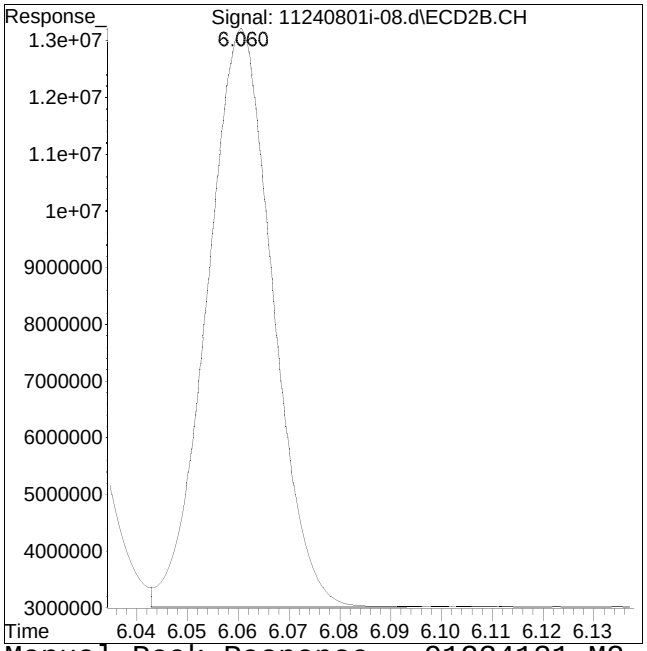
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #64: Endrin Ketone #2





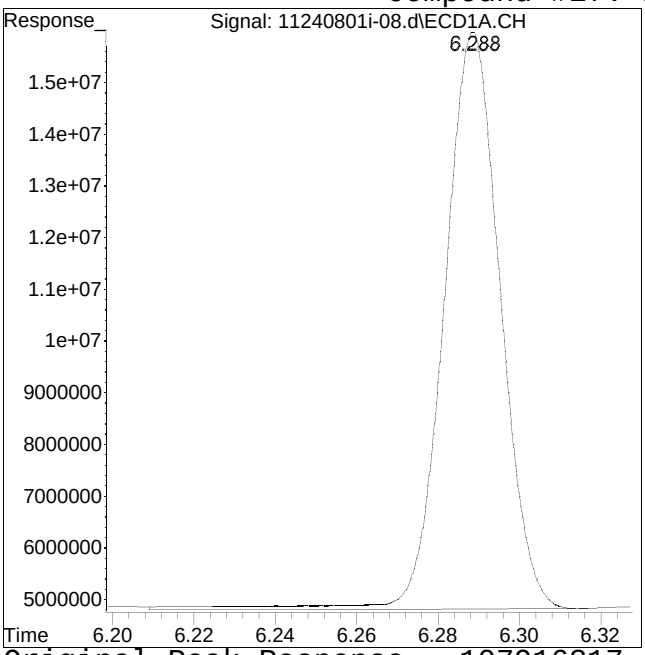
Original Peak Response = 91576960 Manual Peak Response = 91234131 M3

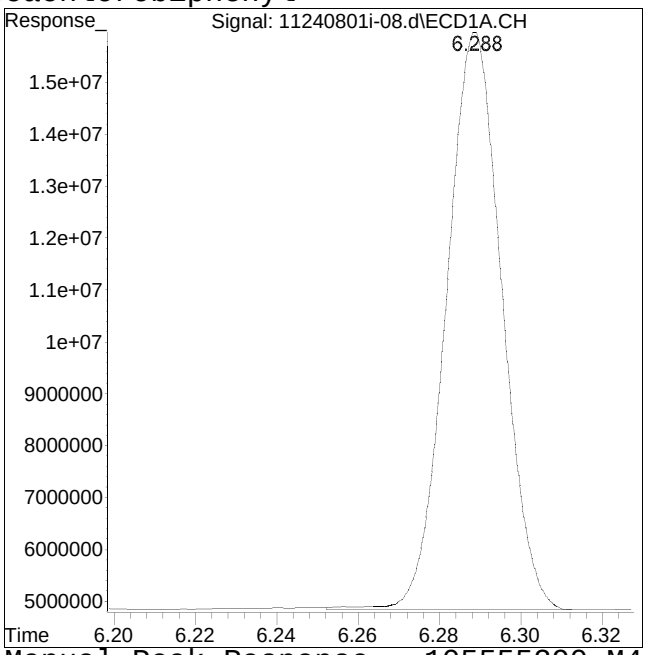
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-08.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:37 Instrument : Pest 11
Sample : il7pest,42e,,pp 11682 L0.0Quant Date : 8/2/2024 10:46 am

Compound #27: Decachlorobiphenyl





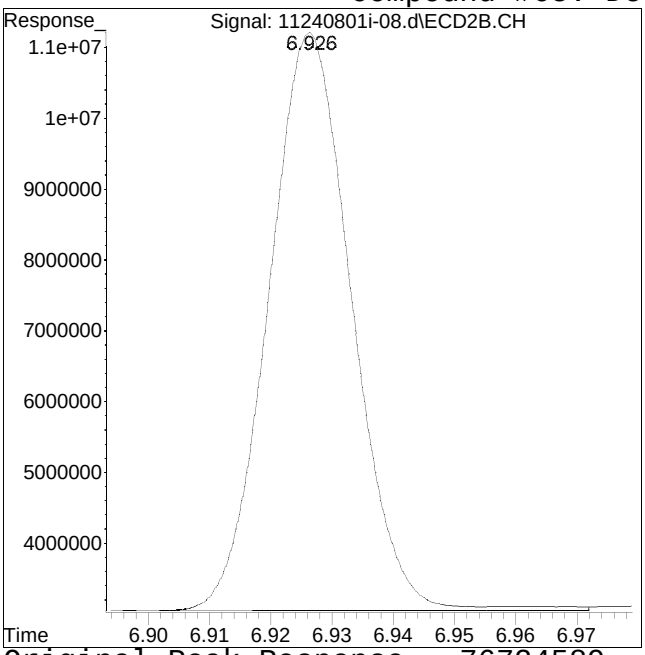
Original Peak Response = 107916317 Manual Peak Response = 105555290 M4
M4 = Poor automated baseline construction.

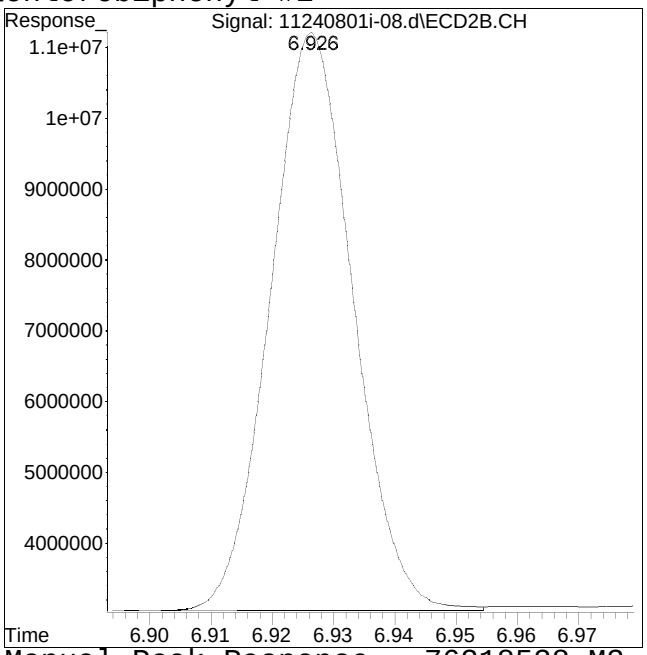
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-08.d
Date Inj'd : 8/1/2024 19:37
Sample : il7pest,42e,,pp 11682 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 10:46 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 76724589 Manual Peak Response = 76218538 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	236.1E6	187.7E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	492.0E6	407.5E6	NoCal M3	NoCal
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	6.288	6.920	489.2E6	351.4E6	NoCal M4	NoCal M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	634.9E6	430.2E6	NoCal M3	NoCal M4
4) t	alpha-BHC	1.963	2.271	745.5E6	633.1E6	NoCal M4	NoCal M4
5) t	gamma-BHC (l	2.165	2.556	687.9E6	572.6E6	NoCal M4	NoCal M4
6) t	beta-BHC	2.221	2.622	286.7E6	241.2E6	NoCal M4	NoCal M3
7) t	delta-BHC	2.350	2.889	694.2E6	581.2E6	NoCal M4	NoCal M4
8) t	Heptachlor	2.513	2.952	641.1E6	583.2E6	NoCal M4	NoCal M4
9) t	Aldrin	2.756	3.271	607.8E6	538.3E6	NoCal M4	NoCal M4
10) t	Alachlor	2.876	3.153	106.6E6	73985916	NoCal M4	NoCal M4
11) t	Chlorpyrifos	2.968	3.507	254.3E6	276.4E6	NoCal M4	NoCal

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.883	567.8E6	507.8E6	NoCal M3	NoCal M4
13)	t	gamma-Chlord	3.425	4.104	508.9E6	459.6E6	NoCal M4	NoCal M4
14)	t	alpha-Chlord	3.559	4.274	577.6E6	510.2E6	NoCal M3	NoCal M4
15)	t	4,4'-DDE	3.656	4.473	579.1E6	505.9E6	NoCal M4	NoCal M4
16)	t	Endosulfan I	3.695	4.336	533.8E6	473.2E6	NoCal M3	NoCal M4
17)	t	Dieldrin	3.955	4.628	554.2E6	490.0E6	NoCal M4	NoCal M4
18)	t	Endrin	4.210	4.926	563.1E6	497.8E6	NoCal	NoCal M4
19)	t	4,4'-DDD	4.322	5.049	451.2E6	402.1E6	NoCal	NoCal M4
20)	t	Endosulfan I	4.452	5.125	505.7E6	433.2E6	NoCal	NoCal M4
21)	t	4,4'-DDT	4.616	5.326	511.5E6	460.7E6	NoCal M4	NoCal M4
22)	t	Endrin Aldeh	4.868	5.421	414.1E6	353.4E6	NoCal M4	NoCal M3
23)	t	Methoxychlor	5.104	5.890	267.0E6	236.7E6	NoCal M4	NoCal M4
24)	t	Mirex	5.160	6.023	415.8E6	345.7E6	NoCal M3	NoCal M4
25)	t	Endosulfan S	5.260	5.649	466.7E6	415.6E6	NoCal M3	NoCal M3
26)	t	Endrin Keton	5.487	6.060	564.8E6	452.3E6	NoCal M4	NoCal M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

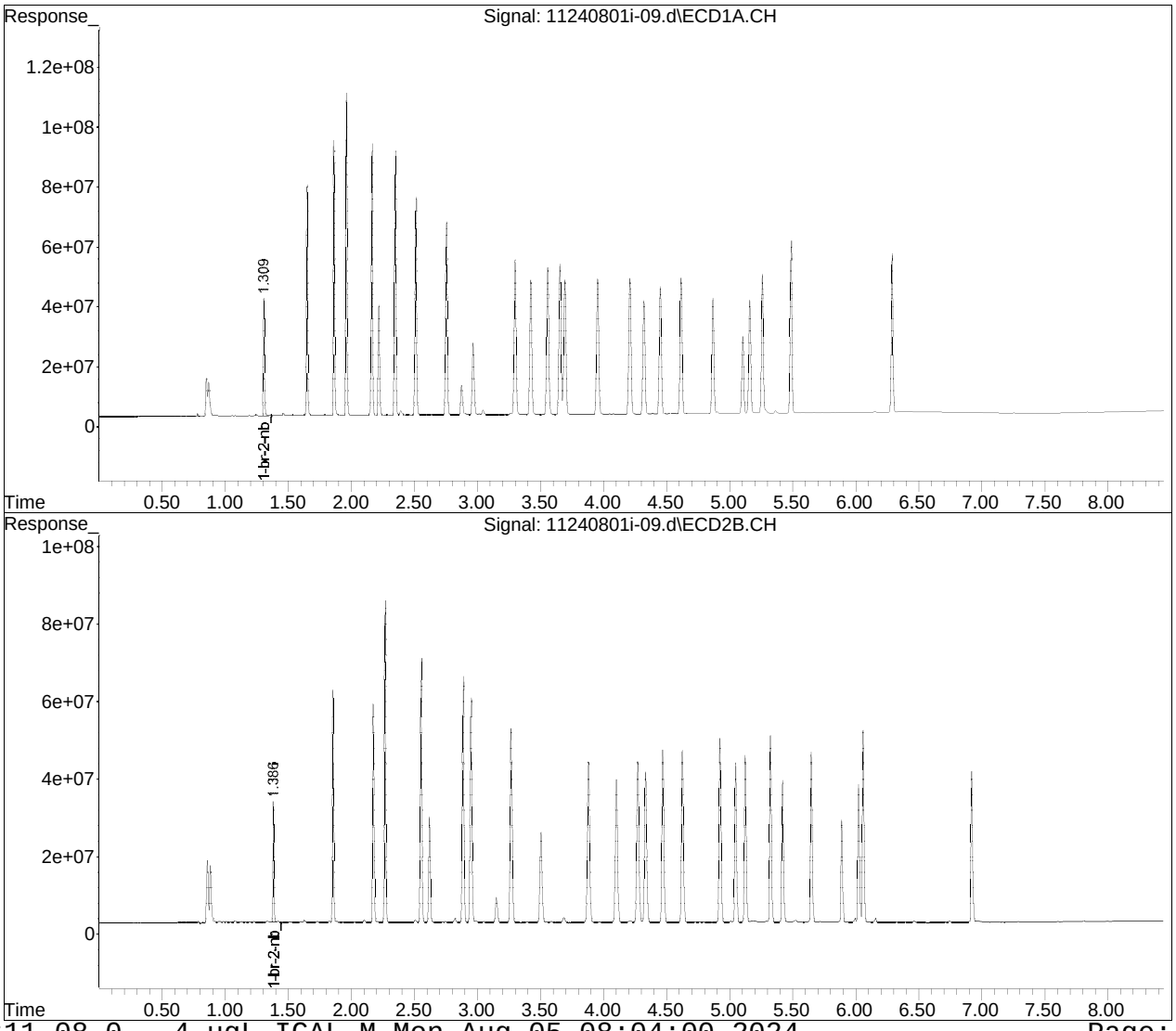
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 19:49
Operator : PEST11:ejl
Sample : il8pest,42e,,pp 11681 L0.05
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:03:26 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:03:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

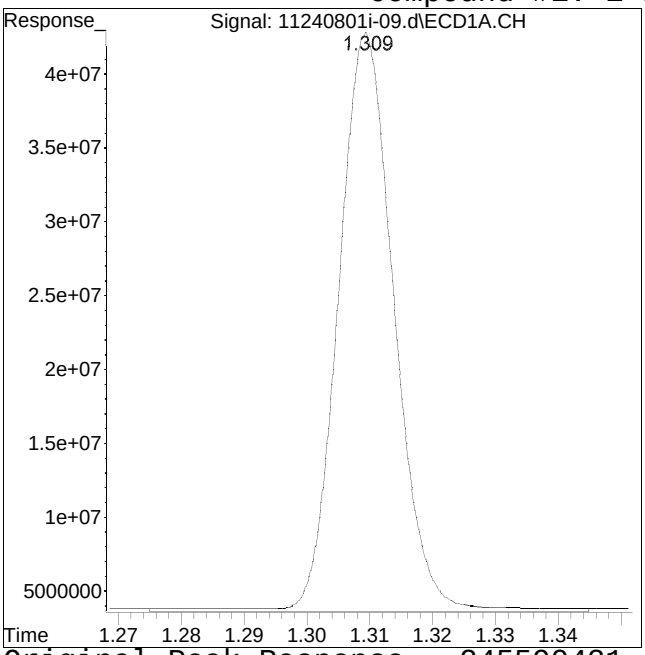


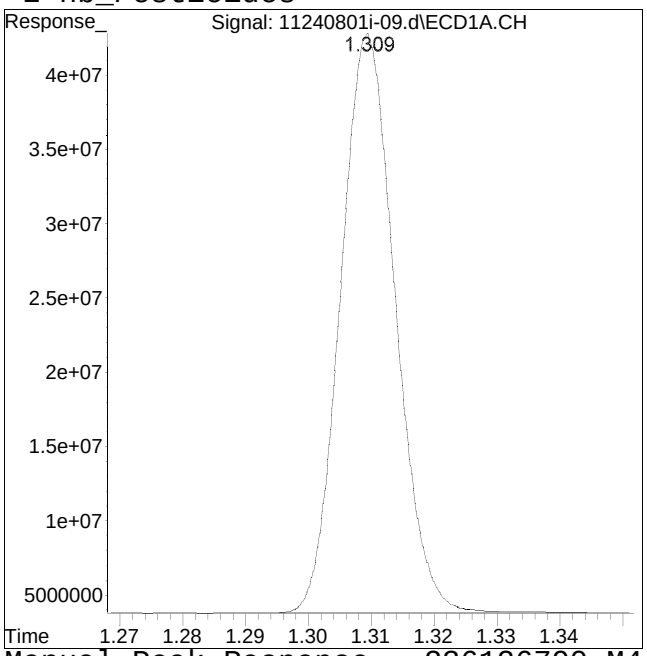
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #1: 1-br-2-nb_Pesticides





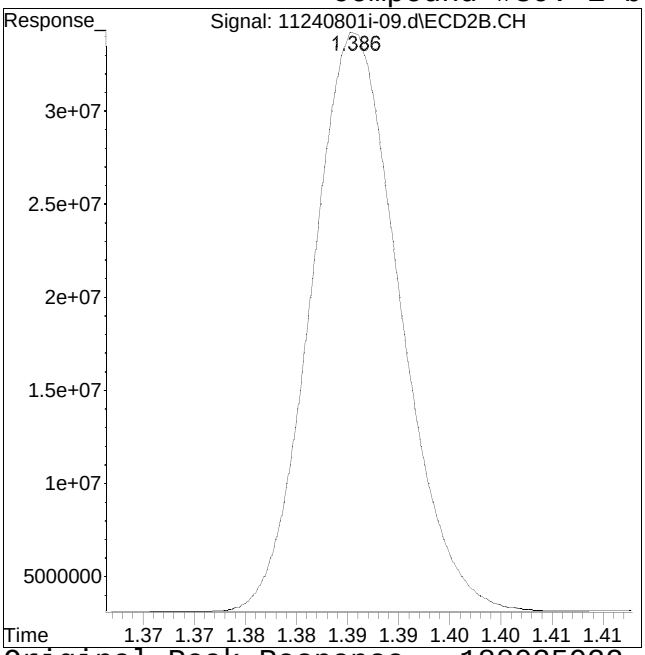
Original Peak Response = 245590421 Manual Peak Response = 236126790 M4
M4 = Poor automated baseline construction.

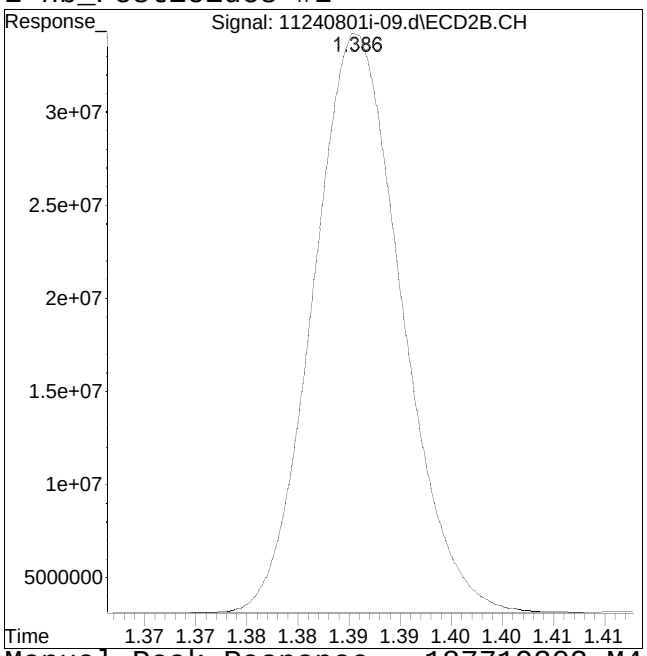
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #39: 1-br-2-nb_Pesticides #2



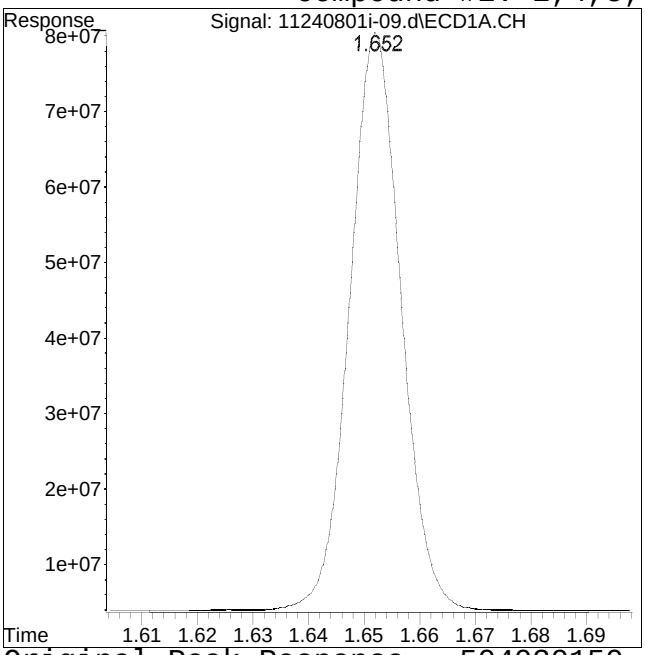


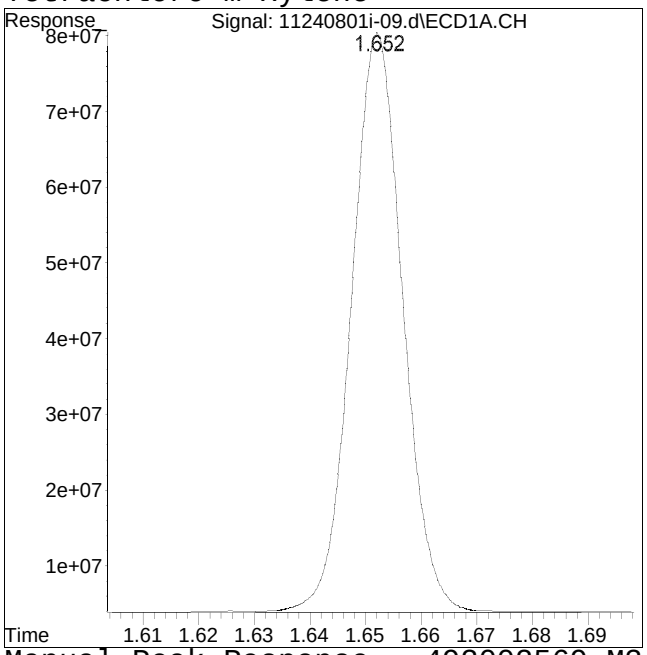
Original Peak Response = 188025922 Manual Peak Response = 187719302 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0 Quant Date : 8/2/2024 9:03 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



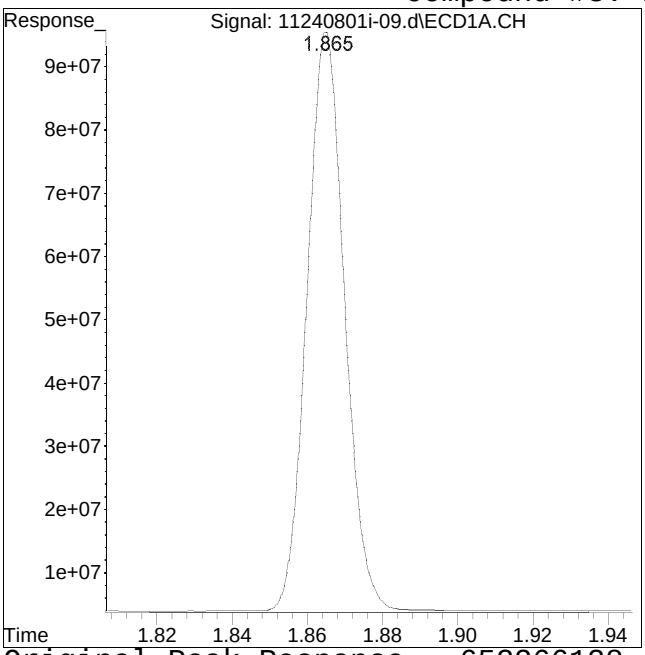


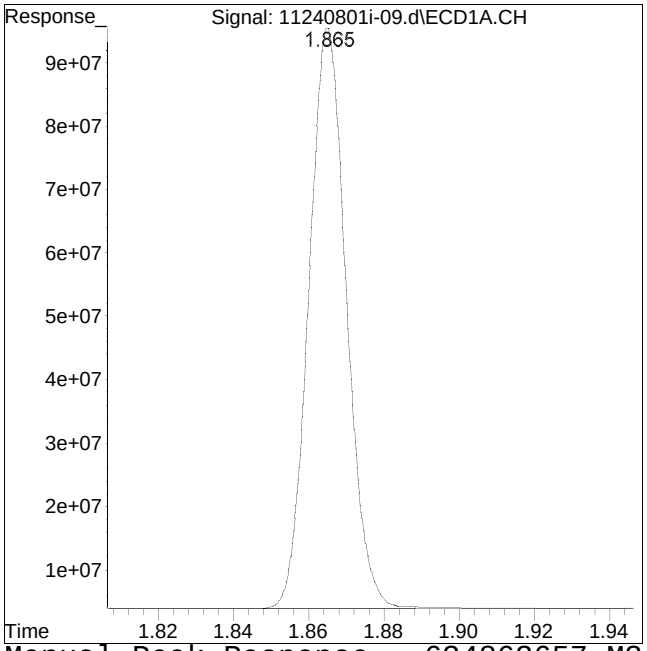
Original Peak Response = 504030150 Manual Peak Response = 492002569 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #3: Hexachlorobenzene



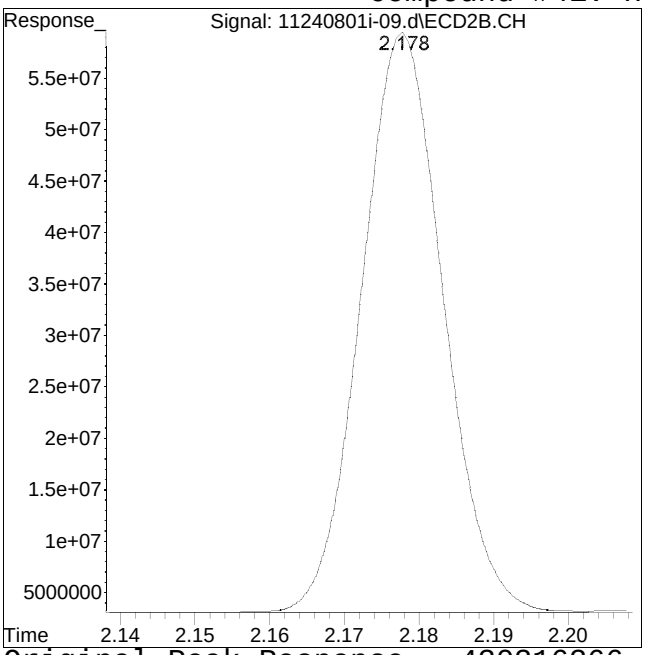


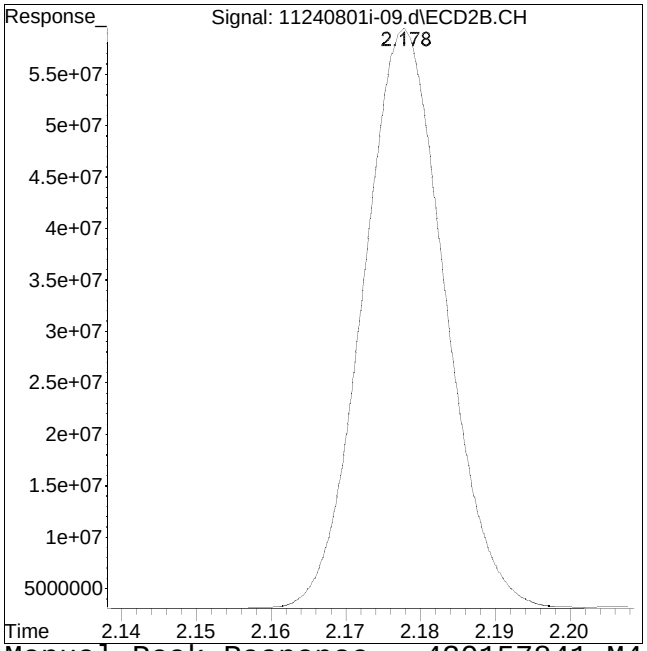
Original Peak Response = 652266128 Manual Peak Response = 634863657 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #41: Hexachlorobenzene #2



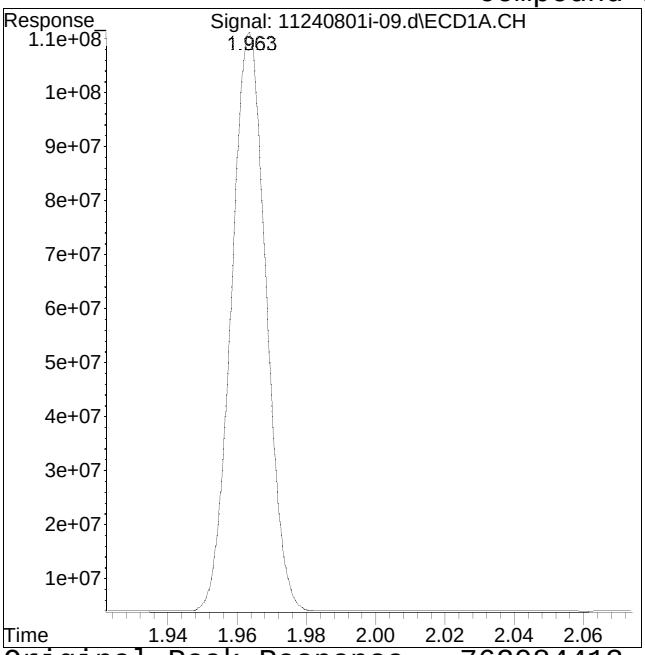


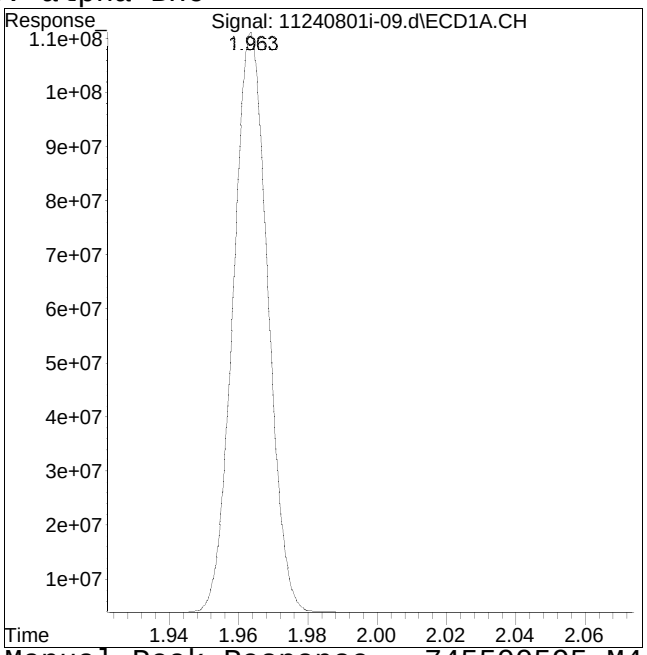
Original Peak Response = 430316366 Manual Peak Response = 430157841 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #4: alpha-BHC



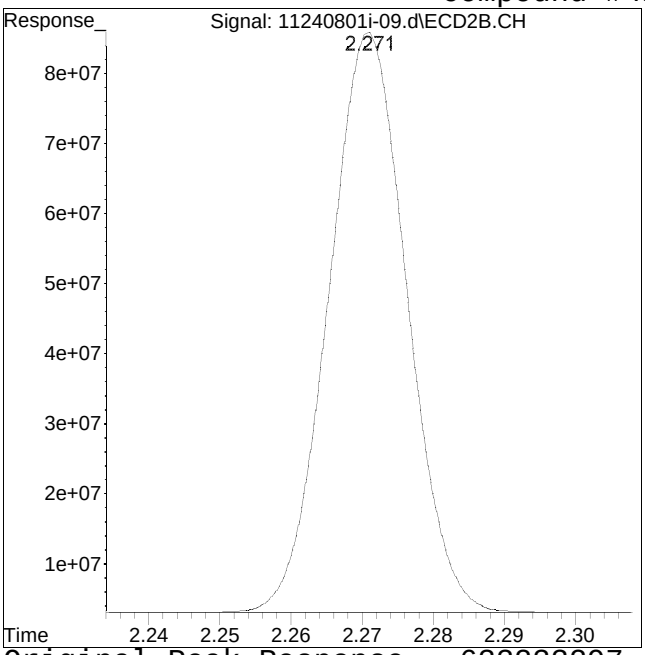


Original Peak Response = 762084413 Manual Peak Response = 745500595 M4
M4 = Poor automated baseline construction.

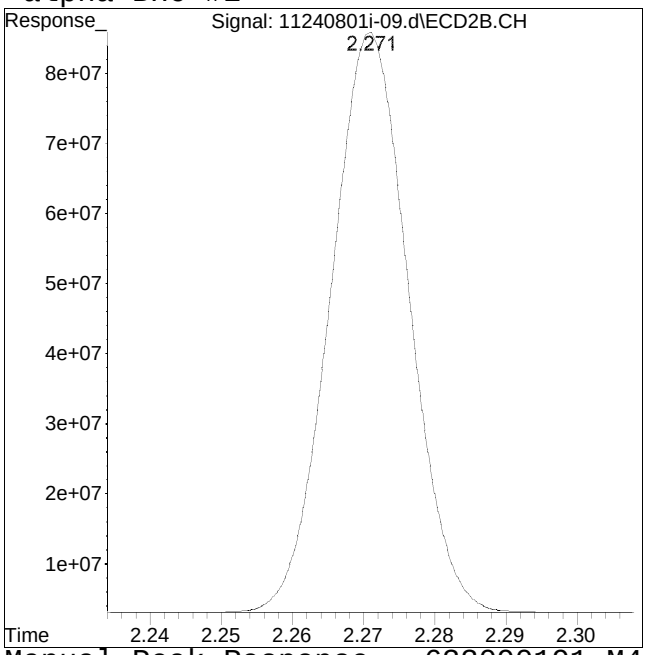
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #42: alpha-BHC #2



Original Peak Response = 633233297

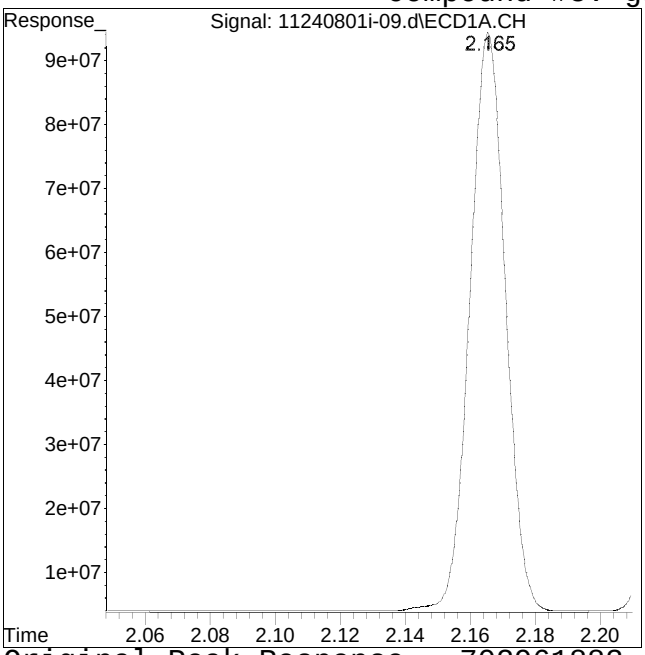


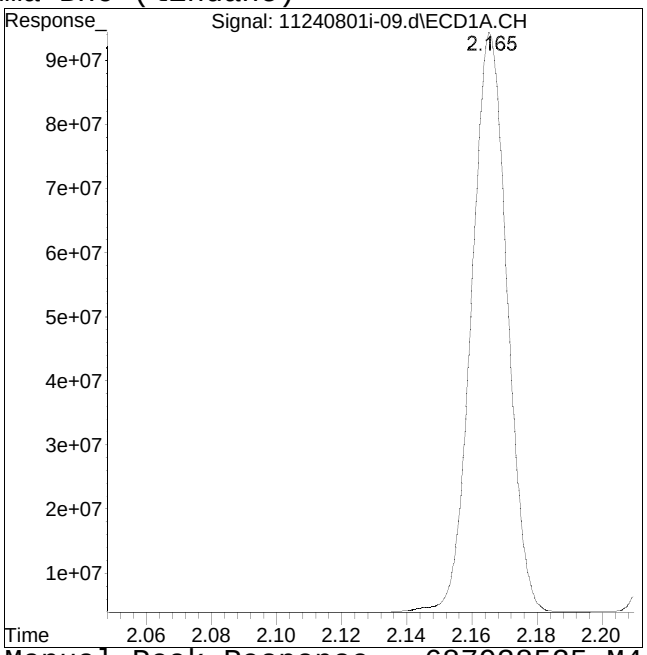
Manual Peak Response = 633090191 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #5: gamma-BHC (lindane)



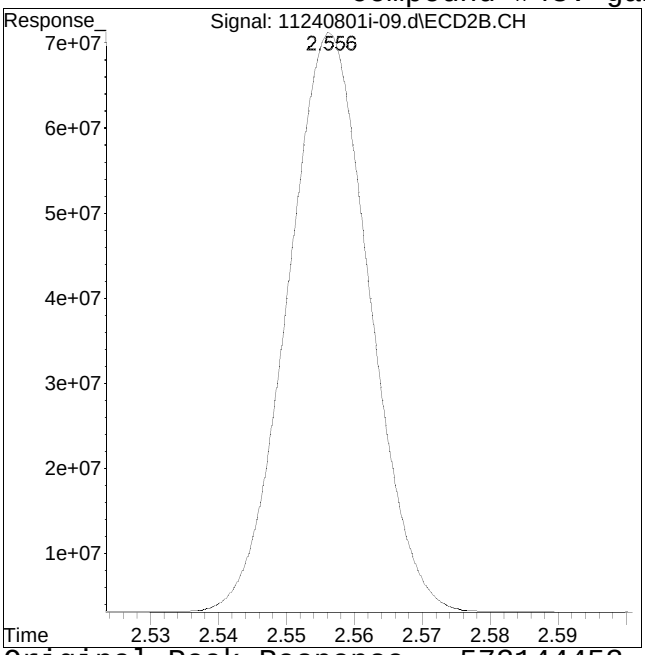


Original Peak Response = 702961883 Manual Peak Response = 687938525 M4
M4 = Poor automated baseline construction.

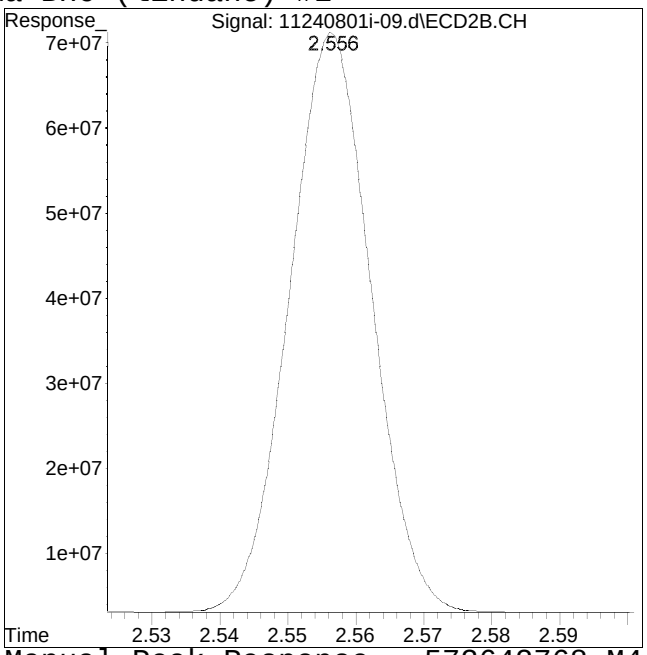
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 573144453

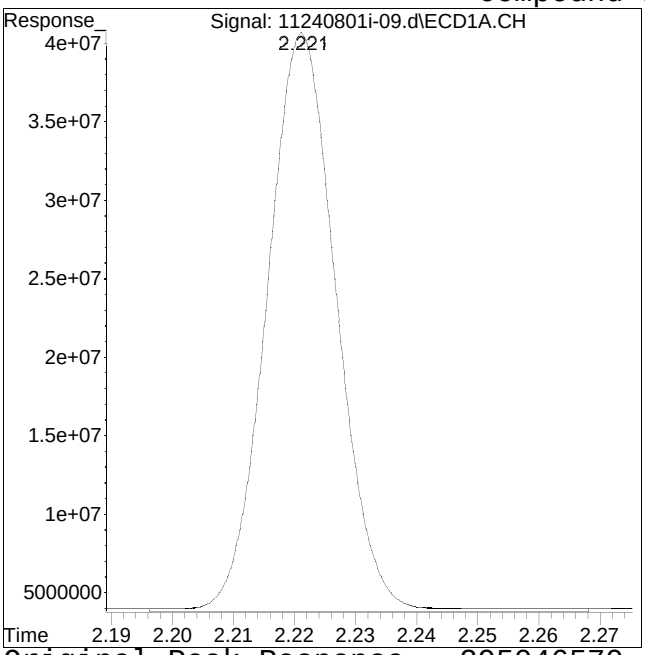


Manual Peak Response = 572642768 M4
M4 = Poor automated baseline construction.

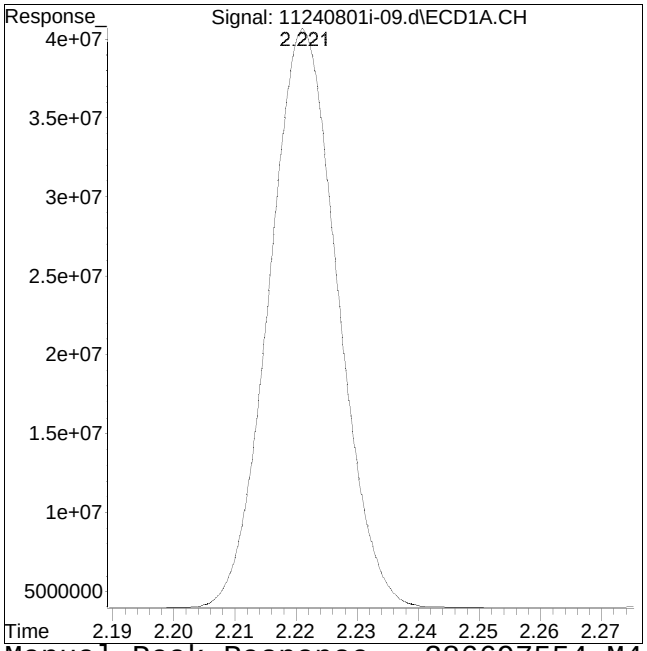
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #6: beta-BHC



Original Peak Response = 295046570



Manual Peak Response = 286697554 M4

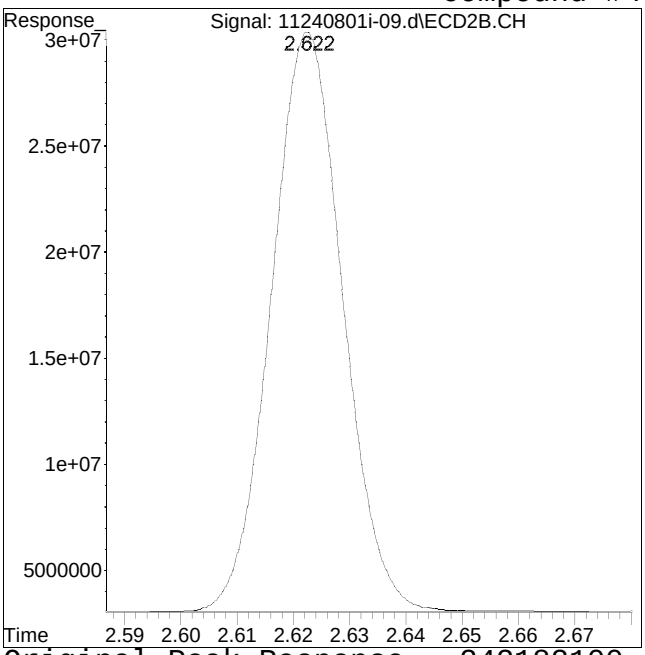
M4 = Poor automated baseline construction.

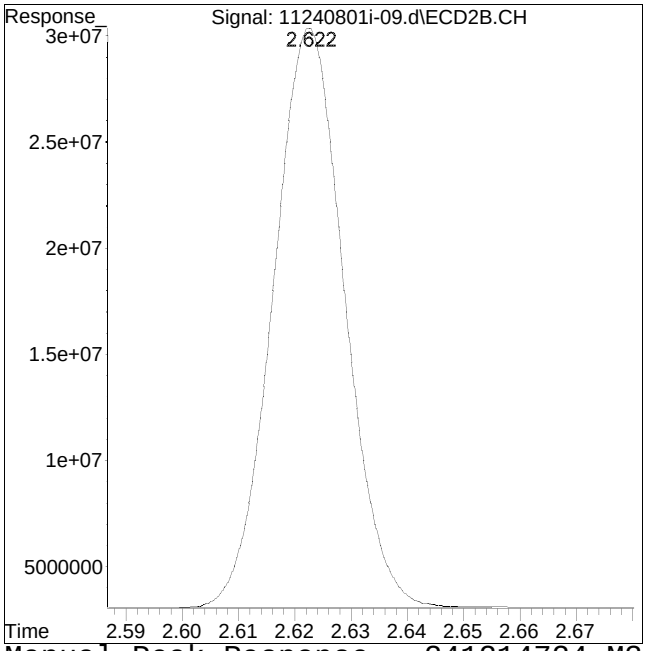
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #44: beta-BHC #2





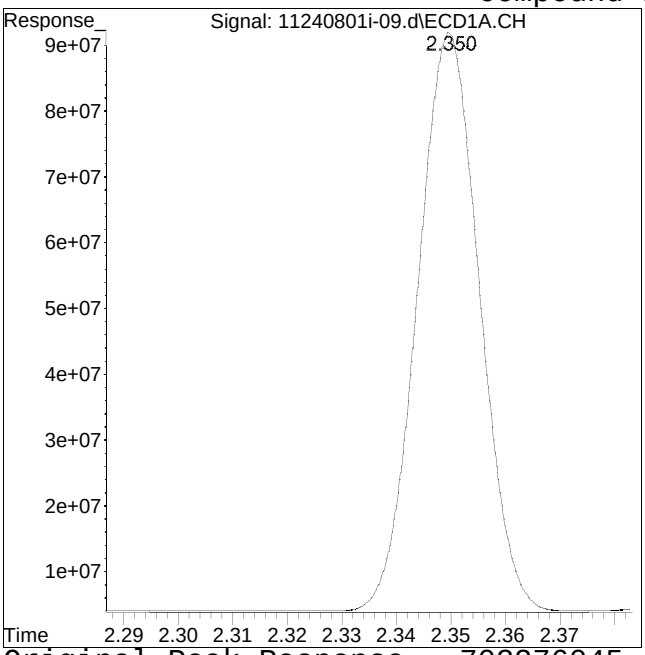
Original Peak Response = 242182100 Manual Peak Response = 241214724 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

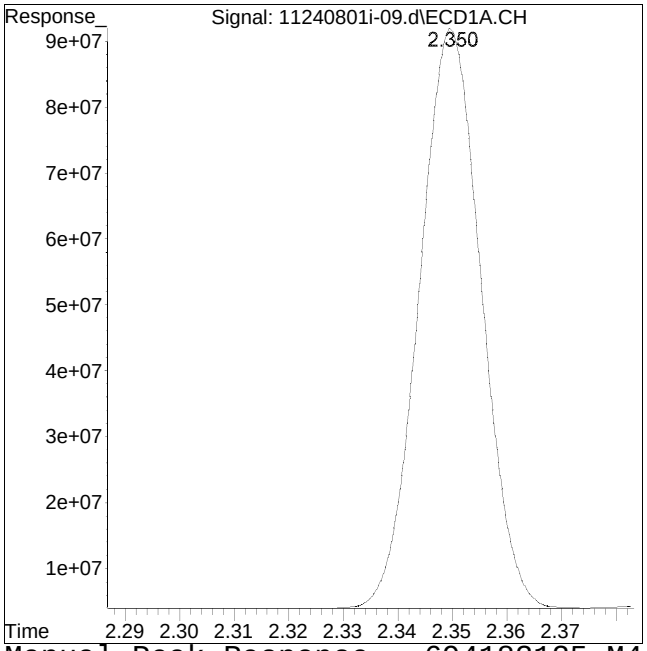
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #7: delta-BHC



Original Peak Response = 703276045



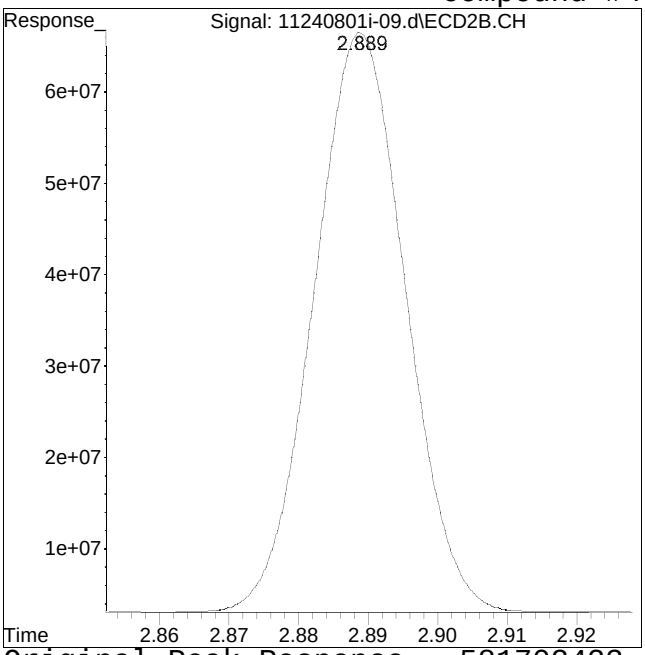
Manual Peak Response = 694183125 M4

M4 = Poor automated baseline construction.

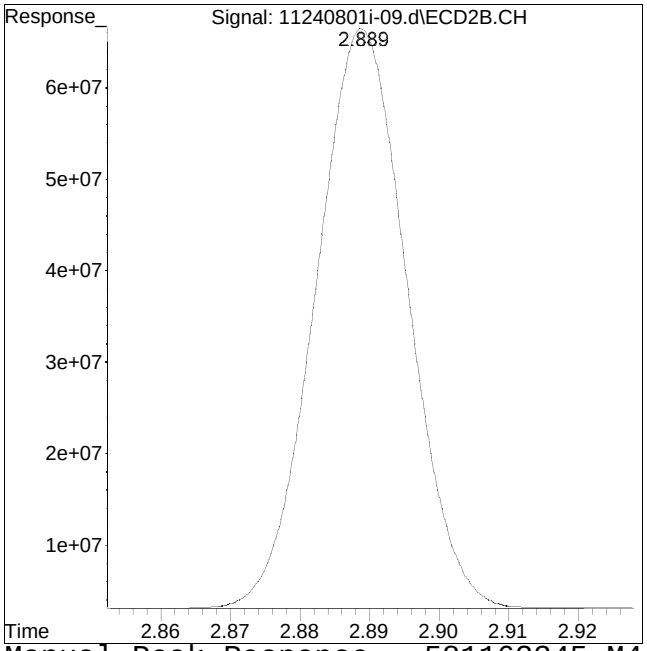
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #45: delta-BHC #2



Original Peak Response = 581702423



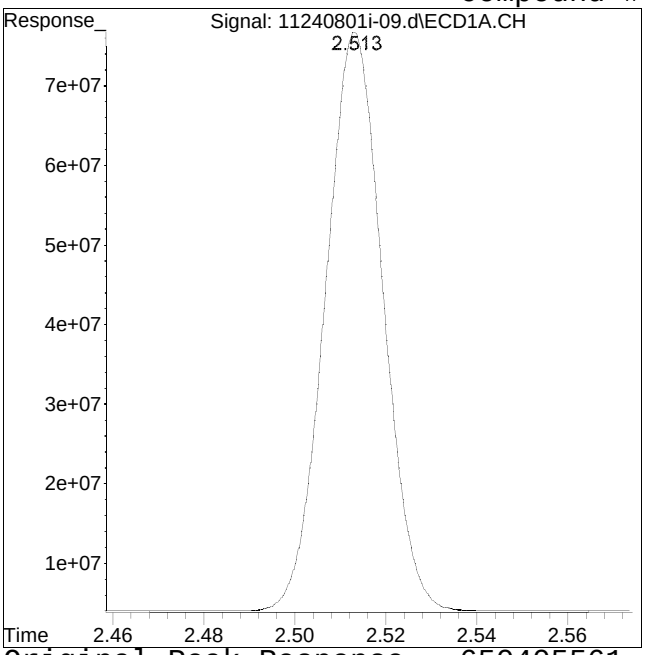
Manual Peak Response = 581163345 M4

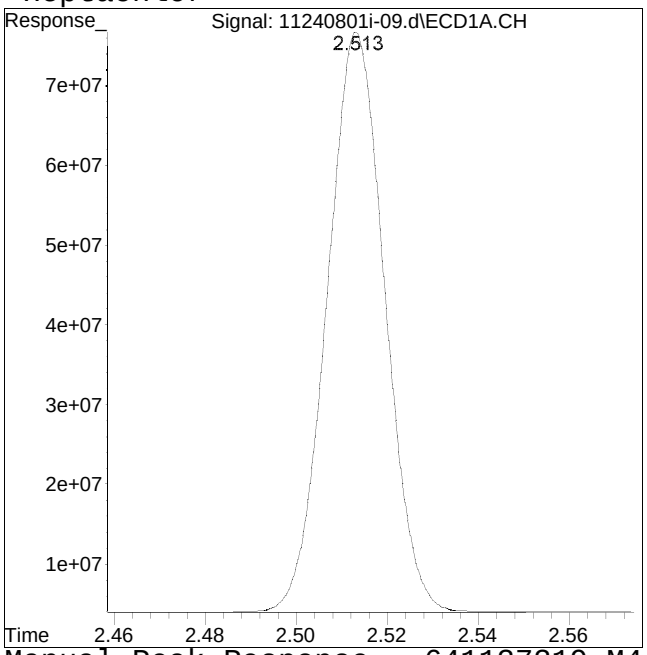
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #8: Heptachlor



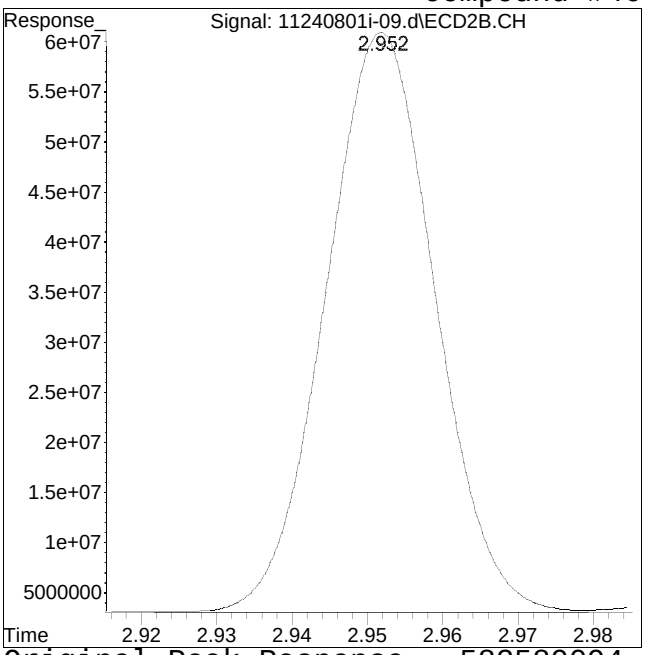


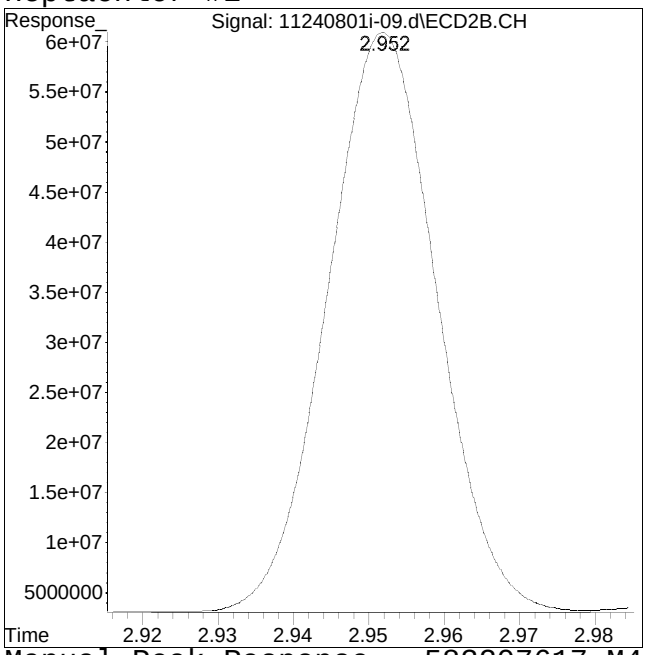
Original Peak Response = 650405561 Manual Peak Response = 641137319 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #46: Heptachlor #2





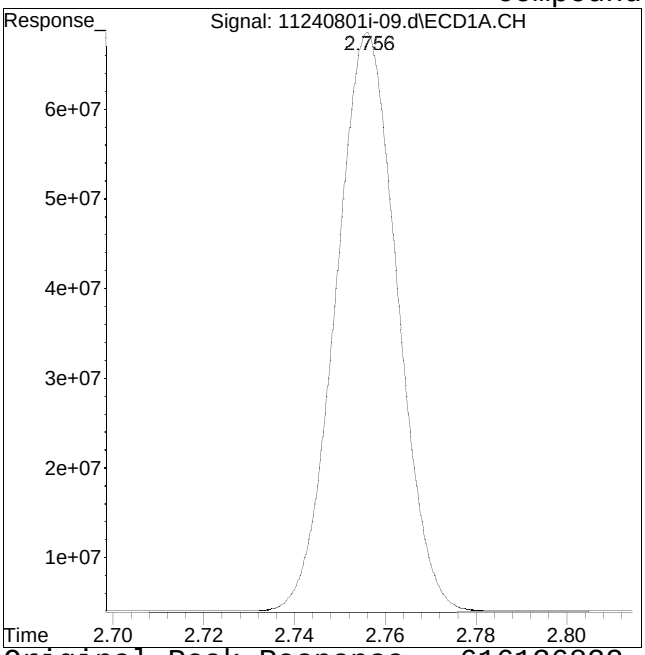
Original Peak Response = 583589094 Manual Peak Response = 583207617 M4
M4 = Poor automated baseline construction.

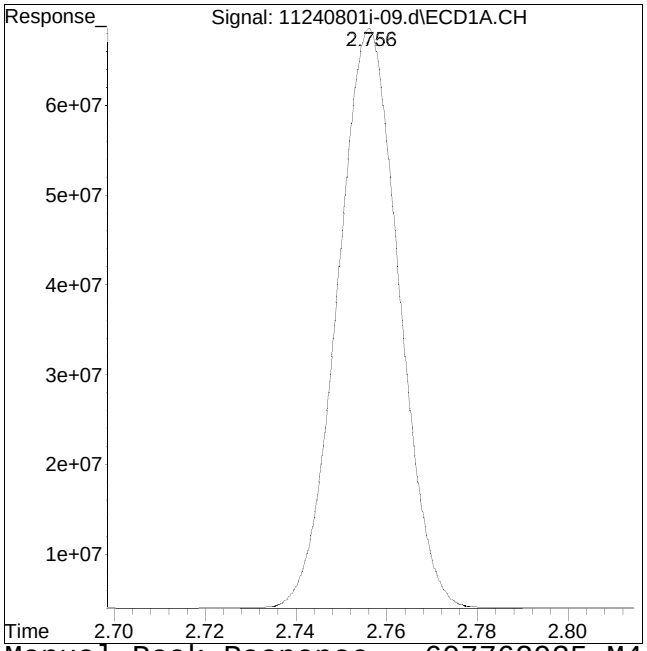
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #9: Aldrin





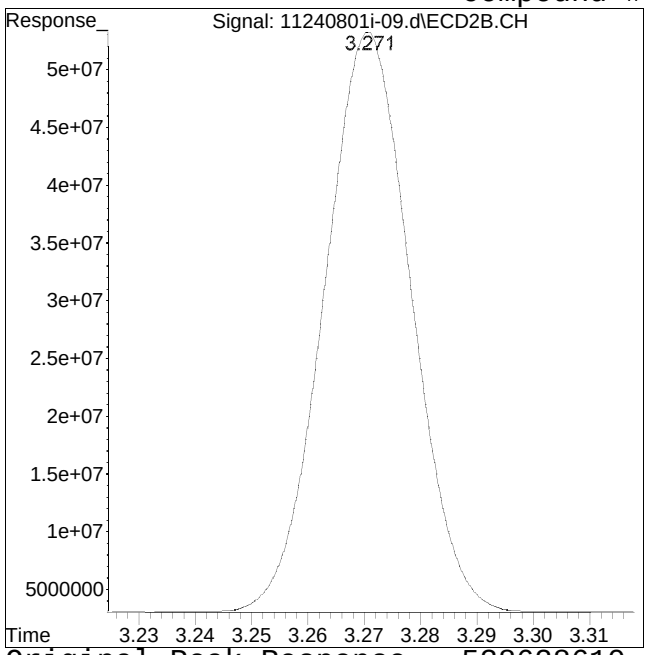
Original Peak Response = 616136822 Manual Peak Response = 607762935 M4
M4 = Poor automated baseline construction.

Manual Integration Report

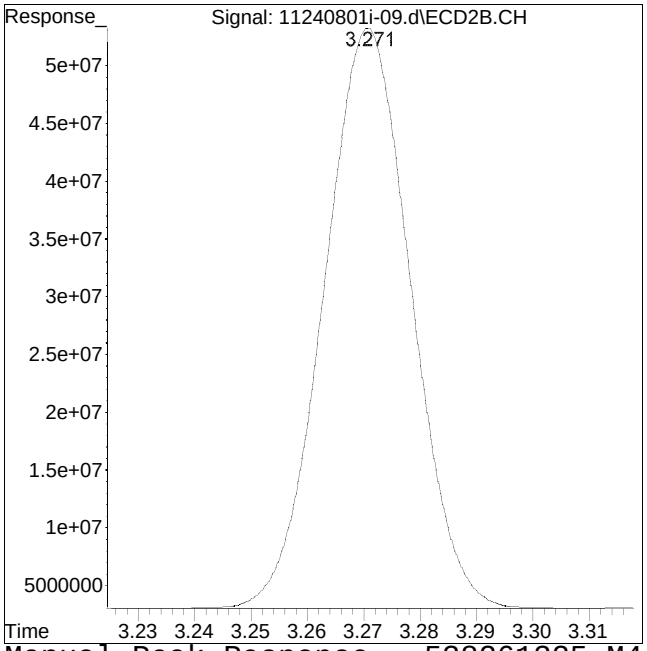
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #47: Aldrin #2



Original Peak Response = 538628610



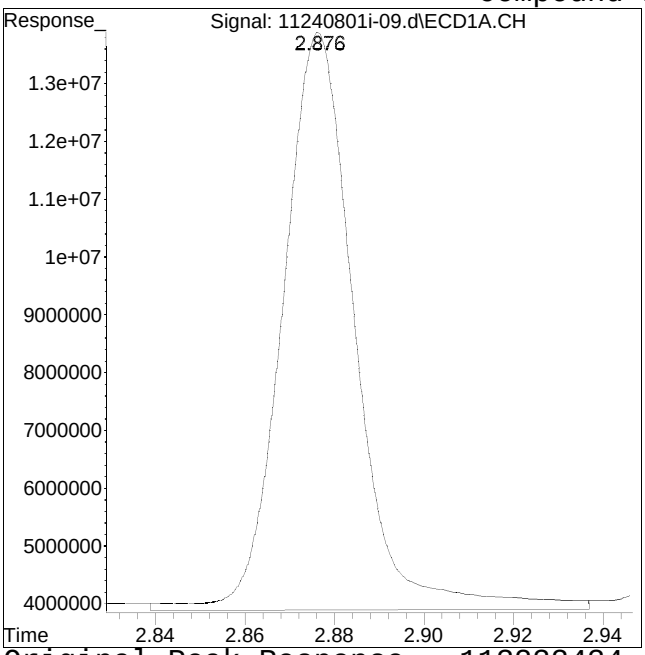
Manual Peak Response = 538261325 M4

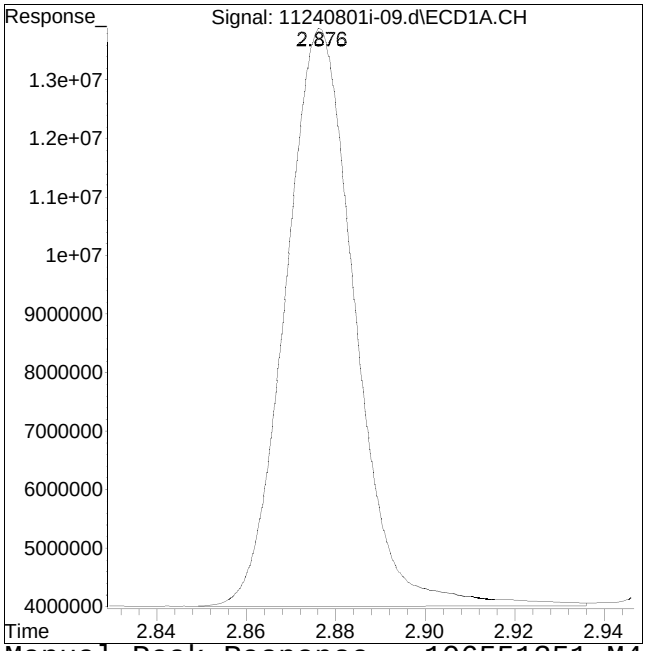
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #10: Alachlor



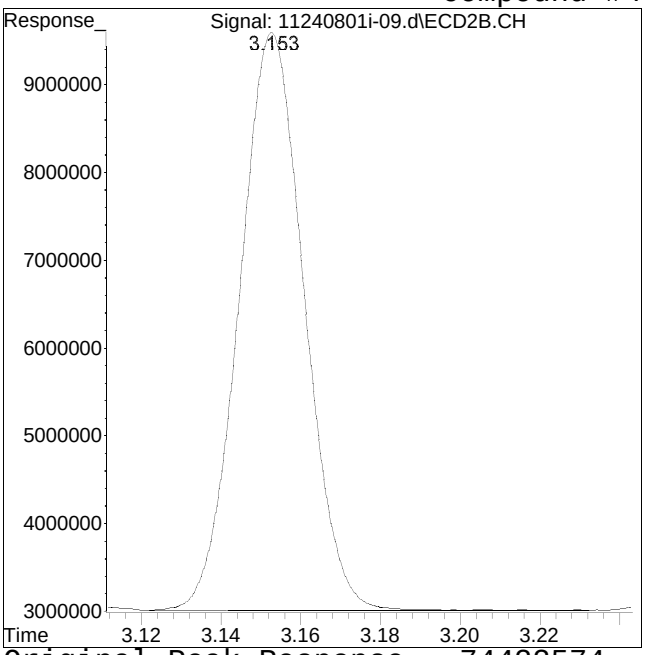


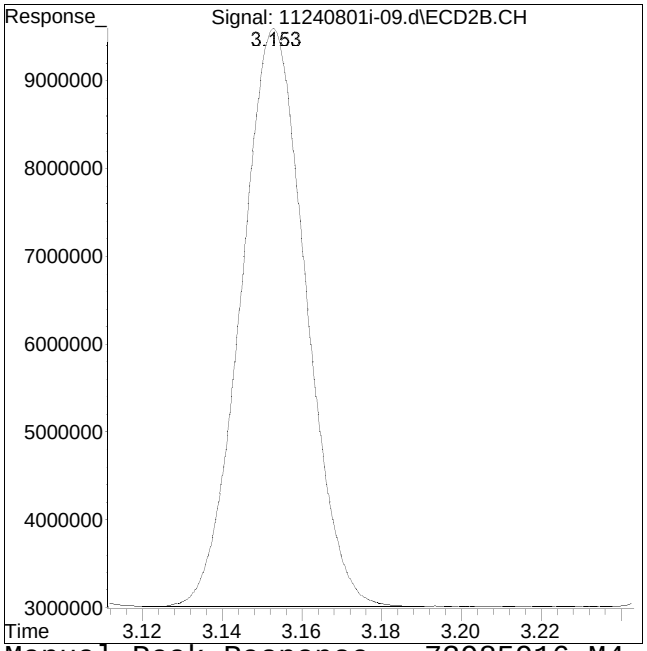
Original Peak Response = 113232434 Manual Peak Response = 106551351 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #48: Alachlor #2



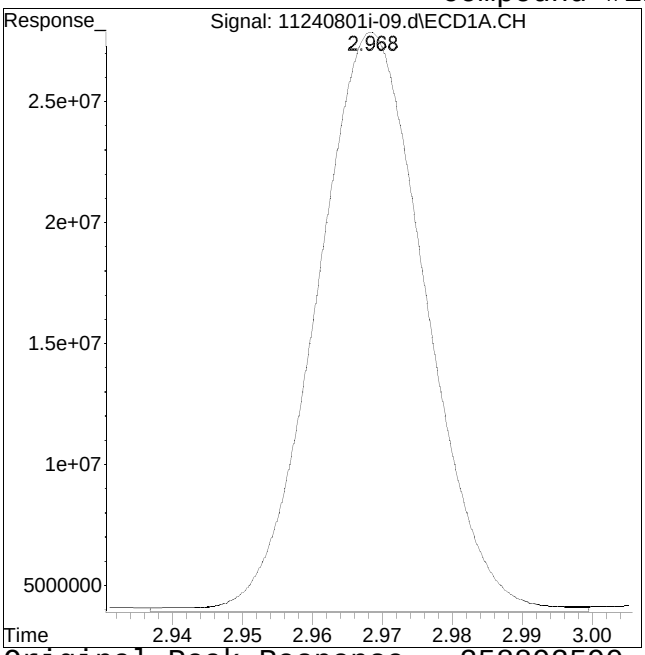


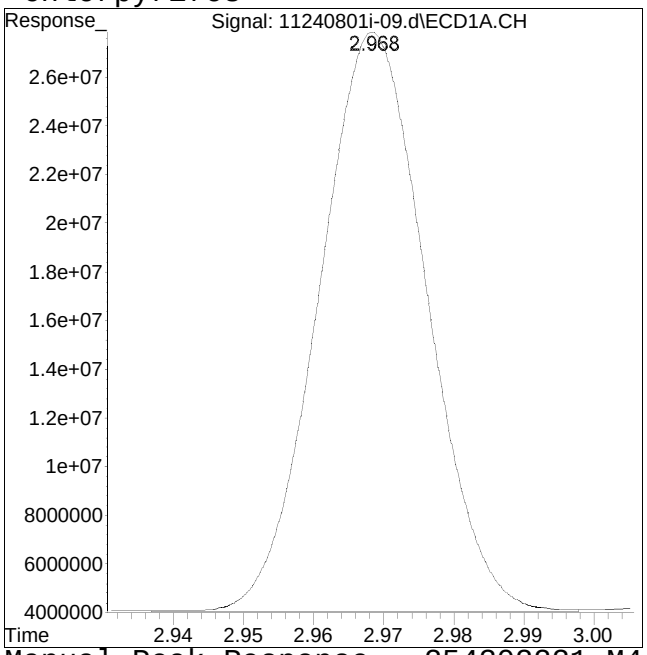
Original Peak Response = 74422574 Manual Peak Response = 73985916 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #11: Chlorpyrifos



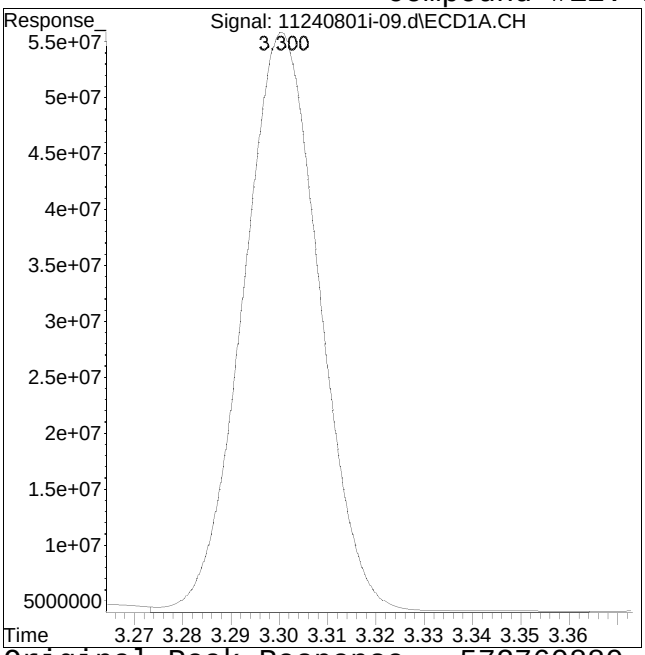


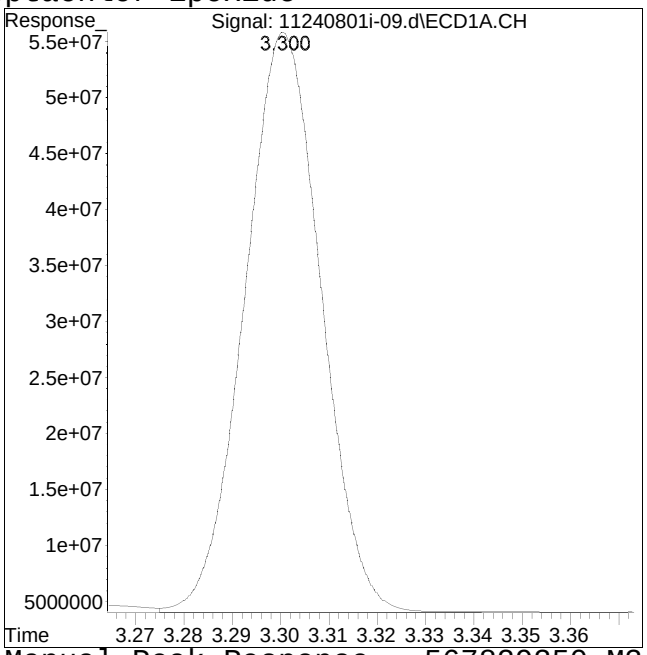
Original Peak Response = 258892590 Manual Peak Response = 254302221 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #12: Heptachlor Epoxide





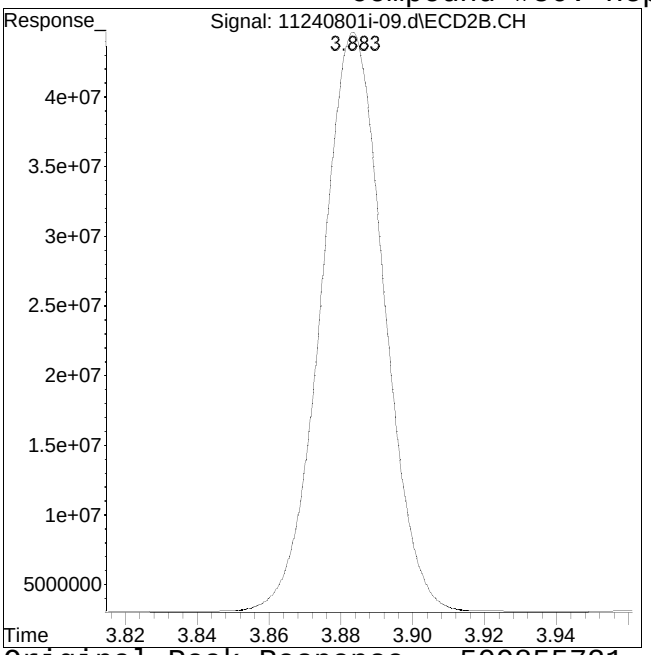
Original Peak Response = 572760880 Manual Peak Response = 567829350 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

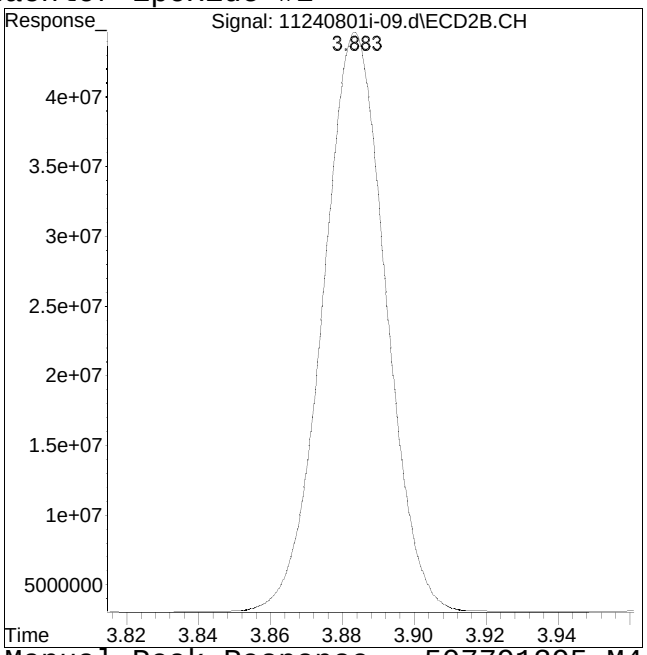
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 509855721



Manual Peak Response = 507791395 M4

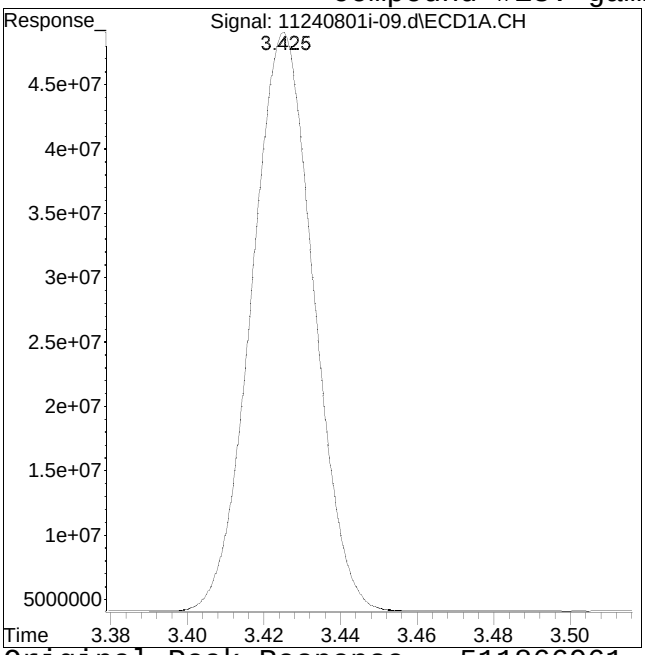
M4 = Poor automated baseline construction.

Manual Integration Report

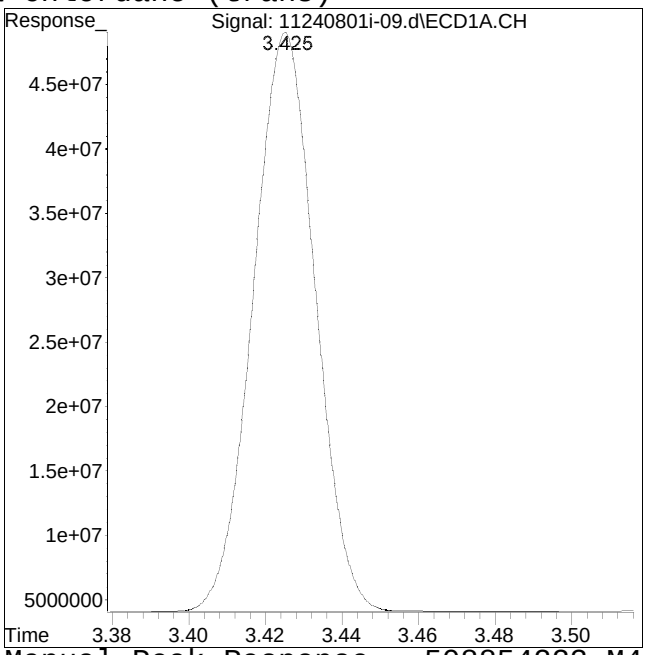
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 511866961



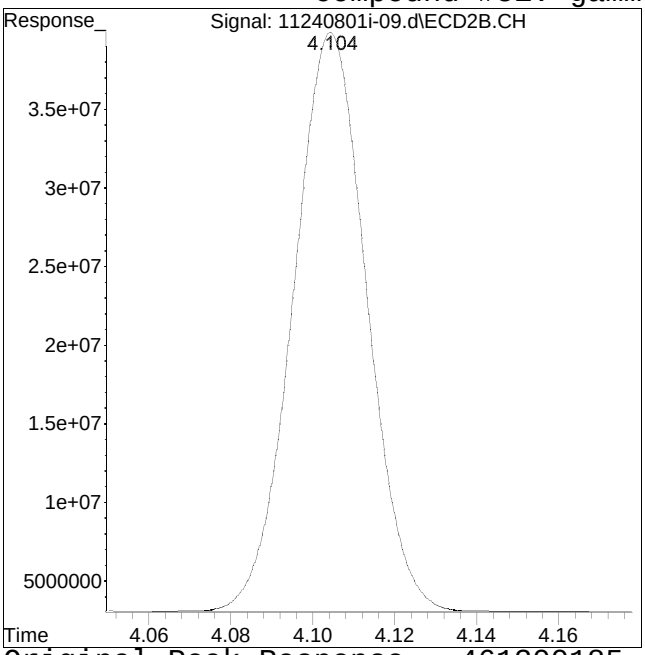
Manual Peak Response = 508854223 M4

M4 = Poor automated baseline construction.

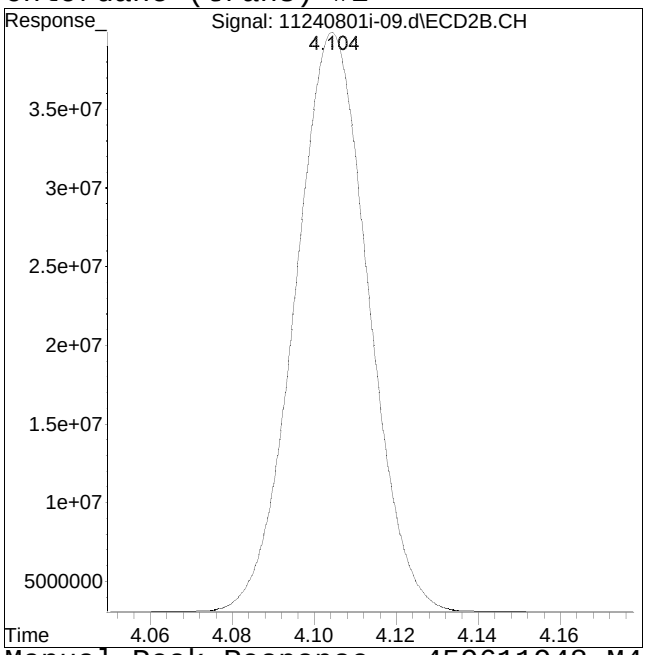
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 461300185

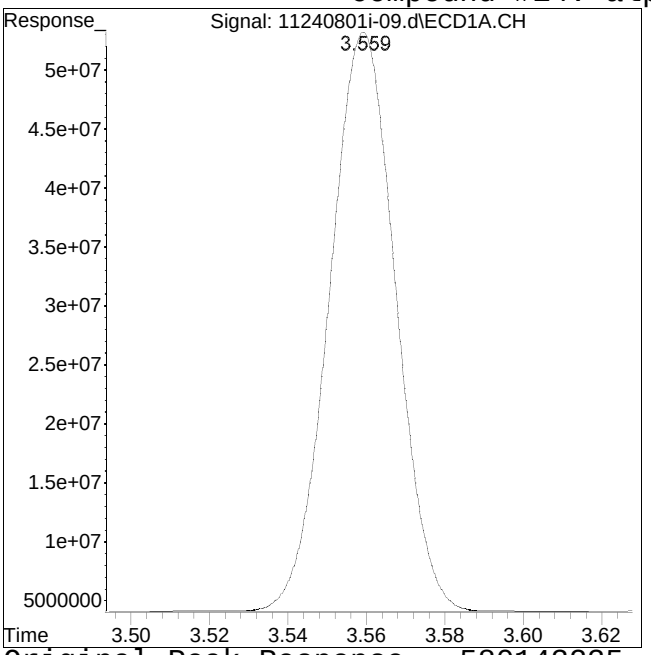


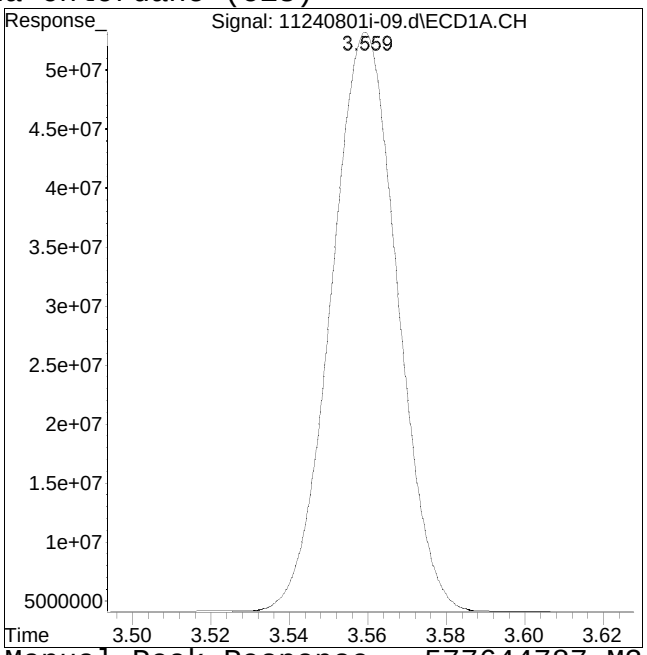
Manual Peak Response = 459611948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #14: alpha-Chlordane (cis)



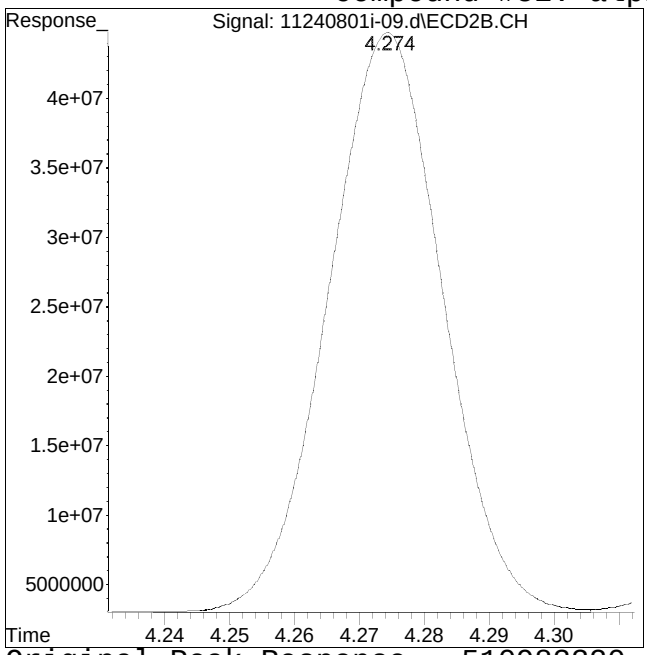


Original Peak Response = 580143235 Manual Peak Response = 577644787 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

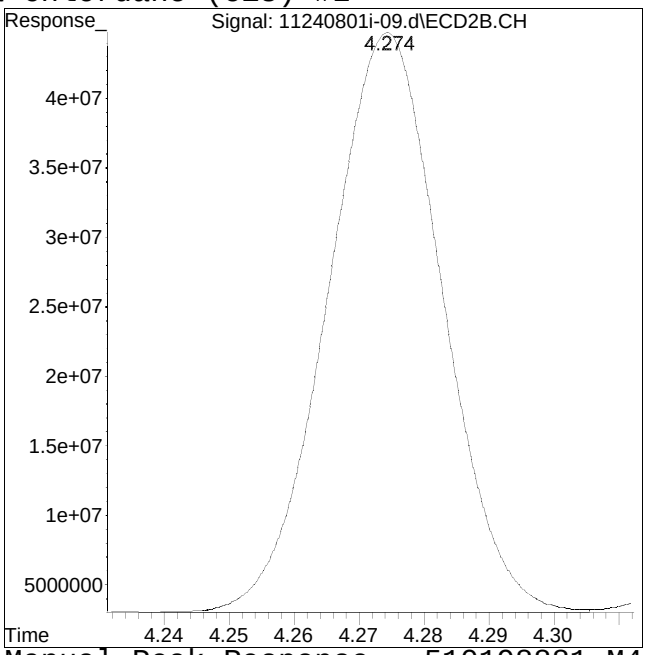
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 510983320



Manual Peak Response = 510198881 M4

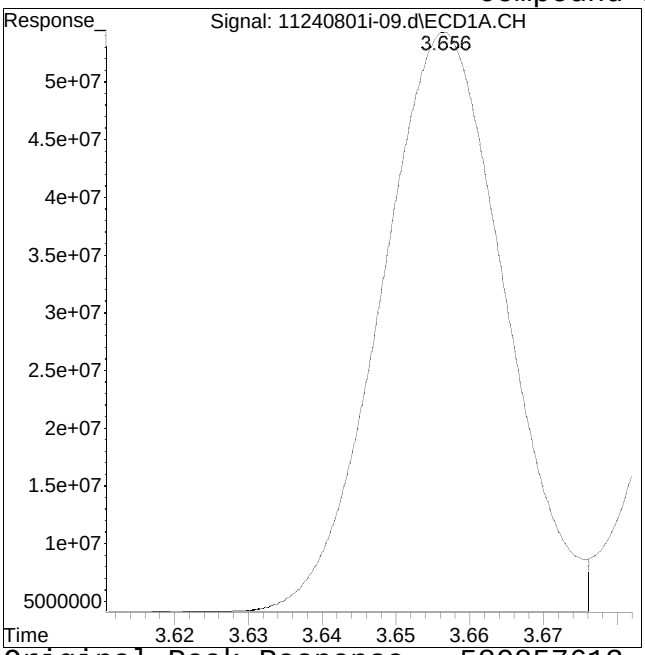
M4 = Poor automated baseline construction.

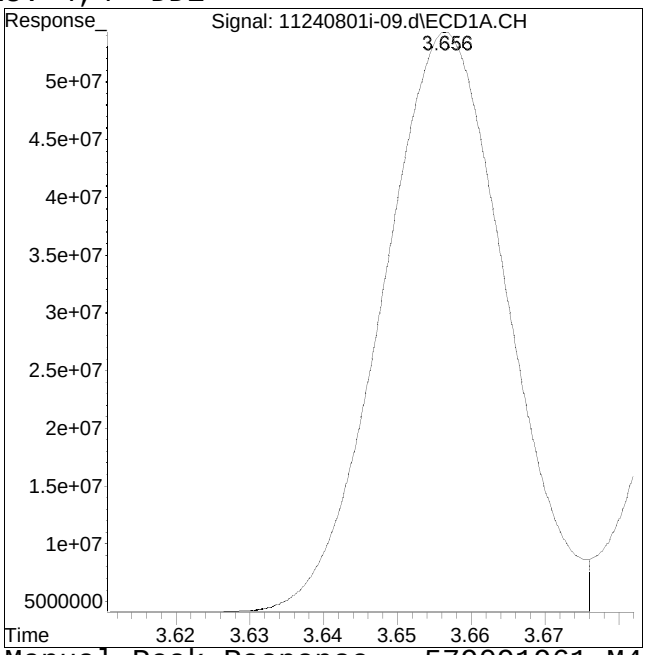
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #15: 4,4'-DDE



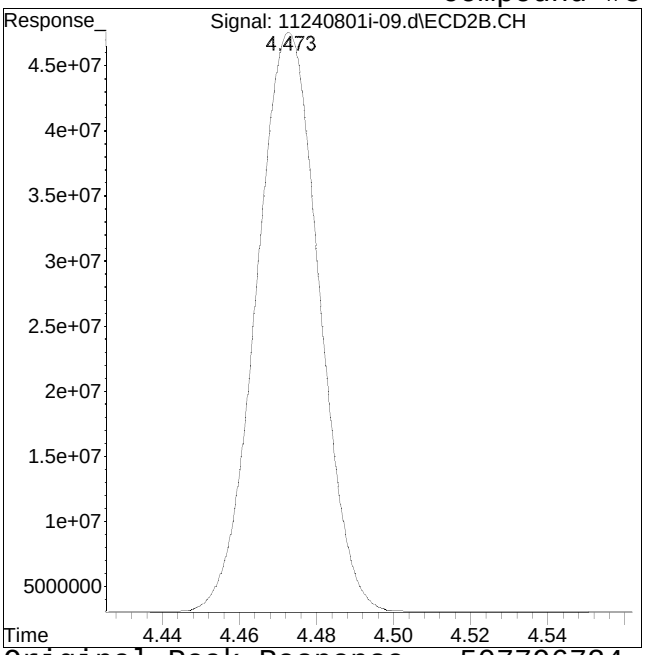


Original Peak Response = 580857613 Manual Peak Response = 579091961 M4
M4 = Poor automated baseline construction.

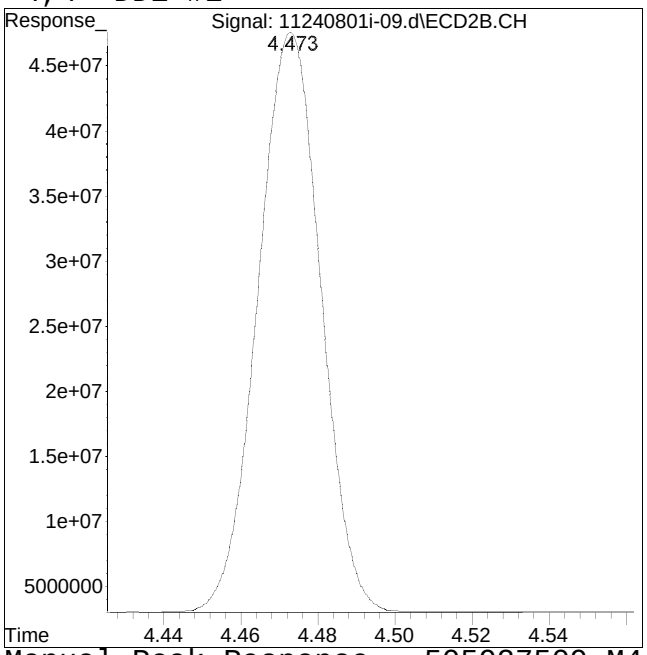
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 507796724



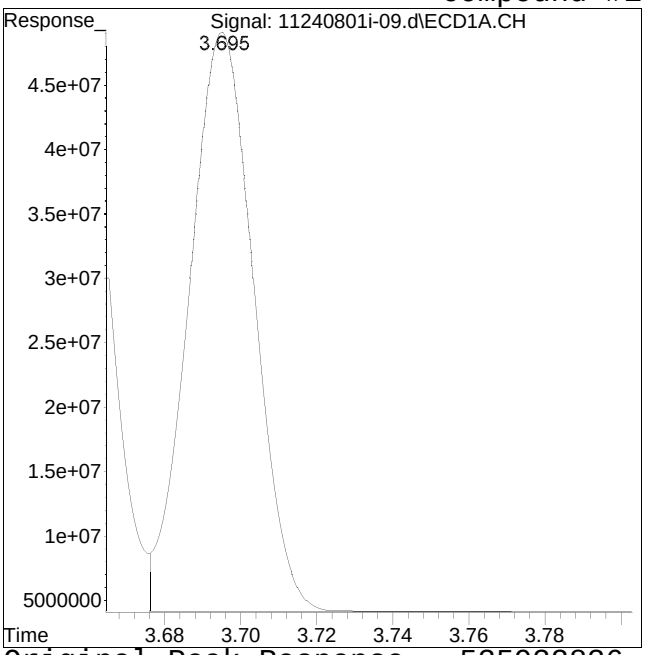
Manual Peak Response = 505927509 M4

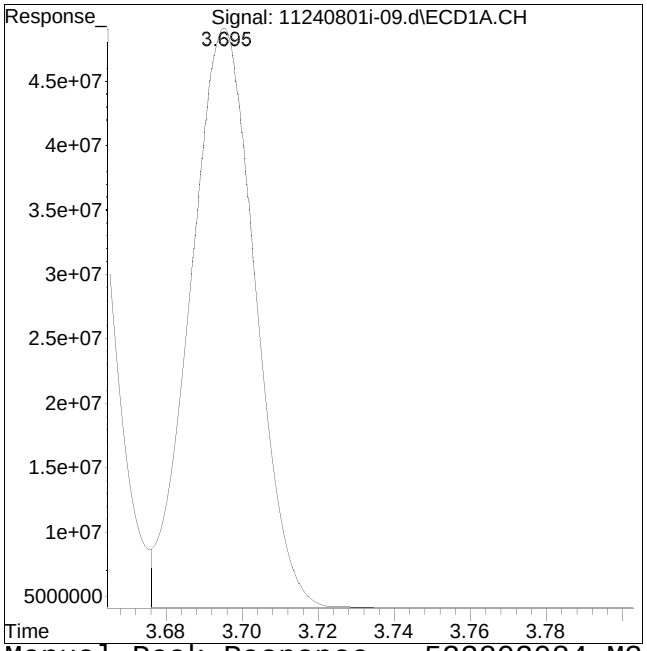
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #16: Endosulfan I



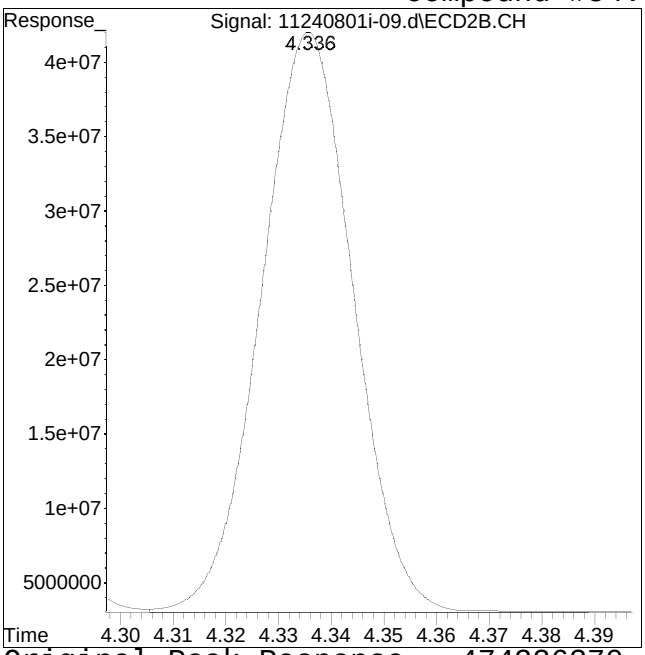


Original Peak Response = 535932836 Manual Peak Response = 533803084 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

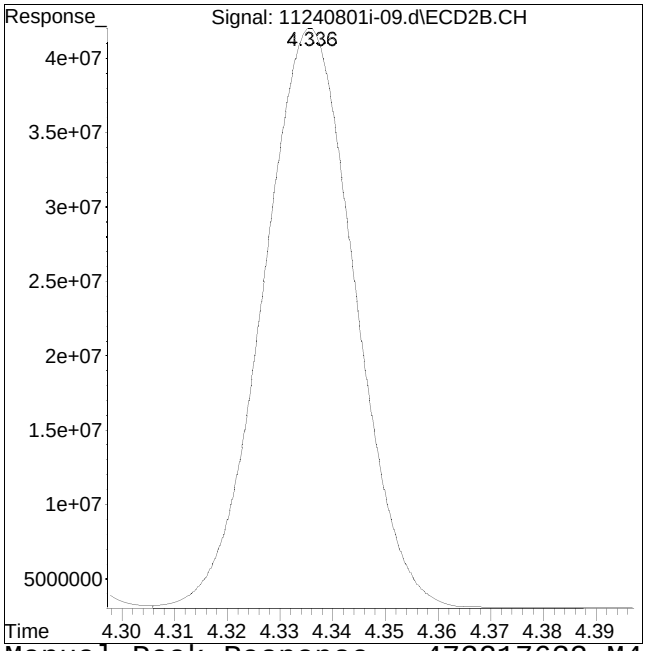
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #54: Endosulfan I #2



Original Peak Response = 474326370



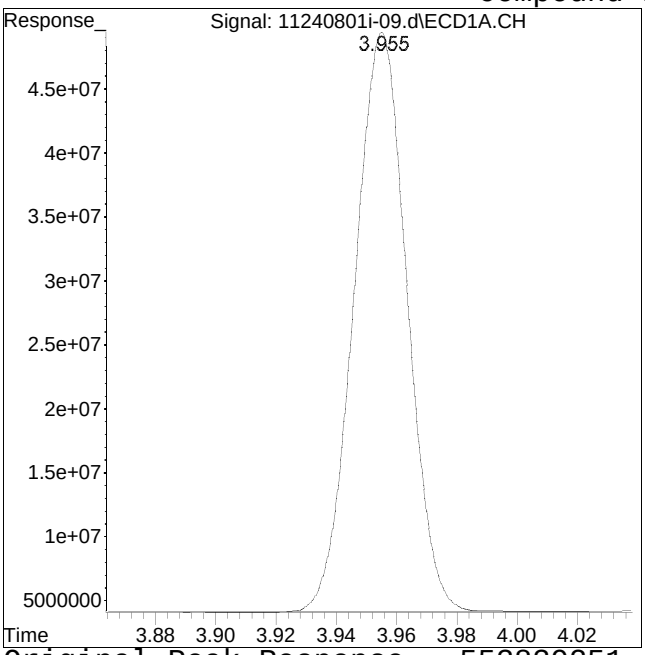
Manual Peak Response = 473217633 M4

M4 = Poor automated baseline construction.

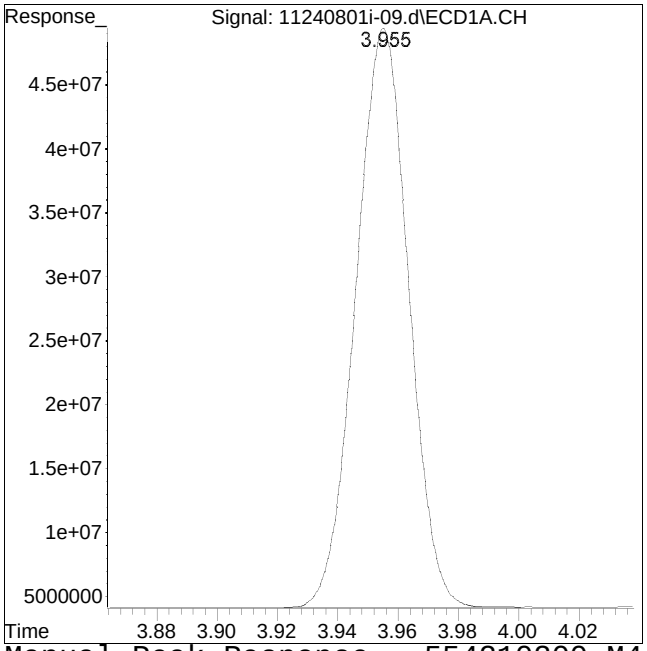
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #17: Dieldrin



Original Peak Response = 553839251



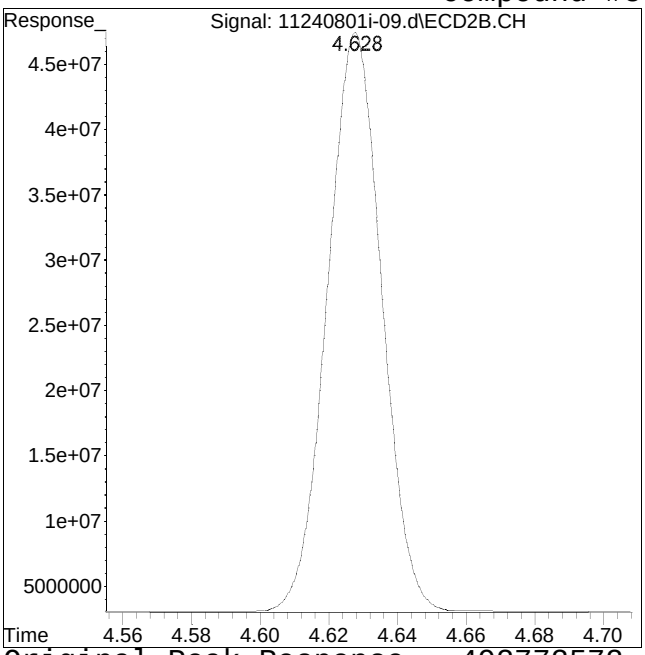
Manual Peak Response = 554210200 M4

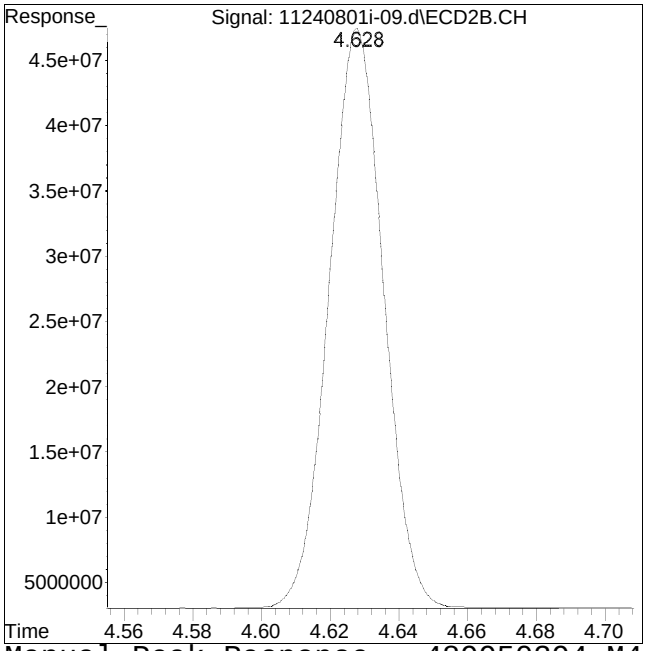
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #55: Dieldrin #2



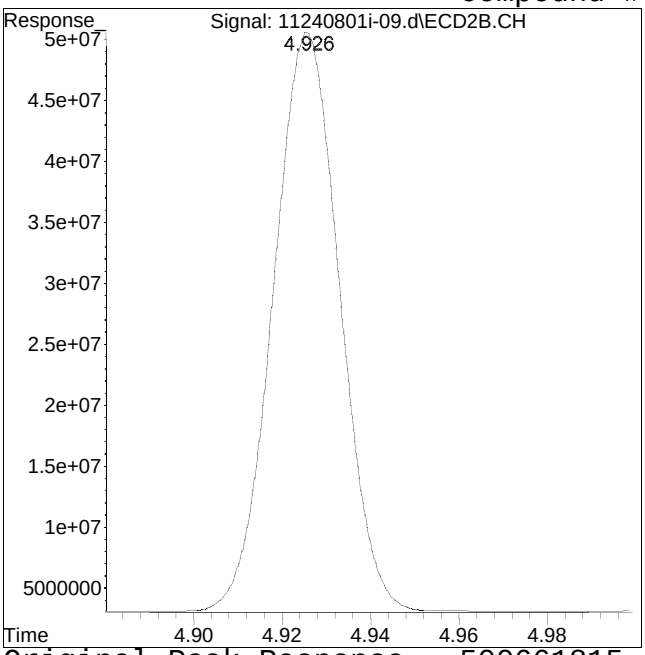


Original Peak Response = 492772572 Manual Peak Response = 489950394 M4
M4 = Poor automated baseline construction.

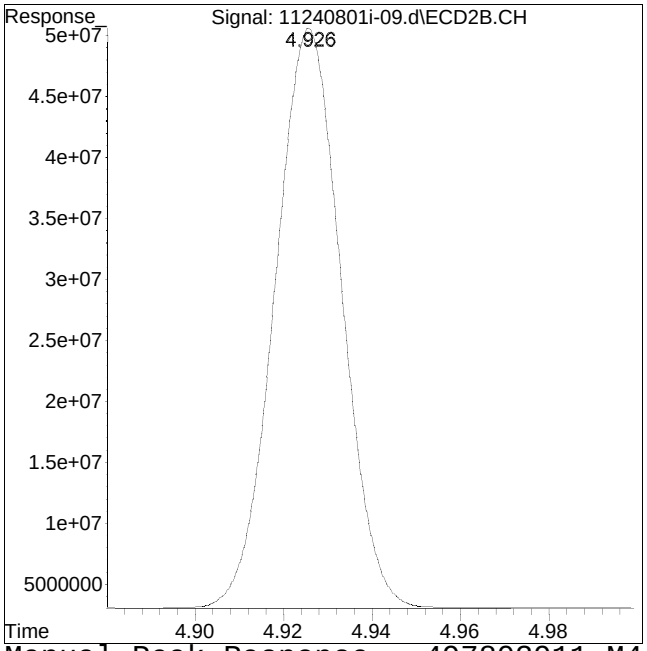
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #56: Endrin #2



Original Peak Response = 500661815



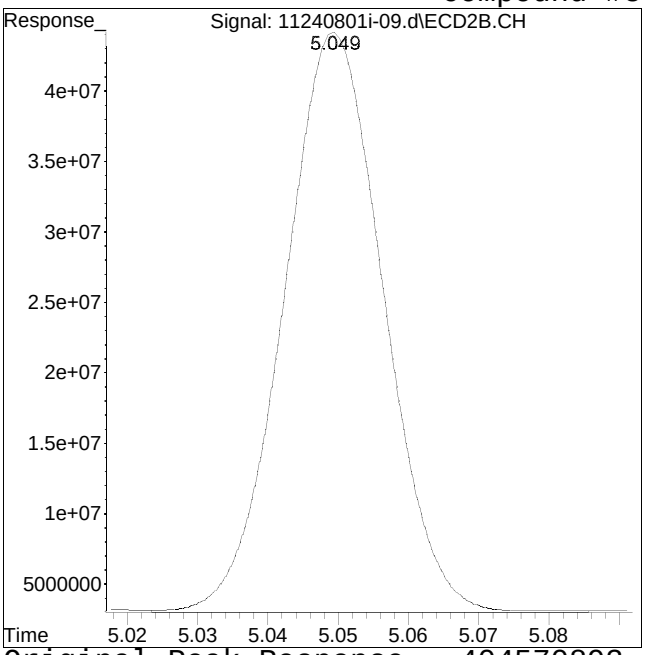
Manual Peak Response = 497803911 M4

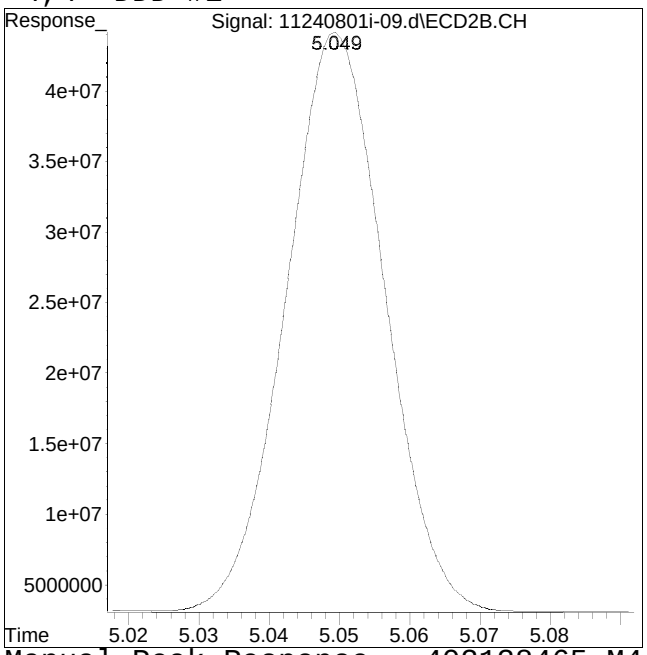
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #57: 4,4'-DDD #2



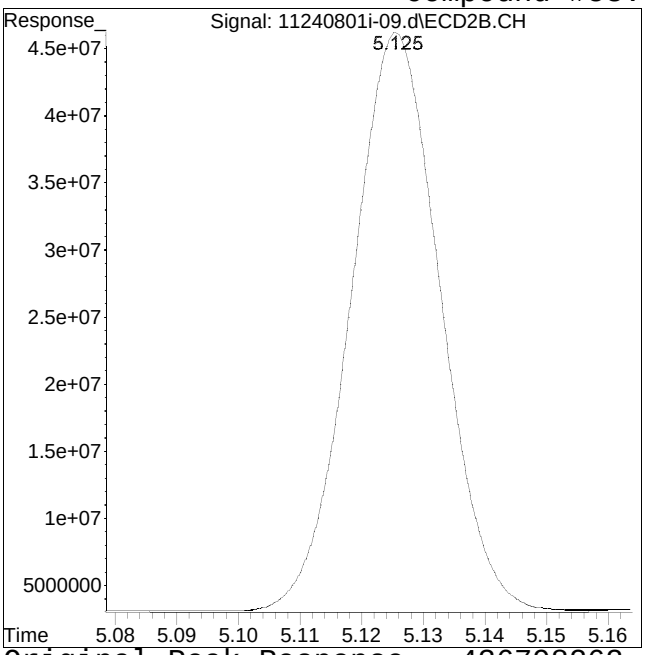


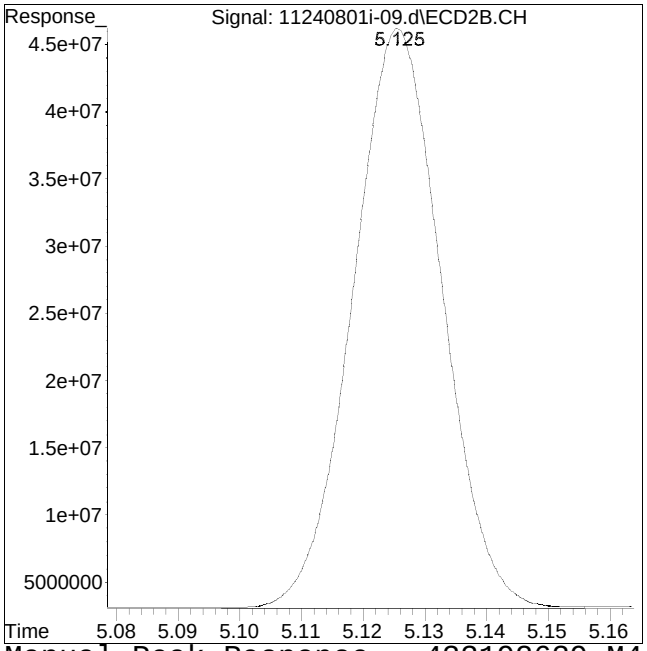
Original Peak Response = 404570893 Manual Peak Response = 402138465 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #58: Endosulfan II #2



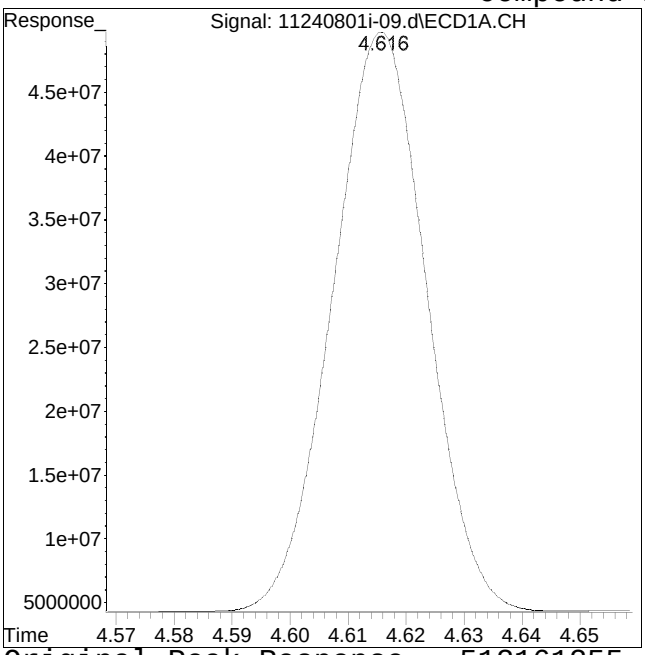


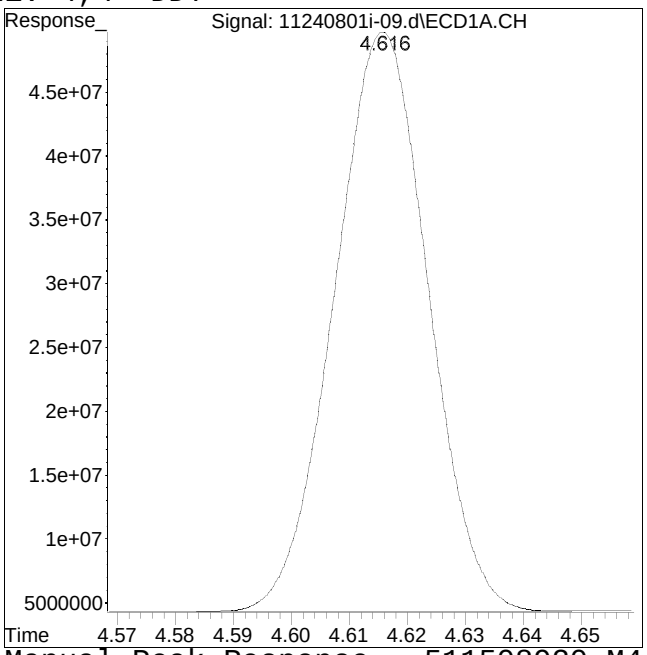
Original Peak Response = 436798262 Manual Peak Response = 433192639 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #21: 4,4'-DDT



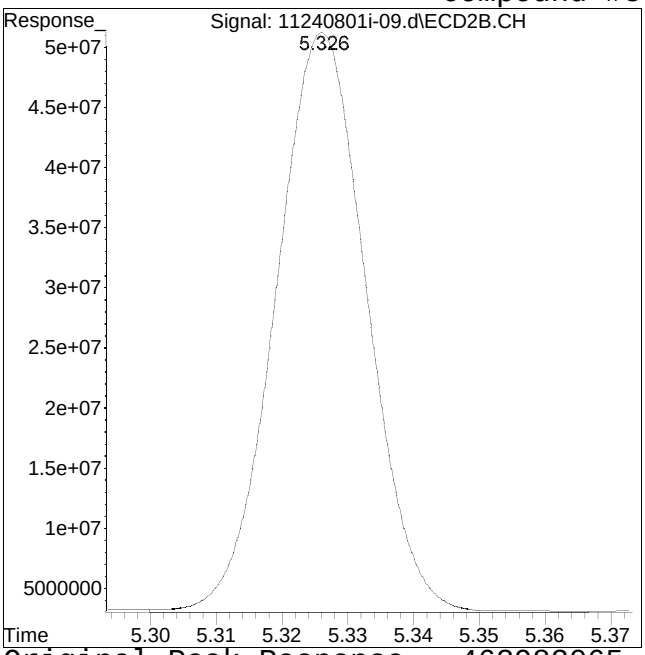


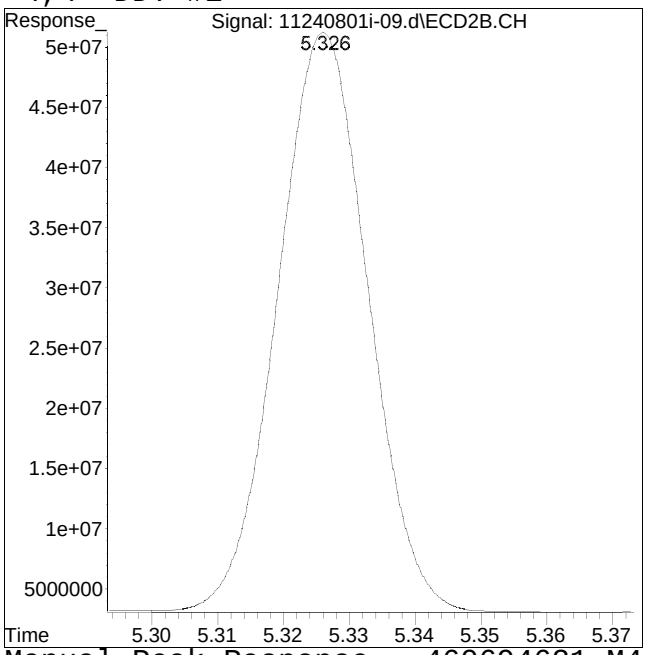
Original Peak Response = 512161255 Manual Peak Response = 511508920 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #59: 4,4'-DDT #2



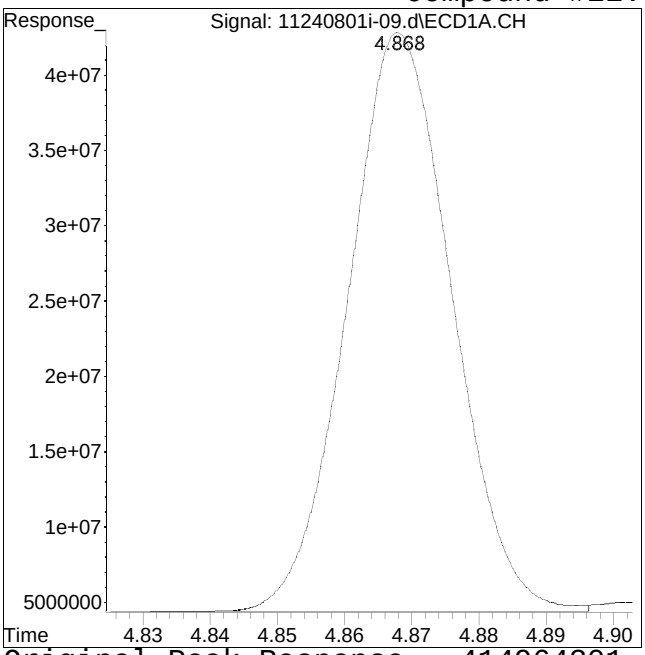


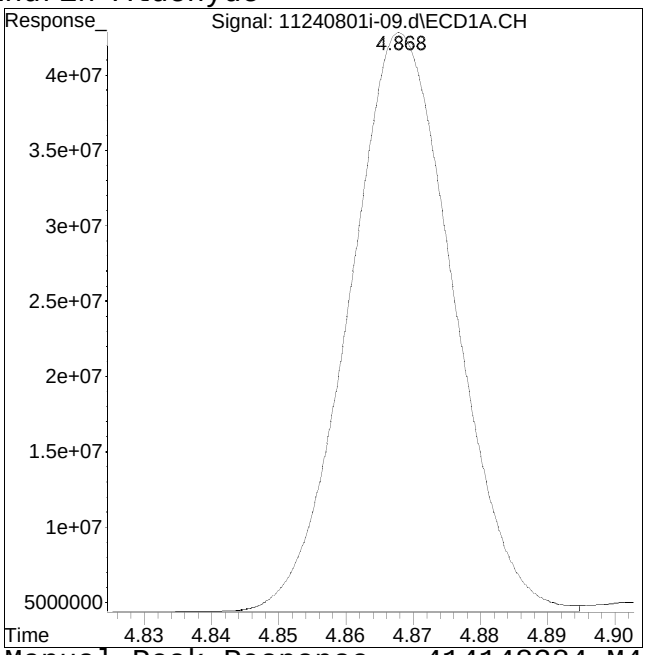
Original Peak Response = 463982065 Manual Peak Response = 460694621 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #22: Endrin Aldehyde



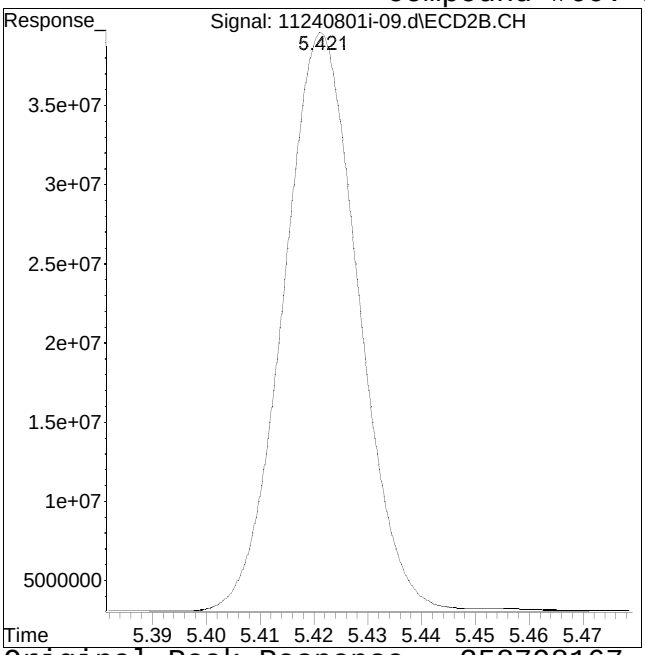


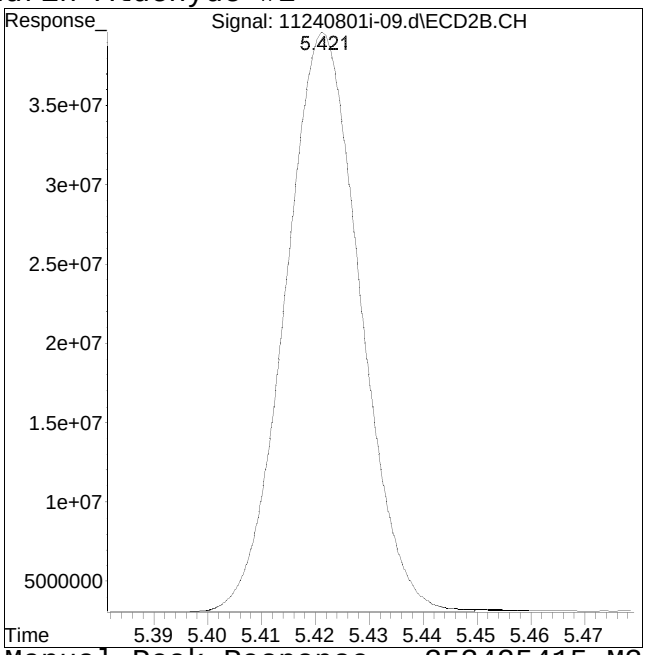
Original Peak Response = 414964301 Manual Peak Response = 414148384 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 358798167 Manual Peak Response = 353425415 M3

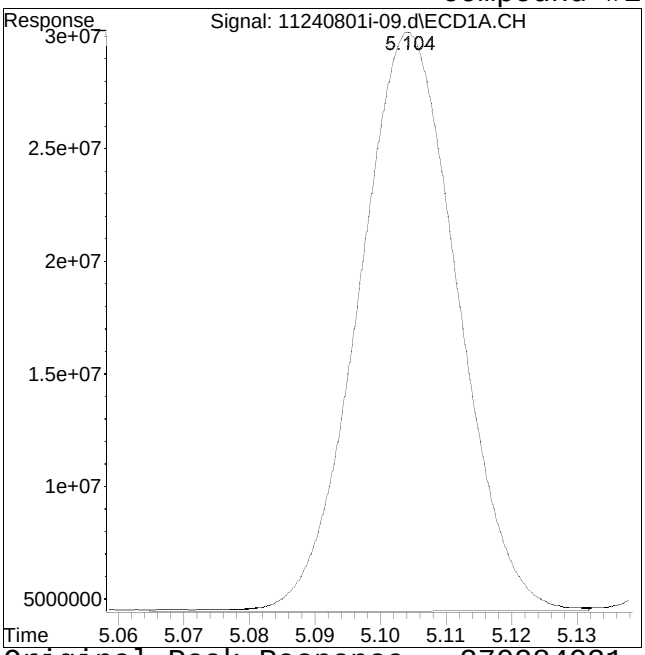
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

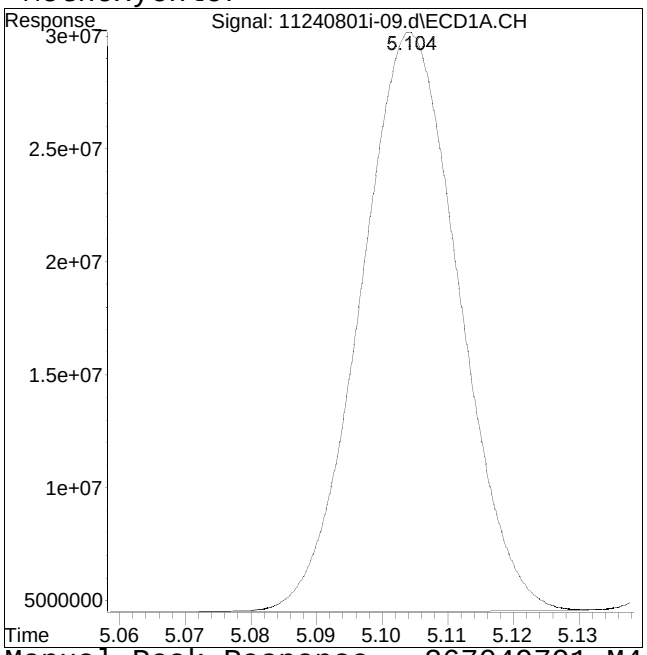
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #23: Methoxychlor





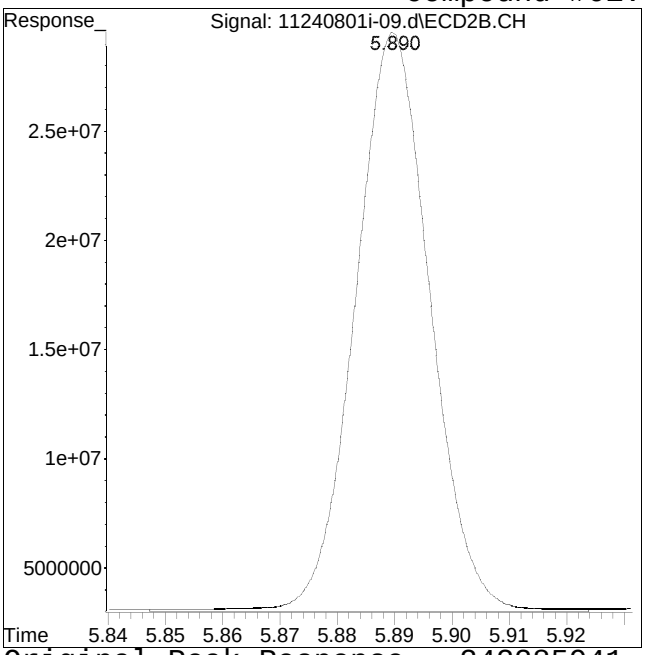
Original Peak Response = 270284931 Manual Peak Response = 267049791 M4
M4 = Poor automated baseline construction.

Manual Integration Report

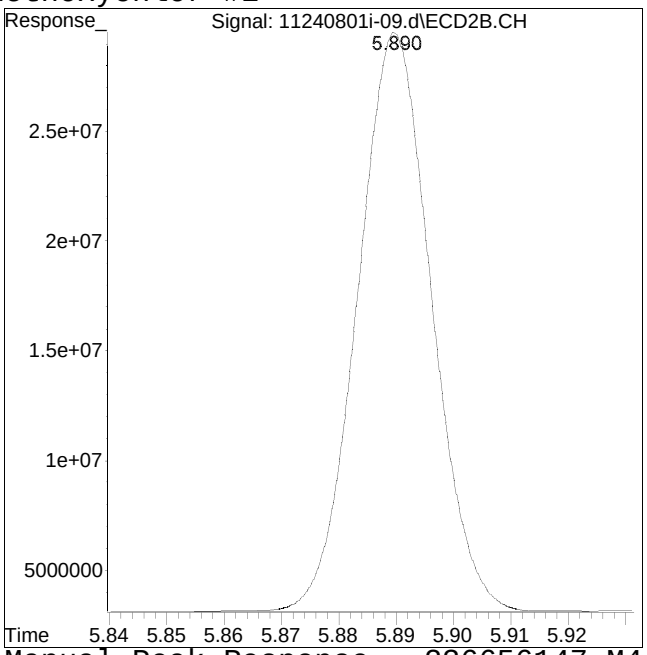
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #61: Methoxychlor #2



Original Peak Response = 242285941



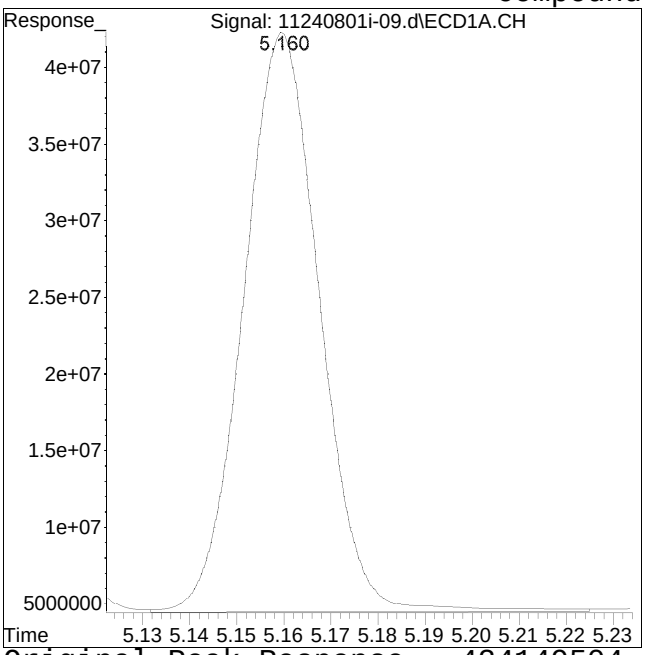
Manual Peak Response = 236656147 M4

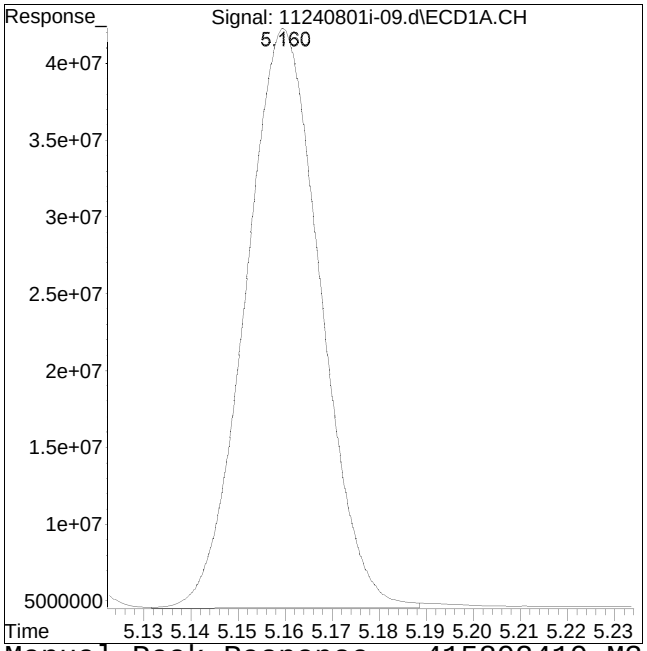
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #24: Mirex





Original Peak Response = 424149504 Manual Peak Response = 415802410 M3

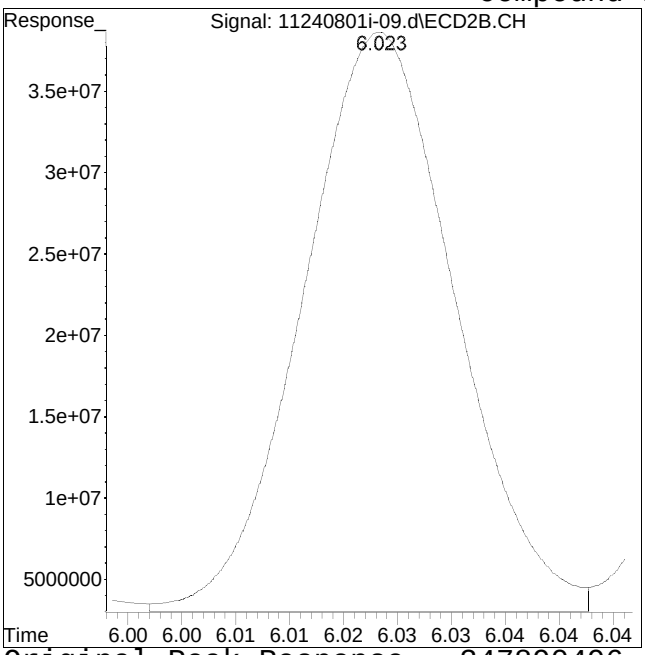
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

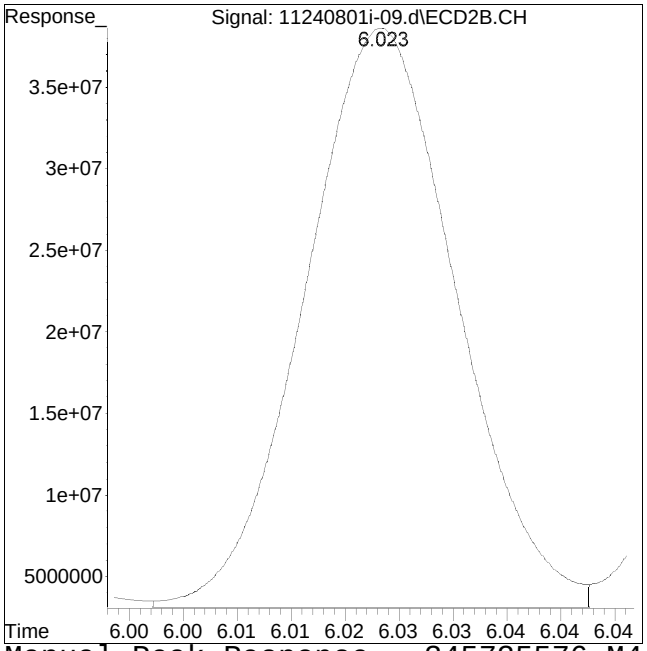
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #62: Mirex #2



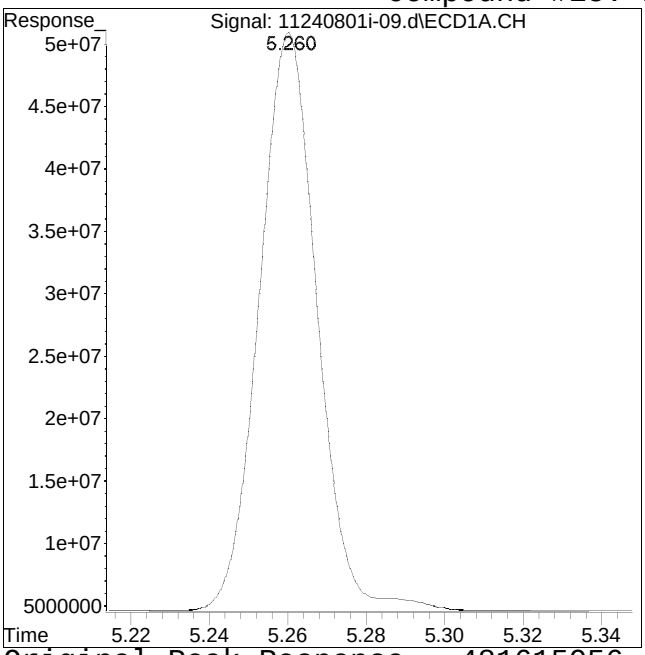


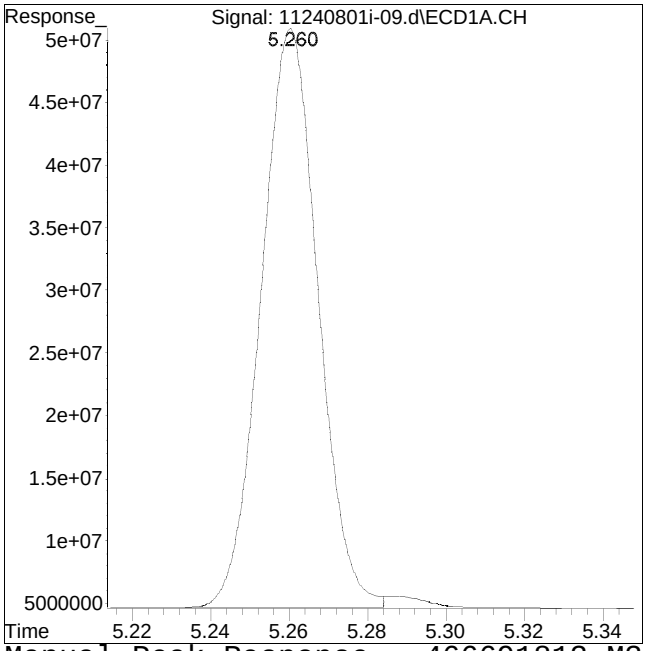
Original Peak Response = 347890496 Manual Peak Response = 345735576 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #25: Endosulfan Sulfate



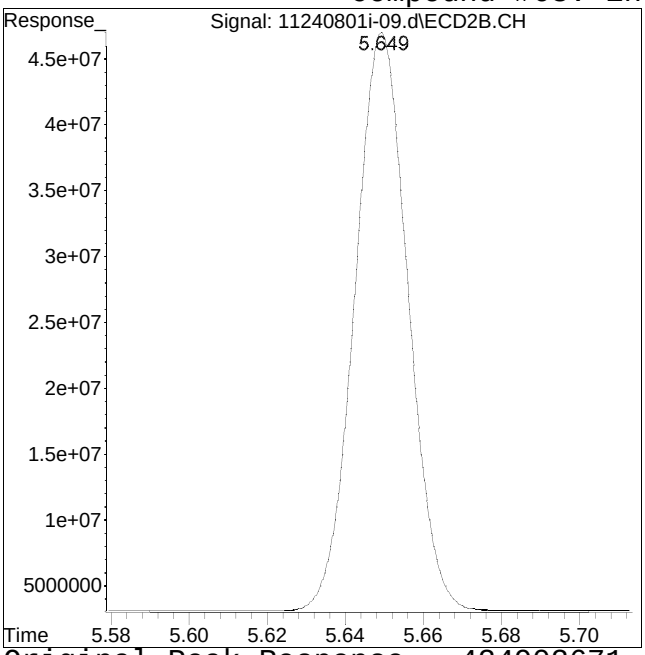


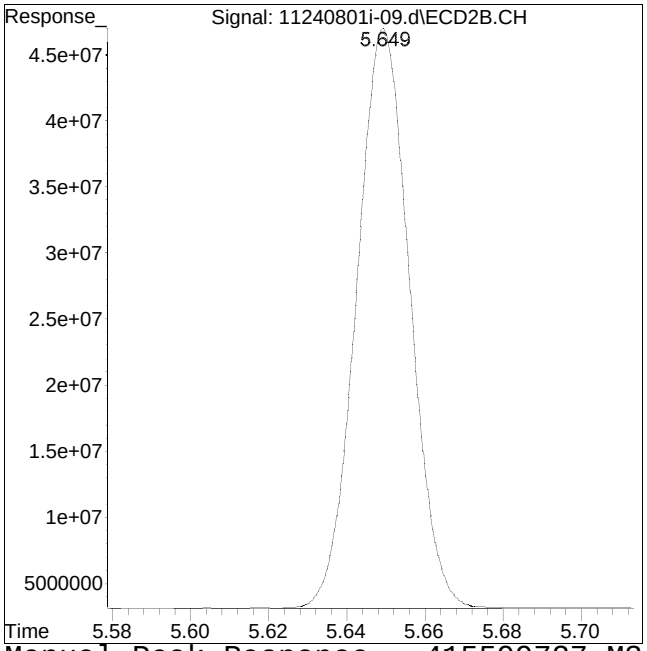
Original Peak Response = 481615956 Manual Peak Response = 466691813 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #63: Endosulfan Sulfate #2



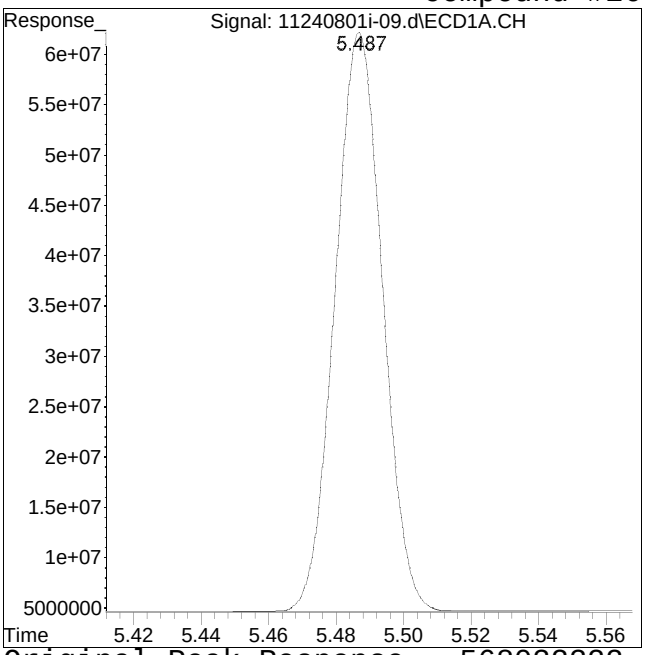


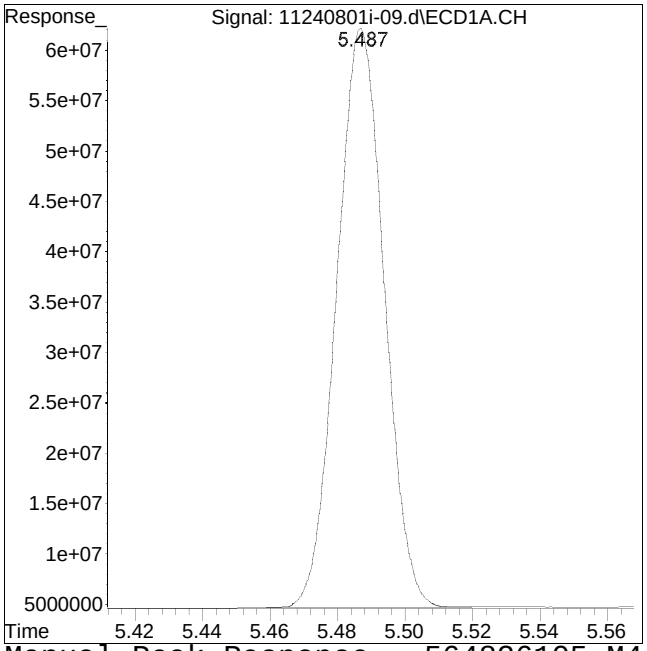
Original Peak Response = 424902671 Manual Peak Response = 415599727 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #26: Endrin Ketone





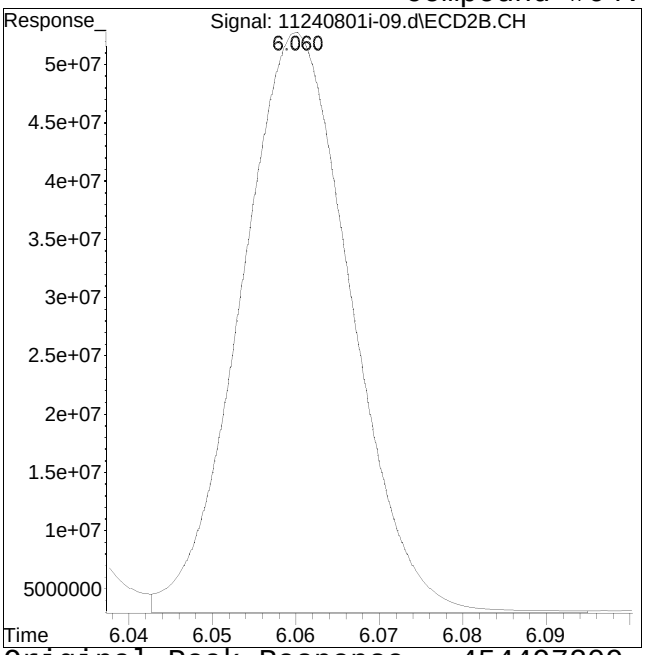
Original Peak Response = 568032322 Manual Peak Response = 564826105 M4
M4 = Poor automated baseline construction.

Manual Integration Report

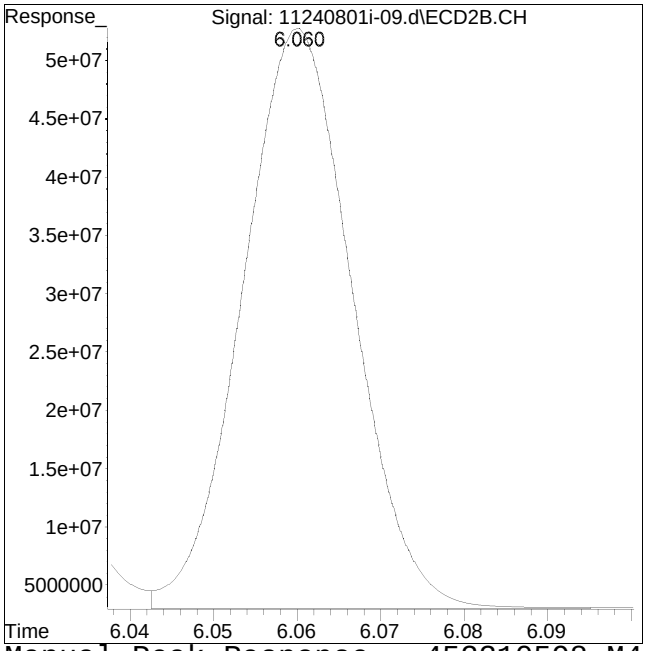
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #64: Endrin Ketone #2



Original Peak Response = 454497209



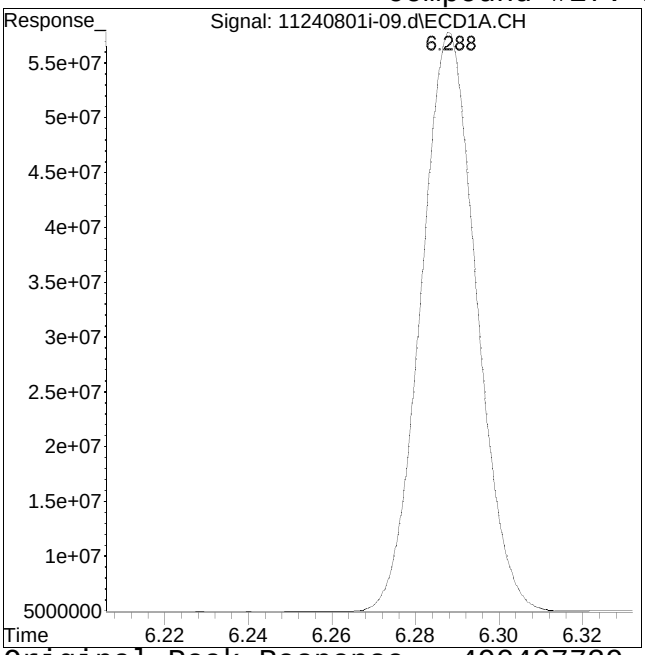
Manual Peak Response = 452310598 M4

M4 = Poor automated baseline construction.

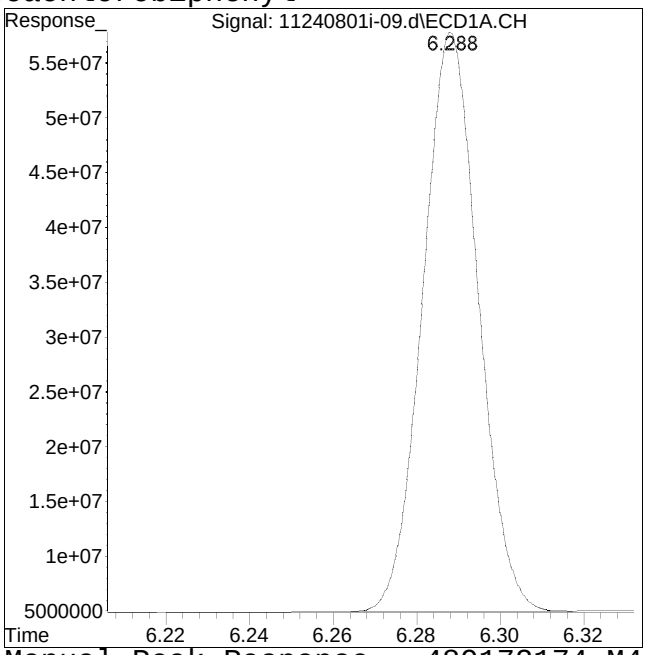
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-09.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 19:49 Instrument : Pest 11
Sample : il8pest,42e,,pp 11681 L0.0Quant Date : 8/2/2024 9:03 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 490497739



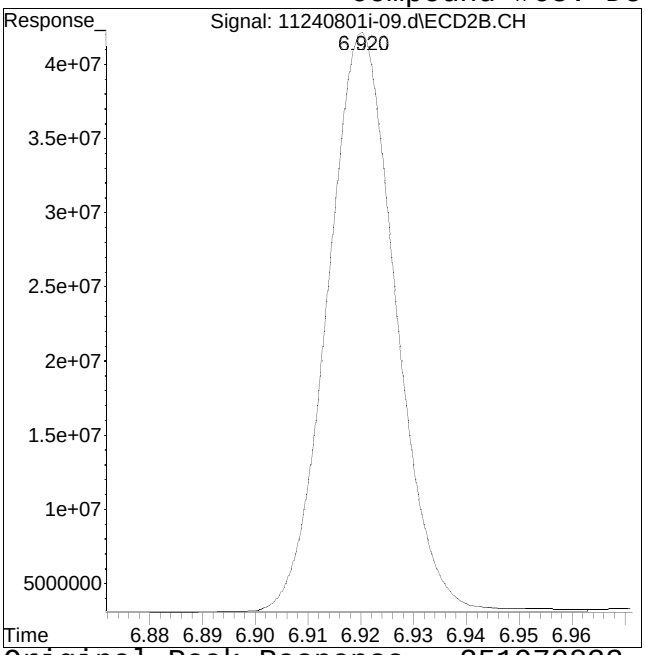
Manual Peak Response = 489172174 M4

M4 = Poor automated baseline construction.

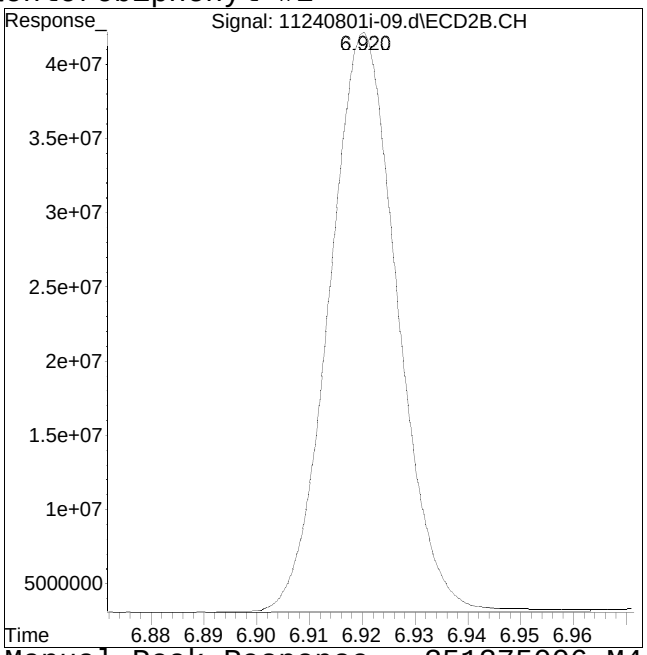
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-09.d
Date Inj'd : 8/1/2024 19:49
Sample : il8pest,42e,,pp 11681 L0.0
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:03 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 351972833



Manual Peak Response = 351375006 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.385	228.9E6	186.0E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	978.0E6	793.9E6	102.526M3	98.316M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		205.05%#	196.63%#
27) s	Decachlorobi	6.287	6.920	966.4E6	693.4E6	101.892M4	99.592M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		203.78%#	199.18%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	1254.4E6	852.0E6	101.913M3	99.956M4
4) t	alpha-BHC	1.963	2.271	1517.1E6	1291.2E6	104.962M3	102.929M3
5) t	gamma-BHC (l	2.165	2.556	1395.5E6	1162.9E6	104.626M4	102.486M4
6) t	beta-BHC	2.221	2.622	569.7E6	475.2E6	102.483M3	99.416M4
7) t	delta-BHC	2.349	2.889	1415.2E6	1188.9E6	105.152M4	103.238M4
8) t	Heptachlor	2.513	2.952	1281.7E6	1164.2E6	103.113M4	100.742
9) t	Aldrin	2.756	3.271	1234.2E6	1093.2E6	104.739M4	102.495
10) t	Alachlor	2.876	3.153	202.3E6	136.5E6	97.935M4	93.096M4
11) t	Chlorpyrifos	2.968	3.506	476.2E6	520.8E6	96.581M4	95.072

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.301	3.884	1132.0E6	1013.1E6	102.826M4	100.688M4
13)	t	gamma-Chlord	3.425	4.104	1037.3E6	931.1E6	105.142M4	102.239M4
14)	t	alpha-Chlord	3.559	4.274	1167.6E6	1027.5E6	104.255M3	101.638
15)	t	4,4'-DDE	3.657	4.473	1188.4E6	1034.3E6	105.852	103.171M4
16)	t	Endosulfan I	3.695	4.336	1073.0E6	944.4E6	103.673M3	100.715
17)	t	Dieldrin	3.955	4.627	1129.5E6	992.5E6	105.119M3	102.230M3
18)	t	Endrin	4.210	4.925	1134.9E6	1004.3E6	103.955M4	101.809M4
19)	t	4,4'-DDD	4.321	5.049	929.4E6	823.1E6	106.236M4	103.291M4
20)	t	Endosulfan I	4.451	5.125	1017.3E6	866.0E6	103.751	100.883M4
21)	t	4,4'-DDT	4.616	5.326	1043.2E6	939.1E6	105.189M4	102.870M4
22)	t	Endrin Aldeh	4.868	5.421	836.3E6	707.4E6	104.157M3	101.016M3
23)	t	Methoxychlor	5.104	5.890	519.3E6	461.0E6	100.292M4	98.297M4
24)	t	Mirex	5.160	6.023	822.7E6	677.1E6	102.053M4	98.827M4
25)	t	Endosulfan S	5.260	5.649	939.0E6	830.0E6	103.773M3	100.783M3
26)	t	Endrin Keton	5.487	6.060	1123.4E6	898.2E6	102.585M4	100.220M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

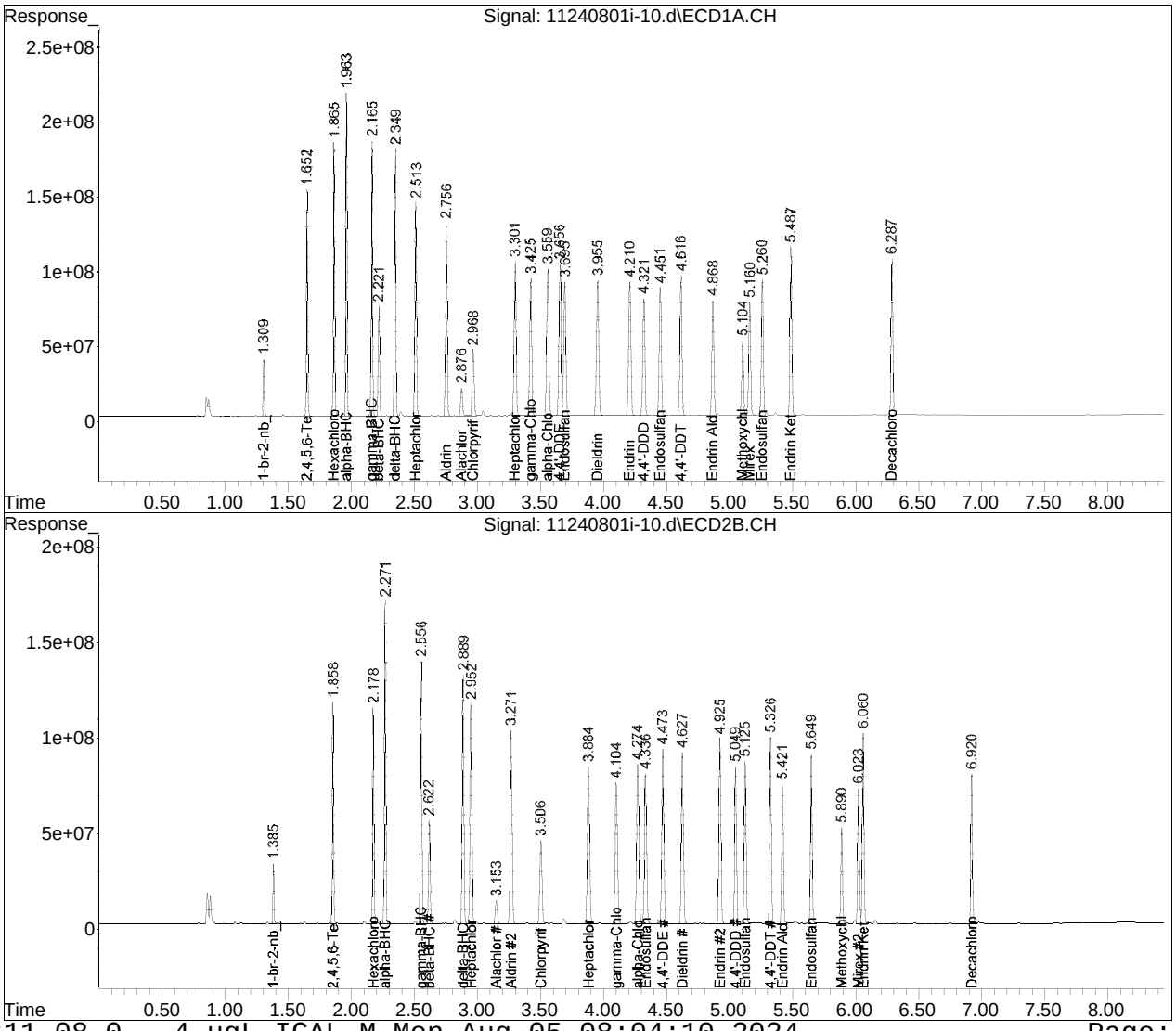
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:01
Operator : PEST11:ejl
Sample : il9pest,42e,,pp 11680 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:10:53 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:10:44 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

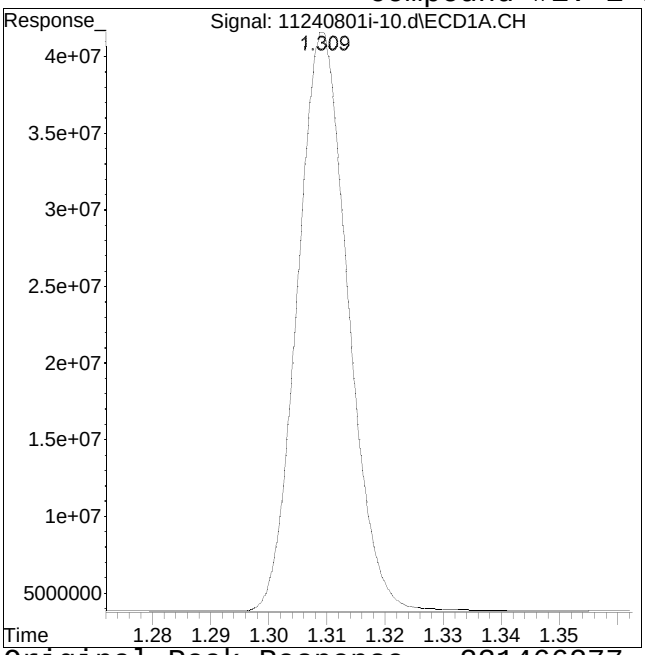


Manual Integration Report

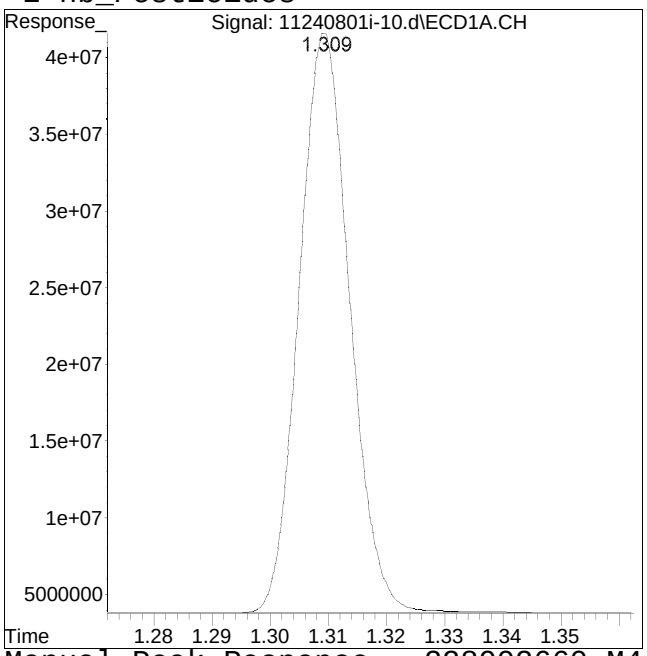
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 231466277



Manual Peak Response = 228902660 M4

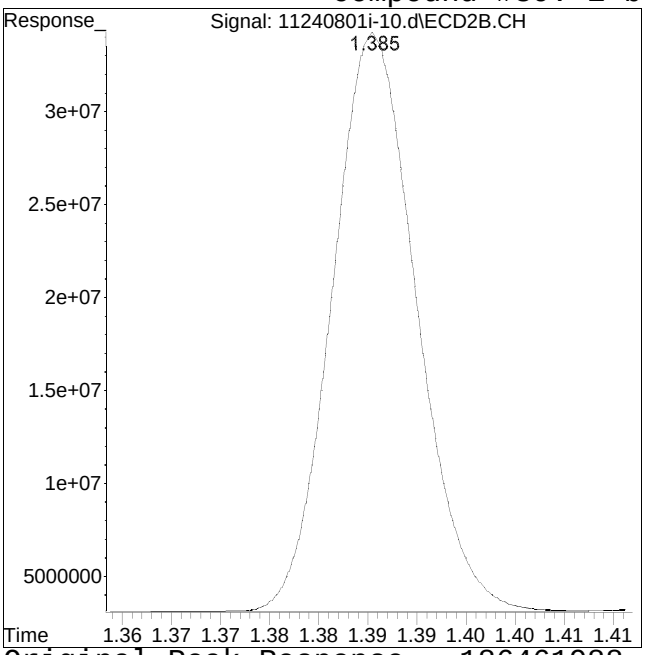
M4 = Poor automated baseline construction.

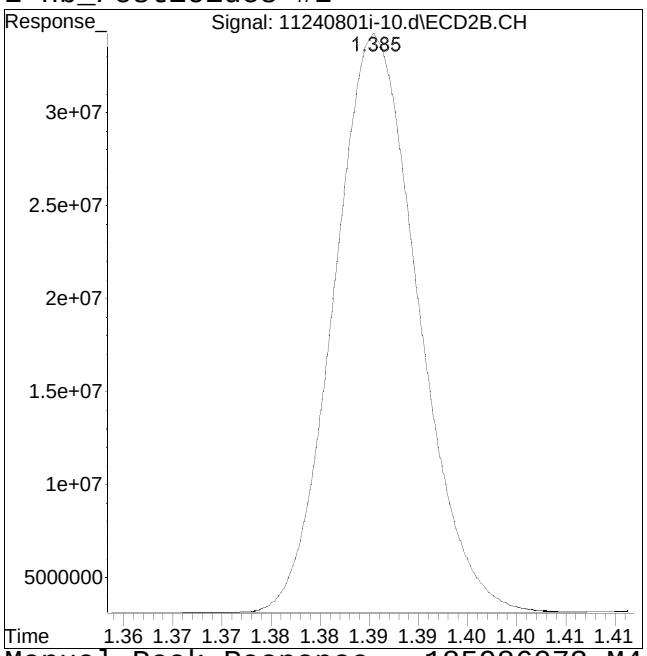
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #39: 1-br-2-nb_Pesticides #2



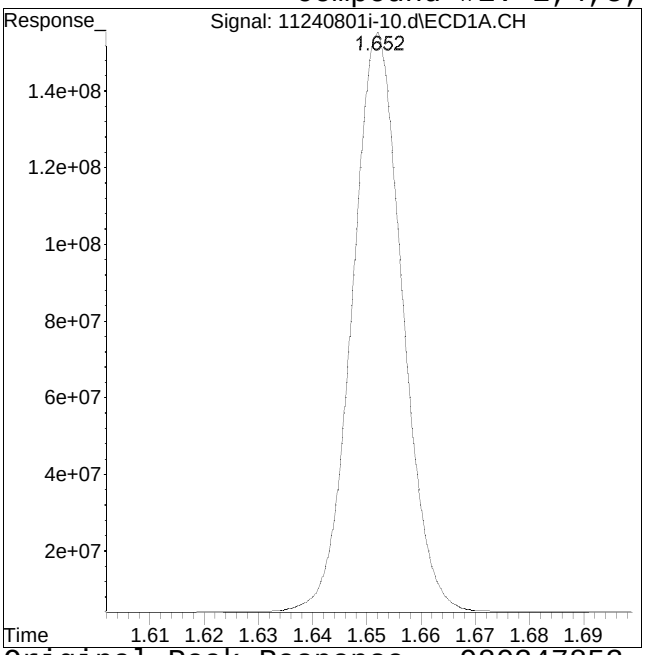


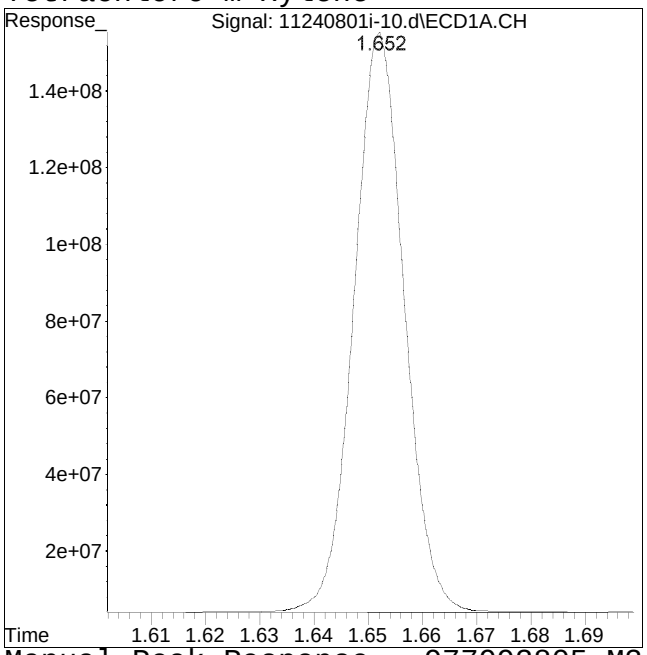
Original Peak Response = 186461988 Manual Peak Response = 185986073 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





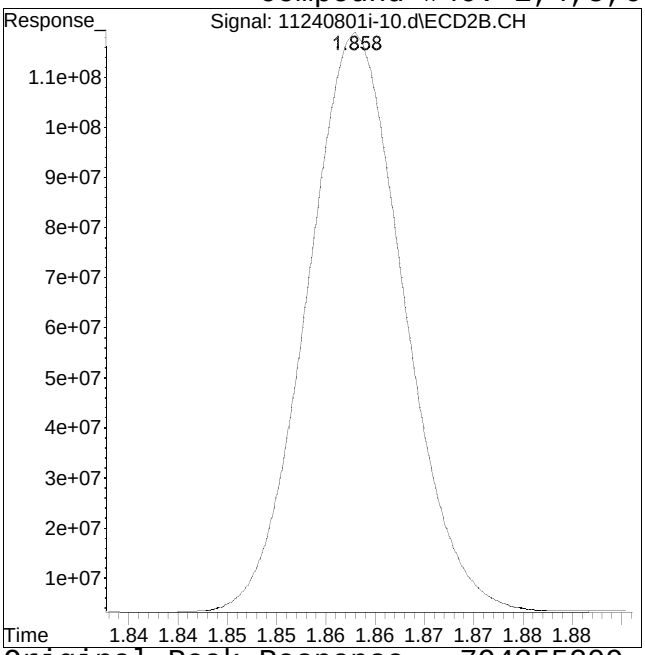
Original Peak Response = 980347853 Manual Peak Response = 977993805 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

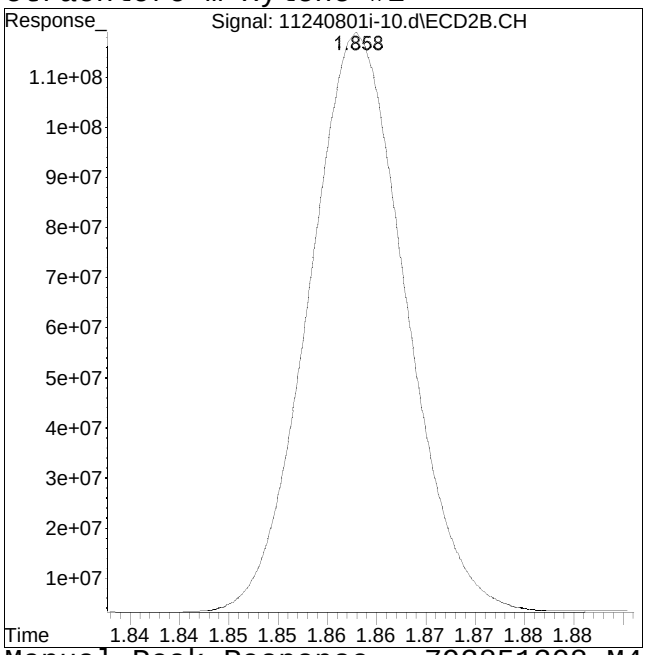
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 794355209



Manual Peak Response = 793851308 M4

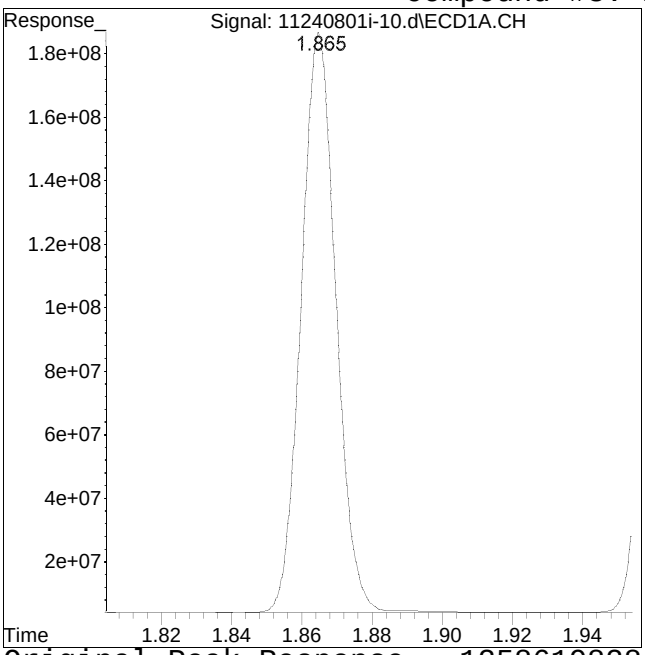
M4 = Poor automated baseline construction.

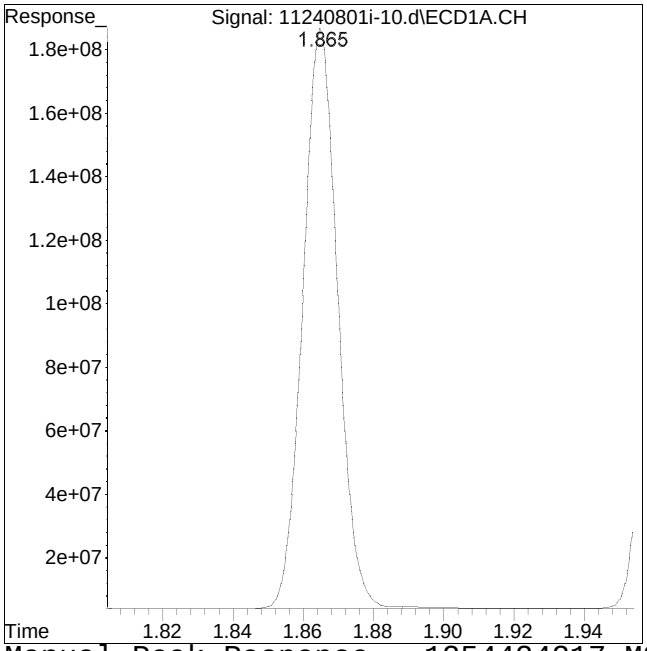
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #3: Hexachlorobenzene





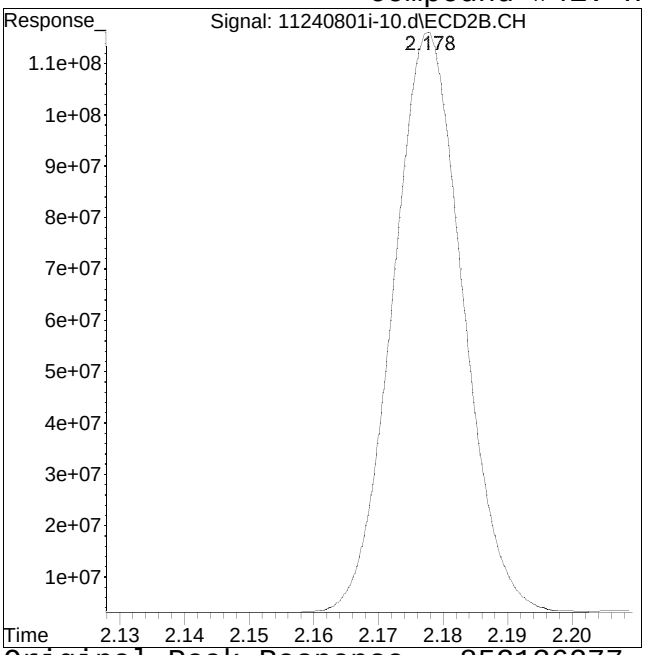
Original Peak Response = 1258619828 Manual Peak Response = 1254424217 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

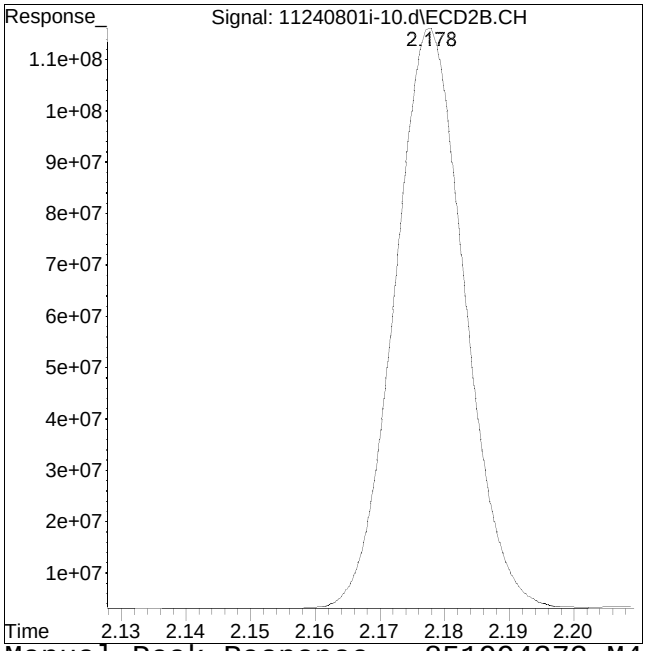
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #41: Hexachlorobenzene #2





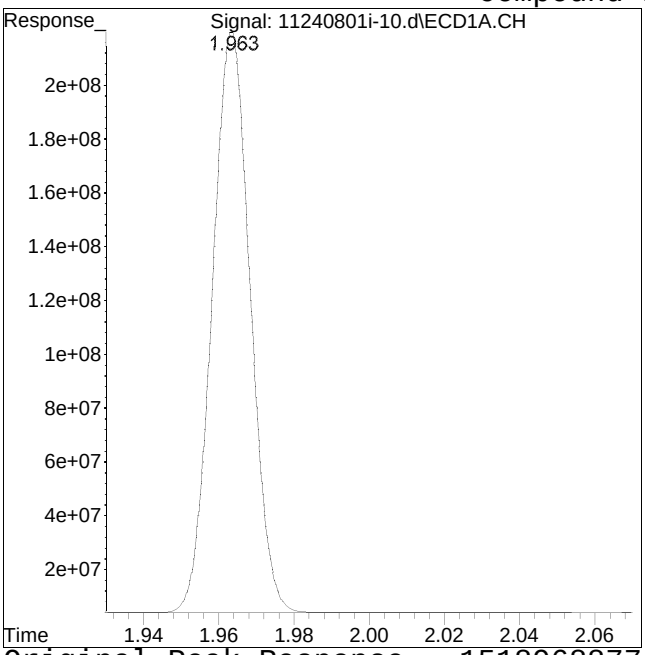
Original Peak Response = 852136277 Manual Peak Response = 851994373 M4
M4 = Poor automated baseline construction.

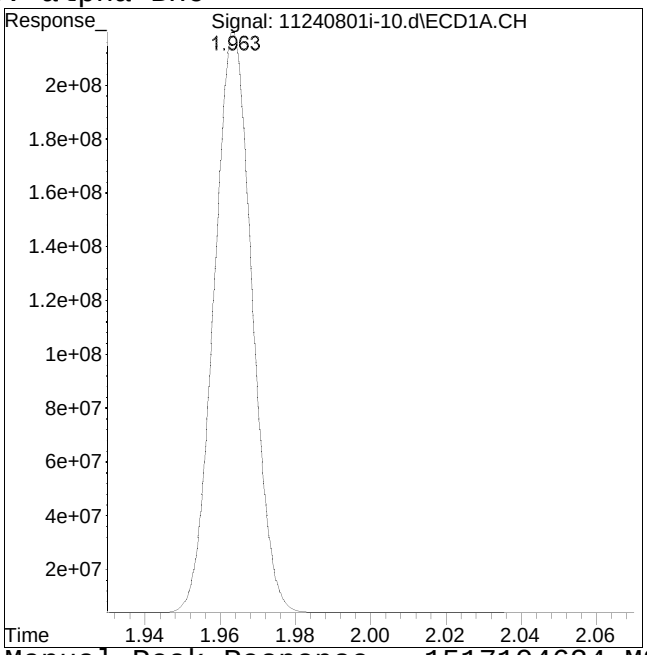
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #4: alpha-BHC



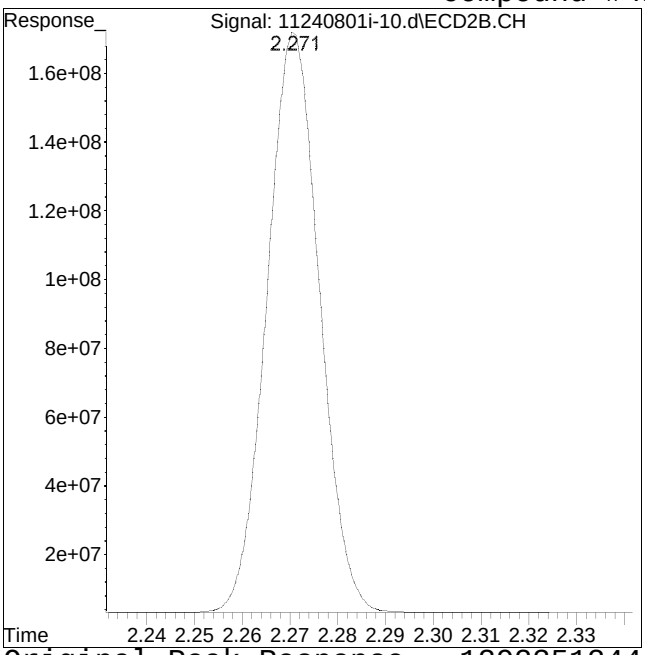


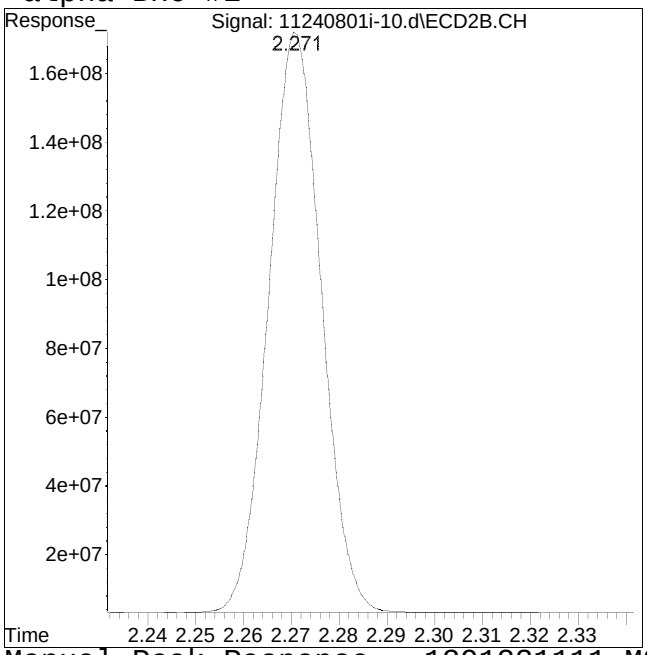
Original Peak Response = 1518968877 Manual Peak Response = 1517104624 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #42: alpha-BHC #2



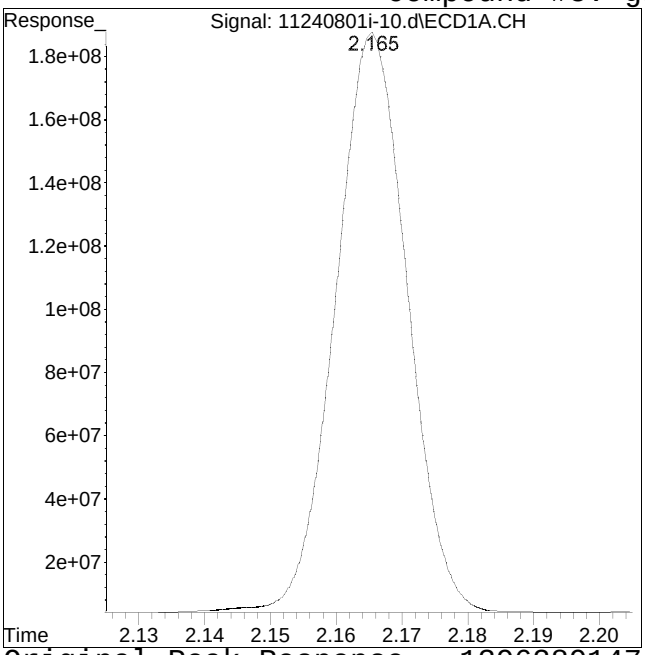


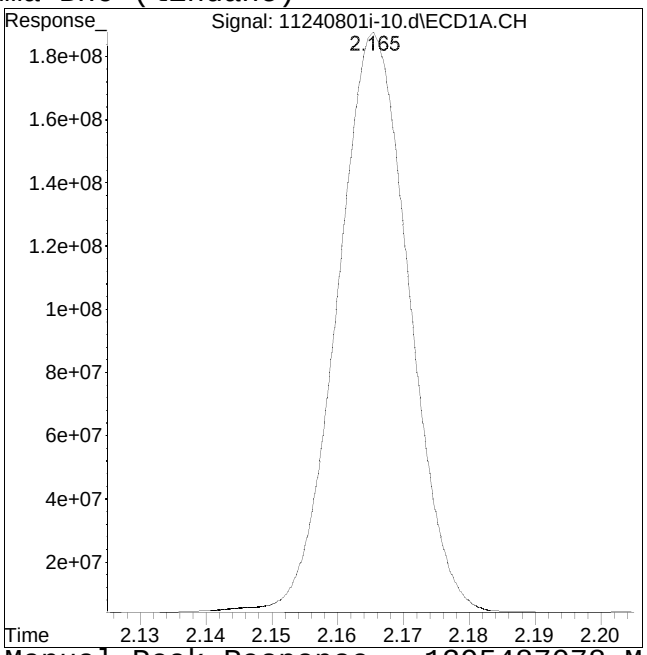
Original Peak Response = 1292351244 Manual Peak Response = 1291231111 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #5: gamma-BHC (lindane)





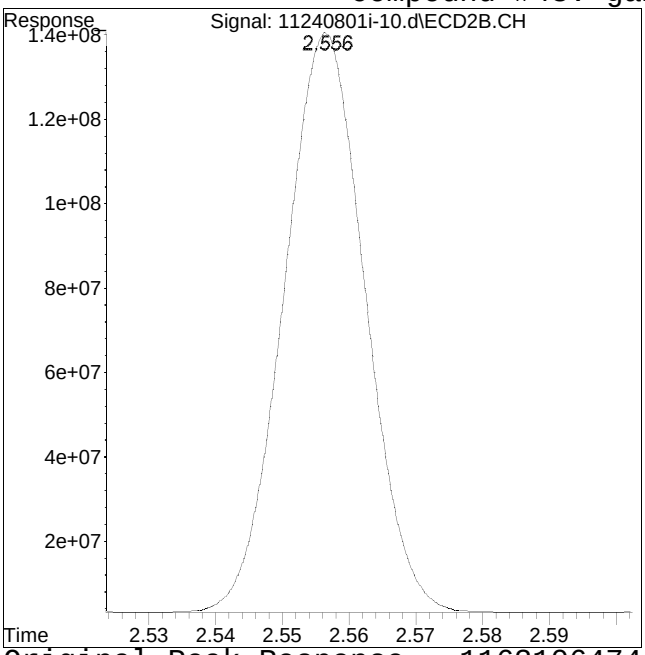
Original Peak Response = 1396289147 Manual Peak Response = 1395487078 M4
M4 = Poor automated baseline construction.

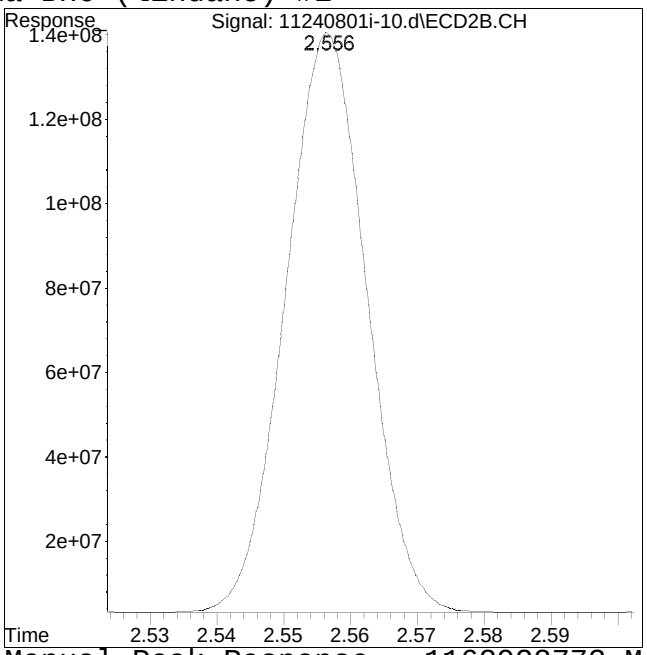
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #43: gamma-BHC (lindane) #2



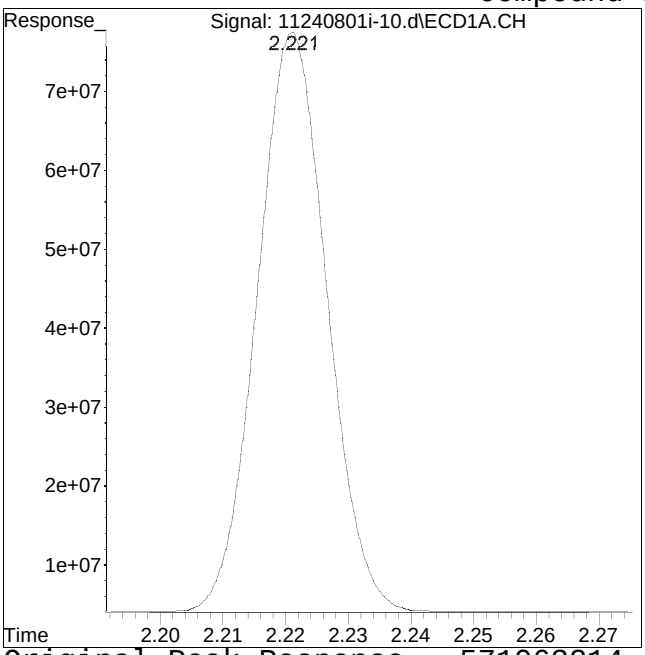


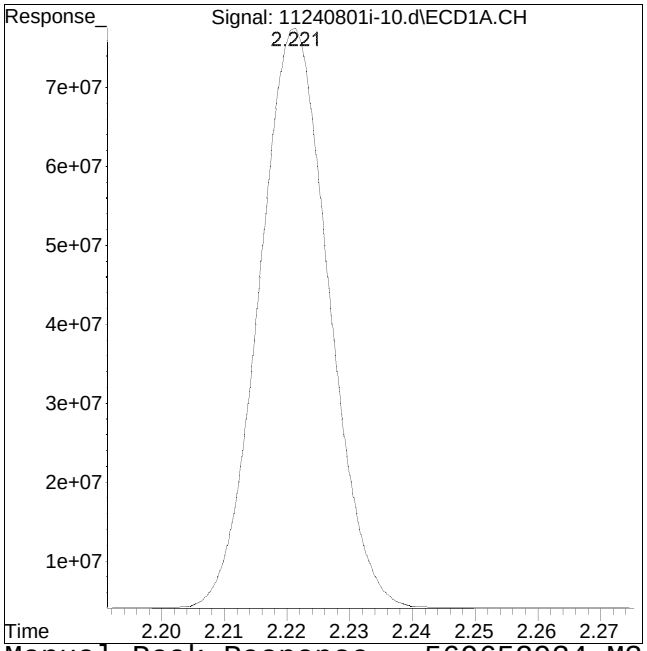
Original Peak Response = 1163106474 Manual Peak Response = 1162922773 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #6: beta-BHC





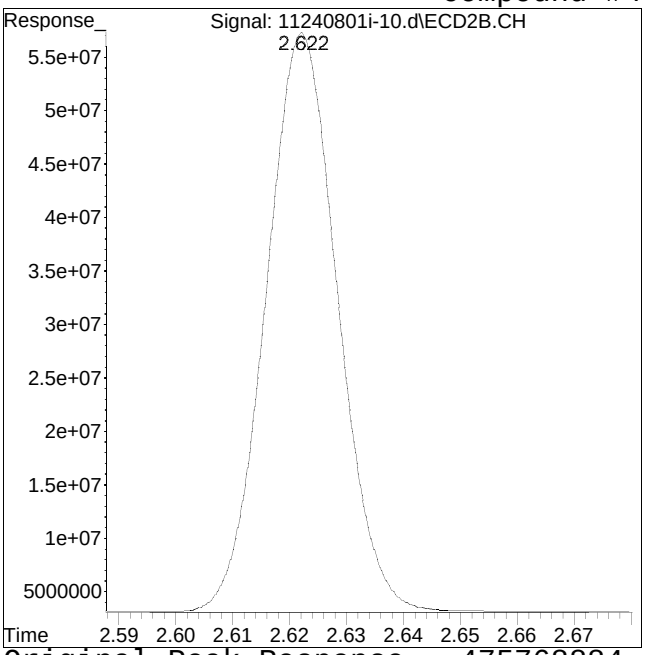
Original Peak Response = 571063214 Manual Peak Response = 569652934 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

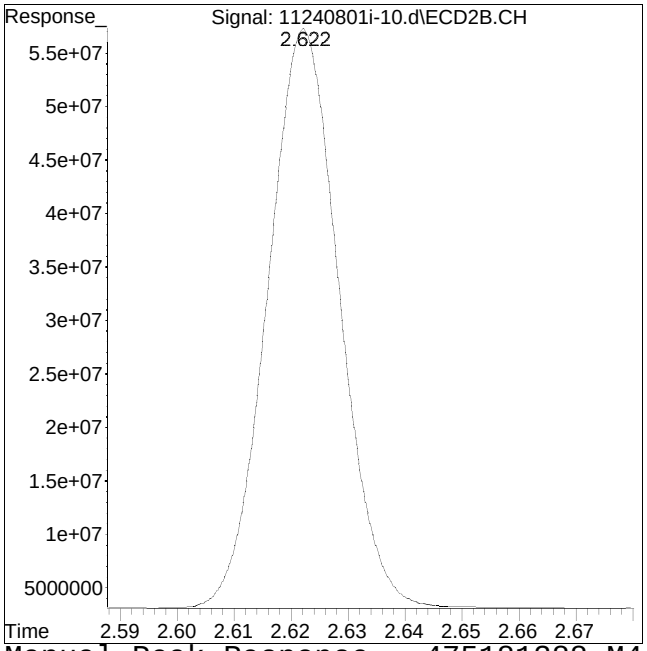
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #44: beta-BHC #2



Original Peak Response = 475768884



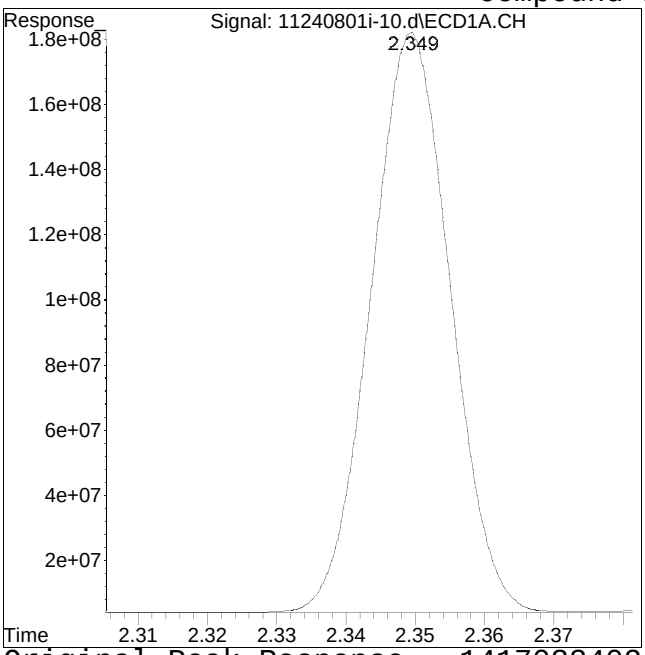
Manual Peak Response = 475181388 M4

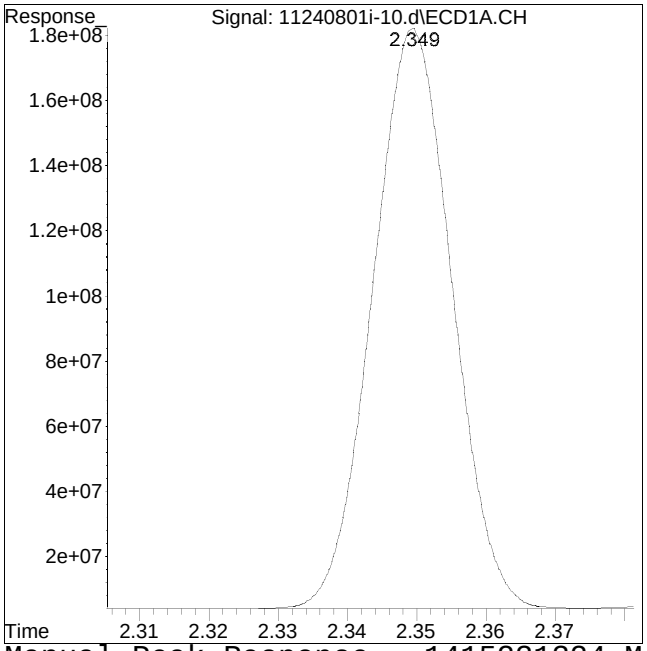
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #7: delta-BHC



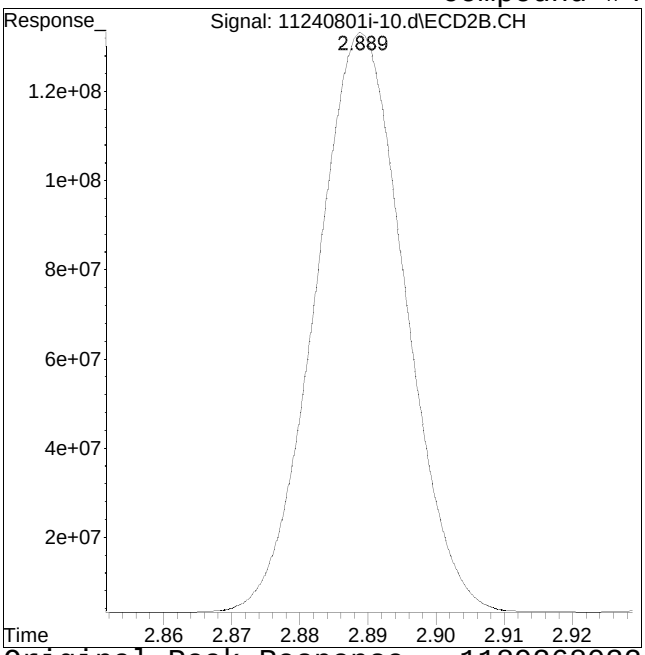


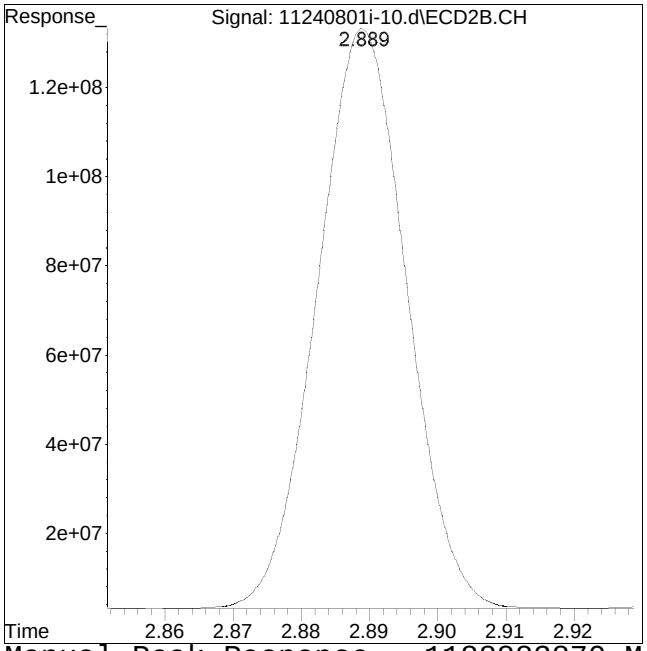
Original Peak Response = 1417033402 Manual Peak Response = 1415231324 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #45: delta-BHC #2





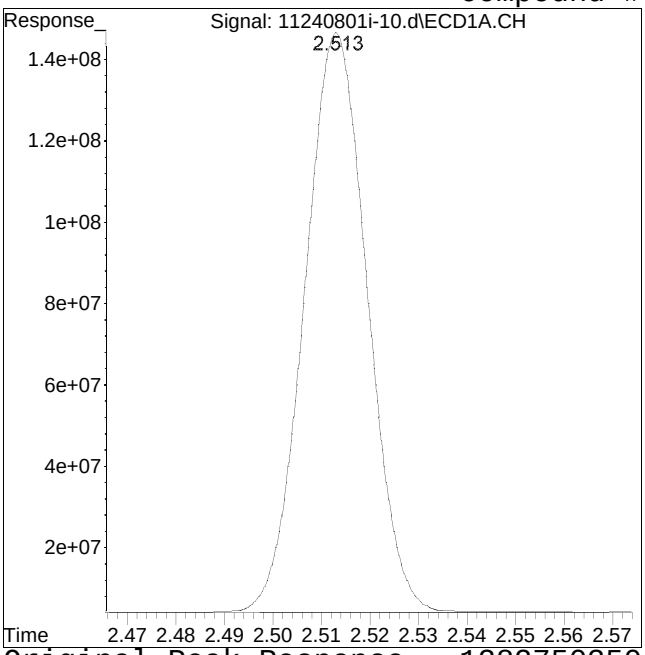
Original Peak Response = 1189268032 Manual Peak Response = 1188883870 M4
M4 = Poor automated baseline construction.

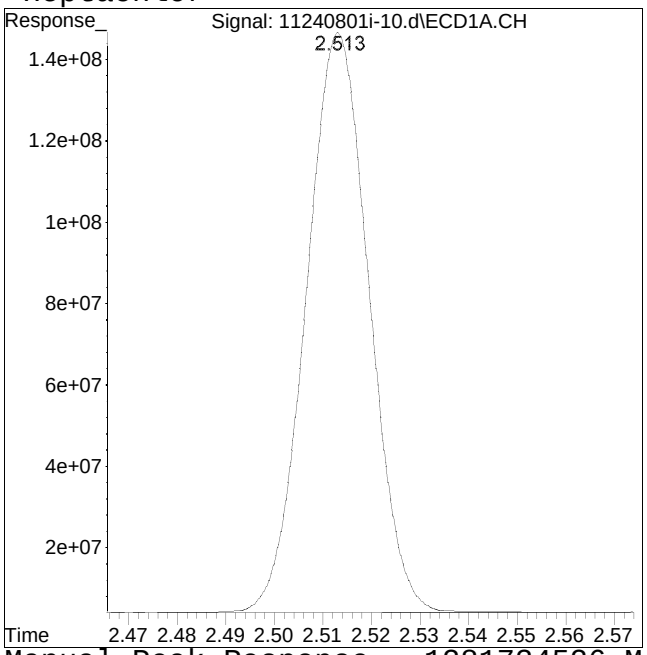
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #8: Heptachlor





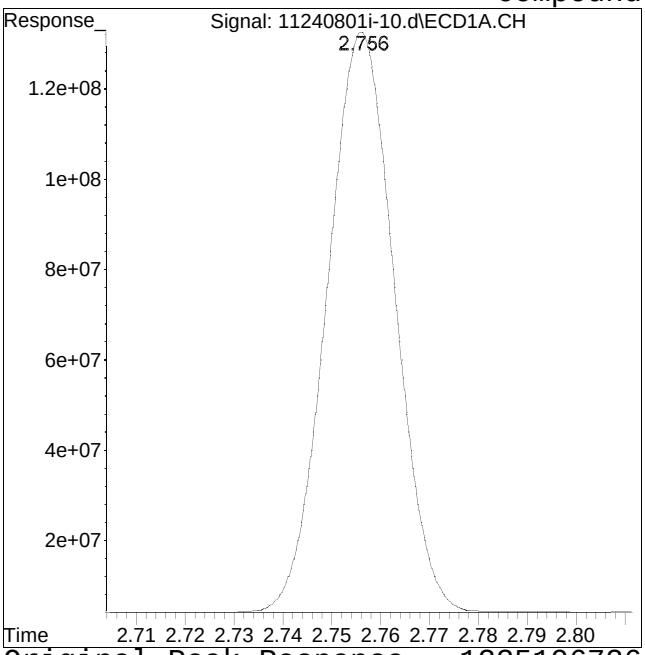
Original Peak Response = 1282750350 Manual Peak Response = 1281734526 M4
M4 = Poor automated baseline construction.

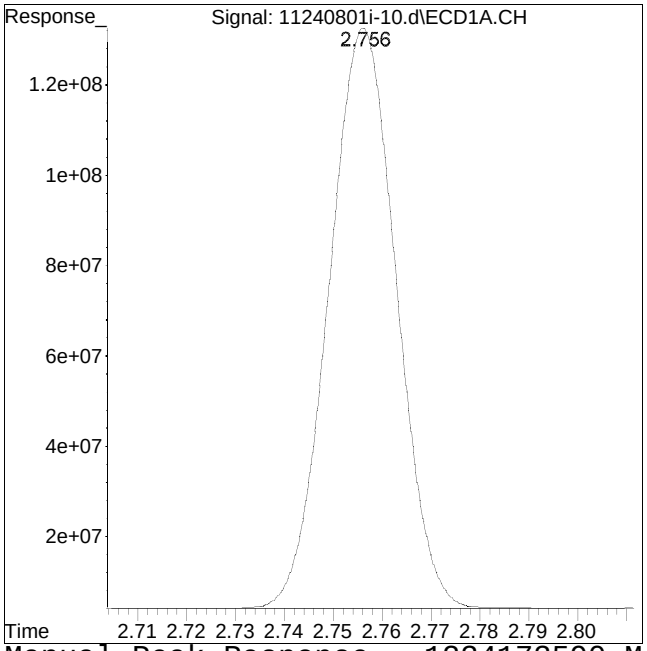
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #9: Aldrin





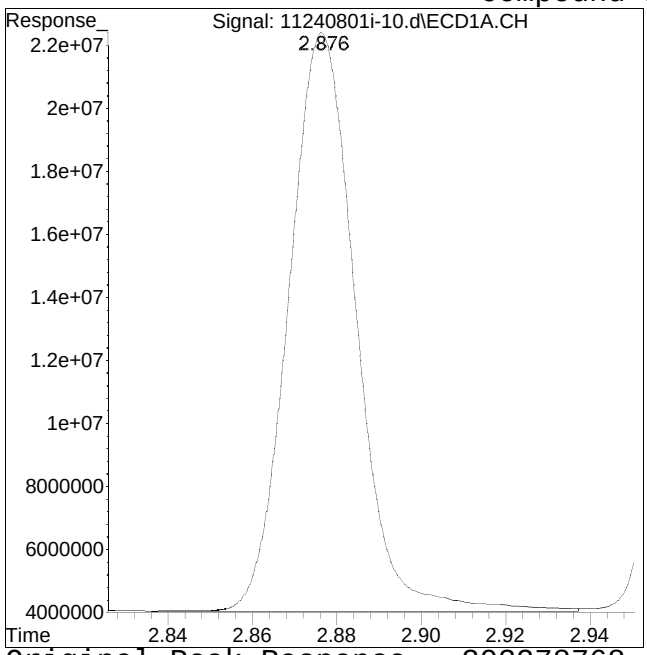
Original Peak Response = 1235196726 Manual Peak Response = 1234173590 M4
M4 = Poor automated baseline construction.

Manual Integration Report

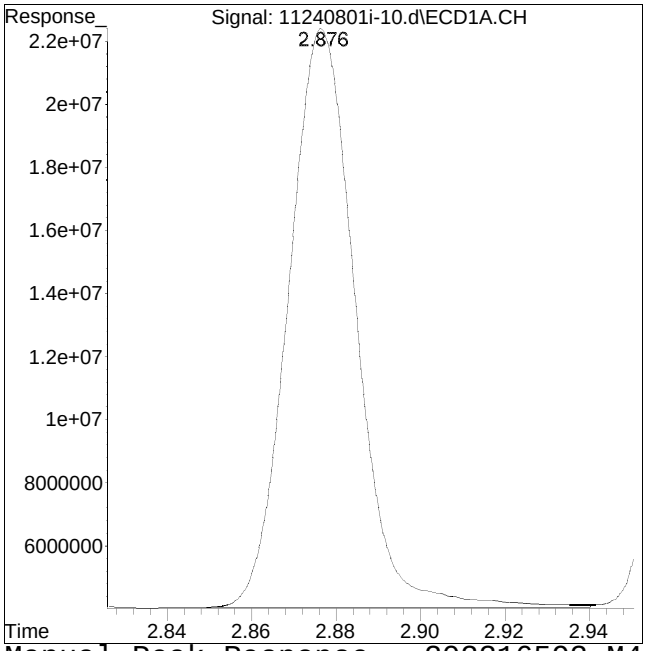
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #10: Alachlor



Original Peak Response = 203278768



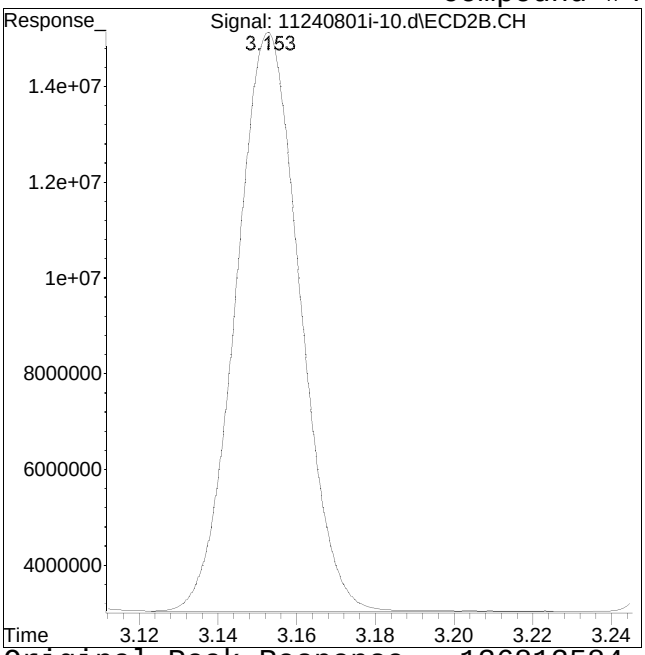
Manual Peak Response = 202316593 M4

M4 = Poor automated baseline construction.

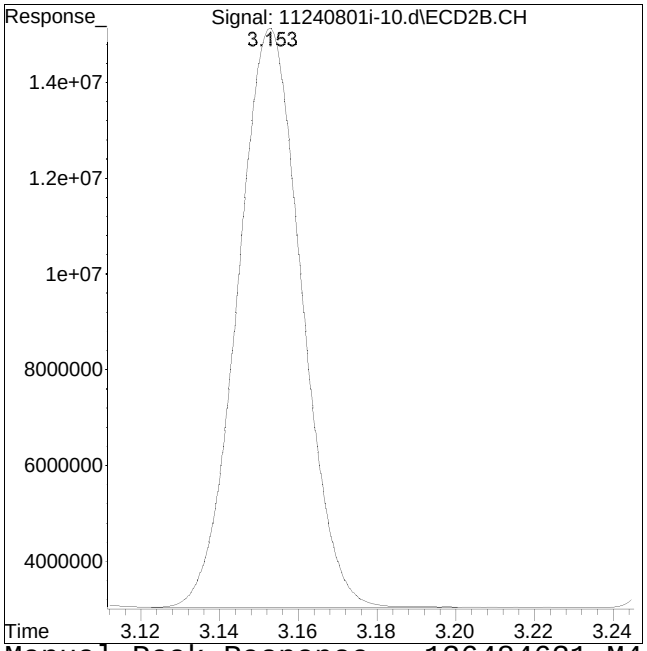
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #48: Alachlor #2



Original Peak Response = 136812584



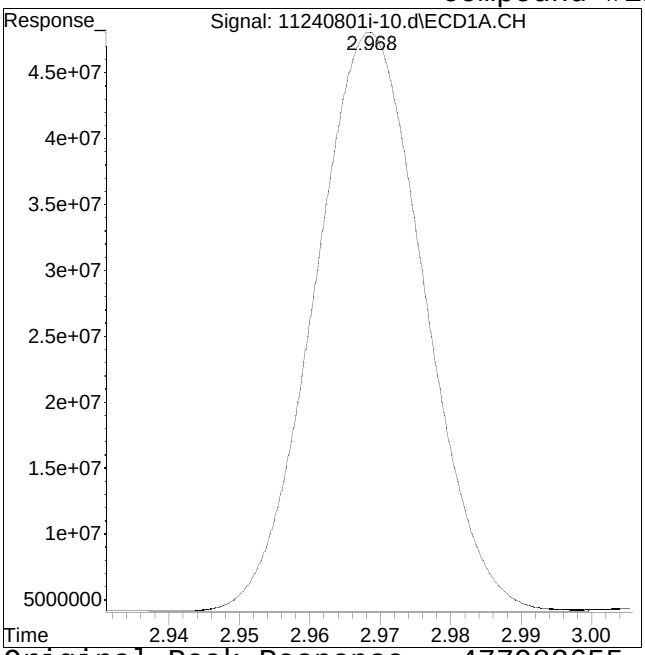
Manual Peak Response = 136484631 M4
M4 = Poor automated baseline construction.

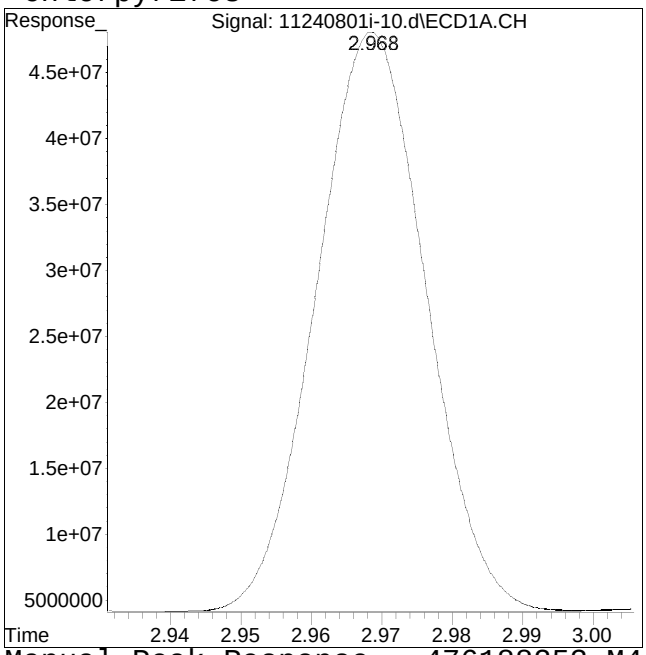
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #11: Chlorpyrifos



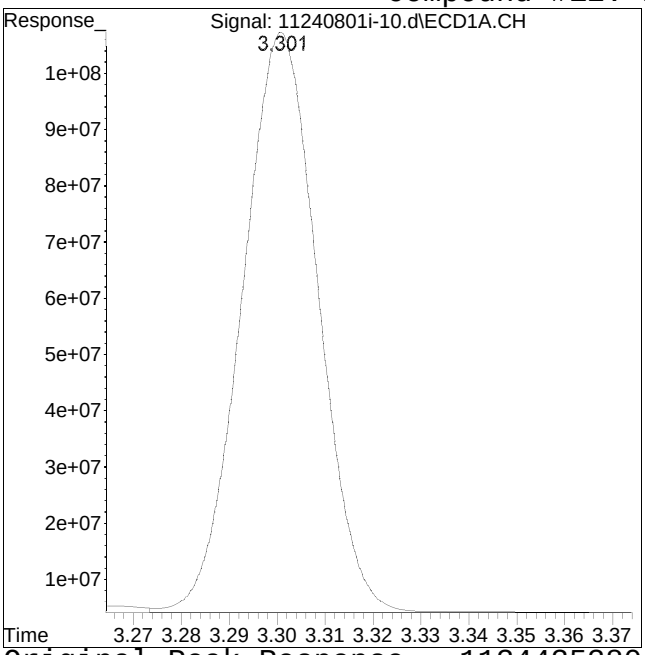


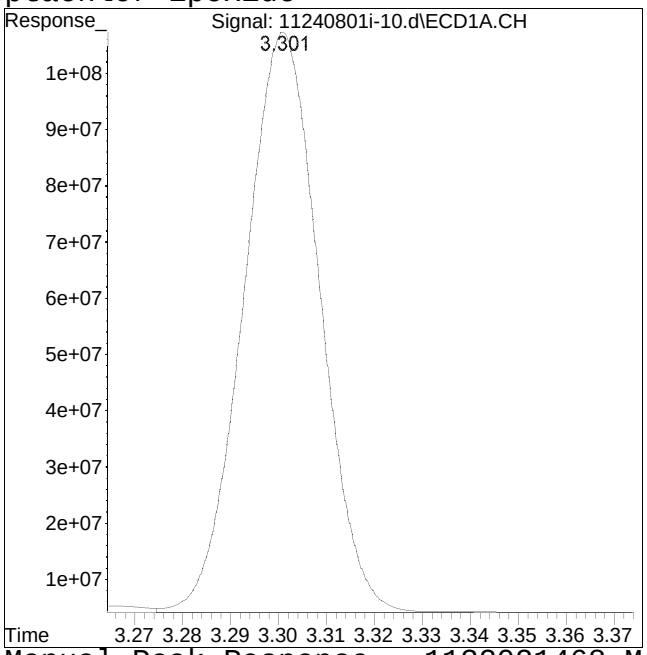
Original Peak Response = 477982655 Manual Peak Response = 476188253 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #12: Heptachlor Epoxide



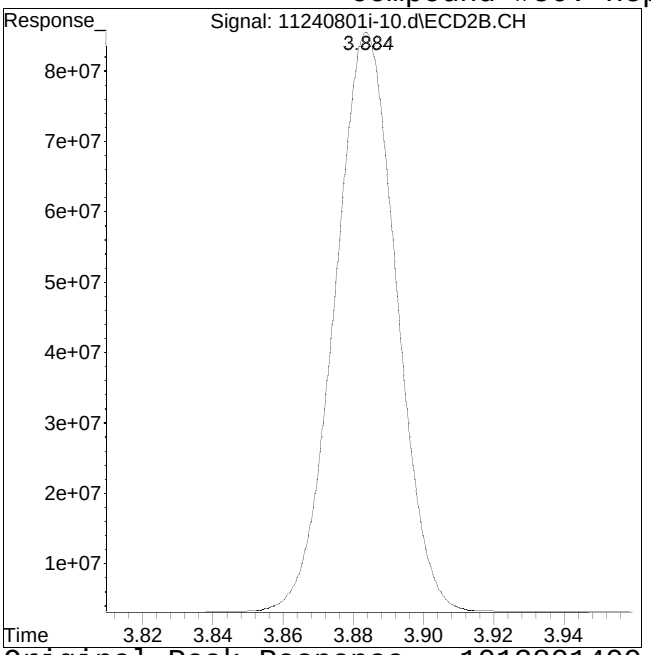


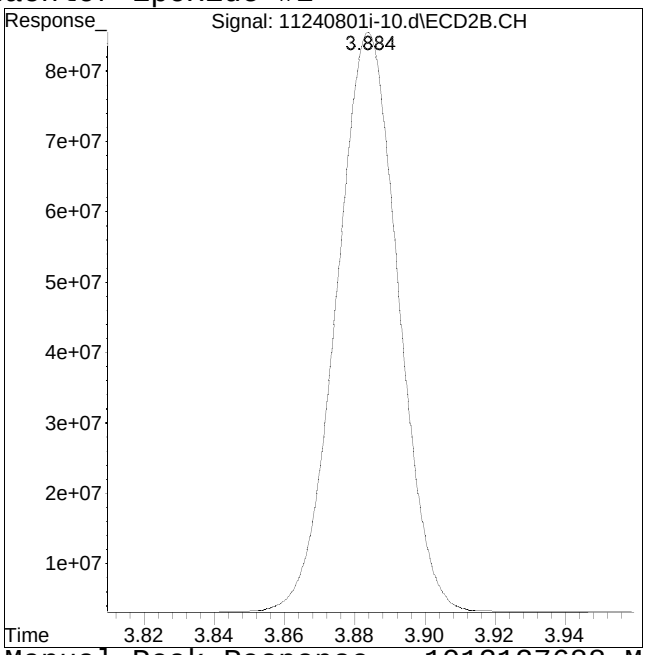
Original Peak Response = 1134435380 Manual Peak Response = 1132021468 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #50: Heptachlor Epoxide #2





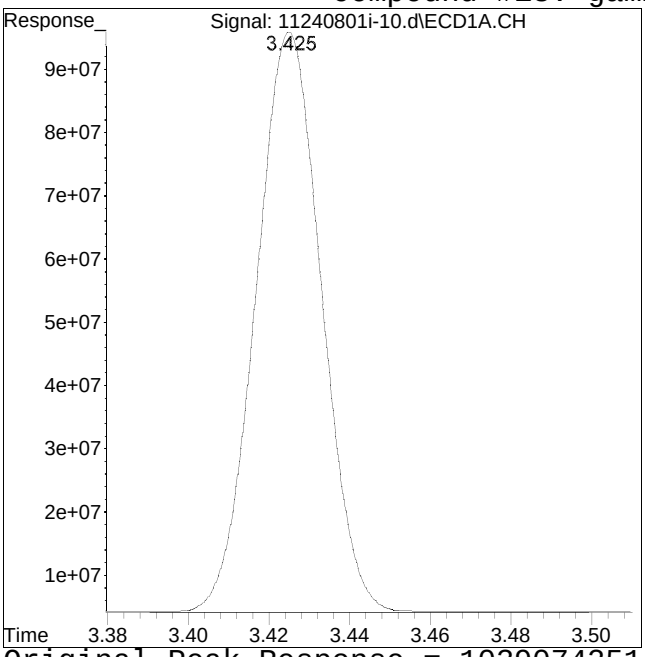
Original Peak Response = 1013801409 Manual Peak Response = 1013127688 M4
M4 = Poor automated baseline construction.

Manual Integration Report

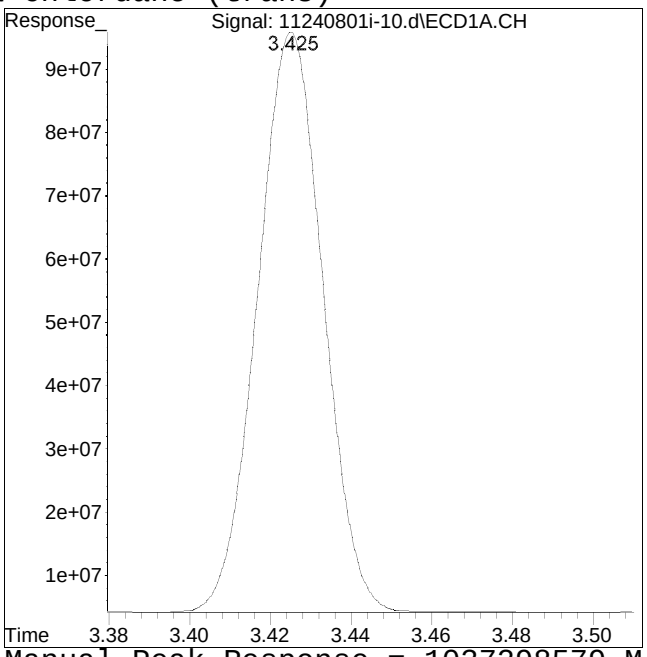
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 1039074251



Manual Peak Response = 1037298579 M4

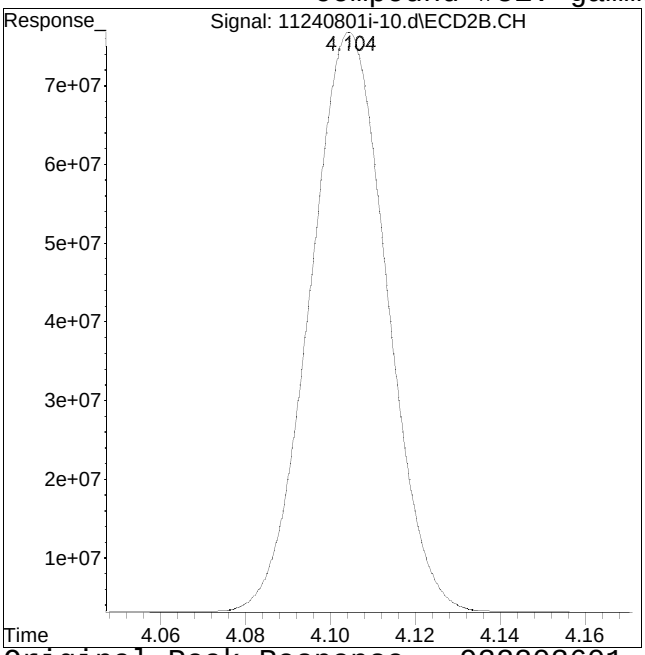
M4 = Poor automated baseline construction.

Manual Integration Report

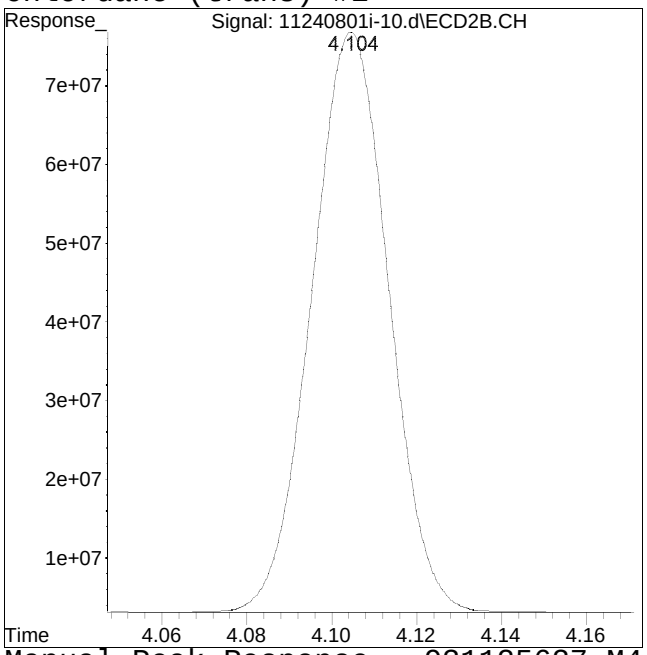
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 932203601



Manual Peak Response = 931125627 M4

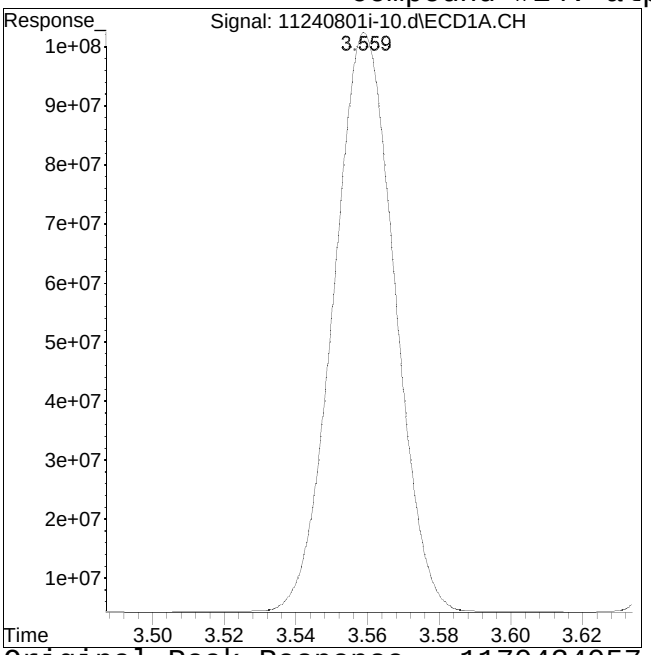
M4 = Poor automated baseline construction.

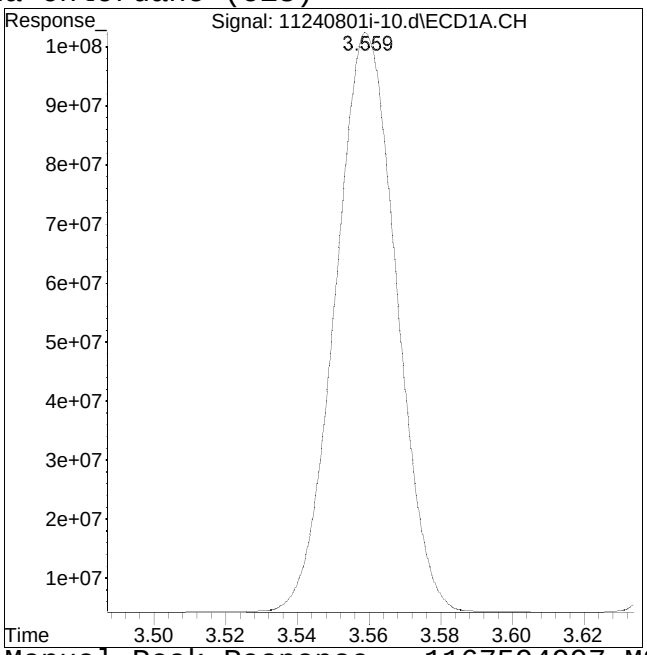
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #14: alpha-Chlordane (cis)





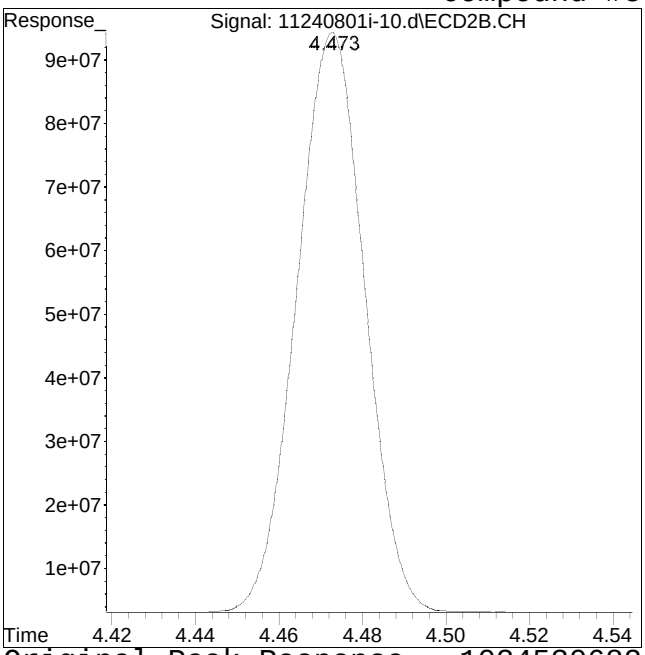
Original Peak Response = 1170434057 Manual Peak Response = 1167594997 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

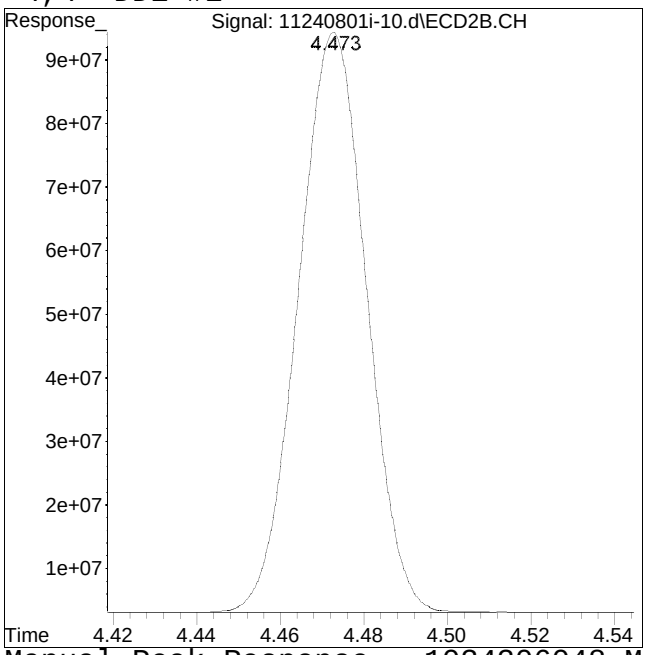
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #53: 4,4'-DDE #2





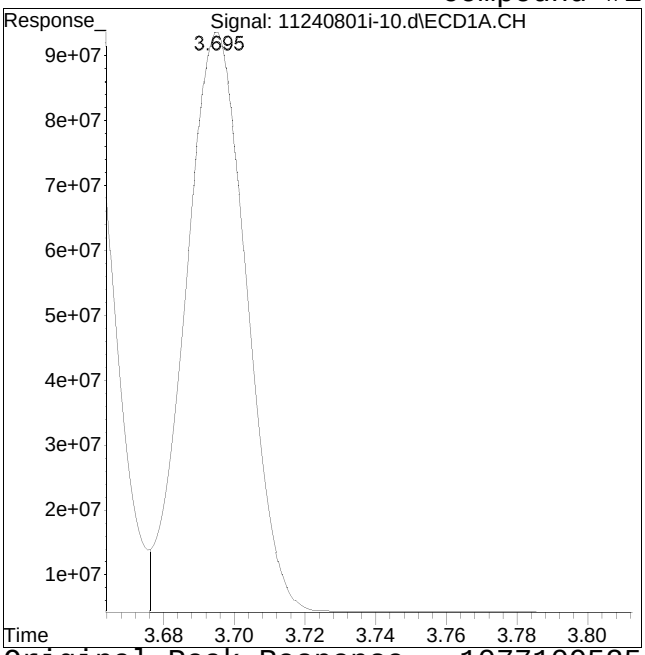
Original Peak Response = 1034530682 Manual Peak Response = 1034306048 M4
M4 = Poor automated baseline construction.

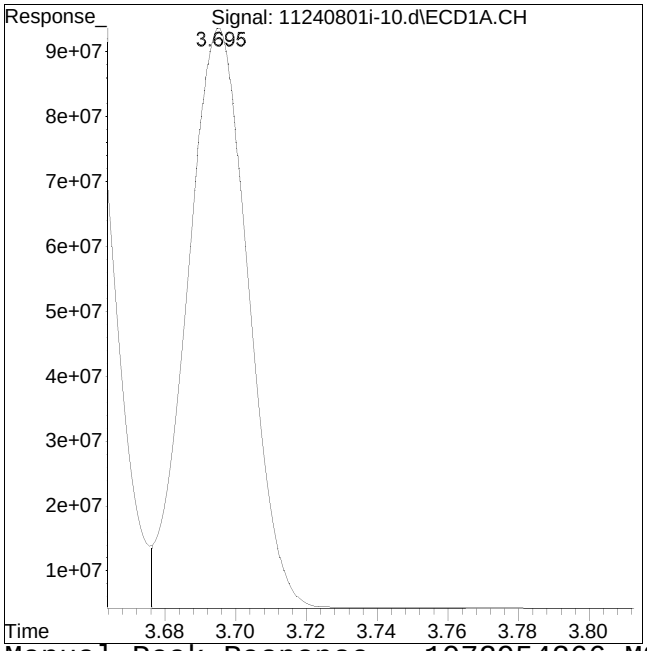
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #16: Endosulfan I



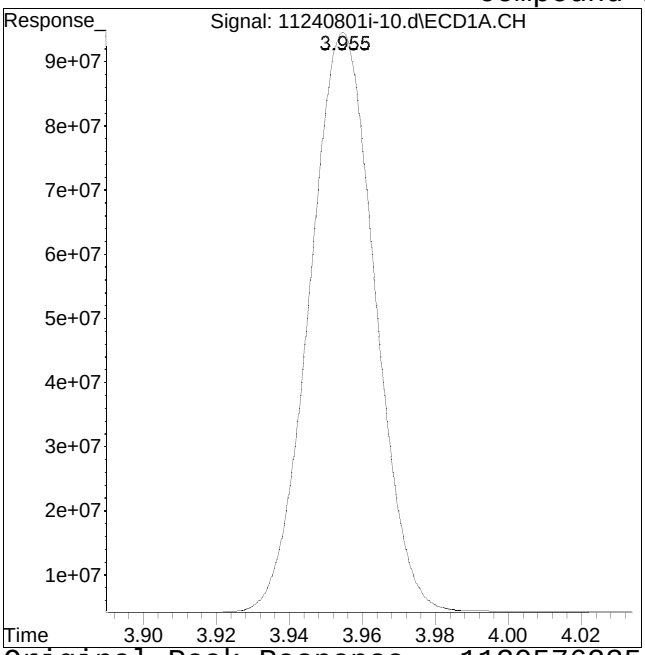


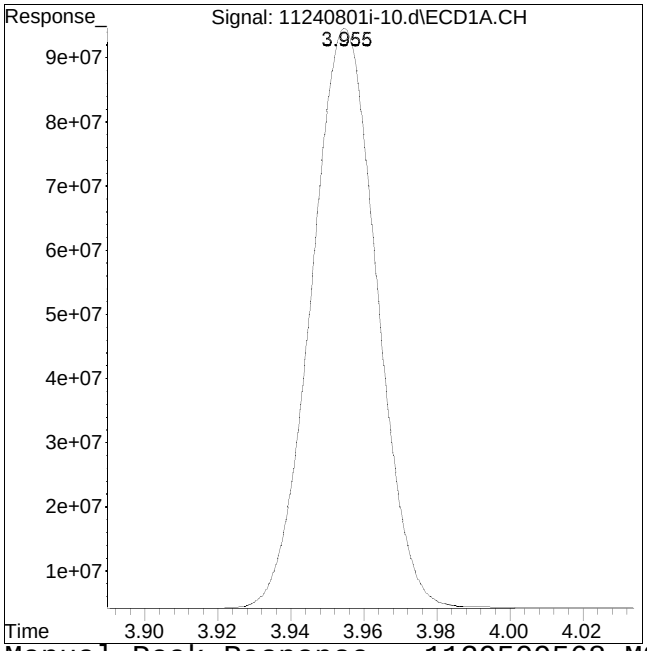
Original Peak Response = 1077109525 Manual Peak Response = 1072954266 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #17: Dieldrin



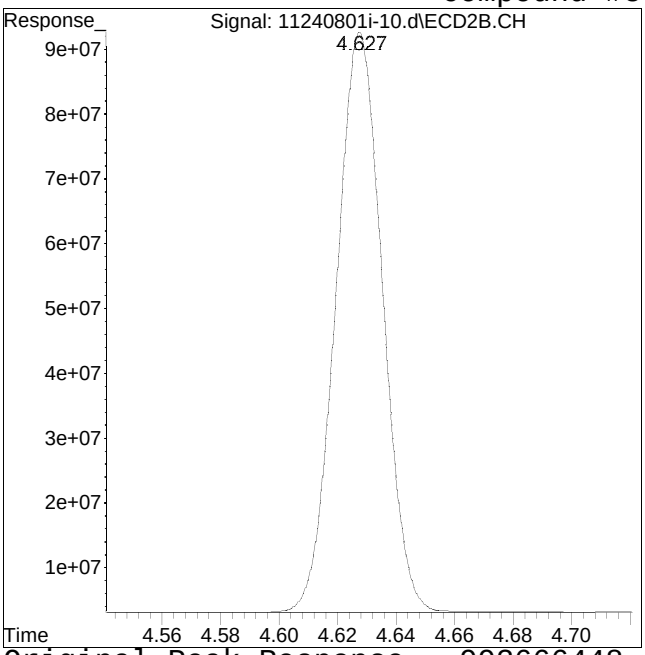


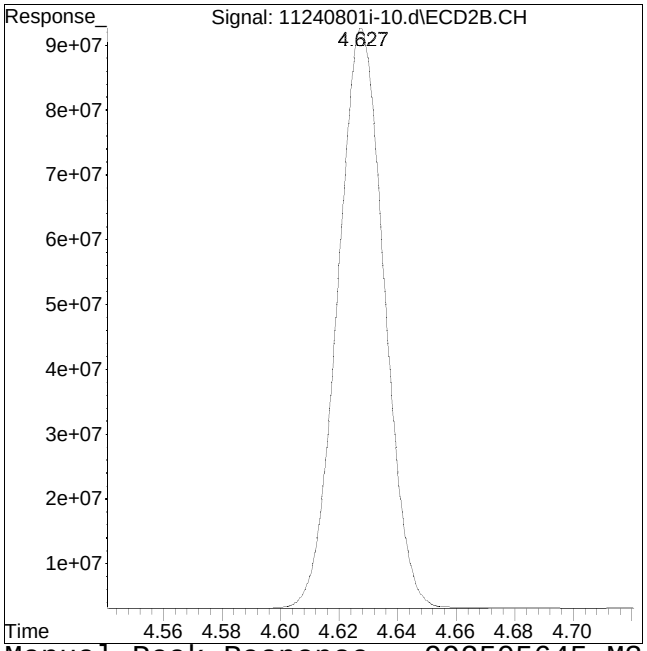
Original Peak Response = 1130576235 Manual Peak Response = 1129509568 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #55: Dieldrin #2



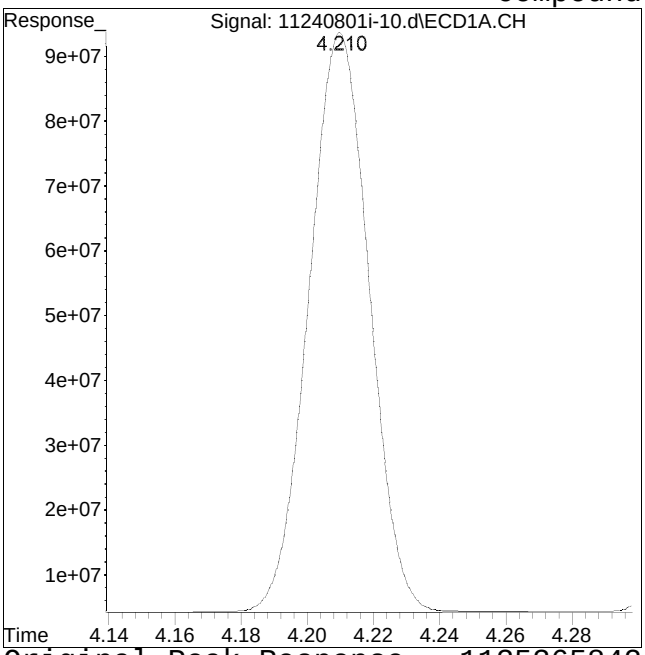


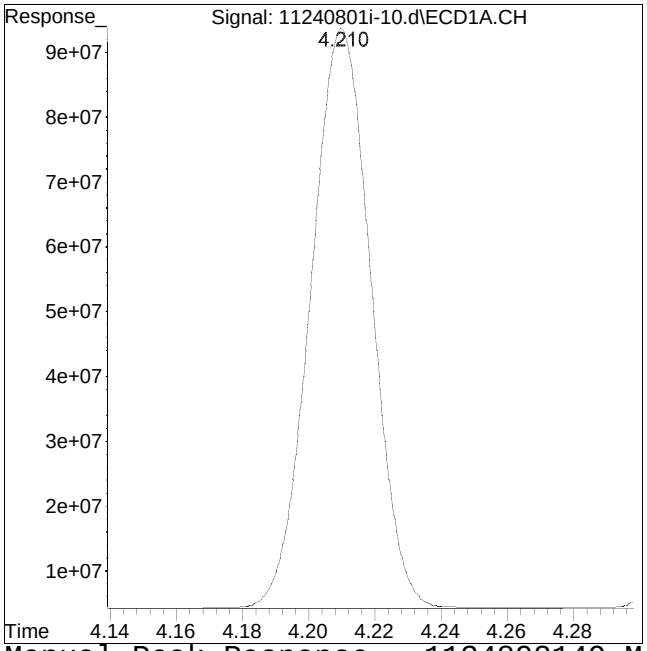
Original Peak Response = 993666448 Manual Peak Response = 992505645 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #18: Endrin



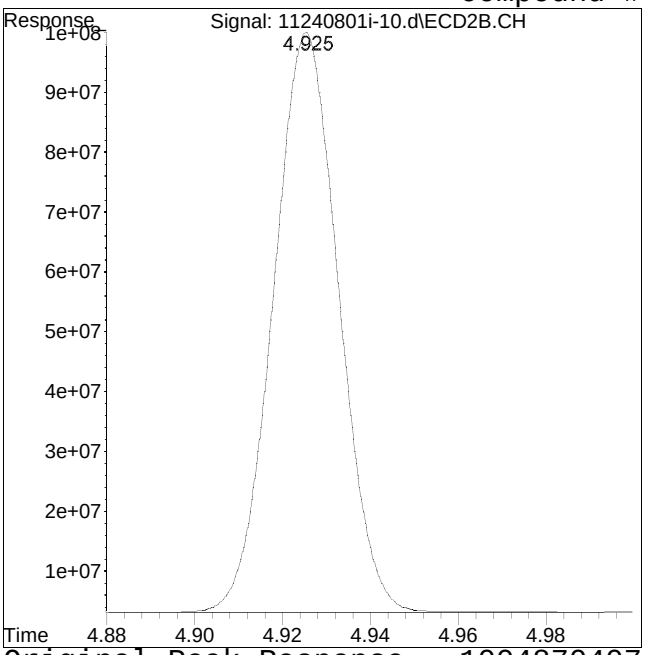


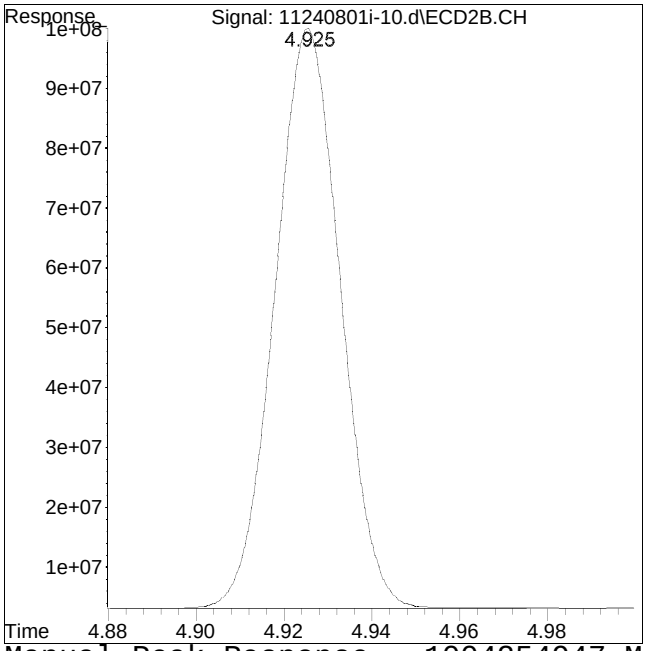
Original Peak Response = 1135365842 Manual Peak Response = 1134892149 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q Method : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1 Quant Date : 8/2/2024 9:10 am

Compound #56: Endrin #2





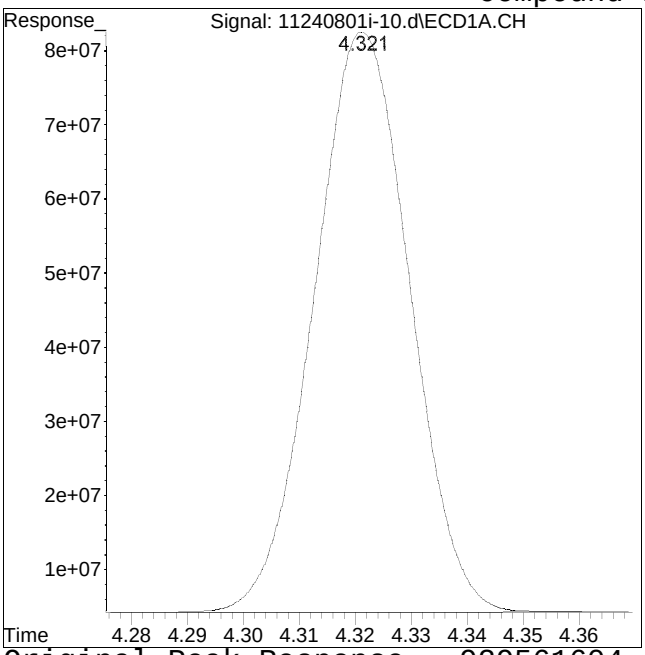
Original Peak Response = 1004870407 Manual Peak Response = 1004254947 M4
M4 = Poor automated baseline construction.

Manual Integration Report

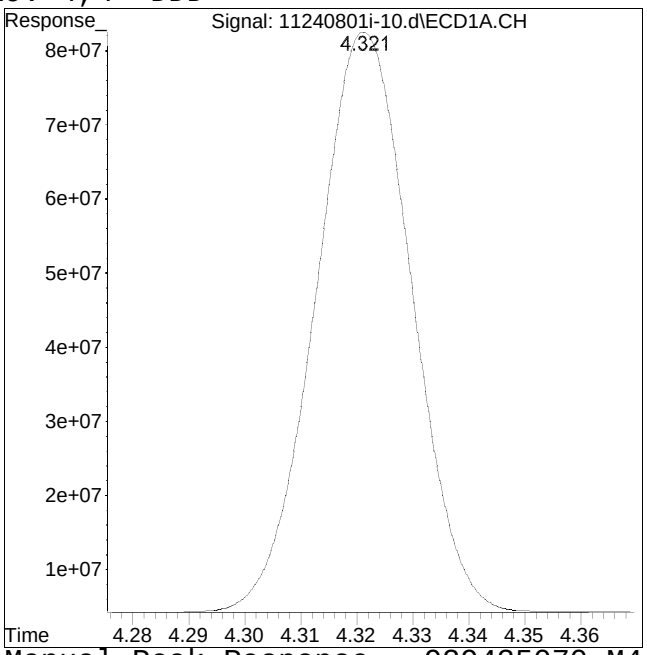
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #19: 4,4'-DDD



Original Peak Response = 929561604



Manual Peak Response = 929435070 M4

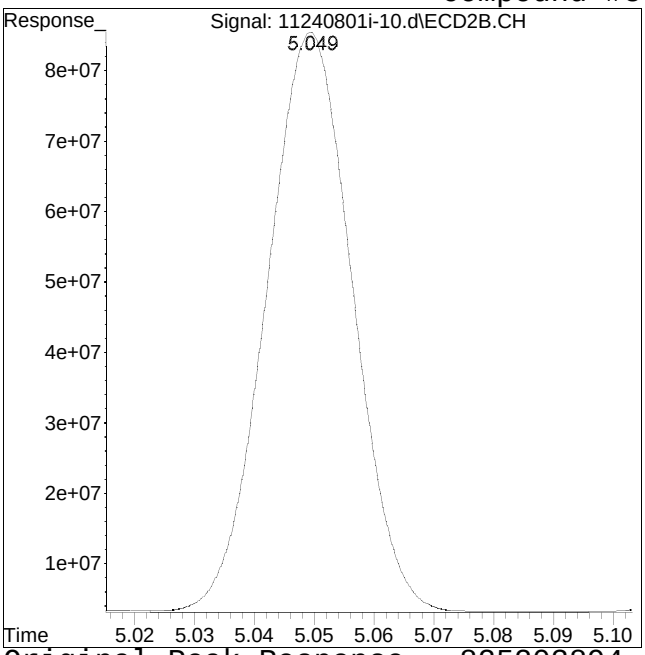
M4 = Poor automated baseline construction.

Manual Integration Report

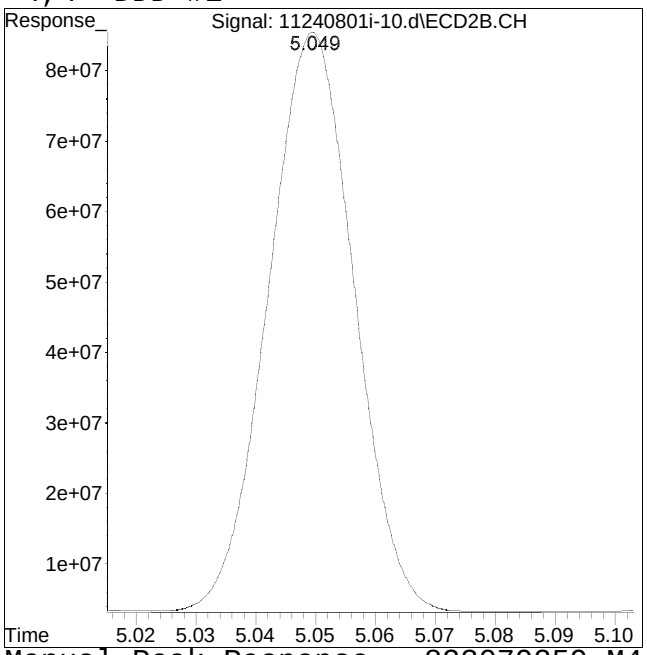
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 825203894



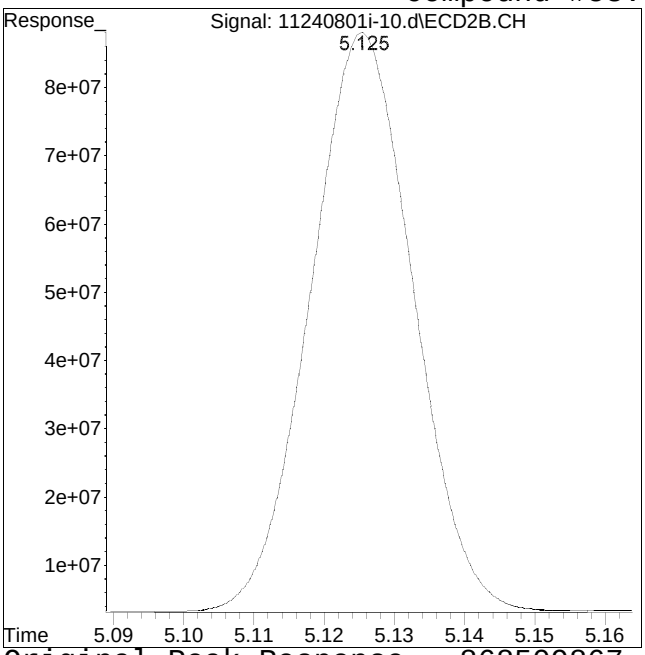
Manual Peak Response = 823079259 M4

M4 = Poor automated baseline construction.

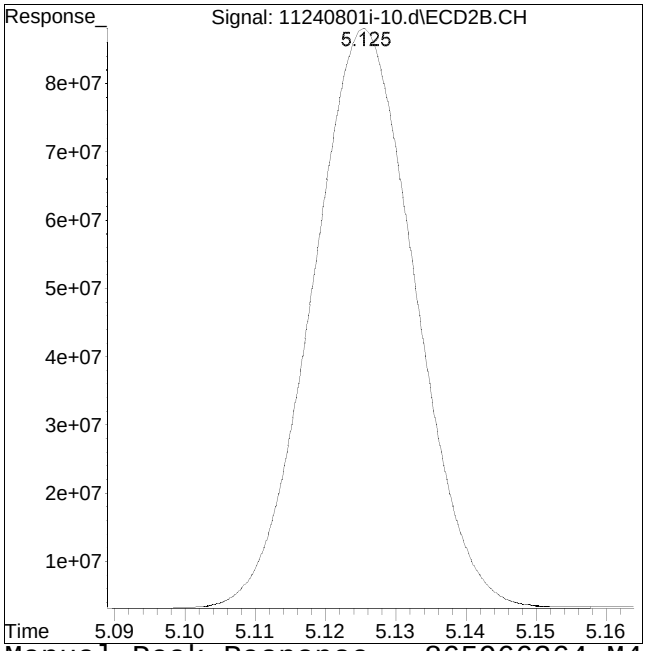
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #58: Endosulfan II #2



Original Peak Response = 868509867



Manual Peak Response = 865966264 M4

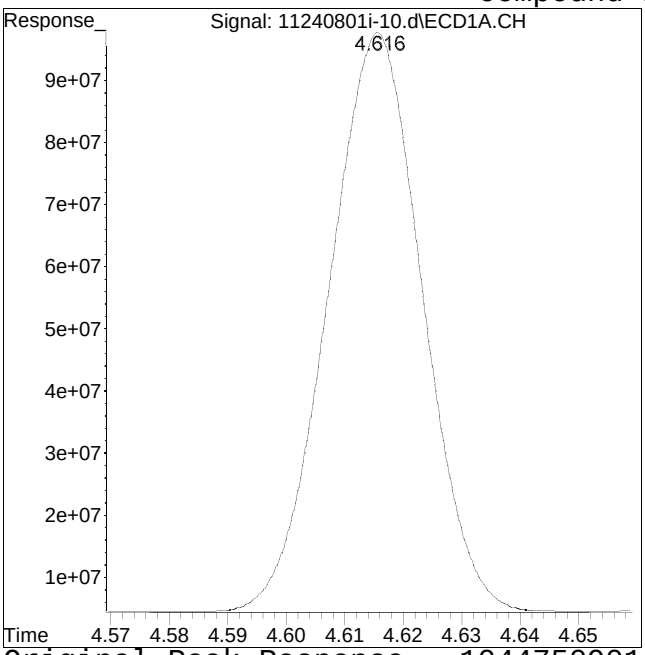
M4 = Poor automated baseline construction.

Manual Integration Report

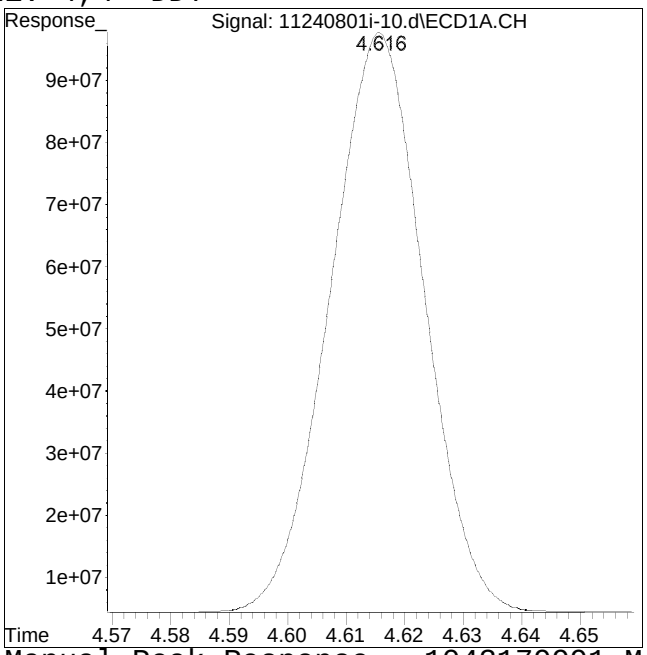
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #21: 4,4'-DDT



Original Peak Response = 1044750901



Manual Peak Response = 1043179991 M4

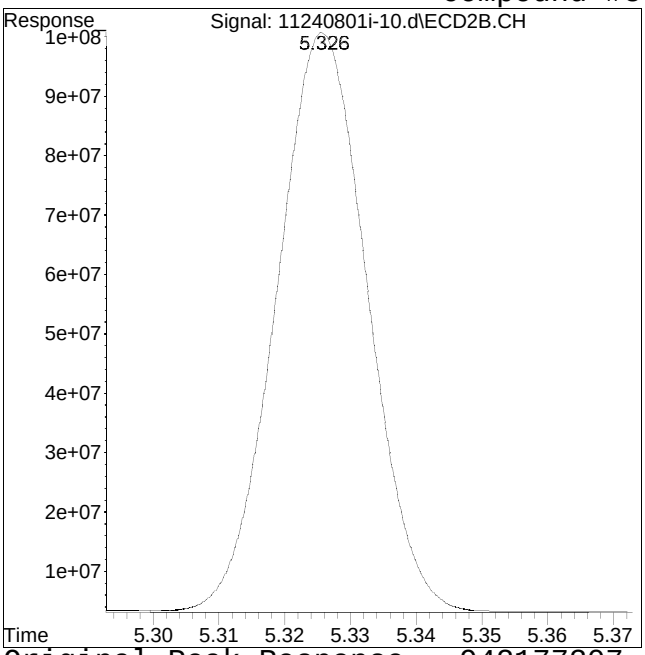
M4 = Poor automated baseline construction.

Manual Integration Report

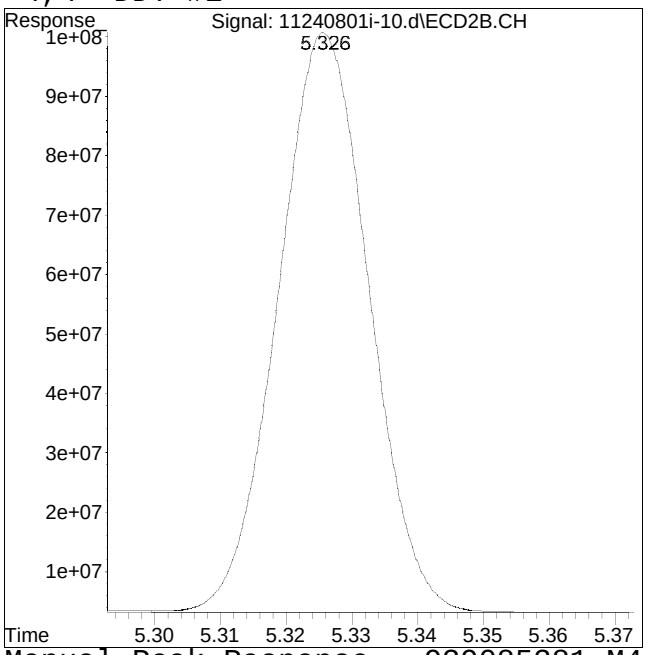
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 942177307



Manual Peak Response = 939085381 M4

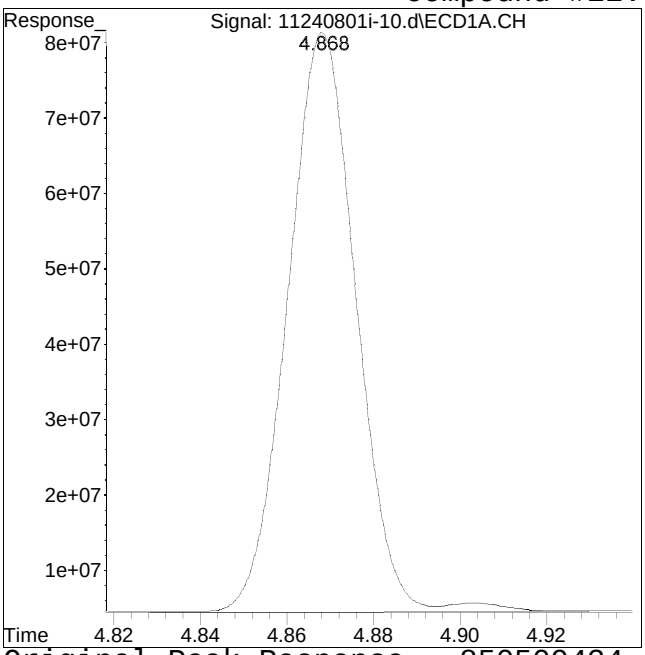
M4 = Poor automated baseline construction.

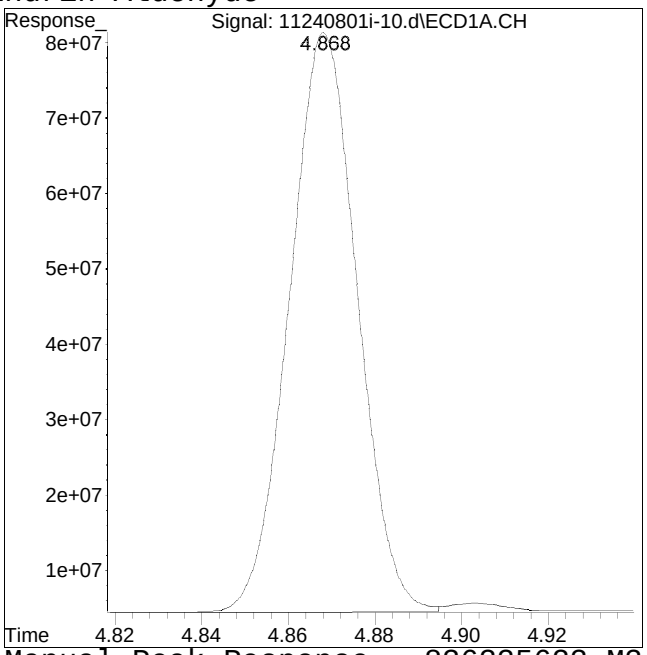
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #22: Endrin Aldehyde





Original Peak Response = 850509434 Manual Peak Response = 836335623 M3

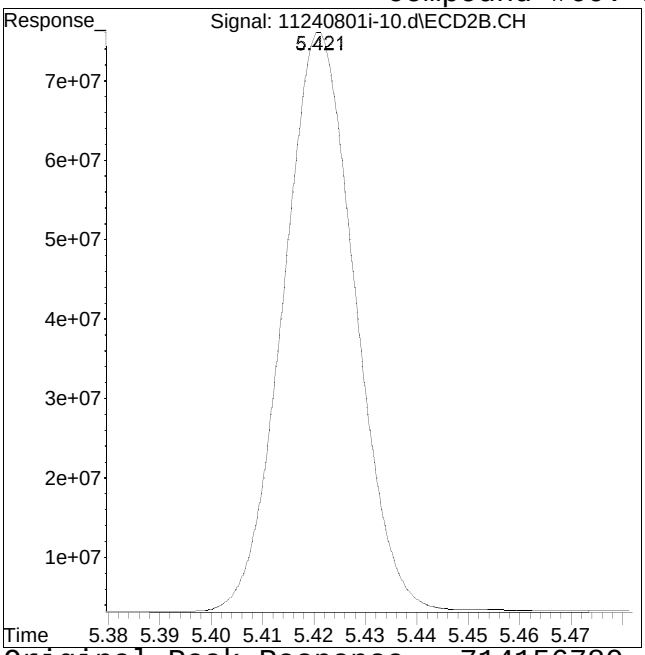
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

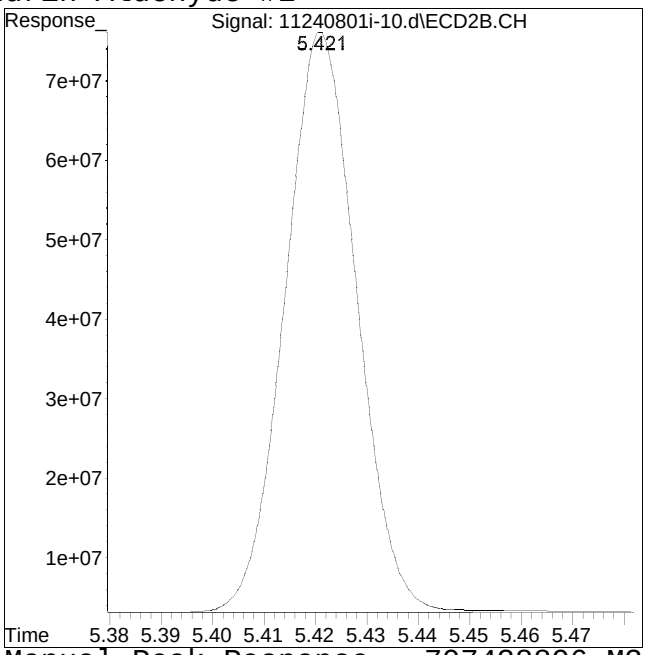
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 714156780 Manual Peak Response = 707438896 M3

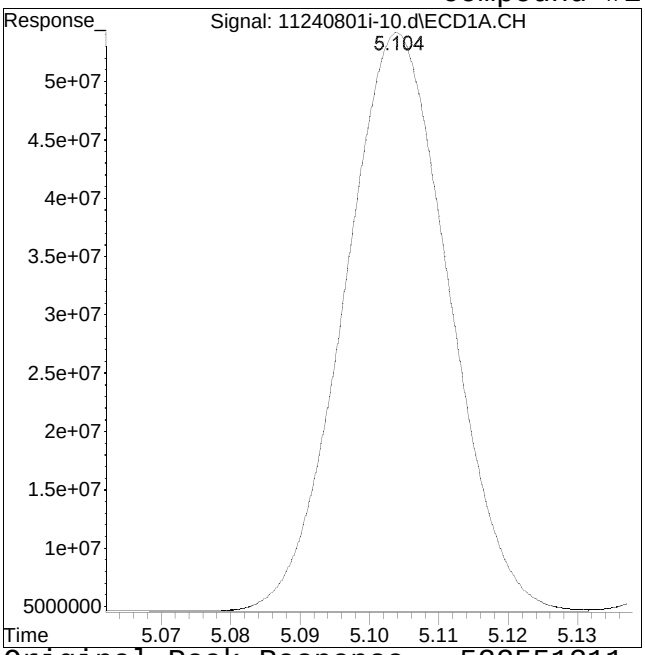
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

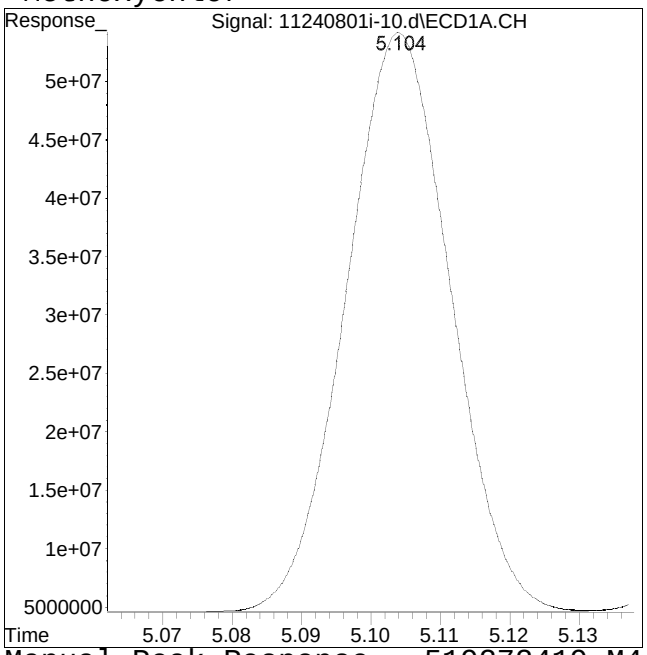
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #23: Methoxychlor





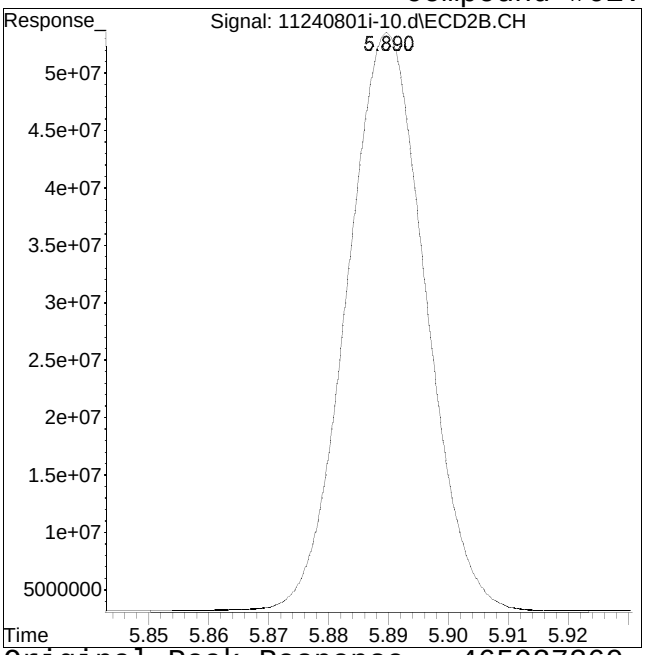
Original Peak Response = 522551311 Manual Peak Response = 519272419 M4
M4 = Poor automated baseline construction.

Manual Integration Report

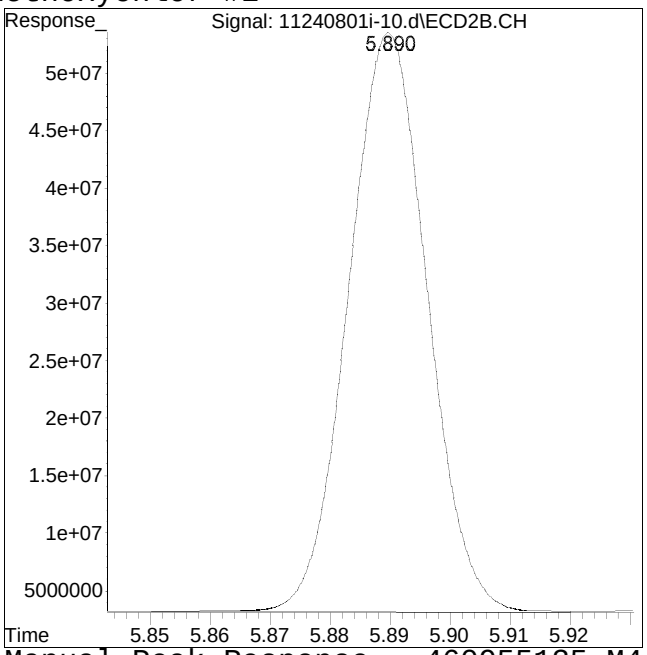
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #61: Methoxychlor #2



Original Peak Response = 465927360



Manual Peak Response = 460955135 M4

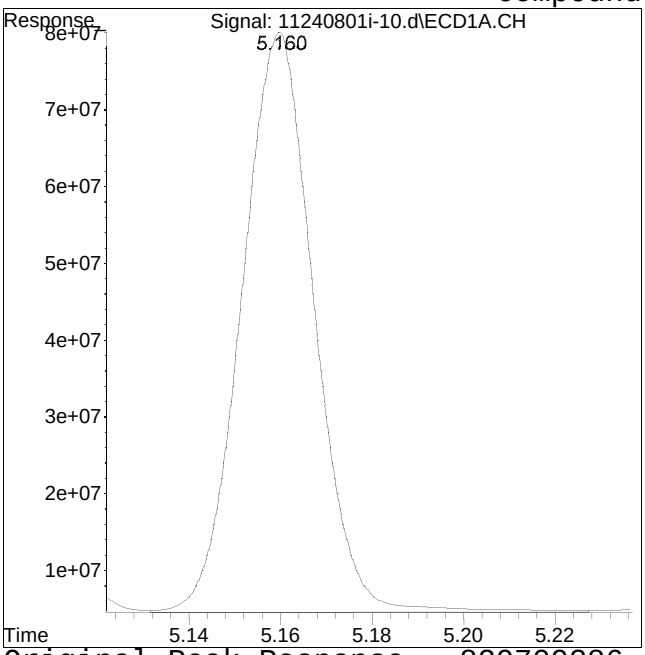
M4 = Poor automated baseline construction.

Manual Integration Report

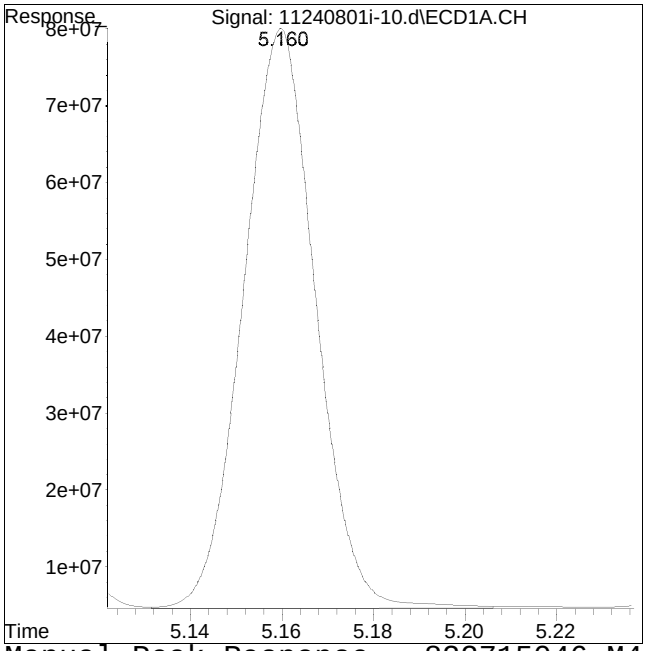
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #24: Mirex



Original Peak Response = 829709386



Manual Peak Response = 822715046 M4

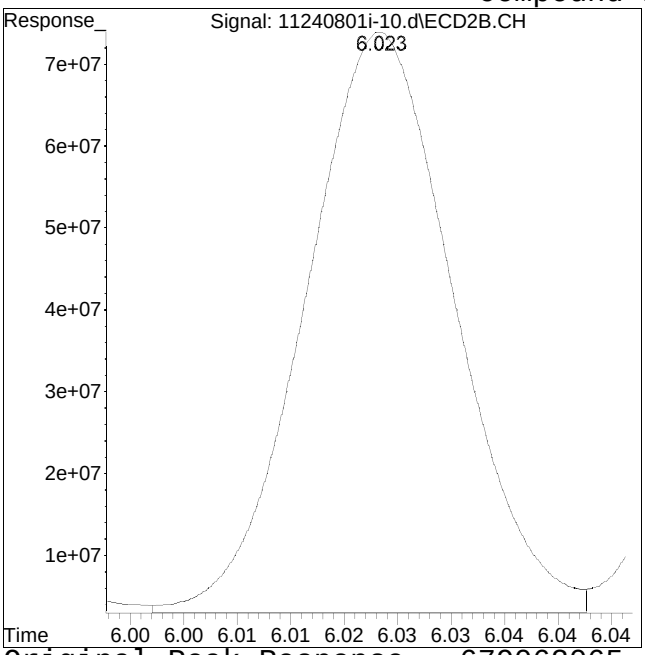
M4 = Poor automated baseline construction.

Manual Integration Report

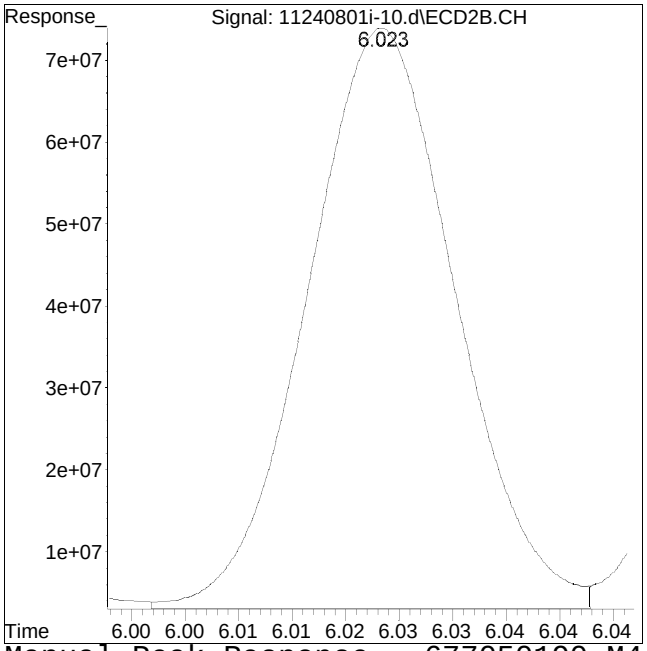
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #62: Mirex #2



Original Peak Response = 679062065



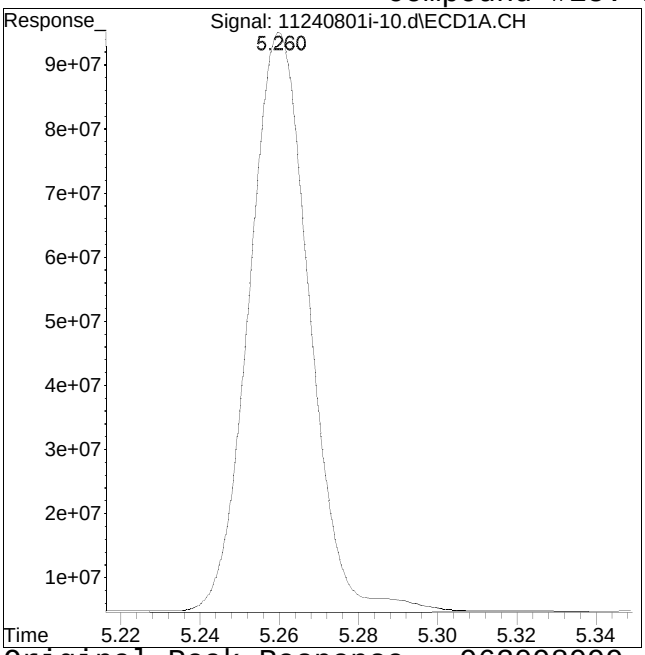
Manual Peak Response = 677050190 M4

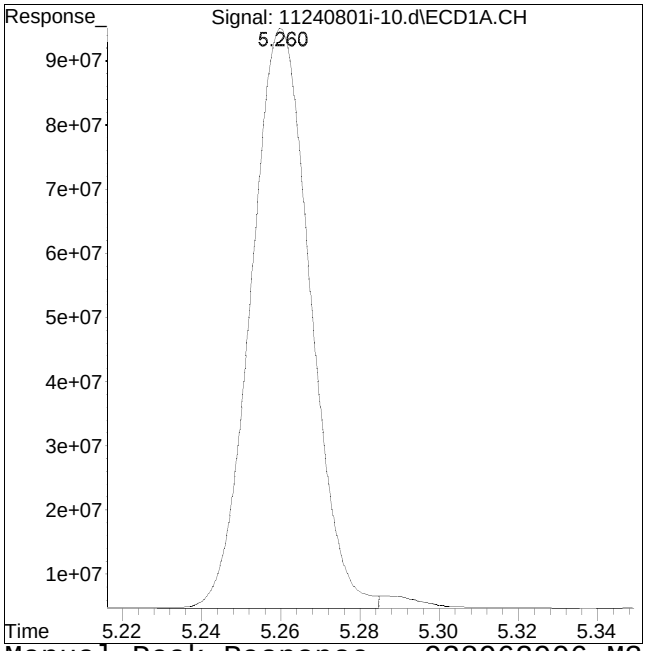
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-10.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:01 Instrument : Pest 11
Sample : il9pest,42e,,pp 11680 L0.1Quant Date : 8/2/2024 9:10 am

Compound #25: Endosulfan Sulfate



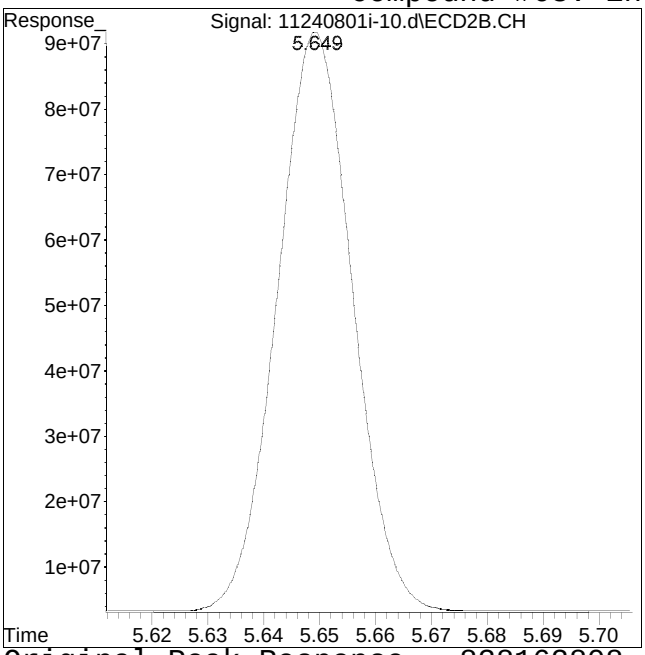


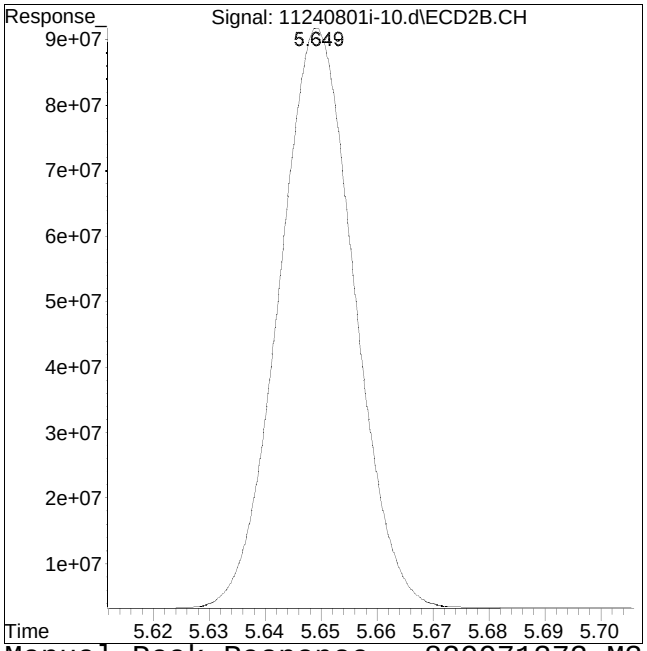
Original Peak Response = 963098999 Manual Peak Response = 938962906 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #63: Endosulfan Sulfate #2





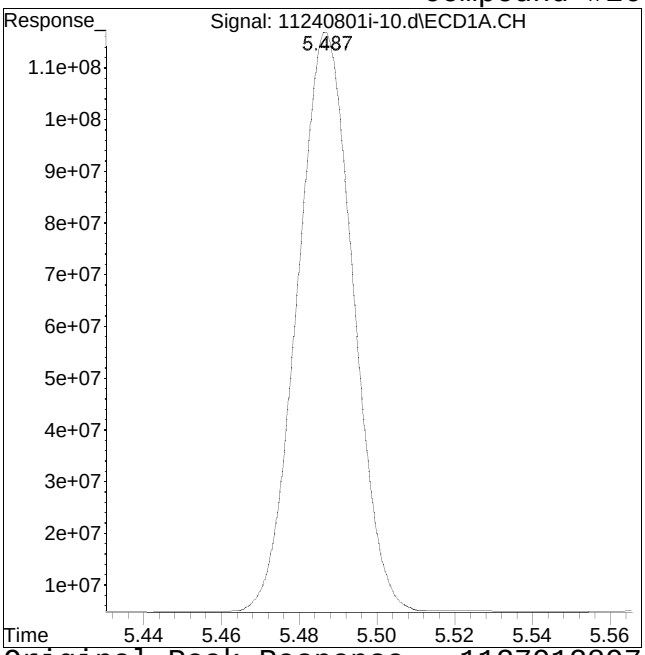
Original Peak Response = 838162808 Manual Peak Response = 829971373 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

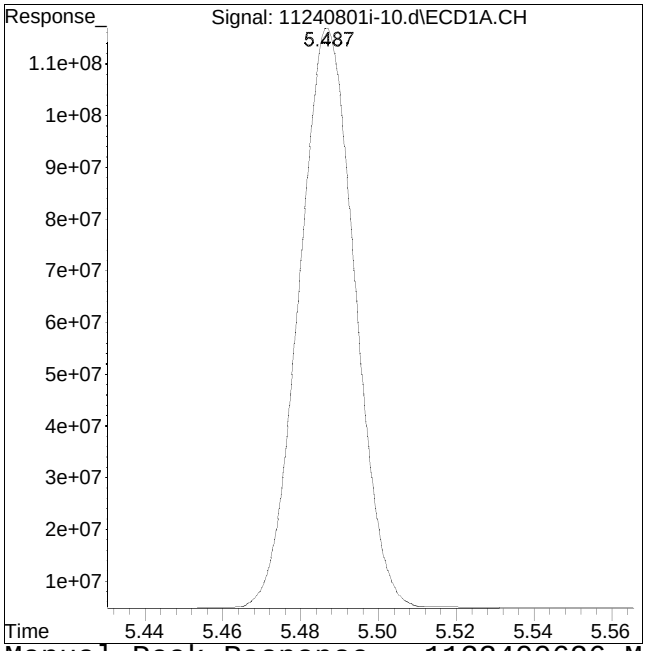
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #26: Endrin Ketone





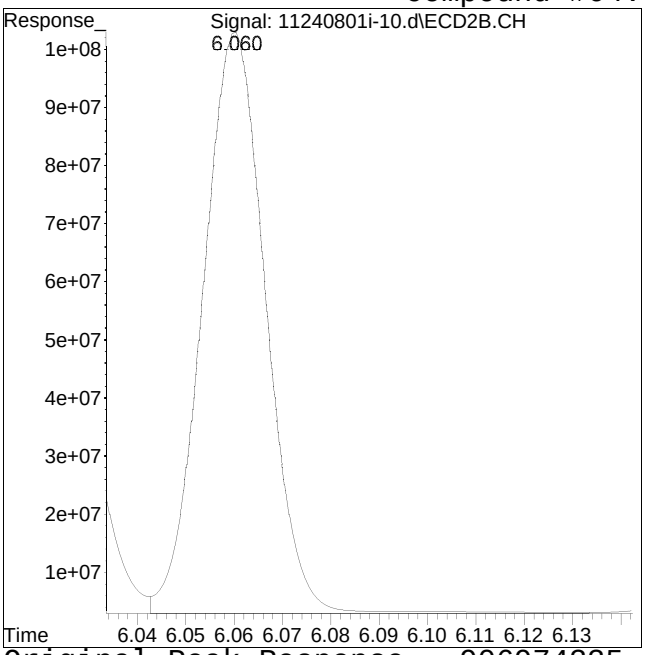
Original Peak Response = 1127912897 Manual Peak Response = 1123400626 M4
M4 = Poor automated baseline construction.

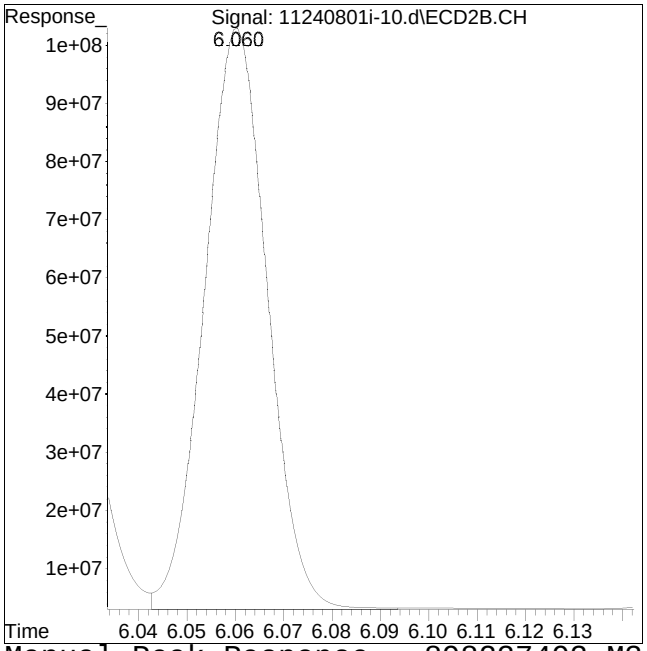
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #64: Endrin Ketone #2





Original Peak Response = 906974335 Manual Peak Response = 898237493 M3

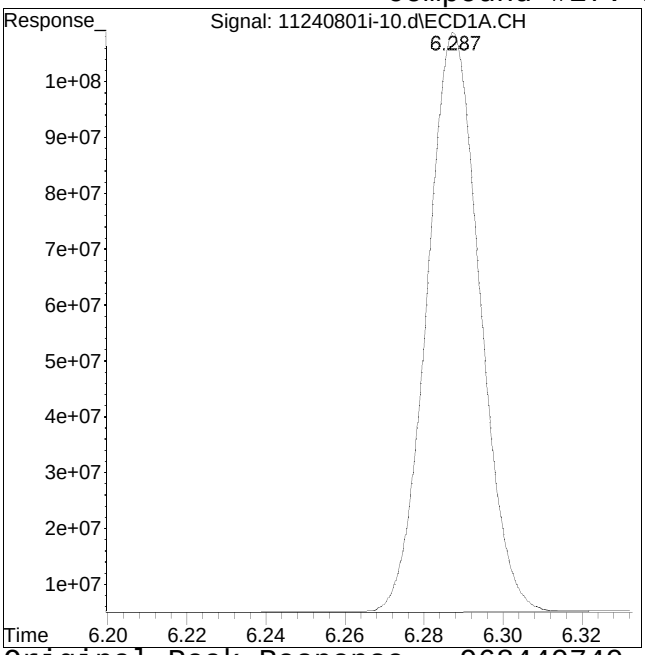
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

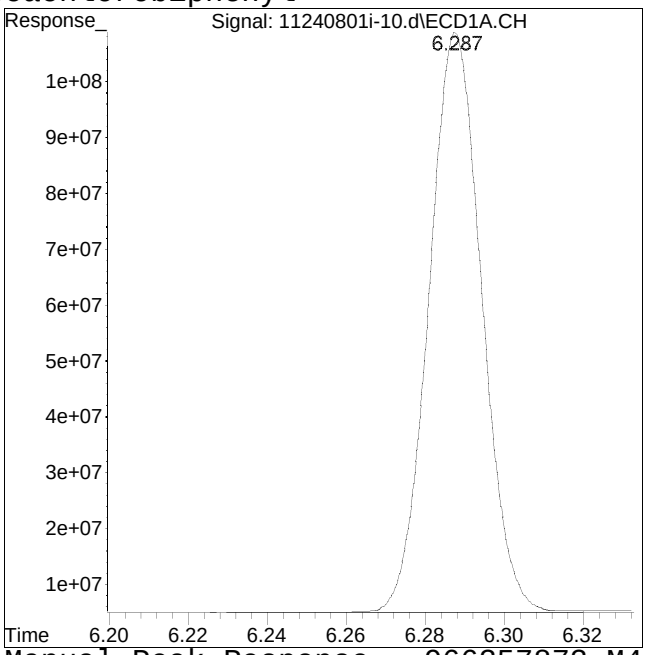
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 968440740



Manual Peak Response = 966357873 M4

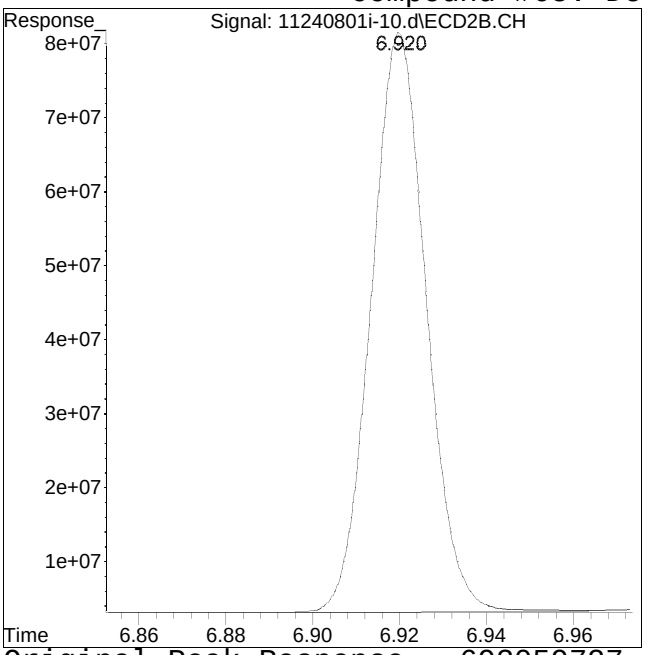
M4 = Poor automated baseline construction.

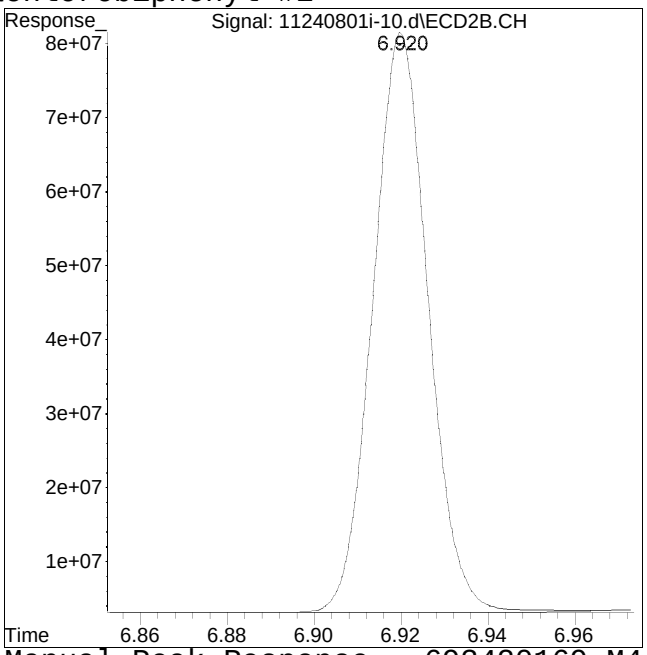
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-10.d
Date Inj'd : 8/1/2024 20:01
Sample : il9pest,42e,,pp 11680 L0.1

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:10 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 693059727 Manual Peak Response = 693420169 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	234.6E6	183.1E6	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	1913.3E6	1598.0E6	193.264M3	202.706M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		386.53%#	405.41%#
27) s	Decachlorobi	6.288	6.920	1913.5E6	1380.9E6	195.015M4	201.842M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		390.03%#	403.68%#
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	2442.7E6	1675.4E6	191.797M3	199.678
4) t	alpha-BHC	1.964	2.271	3010.2E6	2583.6E6	198.283M4	206.150M3
5) t	gamma-BHC (l	2.166	2.557	2765.0E6	2320.8E6	197.699M3	205.175M4
6) t	beta-BHC	2.221	2.622	1120.5E6	933.3E6	194.276M4	198.901M4
7) t	delta-BHC	2.350	2.889	2819.2E6	2384.1E6	199.250M4	206.915M4
8) t	Heptachlor	2.513	2.952	2482.5E6	2268.1E6	191.877M4	198.593M4
9) t	Aldrin	2.757	3.271	2440.7E6	2165.8E6	197.425M4	203.689
10) t	Alachlor	2.877	3.153	373.3E6	252.0E6	178.169M4	180.792M3
11) t	Chlorpyrifos	2.969	3.506	874.1E6	975.3E6	175.986M4	185.391M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.301	3.884	2205.7E6	1981.0E6	192.763M3	199.269M4
13)	t	gamma-Chlord	3.425	4.105	2083.4E6	1868.5E6	200.885M4	206.064M4
14)	t	alpha-Chlord	3.559	4.274	2331.6E6	2051.6E6	198.900M3	204.428M4
15)	t	4,4'-DDE	3.657	4.473	2393.8E6	2077.4E6	202.115M4	207.169M3
16)	t	Endosulfan I	3.696	4.336	2104.4E6	1850.2E6	194.817M4	199.685M4
17)	t	Dieldrin	3.955	4.628	2245.1E6	1969.5E6	198.785M4	203.766M4
18)	t	Endrin	4.210	4.926	2229.3E6	1985.9E6	195.383M3	202.639M4
19)	t	4,4'-DDD	4.322	5.050	1880.5E6	1661.0E6	203.384M4	208.277M4
20)	t	Endosulfan I	4.452	5.126	1974.6E6	1684.2E6	192.875M4	198.396M4
21)	t	4,4'-DDT	4.616	5.326	2109.7E6	1890.1E6	202.314M4	207.312M3
22)	t	Endrin Aldeh	4.869	5.421	1666.3E6	1402.7E6	198.364M4	202.391M3
23)	t	Methoxychlor	5.104	5.890	988.3E6	899.3E6	185.976M4	196.434M3
24)	t	Mirex	5.160	6.023	1621.2E6	1338.7E6	194.224M4	199.638M4
25)	t	Endosulfan S	5.260	5.649	1840.3E6	1637.4E6	194.770M3	201.144M4
26)	t	Endrin Keton	5.487	6.060	2176.6E6	1757.5E6	191.458M4	198.938M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

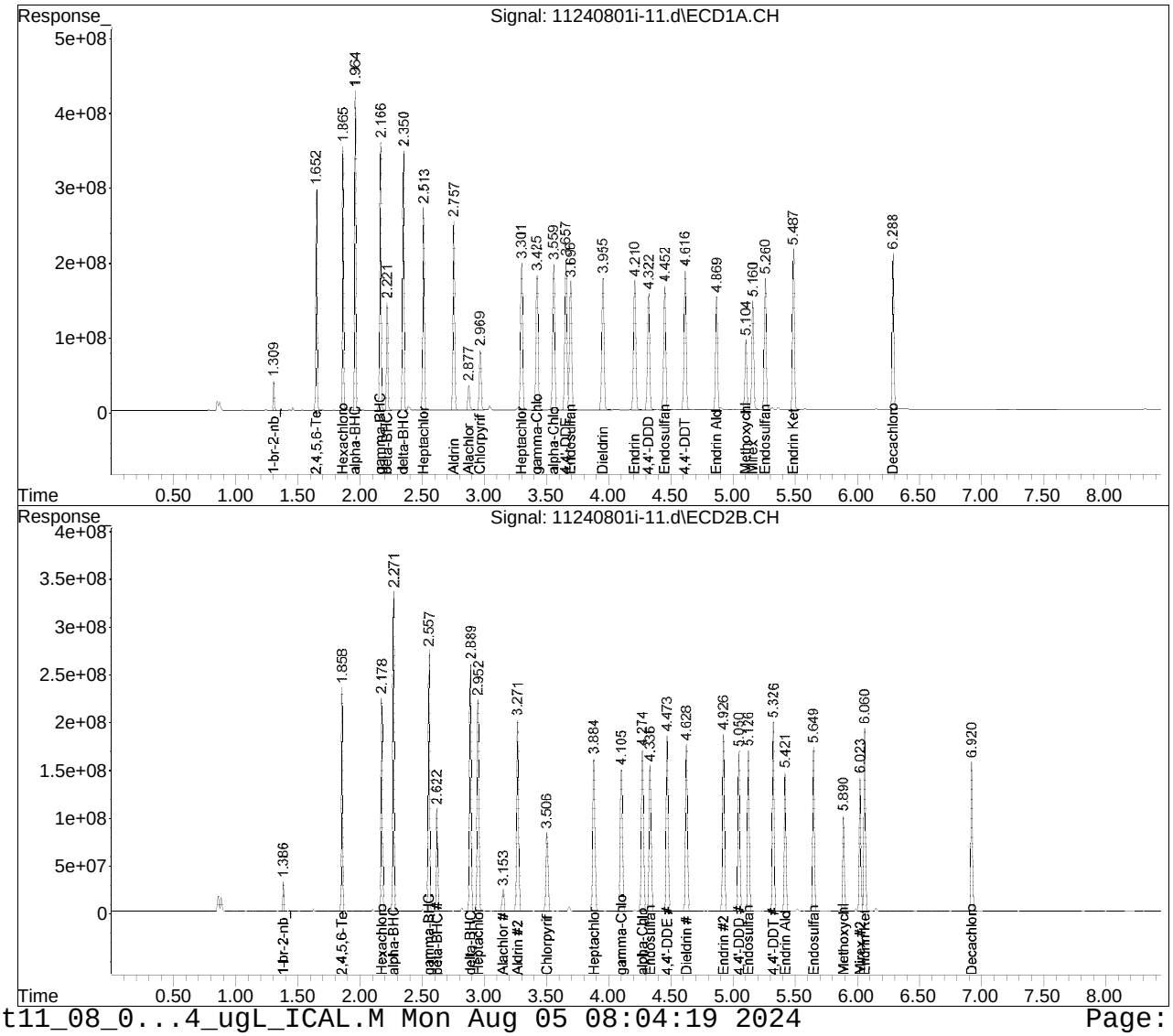
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:12
Operator : PEST11:ejl
Sample : il10pest,42e,,pp 11679 L0.2
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:29:32 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

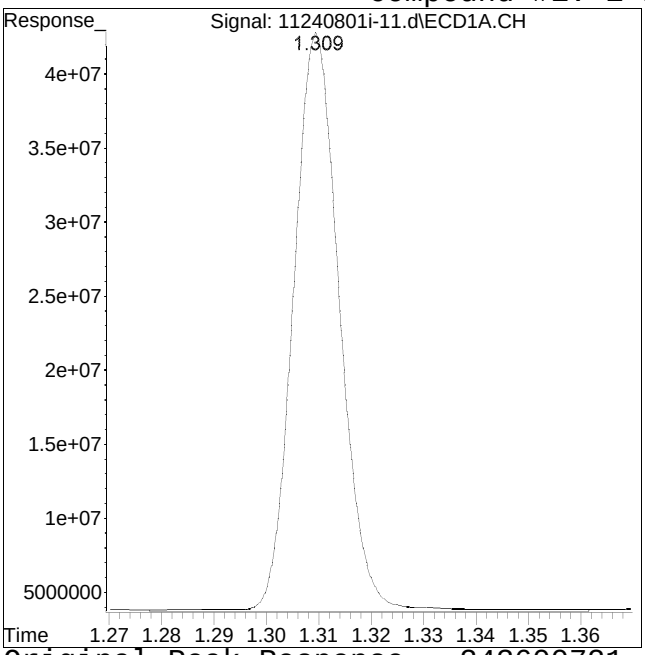
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

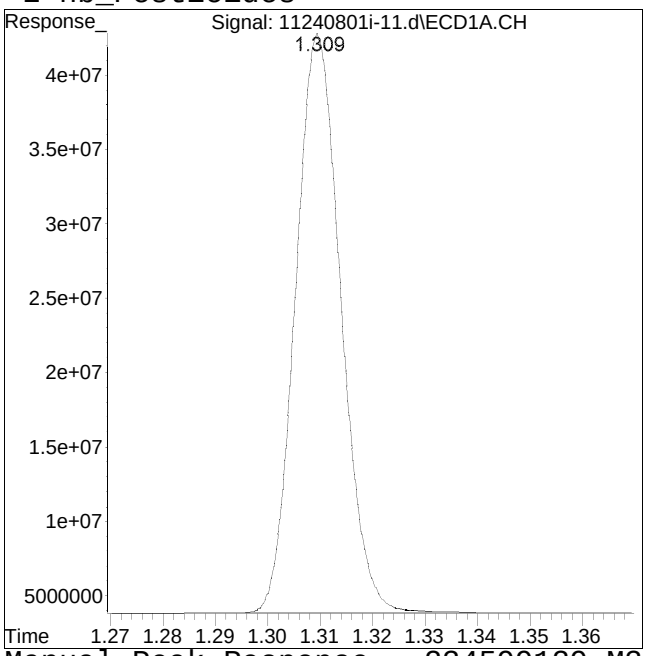


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #1: 1-br-2-nb_Pesticides





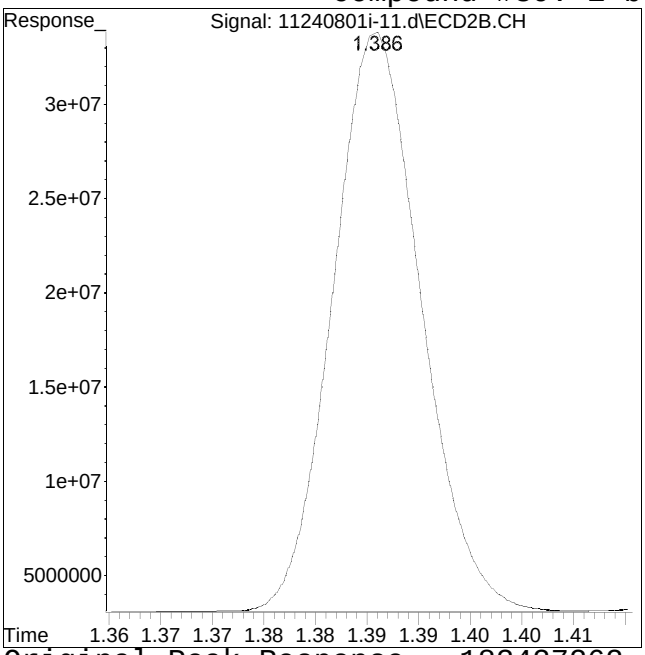
Original Peak Response = 243600721 Manual Peak Response = 234599129 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

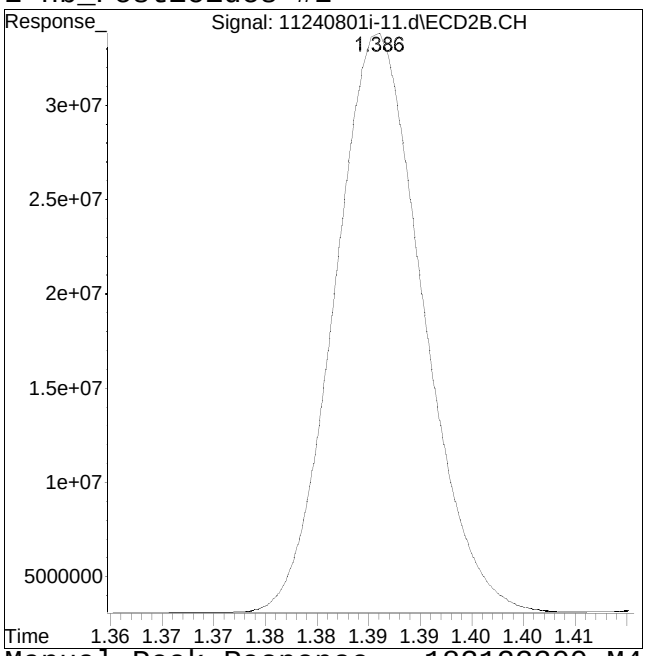
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 183427262



Manual Peak Response = 183123300 M4

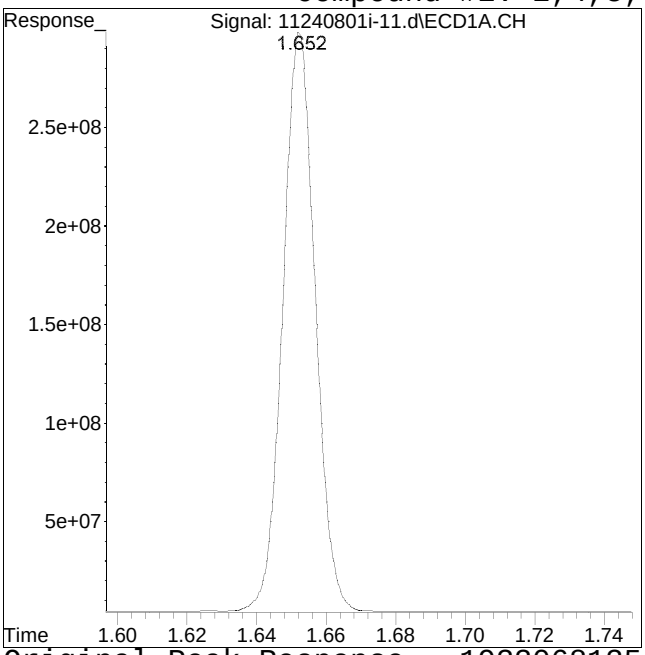
M4 = Poor automated baseline construction.

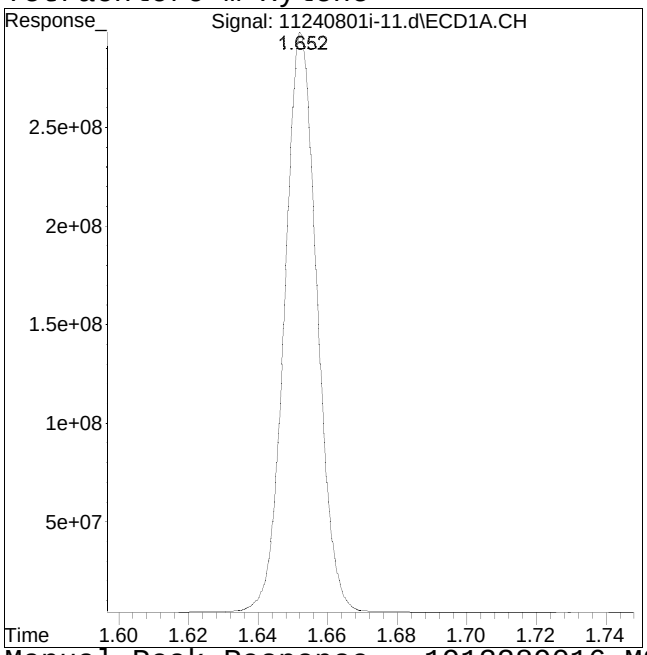
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





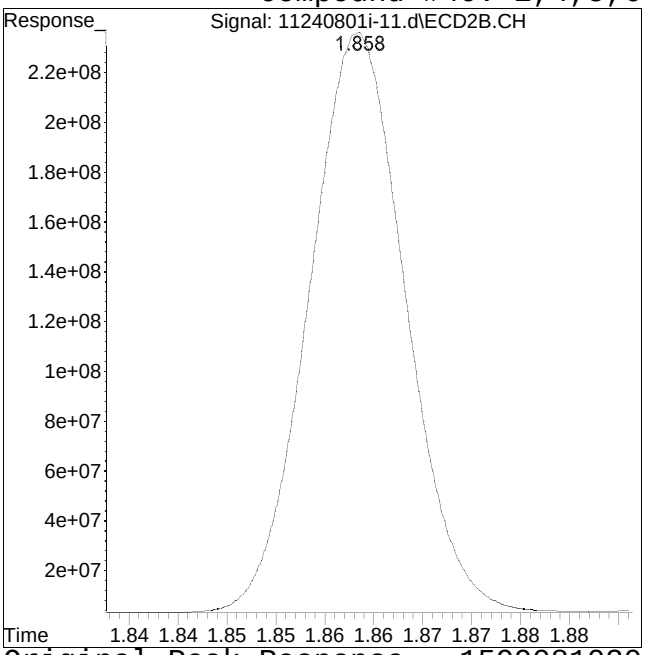
Original Peak Response = 1933068135 Manual Peak Response = 1913289016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

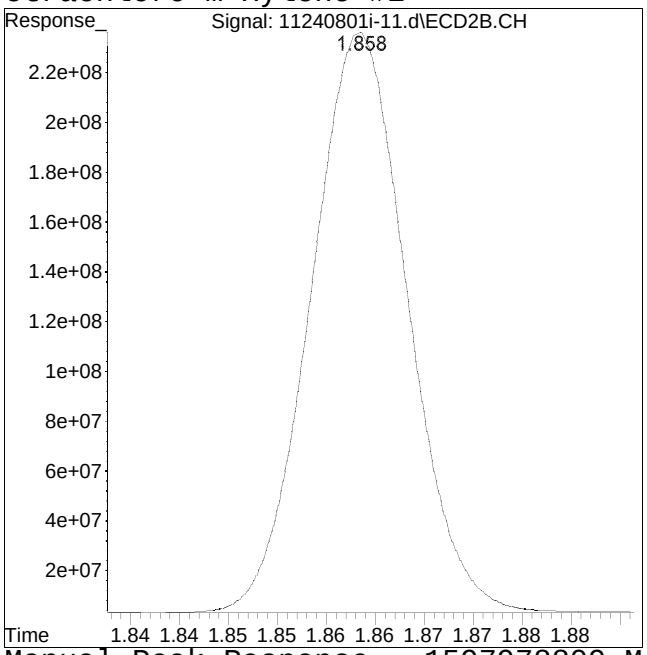
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



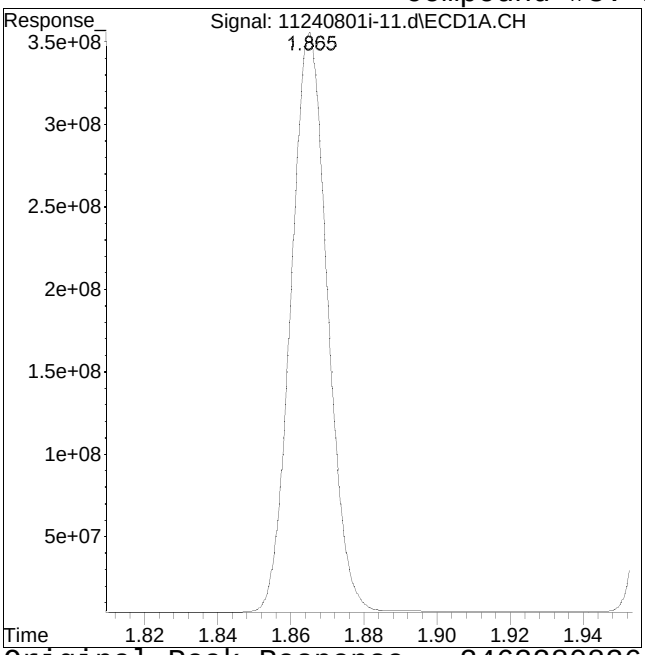


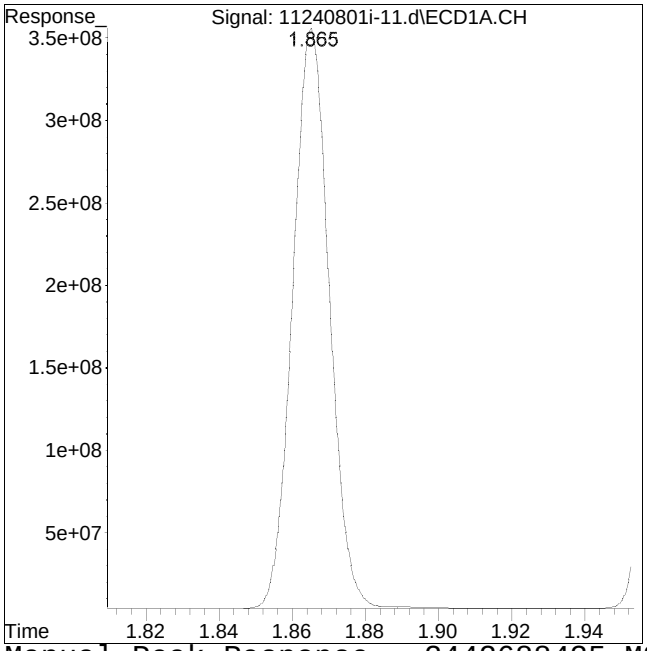
Original Peak Response = 1599081030 Manual Peak Response = 1597978809 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #3: Hexachlorobenzene





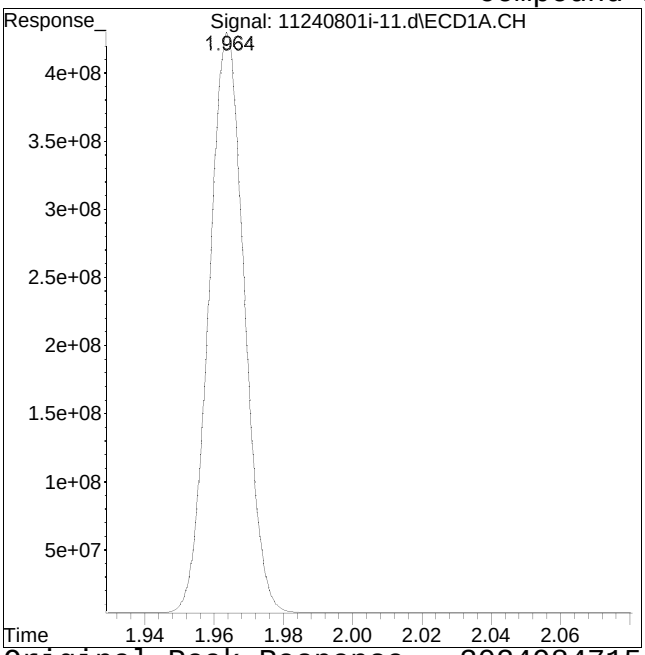
Original Peak Response = 2463280836 Manual Peak Response = 2442688435 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

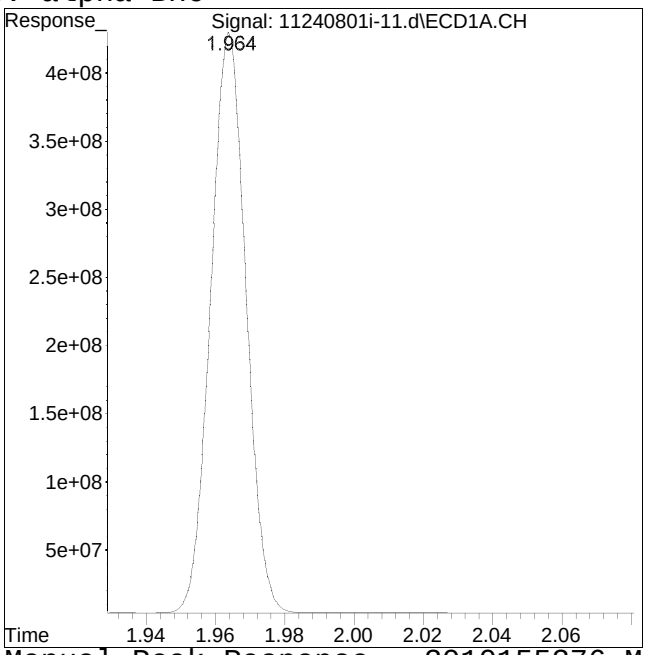
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #4: alpha-BHC



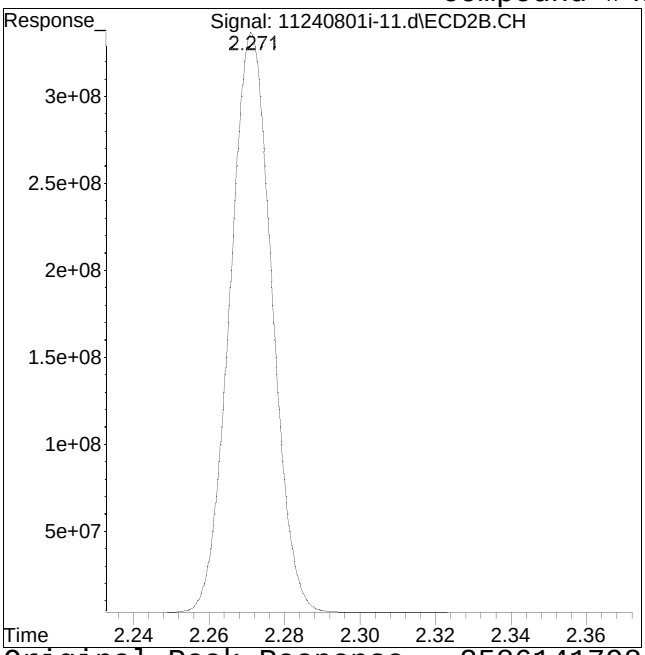


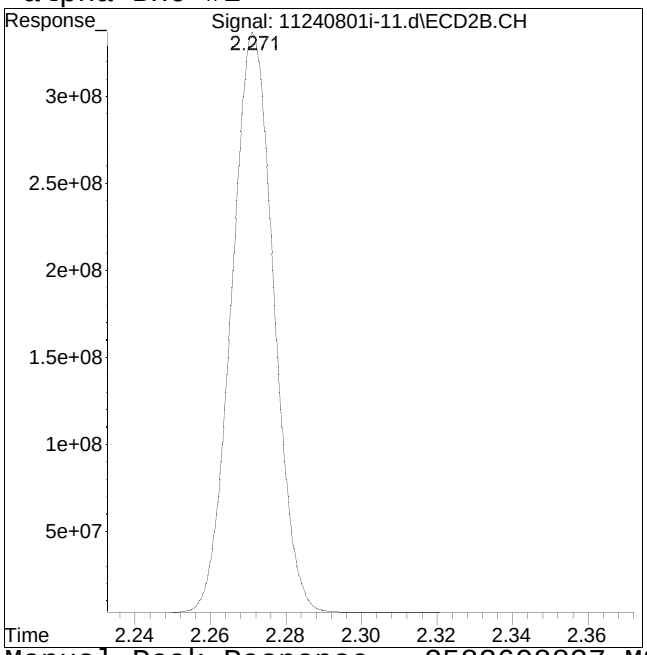
Original Peak Response = 3024984715 Manual Peak Response = 3010155376 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #42: alpha-BHC #2



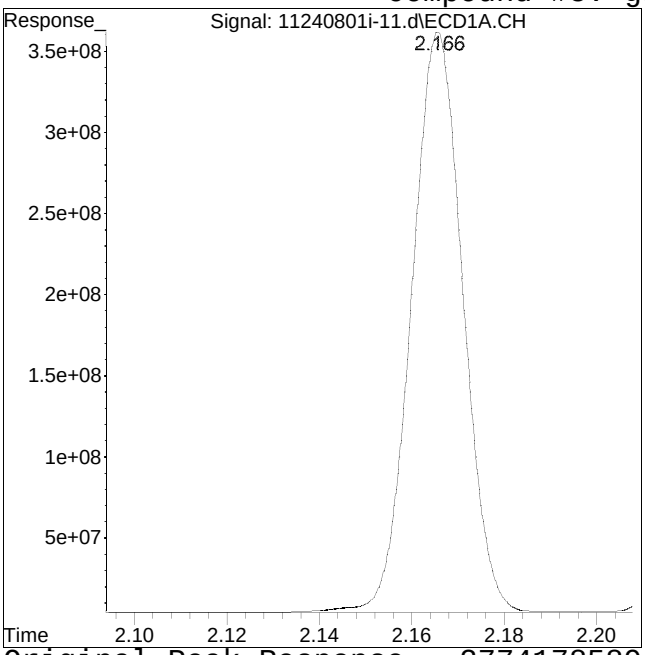


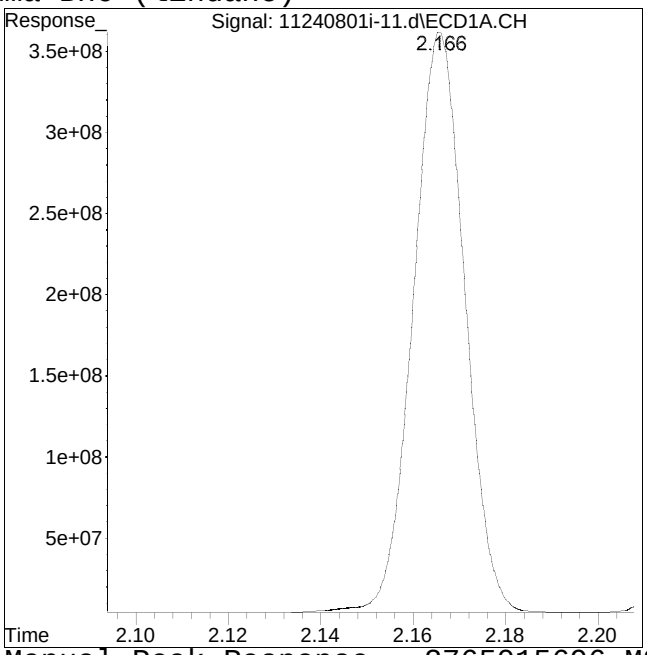
Original Peak Response = 2586141798 Manual Peak Response = 2583608837 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #5: gamma-BHC (lindane)



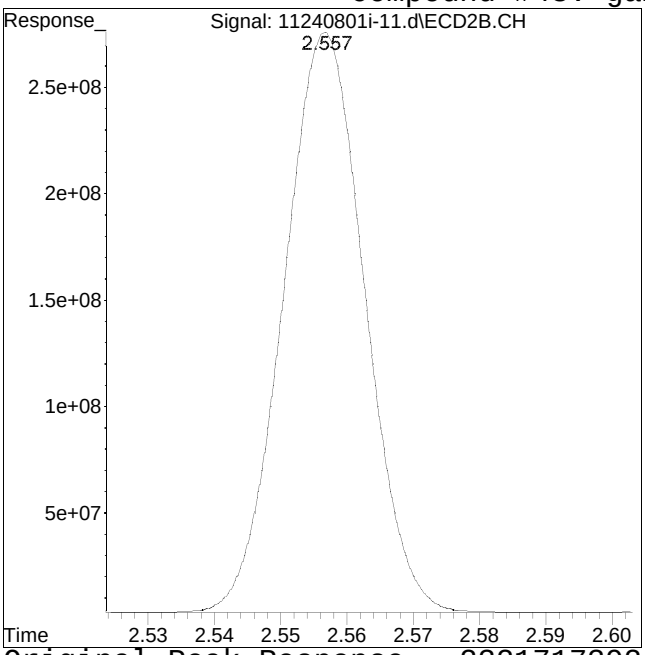


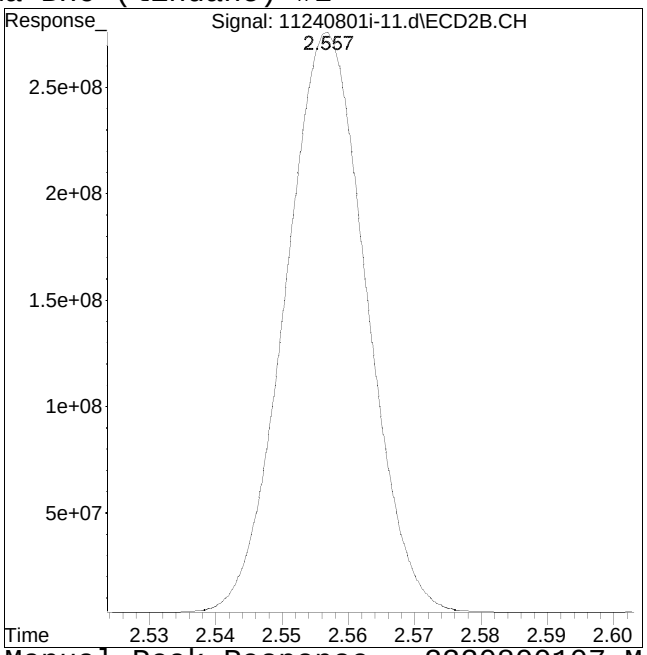
Original Peak Response = 2774178589 Manual Peak Response = 2765015696 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #43: gamma-BHC (lindane) #2



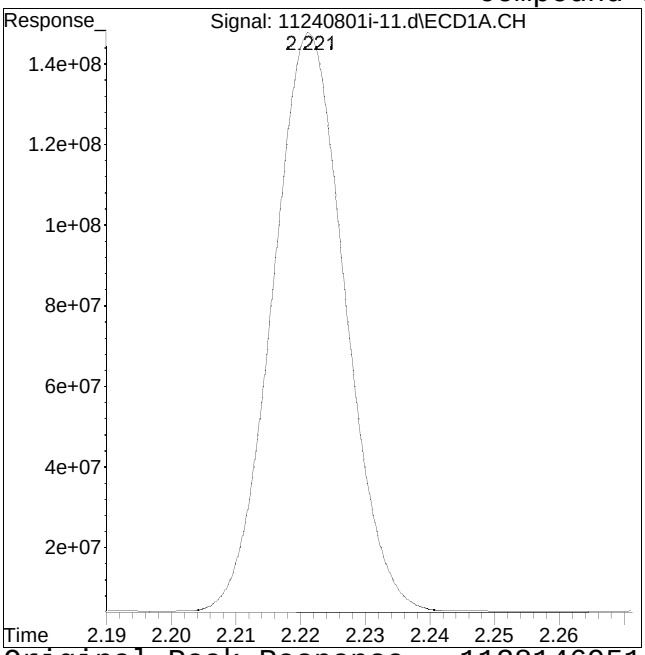


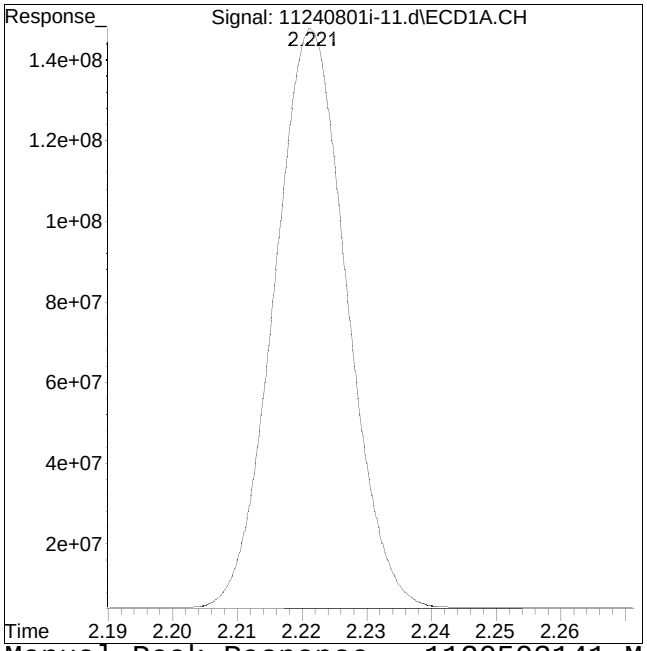
Original Peak Response = 2321717392 Manual Peak Response = 2320800107 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #6: beta-BHC





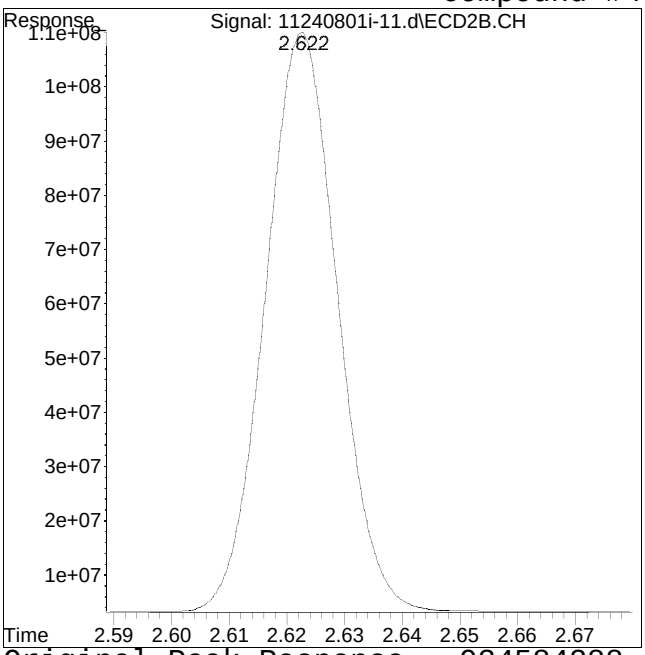
Original Peak Response = 1128146951 Manual Peak Response = 1120503141 M4
M4 = Poor automated baseline construction.

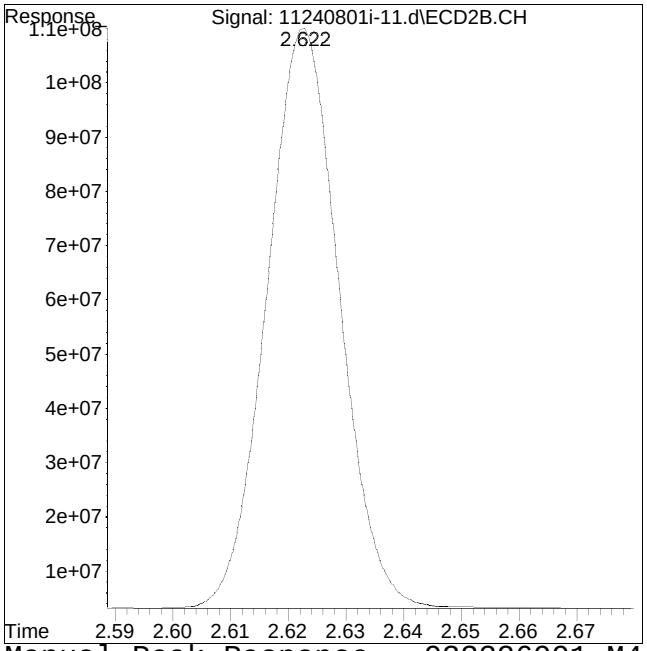
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #44: beta-BHC #2





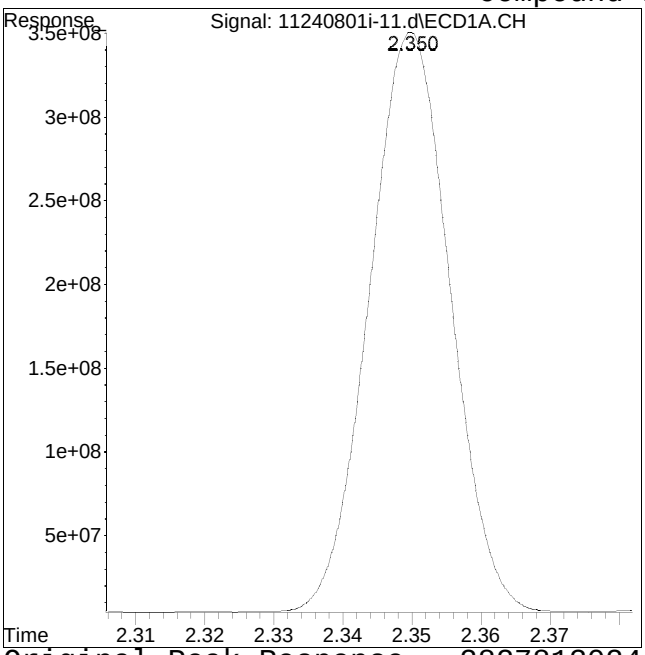
Original Peak Response = 934584288 Manual Peak Response = 933326991 M4
M4 = Poor automated baseline construction.

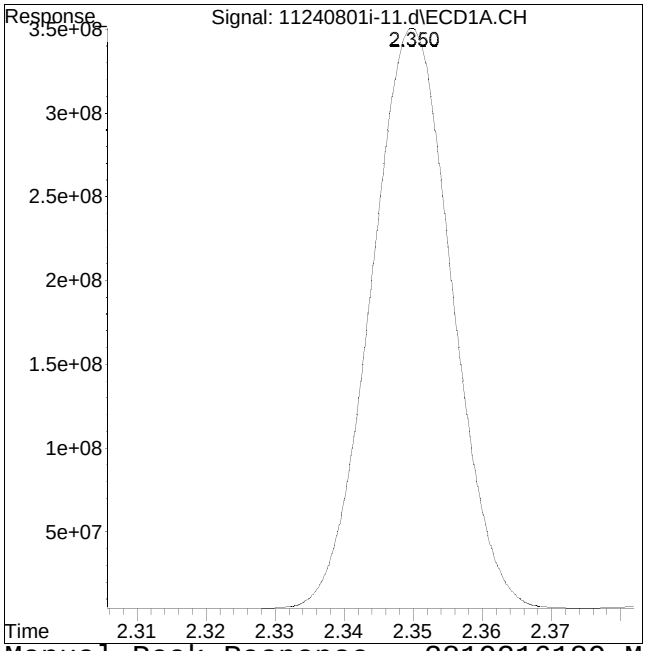
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #7: delta-BHC





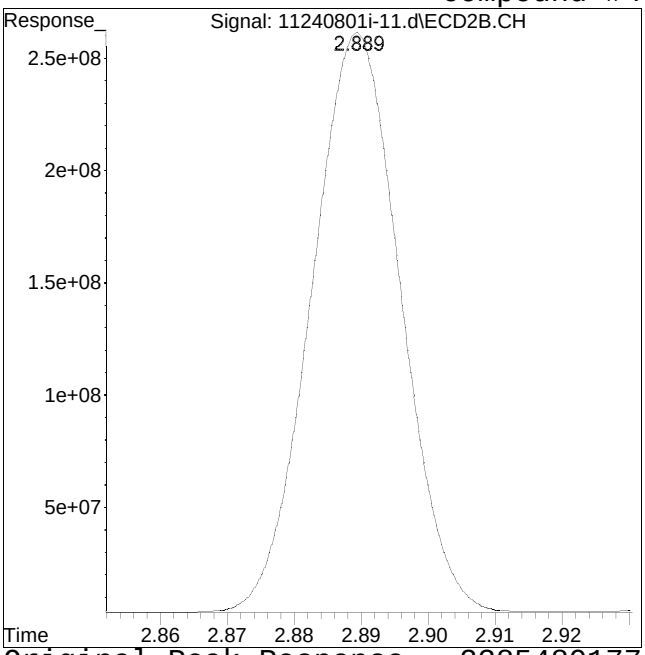
Original Peak Response = 2827813024 Manual Peak Response = 2819216189 M4
M4 = Poor automated baseline construction.

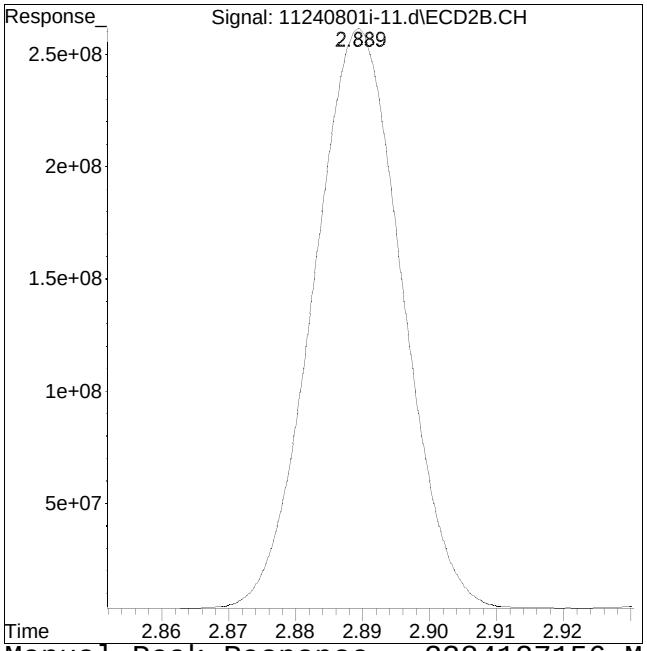
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #45: delta-BHC #2





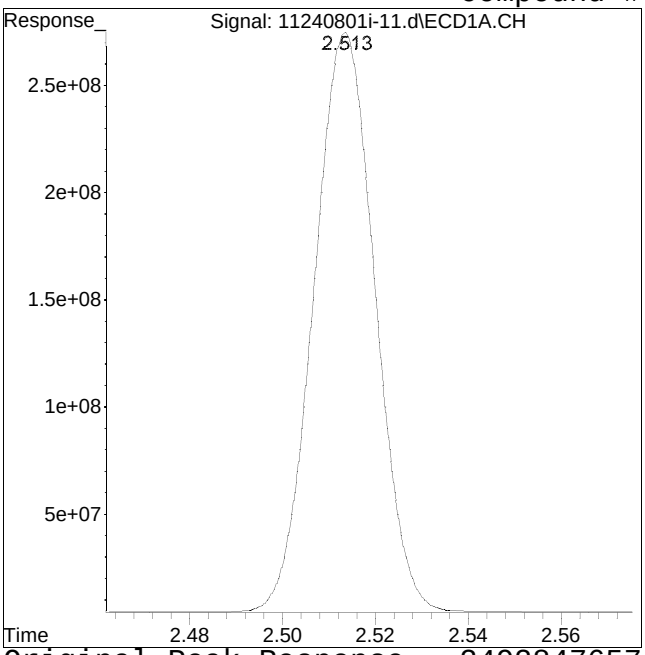
Original Peak Response = 2385489177 Manual Peak Response = 2384127156 M4
M4 = Poor automated baseline construction.

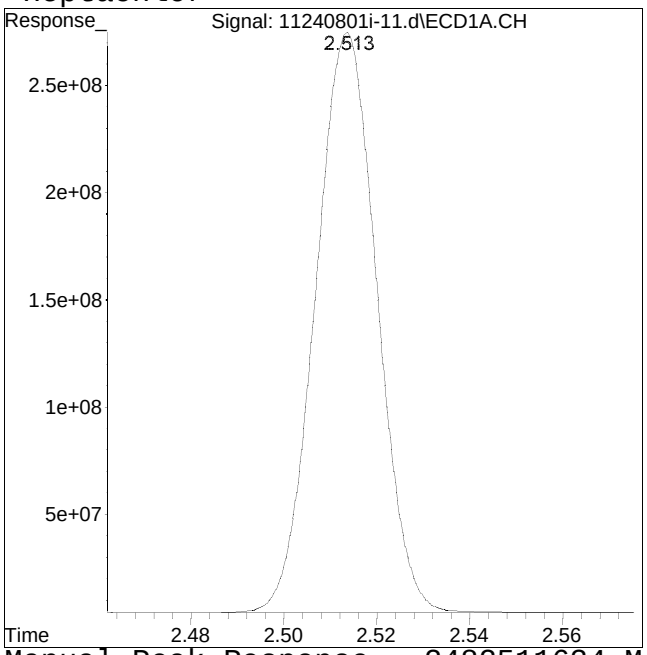
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #8: Heptachlor



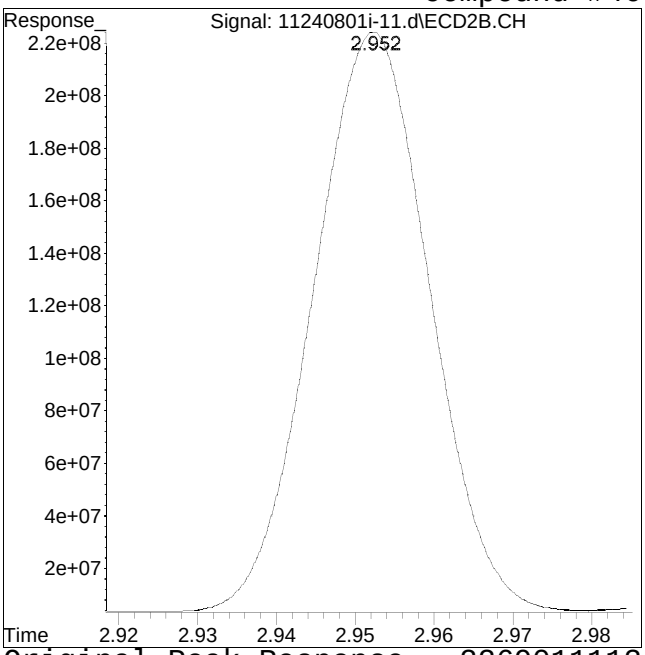


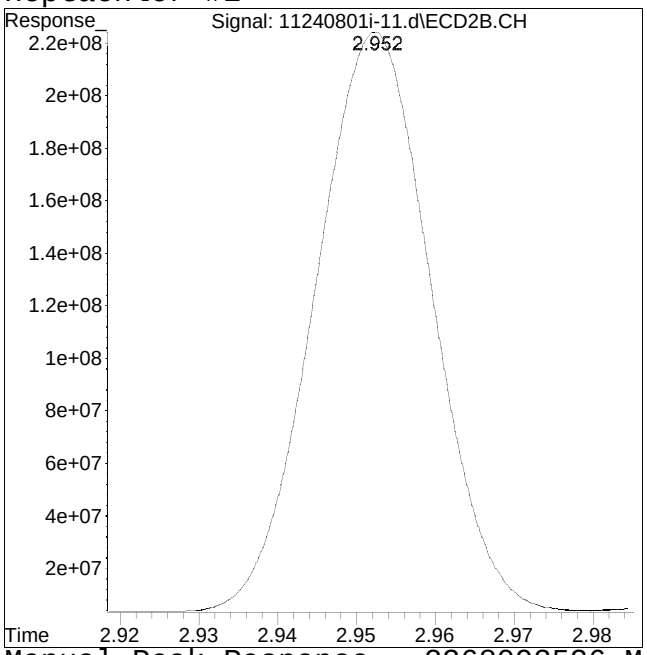
Original Peak Response = 2492847657 Manual Peak Response = 2482511634 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #46: Heptachlor #2





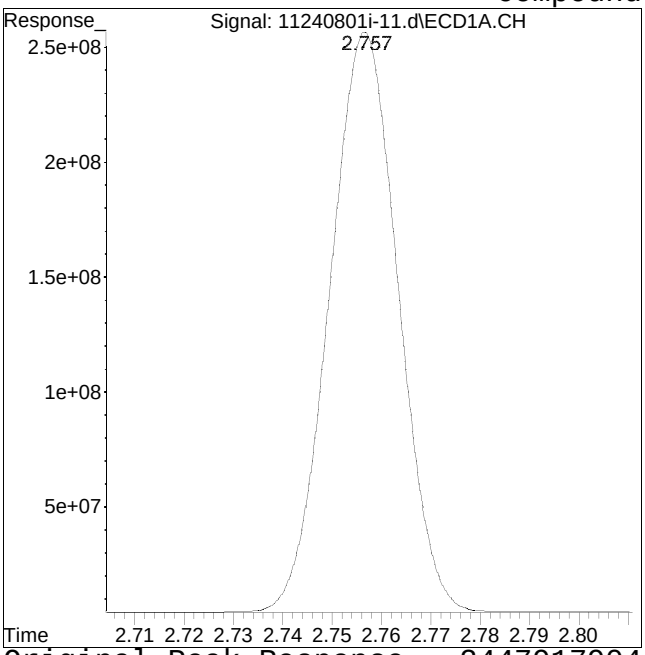
Original Peak Response = 2269011113 Manual Peak Response = 2268092526 M4
M4 = Poor automated baseline construction.

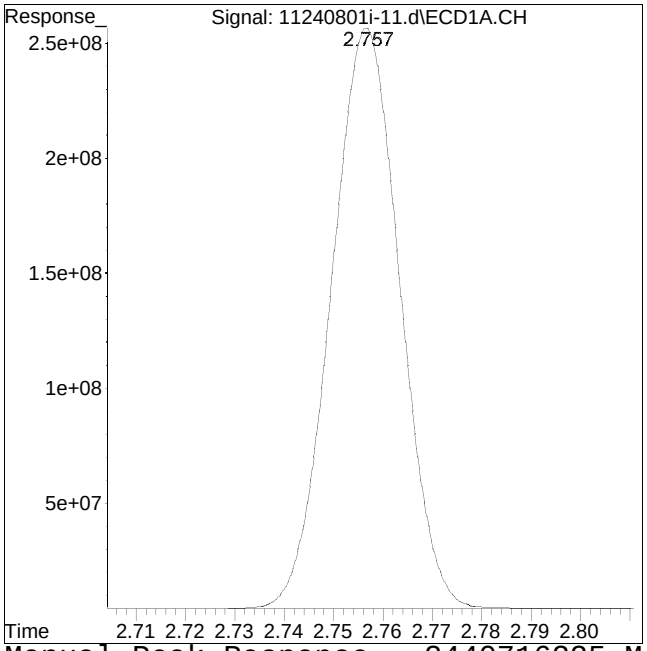
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #9: Aldrin





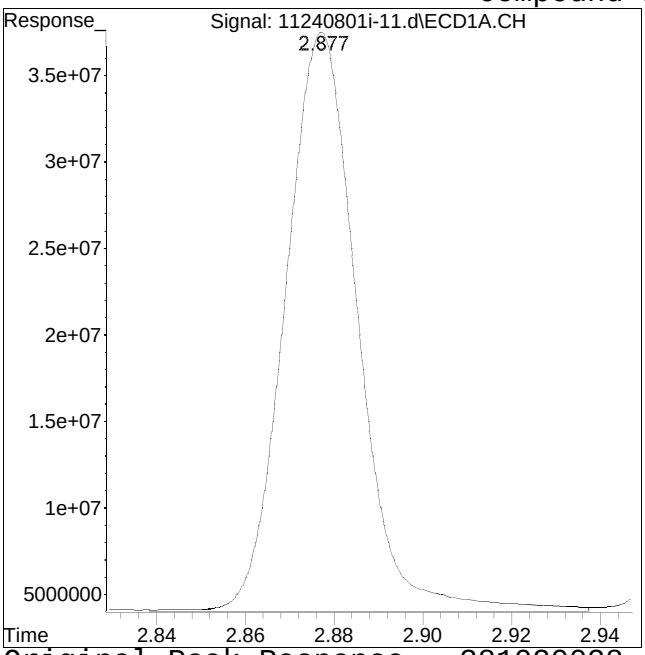
Original Peak Response = 2447917904 Manual Peak Response = 2440716225 M4
M4 = Poor automated baseline construction.

Manual Integration Report

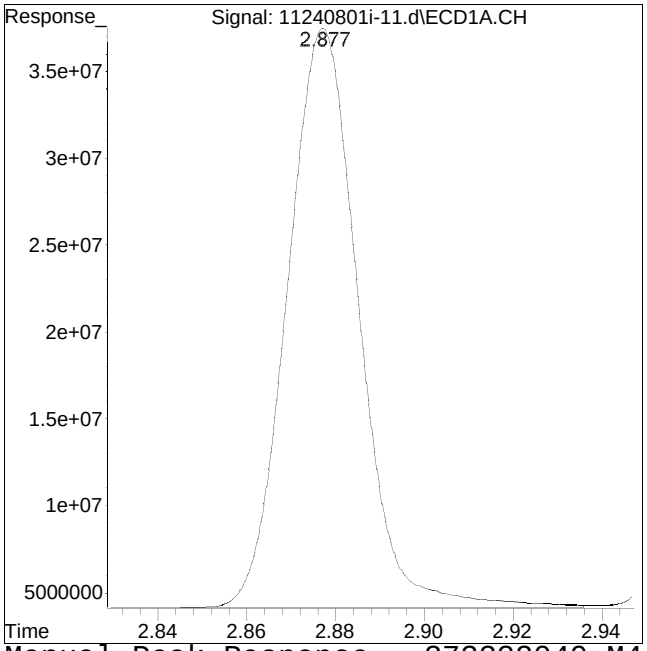
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #10: Alachlor



Original Peak Response = 381020028



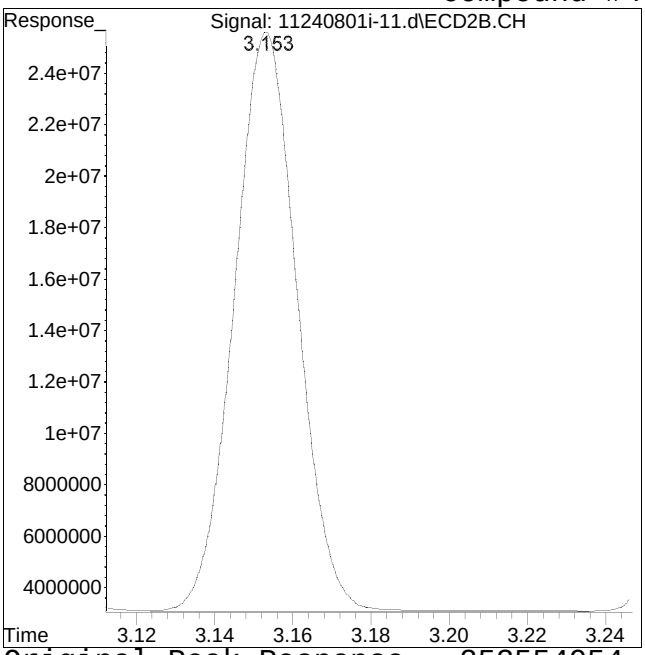
Manual Peak Response = 373332040 M4

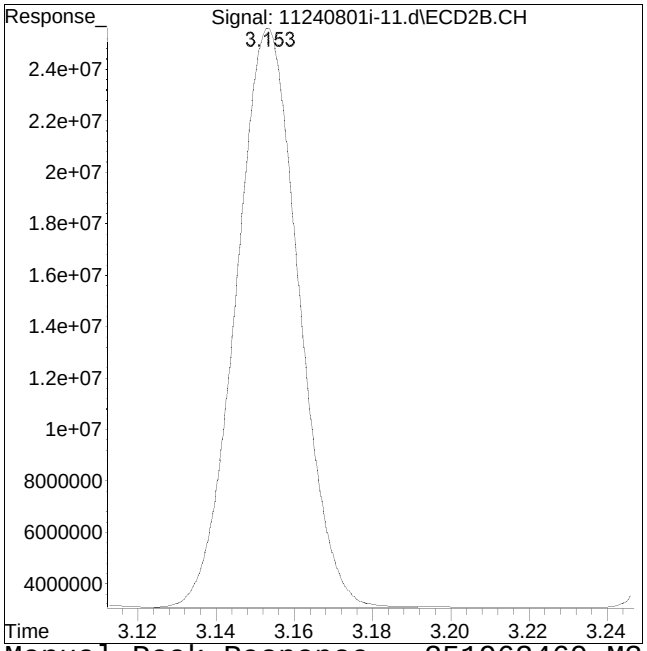
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #48: Alachlor #2





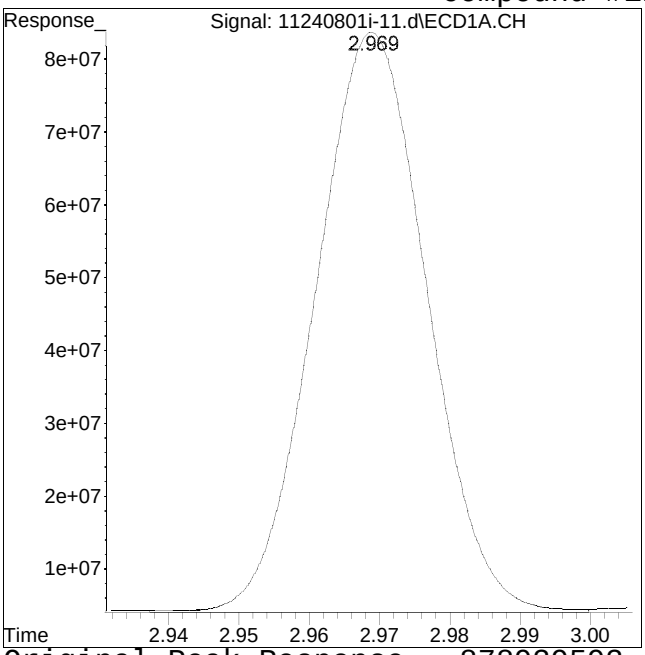
Original Peak Response = 253554954 Manual Peak Response = 251963460 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

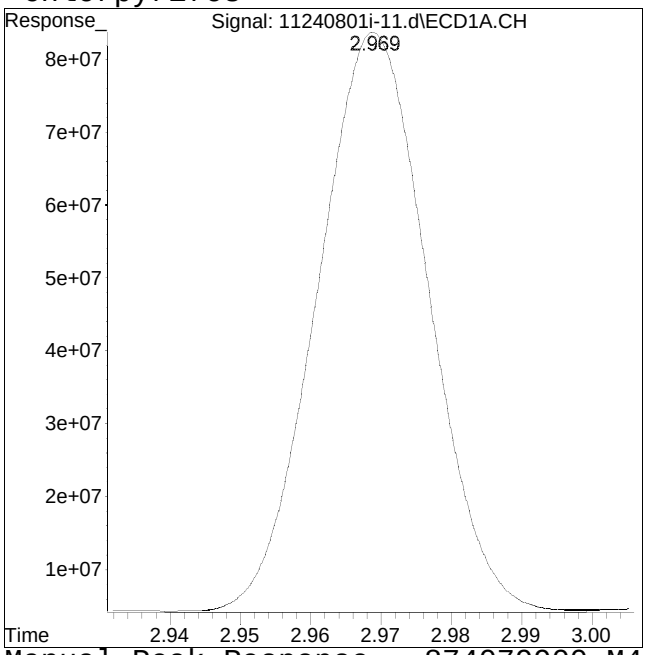
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #11: Chlorpyrifos



Original Peak Response = 878939593



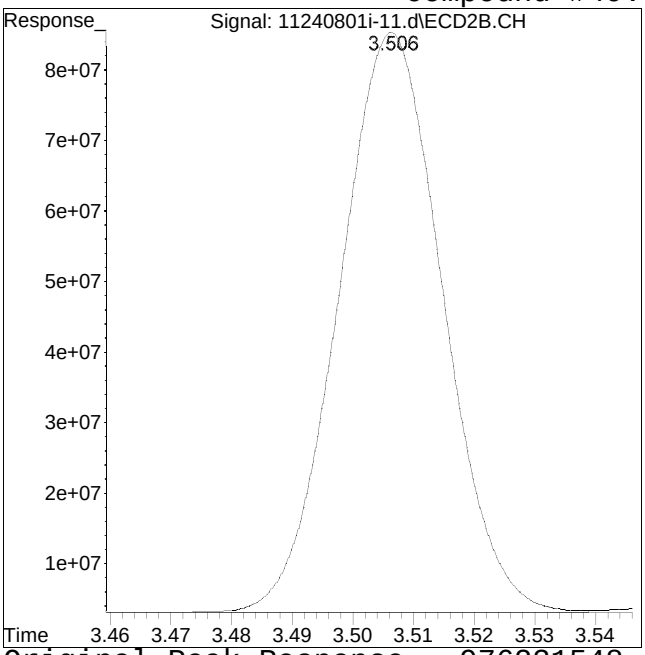
Manual Peak Response = 874079900 M4

M4 = Poor automated baseline construction.

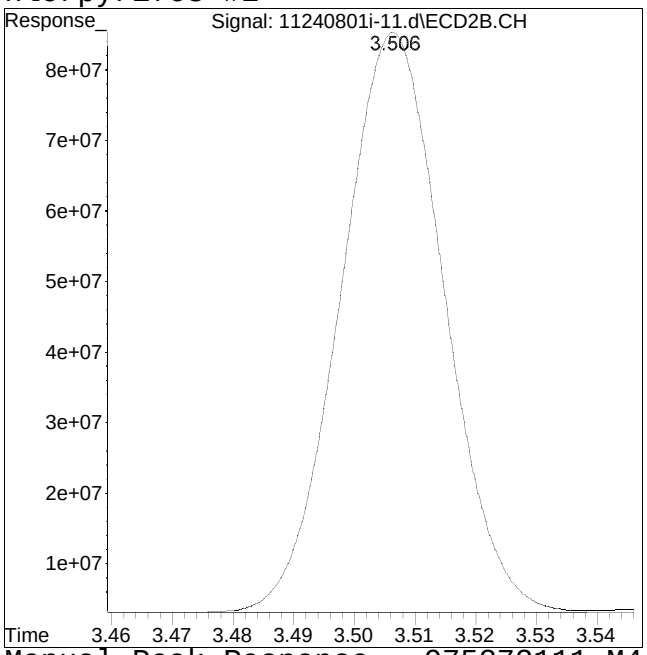
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 976231548



Manual Peak Response = 975272111 M4

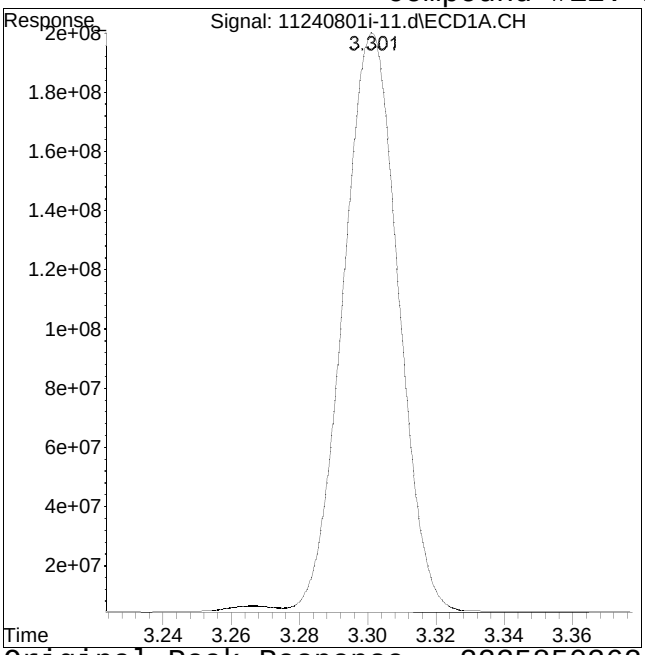
M4 = Poor automated baseline construction.

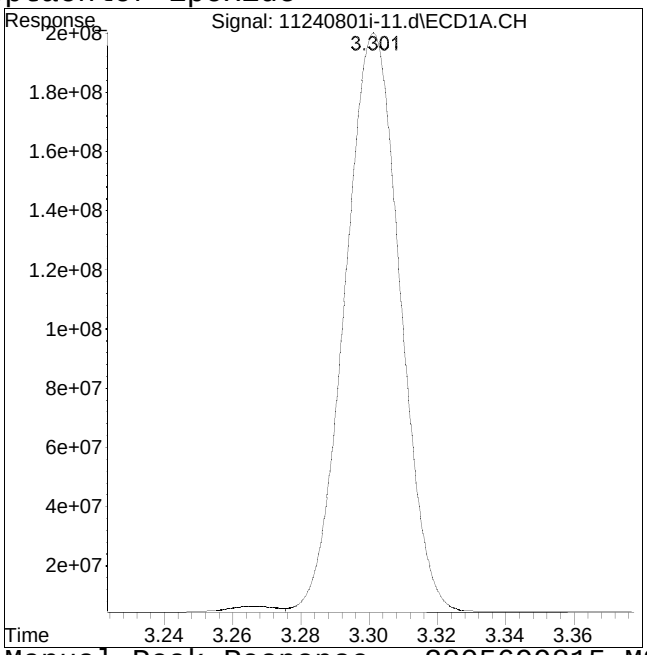
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 2235850362 Manual Peak Response = 2205699815 M3

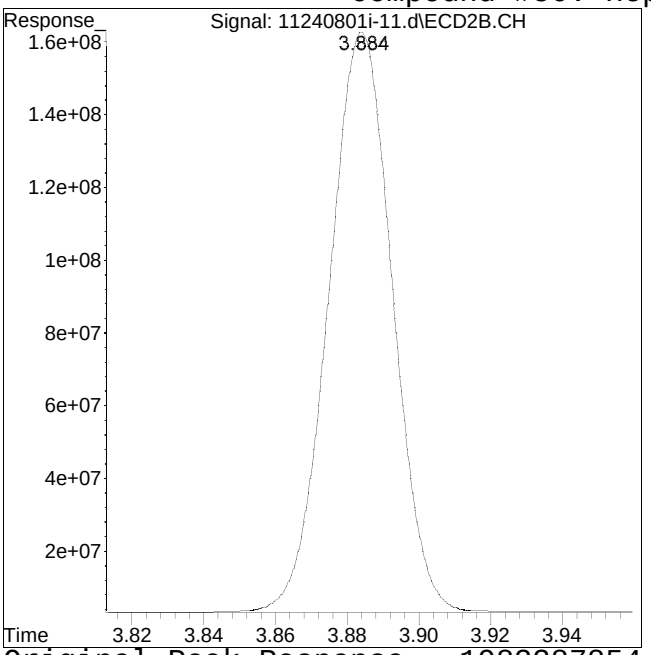
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

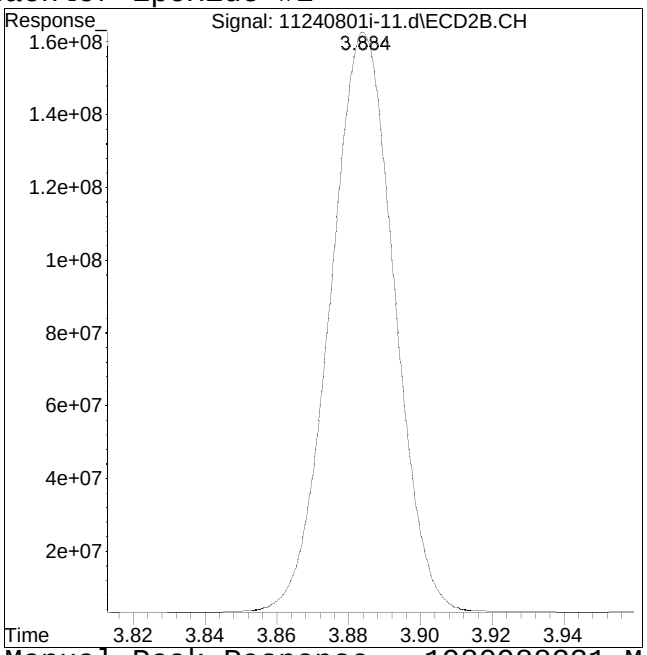
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #50: Heptachlor Epoxide #2





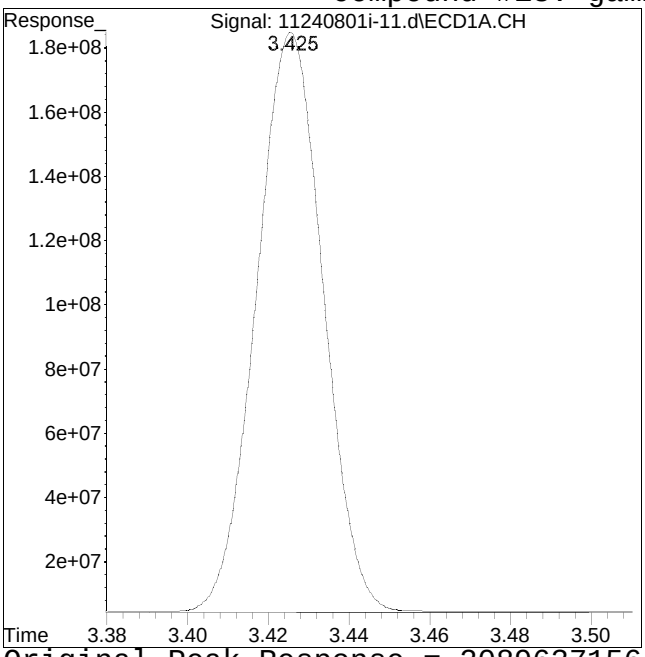
Original Peak Response = 1983387854 Manual Peak Response = 1980988231 M4
M4 = Poor automated baseline construction.

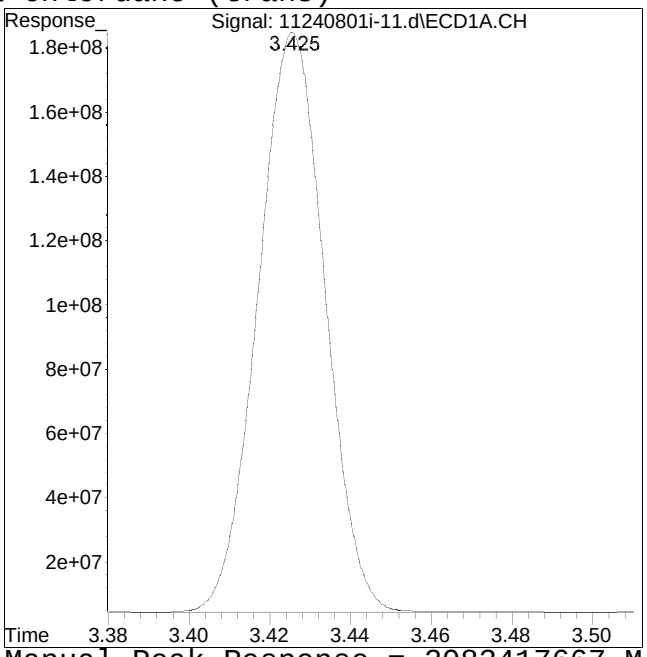
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #13: gamma-Chlordane (trans)



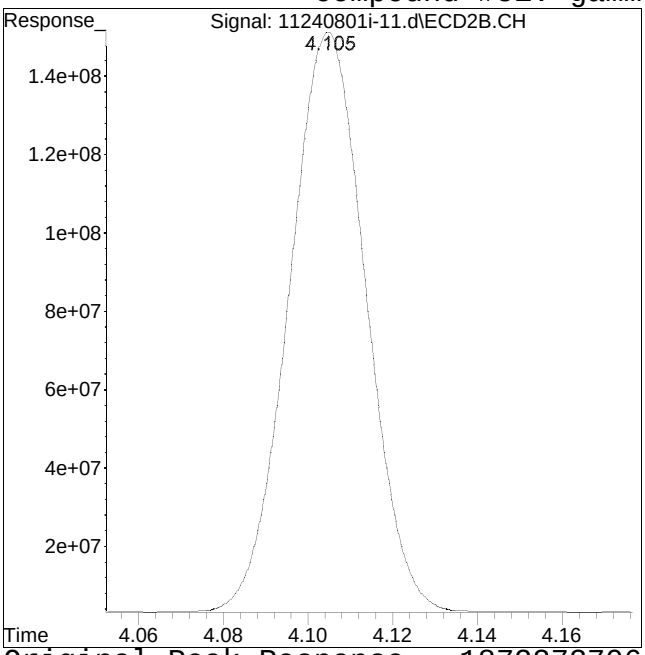


Original Peak Response = 2089637156 Manual Peak Response = 2083417667 M4
M4 = Poor automated baseline construction.

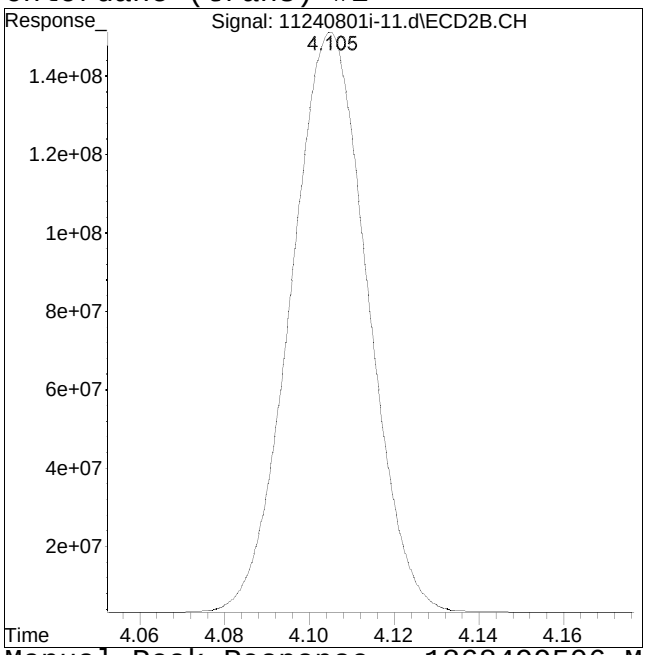
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 1872273706



Manual Peak Response = 1868499506 M4

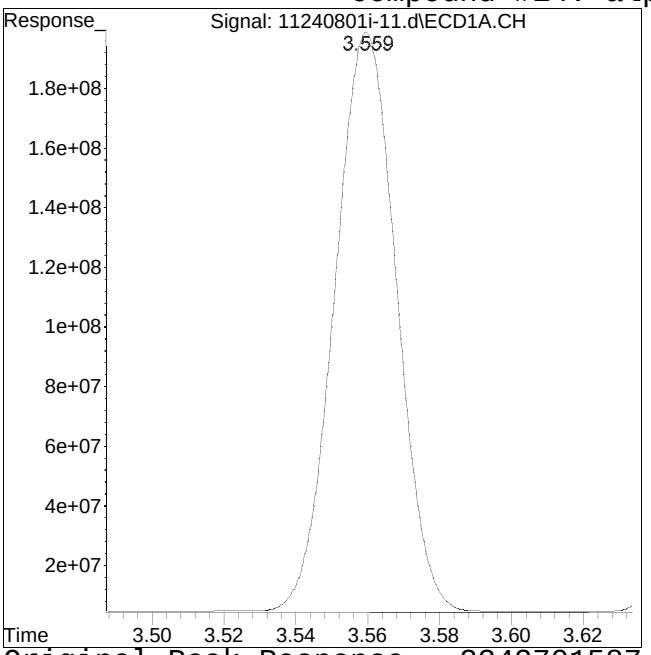
M4 = Poor automated baseline construction.

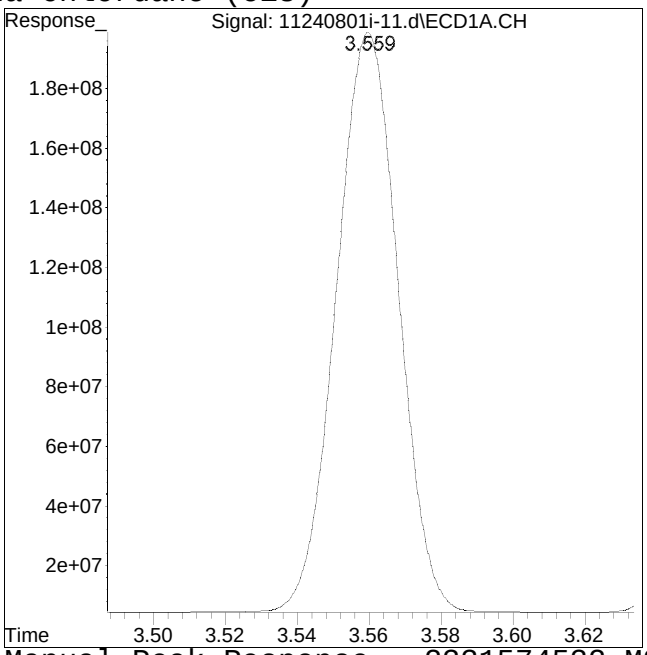
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #14: alpha-Chlordane (cis)





Original Peak Response = 2342701587 Manual Peak Response = 2331574532 M3

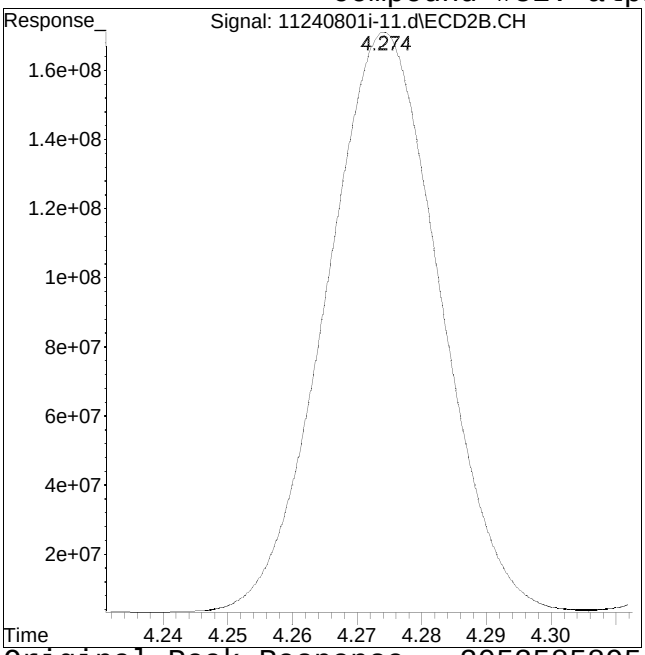
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

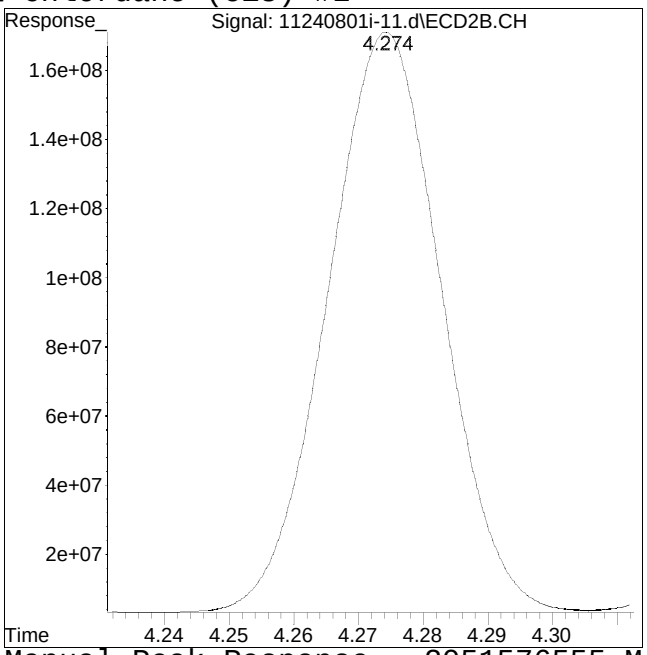
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 2053585895



Manual Peak Response = 2051576555 M4

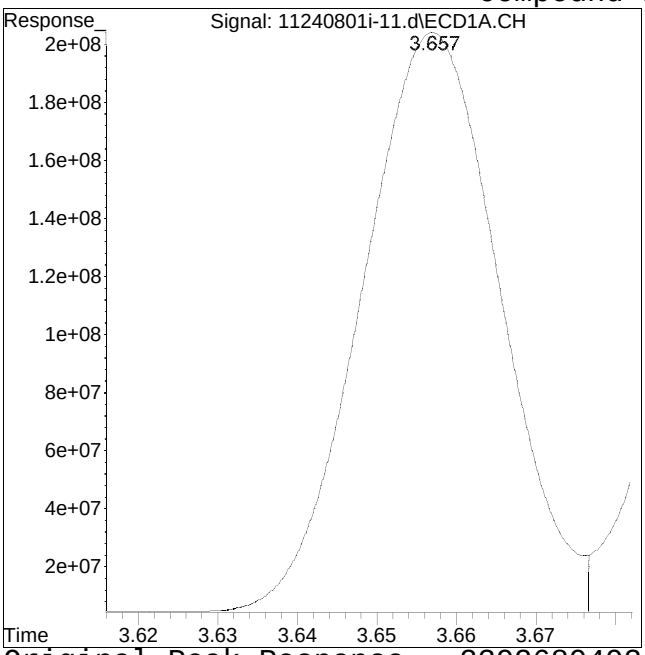
M4 = Poor automated baseline construction.

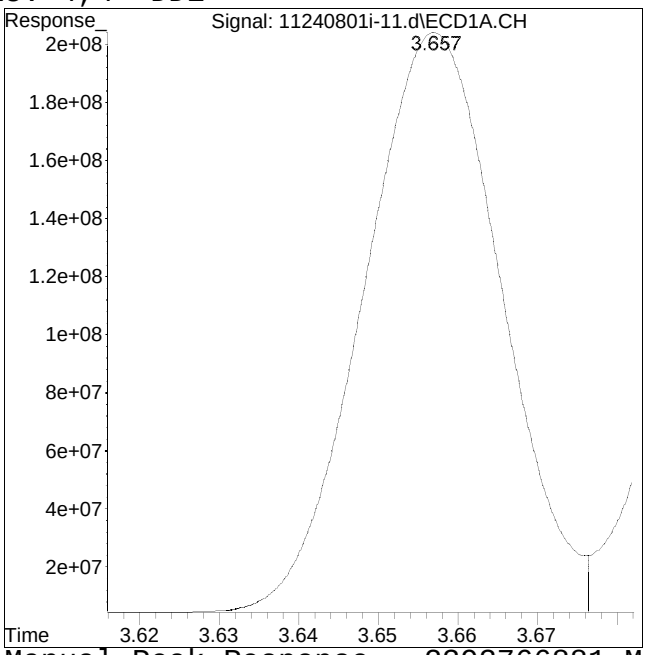
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #15: 4,4'-DDE





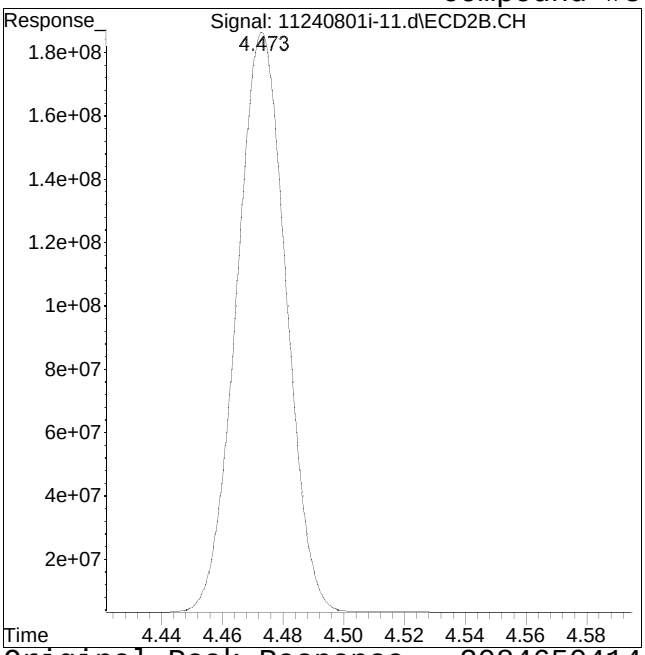
Original Peak Response = 2392689493 Manual Peak Response = 2393766881 M4
M4 = Poor automated baseline construction.

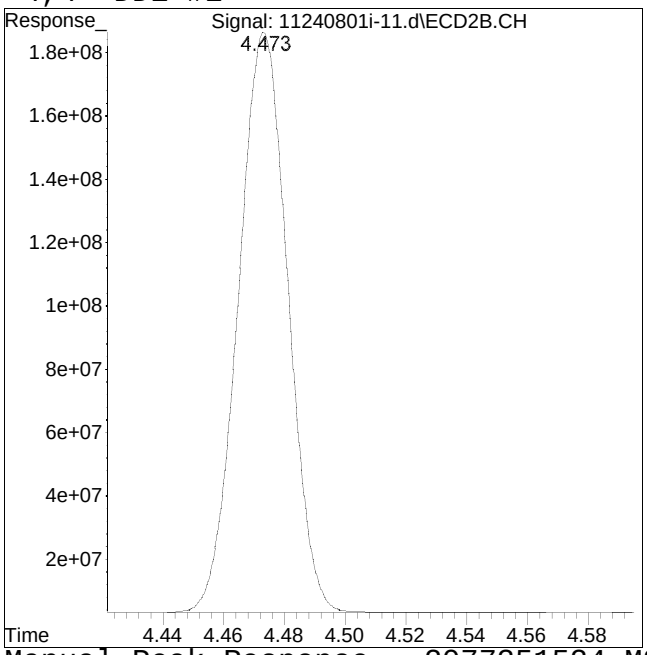
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #53: 4,4'-DDE #2





Original Peak Response = 2084650414 Manual Peak Response = 2077351524 M3

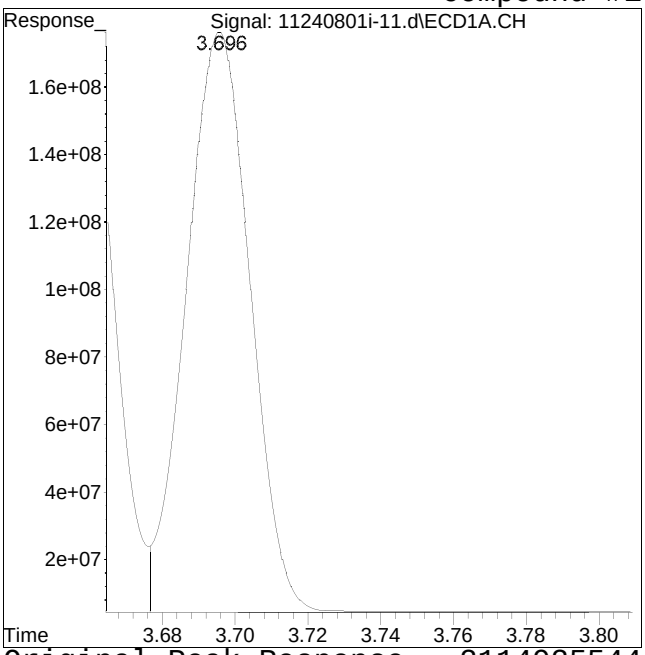
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

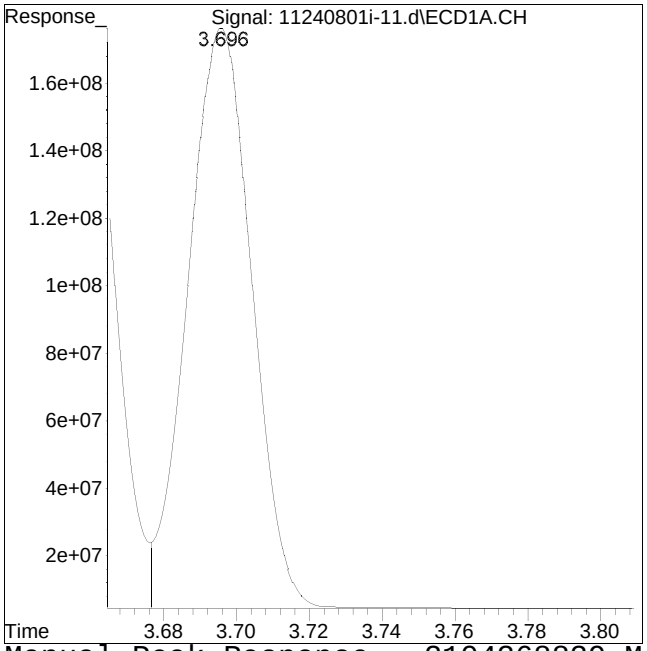
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #16: Endosulfan I



Original Peak Response = 2114925544



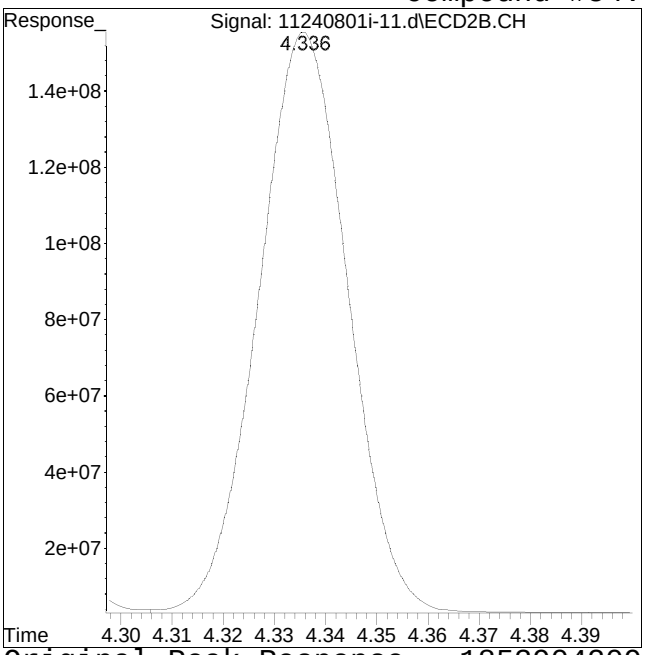
Manual Peak Response = 2104368839 M4

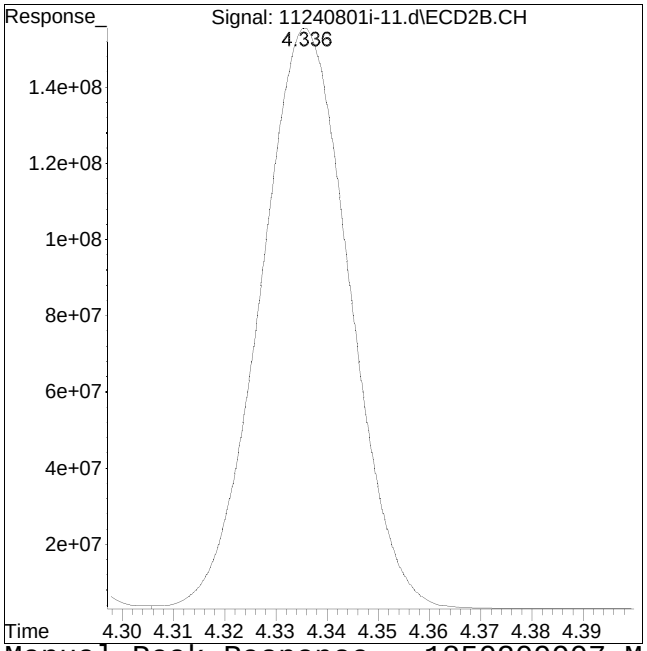
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #54: Endosulfan I #2





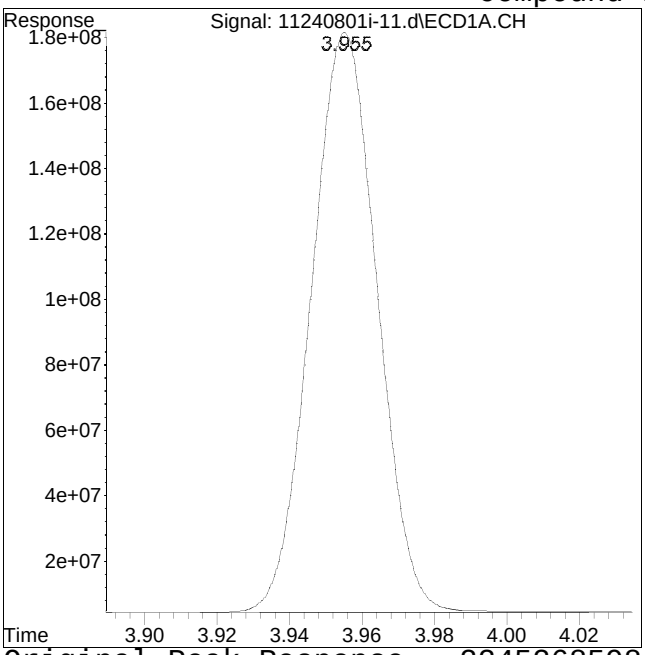
Original Peak Response = 1853904209 Manual Peak Response = 1850209907 M4
M4 = Poor automated baseline construction.

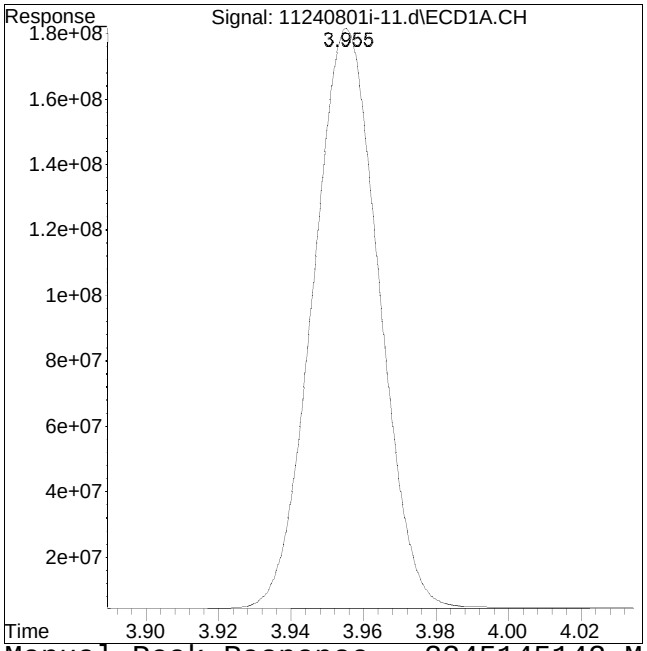
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #17: Dieldrin



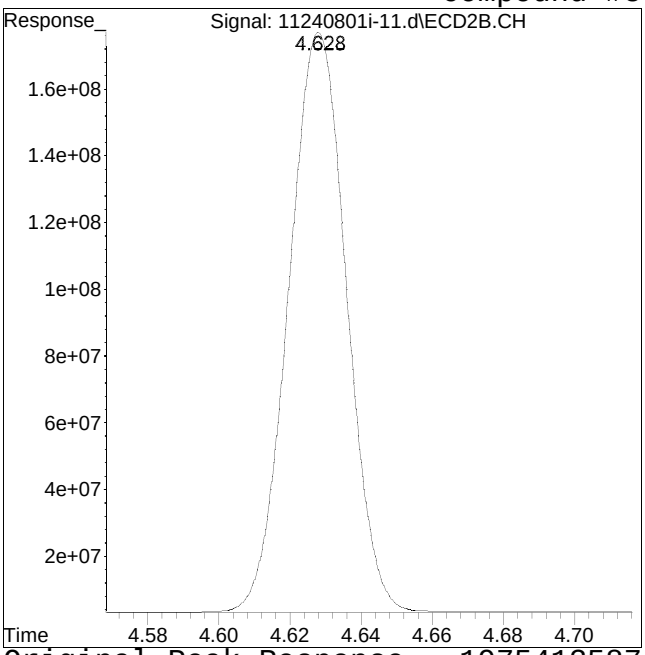


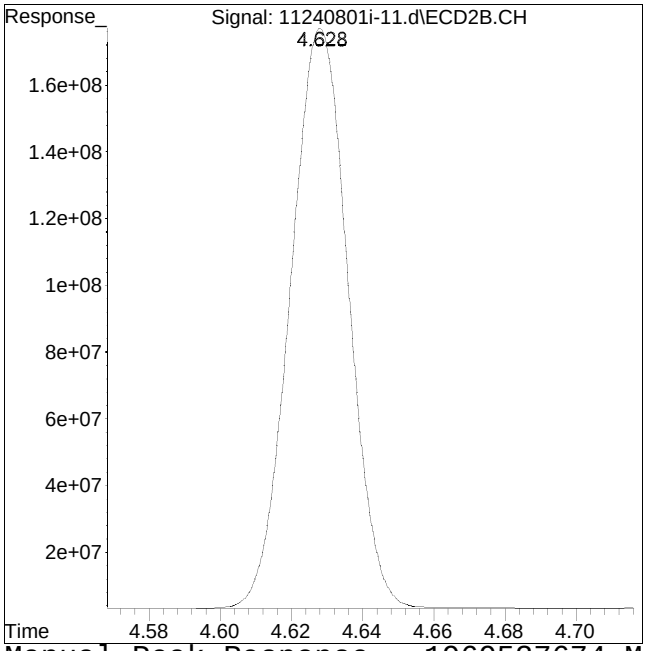
Original Peak Response = 2245268598 Manual Peak Response = 2245145142 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #55: Dieldrin #2





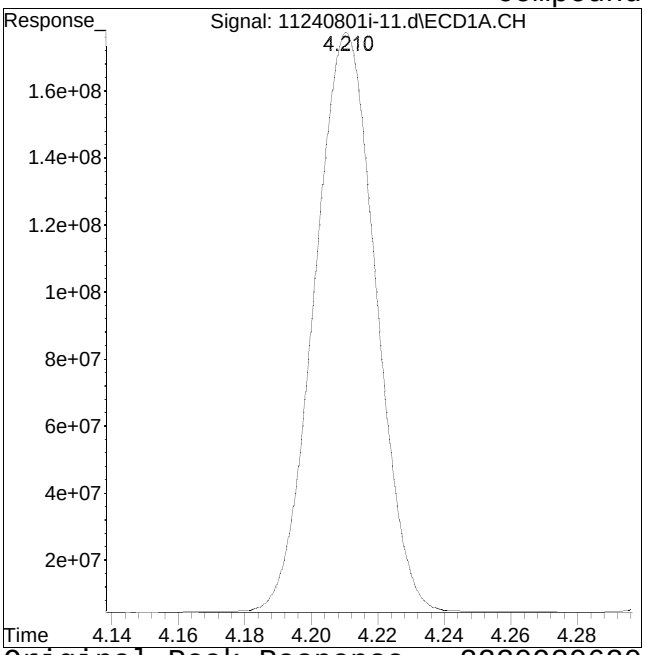
Original Peak Response = 1975413587 Manual Peak Response = 1969537674 M4
M4 = Poor automated baseline construction.

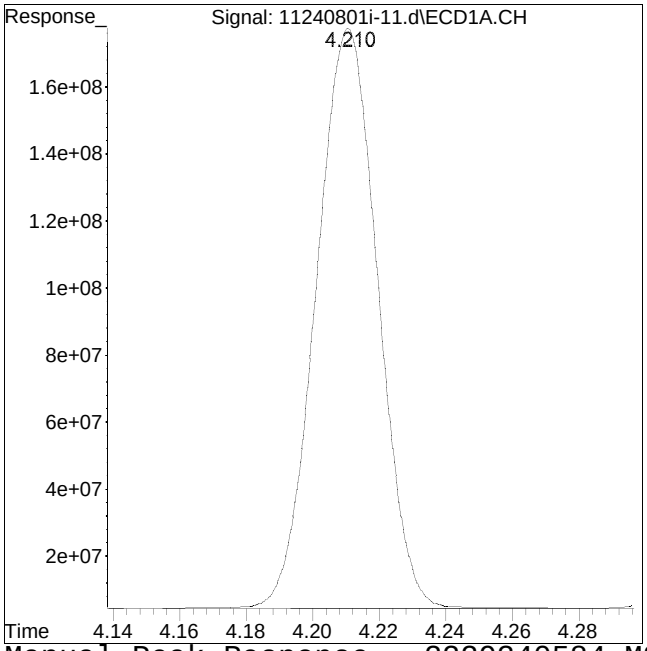
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #18: Endrin



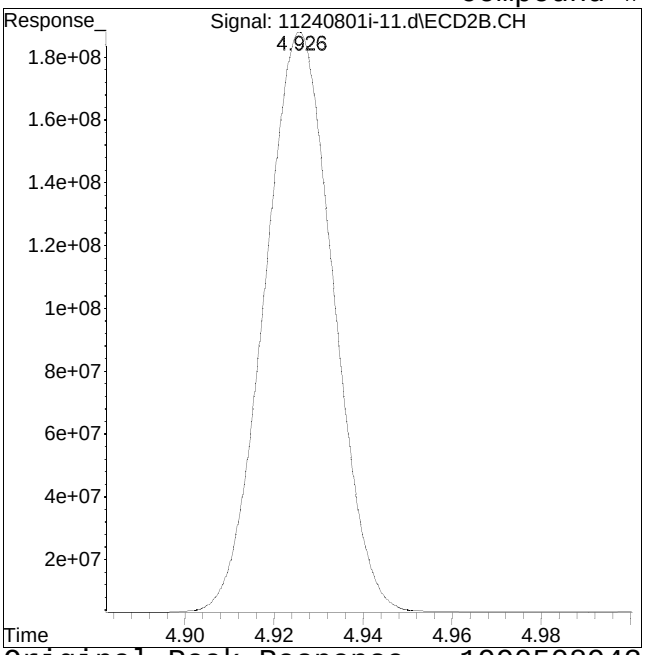


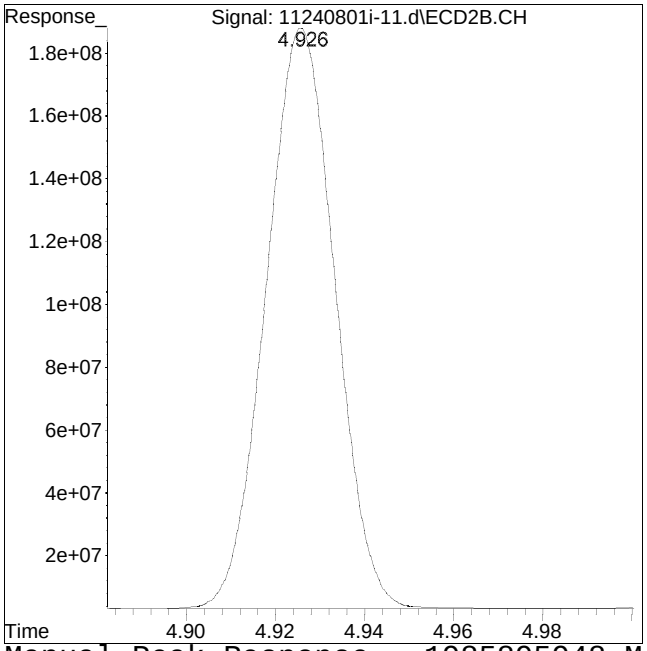
Original Peak Response = 2230939620 Manual Peak Response = 2229340584 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #56: Endrin #2





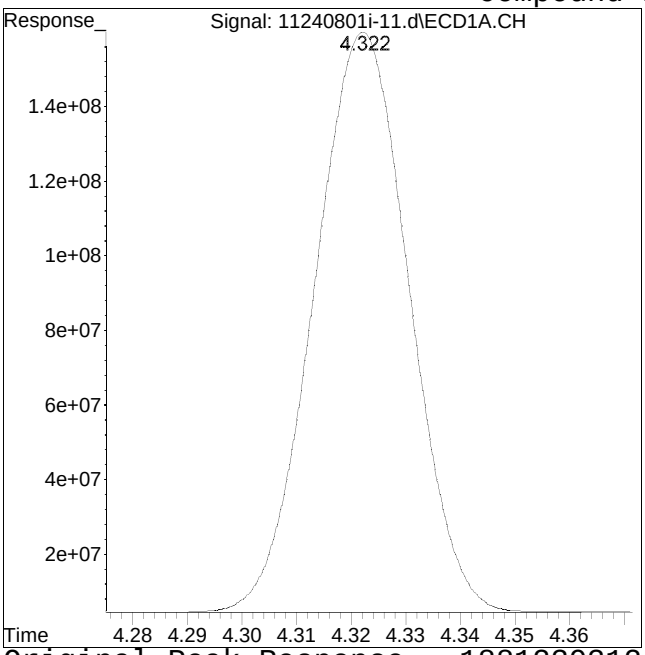
Original Peak Response = 1990508943 Manual Peak Response = 1985895948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

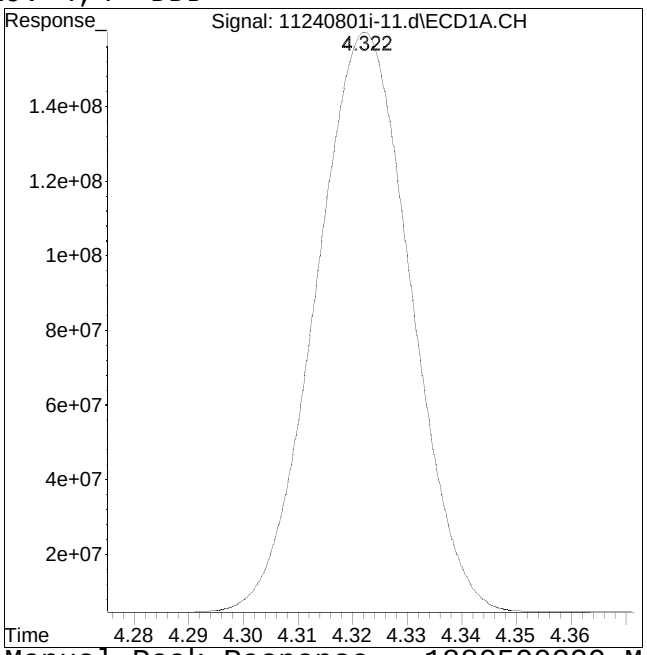
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #19: 4,4'-DDD



Original Peak Response = 1881239312



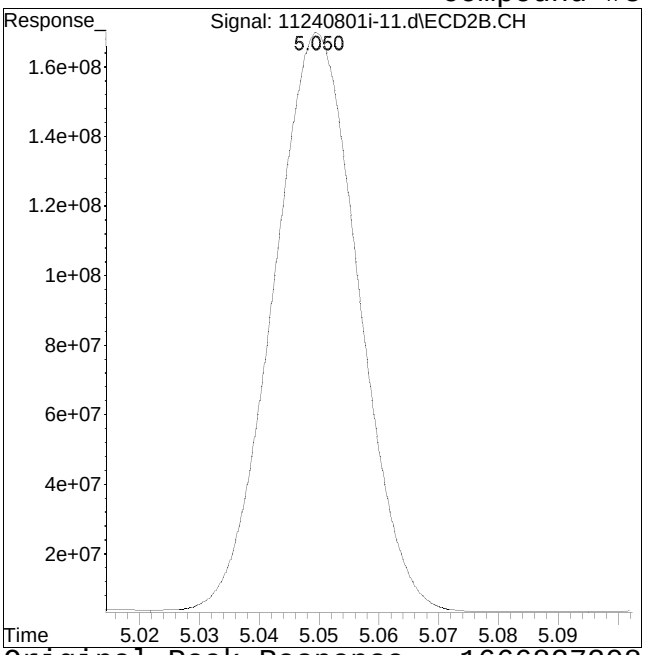
Manual Peak Response = 1880500229 M4

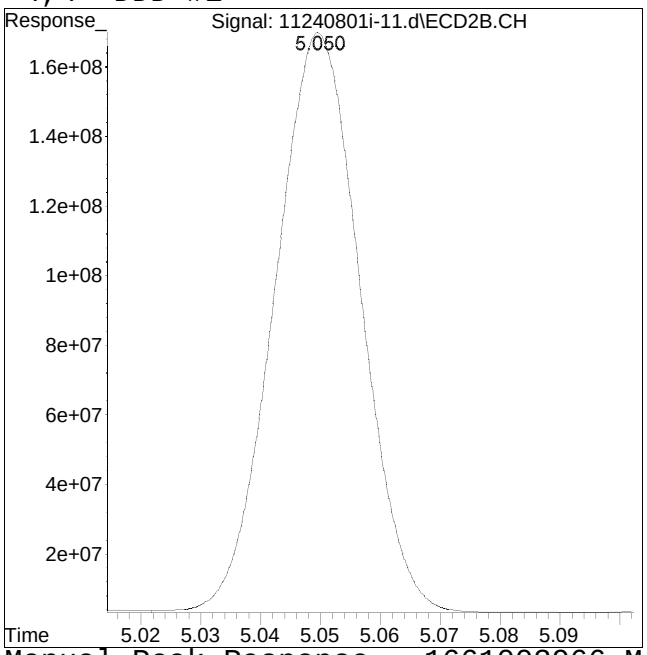
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #57: 4,4'-DDD #2





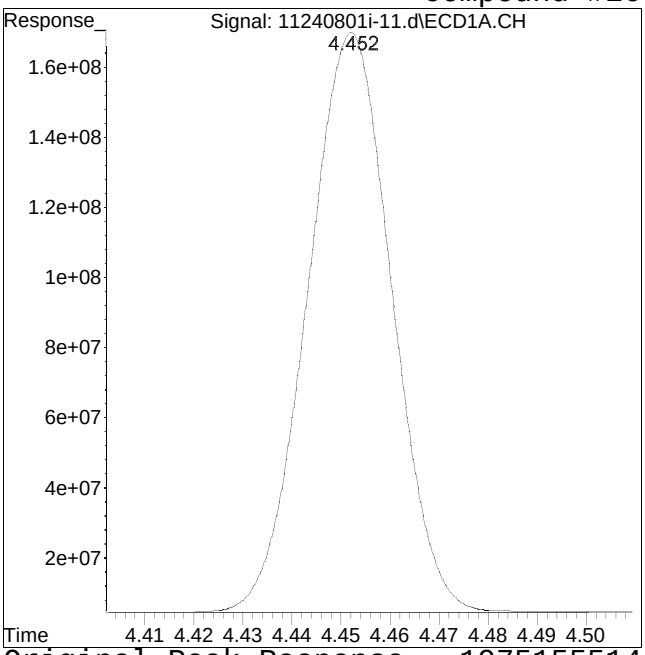
Original Peak Response = 1666827208 Manual Peak Response = 1661003966 M4
M4 = Poor automated baseline construction.

Manual Integration Report

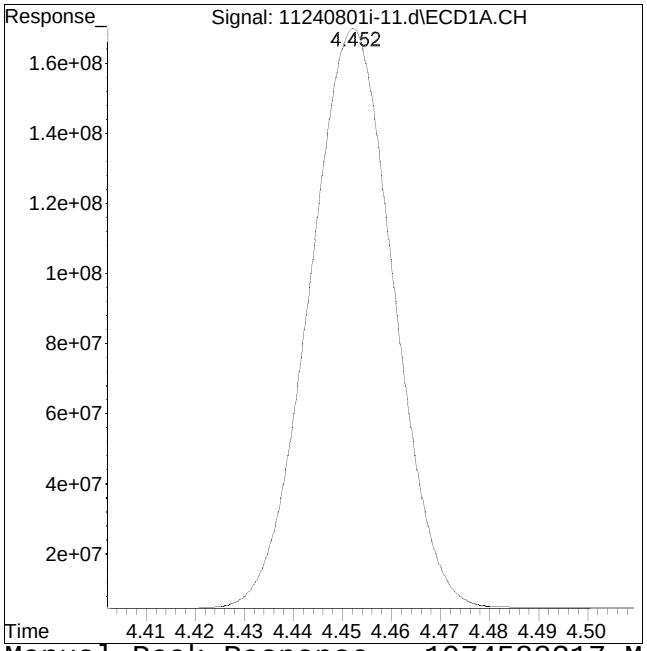
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #20: Endosulfan II



Original Peak Response = 1975155514



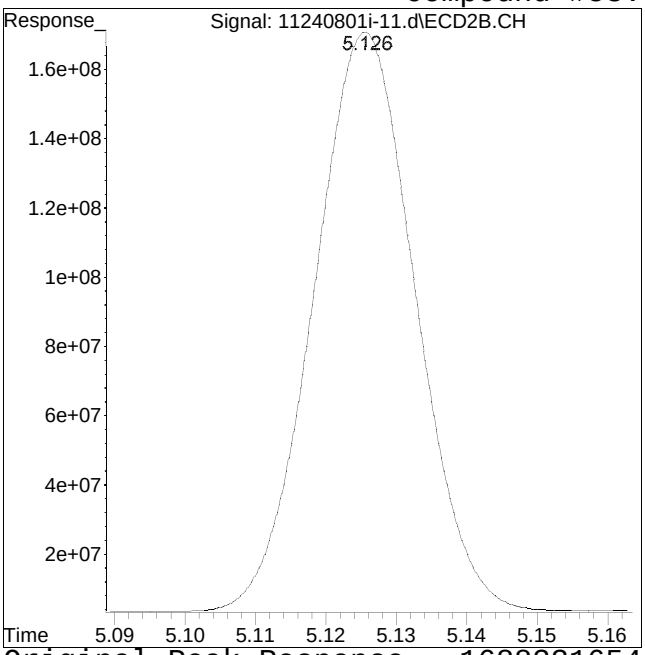
Manual Peak Response = 1974588317 M4

M4 = Poor automated baseline construction.

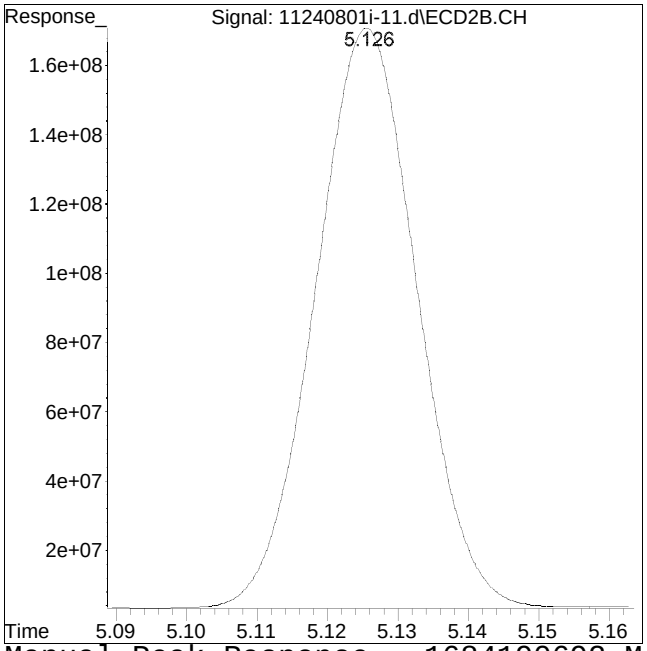
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #58: Endosulfan II #2



Original Peak Response = 1688331654



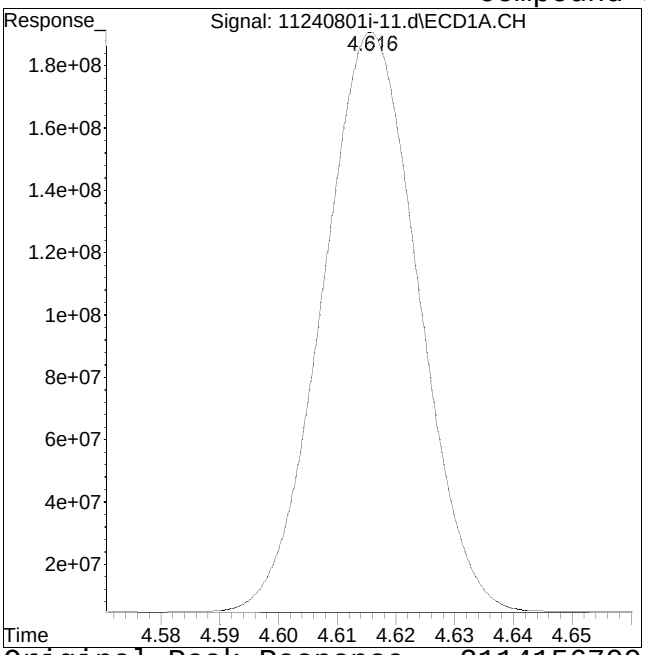
Manual Peak Response = 1684190692 M4
M4 = Poor automated baseline construction.

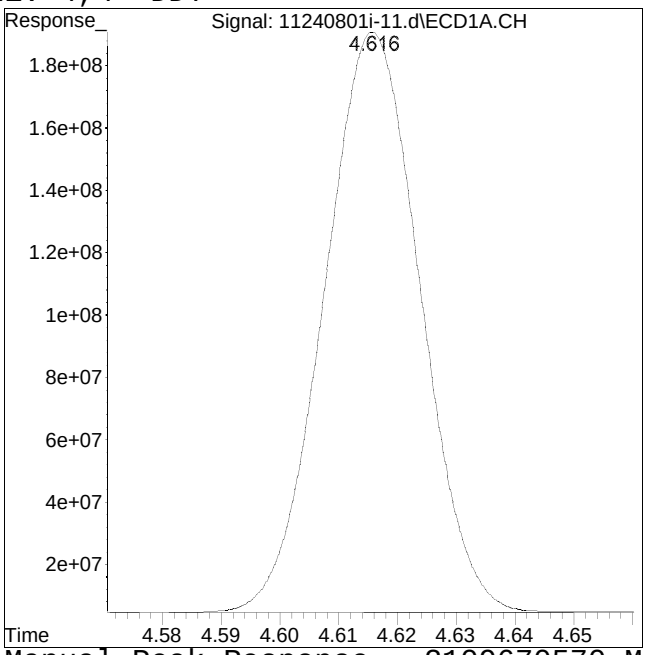
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #21: 4,4'-DDT



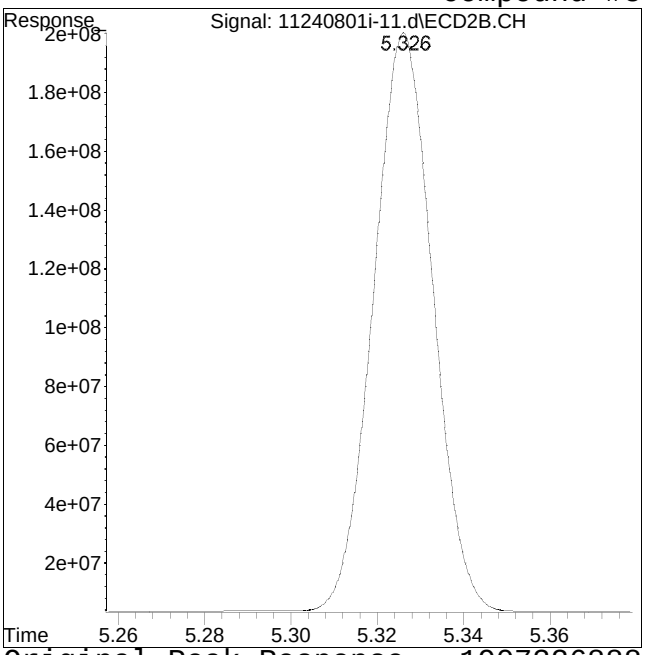


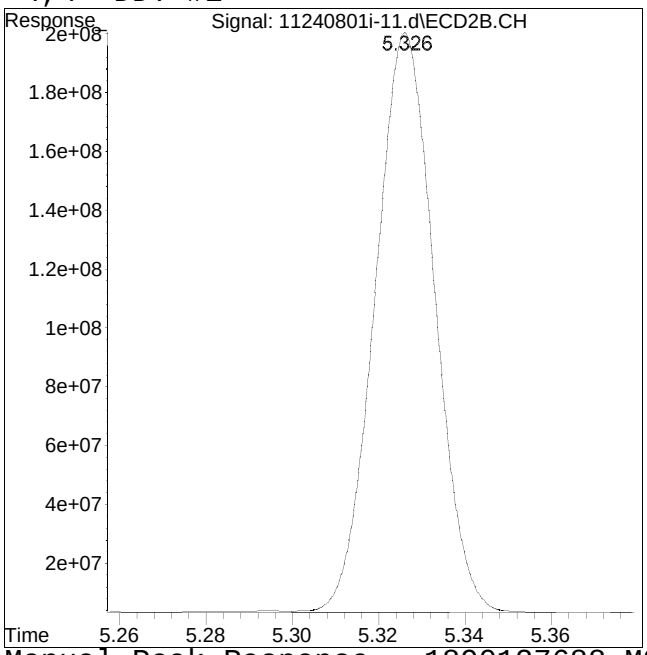
Original Peak Response = 2114156709 Manual Peak Response = 2109670570 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #59: 4,4'-DDT #2



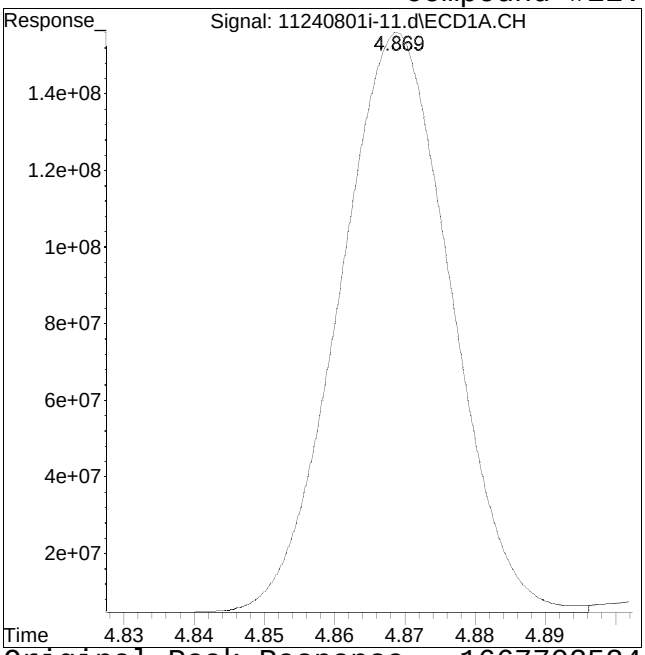


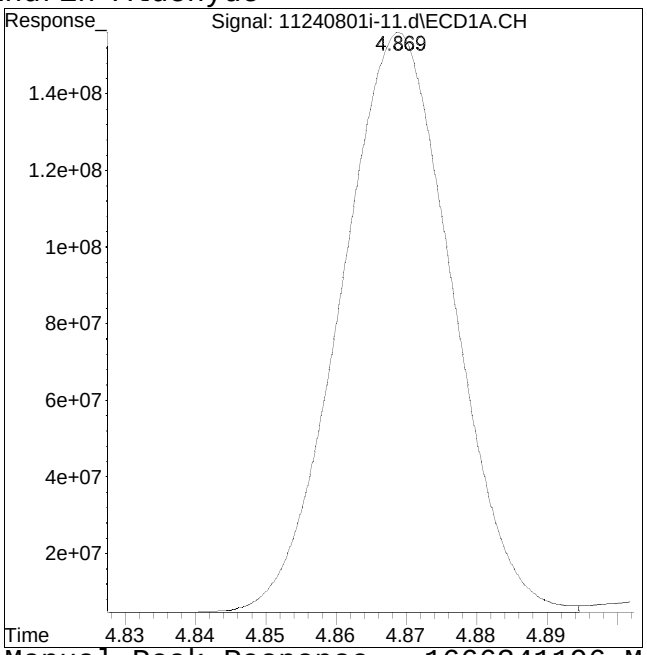
Original Peak Response = 1907326888 Manual Peak Response = 1890127688 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #22: Endrin Aldehyde



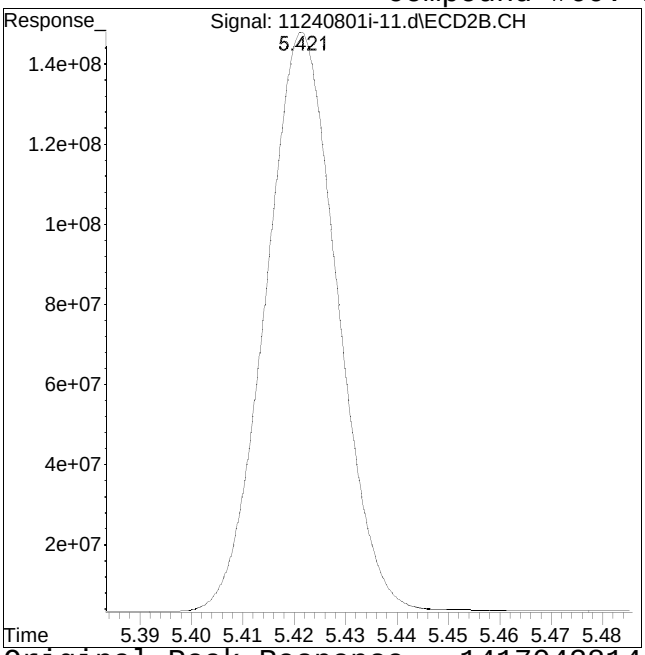


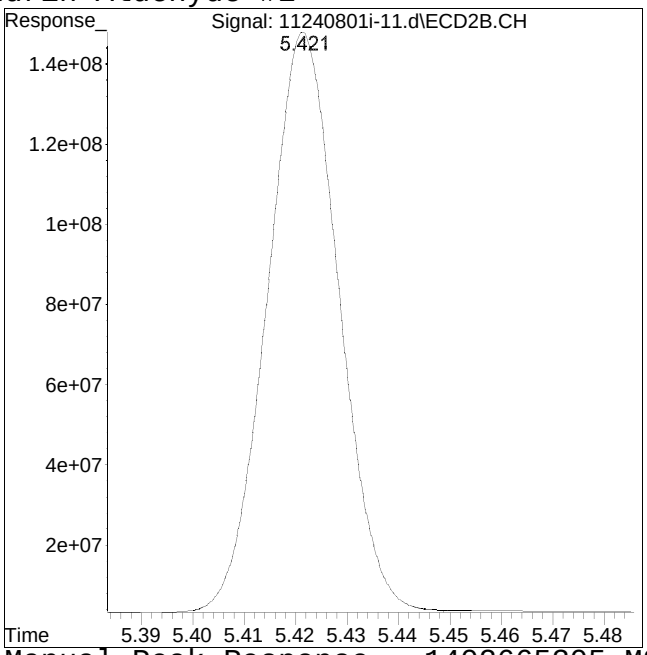
Original Peak Response = 1667702524 Manual Peak Response = 1666341196 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #60: Endrin Aldehyde #2





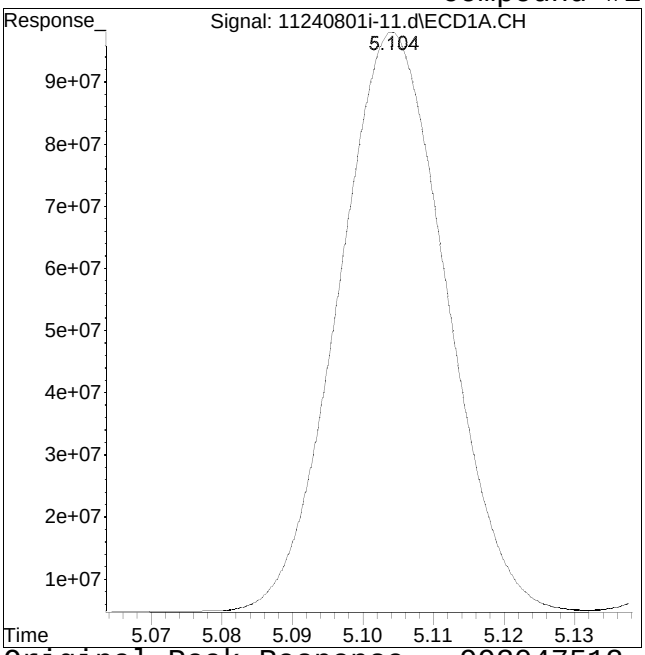
Original Peak Response = 1417043814 Manual Peak Response = 1402665305 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

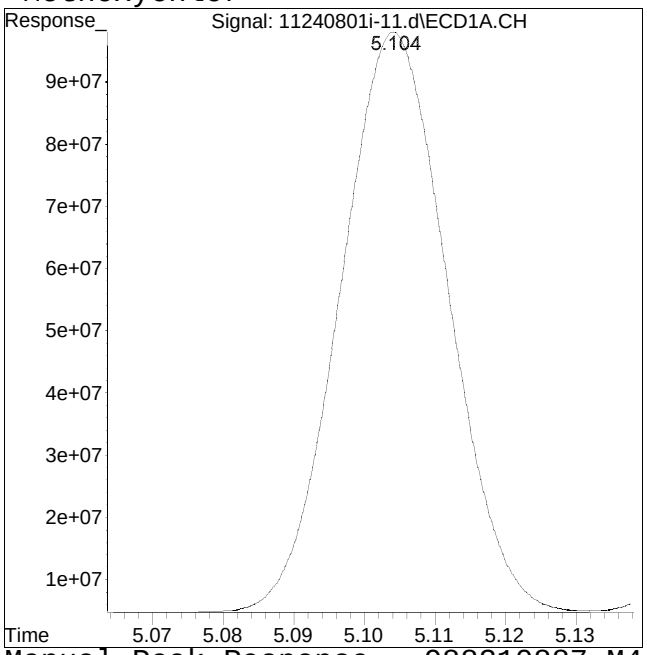
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #23: Methoxychlor



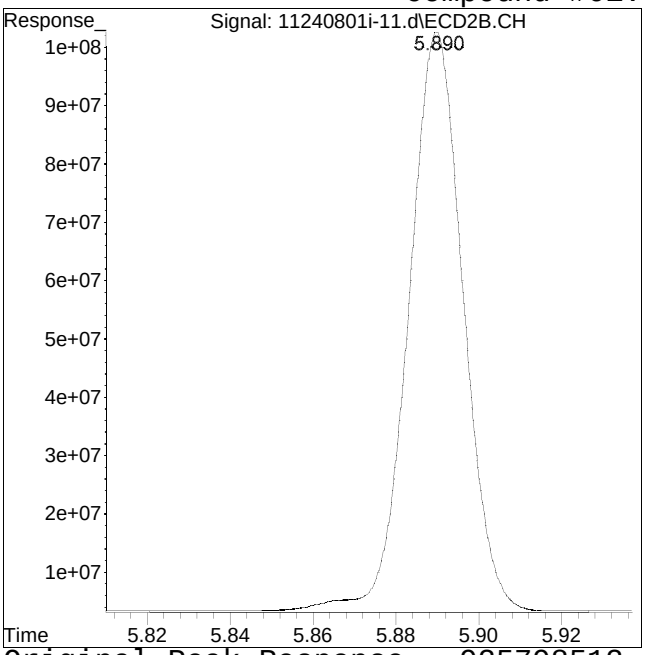


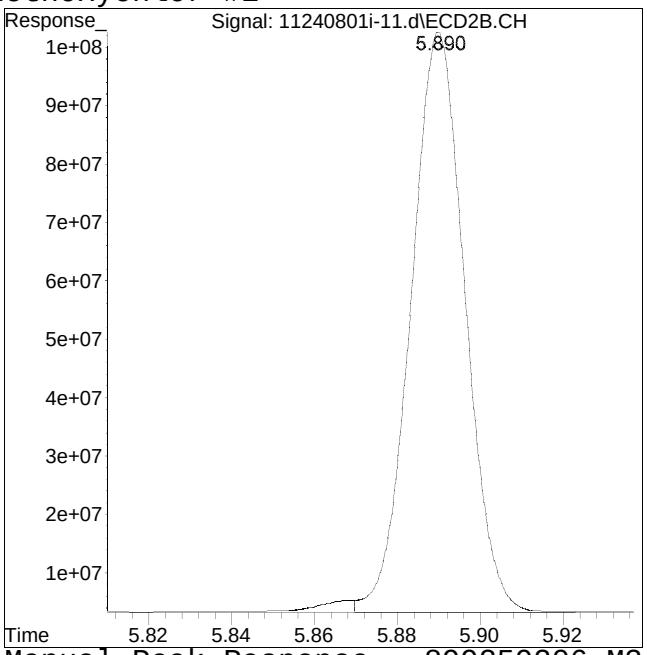
Original Peak Response = 993047512 Manual Peak Response = 988310887 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #61: Methoxychlor #2





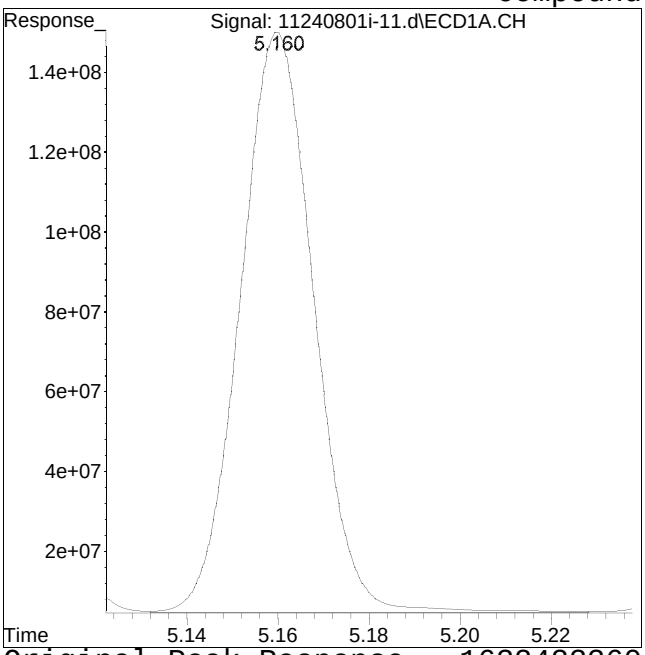
Original Peak Response = 925798512 Manual Peak Response = 899259206 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

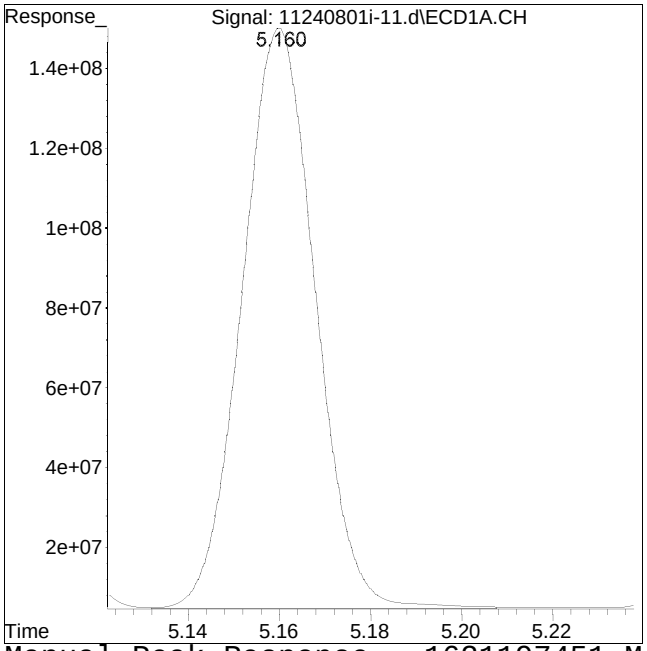
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #24: Mirex



Original Peak Response = 1632423360



Manual Peak Response = 1621197451 M4

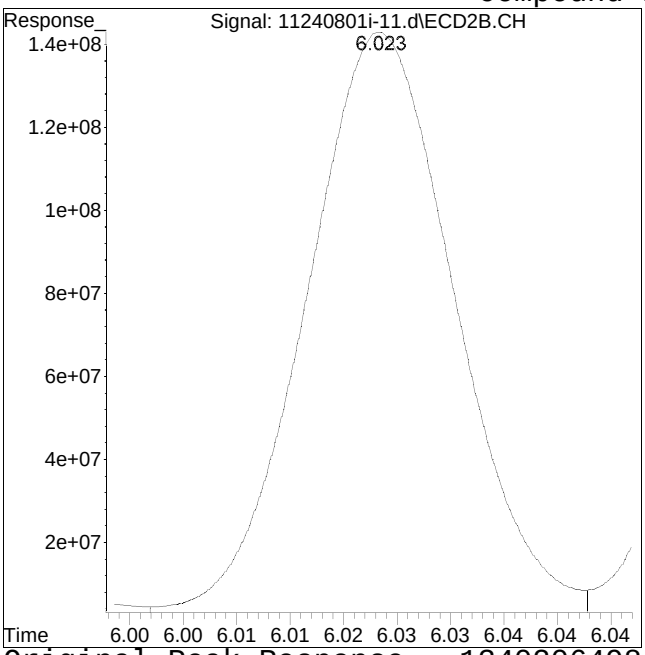
M4 = Poor automated baseline construction.

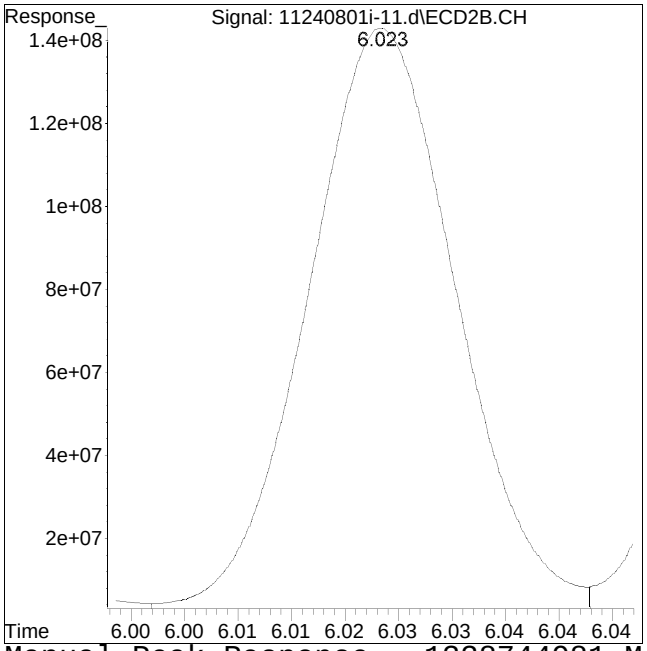
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #62: Mirex #2



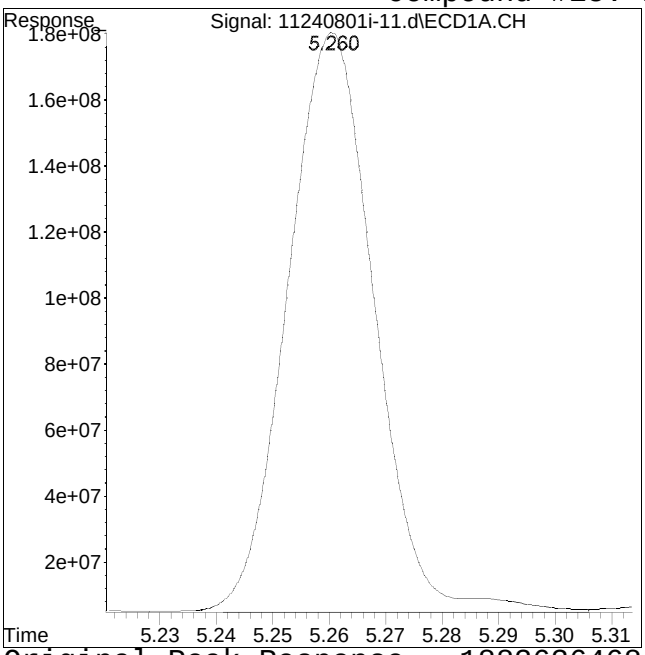


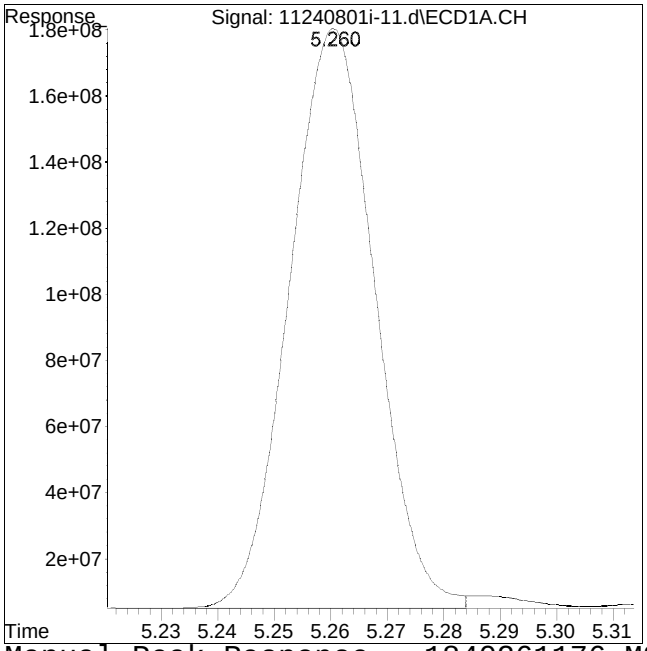
Original Peak Response = 1340206498 Manual Peak Response = 1338744981 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #25: Endosulfan Sulfate





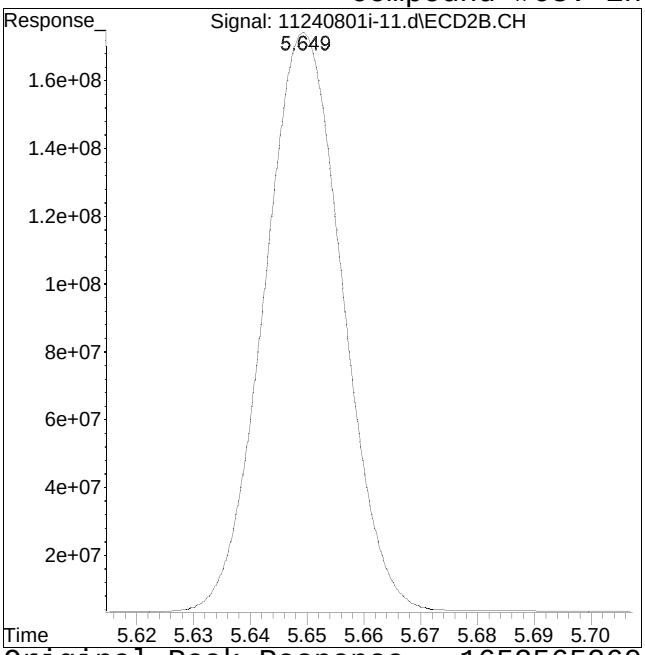
Original Peak Response = 1883636468 Manual Peak Response = 1840261176 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

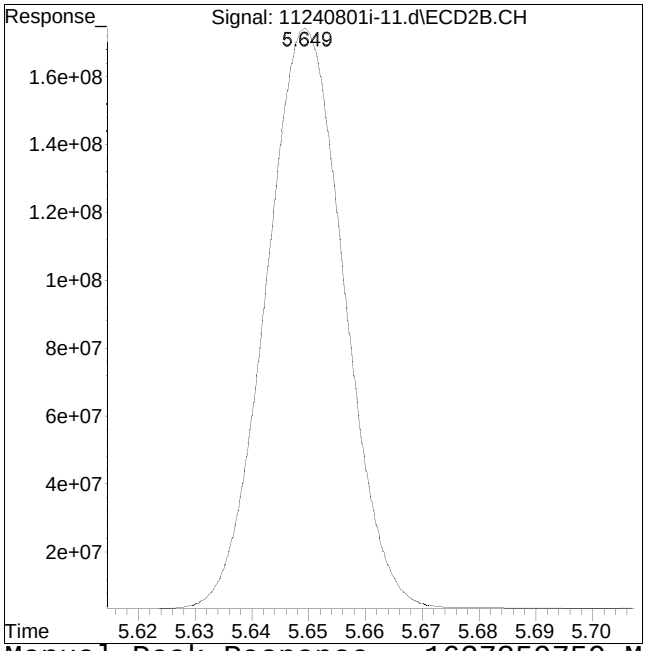
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 1652565260



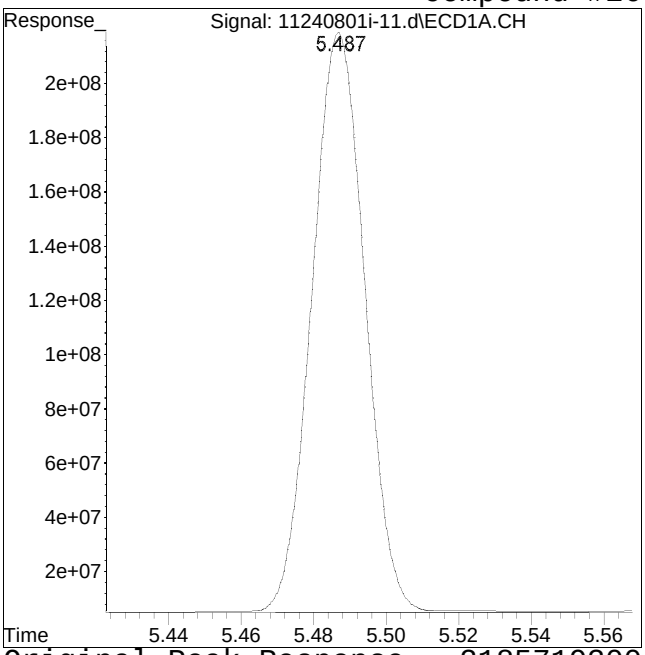
Manual Peak Response = 1637359759 M4

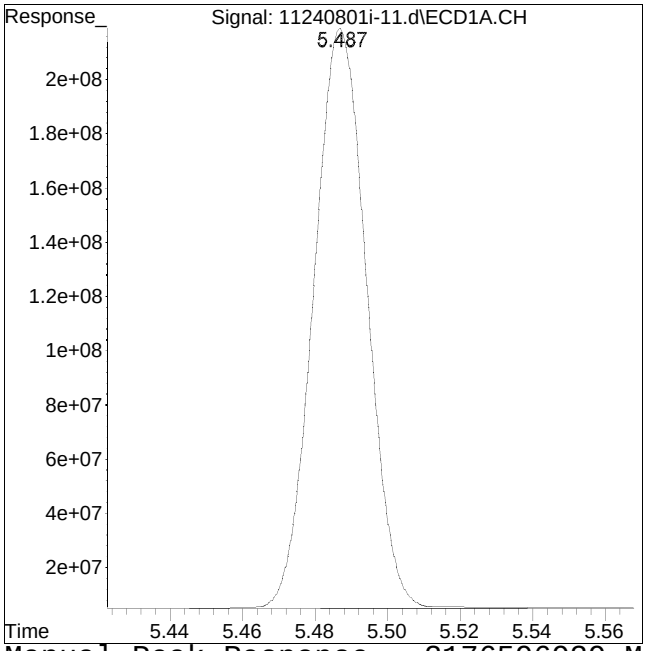
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-11.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:12 Instrument : Pest 11
Sample : il10pest,42e,,pp 11679 L0.Quant Date : 8/2/2024 9:29 am

Compound #26: Endrin Ketone





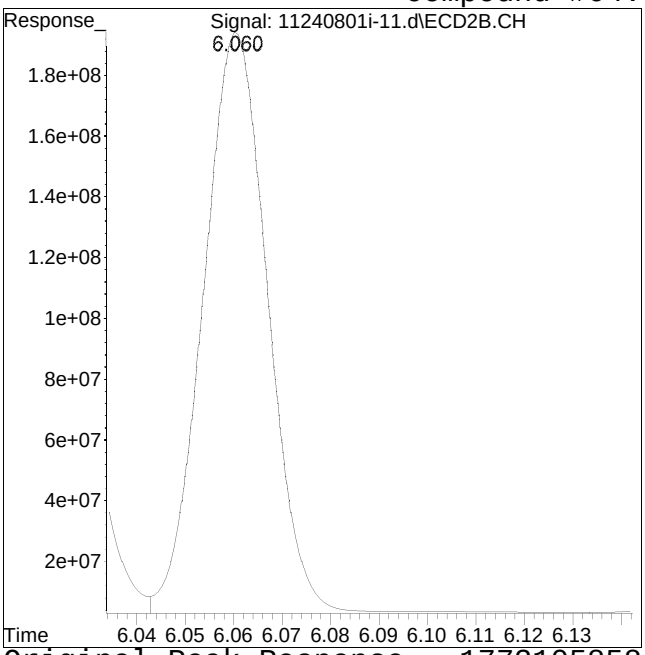
Original Peak Response = 2185719300 Manual Peak Response = 2176596939 M4
M4 = Poor automated baseline construction.

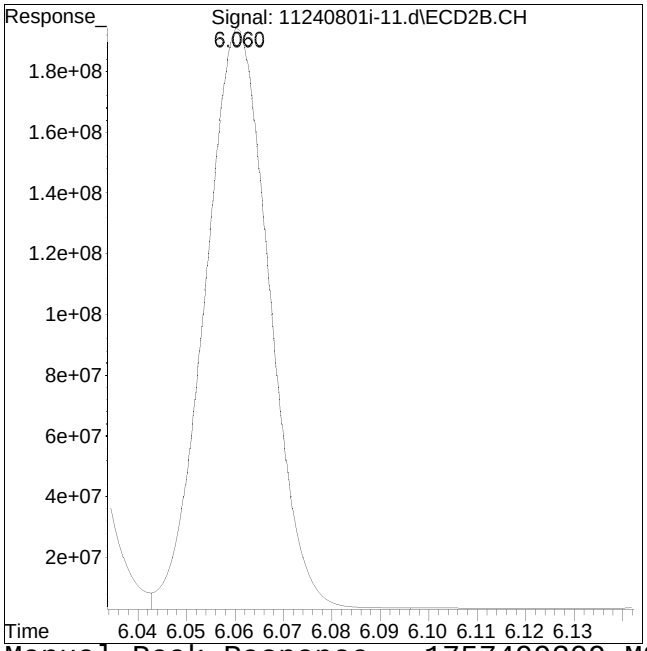
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #64: Endrin Ketone #2





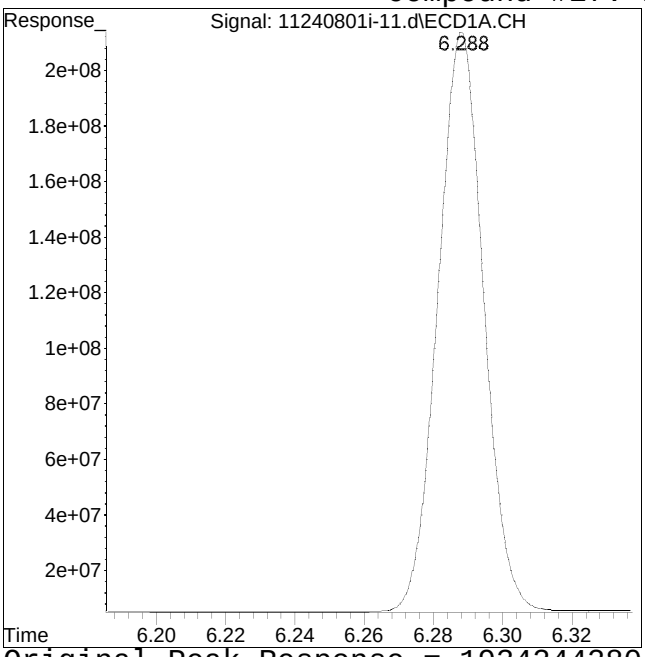
Original Peak Response = 1773105858 Manual Peak Response = 1757499309 M3

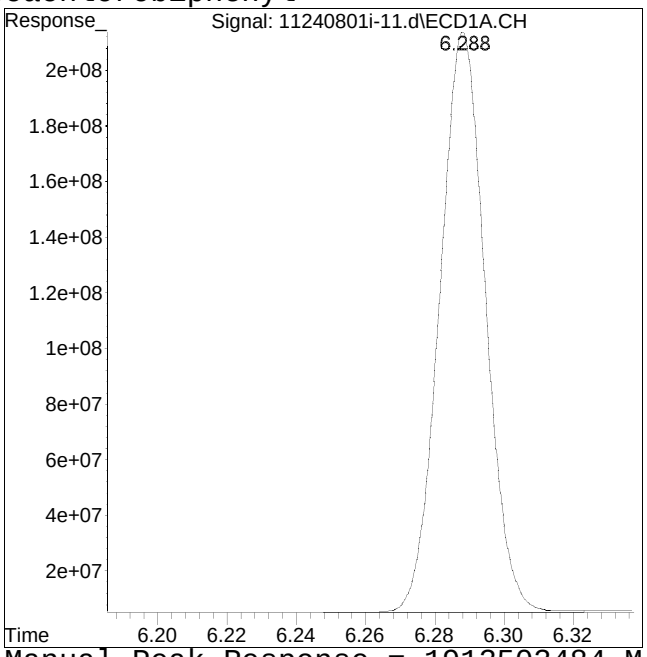
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #27: Decachlorobiphenyl





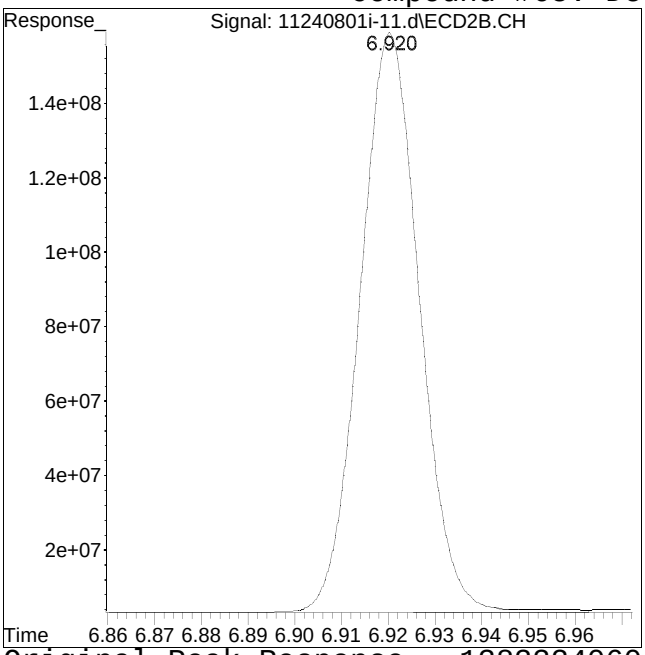
Original Peak Response = 1934244280 Manual Peak Response = 1913503484 M4
M4 = Poor automated baseline construction.

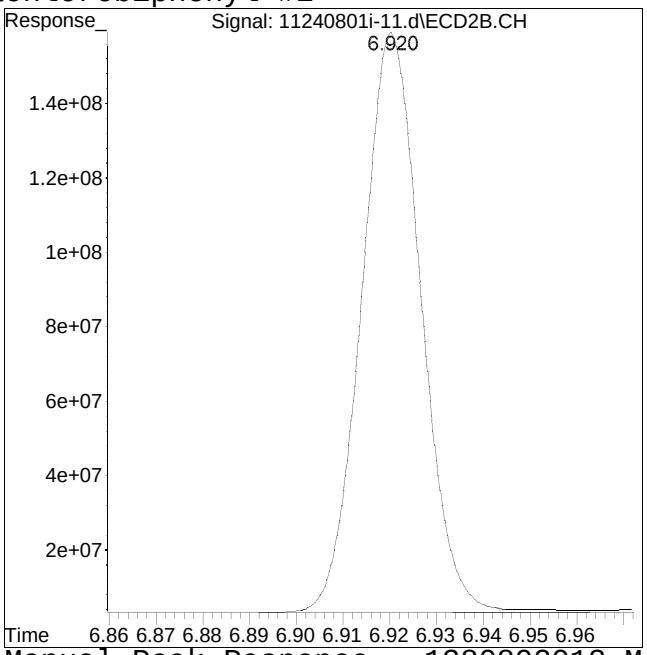
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-11.d
Date Inj'd : 8/1/2024 20:12
Sample : il10pest,42e,,pp 11679 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:29 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1383324060 Manual Peak Response = 1380892913 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.310	1.386	219.1E6	172.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.653	1.859	3436.3E6	2866.4E6	375.795M3	383.994
	Spiked Amount 50.000	Range 30 - 150		Recovery =		751.59%#	767.99%#
27) s	Decachlorobi	6.288	6.919	3542.0E6	2565.1E6	389.672M4	396.514M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		779.34%#	793.03%#
	Target Compounds						
3) t	Hexachlorobe	1.866	2.179	4393.8E6	3054.6E6	374.440M3	386.397M4
4) t	alpha-BHC	1.965	2.272	5474.0E6	4748.1E6	387.113M3	397.820M3
5) t	gamma-BHC (l	2.167	2.558	5015.2E6	4254.3E6	385.346M4	395.569
6) t	beta-BHC	2.222	2.623	2035.1E6	1695.7E6	381.357M3	384.044
7) t	delta-BHC	2.351	2.890	5109.5E6	4368.4E6	387.060M4	397.603M4
8) t	Heptachlor	2.514	2.953	4267.4E6	3941.6E6	357.934M4	366.974M4
9) t	Aldrin	2.757	3.272	4276.8E6	3818.0E6	371.928M4	378.594
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	3.302	3.885	3795.3E6	3457.2E6	359.403M3	369.359M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	t	gamma-Chlord	3.426	4.105	3704.6E6	3328.5E6	381.821M4	385.505M4
14)	t	alpha-Chlord	3.560	4.275	4129.5E6	3639.2E6	377.801M3	381.858M4
15)	t	4,4'-DDE	3.658	4.474	4233.9E6	3665.1E6	381.347M4	383.165M3
16)	t	Endosulfan I	3.696	4.336	3638.6E6	3224.0E6	363.740M3	369.311M4
17)	t	Dieldrin	3.956	4.628	3938.0E6	3471.7E6	374.014M4	378.648M4
18)	t	Endrin	4.211	4.926	3882.2E6	3492.7E6	367.059M3	376.416M4
19)	t	4,4'-DDD	4.323	5.050	3366.6E6	3005.8E6	387.600M4	394.381M4
20)	t	Endosulfan I	4.452	5.126	3381.2E6	2907.3E6	357.803M4	364.277M4
21)	t	4,4'-DDT	4.617	5.327	3755.2E6	3373.8E6	384.027M4	387.821M3
22)	t	Endrin Aldeh	4.869	5.422	2950.3E6	2501.6E6	376.997M4	381.397M3
23)	t	Methoxychlor	5.105	5.891	1699.3E6	1603.4E6	350.495M4	373.779M3
24)	t	Mirex	5.160	6.024	2881.7E6	2395.8E6	373.166M3	379.221M4
25)	t	Endosulfan S	5.261	5.650	3233.7E6	2911.3E6	369.599M3	378.677M3
26)	t	Endrin Keton	5.487	6.061	3805.9E6	3138.1E6	363.553M4	377.488M3
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

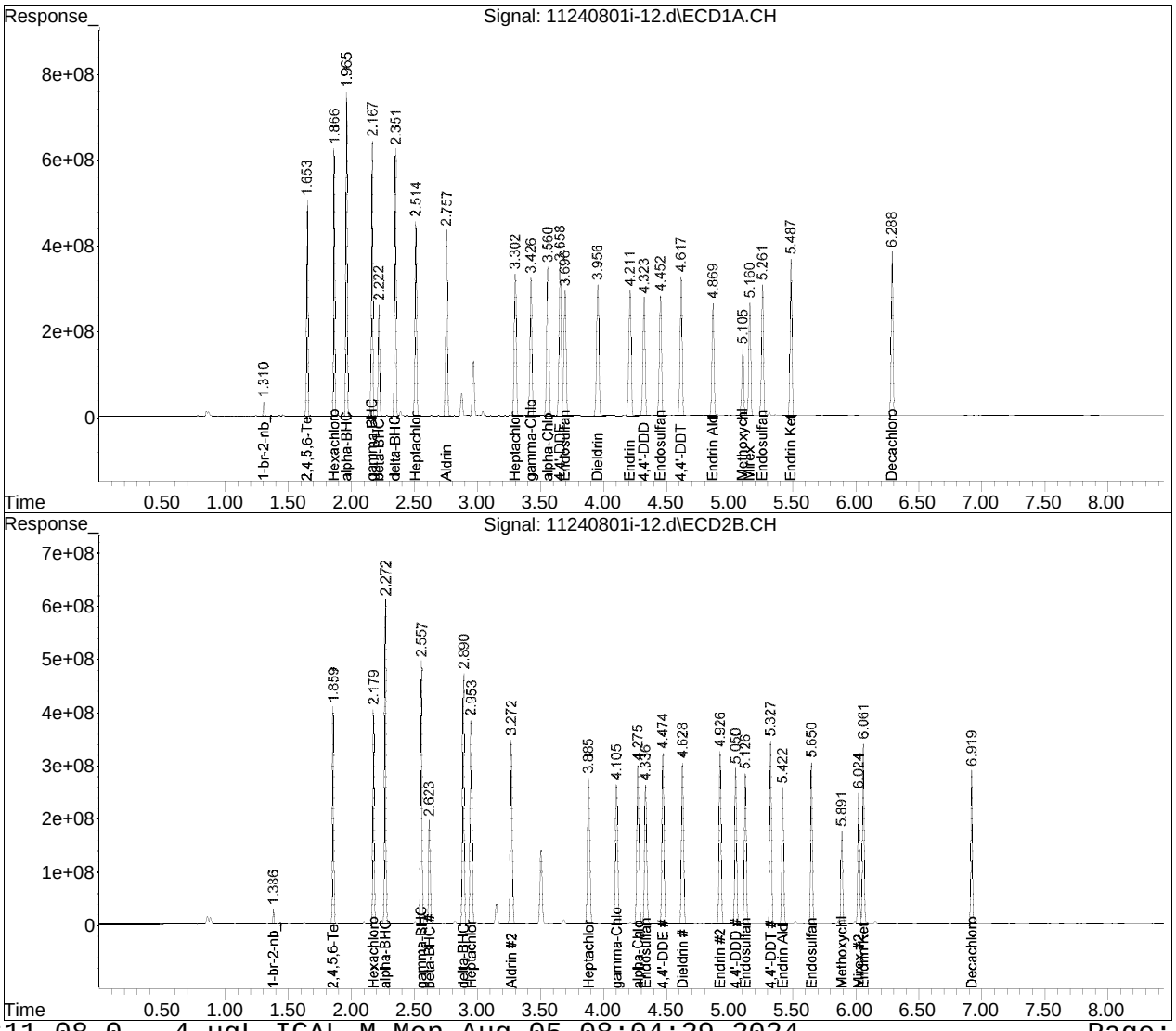
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:25
Operator : PEST11:ejl
Sample : il11pest,42e,,pp 11678 L0.4
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 09:58:56 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 09:38:05 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

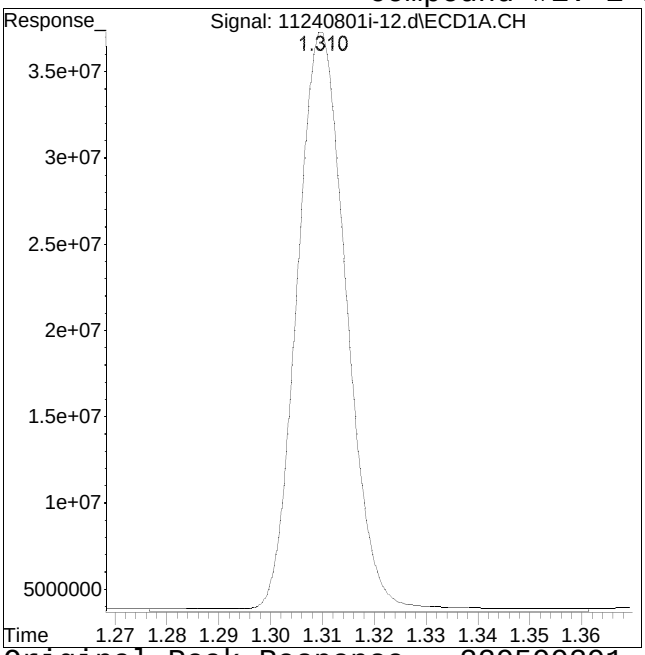
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



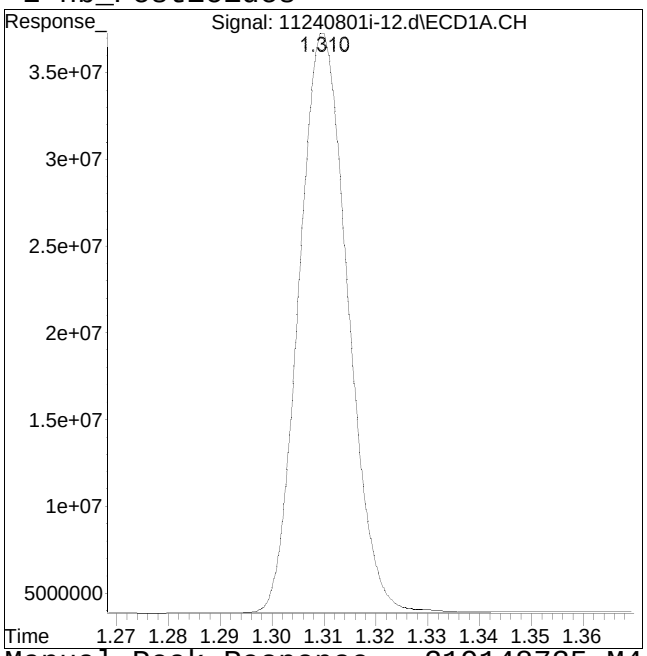
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 229599391



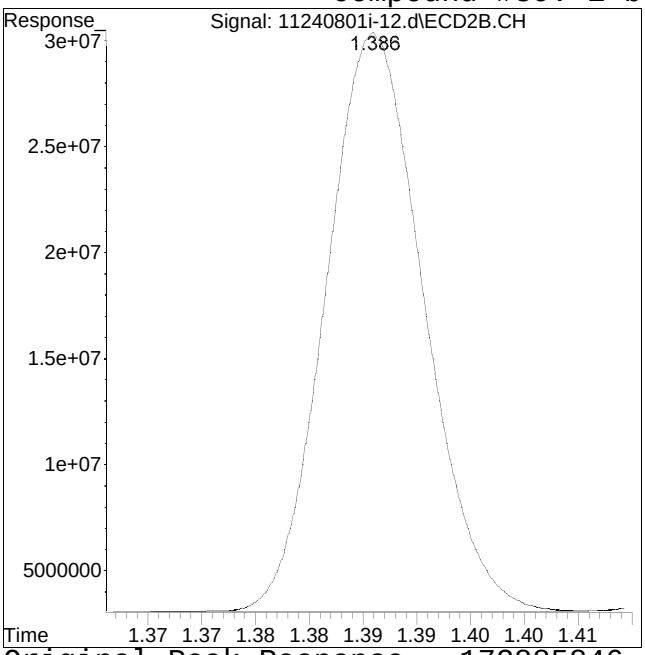
Manual Peak Response = 219148735 M4

M4 = Poor automated baseline construction.

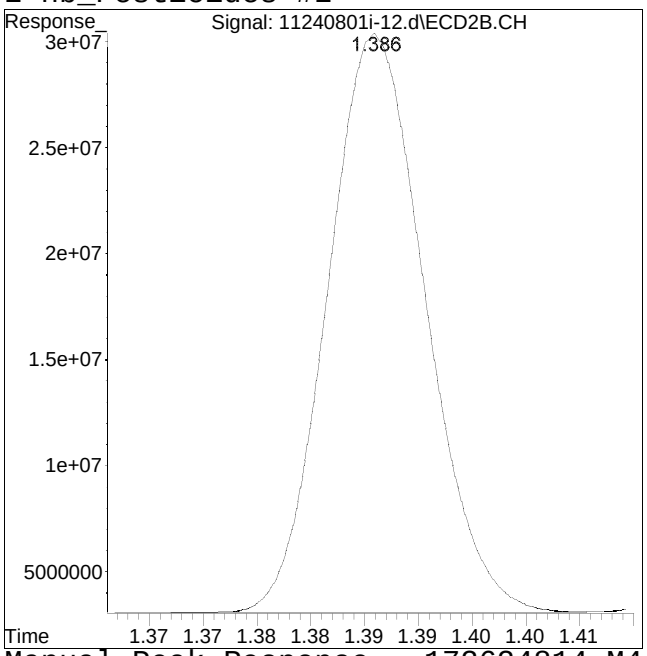
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 172885846



Manual Peak Response = 172624814 M4

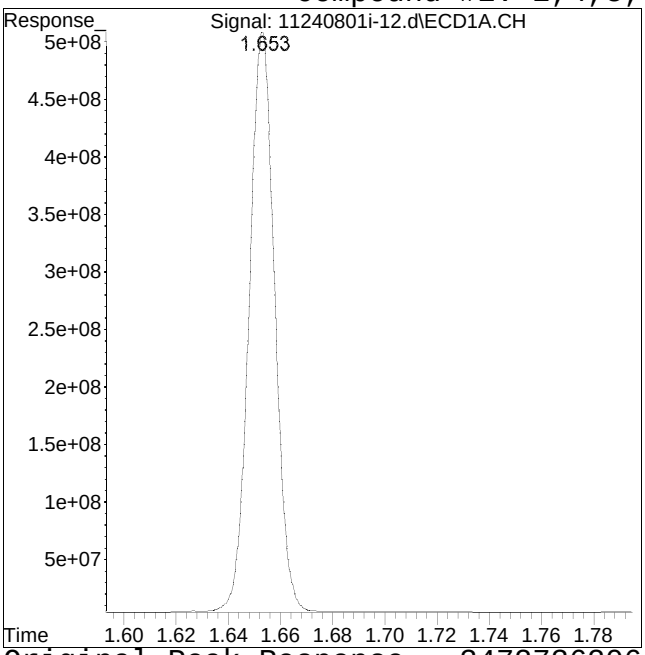
M4 = Poor automated baseline construction.

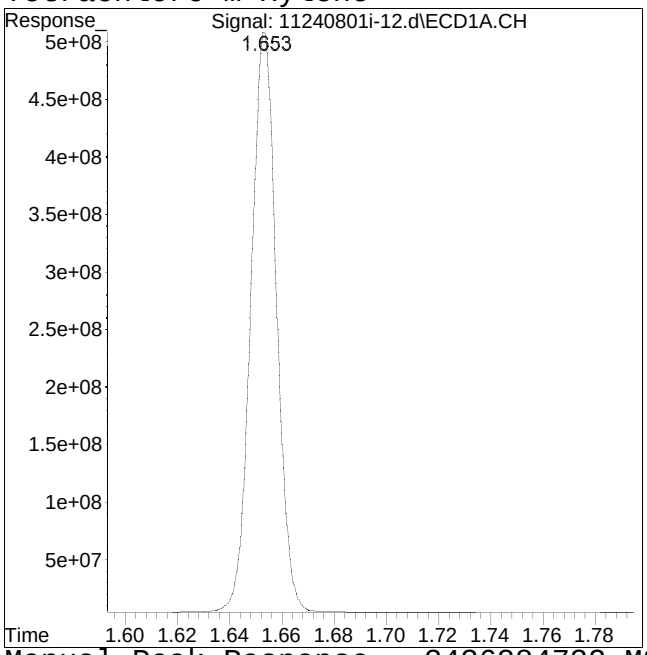
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





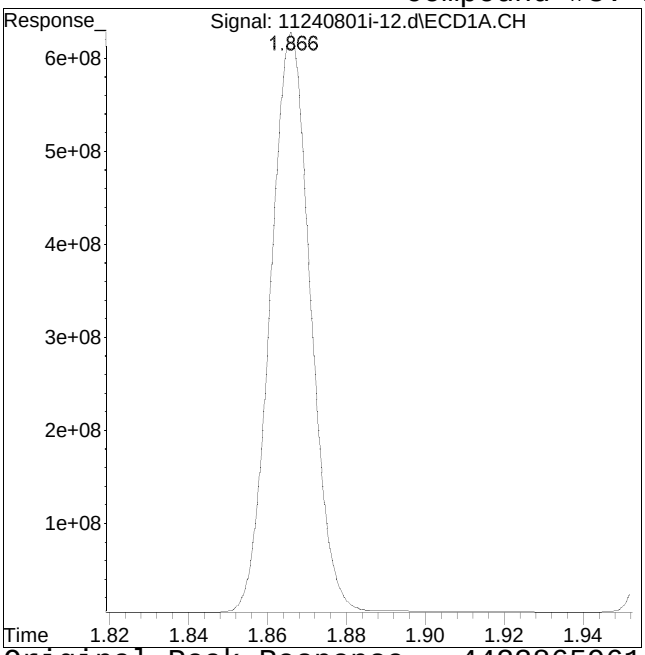
Original Peak Response = 3472736206 Manual Peak Response = 3436284732 M3

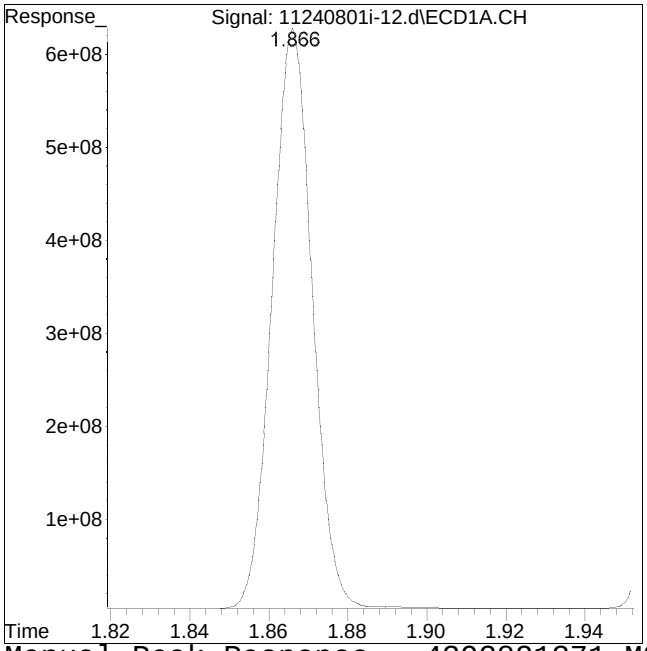
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #3: Hexachlorobenzene



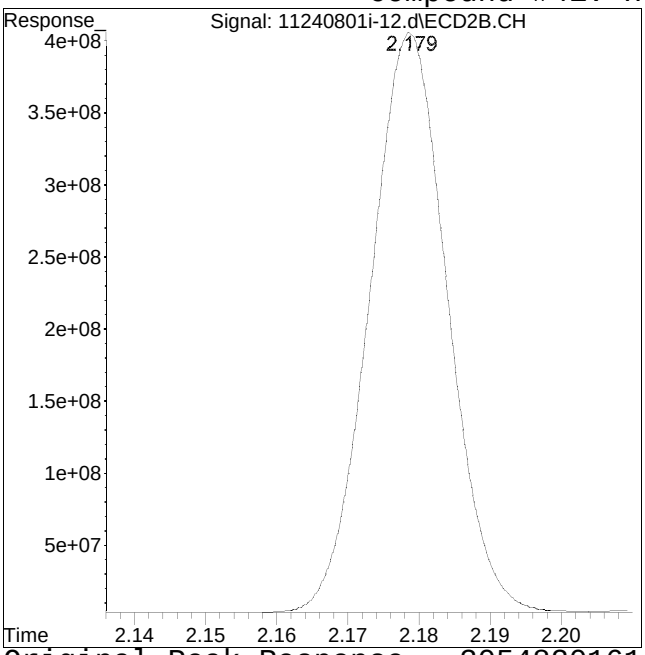


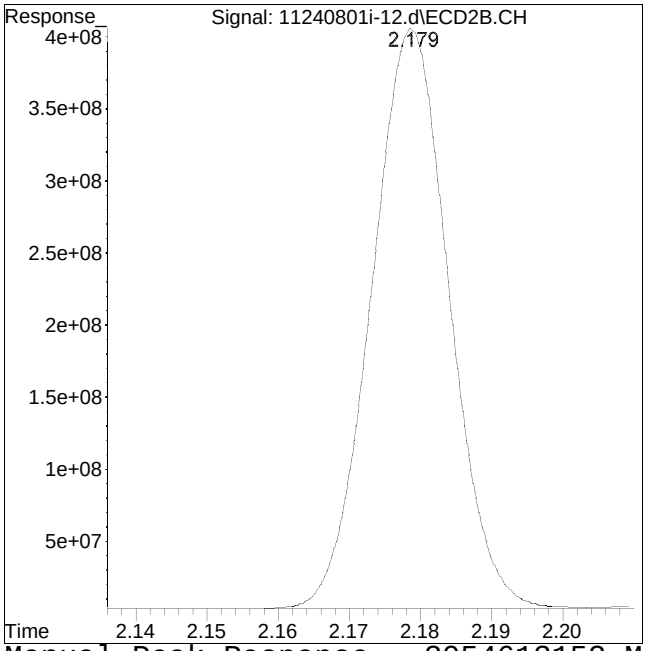
Original Peak Response = 4423865961 Manual Peak Response = 4393821371 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #41: Hexachlorobenzene #2





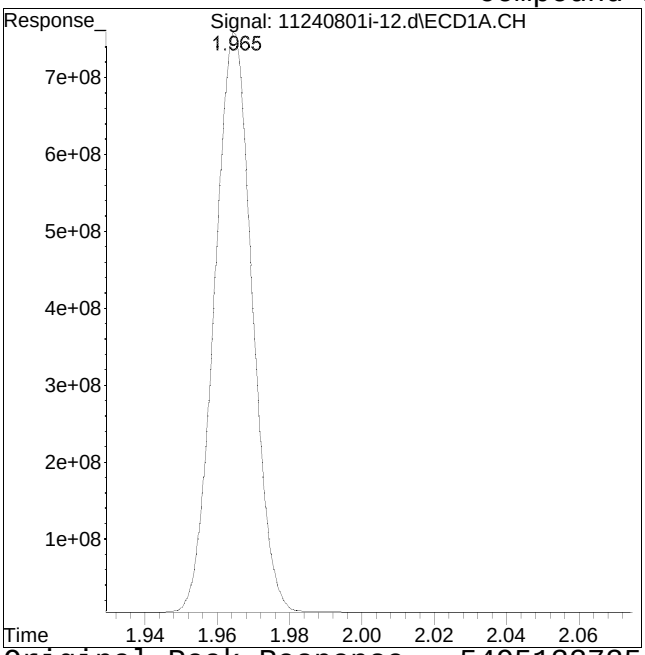
Original Peak Response = 3054820161 Manual Peak Response = 3054613153 M4
M4 = Poor automated baseline construction.

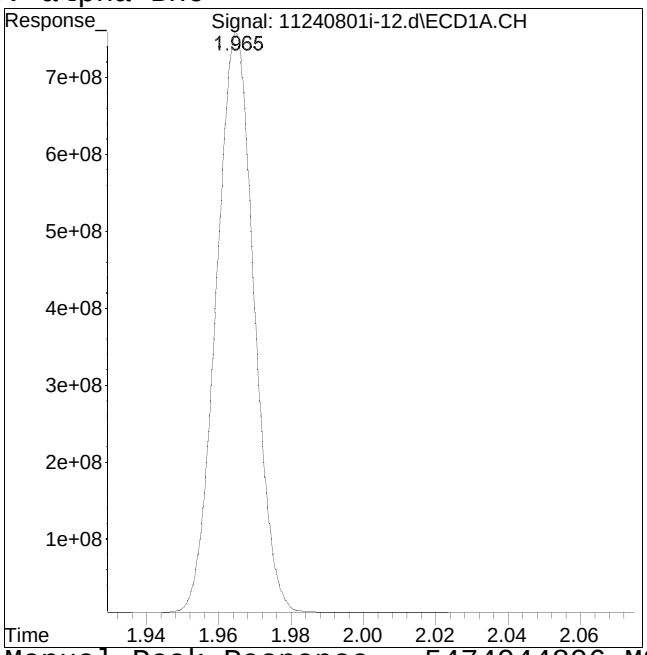
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #4: alpha-BHC



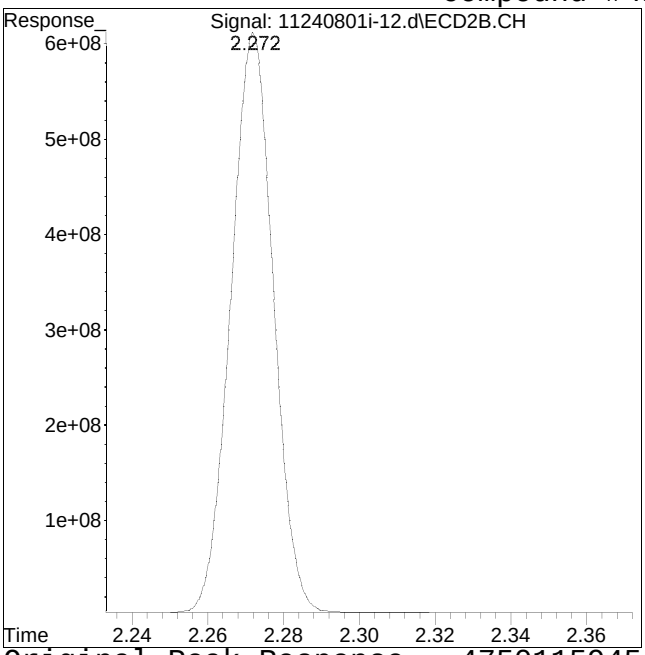


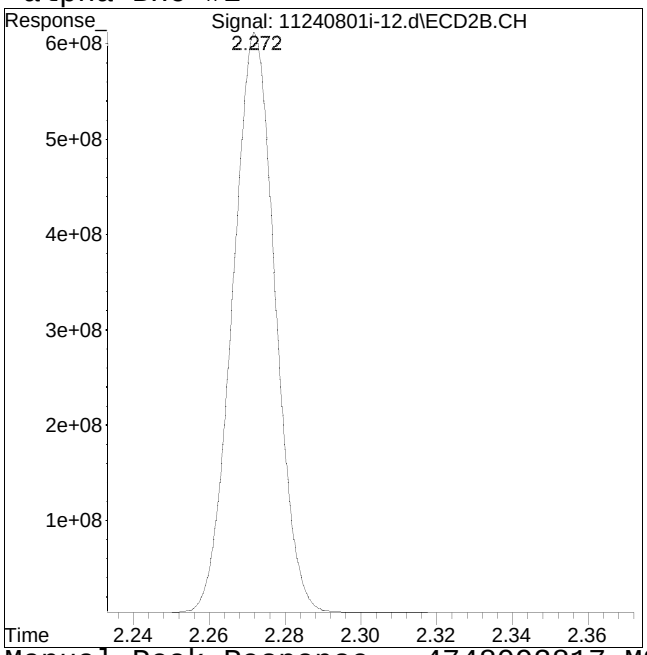
Original Peak Response = 5495133735 Manual Peak Response = 5474044806 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #42: alpha-BHC #2





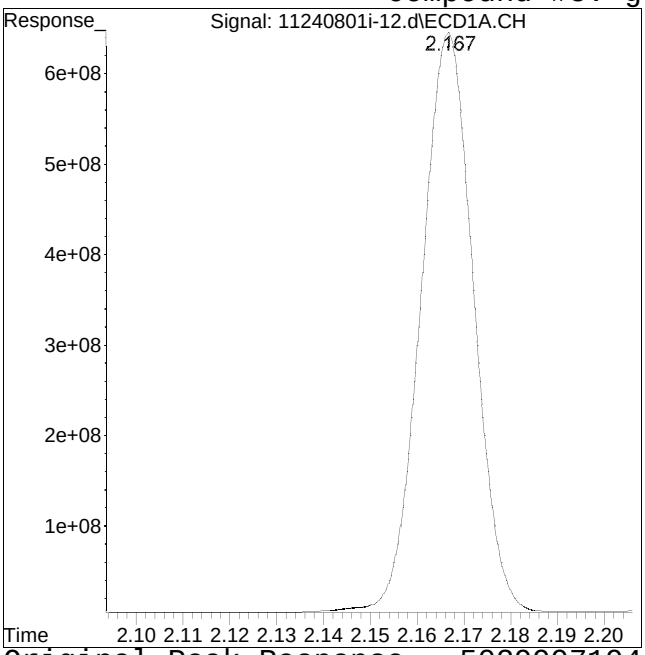
Original Peak Response = 4750115945 Manual Peak Response = 4748093817 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

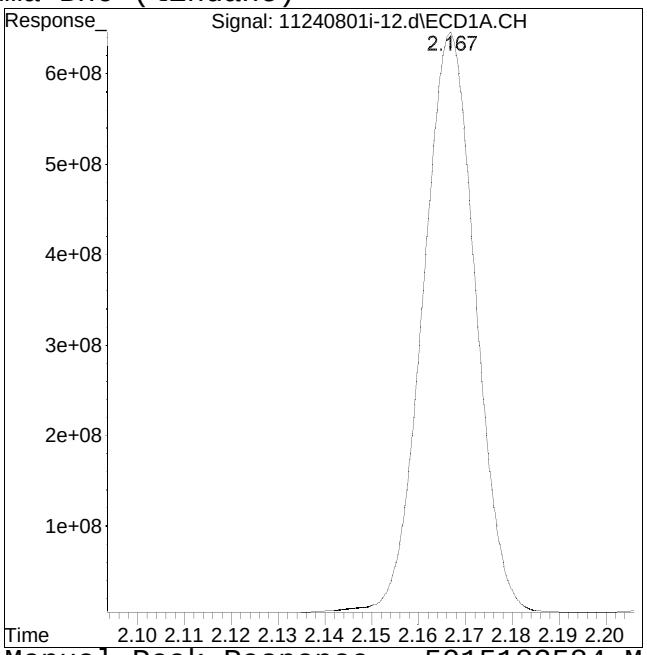
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #5: gamma-BHC (lindane)



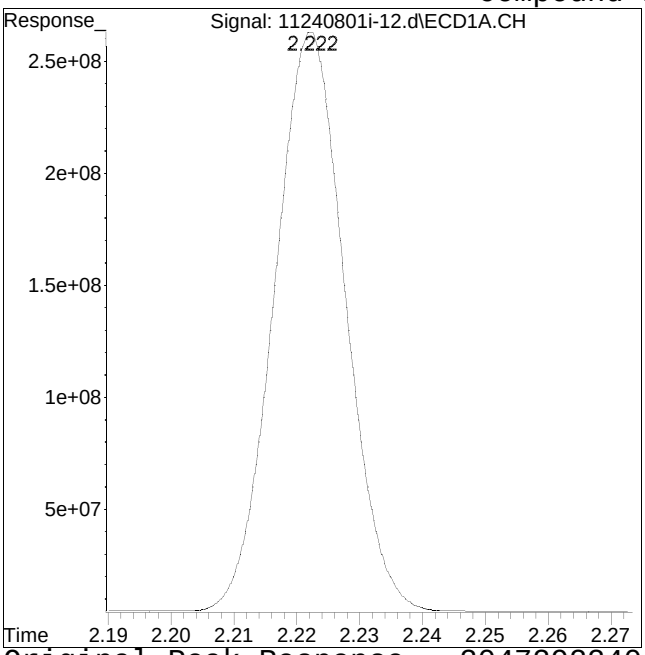


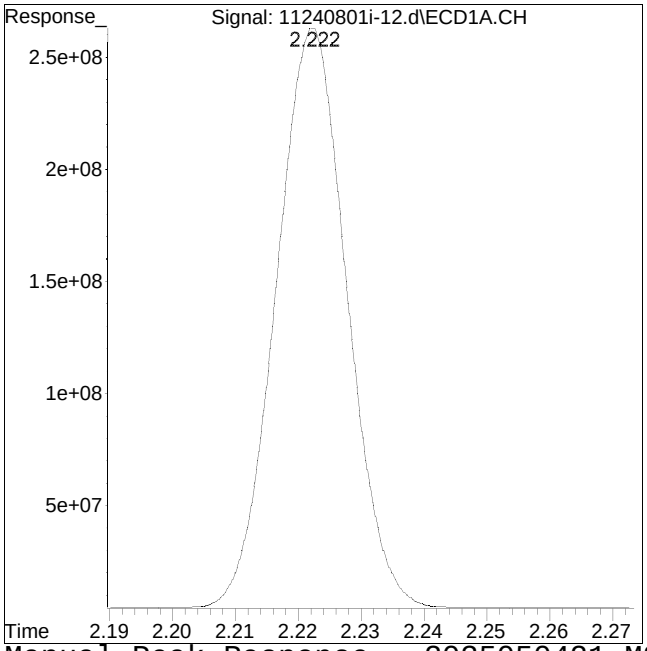
Original Peak Response = 5029997194 Manual Peak Response = 5015182584 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #6: beta-BHC



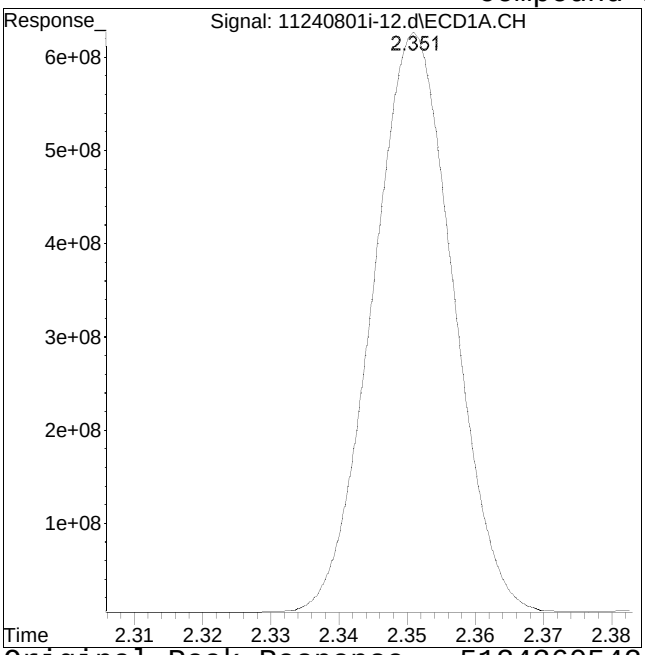


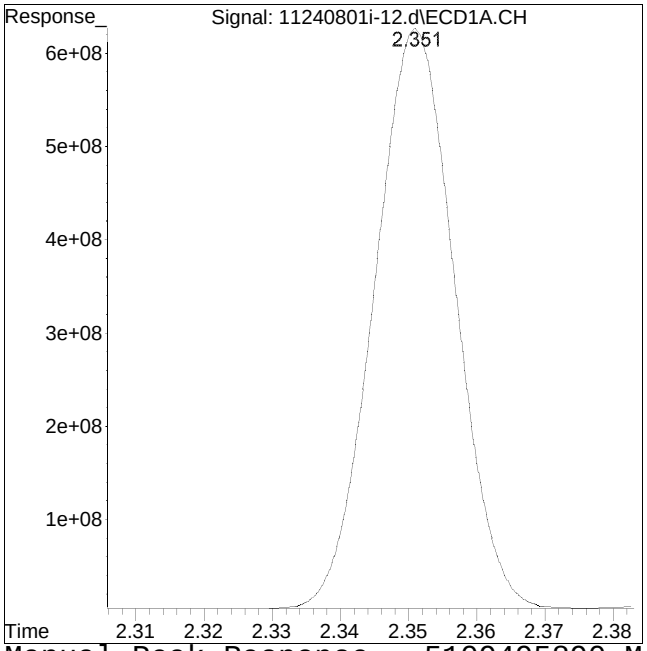
Original Peak Response = 2047292240 Manual Peak Response = 2035050421 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #7: delta-BHC





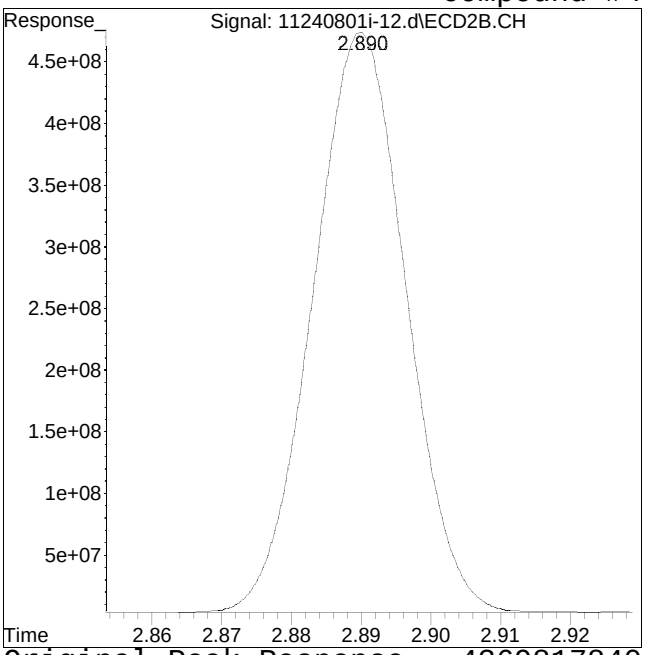
Original Peak Response = 5124360542 Manual Peak Response = 5109495890 M4
M4 = Poor automated baseline construction.

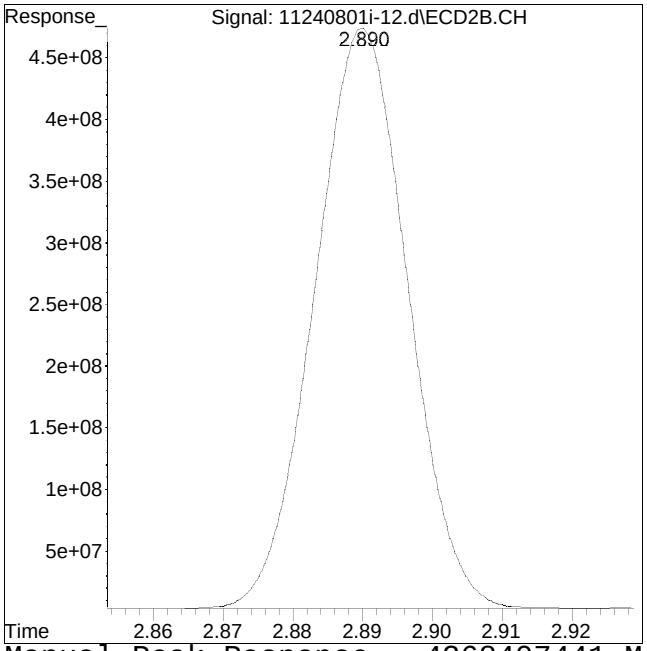
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #45: delta-BHC #2





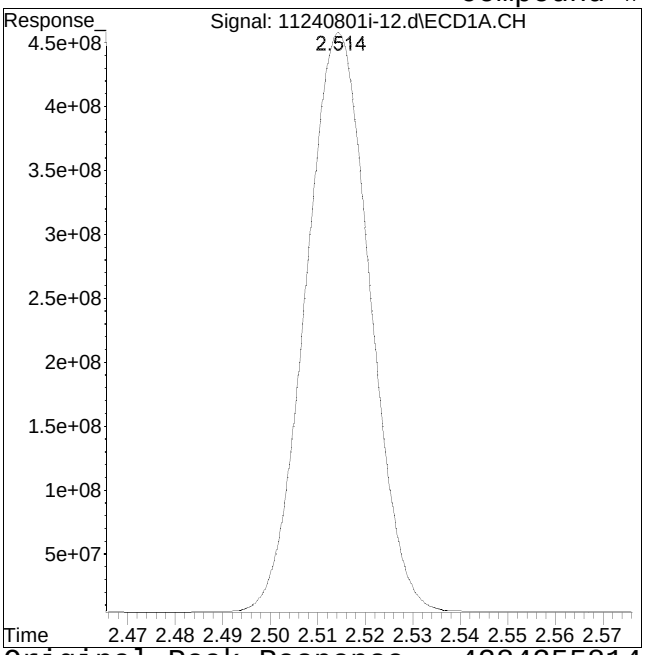
Original Peak Response = 4369817840 Manual Peak Response = 4368407441 M4
M4 = Poor automated baseline construction.

Manual Integration Report

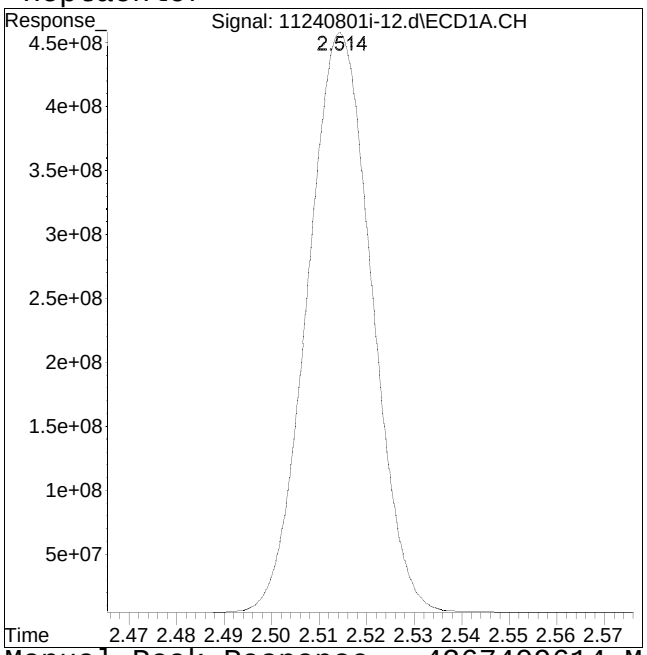
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #8: Heptachlor



Original Peak Response = 4284355814



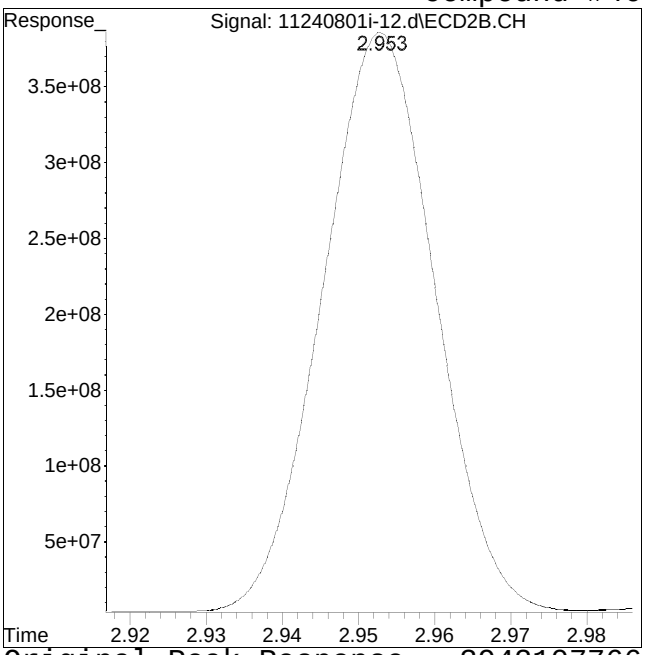
Manual Peak Response = 4267409614 M4

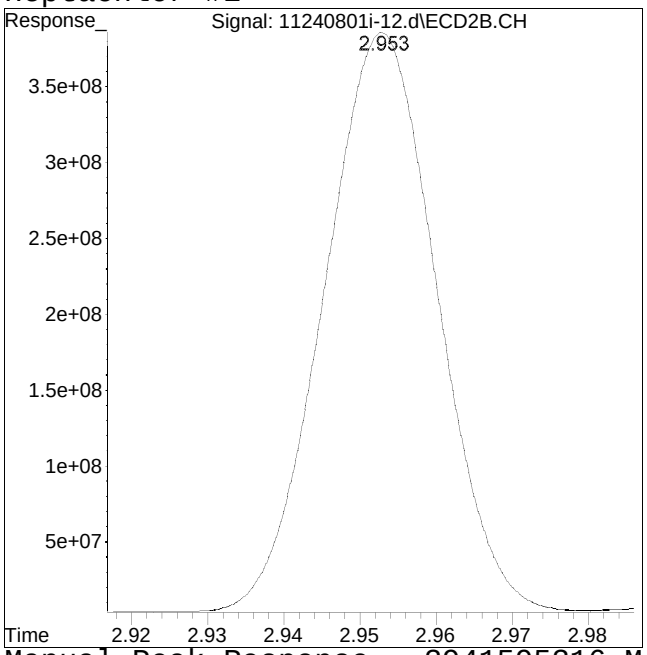
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #46: Heptachlor #2



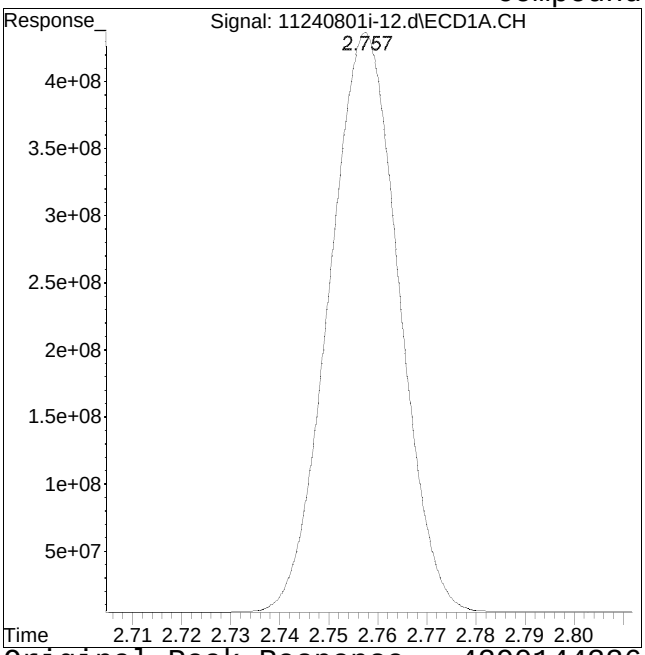


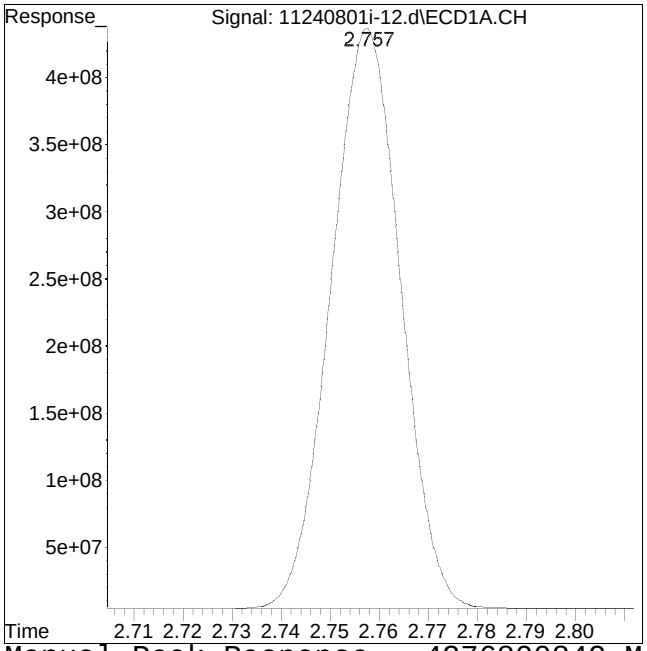
Original Peak Response = 3942107766 Manual Peak Response = 3941595316 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #9: Aldrin



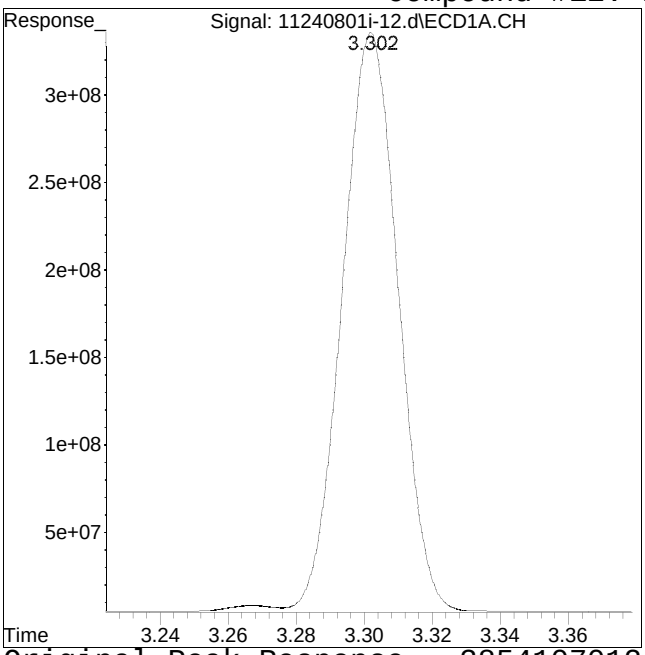


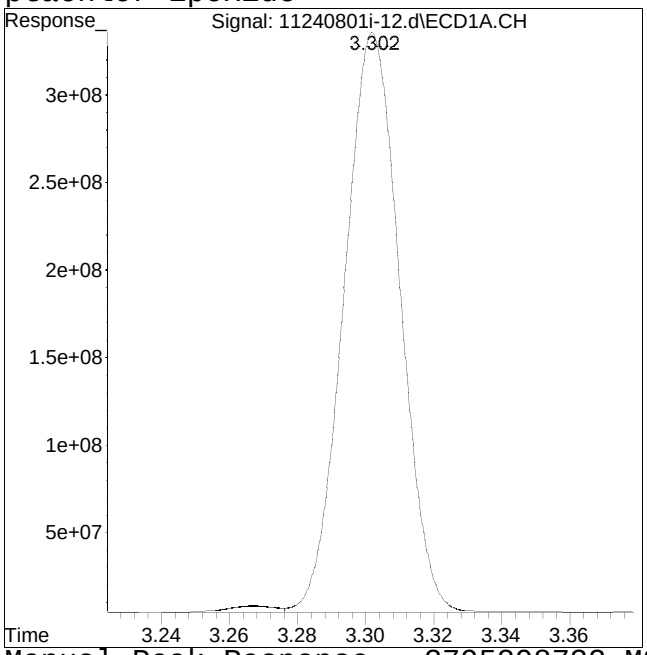
Original Peak Response = 4290144336 Manual Peak Response = 4276800842 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #12: Heptachlor Epoxide



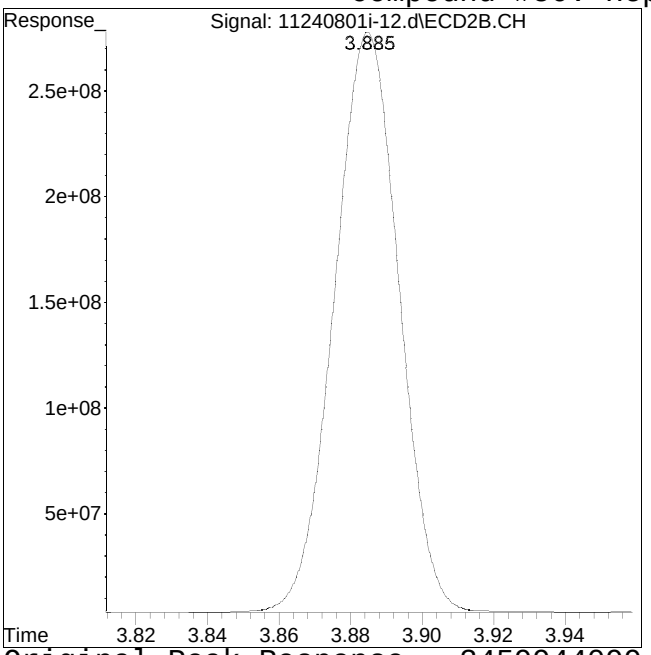


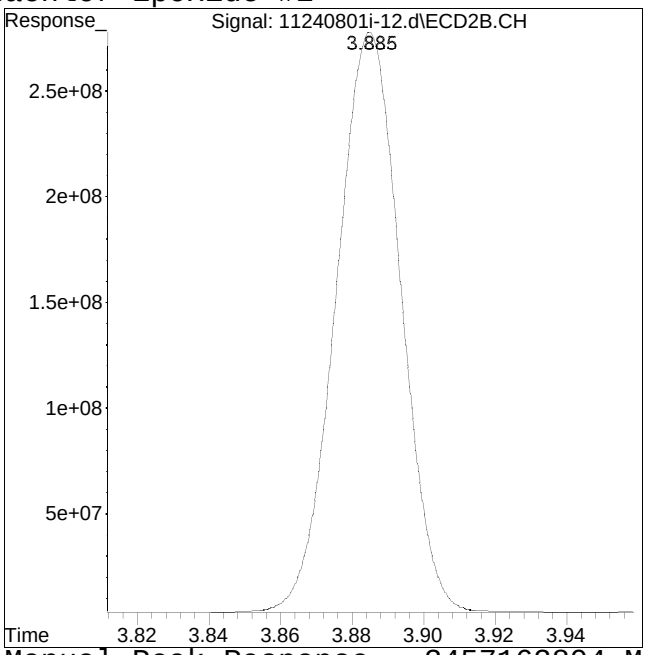
Original Peak Response = 3854107012 Manual Peak Response = 3795298732 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #50: Heptachlor Epoxide #2





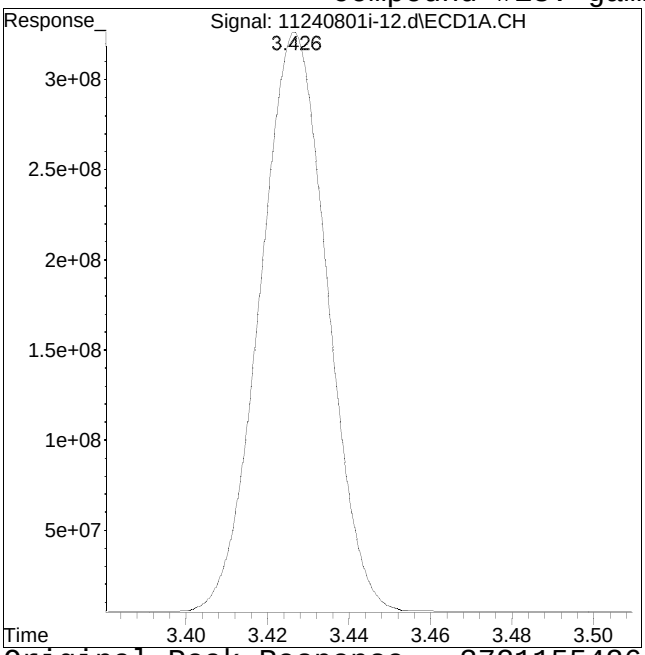
Original Peak Response = 3459944099 Manual Peak Response = 3457163804 M4
M4 = Poor automated baseline construction.

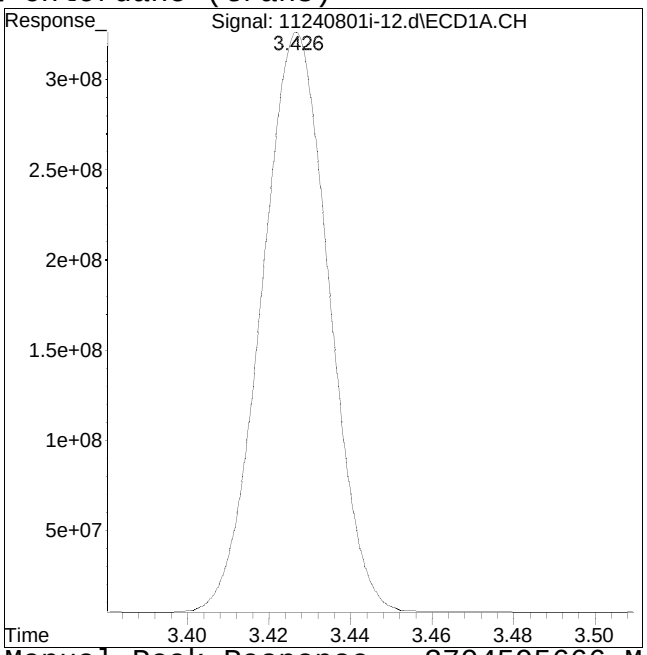
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #13: gamma-Chlordane (trans)



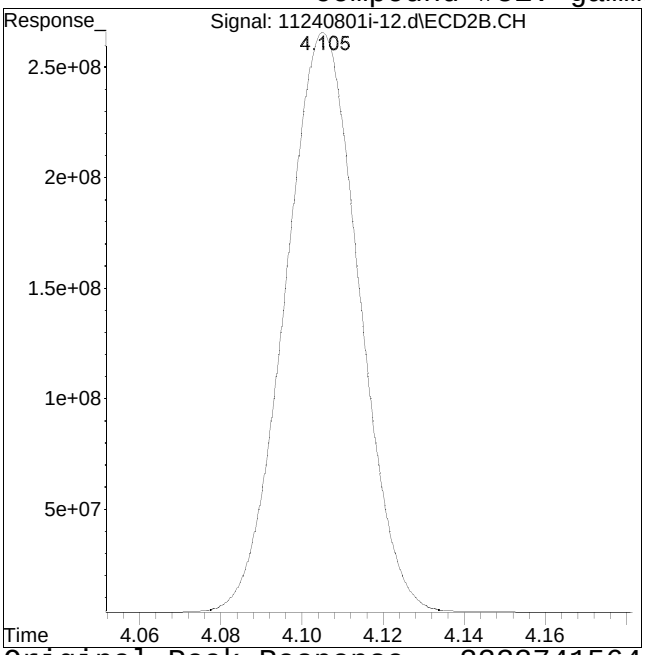


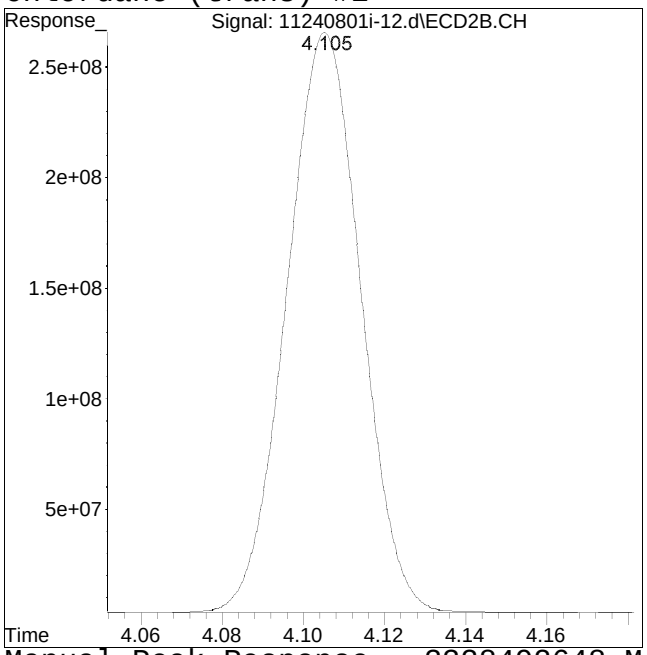
Original Peak Response = 3721155426 Manual Peak Response = 3704595666 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #51: gamma-Chlordane (trans) #2



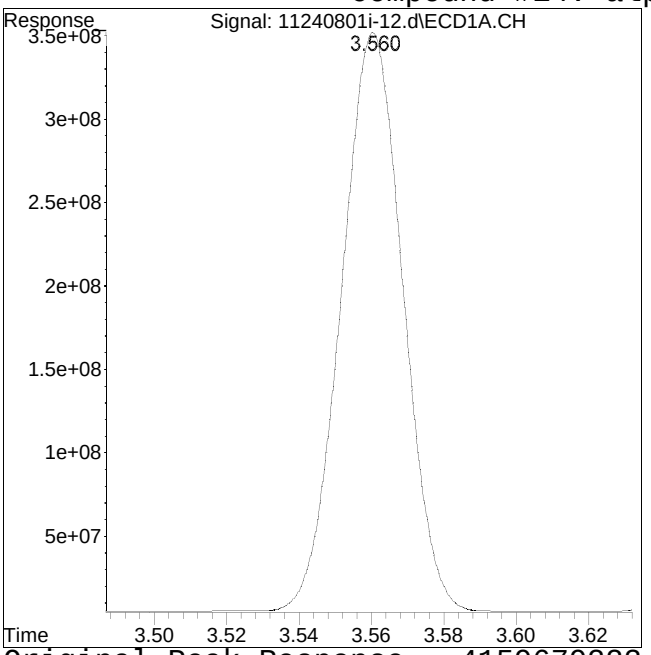


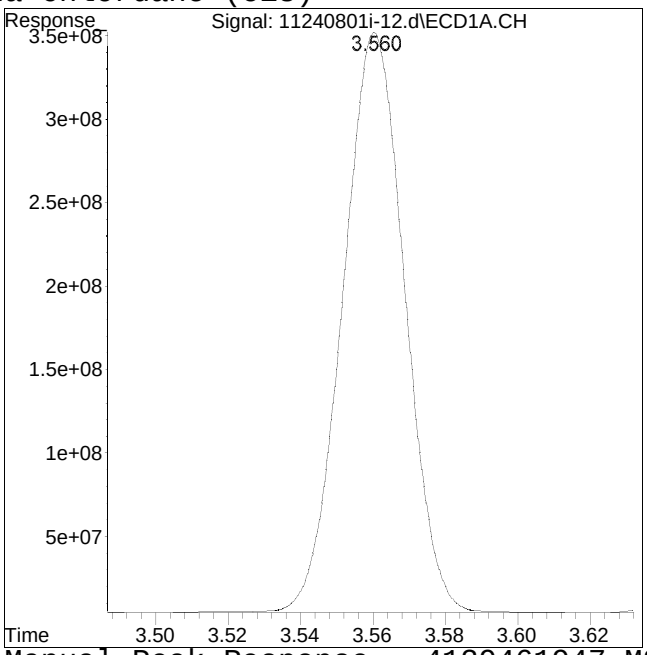
Original Peak Response = 3333741564 Manual Peak Response = 3328492648 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #14: alpha-Chlordane (cis)





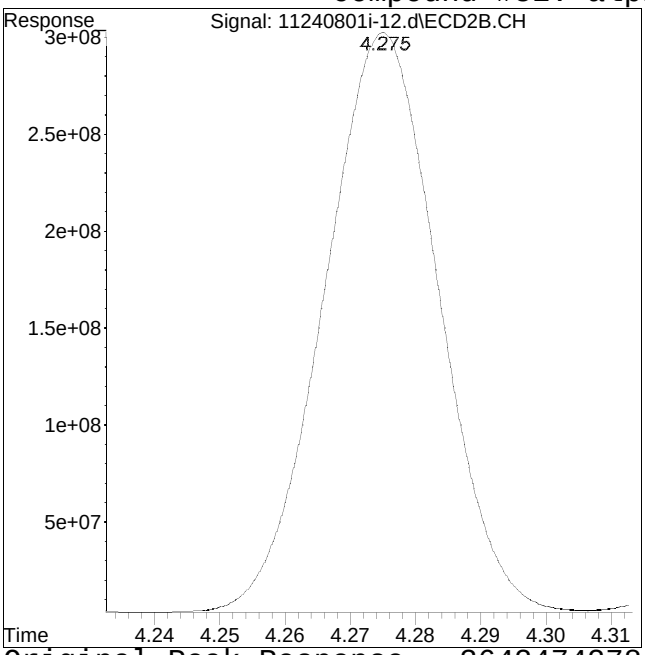
Original Peak Response = 4159679223 Manual Peak Response = 4129461947 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

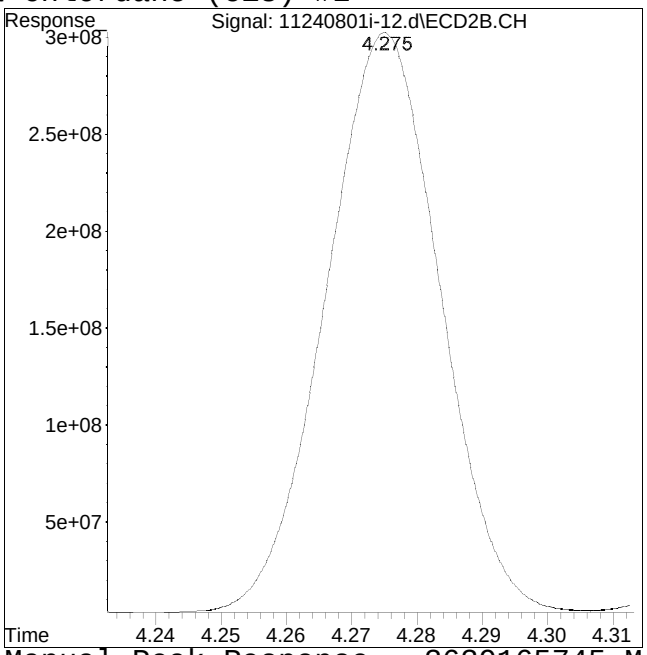
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #52: alpha-Chlordane (cis) #2





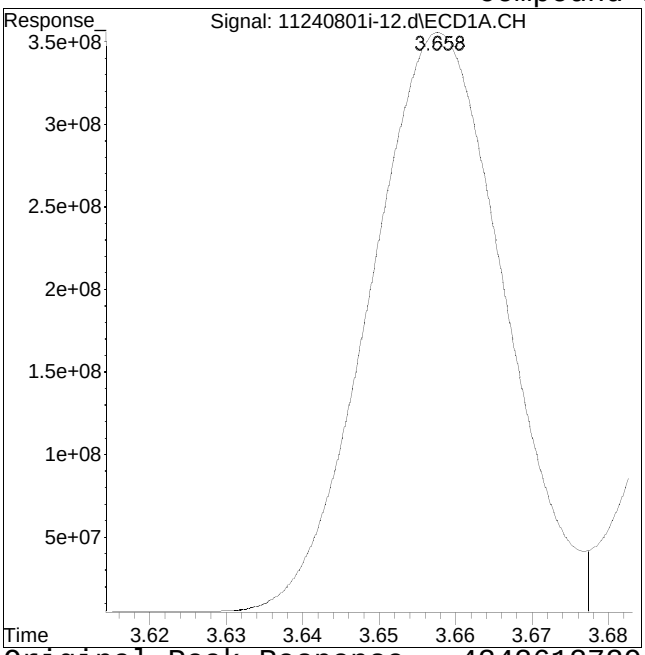
Original Peak Response = 3642474278 Manual Peak Response = 3639165745 M4
M4 = Poor automated baseline construction.

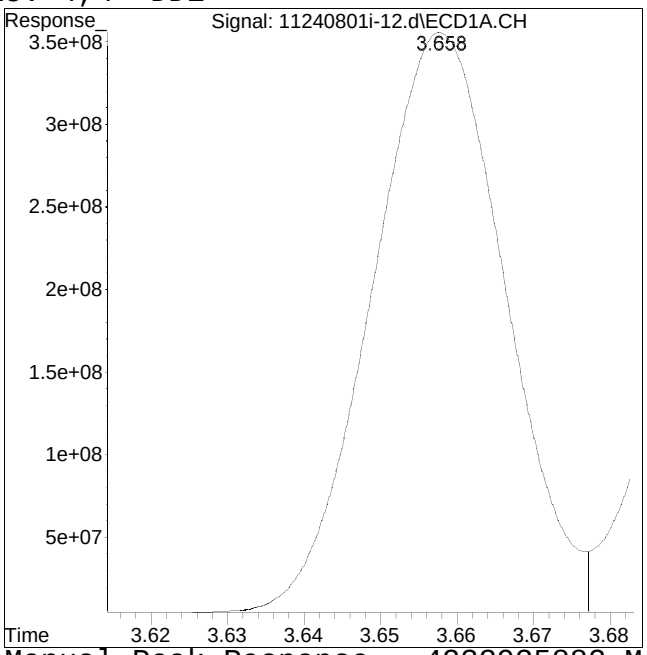
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #15: 4,4'-DDE





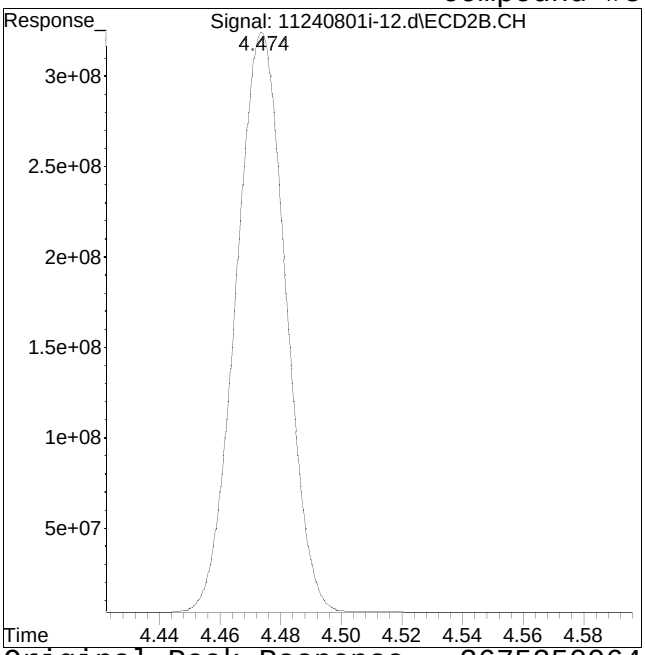
Original Peak Response = 4242612729 Manual Peak Response = 4233935882 M4
M4 = Poor automated baseline construction.

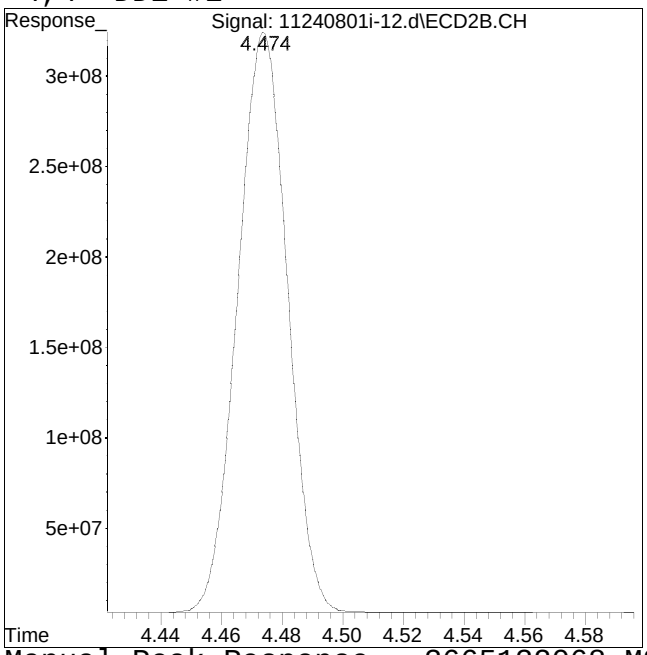
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #53: 4,4'-DDE #2





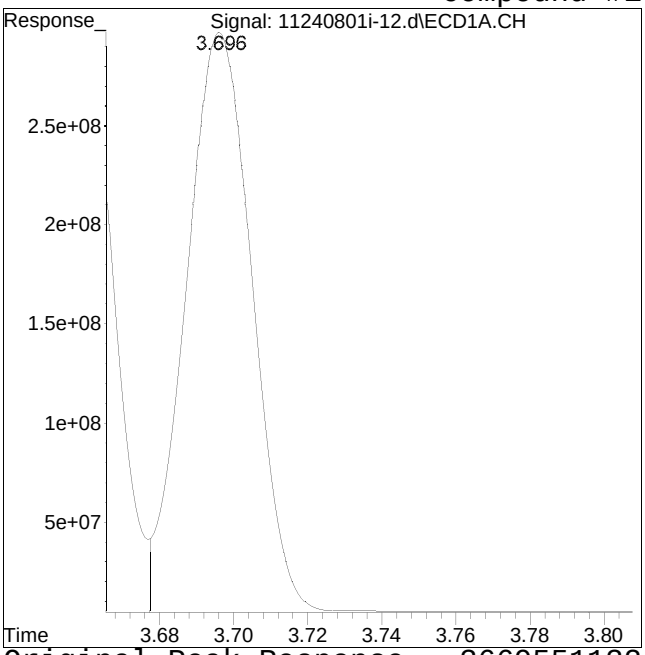
Original Peak Response = 3675250064 Manual Peak Response = 3665132068 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

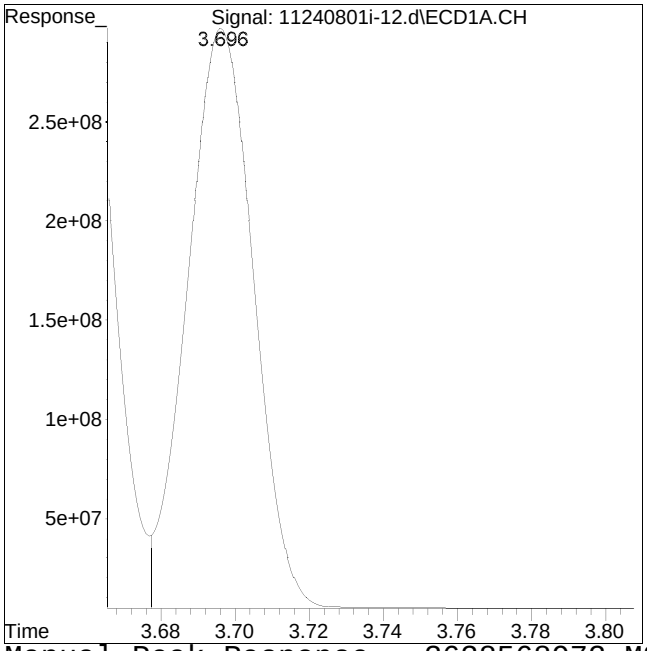
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #16: Endosulfan I



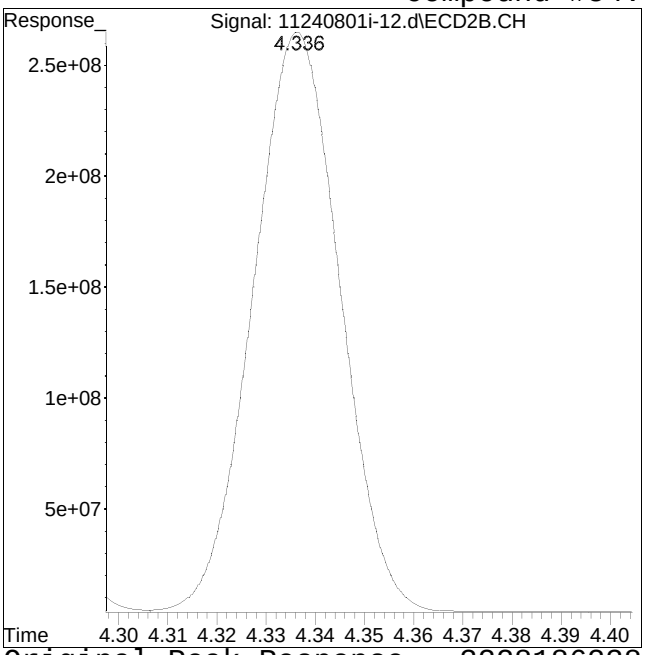


Original Peak Response = 3669551132 Manual Peak Response = 3638568973 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

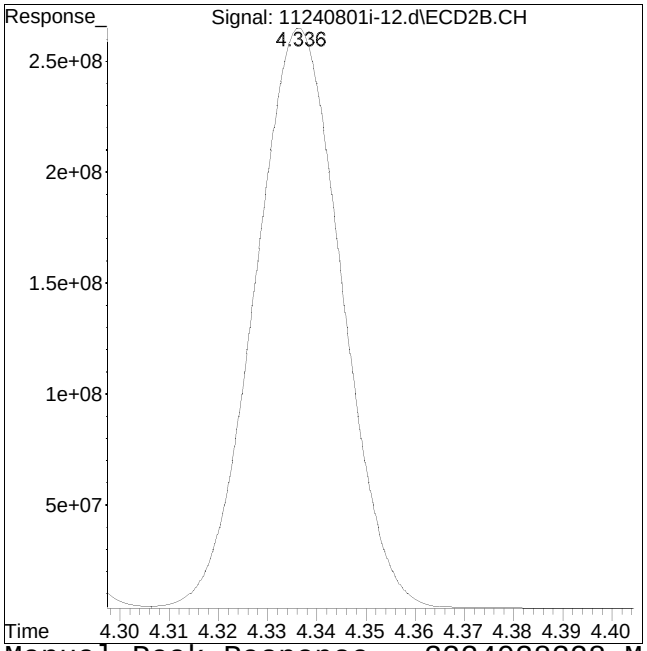
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #54: Endosulfan I #2



Original Peak Response = 3228186238



Manual Peak Response = 3224038328 M4

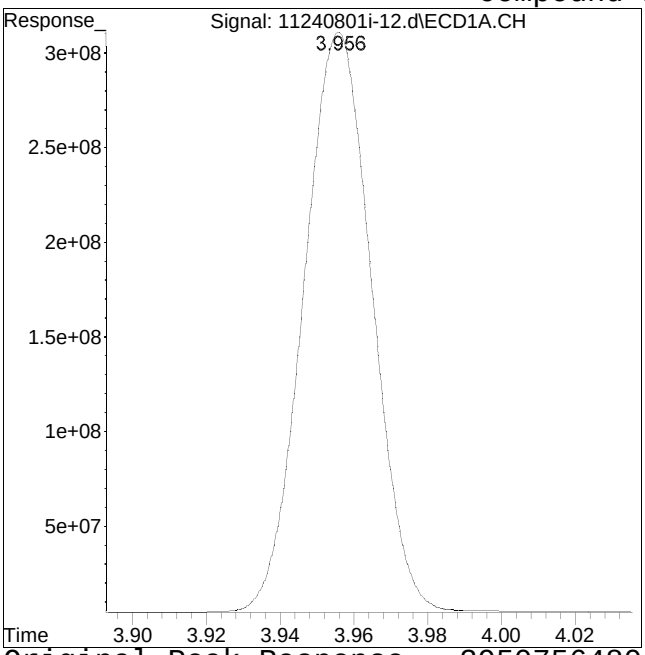
M4 = Poor automated baseline construction.

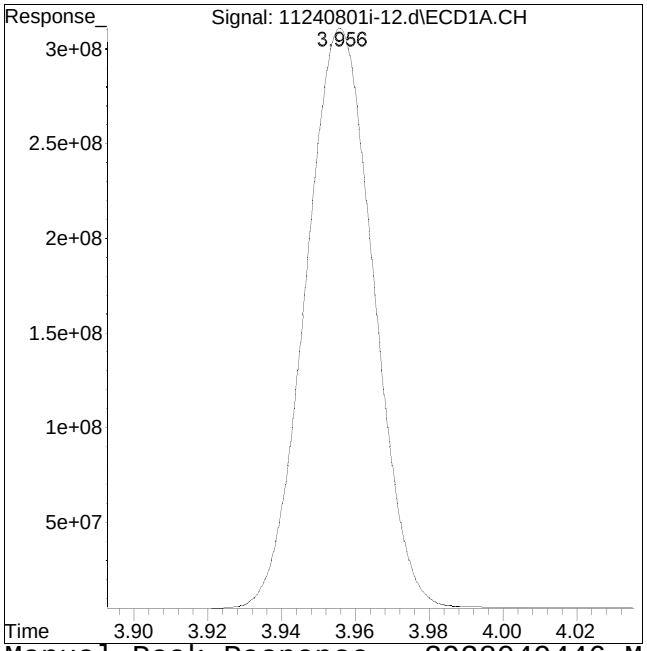
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #17: Dieldrin





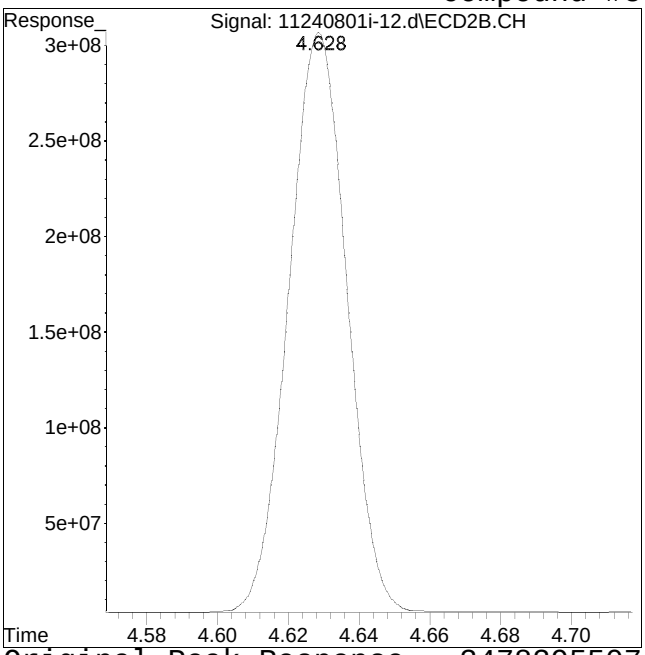
Original Peak Response = 3950756480 Manual Peak Response = 3938049446 M4
M4 = Poor automated baseline construction.

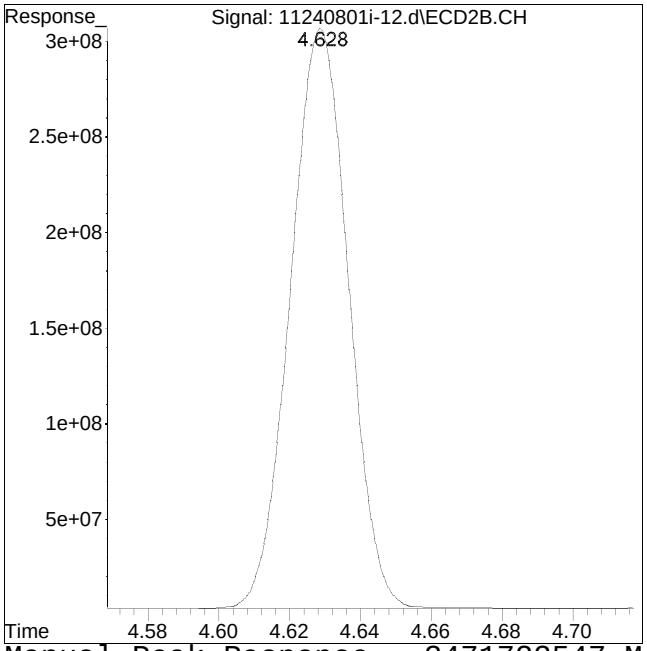
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #55: Dieldrin #2



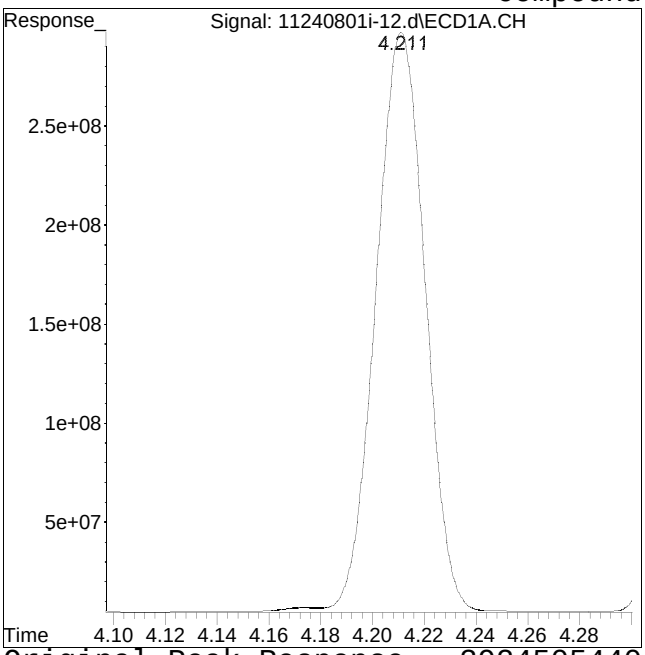


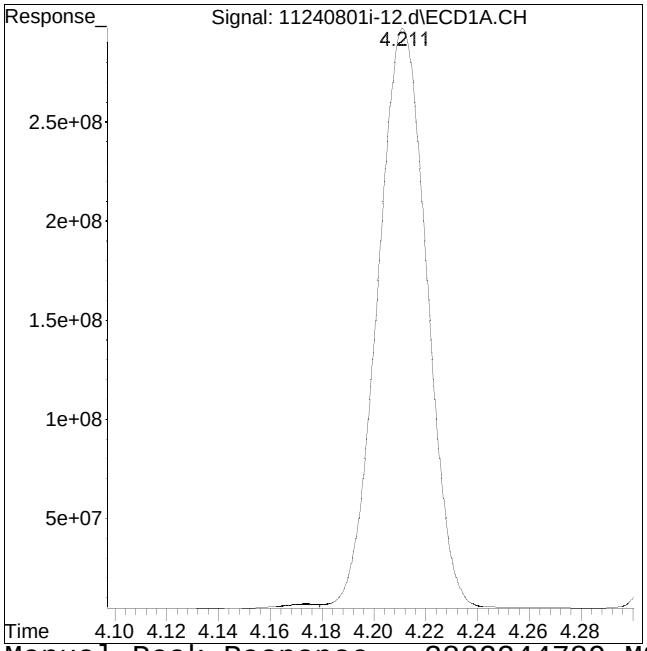
Original Peak Response = 3478395507 Manual Peak Response = 3471722547 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #18: Endrin





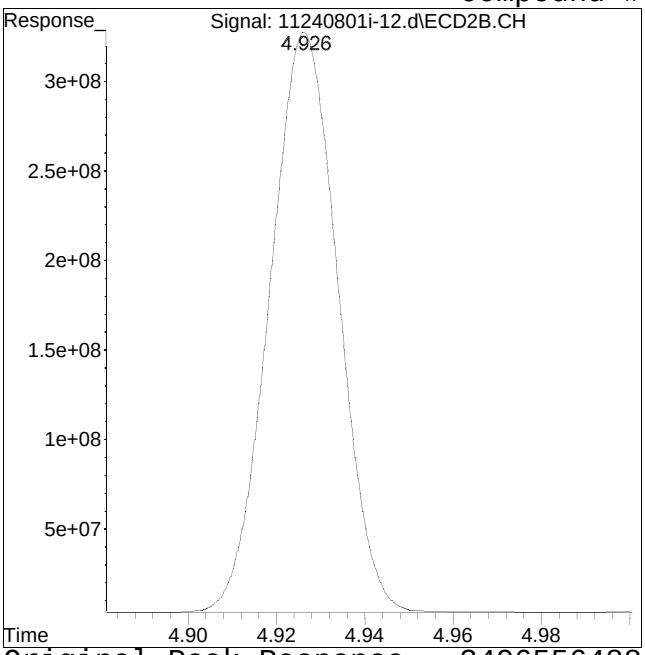
Original Peak Response = 3924505440 Manual Peak Response = 3882244789 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

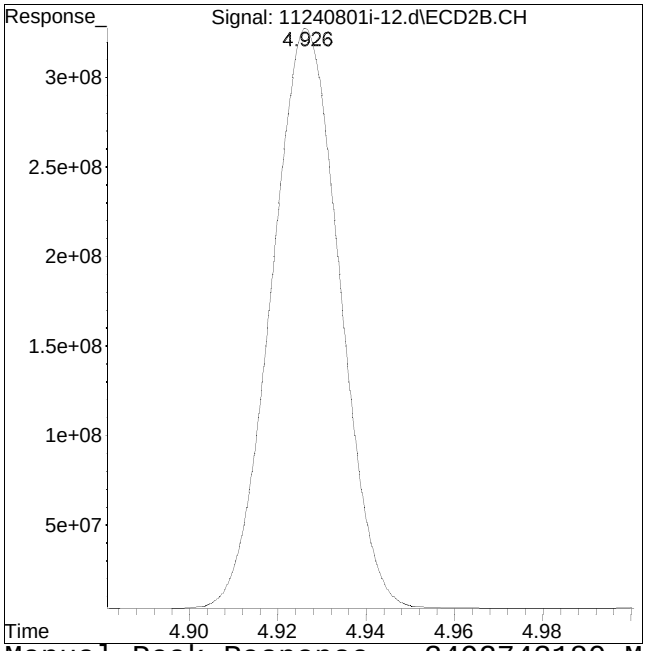
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #56: Endrin #2





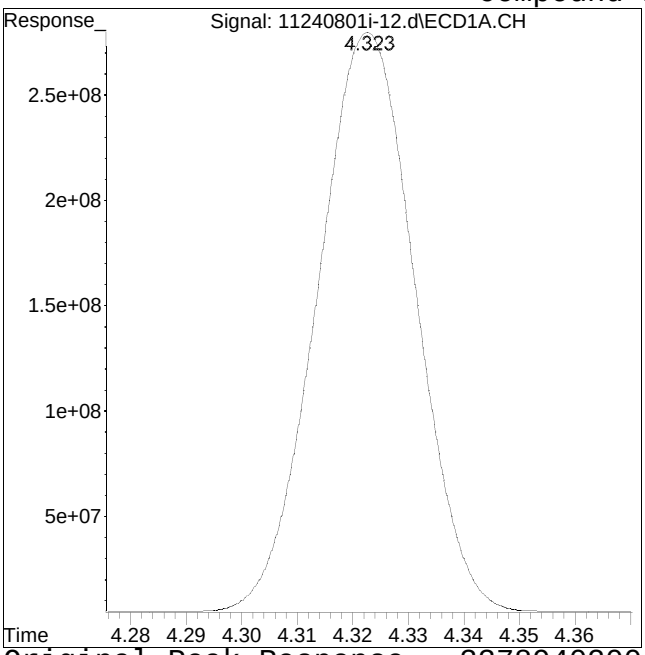
Original Peak Response = 3496556488 Manual Peak Response = 3492743180 M4
M4 = Poor automated baseline construction.

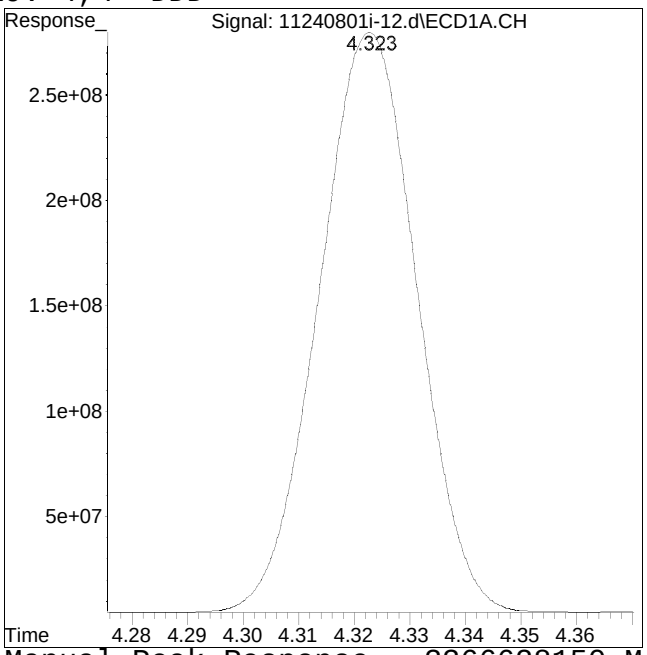
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #19: 4,4'-DDD





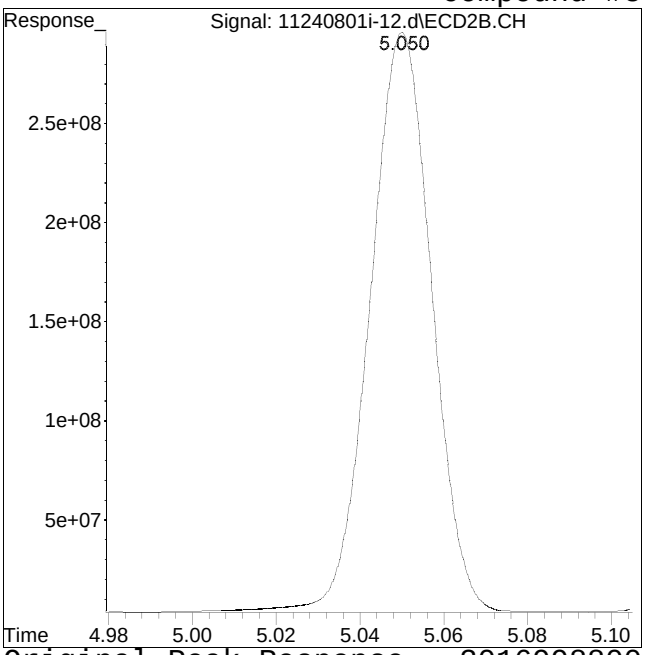
Original Peak Response = 3378940200 Manual Peak Response = 3366628150 M4
M4 = Poor automated baseline construction.

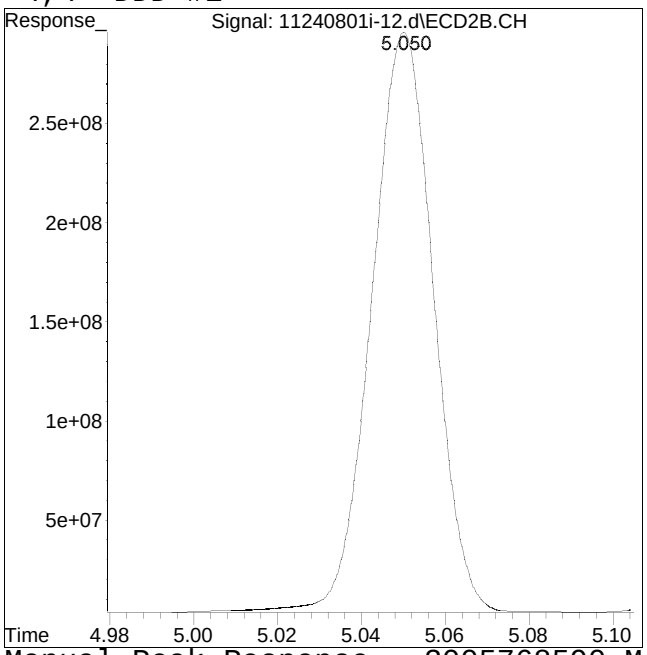
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #57: 4,4'-DDD #2



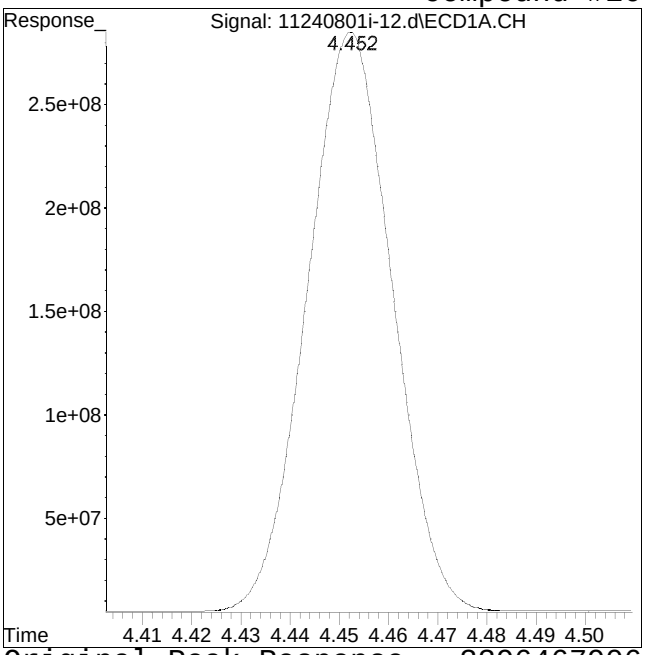


Original Peak Response = 3016998800 Manual Peak Response = 3005768590 M4
M4 = Poor automated baseline construction.

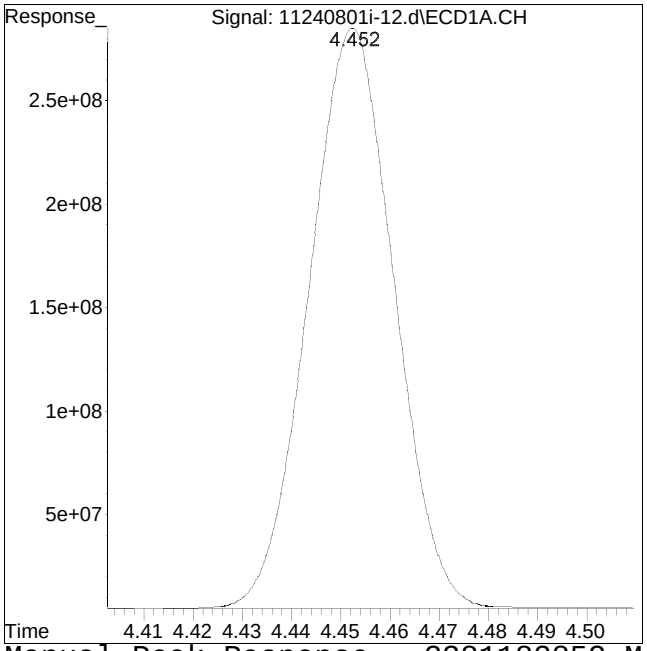
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #20: Endosulfan II



Original Peak Response = 3396467906



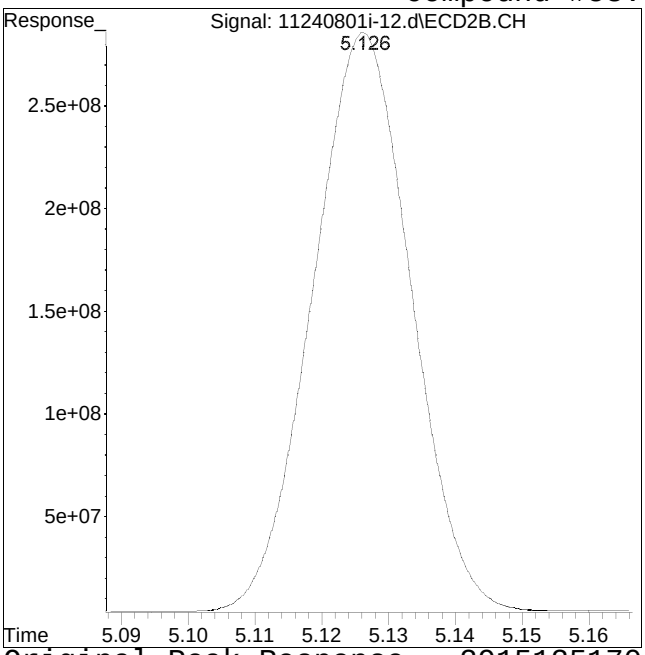
Manual Peak Response = 3381182853 M4

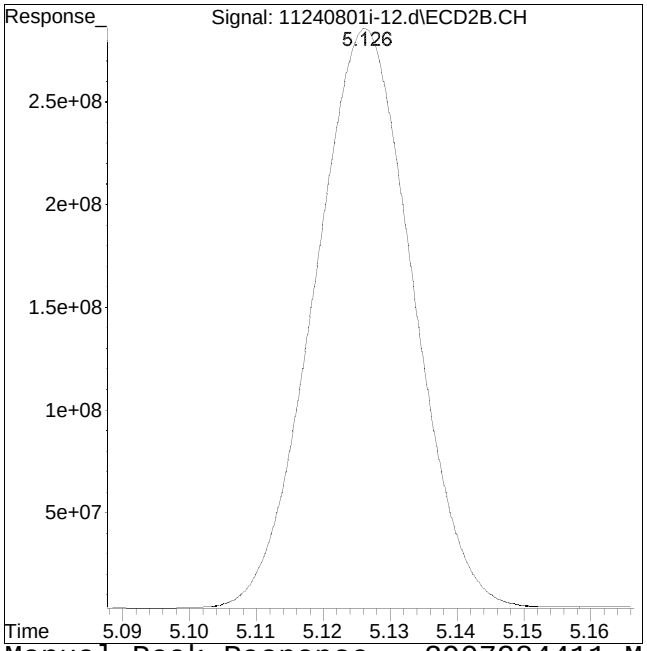
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #58: Endosulfan II #2



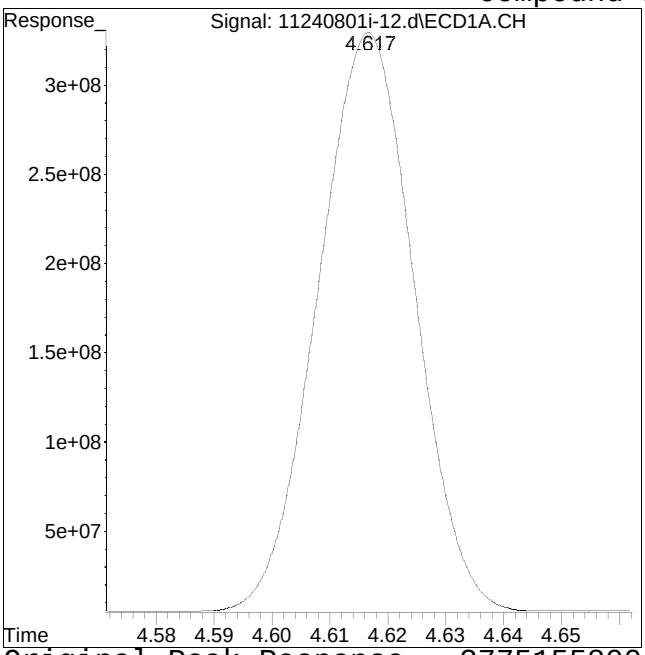


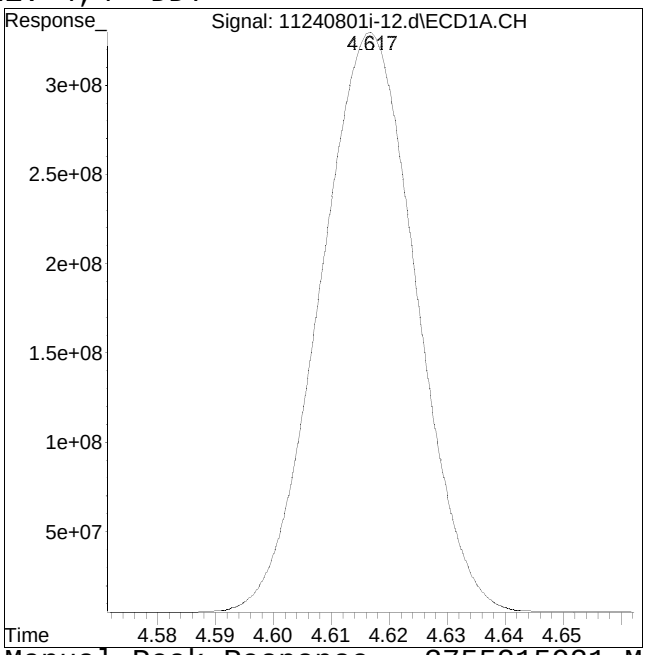
Original Peak Response = 2915125170 Manual Peak Response = 2907284411 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #21: 4,4'-DDT





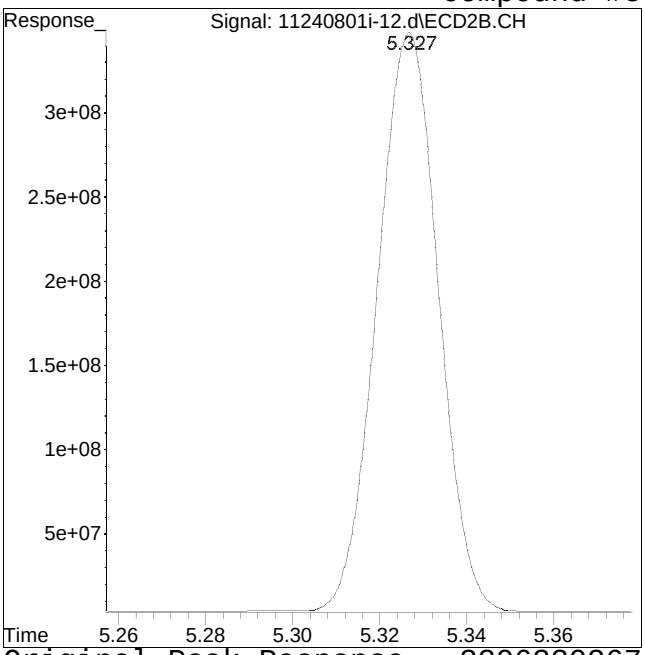
Original Peak Response = 3775155800 Manual Peak Response = 3755215921 M4
M4 = Poor automated baseline construction.

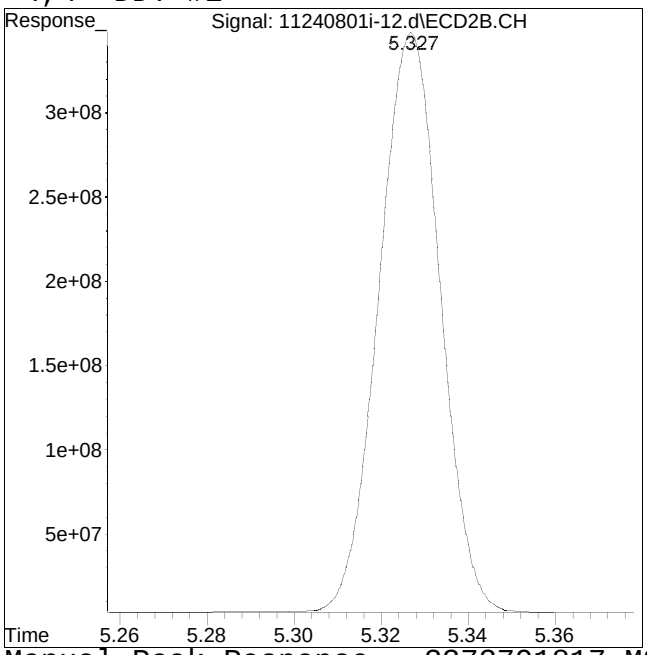
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #59: 4,4'-DDT #2





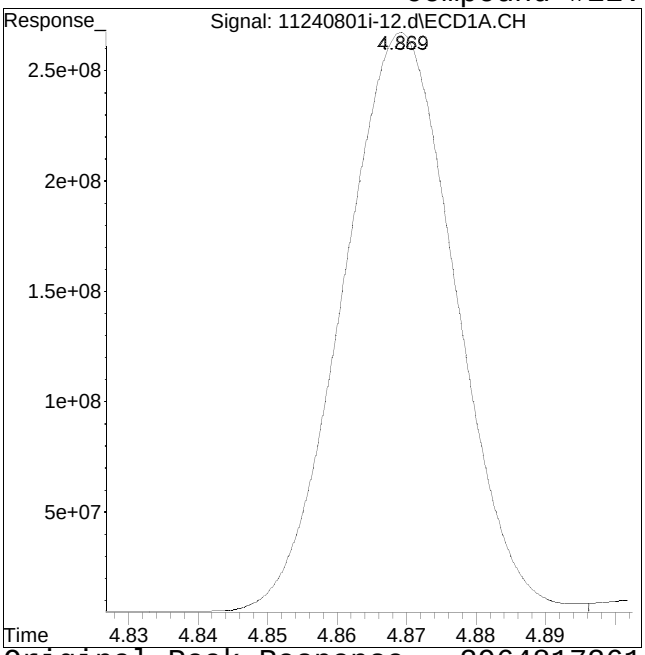
Original Peak Response = 3396339267 Manual Peak Response = 3373791817 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

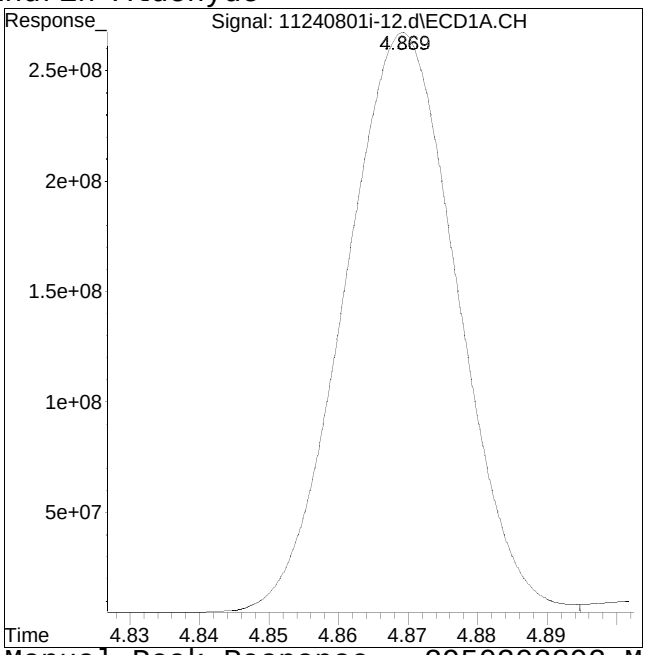
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #22: Endrin Aldehyde





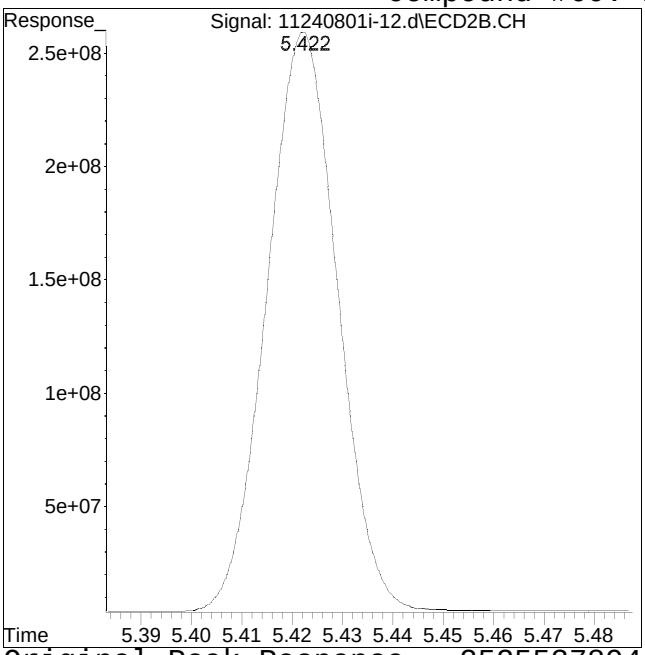
Original Peak Response = 2964817261 Manual Peak Response = 2950302392 M4
M4 = Poor automated baseline construction.

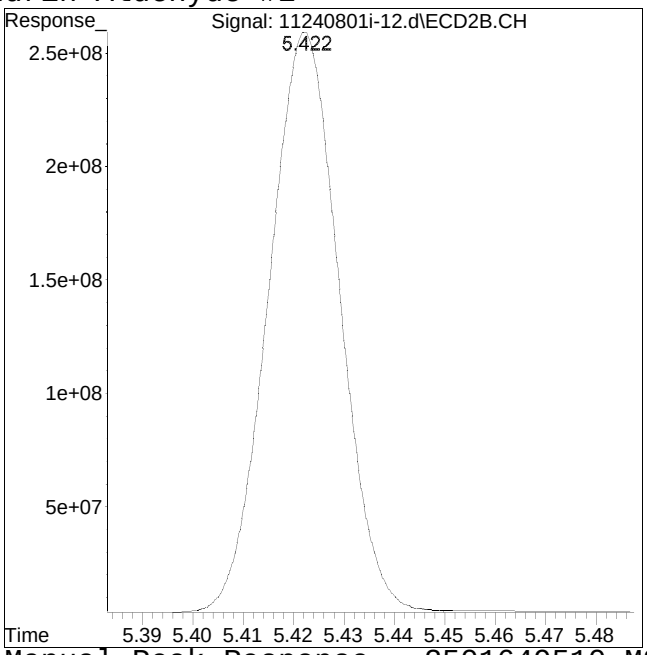
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #60: Endrin Aldehyde #2





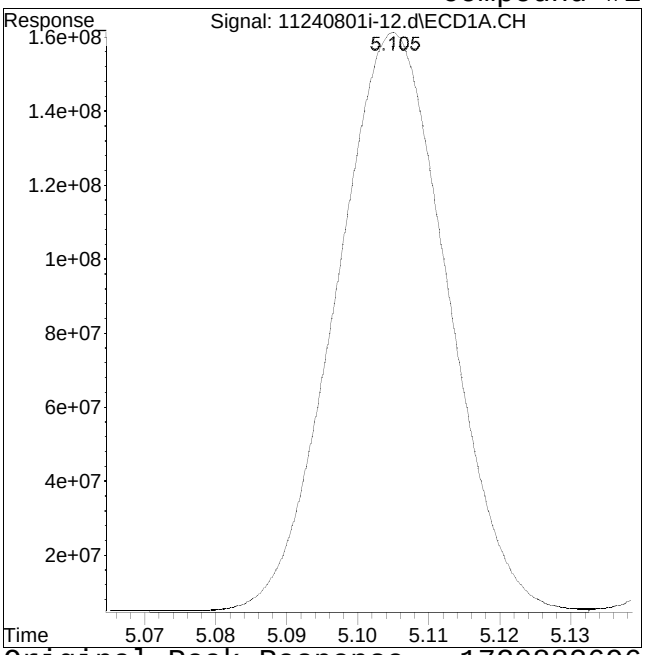
Original Peak Response = 2525537894 Manual Peak Response = 2501649510 M3

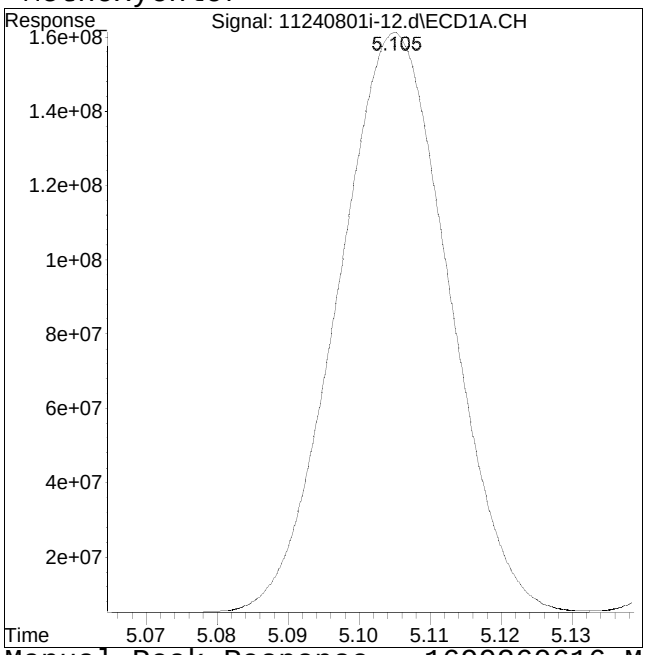
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #23: Methoxychlor



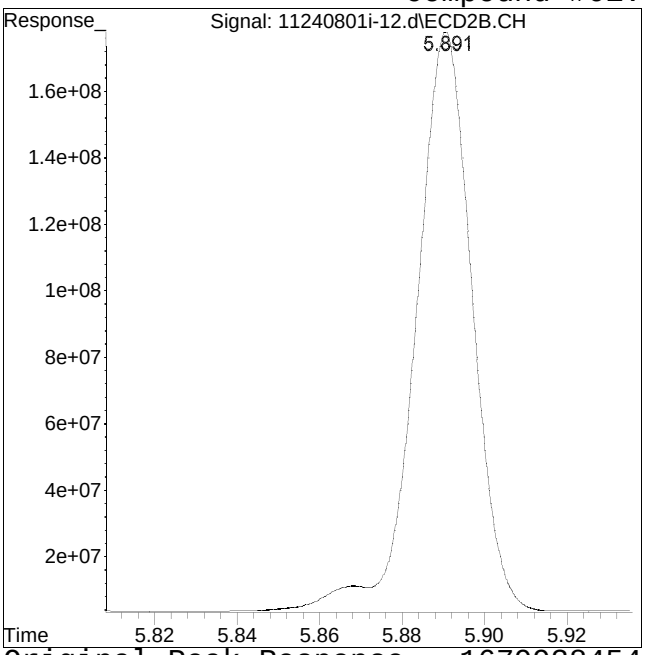


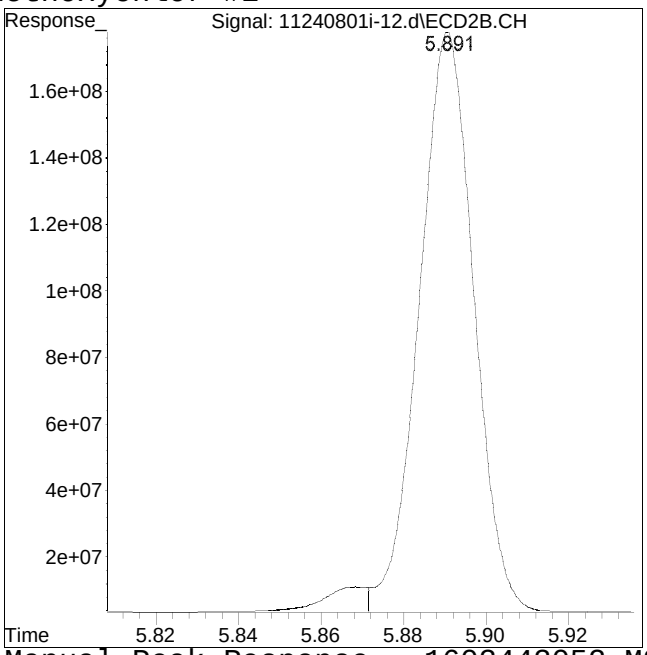
Original Peak Response = 1720883696 Manual Peak Response = 1699260616 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-12.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:25 Instrument : Pest 11
Sample : il11pest,42e,,pp 11678 L0.Quant Date : 8/2/2024 9:58 am

Compound #61: Methoxychlor #2



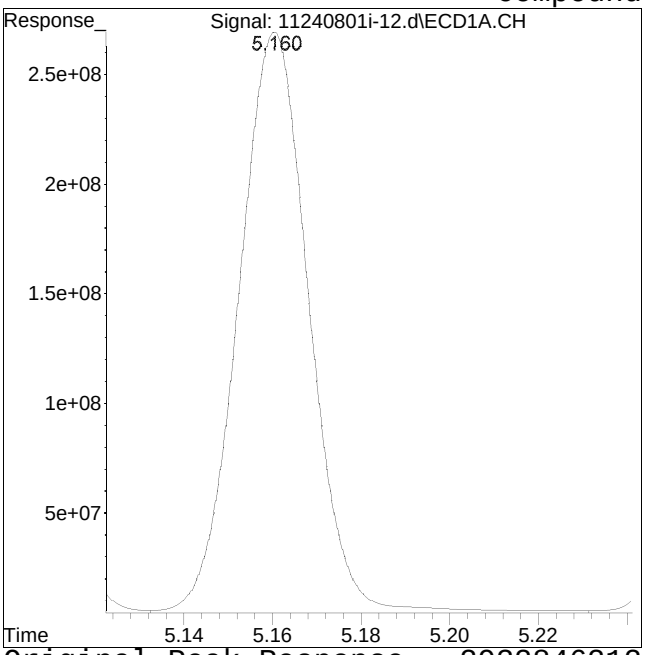


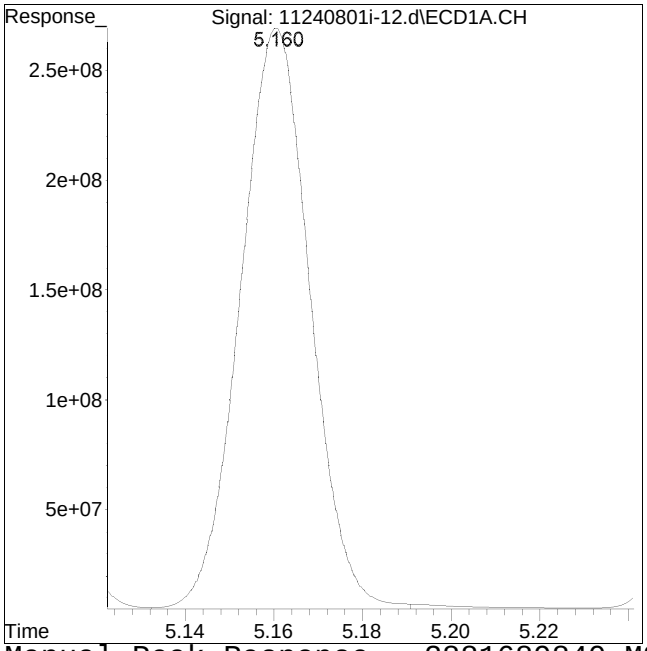
Original Peak Response = 1679938454 Manual Peak Response = 1603443052 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #24: Mirex





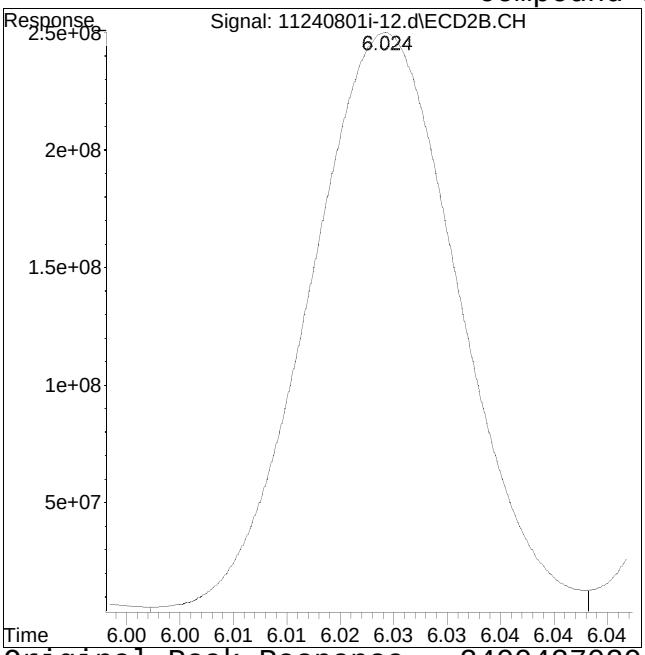
Original Peak Response = 2932846212 Manual Peak Response = 2881689840 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

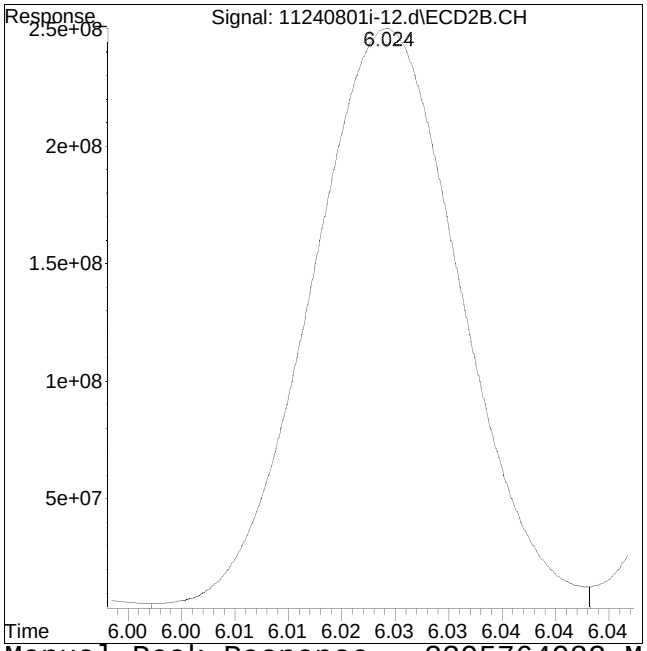
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #62: Mirex #2



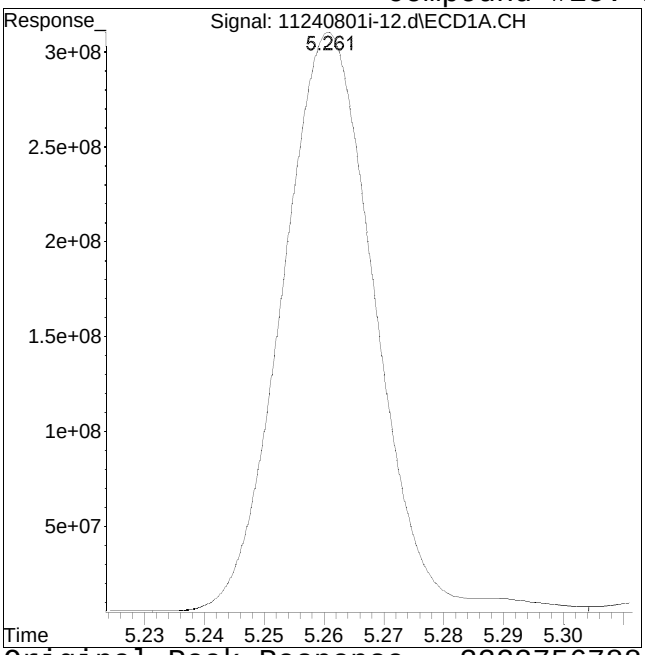


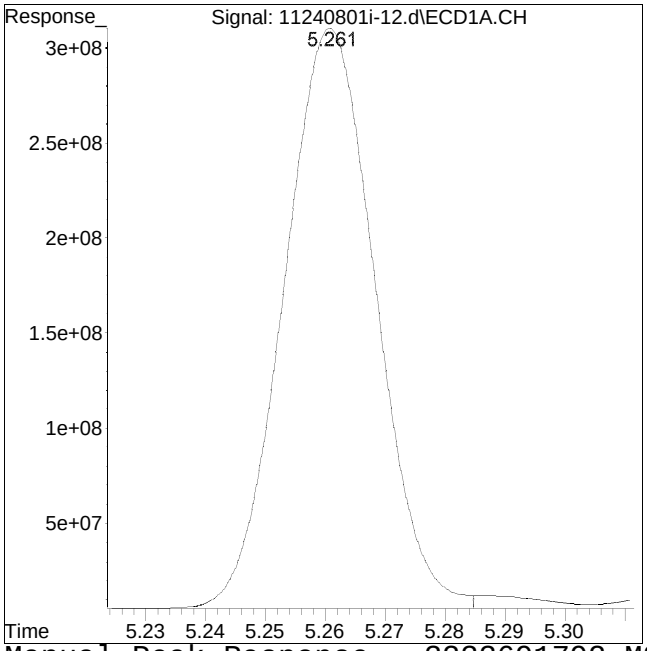
Original Peak Response = 2400427029 Manual Peak Response = 2395764983 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #25: Endosulfan Sulfate



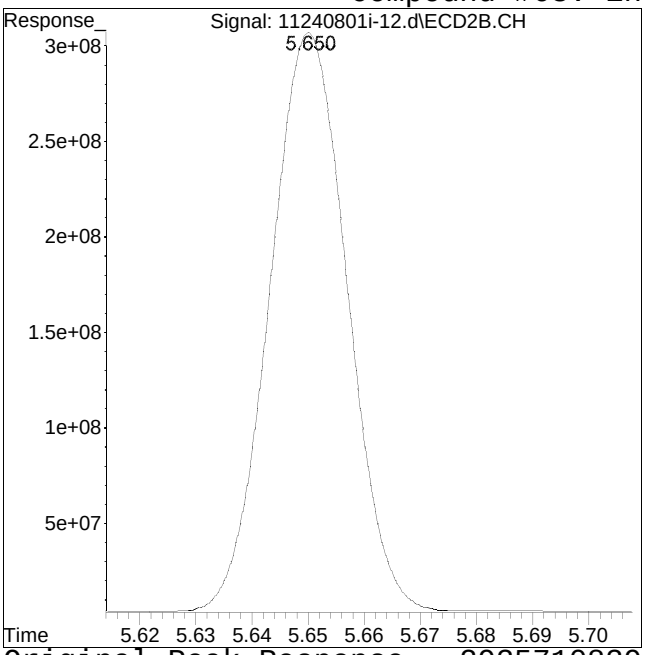


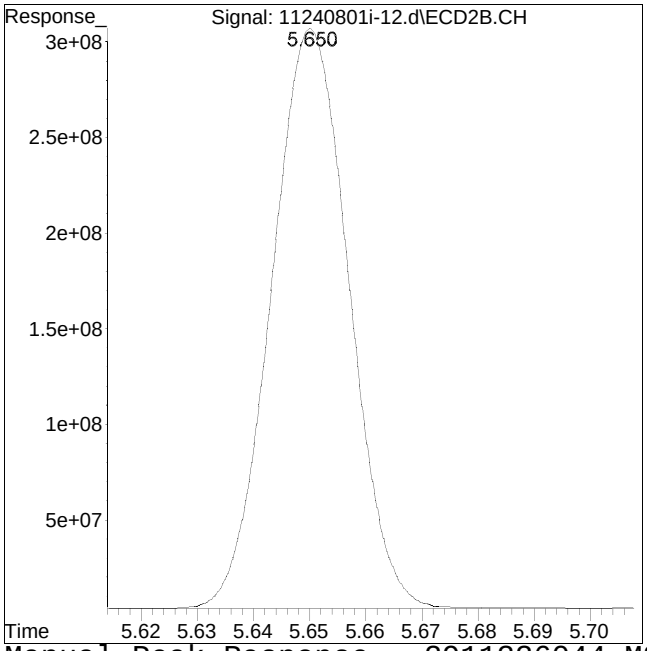
Original Peak Response = 3323756788 Manual Peak Response = 3233691792 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #63: Endosulfan Sulfate #2



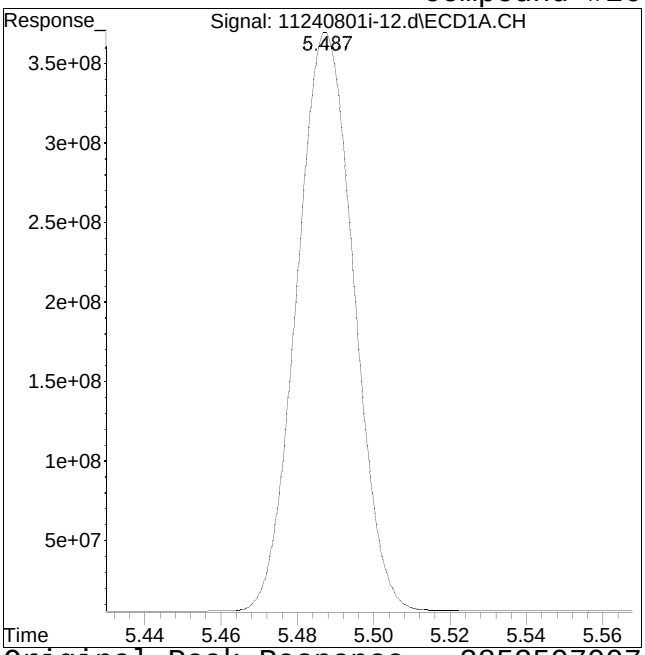


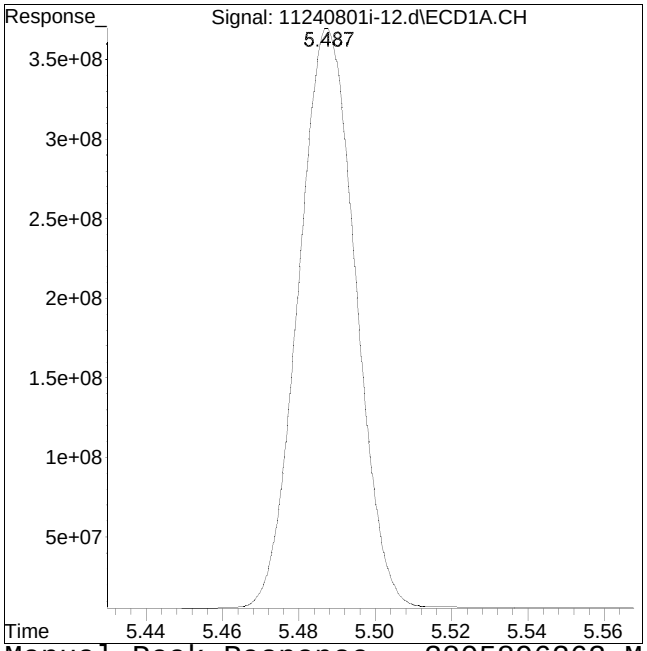
Original Peak Response = 2935710839 Manual Peak Response = 2911336044 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #26: Endrin Ketone



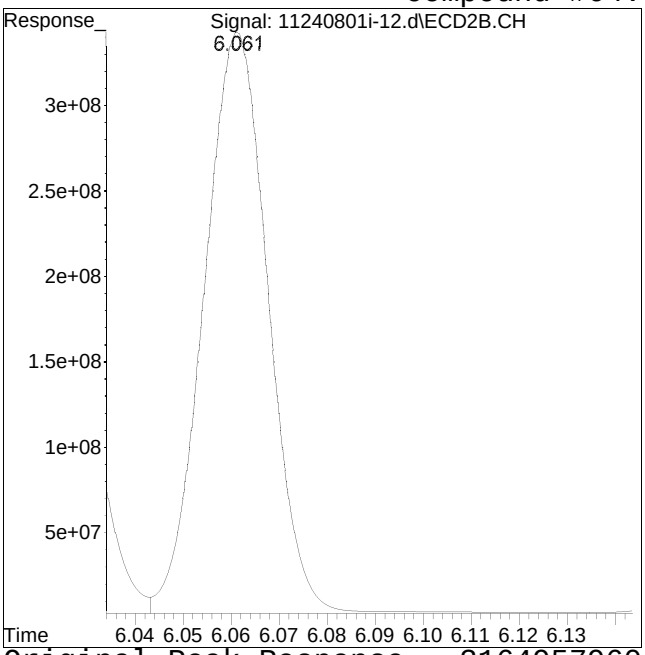


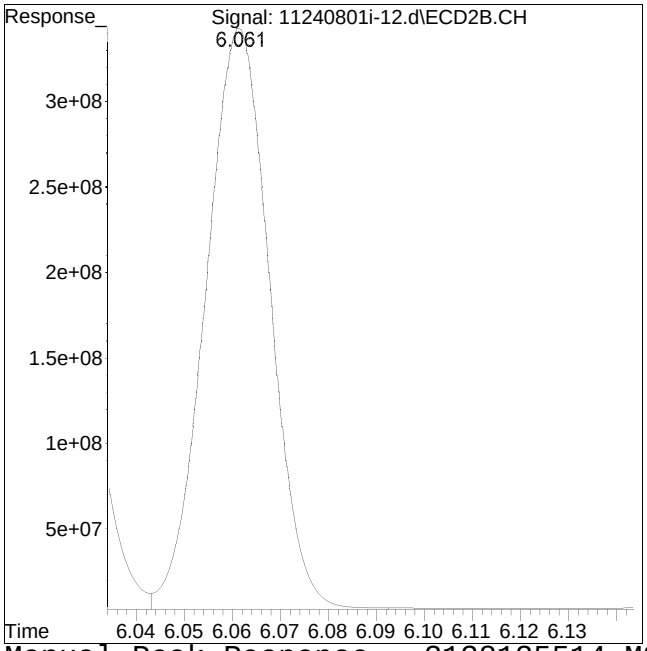
Original Peak Response = 3853597007 Manual Peak Response = 3805896263 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #64: Endrin Ketone #2





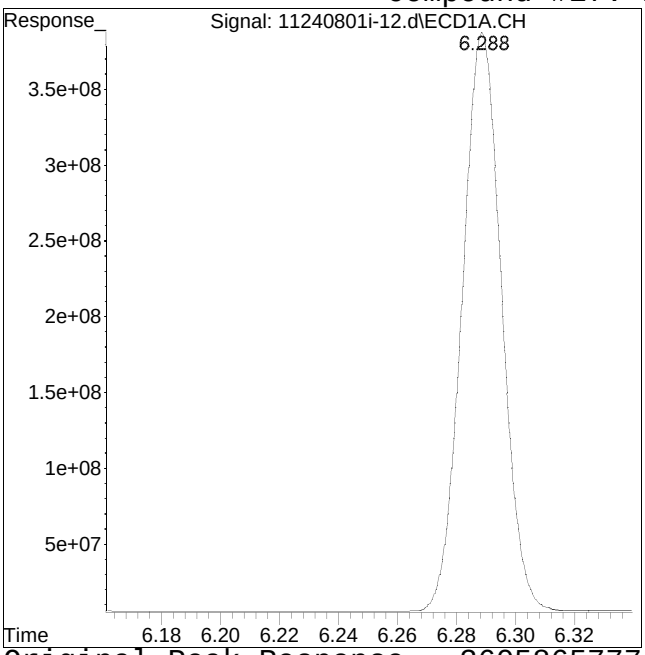
Original Peak Response = 3164957960 Manual Peak Response = 3138135514 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

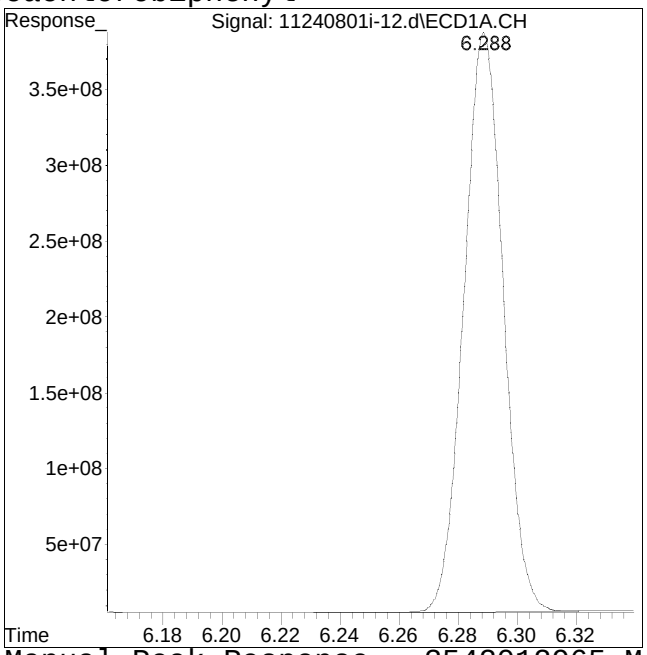
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #27: Decachlorobiphenyl





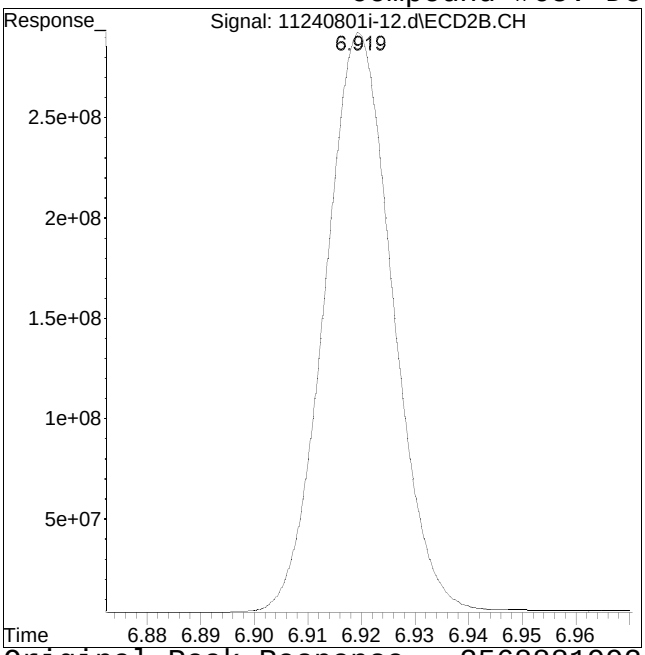
Original Peak Response = 3605865777 Manual Peak Response = 3542012965 M4
M4 = Poor automated baseline construction.

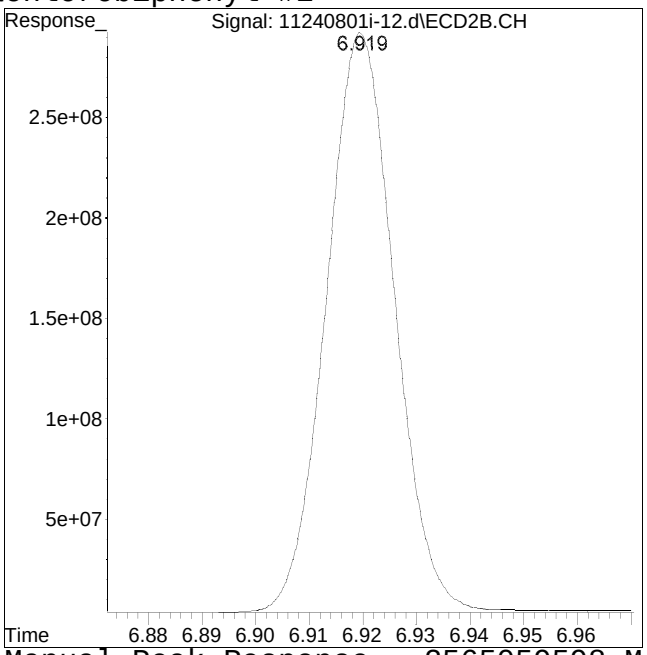
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-12.d
Date Inj'd : 8/1/2024 20:25
Sample : il11pest,42e,,pp 11678 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 9:58 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 2568881992 Manual Peak Response = 2565059598 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	1.028	1.1	93	0.00
3	t	Hexachlorobenzene		1.406	1.322	6.0	93	0.00
4	t	alpha-BHC		1.461	1.501	-2.7	90	0.00
5	t	gamma-BHC (lindane)		1.395	1.357	2.7	88	0.00
6	t	beta-BHC		0.628	0.580	7.6	90	0.00
7	t	delta-BHC		1.374	1.334	2.9	85	0.00
8	t	Heptachlor		1.321	1.281	3.0	89	0.00
9	t	Aldrin		1.233	1.226	0.6	90	0.00
10	t	Alachlor		0.230	0.221	3.9	92	0.00
11	t	Chlorpyrifos		0.590	0.520	11.9	91	0.00
12	t	Heptachlor Epoxide		1.185	1.133	4.4	89	0.00
13	t	gamma-Chlordane (trans)		1.077	1.158	-7.5	101	0.00
14	t	alpha-Chlordane (cis)		1.216	1.146	5.8	88	0.00
15	t	4,4'-DDE		1.192	1.168	2.0	90	0.00
16	t	Endosulfan I		1.116	1.064	4.7	89	0.00
17	t	Dieldrin		1.135	1.204	-6.1	97	0.00
18	t	Endrin		1.153	1.120	2.9	88	0.00
19	t	4,4'-DDD		0.927	0.970	-4.6	96	0.00
20	t	Endosulfan II		1.052	1.055	-0.3	93	0.00
21	t	4,4'-DDT		1.058	1.044	1.3	91	0.00
22	t	Endrin Aldehyde		0.886	0.798	9.9	86	0.00
23	t	Methoxychlor		0.592	0.578	2.4	96	0.00
24	t	Mirex		0.938	0.888	5.3	95	0.00
25	t	Endosulfan Sulfate		1.010	0.981	2.9	93	0.00
26	t	Endrin Ketone		1.183	1.257	-6.3	99	0.00
27	s	Decachlorobiphenyl		1.163	1.085	6.7	99	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	1.042	6.5	91	0.00
3	t	Hexachlorobenzene		1.239	1.113	10.2	92	0.00
4	t	alpha-BHC		1.620	1.576	2.7	88	0.00
5	t	gamma-BHC (lindane)		1.539	1.407	8.6	87	0.00
6	t	beta-BHC	*	50.000	47.735	4.5	89	0.00
7	t	delta-BHC		1.523	1.383	9.2	85	0.00
8	t	Heptachlor		1.598	1.441	9.8	88	0.00
9	t	Aldrin		1.435	1.344	6.3	89	0.00
10	t	Alachlor	*	50.000	52.133	-4.3	92	0.00
11	t	Chlorpyrifos	*	50.000	49.655	0.7	89	0.00
12	t	Heptachlor Epoxide		1.425	1.243	12.8	87	0.00
13	t	gamma-Chlordane (trans)		1.312	1.296	1.2	100	0.00
14	t	alpha-Chlordane (cis)		1.446	1.265	12.5	88	0.00
15	t	4,4'-DDE		1.343	1.252	6.8	88	0.00
16	t	Endosulfan I		1.332	1.167	12.4	88	0.00
17	t	Dieldrin		1.327	1.319	0.6	96	0.00
18	t	Endrin		1.347	1.231	8.6	88	0.00
19	t	4,4'-DDD		1.084	1.070	1.3	94	0.00
20	t	Endosulfan II		1.214	1.119	7.8	92	0.00
21	t	4,4'-DDT		1.250	1.163	7.0	90	0.00
22	t	Endrin Aldehyde	*	50.000	45.377	9.2	85	0.00
23	t	Methoxychlor		0.704	0.626	11.1	94	0.00
24	t	Mirex	*	50.000	50.644	-1.3	94	0.00
25	t	Endosulfan Sulfate		1.199	1.078	10.1	92	0.00
26	t	Endrin Ketone		1.261	1.242	1.5	98	0.00
27	s	Decachlorobiphenyl		1.060	0.941	11.2	95	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample   : cicvpest,42e,,pp 11675 L0.05ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1	*	0.037	0.000	100.0#	0#	-2.45#
30	l1	chlordane-3	*	0.047	0.000	100.0#	0#	-2.87#
31	l1	chlordane-4	*	0.159	0.000	100.0#	0#	-3.42#
32	l1	chlordane-5	*	0.245	0.000	100.0#	0#	-3.55#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-2	*	0.050	0.000	100.0#	0#	-4.44#
35	l2	toxaphene-3	*	0.039	0.000	100.0#	0#	-4.57#
36	l2	toxaphene-4	*	0.042	0.000	100.0#	0#	-4.79#
37	l2	toxaphene-5	*	0.043	0.000	100.0#	0#	-5.17#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.39#
29	l1	chlordane-1	*	0.043	0.000	100.0#	0#	-2.82#
30	l1	chlordane-3	*	0.052	0.000	100.0#	0#	-3.42#
31	l1	chlordane-4	*	0.173	0.000	100.0#	0#	-4.10#
32	l1	chlordane-5	*	0.134	0.000	100.0#	0#	-4.28#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.39#
34	l2	toxaphene-2	*	0.025	0.000	100.0#	0#	-5.08#
35	l2	toxaphene-3	*	0.037	0.000	100.0#	0#	-5.11#
36	l2	toxaphene-4	*	0.044	0.000	100.0#	0#	-5.43#
37	l2	toxaphene-5	*	0.042	0.000	100.0#	0#	-5.84#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.309	1.386	222.3E6	177.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.652	1.858	456.9E6	370.0E6	49.453M3	46.772M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		98.91%	93.54%
27) s	Decachlorobi	6.288	6.918	482.5E6	334.3E6	46.657M3	44.401M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		93.31%	88.80%
	Target Compounds						
3) t	Hexachlorobe	1.865	2.178	587.8E6	395.1E6	47.014M3	44.899M3
4) t	alpha-BHC	1.963	2.271	667.2E6	559.8E6	51.377M4	48.662M4
5) t	gamma-BHC (l	2.165	2.557	603.3E6	499.8E6	48.621M4	45.722M4
6) t	beta-BHC	2.221	2.623	257.8E6	214.1E6	46.189M4	47.735M3
7) t	delta-BHC	2.349	2.890	593.1E6	491.2E6	48.542M4	45.411
8) t	Heptachlor	2.513	2.953	569.5E6	511.7E6	48.485M4	45.092
9) t	Aldrin	2.756	3.272	545.1E6	477.4E6	49.714M3	46.842
10) t	Alachlor	2.876	3.153	98339329	67754072	48.033M4	52.133M4
11) t	Chlorpyrifos	2.968	3.506	231.0E6	247.0E6	44.053M3	49.655M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.300	3.884	503.7E6	441.6E6	47.784M3	43.617M3
13)	t	gamma-Chlord	3.425	4.105	514.8E6	460.2E6	53.753M4	49.404M4
14)	t	alpha-Chlord	3.559	4.274	509.4E6	449.4E6	47.103M4	43.758
15)	t	4,4'-DDE	3.656	4.473	519.3E6	444.5E6	49.014M4	46.608M4
16)	t	Endosulfan I	3.695	4.336	473.1E6	414.6E6	47.669M3	43.821M4
17)	t	Dieldrin	3.954	4.627	535.4E6	468.3E6	53.047M4	49.677M3
18)	t	Endrin	4.210	4.926	497.7E6	437.0E6	48.558	45.687
19)	t	4,4'-DDD	4.322	5.049	431.2E6	379.8E6	52.297	49.344M4
20)	t	Endosulfan I	4.451	5.125	468.9E6	397.6E6	50.128	46.124M4
21)	t	4,4'-DDT	4.616	5.326	464.0E6	412.9E6	49.301	46.497M4
22)	t	Endrin Aldeh	4.868	5.421	355.0E6	301.1E6	45.037M4	45.377M3
23)	t	Methoxychlor	5.104	5.890	256.9E6	222.3E6	48.807M4	44.431M3
24)	t	Mirex	5.160	6.023	394.7E6	325.6E6	47.337M3	50.644M4
25)	t	Endosulfan S	5.260	5.649	436.2E6	382.7E6	48.586M3	44.940M4
26)	t	Endrin Keton	5.486	6.060	558.9E6	441.2E6	53.123M4	49.265M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

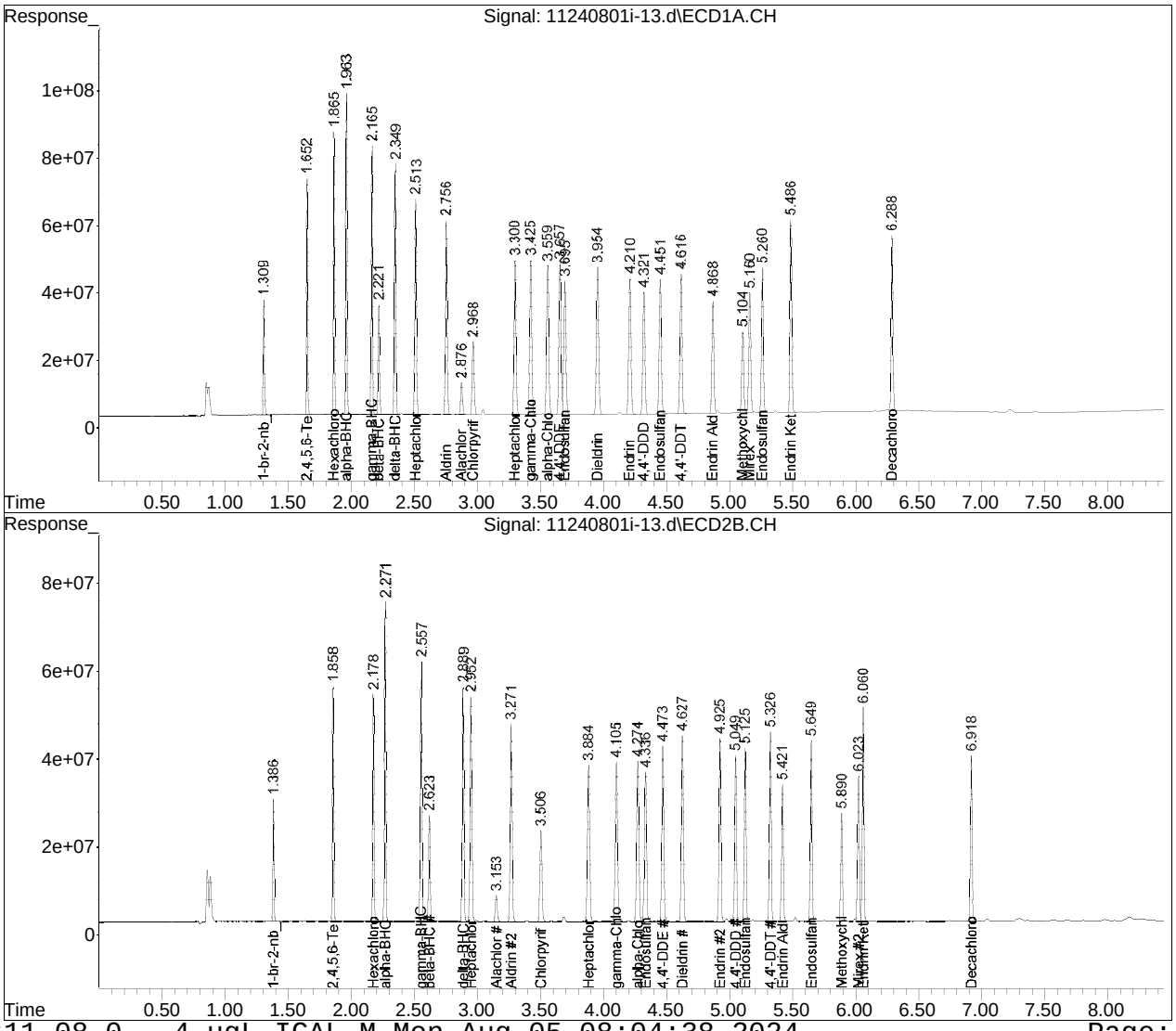
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:36
Operator : PEST11:ejl
Sample : cicvpest,42e,,pp 11675 L0.05ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:49:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:49:27 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

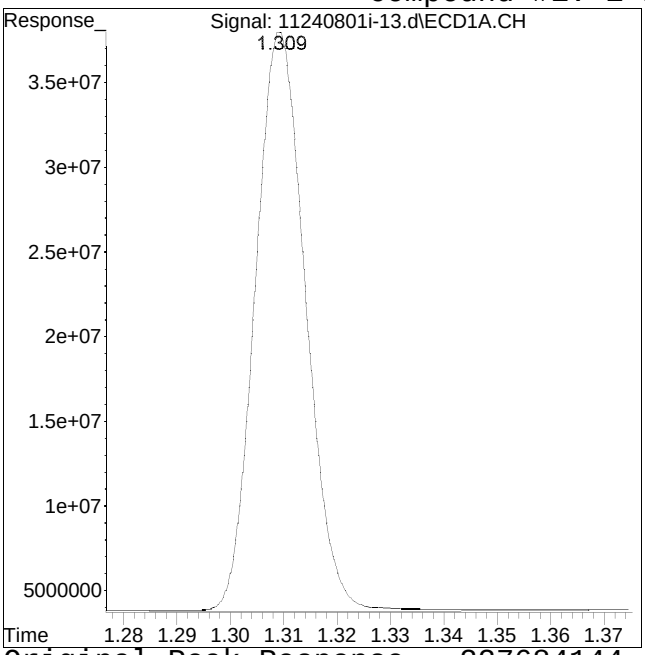


Manual Integration Report

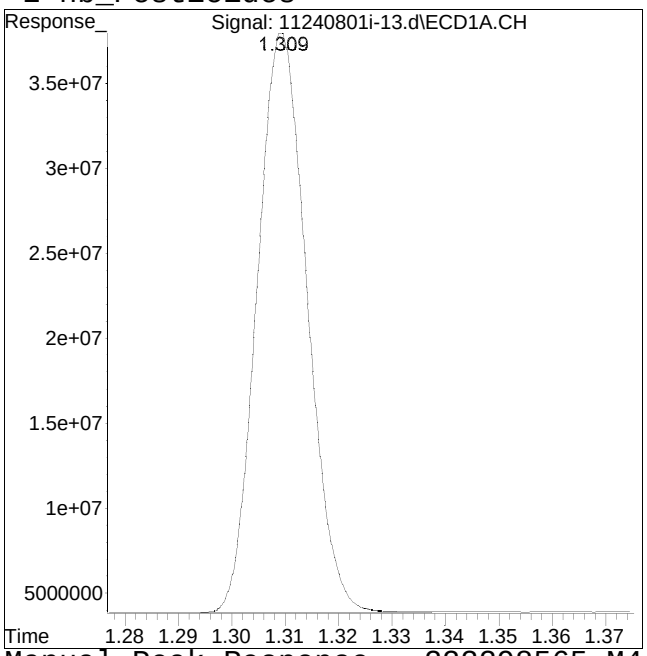
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 227684144



Manual Peak Response = 222298565 M4

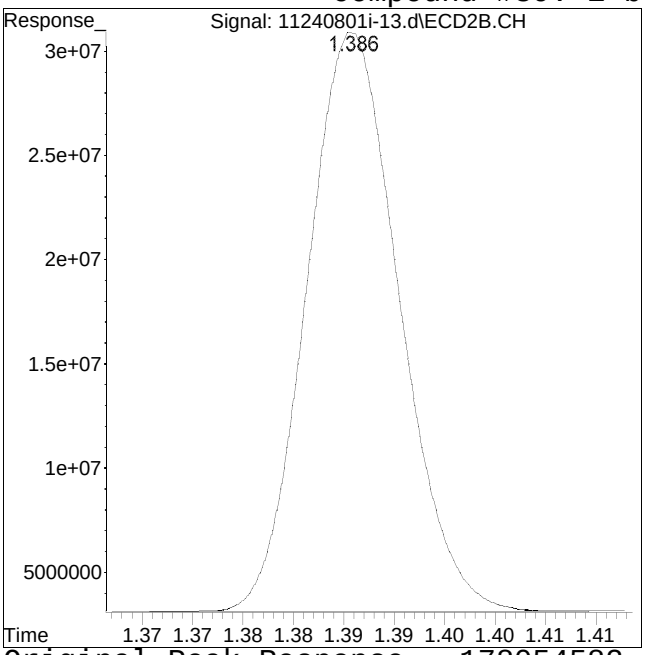
M4 = Poor automated baseline construction.

Manual Integration Report

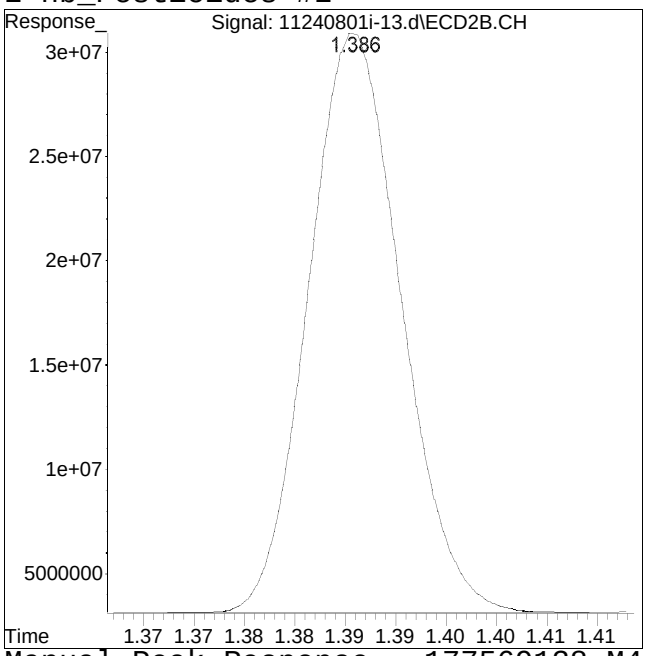
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 178054582



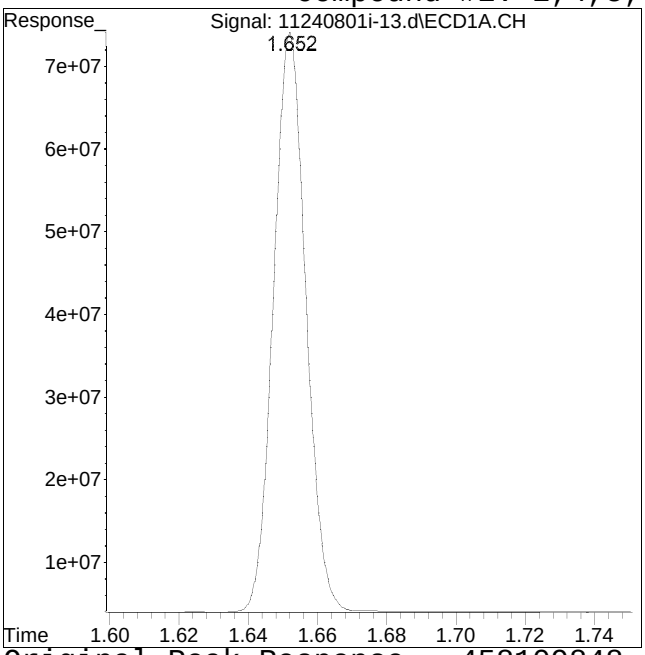
Manual Peak Response = 177569138 M4

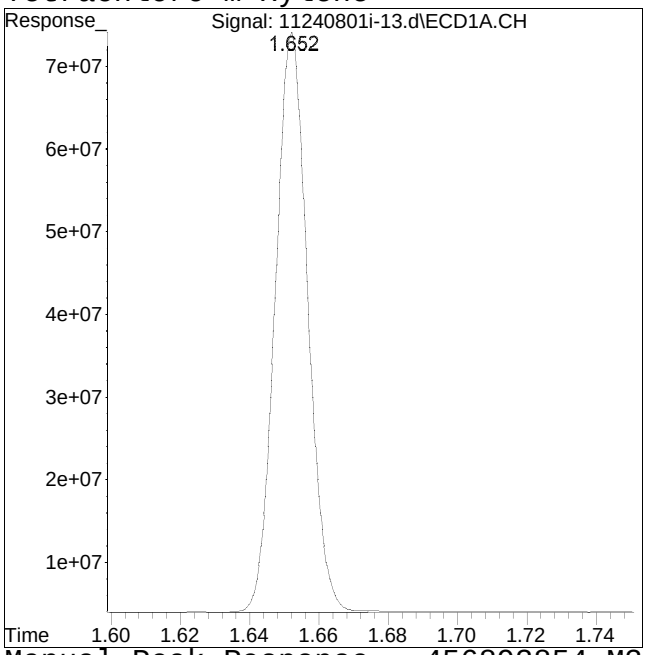
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



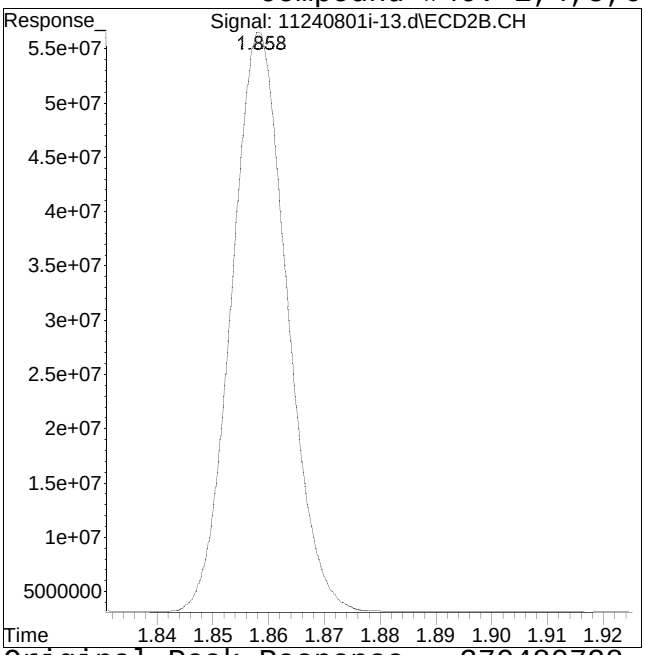


Original Peak Response = 458109848 Manual Peak Response = 456893854 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

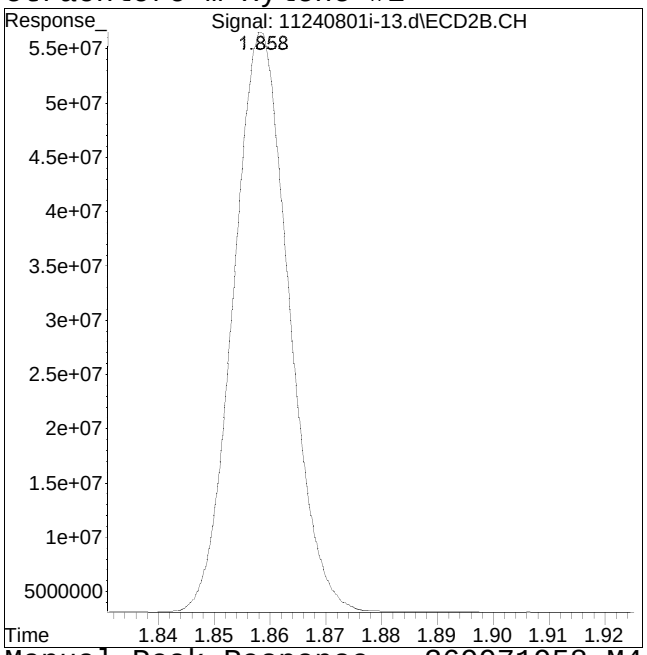
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 370480728



Manual Peak Response = 369971958 M4

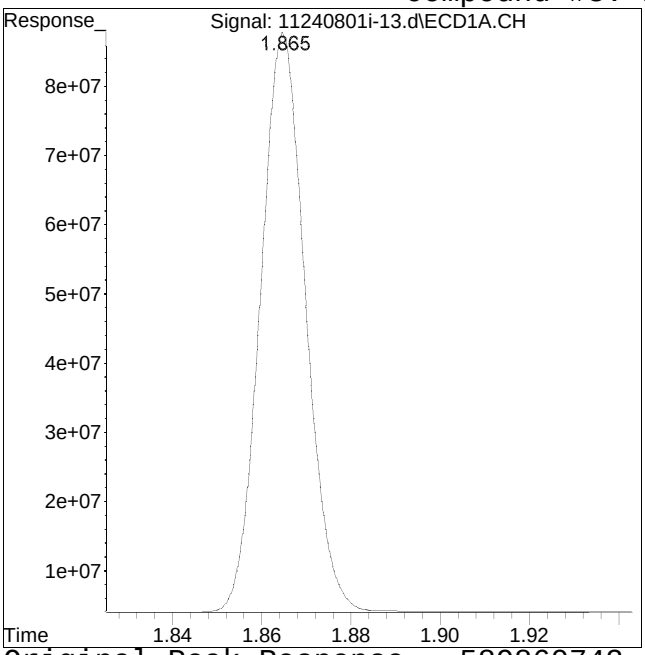
M4 = Poor automated baseline construction.

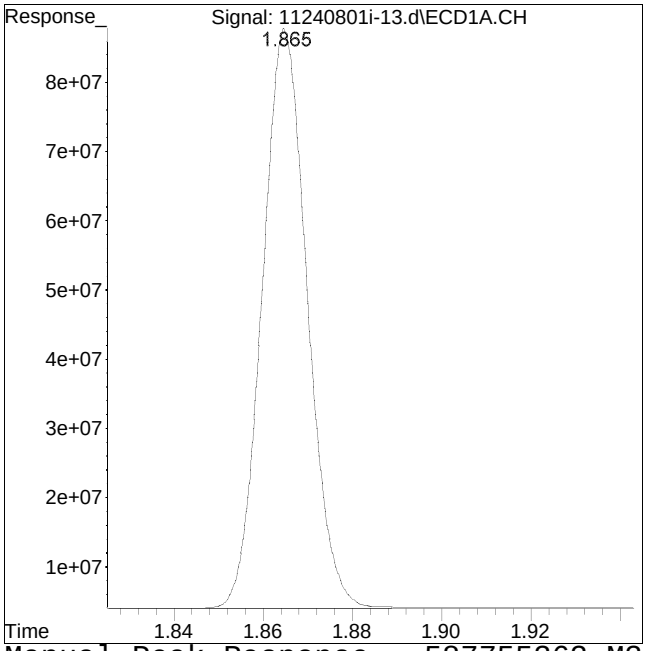
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #3: Hexachlorobenzene





Original Peak Response = 589860742 Manual Peak Response = 587755363 M3

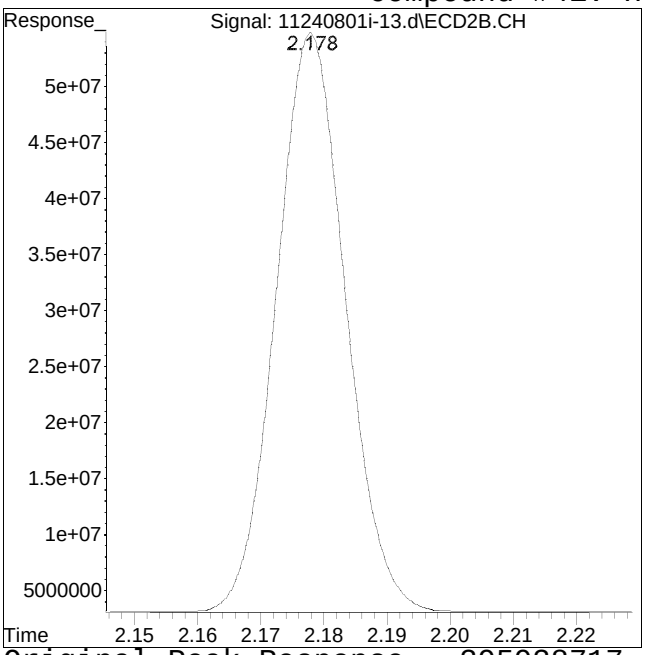
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

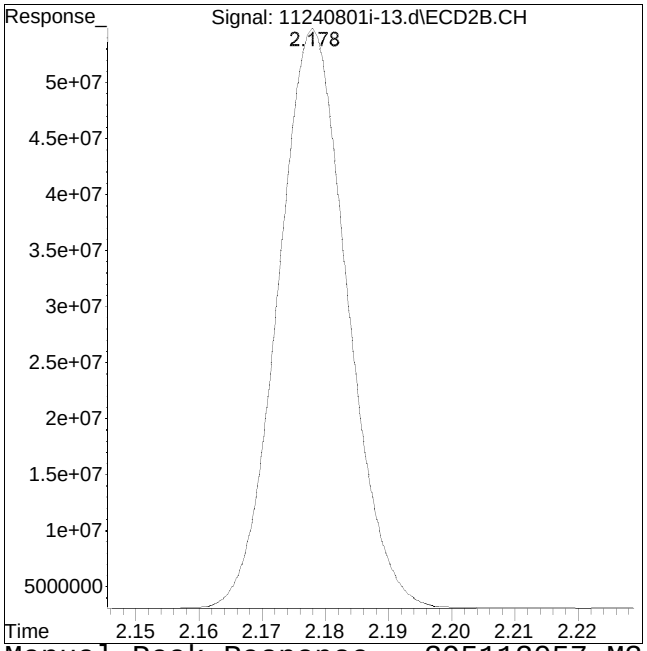
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #41: Hexachlorobenzene #2





Original Peak Response = 395938717 Manual Peak Response = 395113057 M3

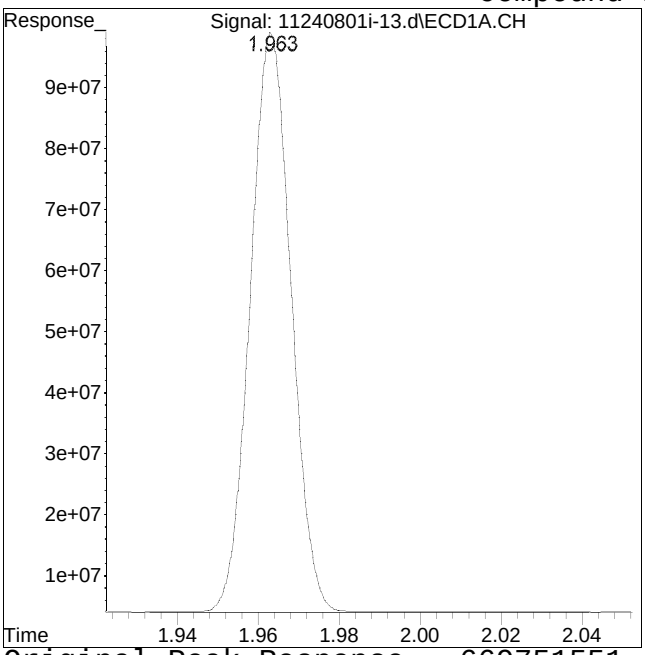
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

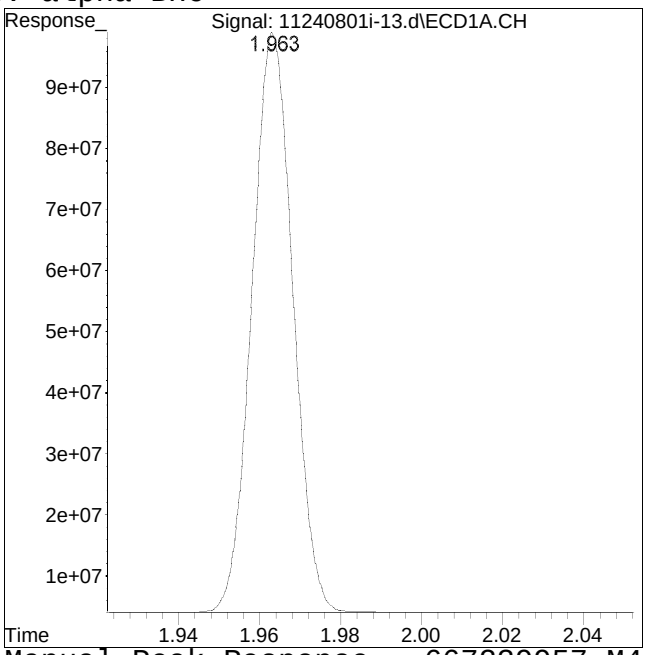
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #4: alpha-BHC



Original Peak Response = 669751551



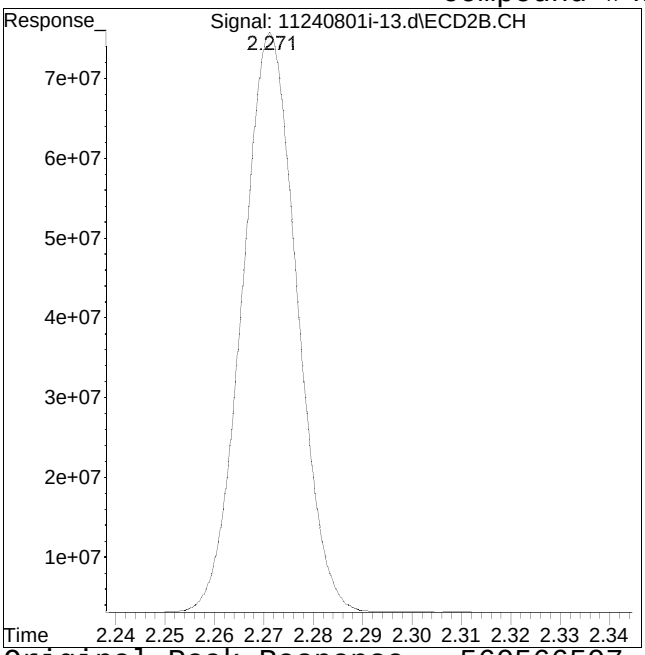
Manual Peak Response = 667239957 M4

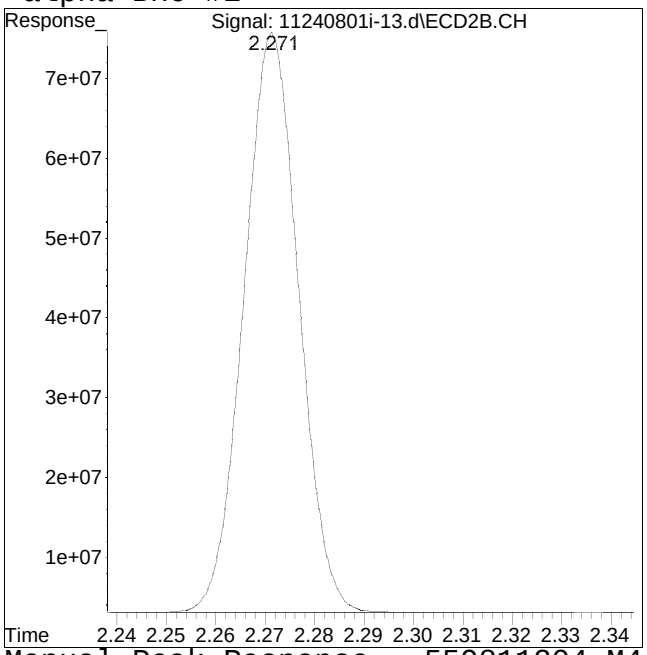
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #42: alpha-BHC #2



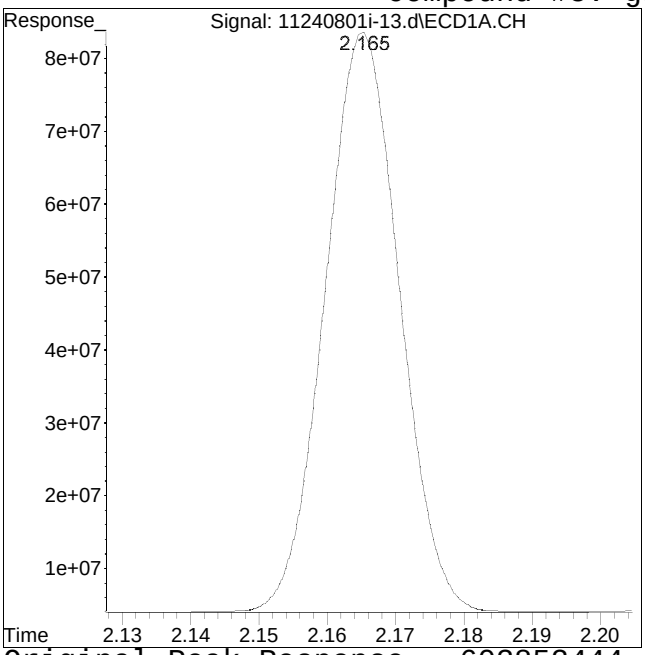


Original Peak Response = 560566507 Manual Peak Response = 559811204 M4
M4 = Poor automated baseline construction.

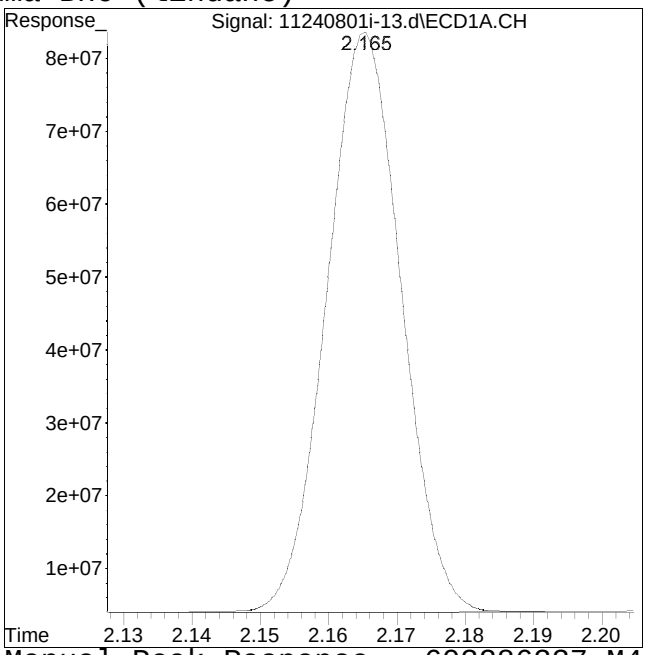
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 603852444



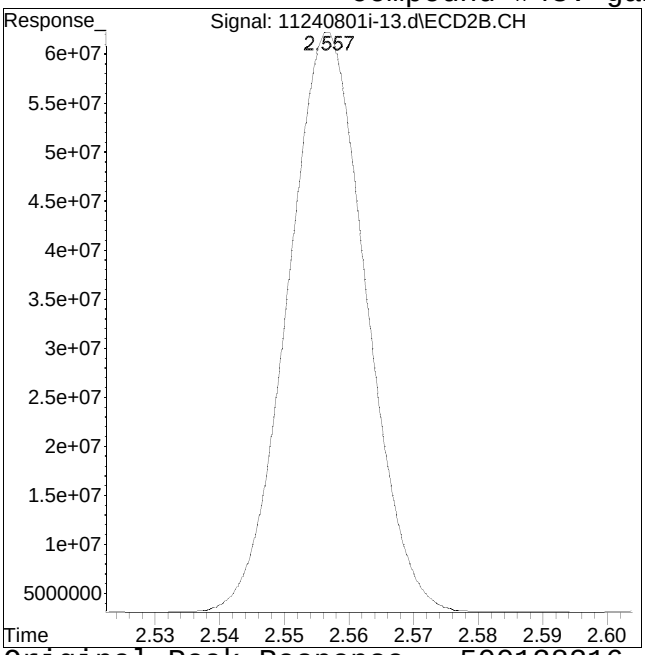
Manual Peak Response = 603286337 M4

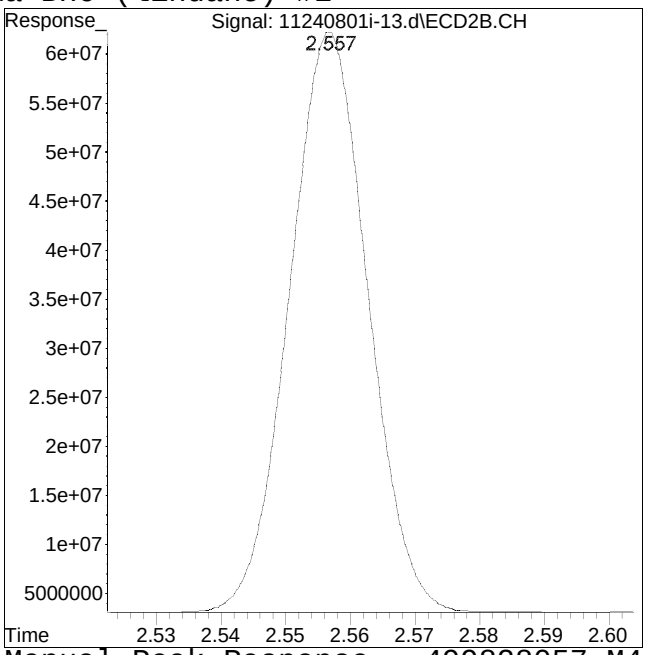
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #43: gamma-BHC (lindane) #2





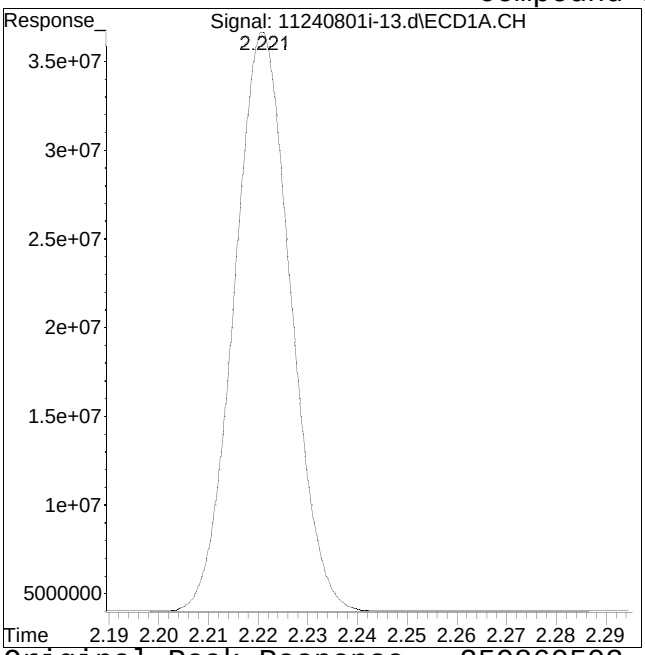
Original Peak Response = 500138316 Manual Peak Response = 499828057 M4
M4 = Poor automated baseline construction.

Manual Integration Report

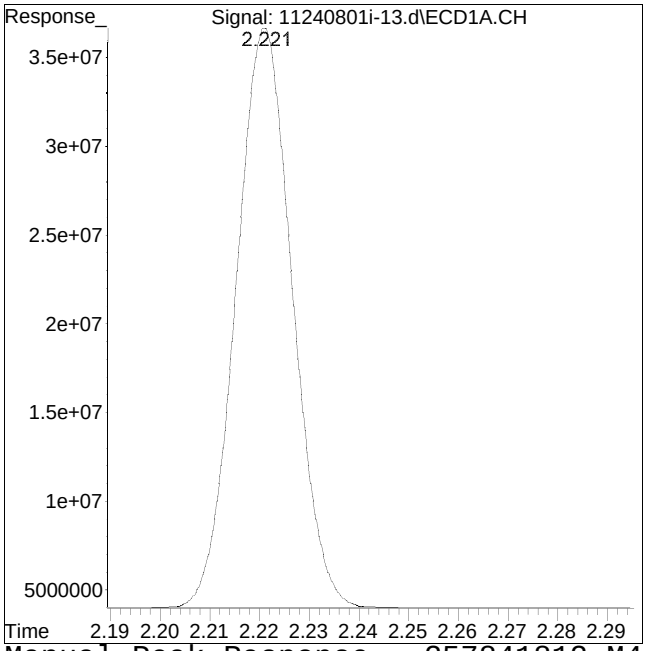
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #6: beta-BHC



Original Peak Response = 259860503



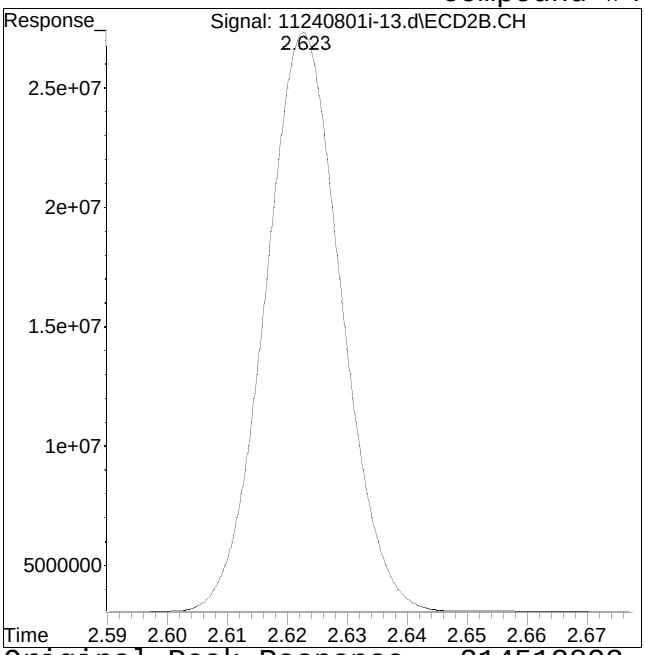
Manual Peak Response = 257841812 M4

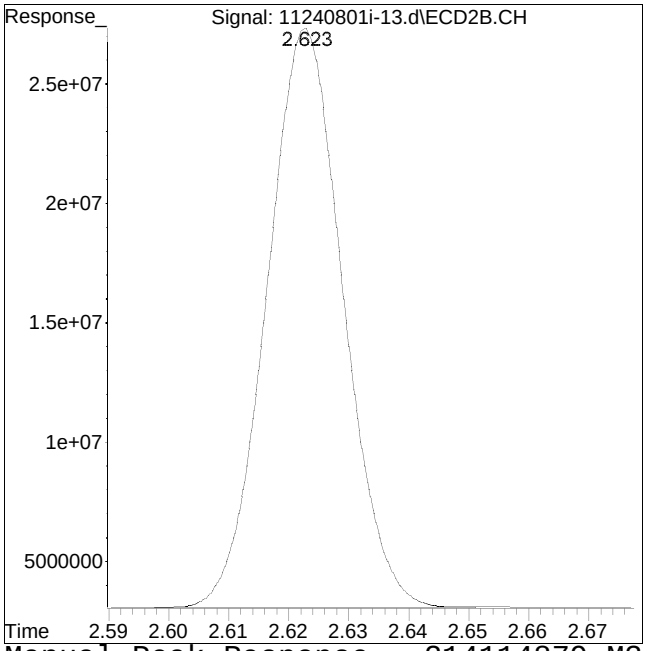
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #44: beta-BHC #2





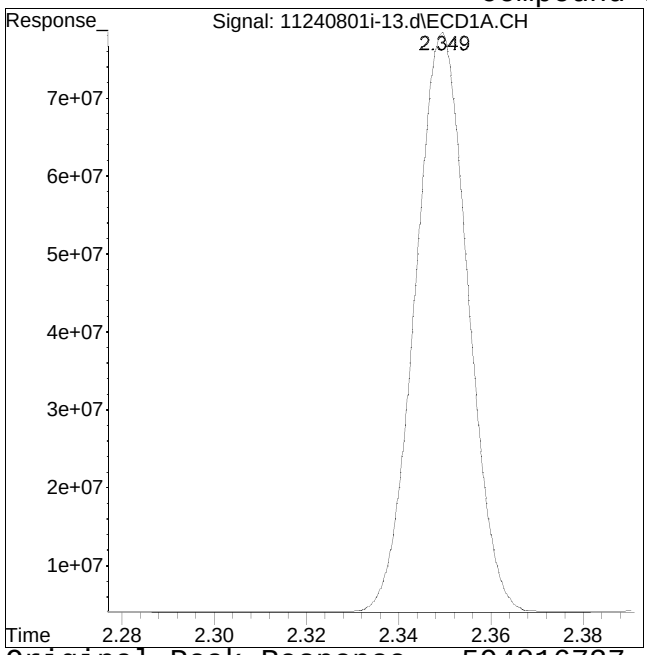
Original Peak Response = 214512823 Manual Peak Response = 214114879 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

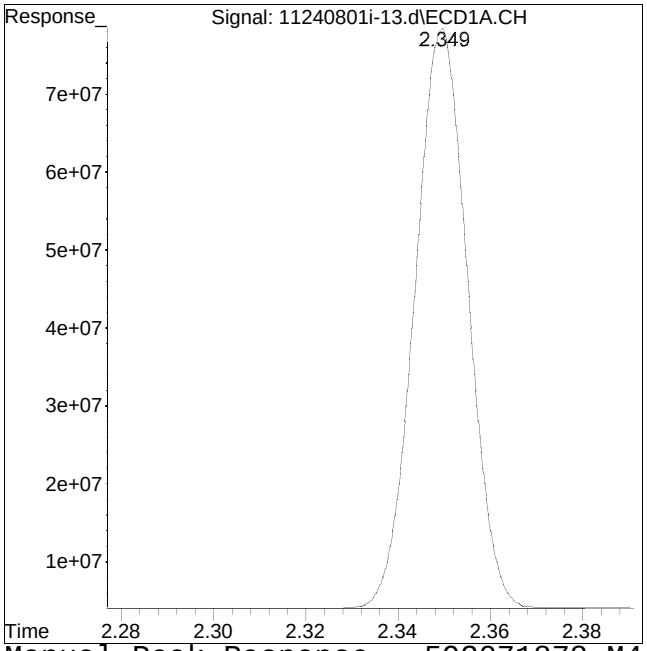
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #7: delta-BHC



Original Peak Response = 594816737



Manual Peak Response = 593071878 M4

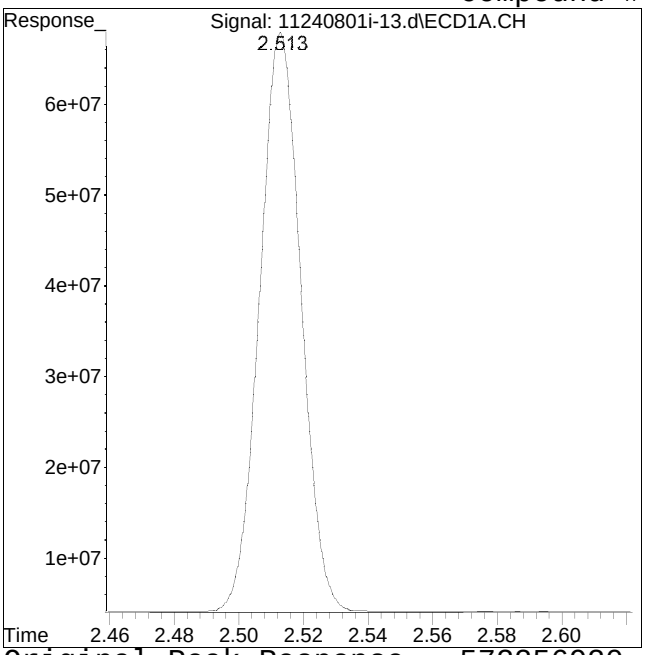
M4 = Poor automated baseline construction.

Manual Integration Report

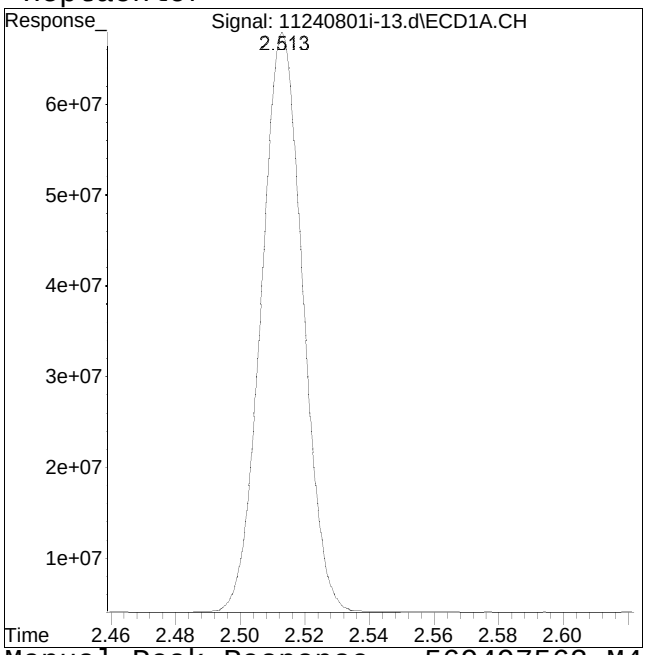
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #8: Heptachlor



Original Peak Response = 572256920



Manual Peak Response = 569497562 M4

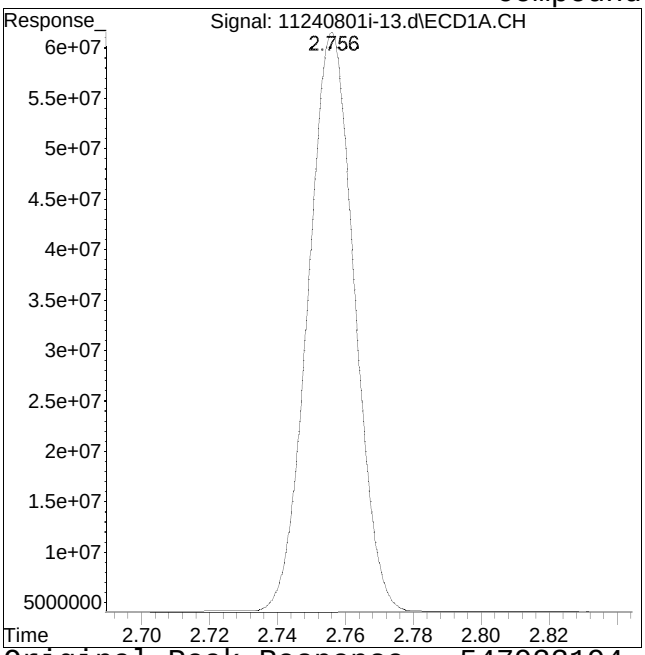
M4 = Poor automated baseline construction.

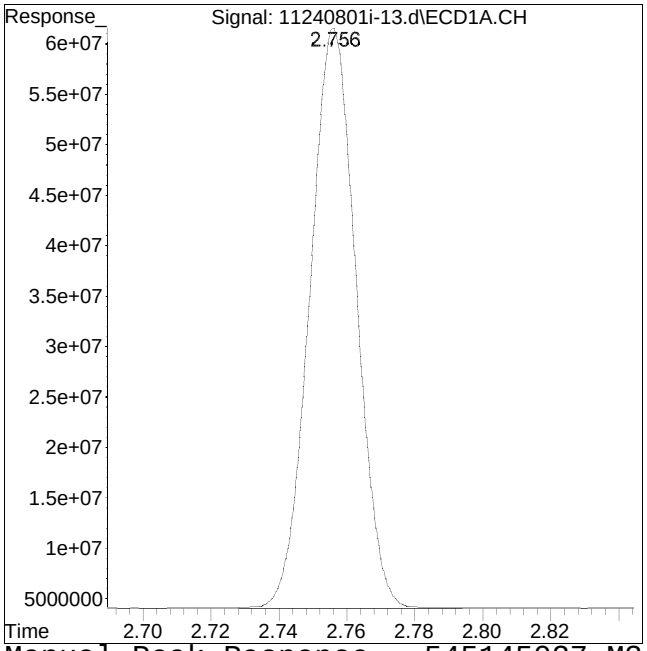
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #9: Aldrin





Original Peak Response = 547933194 Manual Peak Response = 545145027 M3

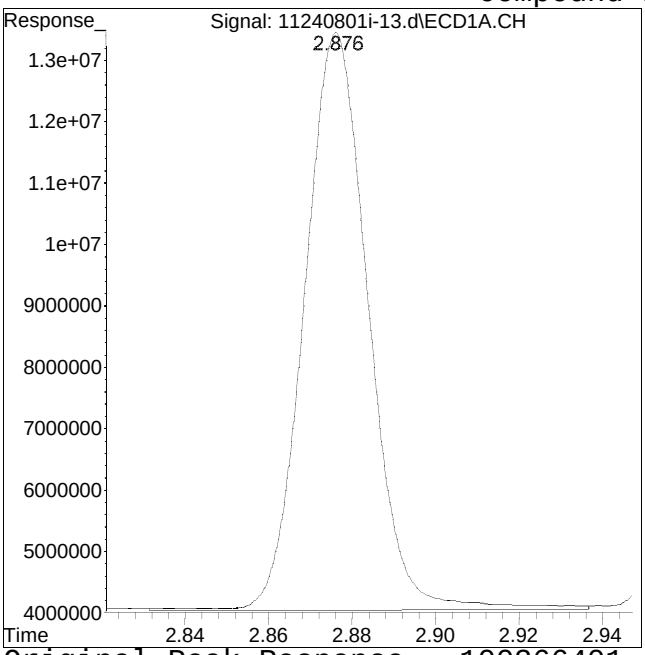
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

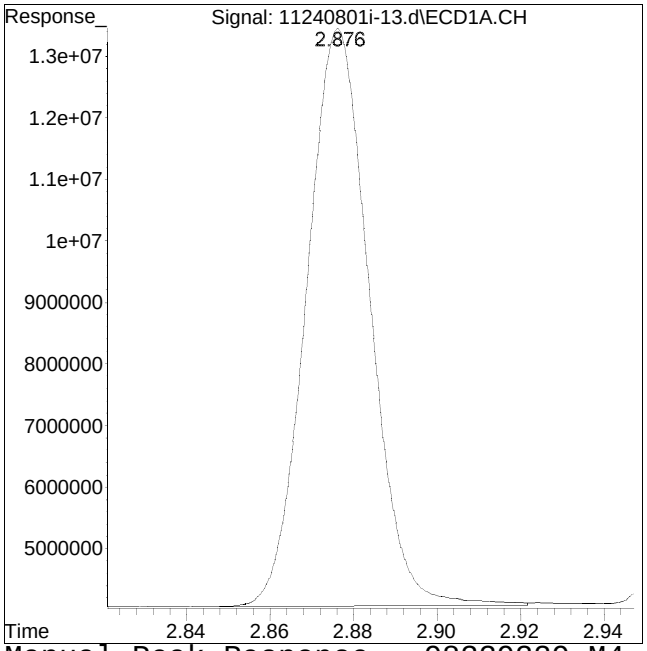
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #10: Alachlor



Original Peak Response = 100366401



Manual Peak Response = 98339329 M4

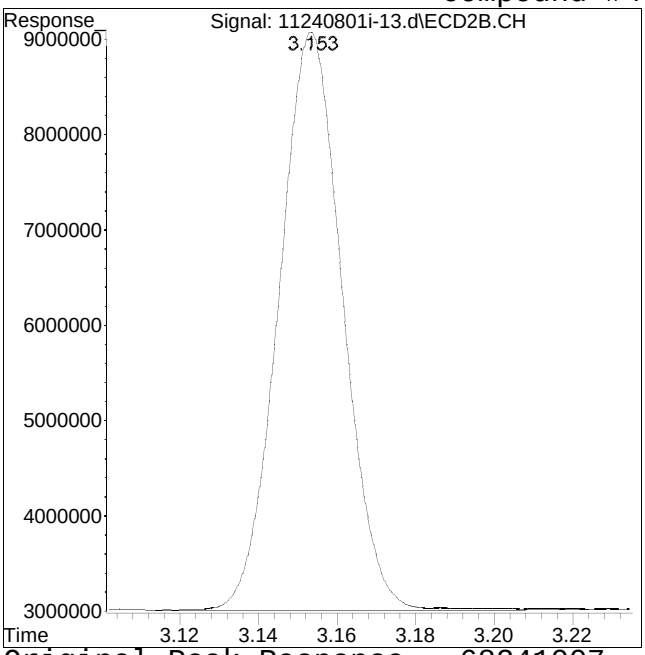
M4 = Poor automated baseline construction.

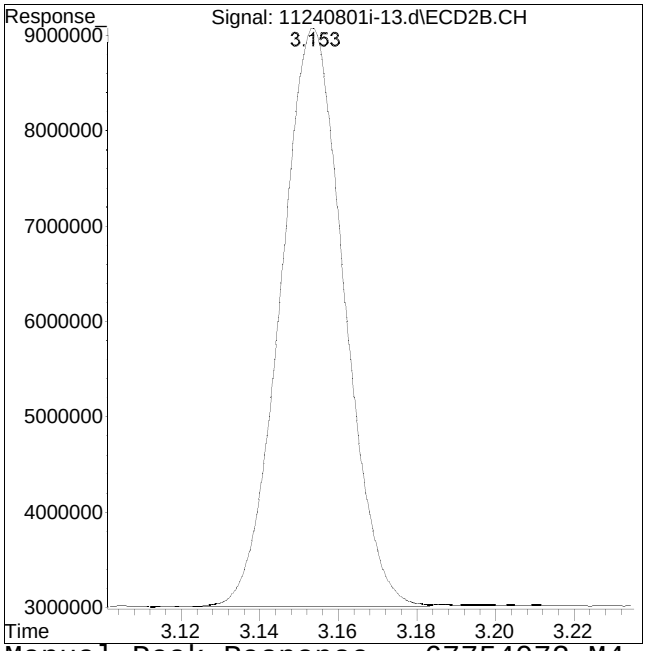
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #48: Alachlor #2



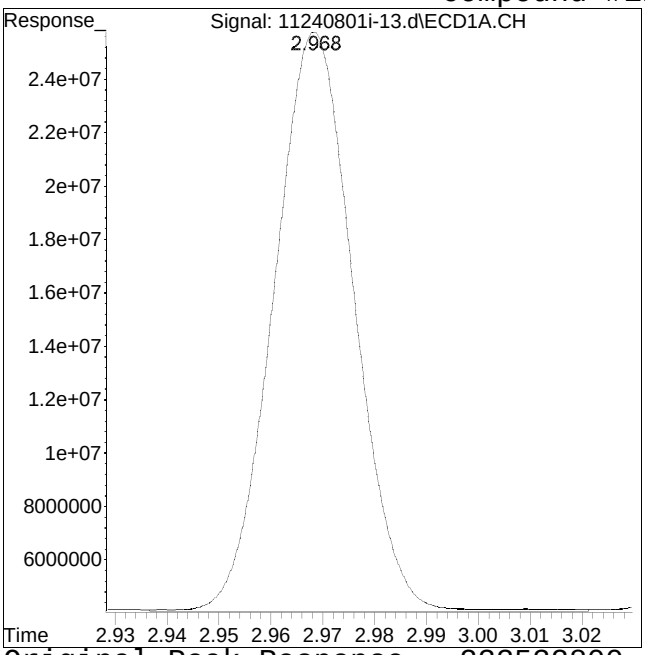


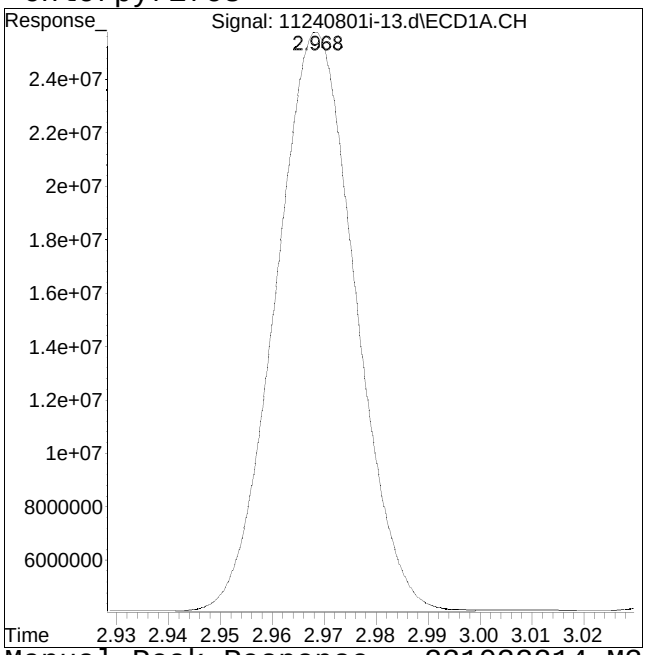
Original Peak Response = 68241007 Manual Peak Response = 67754072 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #11: Chlorpyrifos





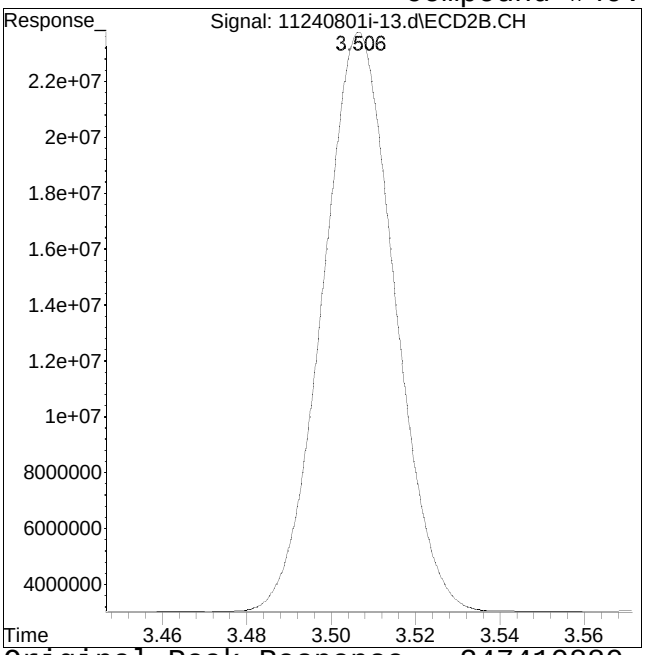
Original Peak Response = 233532800 Manual Peak Response = 231032214 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

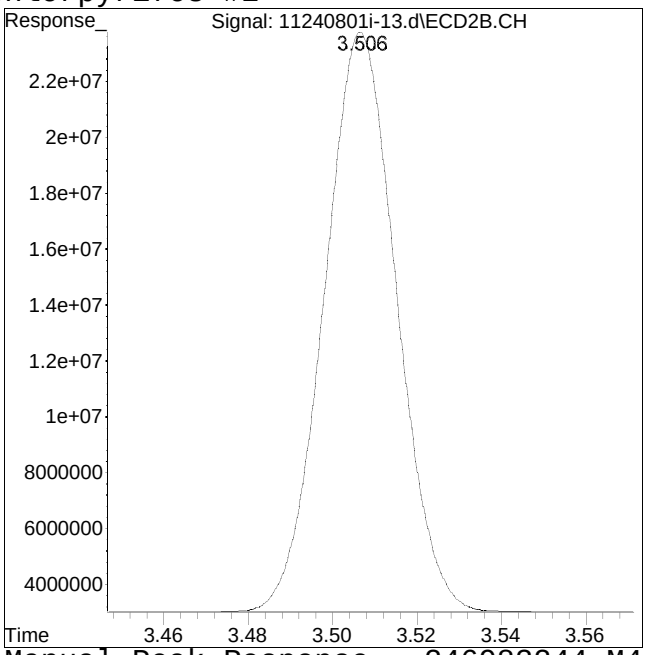
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 247410880



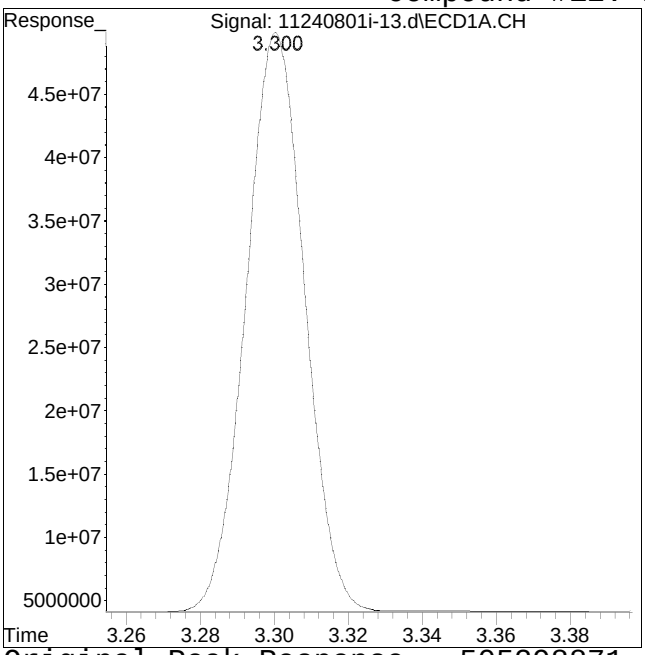
Manual Peak Response = 246983244 M4

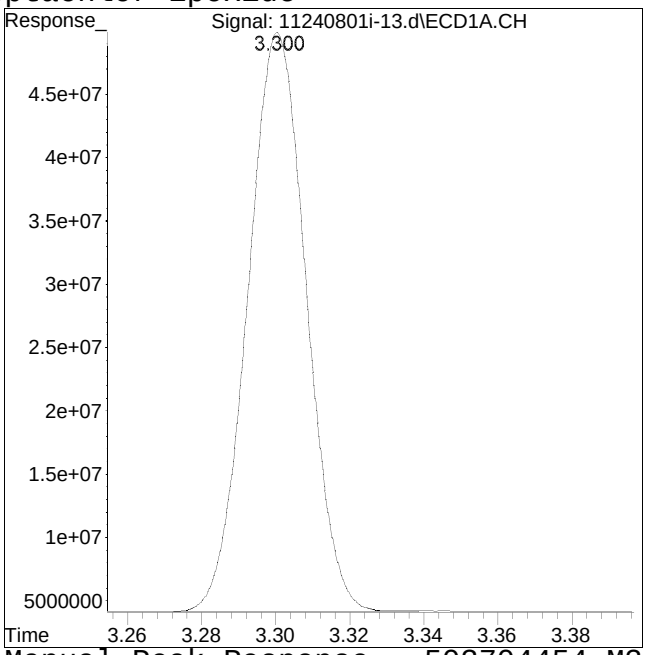
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #12: Heptachlor Epoxide





Original Peak Response = 505298871 Manual Peak Response = 503704454 M3

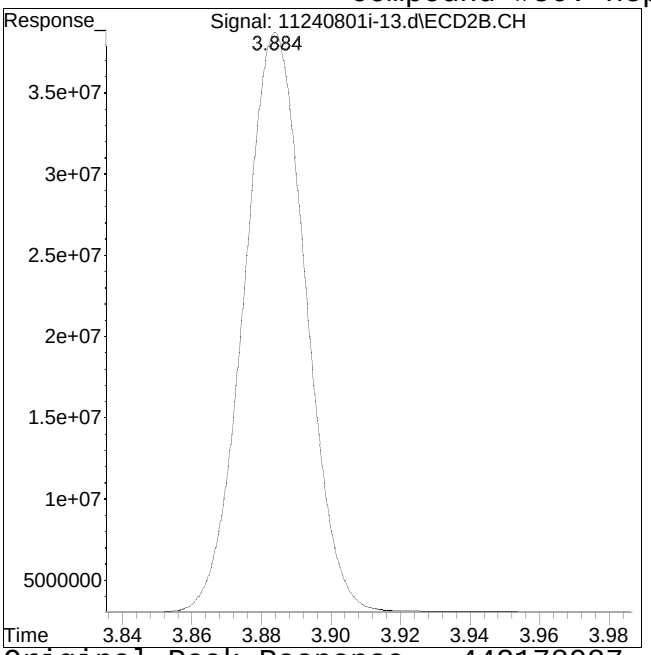
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

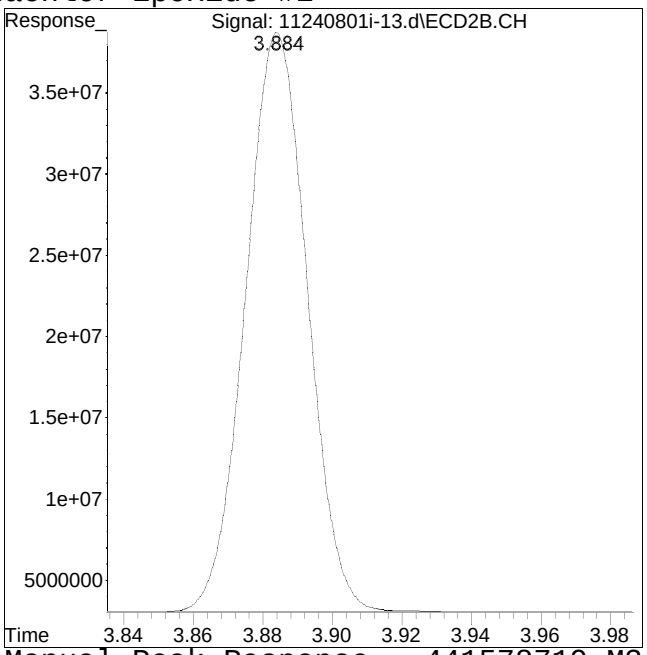
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #50: Heptachlor Epoxide #2





Original Peak Response = 442178987 Manual Peak Response = 441578719 M3

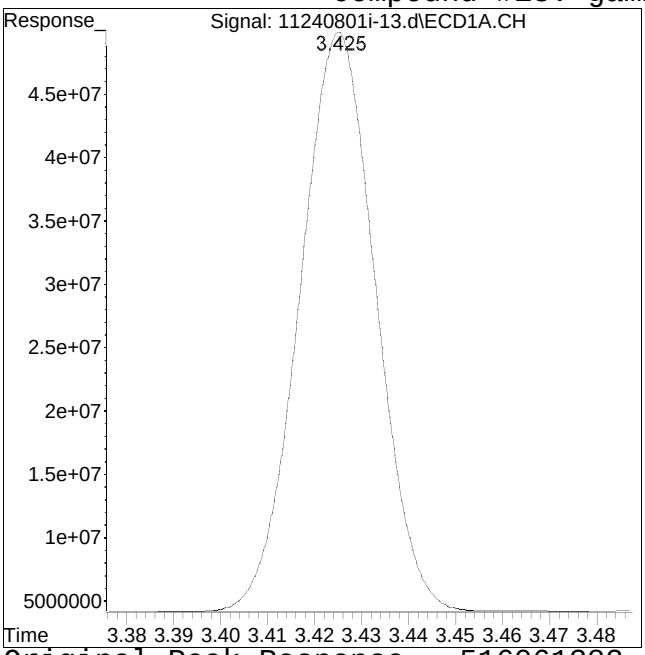
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

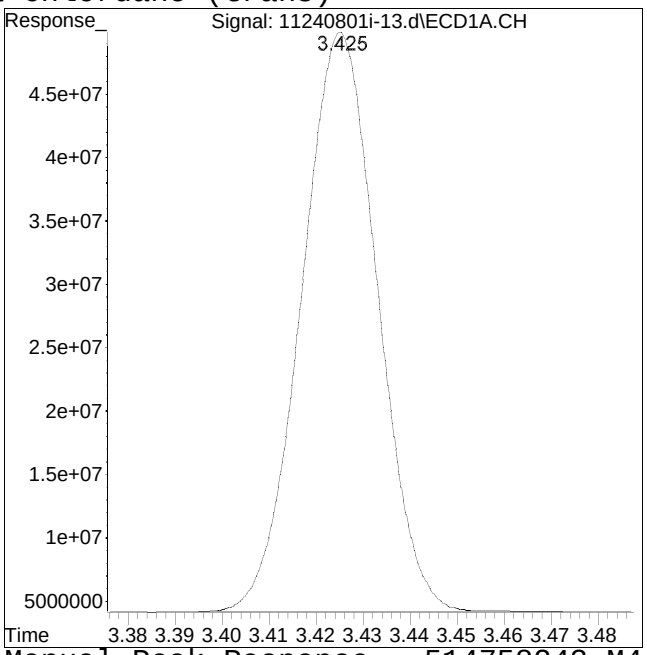
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 516061382



Manual Peak Response = 514758243 M4

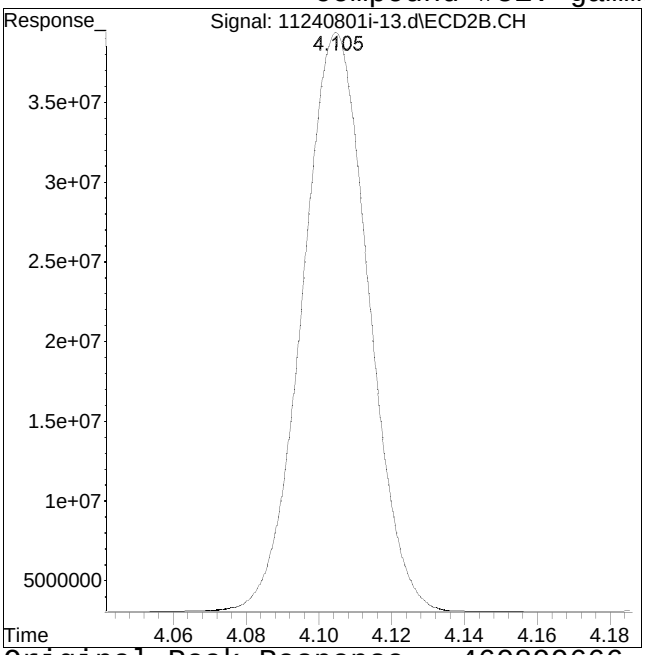
M4 = Poor automated baseline construction.

Manual Integration Report

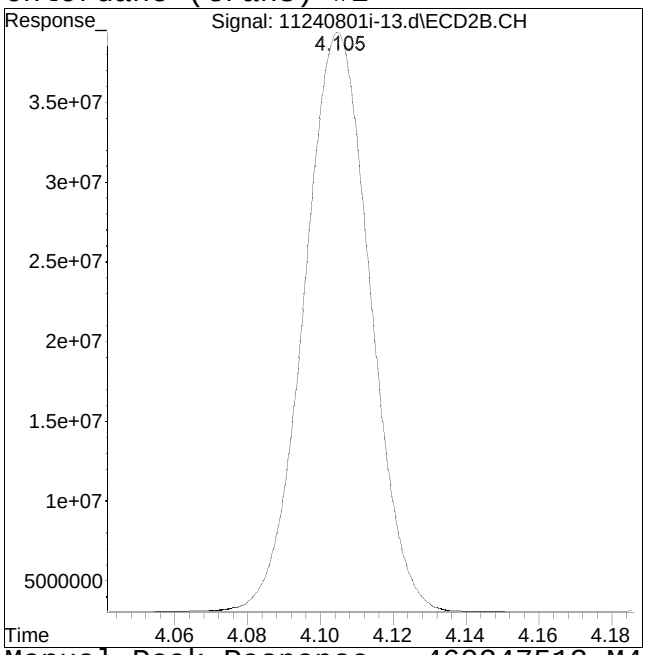
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 460899666



Manual Peak Response = 460247513 M4

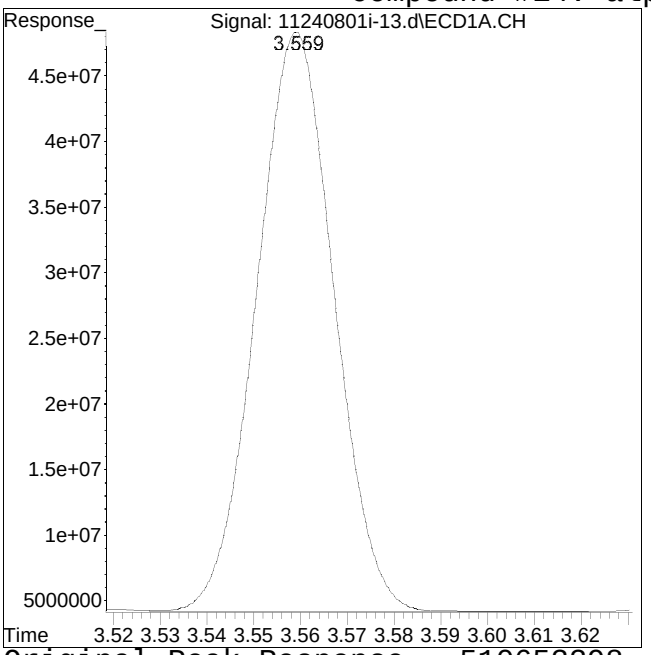
M4 = Poor automated baseline construction.

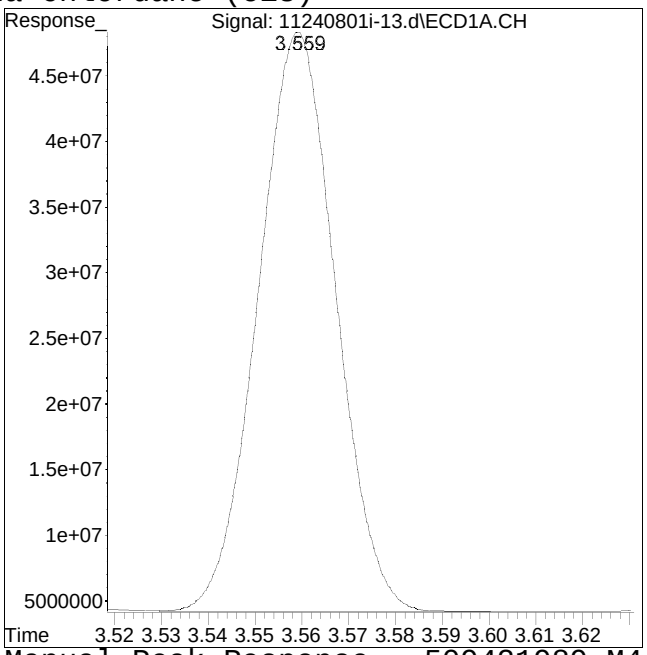
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #14: alpha-Chlordane (cis)





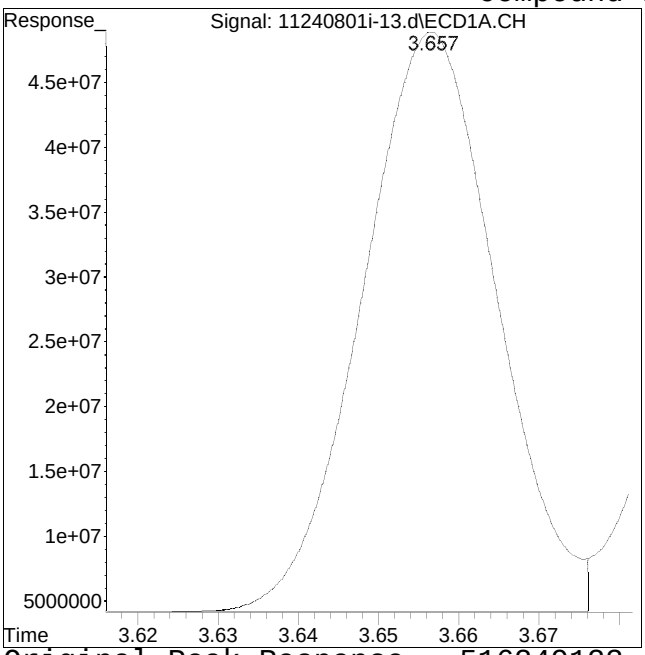
Original Peak Response = 510653398 Manual Peak Response = 509421989 M4
M4 = Poor automated baseline construction.

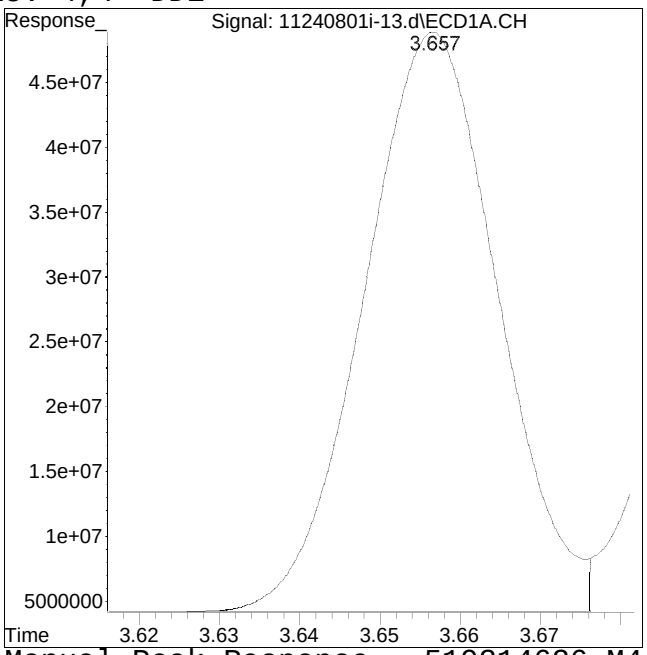
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #15: 4,4'-DDE



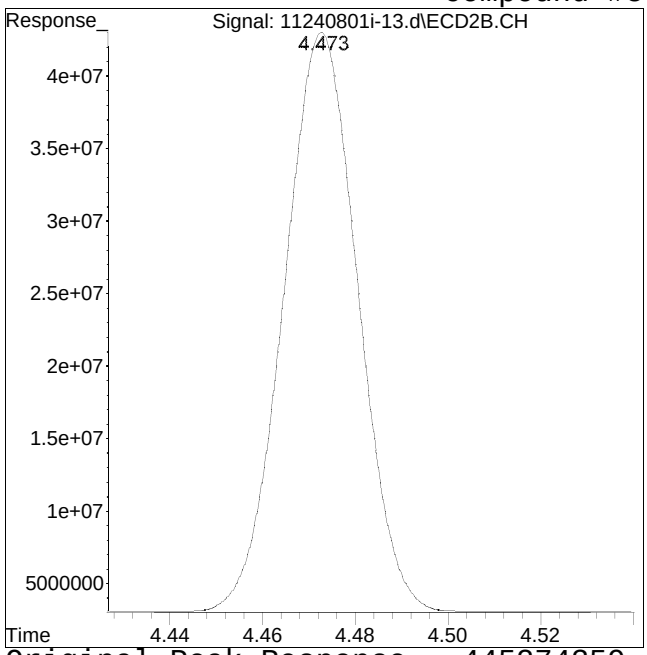


Original Peak Response = 516249123 Manual Peak Response = 519314626 M4
M4 = Poor automated baseline construction.

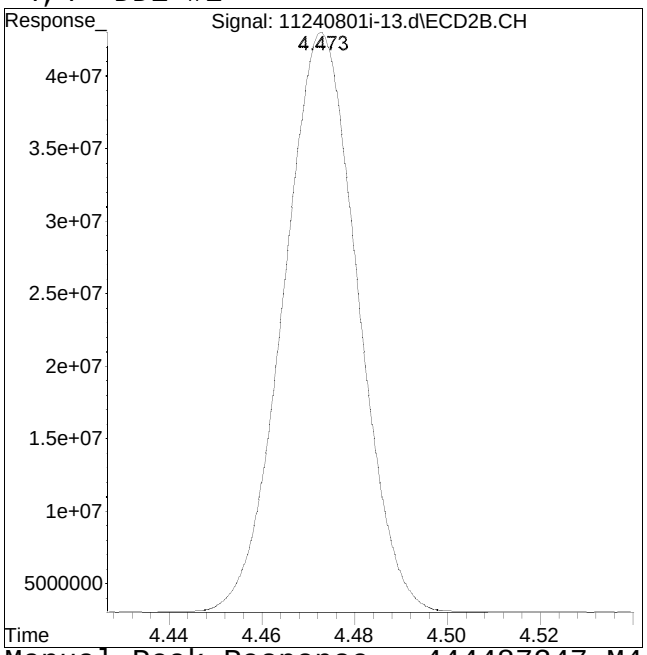
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 445274359



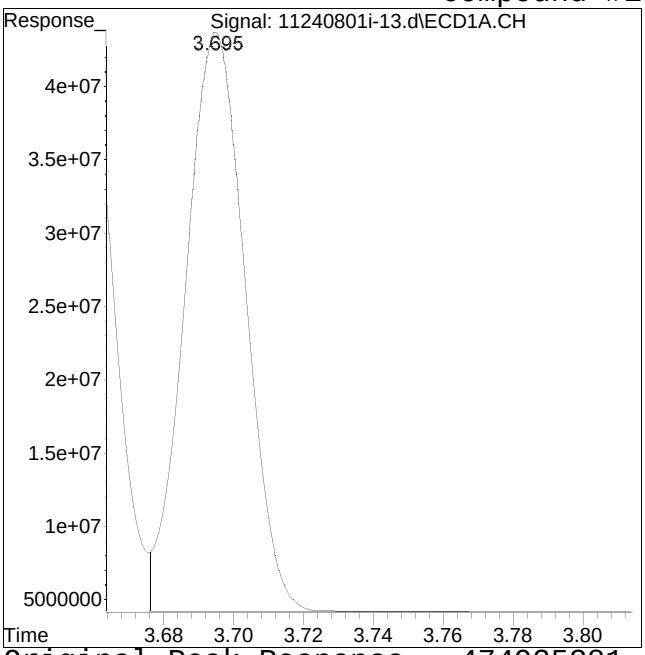
Manual Peak Response = 444487347 M4

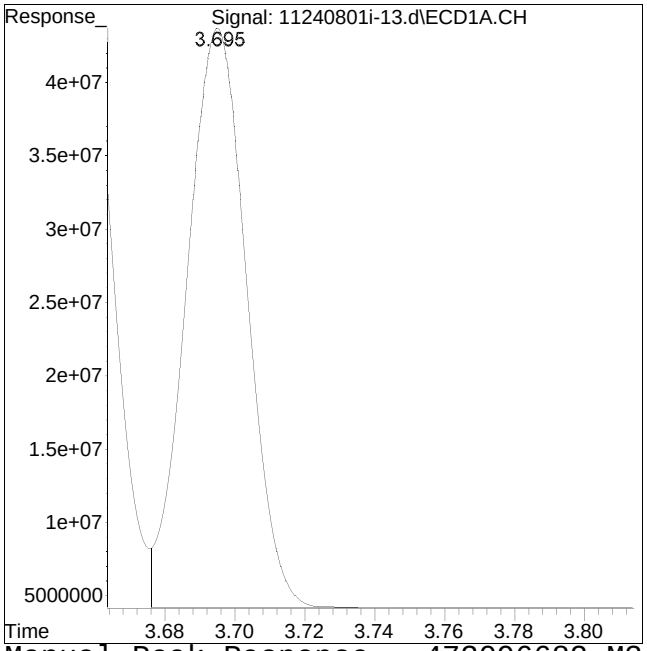
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #16: Endosulfan I





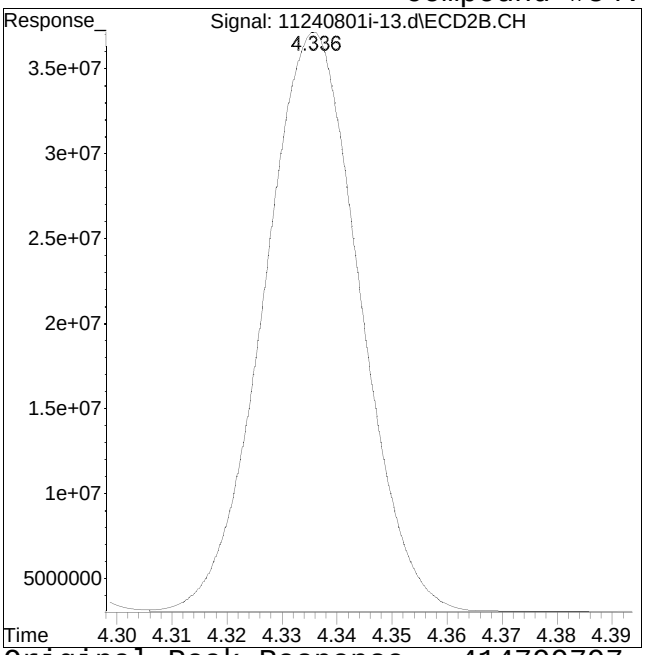
Original Peak Response = 474925381 Manual Peak Response = 473096682 M3

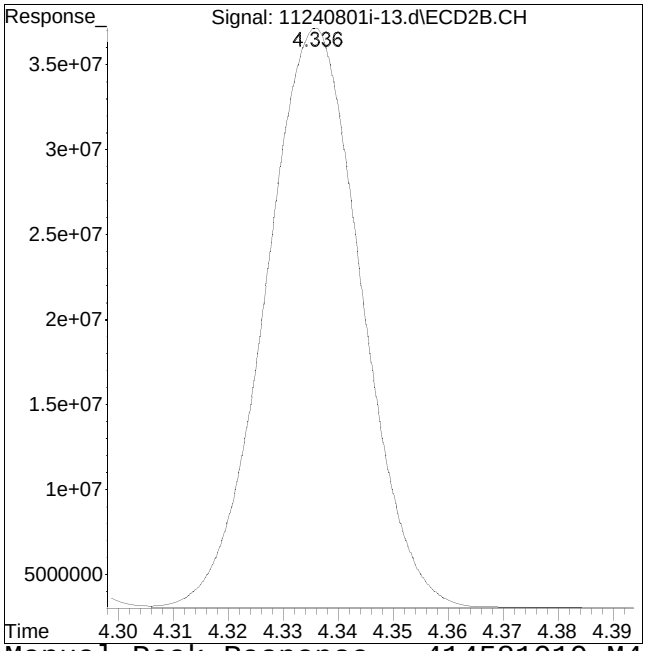
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #54: Endosulfan I #2





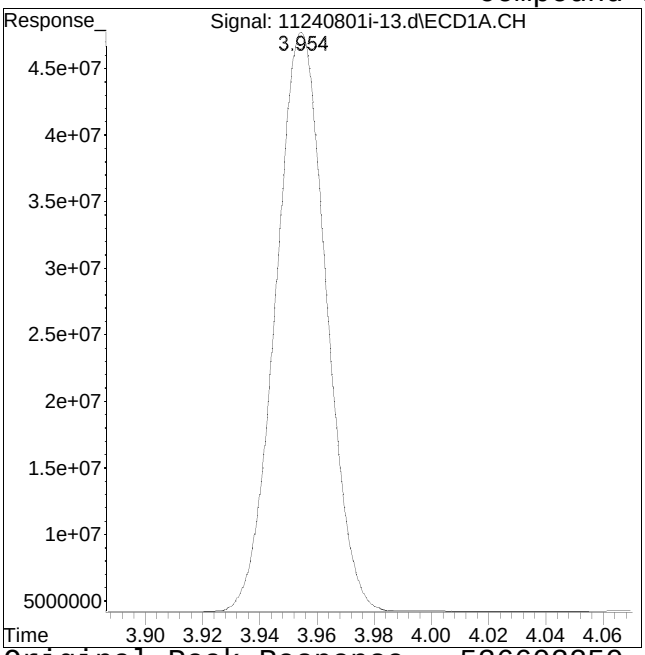
Original Peak Response = 414799797 Manual Peak Response = 414581010 M4
M4 = Poor automated baseline construction.

Manual Integration Report

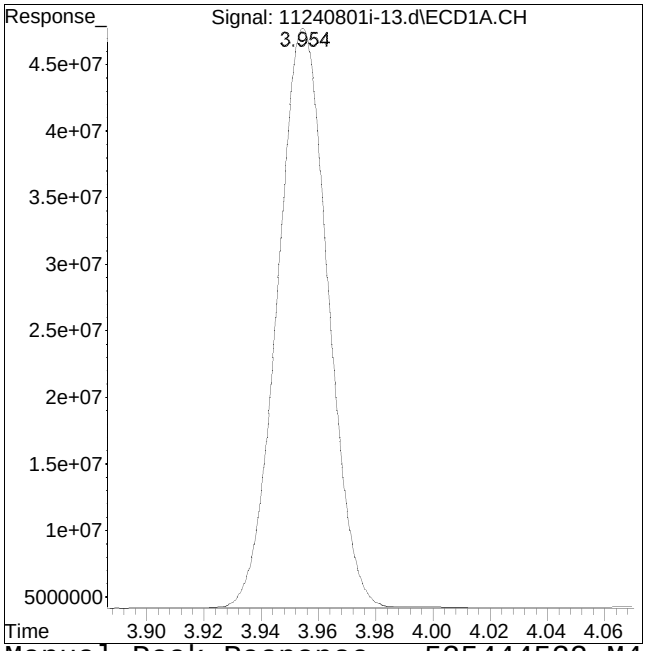
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #17: Dieldrin



Original Peak Response = 536602250



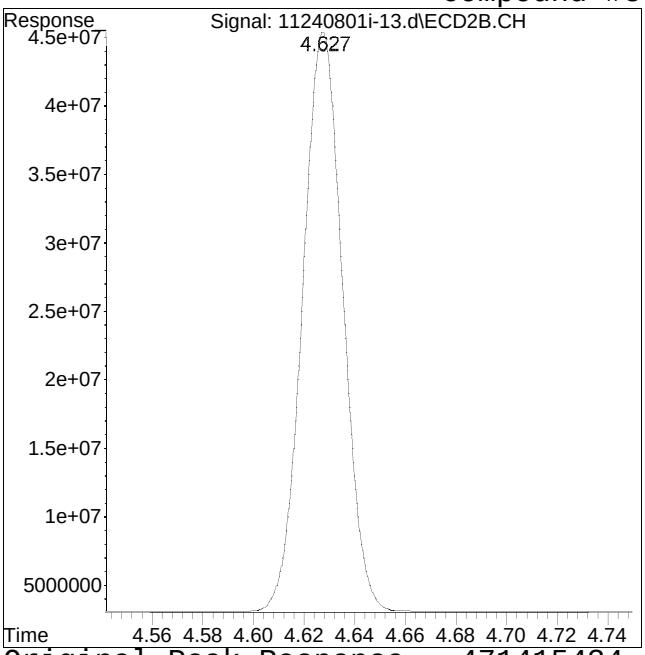
Manual Peak Response = 535444532 M4

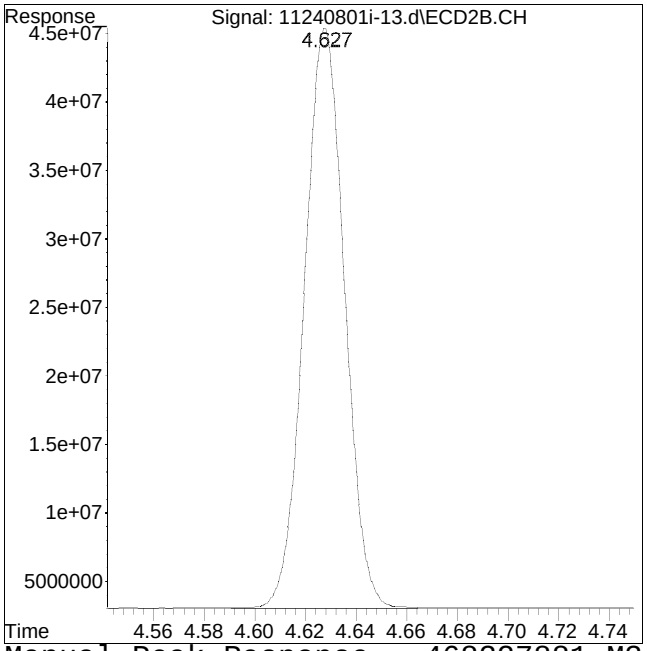
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #55: Dieldrin #2





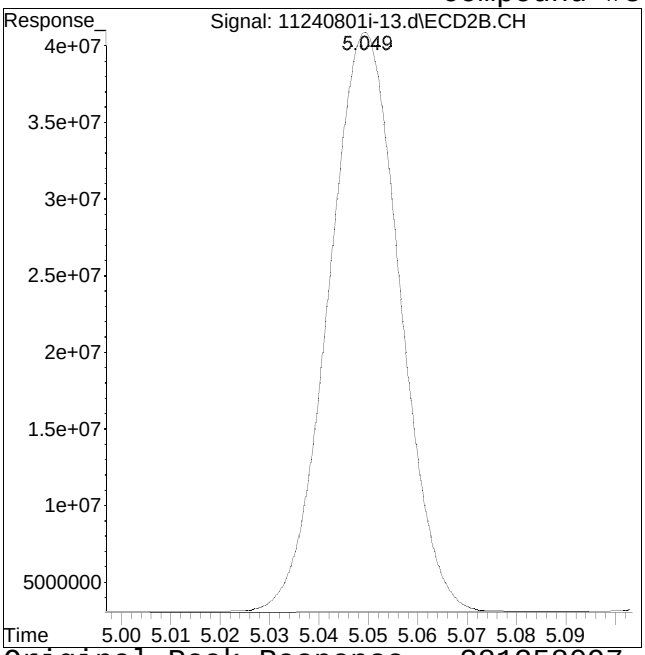
Original Peak Response = 471415434 Manual Peak Response = 468327881 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

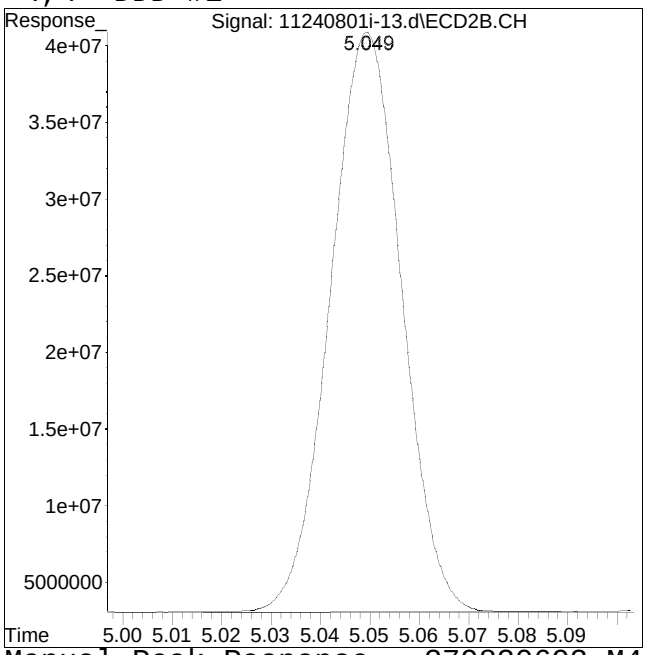
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 381358097



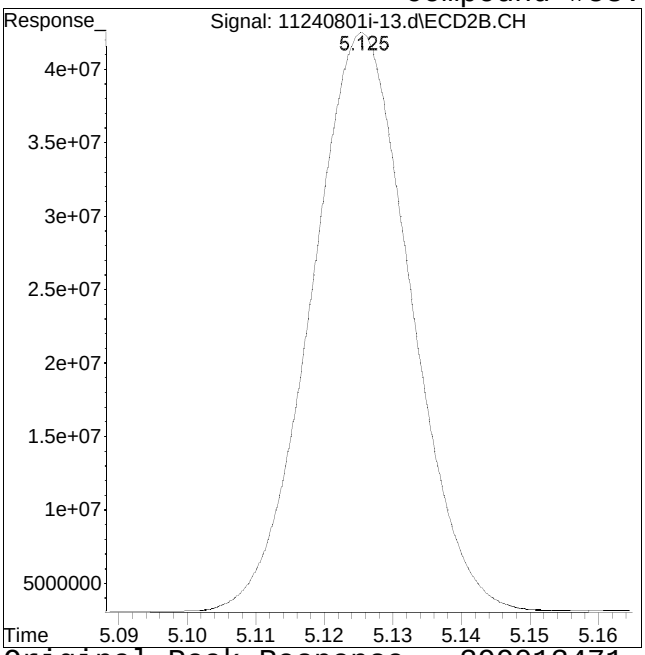
Manual Peak Response = 379830693 M4

M4 = Poor automated baseline construction.

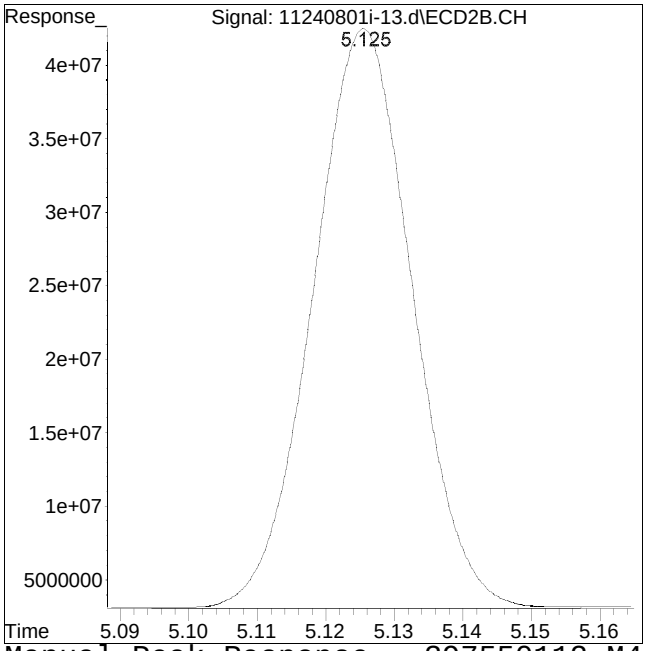
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #58: Endosulfan II #2



Original Peak Response = 399013471



Manual Peak Response = 397550112 M4

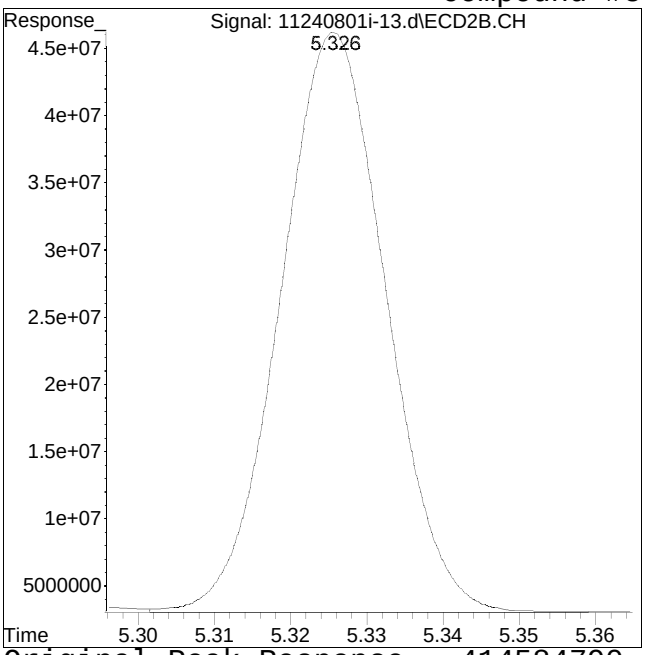
M4 = Poor automated baseline construction.

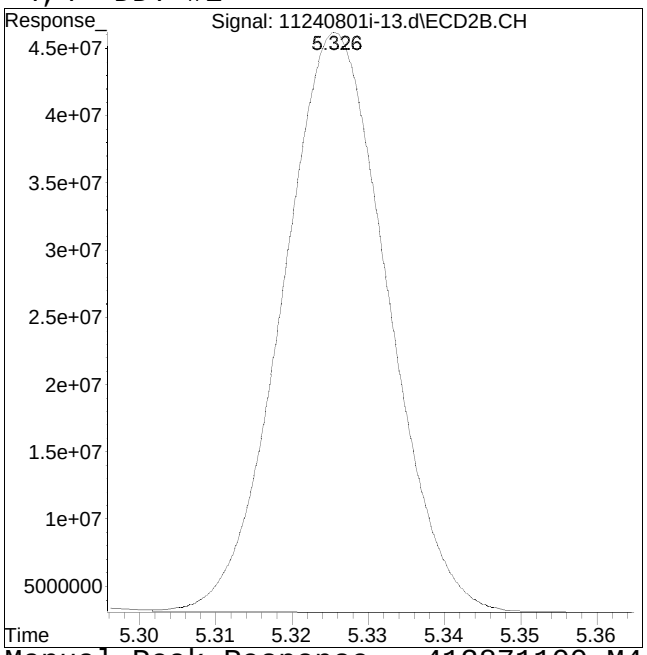
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #59: 4,4'-DDT #2





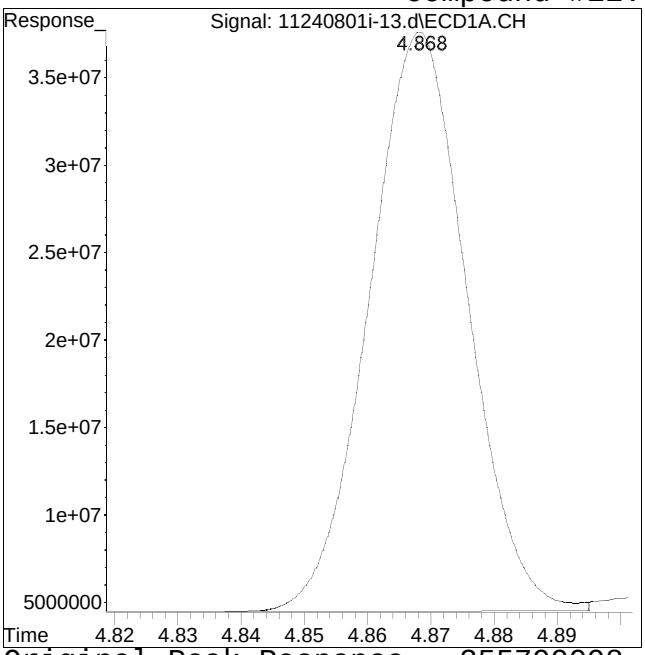
Original Peak Response = 414584790 Manual Peak Response = 412871100 M4
M4 = Poor automated baseline construction.

Manual Integration Report

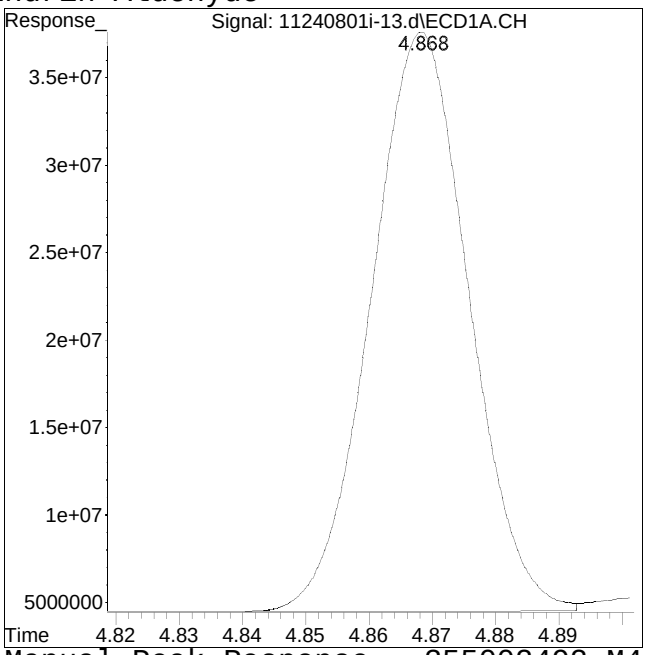
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #22: Endrin Aldehyde



Original Peak Response = 355799998



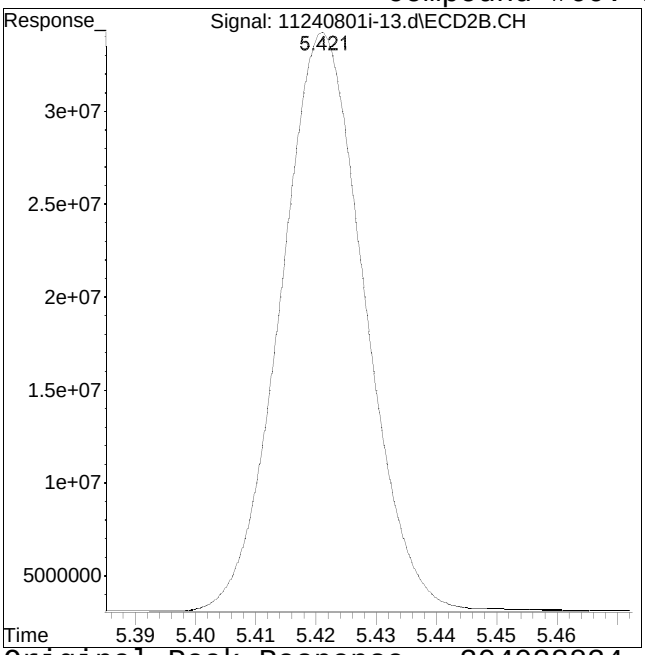
Manual Peak Response = 355002492 M4

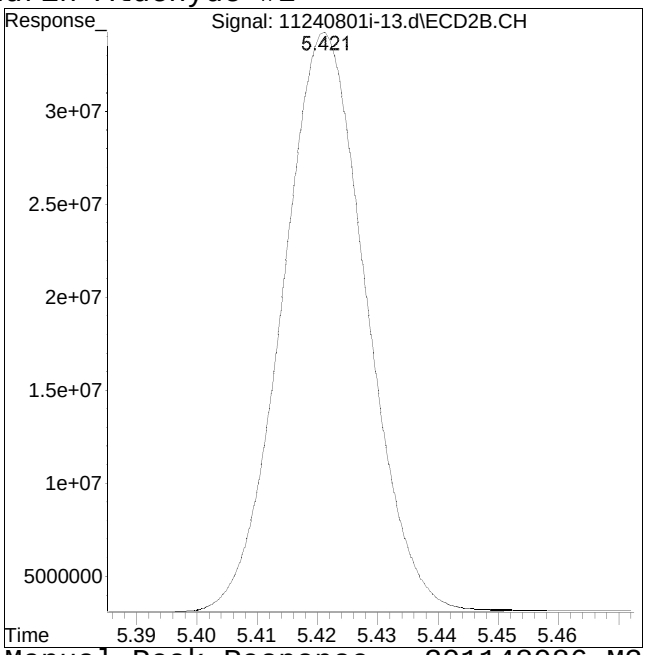
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #60: Endrin Aldehyde #2





Original Peak Response = 304028834 Manual Peak Response = 301148086 M3

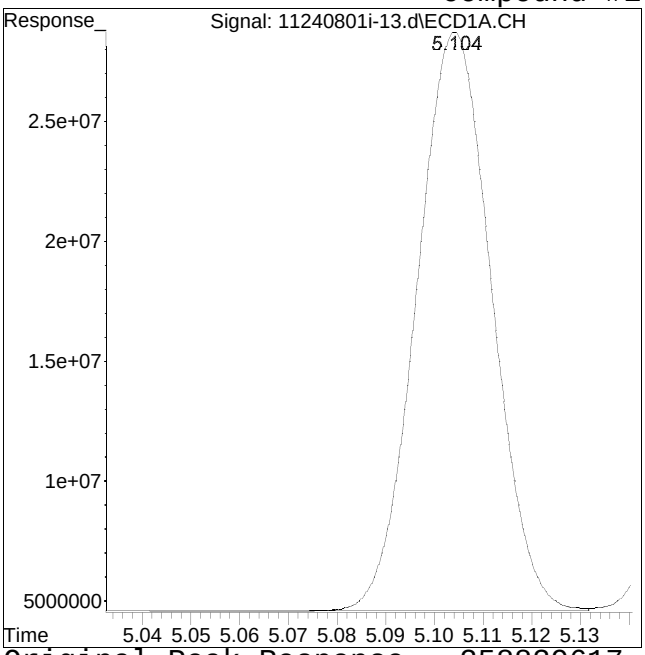
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

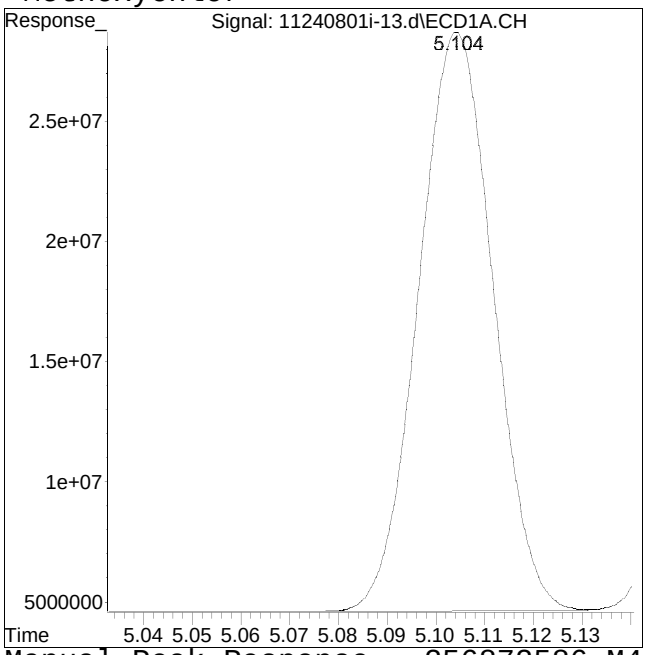
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #23: Methoxychlor



Original Peak Response = 258839617



Manual Peak Response = 256872586 M4

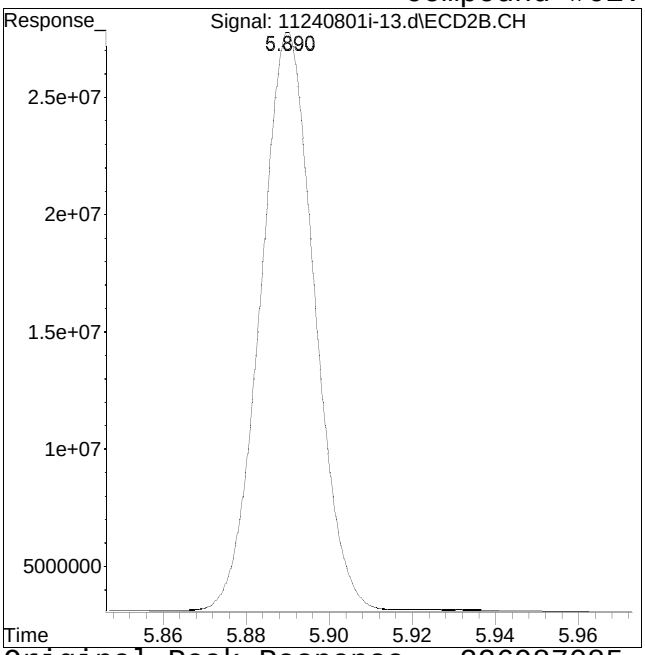
M4 = Poor automated baseline construction.

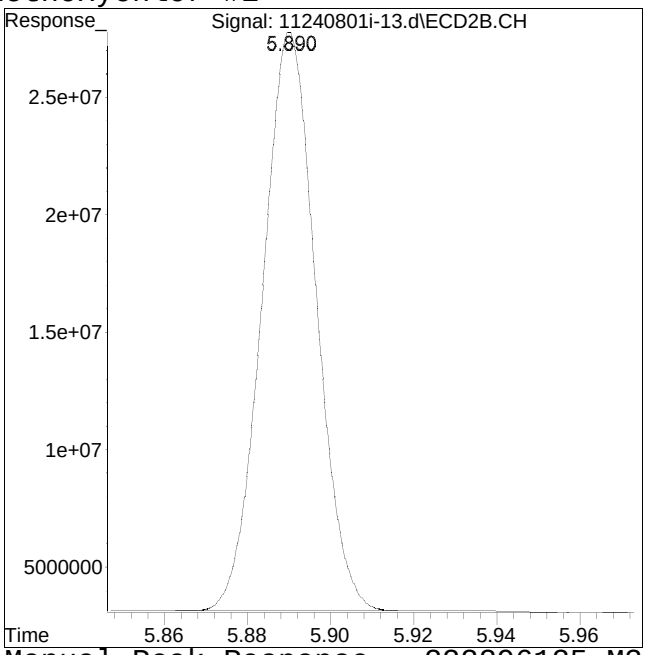
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #61: Methoxychlor #2





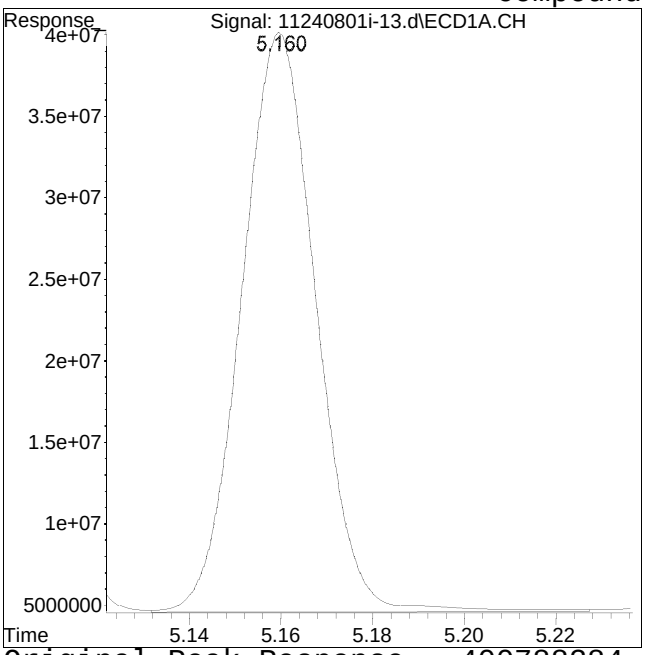
Original Peak Response = 226987085 Manual Peak Response = 222296125 M3

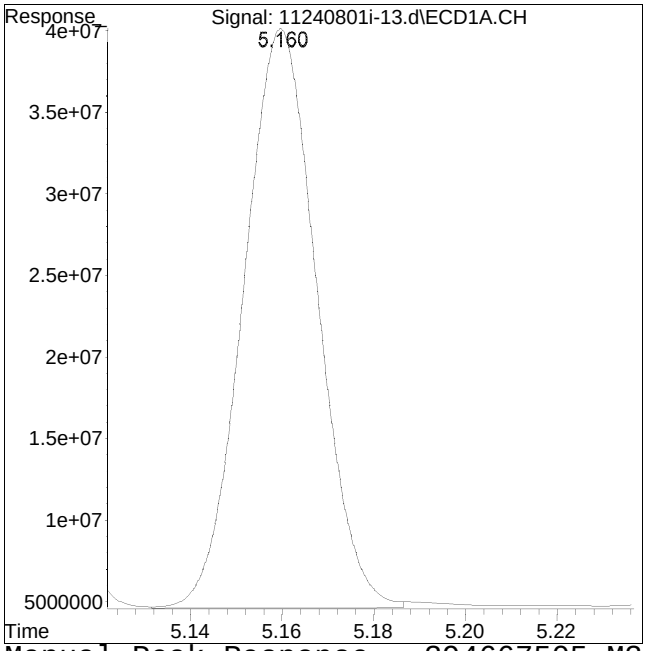
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #24: Mirex





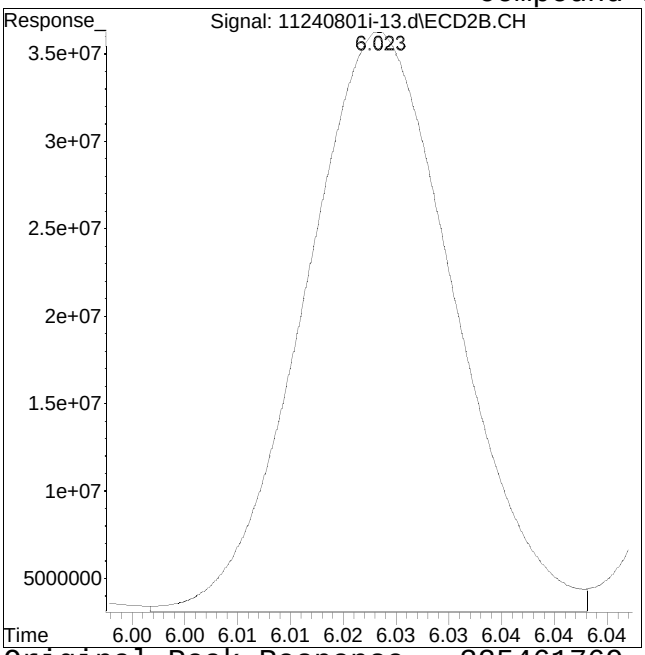
Original Peak Response = 400788384 Manual Peak Response = 394667505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

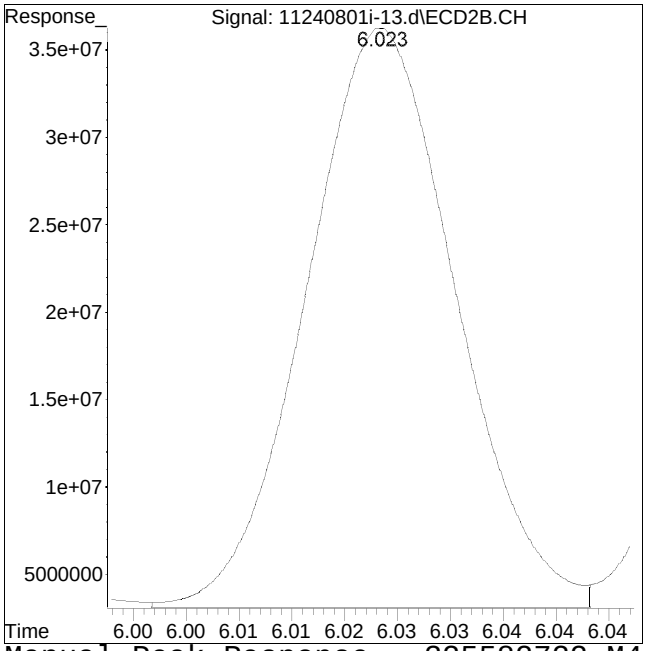
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #62: Mirex #2



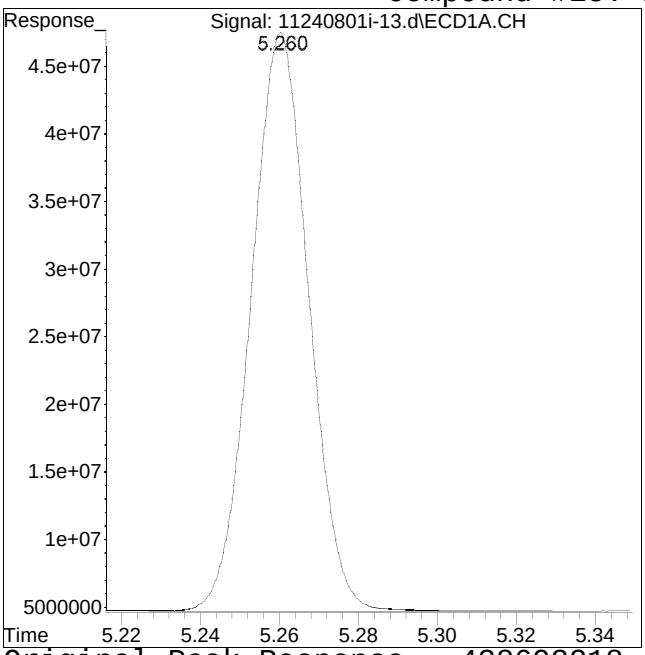


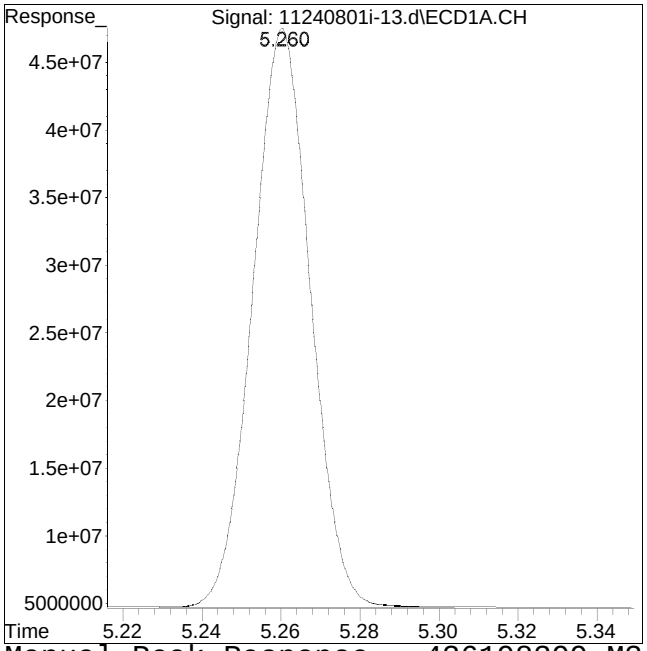
Original Peak Response = 325461769 Manual Peak Response = 325582722 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #25: Endosulfan Sulfate





Original Peak Response = 438692218 Manual Peak Response = 436198399 M3

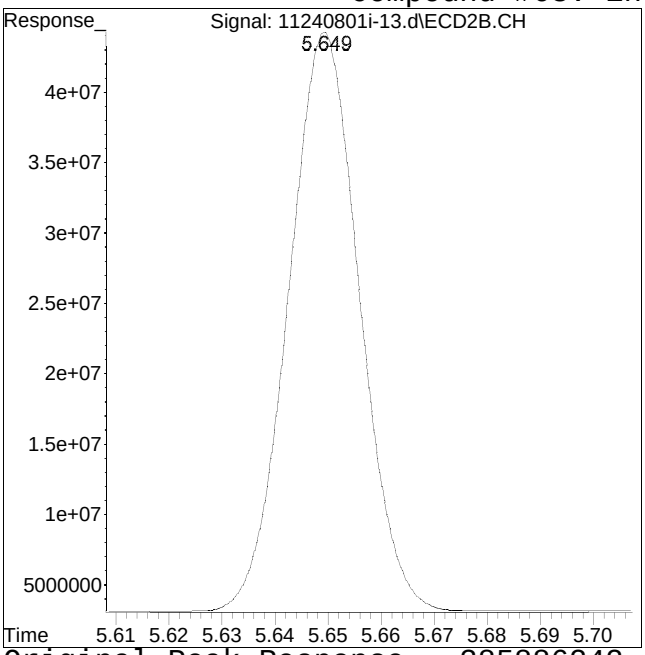
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

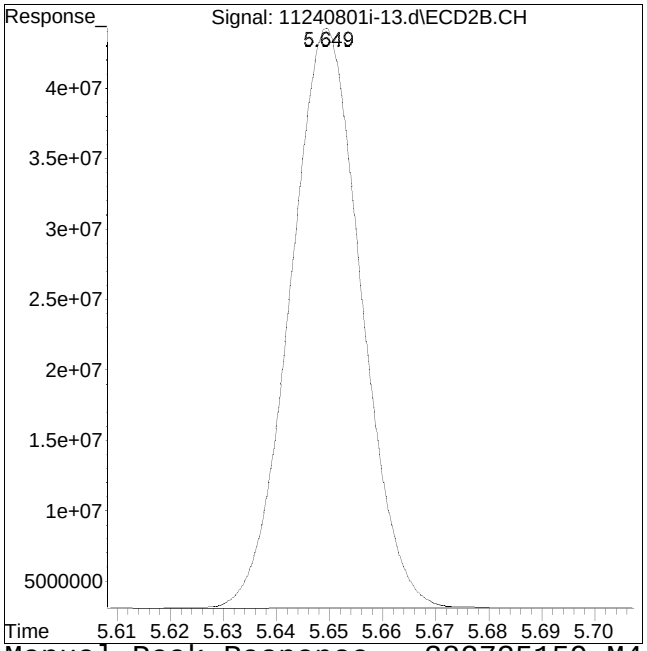
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #63: Endosulfan Sulfate #2



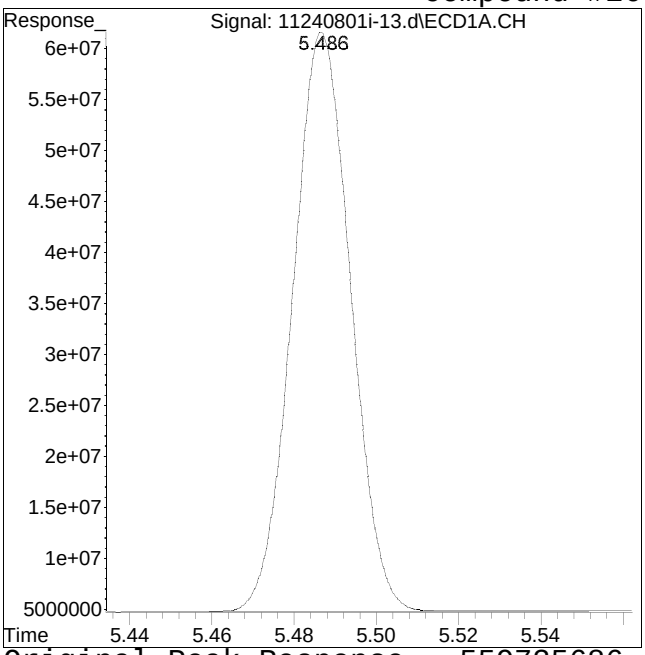


Original Peak Response = 385886242 Manual Peak Response = 382735159 M4
M4 = Poor automated baseline construction.

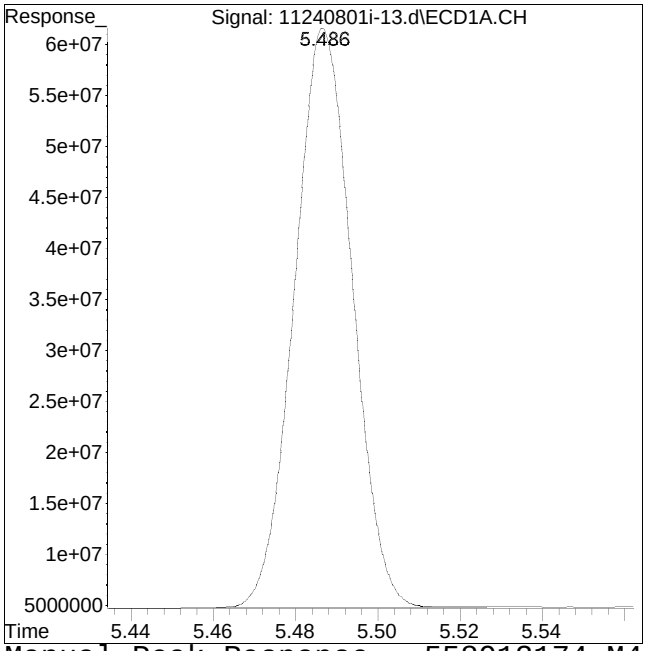
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-13.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 20:36 Instrument : Pest 11
Sample : cicvpest,42e,,pp 11675 L0.Quant Date : 8/2/2024 11:49 am

Compound #26: Endrin Ketone



Original Peak Response = 559735686



Manual Peak Response = 558913174 M4

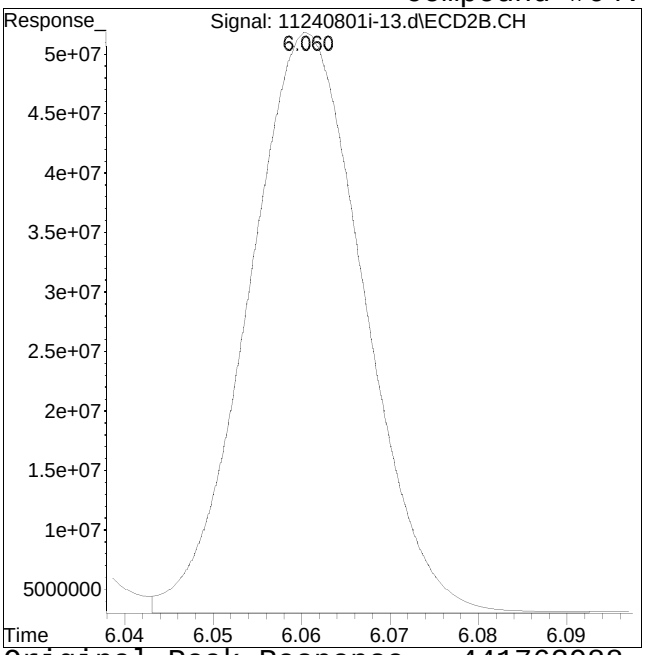
M4 = Poor automated baseline construction.

Manual Integration Report

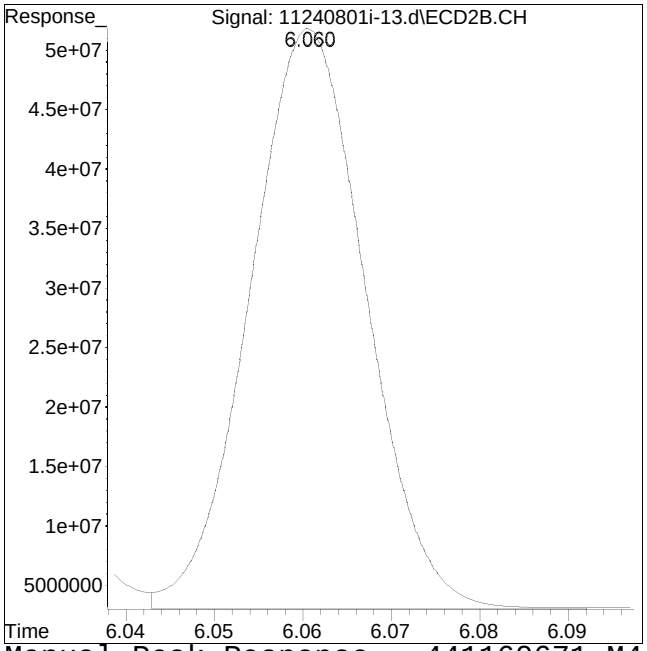
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #64: Endrin Ketone #2



Original Peak Response = 441763988



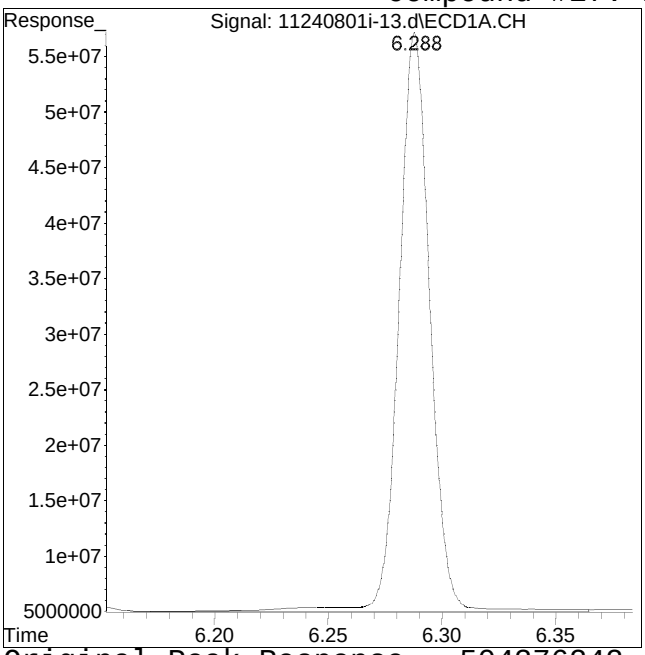
Manual Peak Response = 441160671 M4

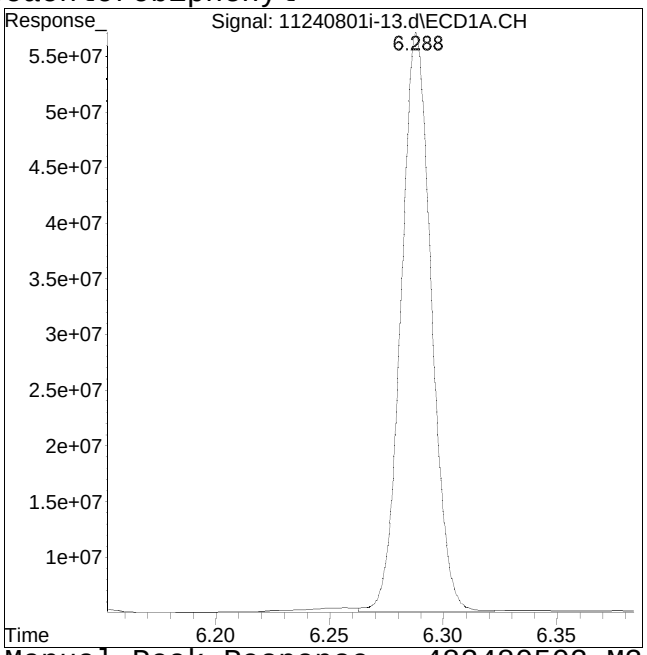
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #27: Decachlorobiphenyl





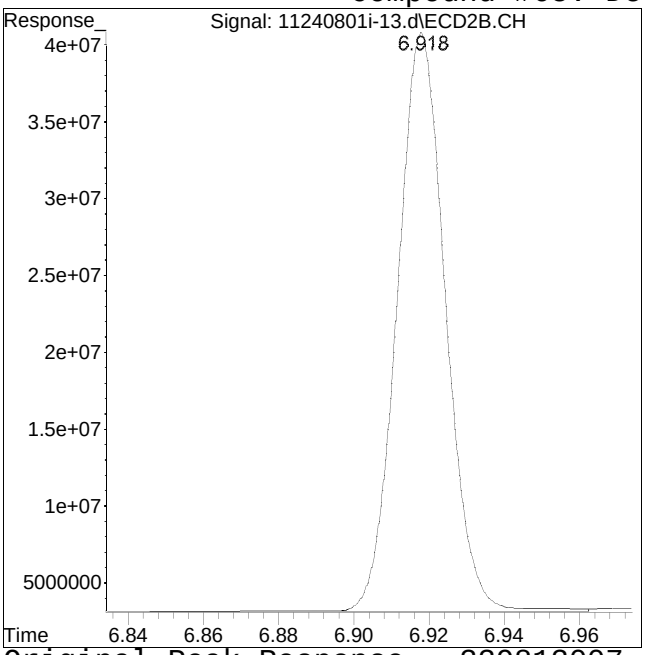
Original Peak Response = 504376242 Manual Peak Response = 482480502 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

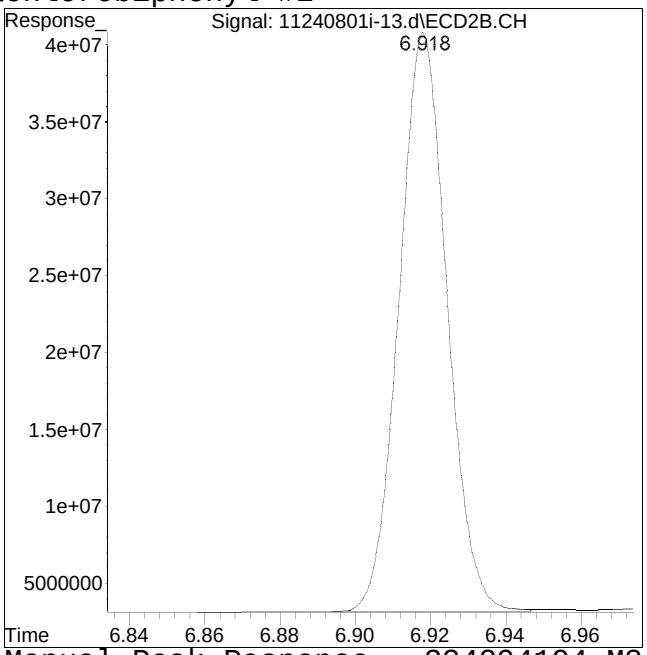
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-13.d
Date Inj'd : 8/1/2024 20:36
Sample : cicvpest,42e,,pp 11675 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:49 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 339813007 Manual Peak Response = 334294194 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	221.9E6	176.1E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	3348778	3797653	10.230	12.954
30) l1	chlordane-3	2.868	3.423	4387652	4962525	10.696M4	14.420
31) l1	chlordane-4	3.425	4.104	14578311	14683745	10.355	12.473
32) l1	chlordane-5	3.553	4.275	21582458	11409156	9.913	12.528
Sum	chlordane-1			43897199	34853078	NoCal	NoCal D
Average	chlordane-1					10.299	13.094
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

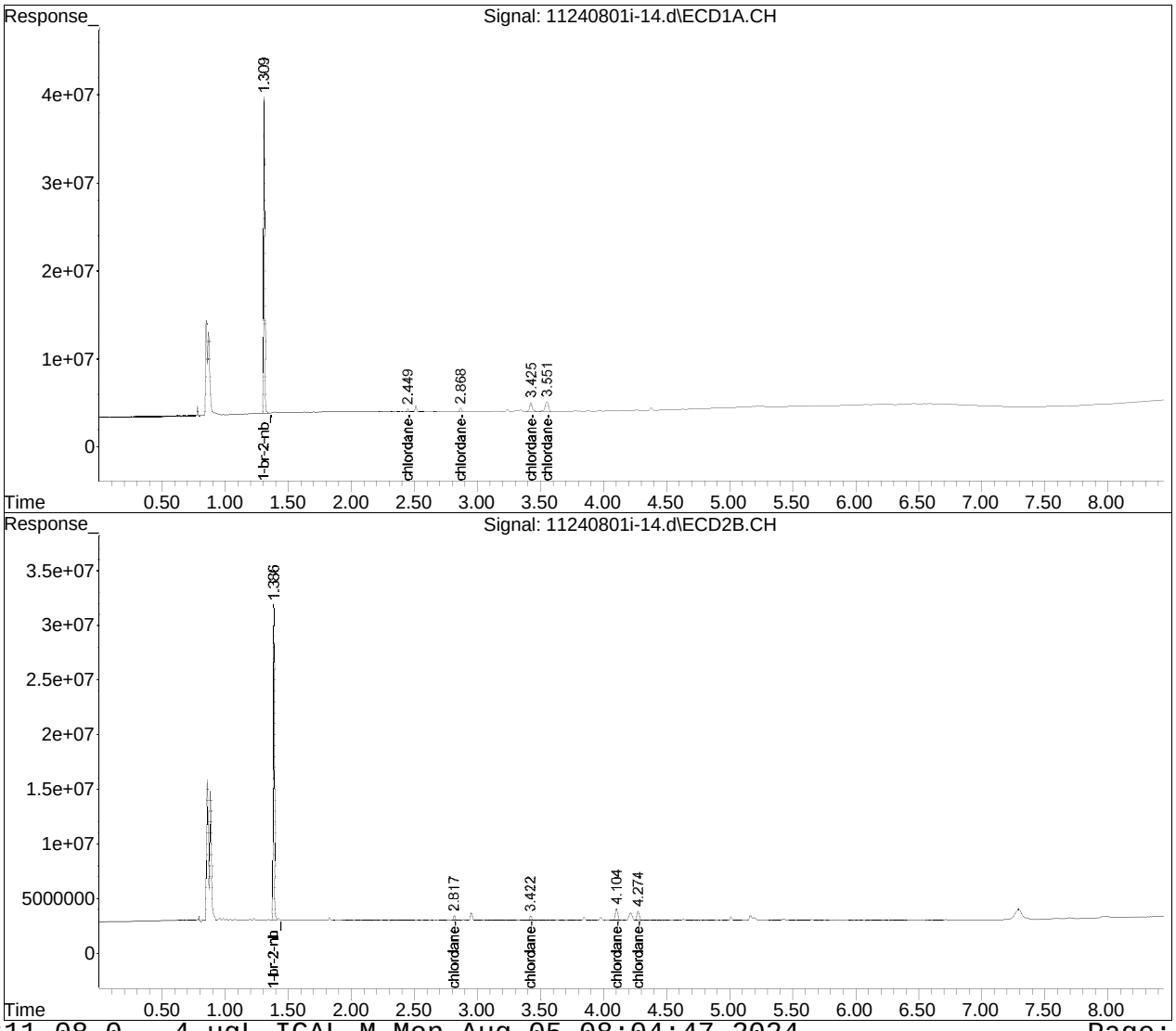
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 20:48
Operator : PEST11:ejl
Sample : il3chlor,42e,,pp 11694 L0.01
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:13:06 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:12:45 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

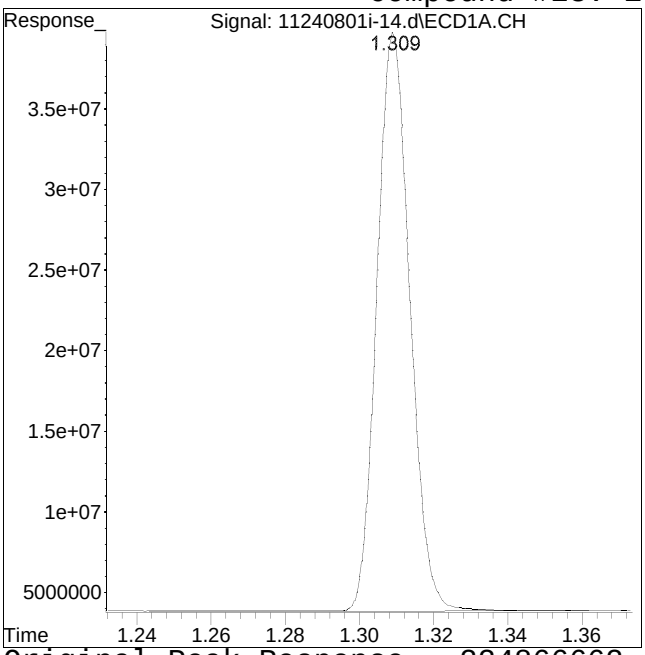


Manual Integration Report

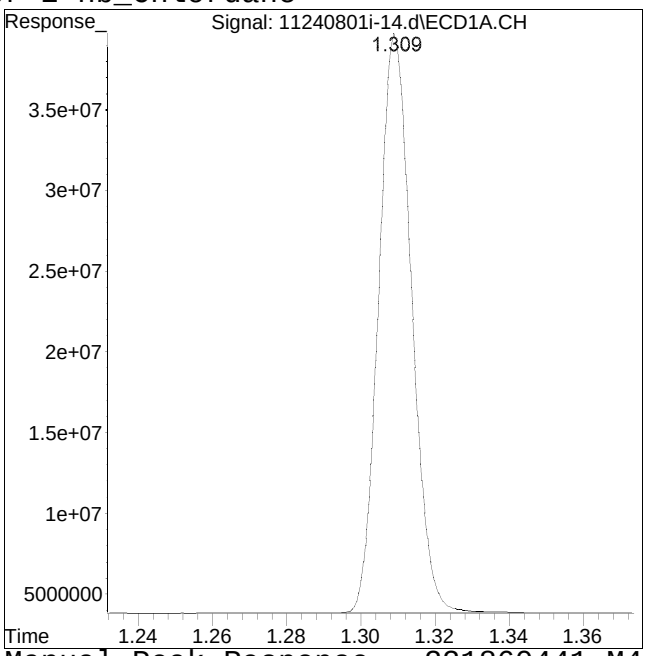
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 224866662



Manual Peak Response = 221860441 M4

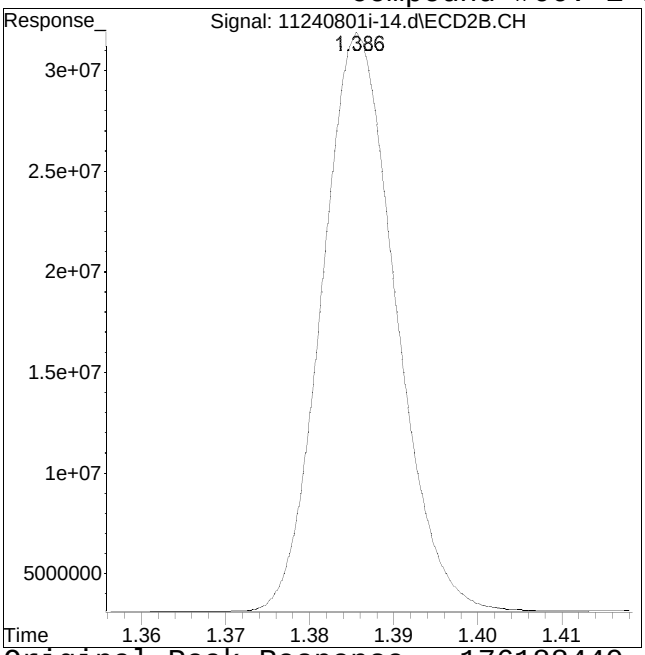
M4 = Poor automated baseline construction.

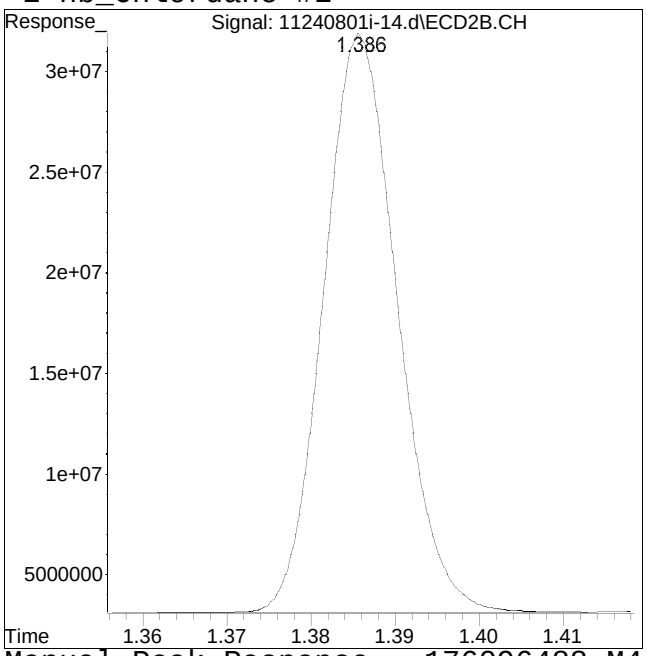
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #66: 1-br-2-nb_Chlordane #2





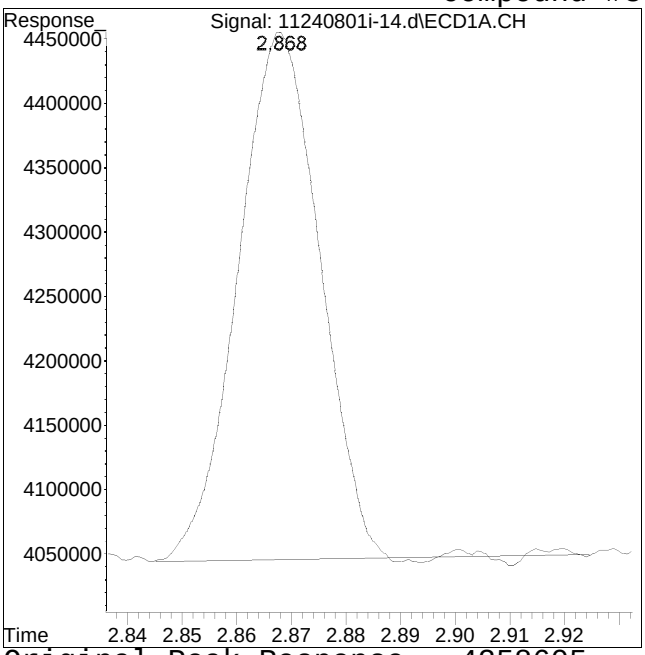
Original Peak Response = 176188440 Manual Peak Response = 176096488 M4
M4 = Poor automated baseline construction.

Manual Integration Report

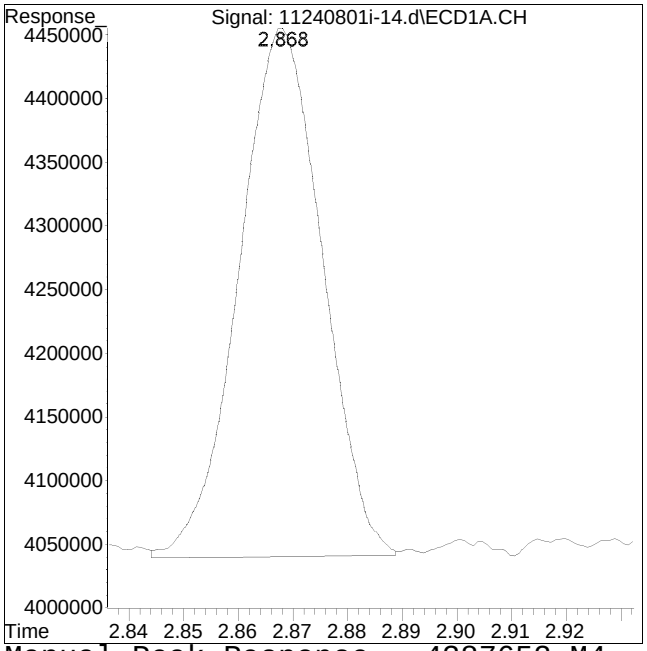
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-14.d
Date Inj'd : 8/1/2024 20:48
Sample : il3chlor,42e,,pp 11694 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:13 pm

Compound #30: chlordane-3



Original Peak Response = 4258605



Manual Peak Response = 4387652 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	215.7E6	175.4E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	6270200	7260829	19.646	26.129
30) l1	chlordane-3	2.869	3.422	9042606	9017445	23.300	28.067M4
31) l1	chlordane-4	3.426	4.105	27276142	26803162	19.917	23.521
32) l1	chlordane-5	3.552	4.275	42068468	20966520	19.853	23.849
Sum	chlordane-1			84657416	64047956	NoCal	NoCal D
Average	chlordane-1					20.679	25.392
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

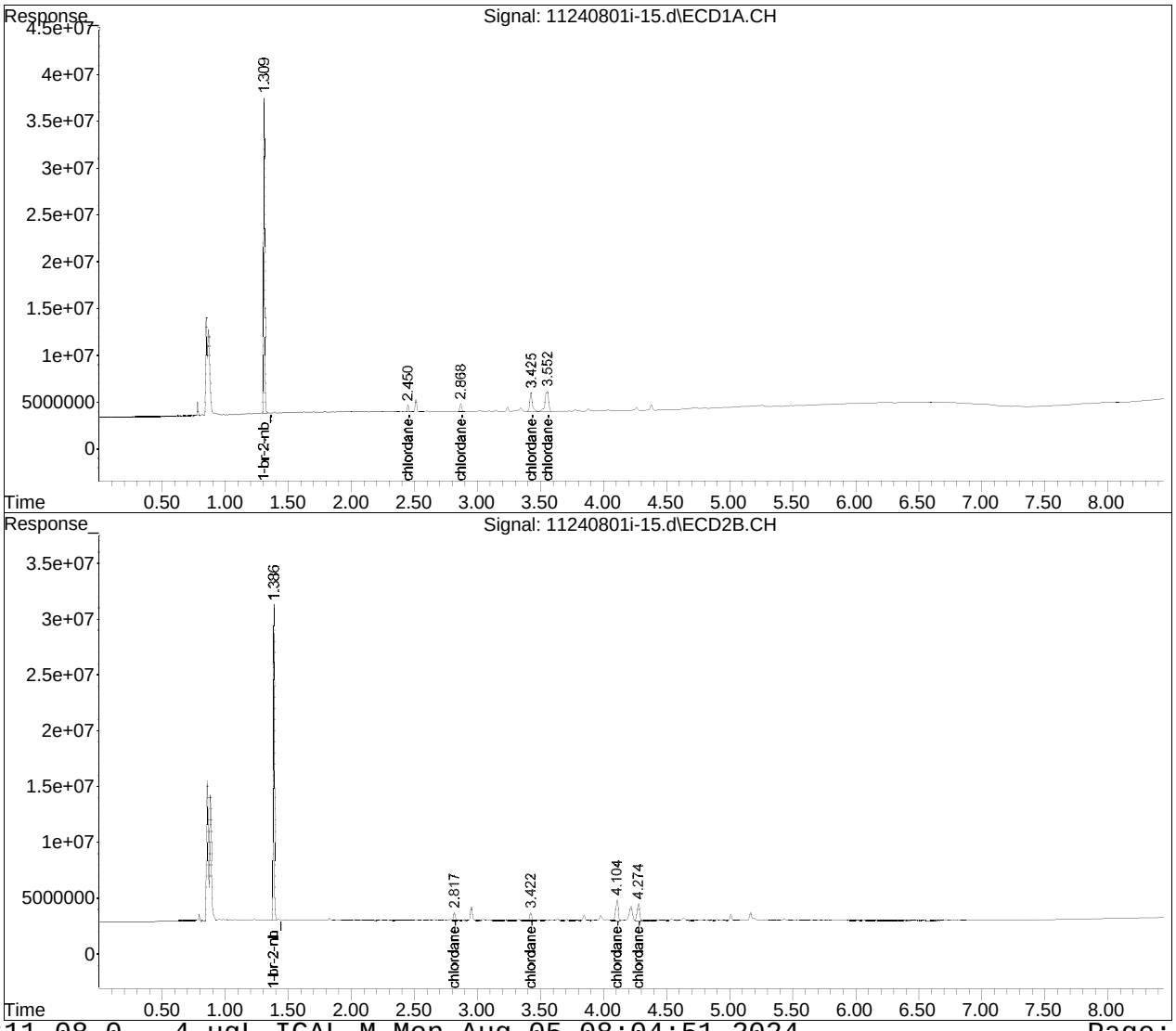
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:00
Operator : PEST11:ejl
Sample : il4chlor,42e,,pp 11693 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:11:50 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:11:41 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

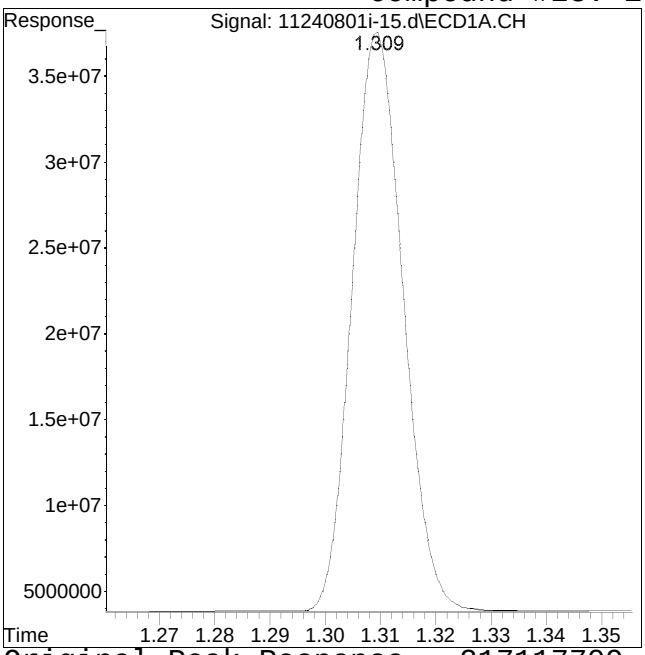
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



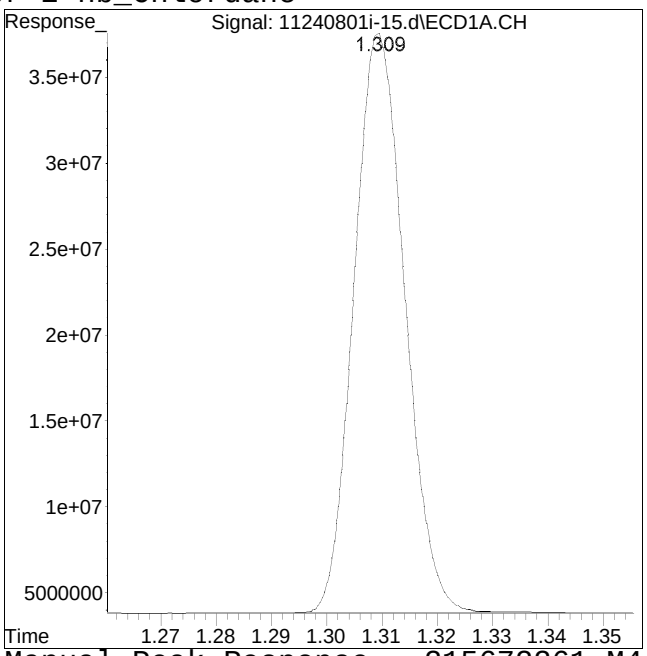
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-15.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:00 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/2/2024 12:11 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 217117709

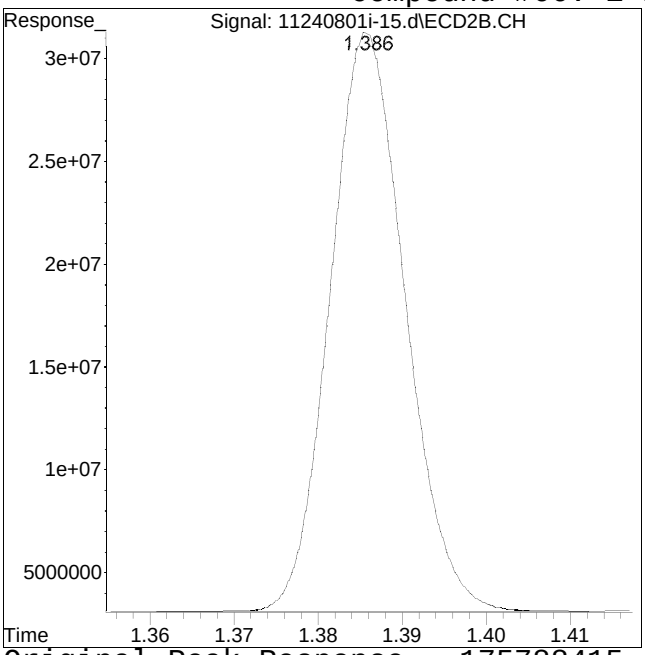


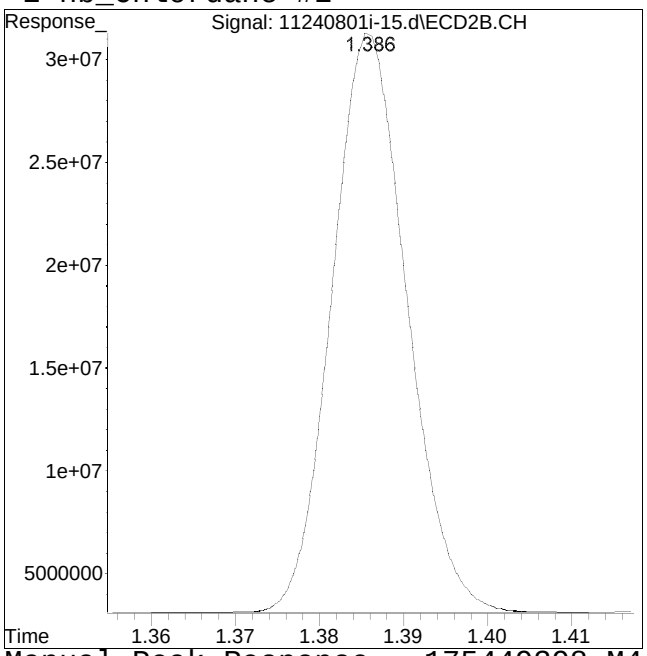
Manual Peak Response = 215672261 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-15.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:00 Instrument : Pest 11
Sample : il4chlor,42e,,pp 11693 L0.Quant Date : 8/2/2024 12:11 pm

Compound #66: 1-br-2-nb_Chlordane #2





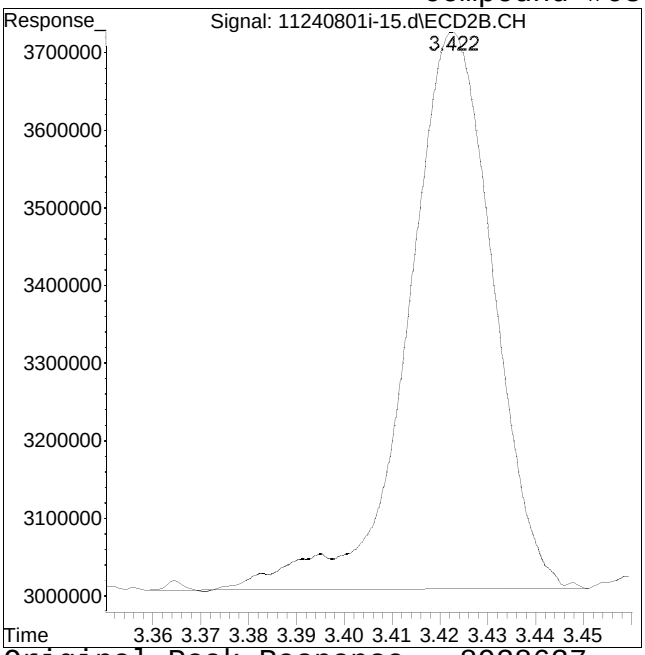
Original Peak Response = 175788415 Manual Peak Response = 175449398 M4
M4 = Poor automated baseline construction.

Manual Integration Report

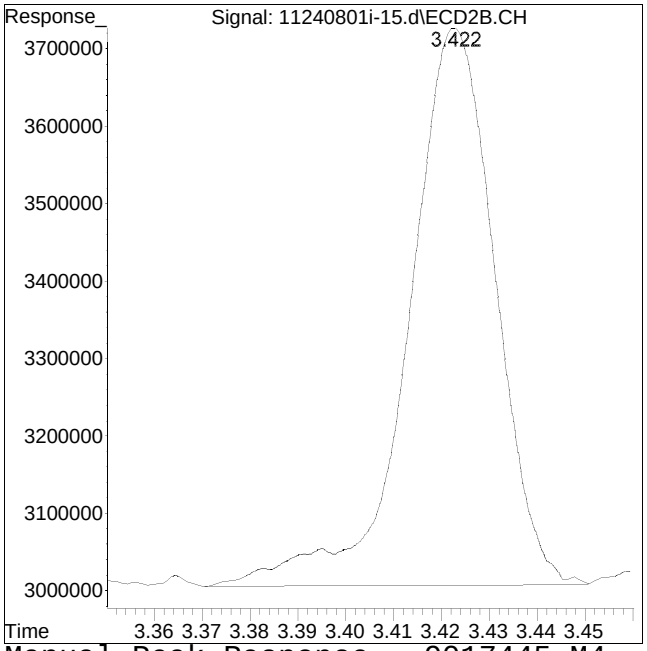
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-15.d
Date Inj'd : 8/1/2024 21:00
Sample : il4chlor,42e,,pp 11693 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:11 pm

Compound #68: chlordane-3 #2



Original Peak Response = 8938637



Manual Peak Response = 9017445 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.310	1.386	213.1E6	177.4E6	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	31747496	31529401	100.863	115.730
30) l1	chlordane-3	2.868	3.423	42064633	39044033	112.438M3	126.559
31) l1	chlordane-4	3.426	4.105	133.2E6	117.6E6	98.086	102.618
32) l1	chlordane-5	3.553	4.275	208.7E6	92314998	99.611	104.846
Sum	chlordane-1			415.7E6	280.5E6	NoCal	NoCal D
Average	chlordane-1					102.749	112.438
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

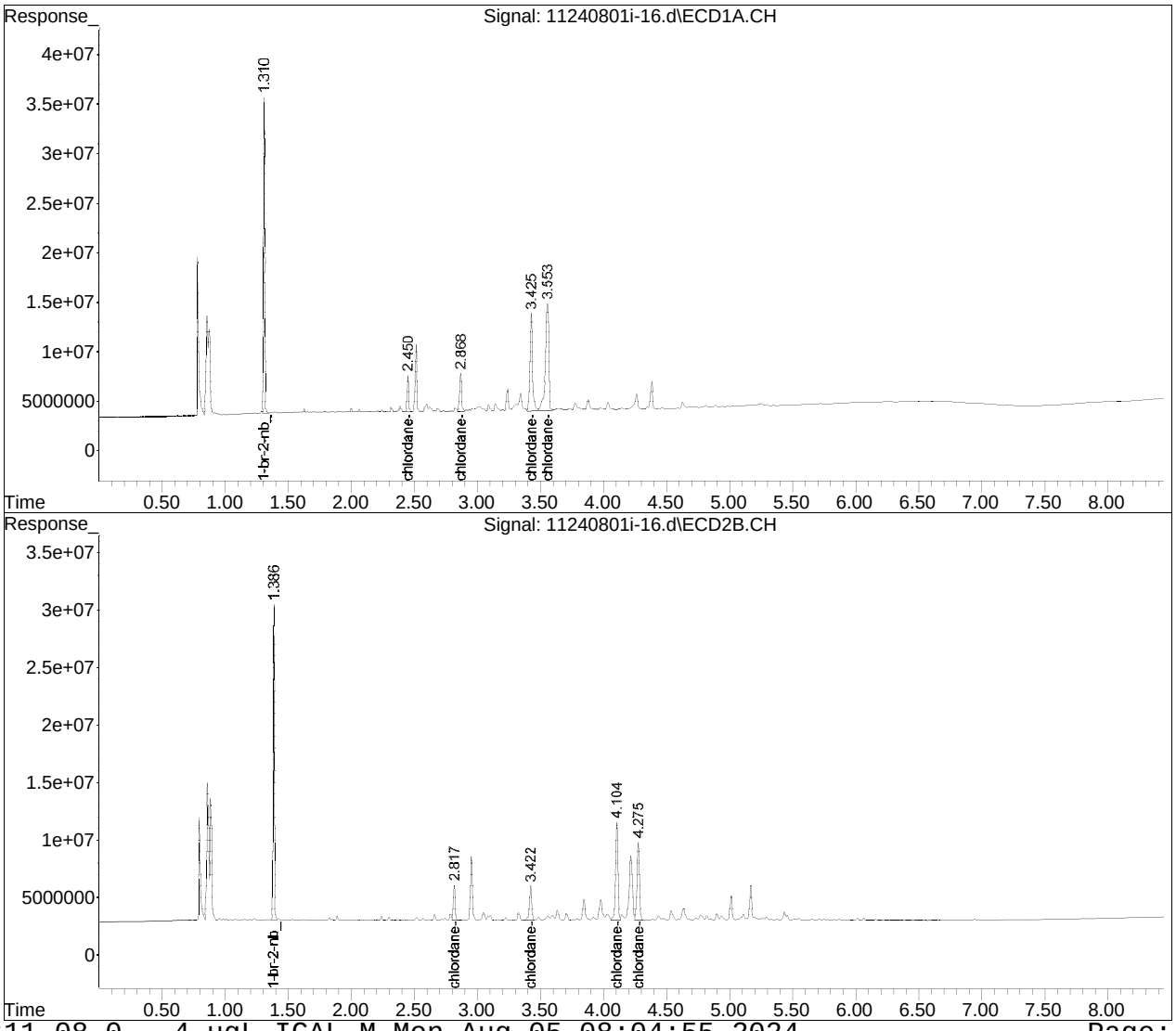
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:12
Operator : PEST11:ejl
Sample : il5chlor,42e,,pp 11692 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:10:36 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:10:28 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

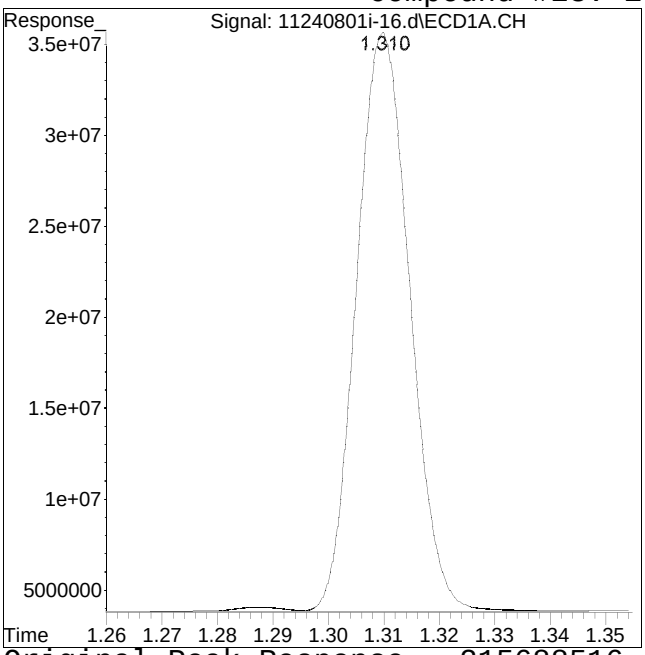


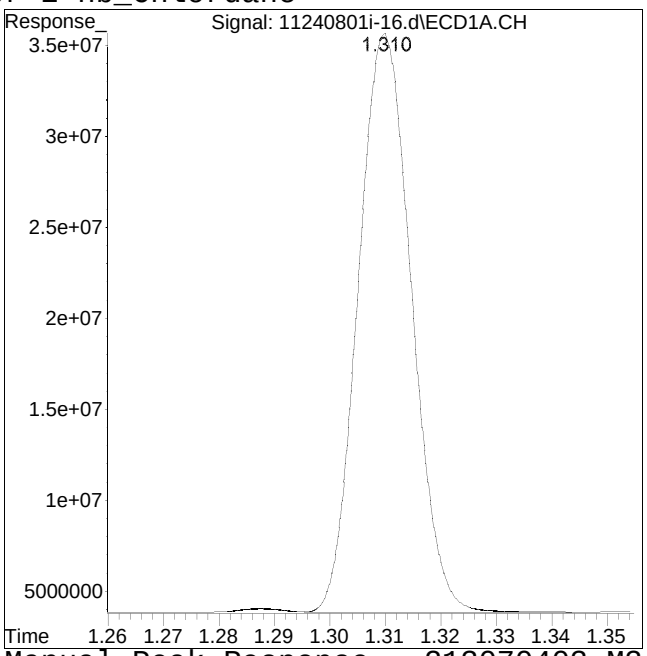
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-16.d
Date Inj'd : 8/1/2024 21:12
Sample : il5chlor,42e,,pp 11692 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:10 pm

Compound #28: 1-br-2-nb_Chlordane





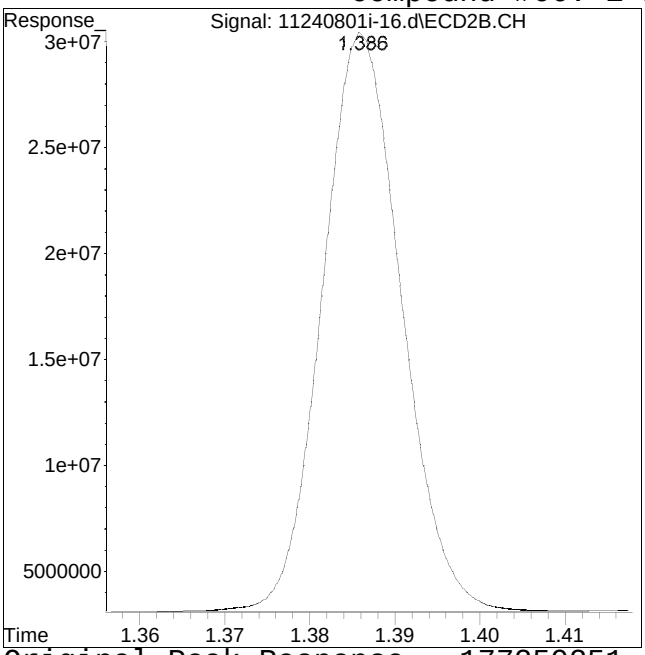
Original Peak Response = 215688516 Manual Peak Response = 213070403 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

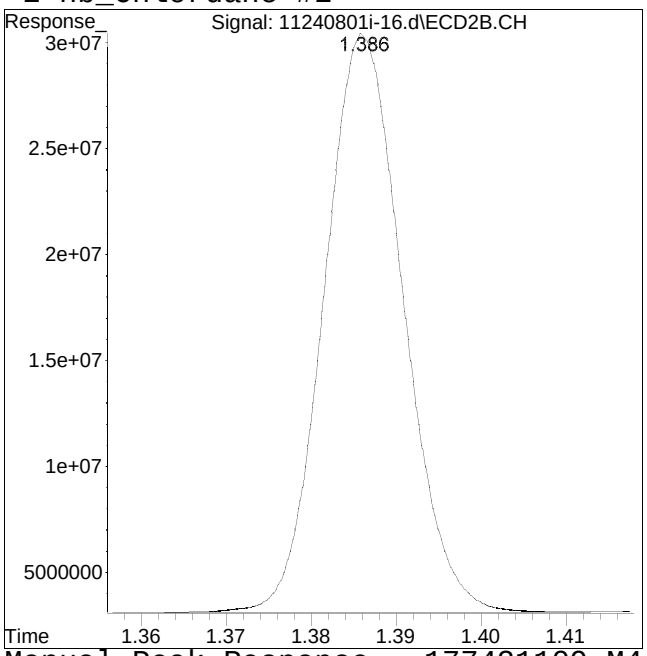
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-16.d
Date Inj'd : 8/1/2024 21:12
Sample : il5chlor,42e,,pp 11692 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:10 pm

Compound #66: 1-br-2-nb_Chlordane #2



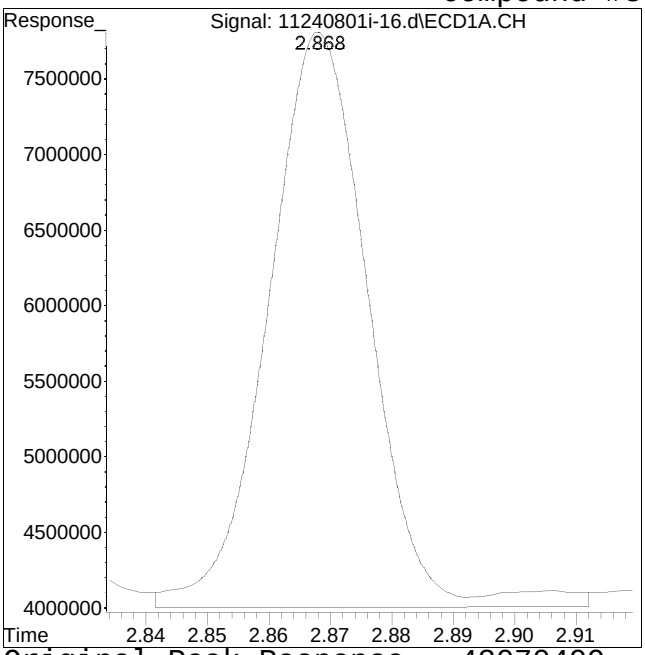


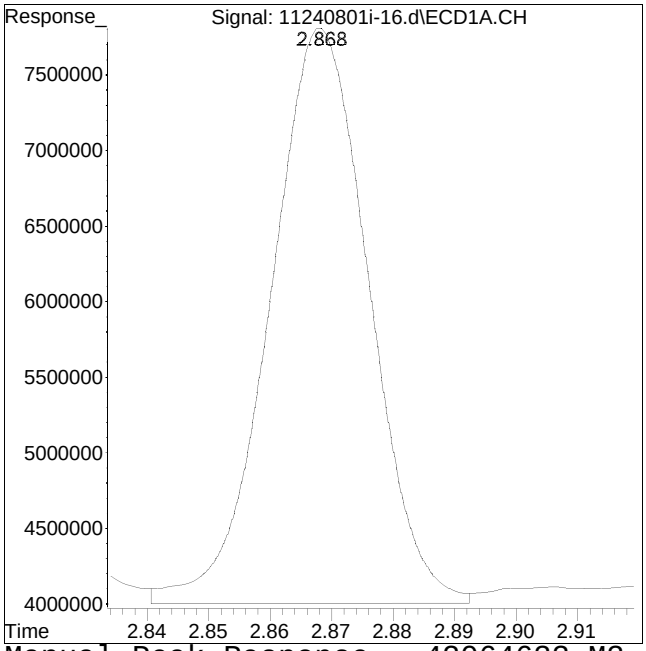
Original Peak Response = 177259251 Manual Peak Response = 177421109 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-16.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:12 Instrument : Pest 11
Sample : il5chlor,42e,,pp 11692 L0.Quant Date : 8/2/2024 12:10 pm

Compound #30: chlordane-3





Original Peak Response = 43070499 Manual Peak Response = 42064633 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	218.4E6	184.3E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	161.0E6	143.9E6	498.684	511.438
30) l1	chlordane-3	2.868	3.423	200.4E6	172.2E6	530.433	551.110
31) l1	chlordane-4	3.425	4.105	700.4E6	600.2E6	504.213	505.425
32) l1	chlordane-5	3.551	4.275	1089.8E6	462.7E6	510.023M3	507.838
Sum	chlordane-1			2151.6E6	1379.0E6	NoCal	NoCal D
Average	chlordane-1					510.838	518.953
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

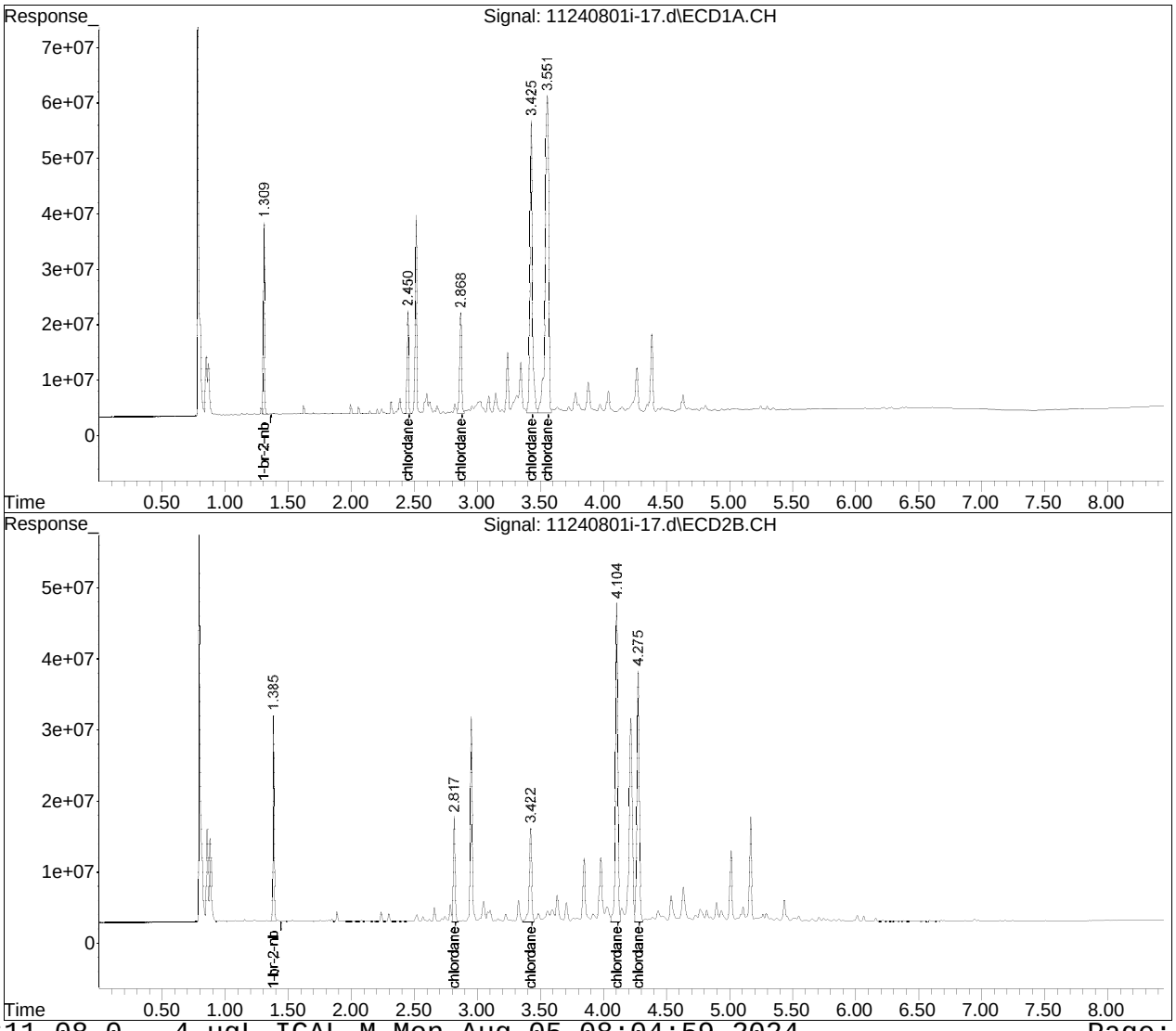
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:24
Operator : PEST11:ejl
Sample : il7chlor,42e,,pp 11691 L0.5
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:09:22 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:09:13 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

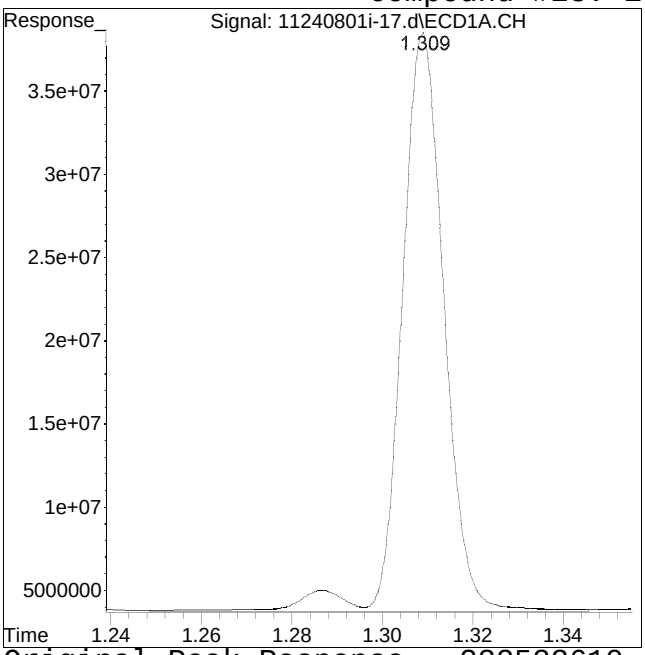


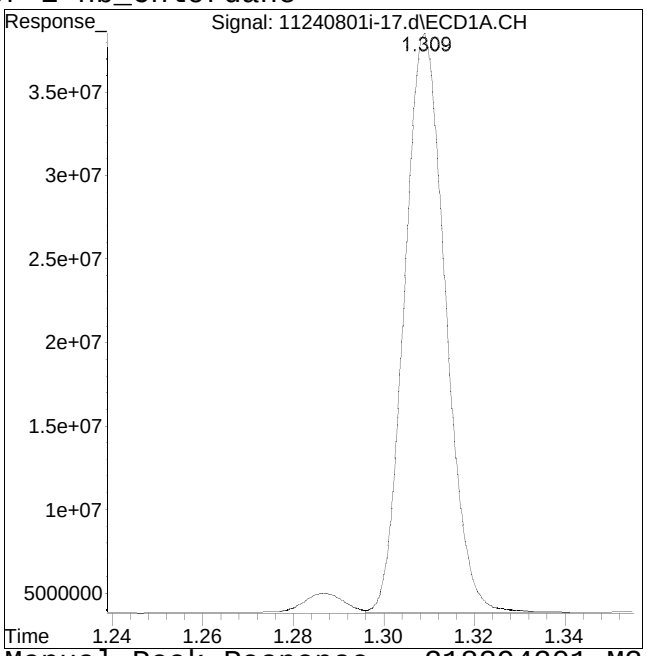
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-17.d
Date Inj'd : 8/1/2024 21:24
Sample : il7chlor,42e,,pp 11691 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:09 pm

Compound #28: 1-br-2-nb_Chlordane





Original Peak Response = 232522610 Manual Peak Response = 218394201 M3

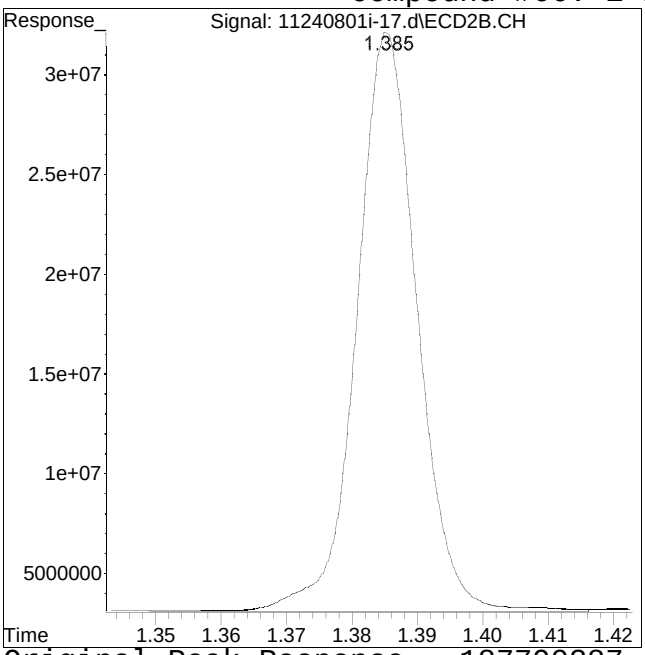
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

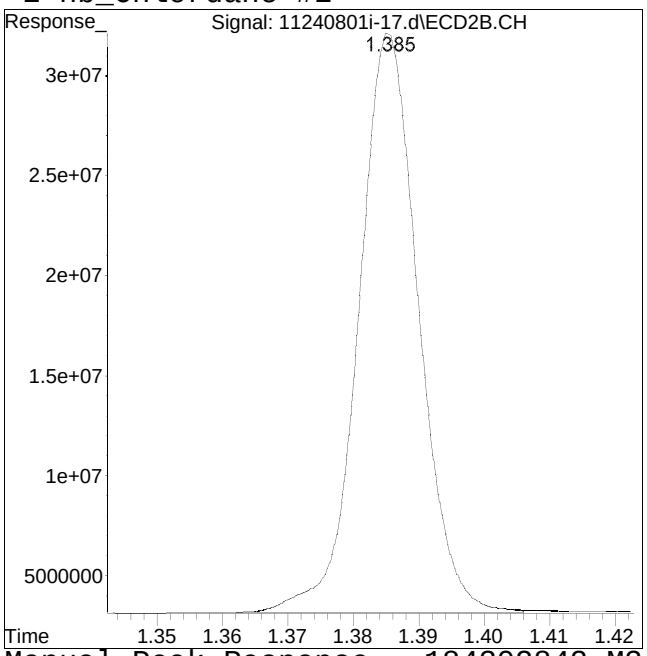
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-17.d
Date Inj'd : 8/1/2024 21:24
Sample : il7chlor,42e,,pp 11691 L0.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:09 pm

Compound #66: 1-br-2-nb_Chlordane #2





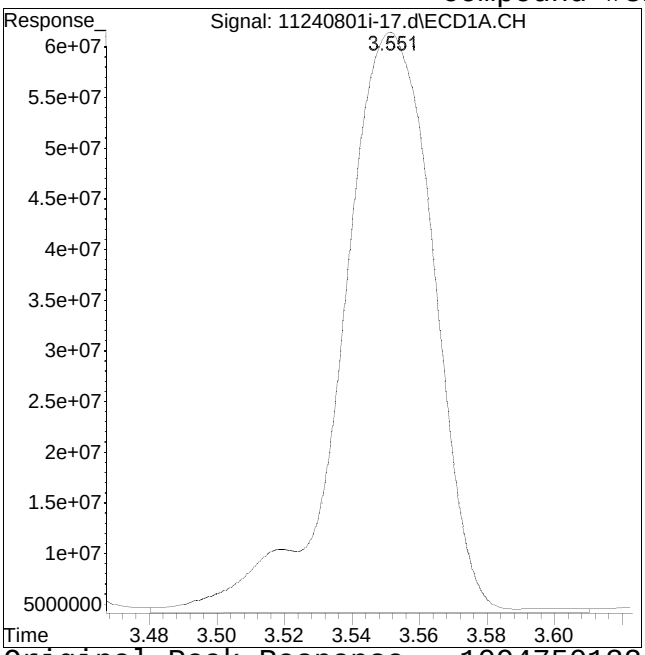
Original Peak Response = 187790387 Manual Peak Response = 184302842 M3

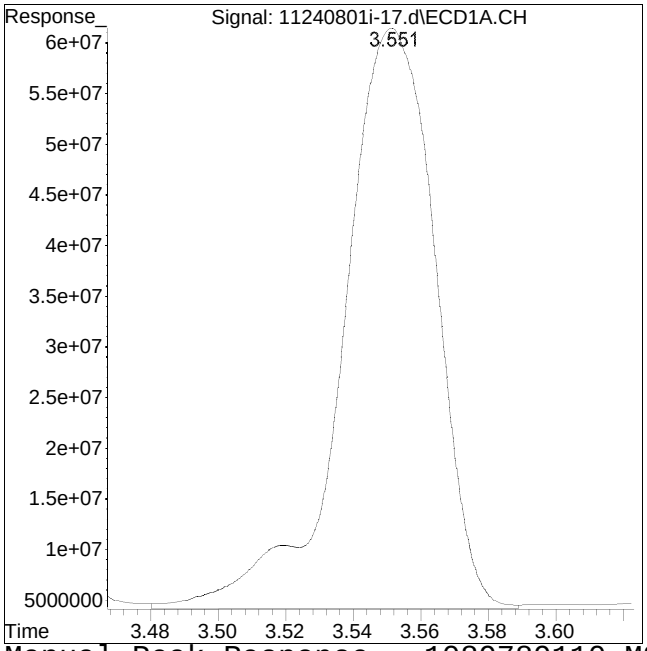
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-17.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:24 Instrument : Pest 11
Sample : il7chlor,42e,,pp 11691 L0.Quant Date : 8/2/2024 12:09 pm

Compound #32: chlordane-5





Original Peak Response = 1094750132 Manual Peak Response = 1089789110 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	220.2E6	184.9E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	332.9E6	292.8E6	NoCal	NoCal
30) l1	chlordane-3	2.867	3.422	400.7E6	336.8E6	NoCal M3	NoCal
31) l1	chlordane-4	3.425	4.104	1449.5E6	1235.6E6	NoCal	NoCal
32) l1	chlordane-5	3.552	4.275	2241.5E6	947.4E6	NoCal M3	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

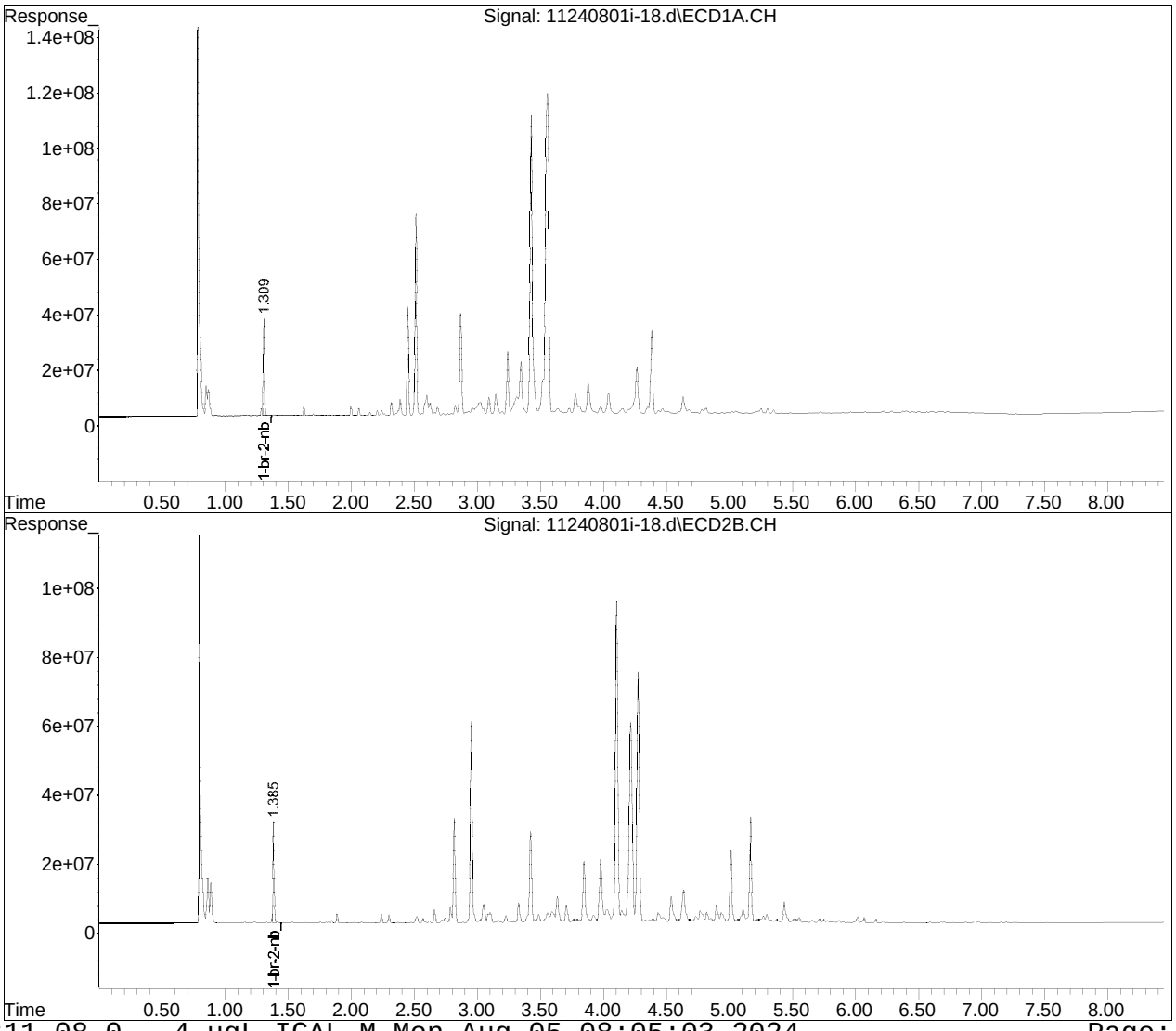
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:36
Operator : PEST11:ejl
Sample : il8chlor,42e,,pp 11690 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 11:55:27 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 11:55:19 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

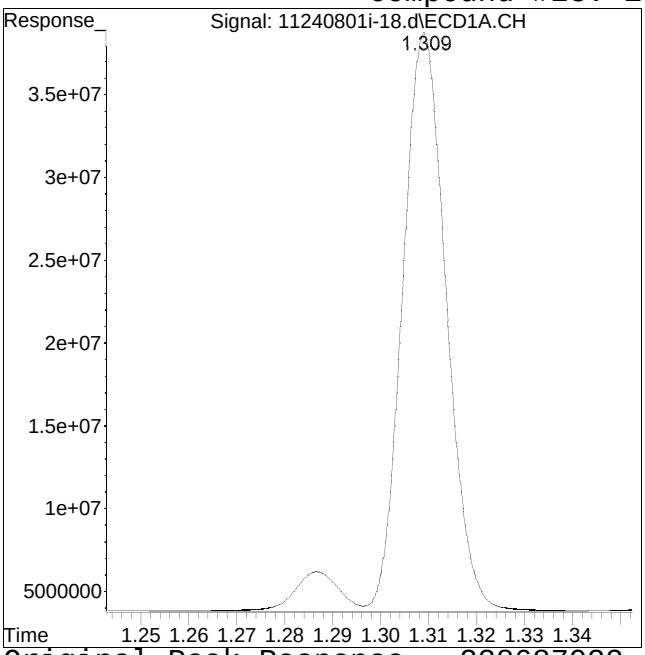
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

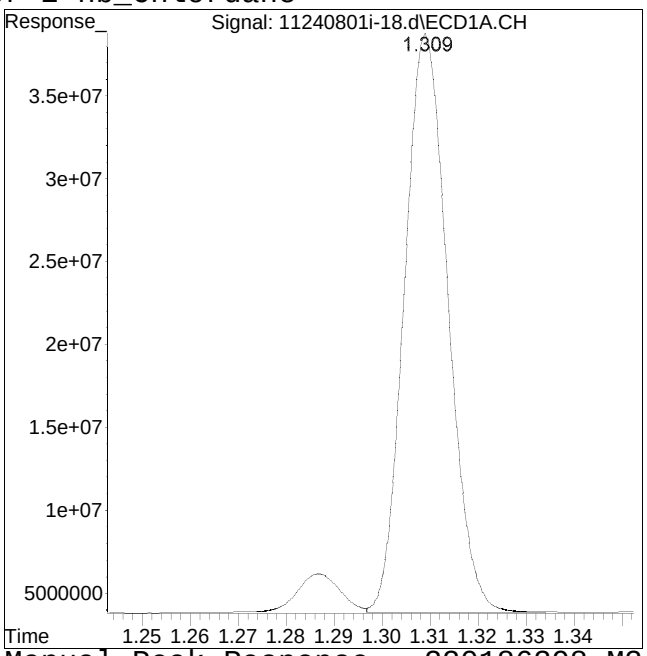


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-18.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:36 Instrument : Pest 11
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/2/2024 11:55 am

Compound #28: 1-br-2-nb_Chlordane





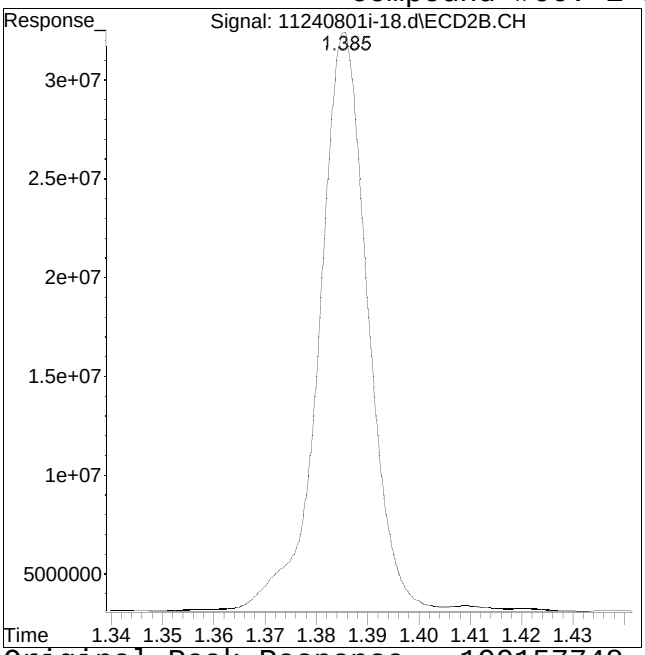
Original Peak Response = 238687922 Manual Peak Response = 220186398 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

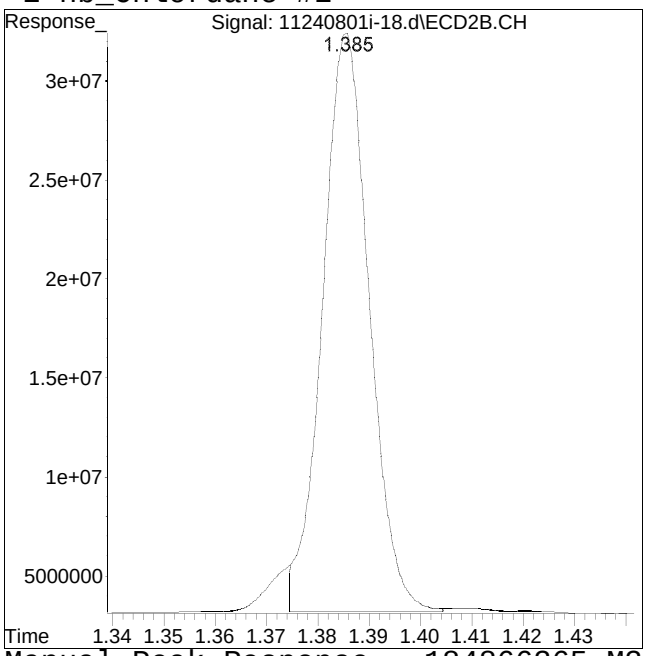
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-18.d
Date Inj'd : 8/1/2024 21:36
Sample : il8chlor,42e,,pp 11690 L1.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:55 am

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 199157748 Manual Peak Response = 184866365 M3

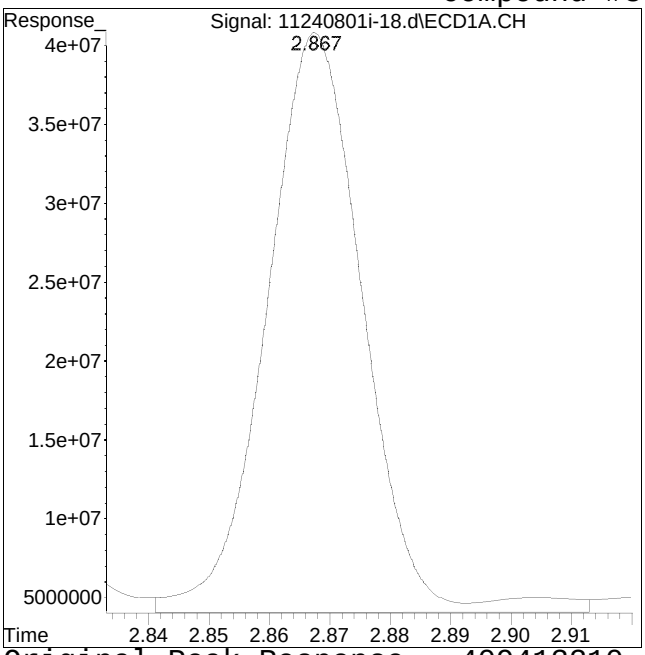
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

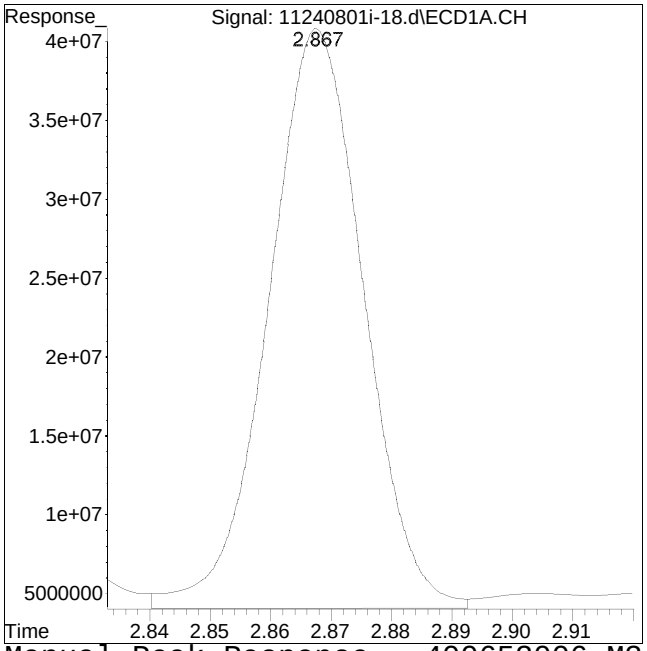
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-18.d
Date Inj'd : 8/1/2024 21:36
Sample : il8chlor,42e,,pp 11690 L1.

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 11:55 am

Compound #30: chlordane-3





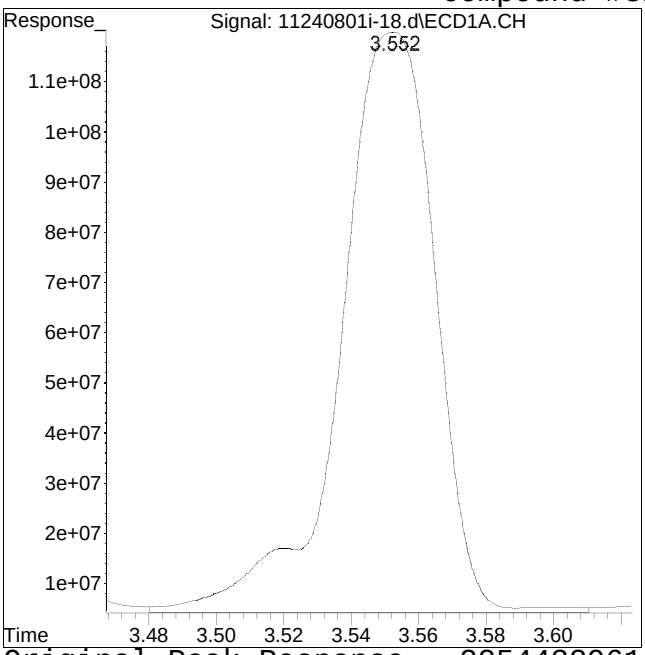
Original Peak Response = 409413310 Manual Peak Response = 400653006 M3

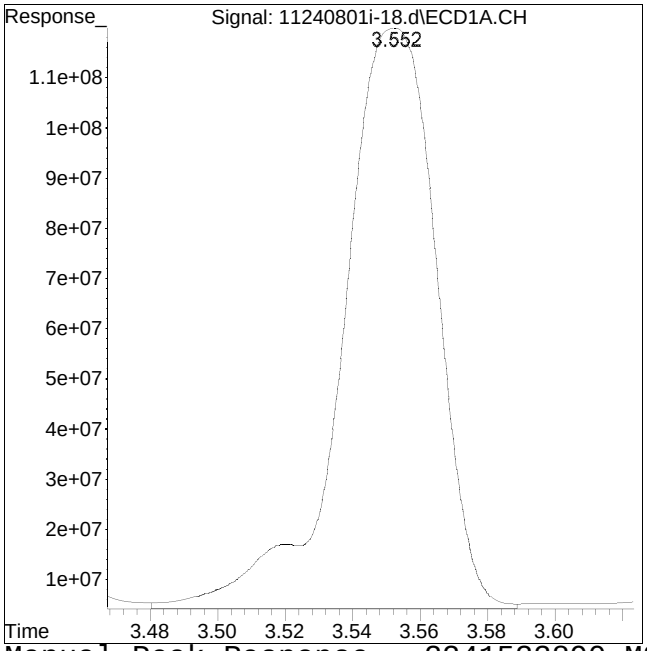
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-18.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:36 Instrument : Pest 11
Sample : il8chlor,42e,,pp 11690 L1.Quant Date : 8/2/2024 11:55 am

Compound #32: chlordane-5





Original Peak Response = 2254432961 Manual Peak Response = 2241533890 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	225.5E6	184.1E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	675.3E6	585.8E6	1981.244	2009.090
30) l1	chlordane-3	2.867	3.423	788.9E6	650.4E6	1922.917M3	1939.223
31) l1	chlordane-4	3.425	4.105	2915.2E6	2486.4E6	1964.100	2020.689
32) l1	chlordane-5	3.552	4.275	4487.5E6	1905.6E6	1955.174	2019.653
Sum	chlordane-1			8866.9E6	5628.2E6	NoCal	NoCal D
Average	chlordane-1					1955.859	1997.164
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

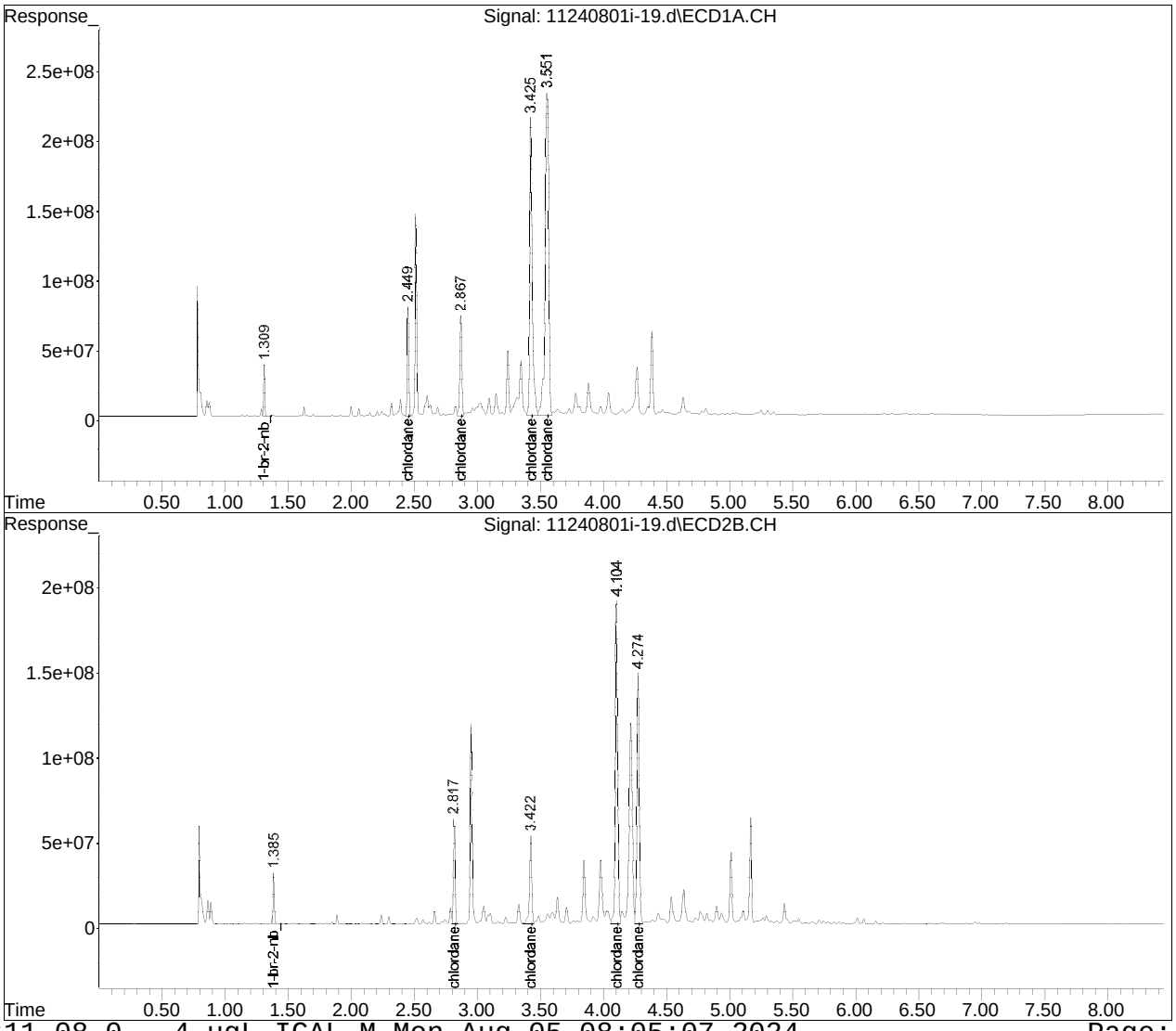
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 21:48
Operator : PEST11:ejl
Sample : il9chlor,42e,,pp 11689 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:06:31 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:06:20 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

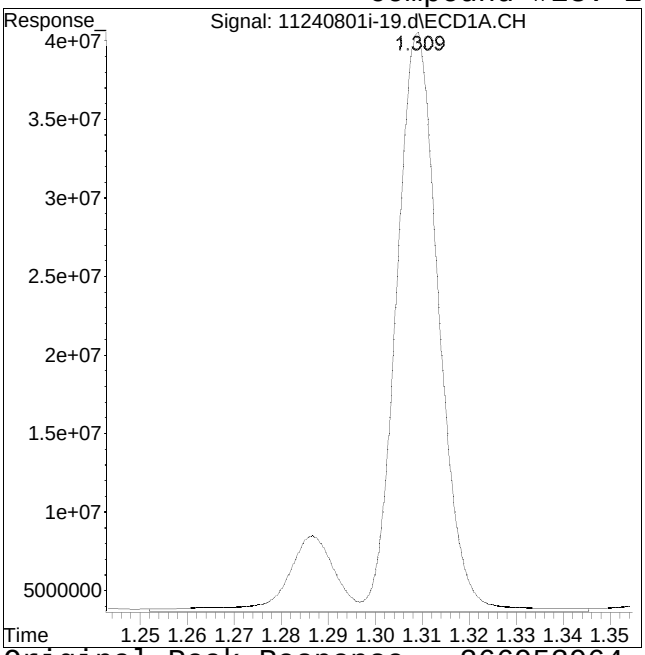
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

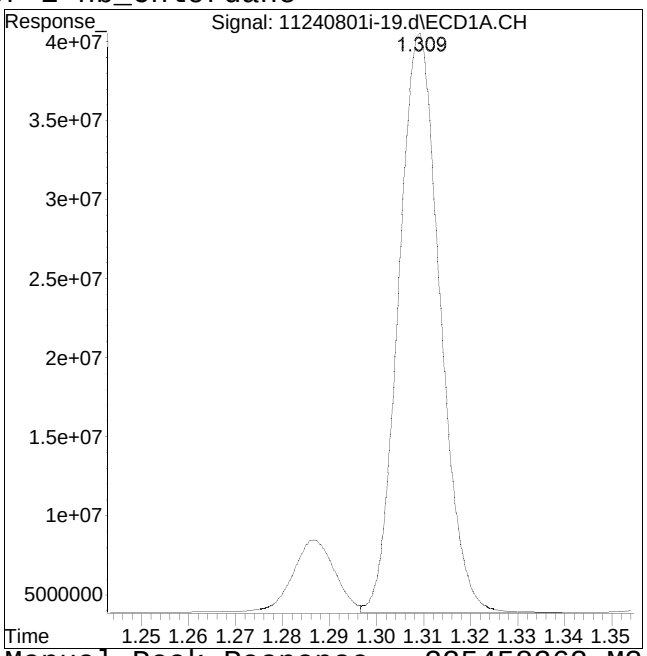


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-19.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:48 Instrument : Pest 11
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/2/2024 12:06 pm

Compound #28: 1-br-2-nb_Chlordane



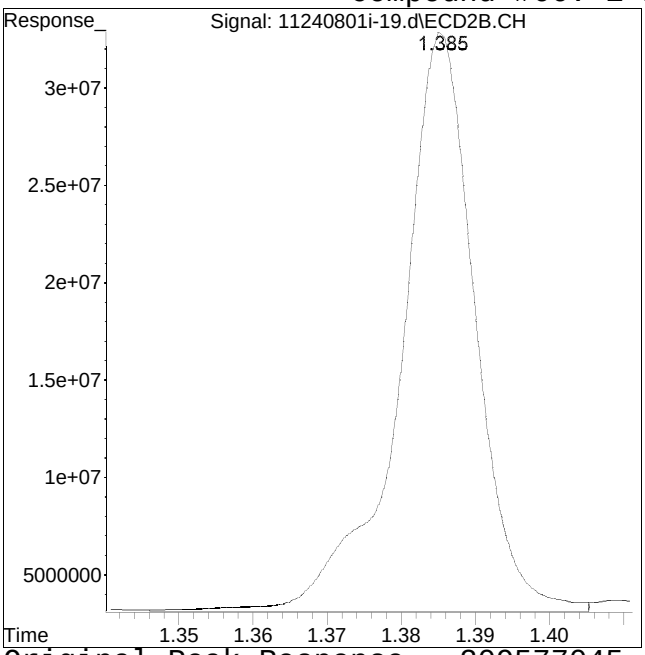


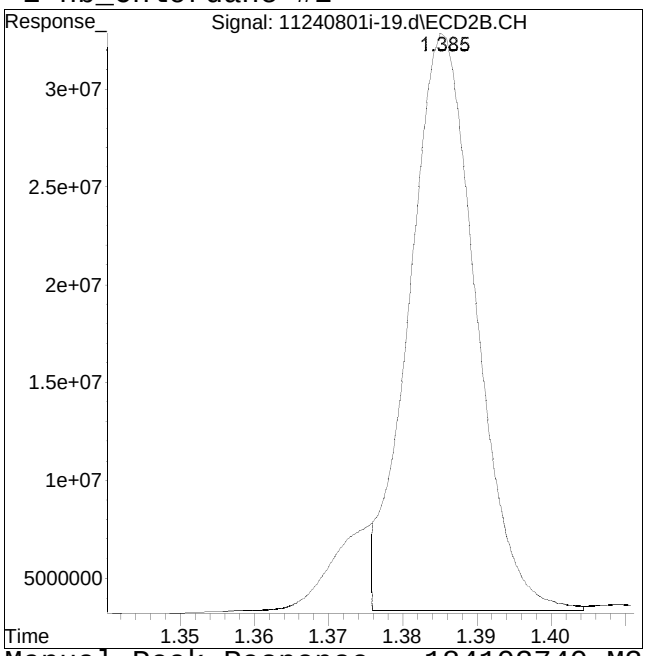
Original Peak Response = 266953964 Manual Peak Response = 225458262 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-19.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:48 Instrument : Pest 11
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/2/2024 12:06 pm

Compound #66: 1-br-2-nb_Chlordane #2



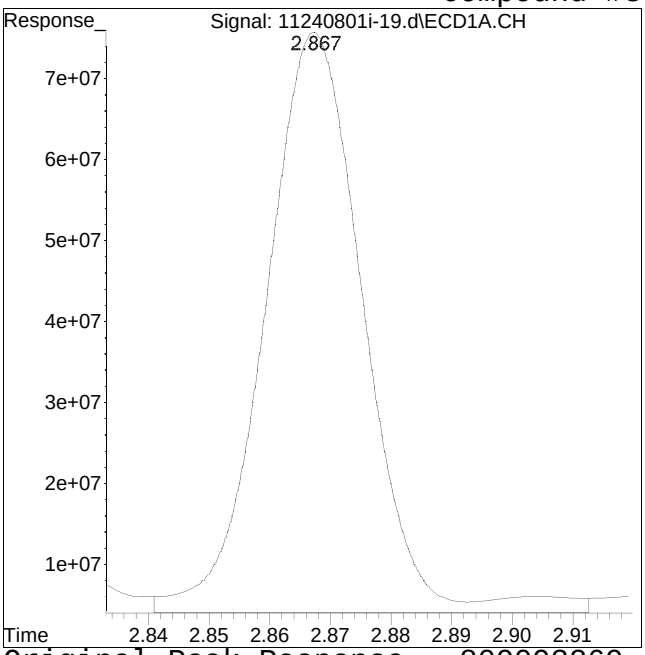


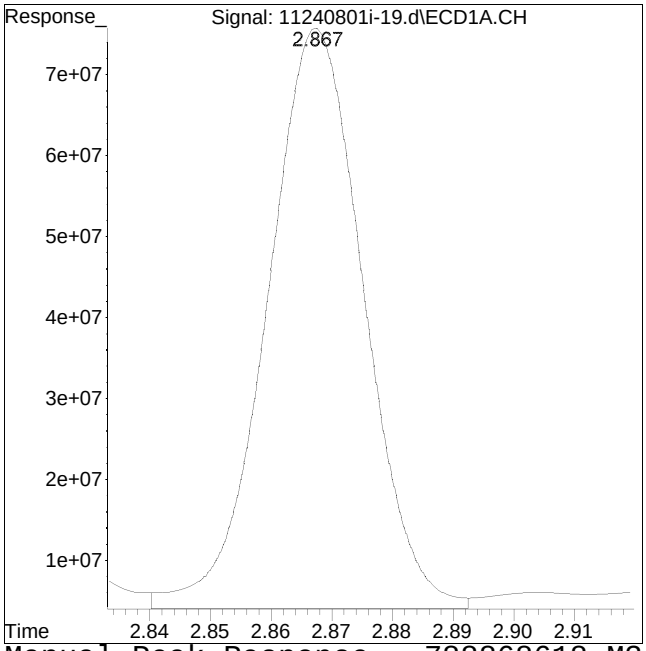
Original Peak Response = 209577045 Manual Peak Response = 184103740 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-19.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 21:48 Instrument : Pest 11
Sample : il9chlor,42e,,pp 11689 L2.Quant Date : 8/2/2024 12:06 pm

Compound #30: chlordane-3





Original Peak Response = 809093269 Manual Peak Response = 788868618 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.386	240.1E6	211.3E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.818	1711.0E6	1485.0E6	4735.136	4428.395
30) l1	chlordane-3	2.868	3.422	1944.4E6	1582.5E6	4537.369	4174.870
31) l1	chlordane-4	3.425	4.105	7244.9E6	6226.2E6	4624.523	4386.798
32) l1	chlordane-5	3.553	4.275	11069.4E6	4784.6E6	4579.501M3	4397.515
Sum	chlordane-1			21969.7E6	14078.2E6	NoCal	NoCal D
Average	chlordane-1					4619.132	4346.894
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

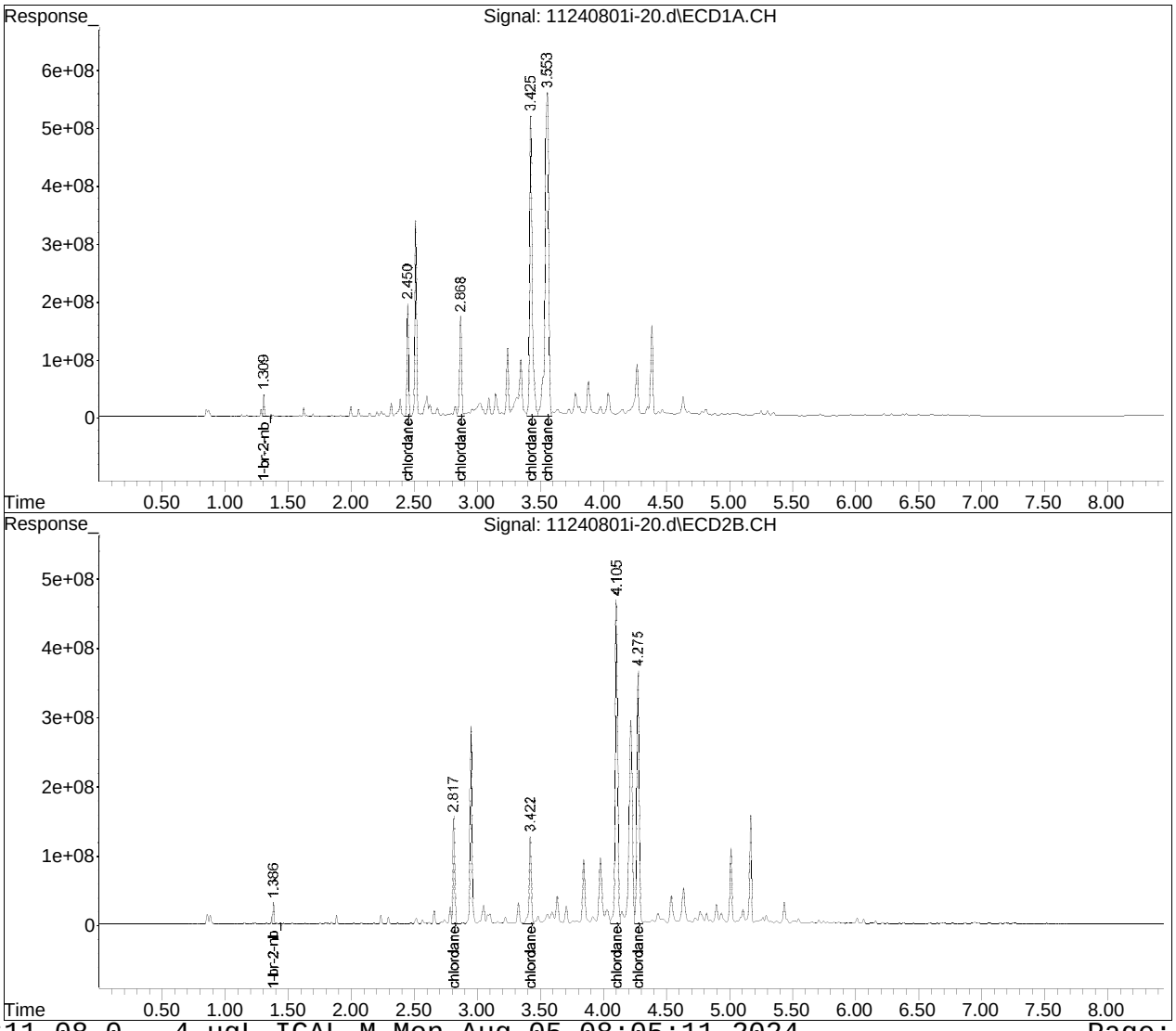
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:00
Operator : PEST11:ejl
Sample : il10chlor,42e,,pp 11688 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:07:47 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:07:40 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

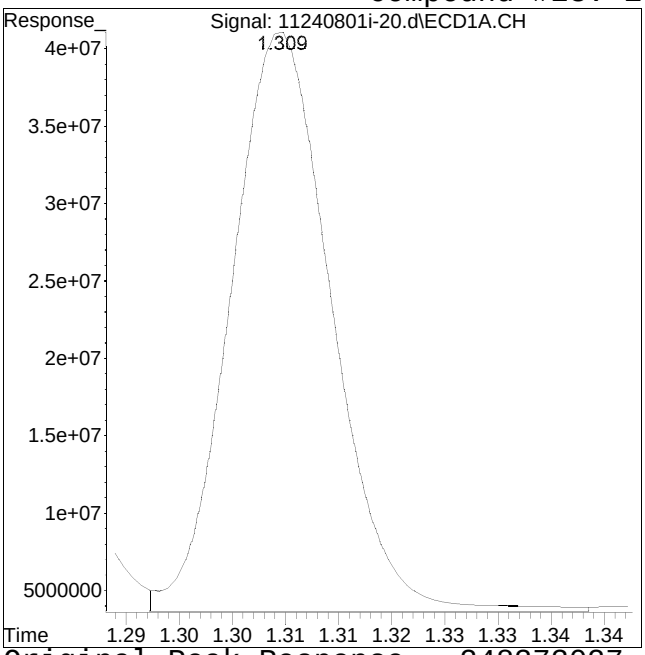


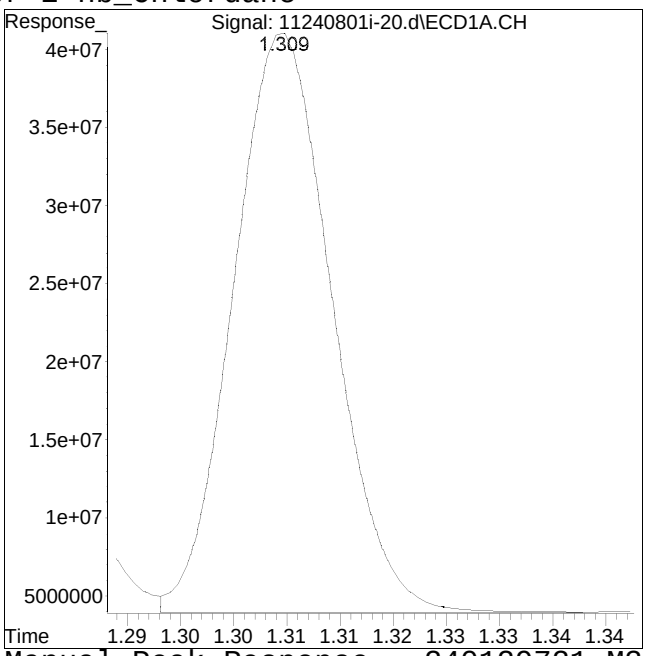
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-20.d
Date Inj'd : 8/1/2024 22:00
Sample : il10chlor,42e,,pp 11688 L5

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:07 pm

Compound #28: 1-br-2-nb_Chlordane





Original Peak Response = 248373027 Manual Peak Response = 240129721 M3

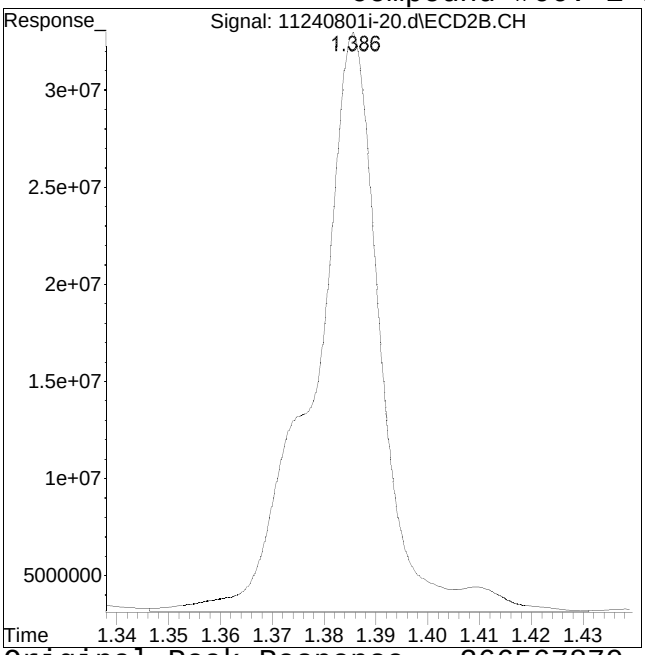
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

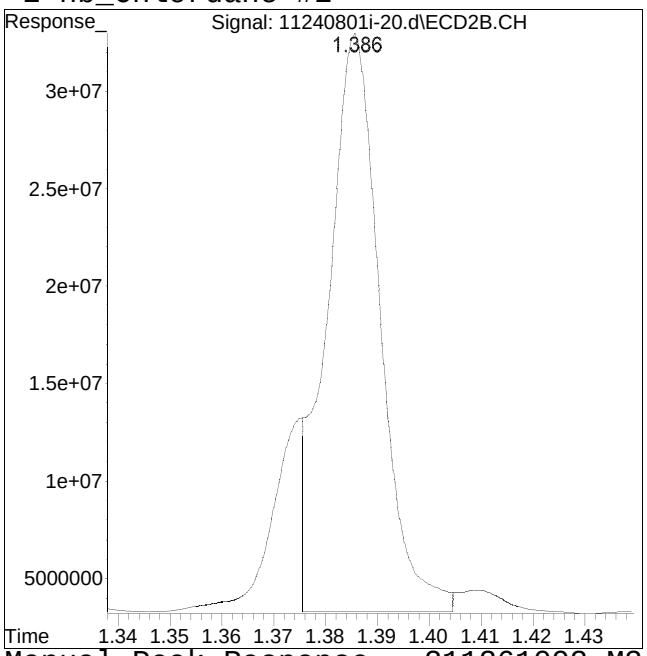
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-20.d
Date Inj'd : 8/1/2024 22:00
Sample : il10chlor,42e,,pp 11688 L5

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:07 pm

Compound #66: 1-br-2-nb_Chlordane #2





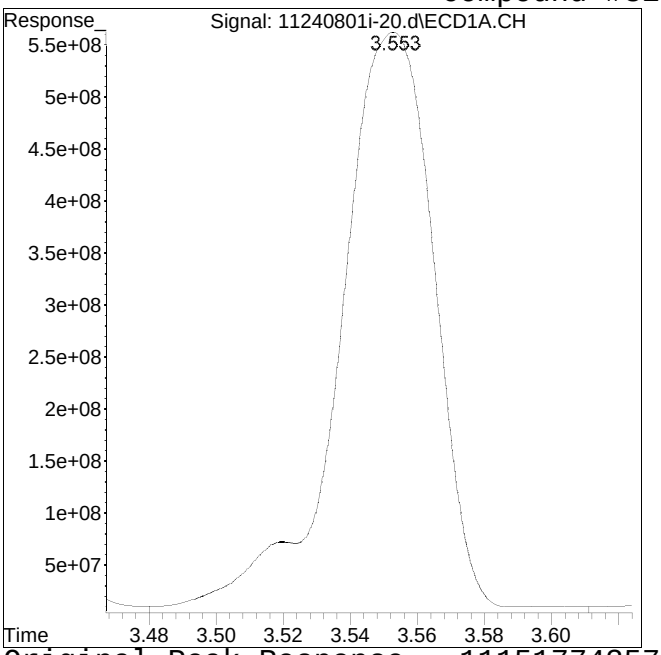
Original Peak Response = 266567870 Manual Peak Response = 211261092 M3

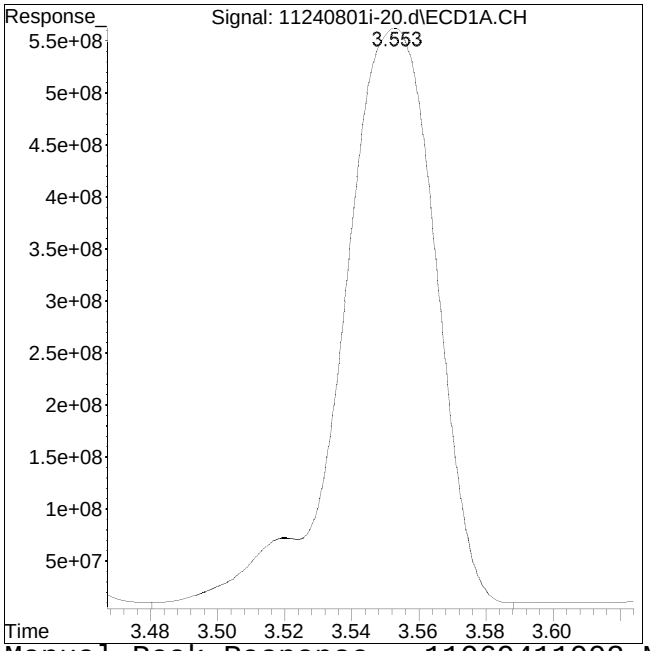
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-20.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:00 Instrument : Pest 11
Sample : il10chlor,42e,,pp 11688 L5Quant Date : 8/2/2024 12:07 pm

Compound #32: chlordane-5





Original Peak Response = 11151774357 Manual Peak Response = 11069411003 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	97	0.00
29	l1	chlordane-1		*1000.000	910.442	9.0	86	0.00
30	l1	chlordane-3		*1000.000	925.102	7.5	84	0.00
31	l1	chlordane-4		*1000.000	883.809	11.6	82	0.00
32	l1	chlordane-5		*1000.000	991.186	0.9	91	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	96	0.00
29	l1	chlordane-1		*1000.000	944.301	5.6	85	0.00
30	l1	chlordane-3		*1000.000	973.540	2.6	84	0.00
31	l1	chlordane-4		*1000.000	893.716	10.6	80	0.00
32	l1	chlordane-5		*1000.000	877.017	12.3	79	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.65#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.96#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.17#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.22#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.35#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.51#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.76#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.88#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.97#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.30#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.56#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.66#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.69#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.96#
18	t	Endrin		1.153	0.000	100.0#	0#	-4.21#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.32#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.45#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.62#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.87#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-5.10#
24	t	Mirex		0.938	0.000	100.0#	0#	-5.16#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.26#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.49#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.29#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-2	*	0.050	0.000	100.0#	0#	-4.44#
35	l2	toxaphene-3	*	0.039	0.000	100.0#	0#	-4.57#
36	l2	toxaphene-4	*	0.042	0.000	100.0#	0#	-4.79#
37	l2	toxaphene-5	*	0.043	0.000	100.0#	0#	-5.17#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.39#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.86#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.18#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.27#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.56#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.62#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample   : cicvchlor,42e,,pp 11670 L1.0ICV
Misc   : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.95#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.27#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.88#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-4.10#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.27#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.47#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.34#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.42#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.89#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.02#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.65#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-6.06#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.92#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.39#
34	l2	toxaphene-2	*	0.025	0.000	100.0#	0#	-5.08#
35	l2	toxaphene-3	*	0.037	0.000	100.0#	0#	-5.11#
36	l2	toxaphene-4	*	0.044	0.000	100.0#	0#	-5.43#
37	l2	toxaphene-5	*	0.042	0.000	100.0#	0#	-5.84#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.309	1.385	215.4E6	177.1E6	25.000M3	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.450	2.817	285.6E6	248.8E6	910.442	944.301
30) l1	chlordane-3	2.868	3.422	337.4E6	282.0E6	925.102	973.540
31) l1	chlordane-4	3.426	4.105	1185.4E6	988.3E6	883.809	893.716
32) l1	chlordane-5	3.550	4.275	2040.5E6	745.1E6	991.186	877.017
Sum	chlordane-1			3848.9E6	2264.2E6	NoCal	NoCal D
Average	chlordane-1					927.635	922.144
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

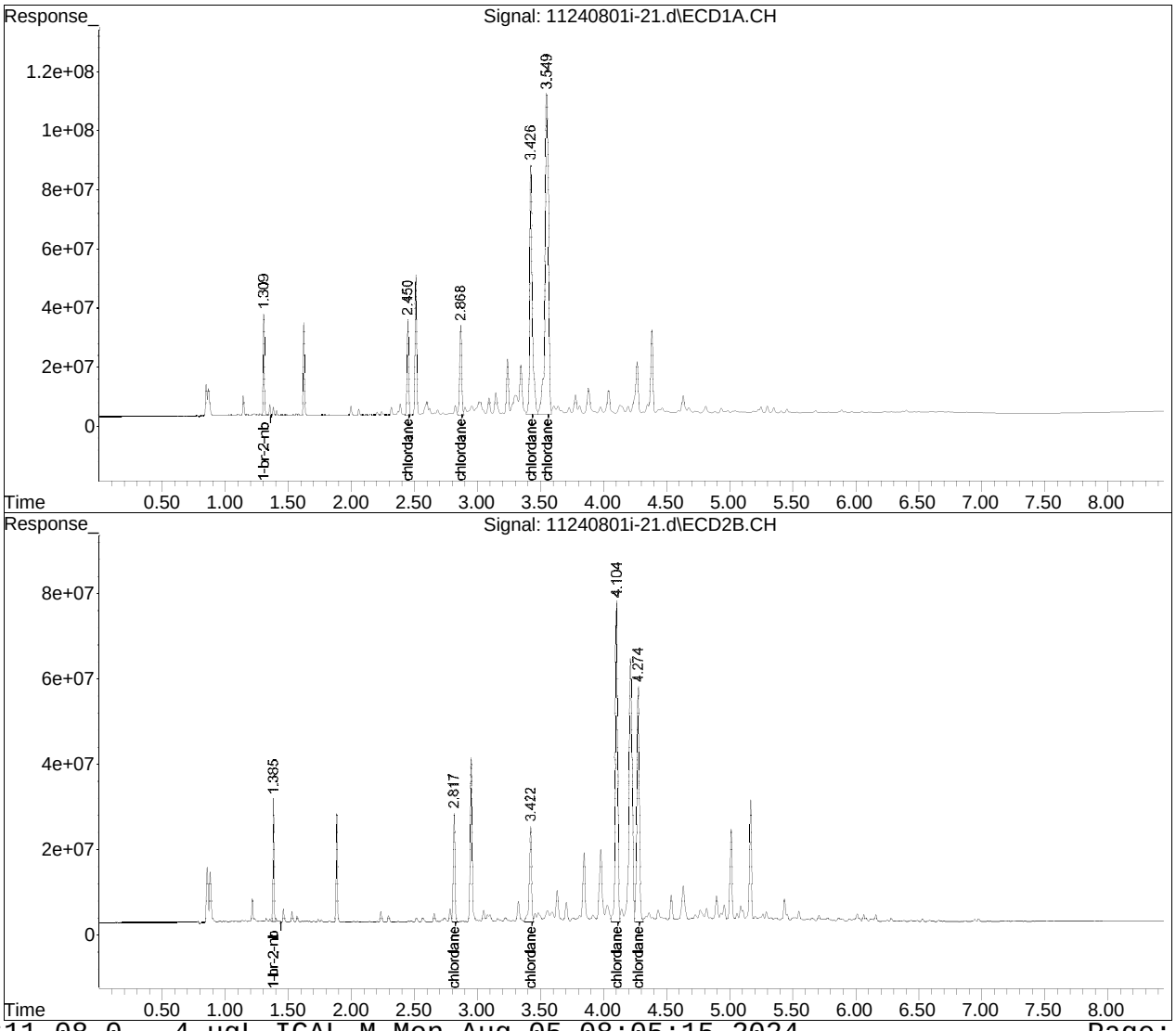
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:12
Operator : PEST11:ejl
Sample : cicvchlor,42e,,pp 11670 L1.0ICV
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:16:29 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:16:29 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

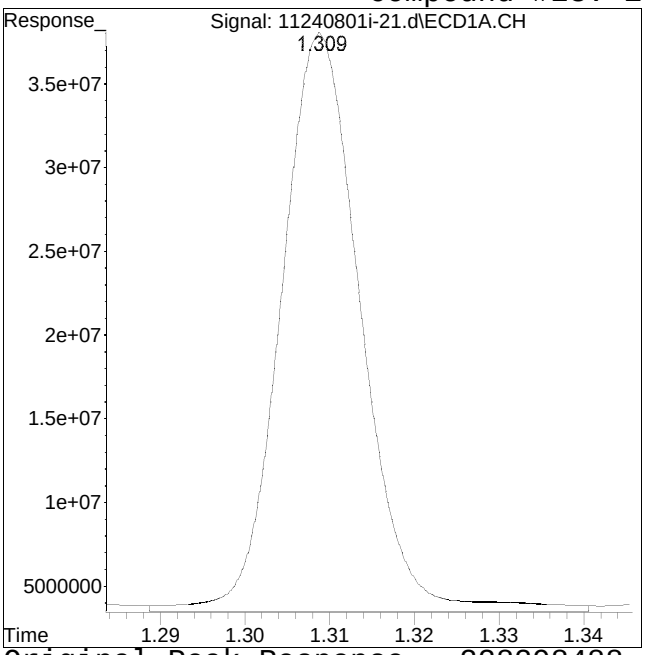
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

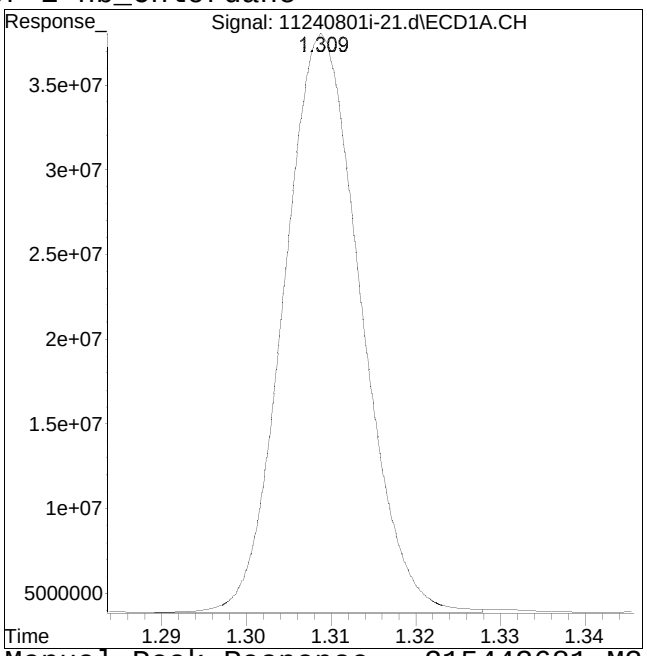


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-21.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:12 Instrument : Pest 11
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 8/2/2024 12:16 pm

Compound #28: 1-br-2-nb_Chlordane



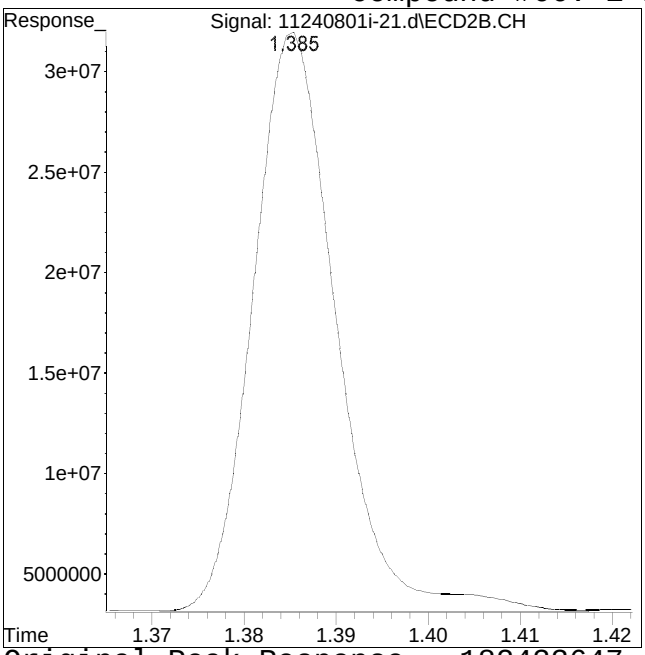


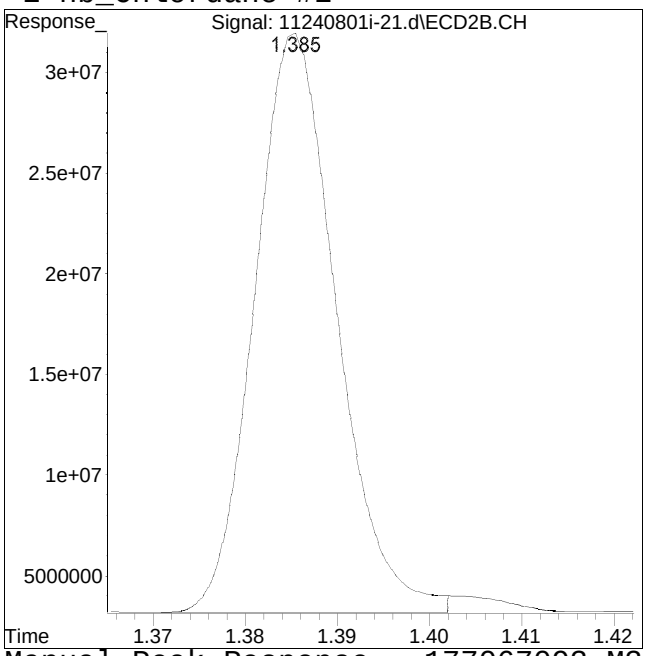
Original Peak Response = 228298488 Manual Peak Response = 215443681 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-21.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:12 Instrument : Pest 11
Sample : cicvchlor,42e,,pp 11670 L1Quant Date : 8/2/2024 12:16 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 182433647 Manual Peak Response = 177067093 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	207.9E6	171.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13) t	gamma-Chlord	0.000	0.000	0	0	N.D.	N.D.
14) t	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D.	N.D.
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	6298815	3783276	14.276	22.443
35) l2	toxaphene-3	4.566	5.112	5311161	5766534	15.580	23.257
36) l2	toxaphene-4	4.792	5.429	6754862	6780894	19.276M3	23.080
37) l2	toxaphene-5	5.168	5.836	8888706	6922230	26.745M4	25.343
Sum	toxaphene-2			27253545	23252934	75.878	94.123
Average	toxaphene-2					18.970	23.531

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			27253545	23252934	75.878	94.123
Average	toxaphene-2					18.970	23.531

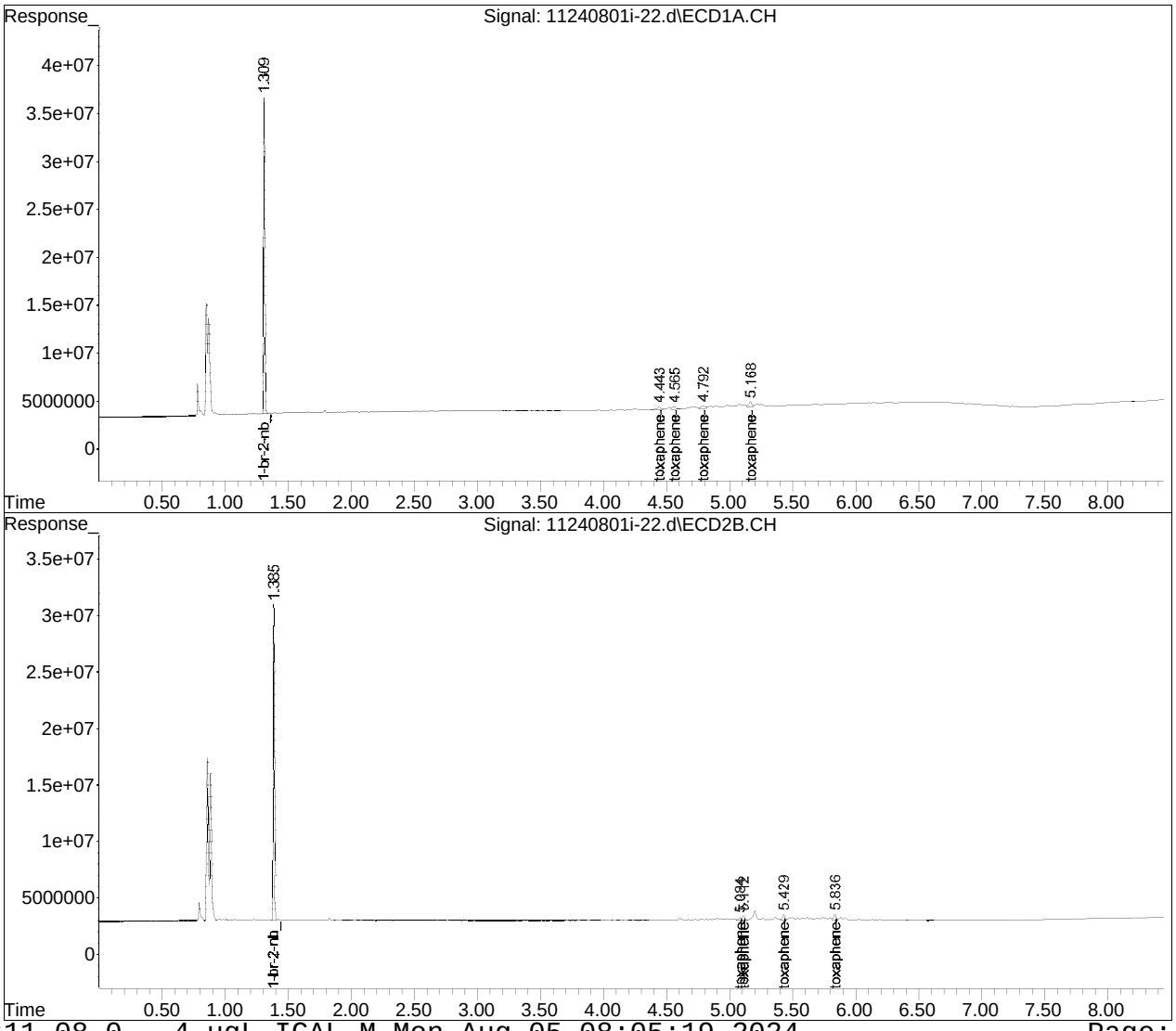
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:24
Operator : PEST11:ejl
Sample : il3tox,42e,,pp 11703 L0.02
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:25:16 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:25:08 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

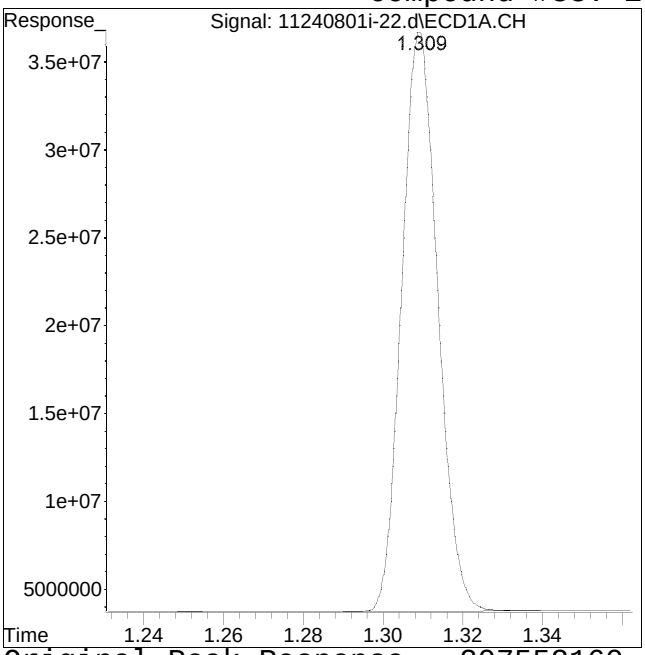


Manual Integration Report

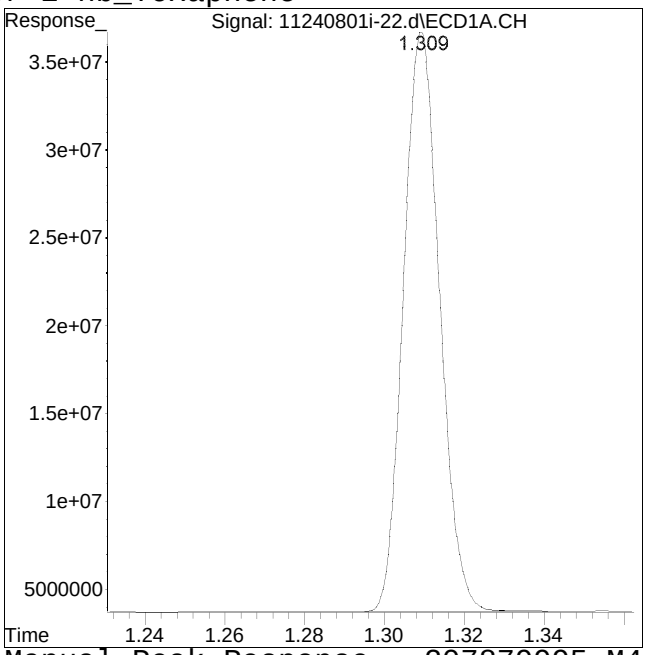
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 207552160



Manual Peak Response = 207879995 M4

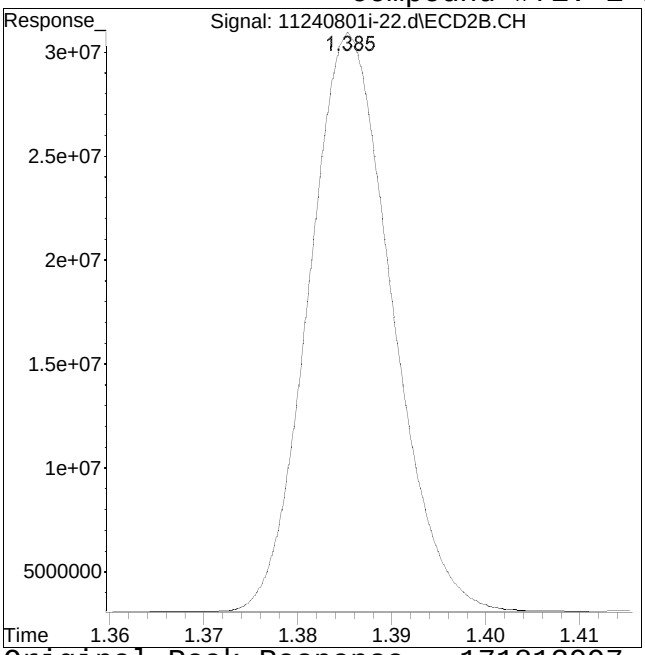
M4 = Poor automated baseline construction.

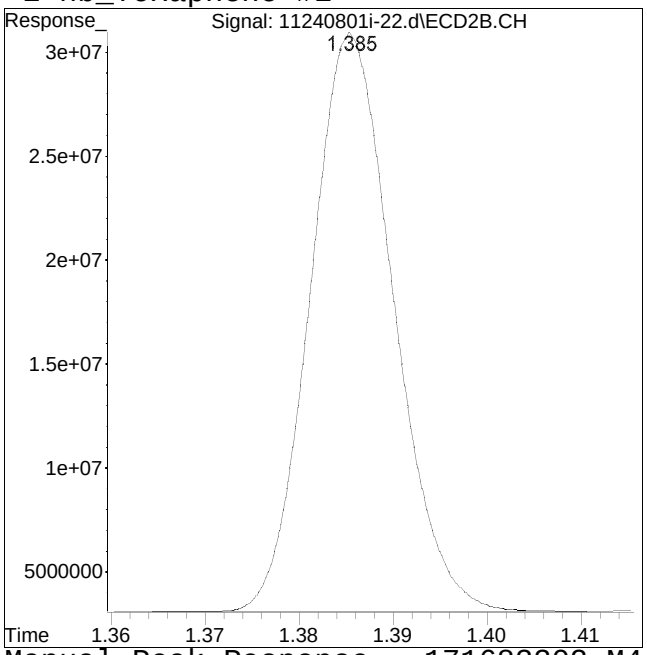
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #71: 1-br-2-nb_Toxaphene #2





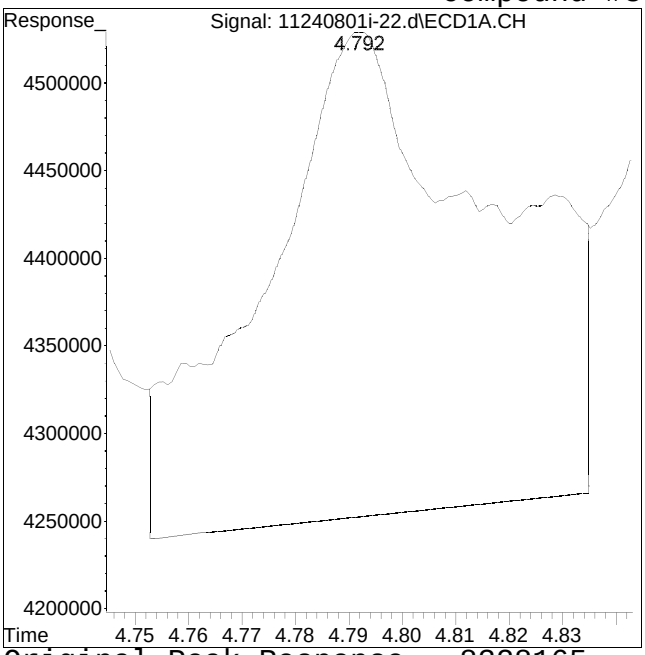
Original Peak Response = 171813997 Manual Peak Response = 171683302 M4
M4 = Poor automated baseline construction.

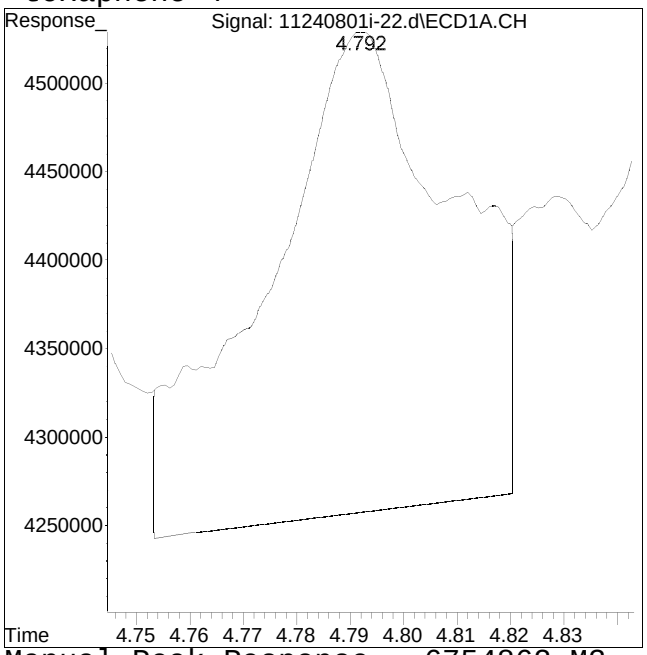
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #36: toxaphene-4





Original Peak Response = 8328165 Manual Peak Response = 6754862 M3

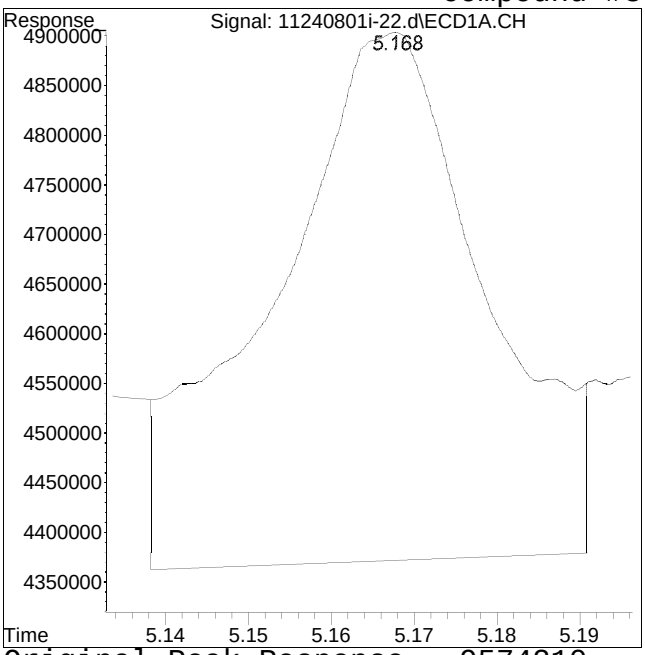
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

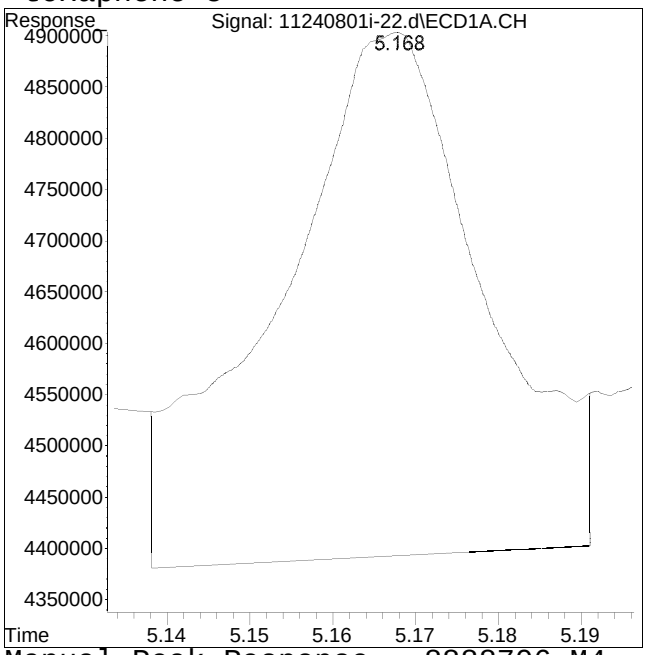
Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-22.d
Date Inj'd : 8/1/2024 22:24
Sample : il3tox,42e,,pp 11703 L0.02

Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:25 pm

Compound #37: toxaphene-5



Original Peak Response = 9574210



Manual Peak Response = 8888706 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	214.5E6	175.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	39578469	19576926	83.312	119.105
35) l2	toxaphene-3	4.566	5.112	30033204	28384507	81.420	116.744
36) l2	toxaphene-4	4.791	5.429	33900580	32843972	91.845M3	112.974
37) l2	toxaphene-5	5.168	5.836	35593892	31255677	105.126	116.675
Sum	toxaphene-2			139.1E6	112.1E6	361.703	465.498
Average	toxaphene-2					90.426	116.374

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			139.1E6	112.1E6	361.703	465.498
Average	toxaphene-2					90.426	116.374

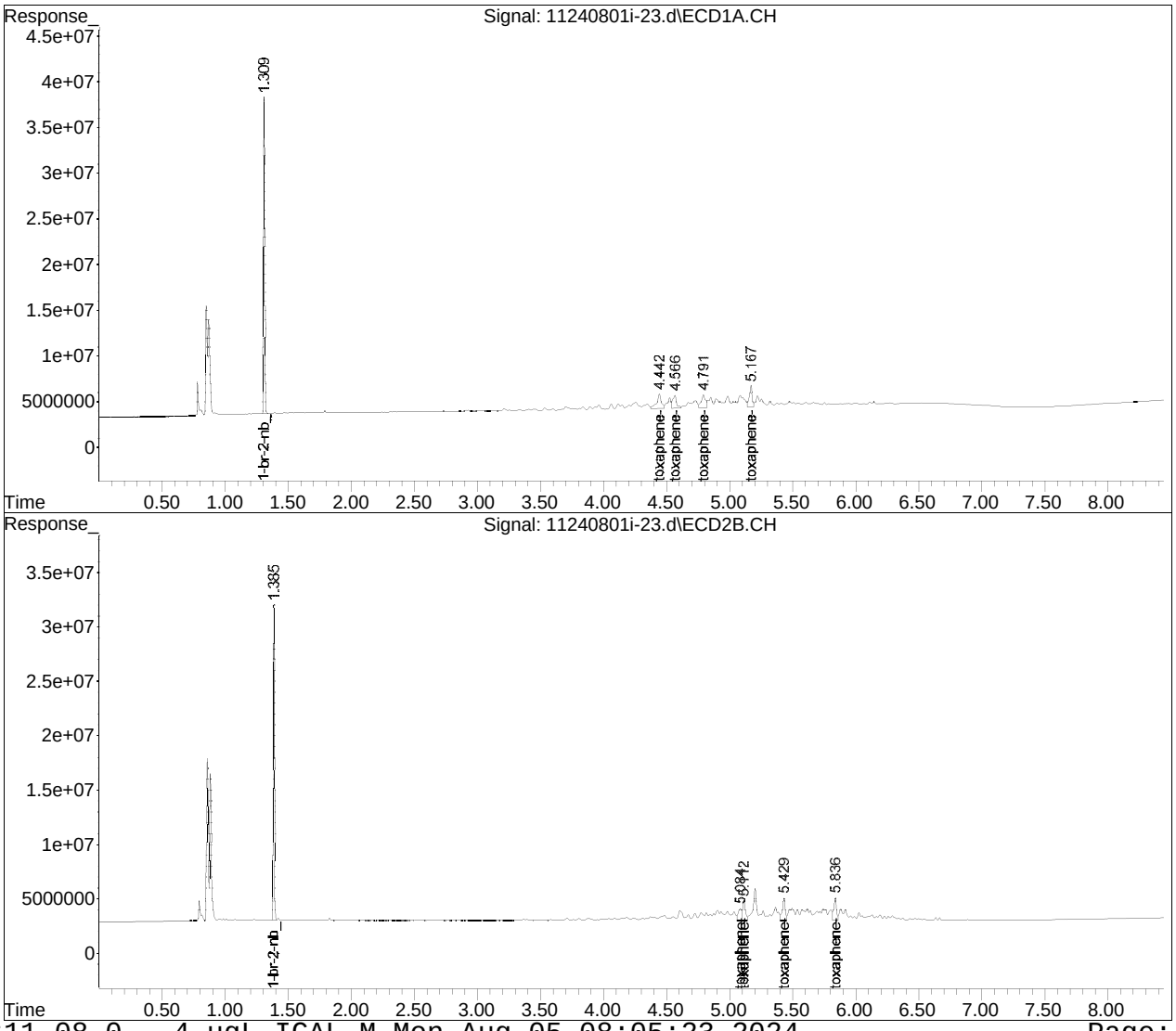
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:36
Operator : PEST11:ejl
Sample : il4tox,42e,,pp 11702 L0.1
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:57 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:23:47 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

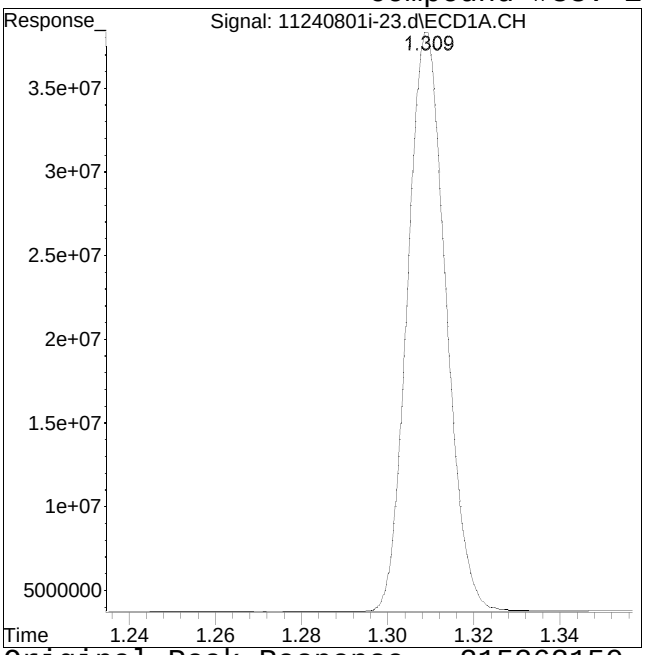
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

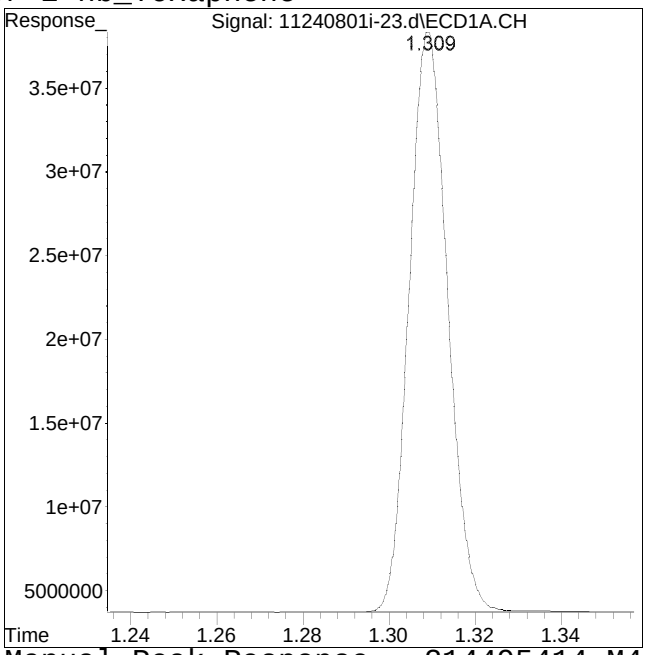


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #33: 1-br-2-nb_Toxaphene



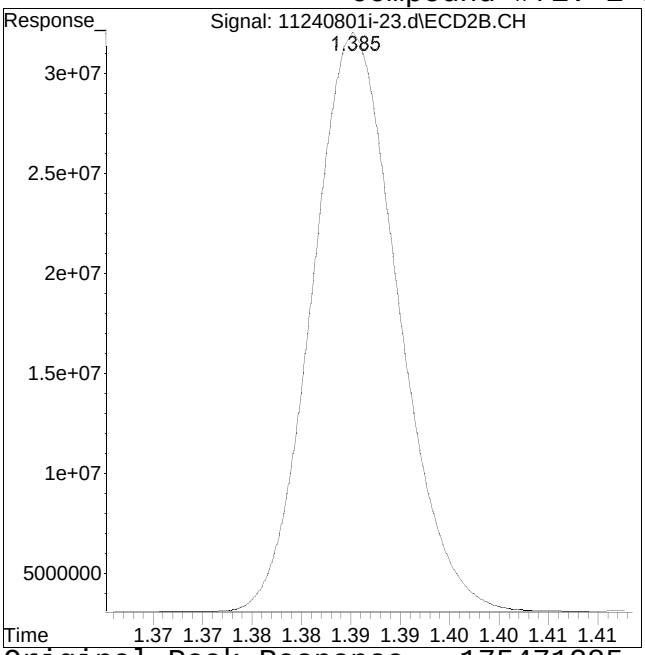


Original Peak Response = 215262150 Manual Peak Response = 214495414 M4
M4 = Poor automated baseline construction.

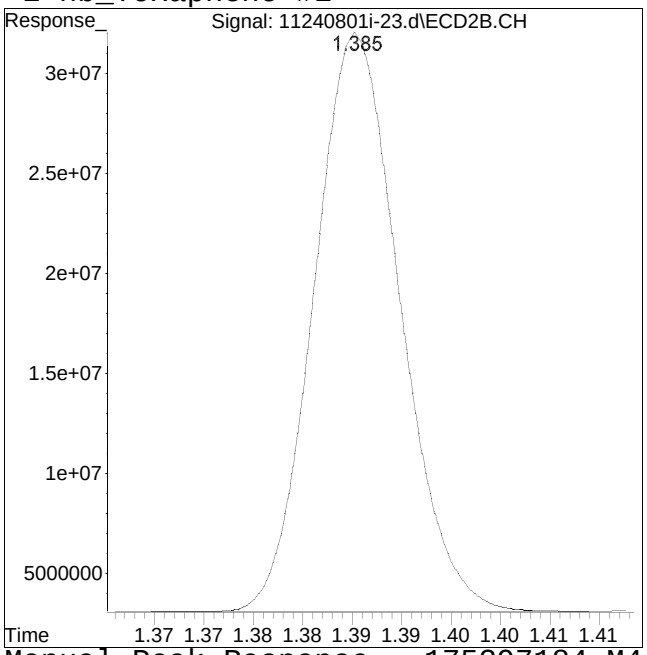
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801Q
Data File : 11240801i-23.d
Date Inj'd : 8/1/2024 22:36
Sample : il4tox,42e,,pp 11702 L0.1
Method : pest11_08_01_24_ugL_ICAL
Operator : PEST11:ejl
Instrument : Pest 11
Quant Date : 8/2/2024 12:23 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 175471285



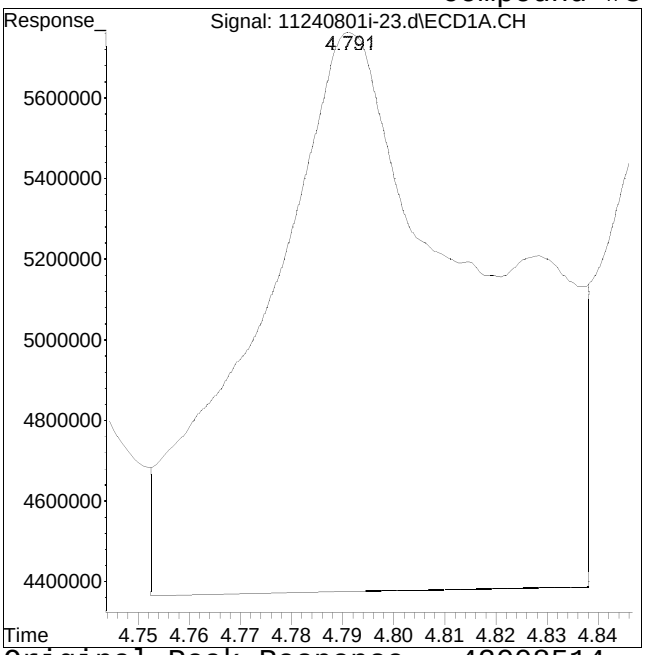
Manual Peak Response = 175397184 M4

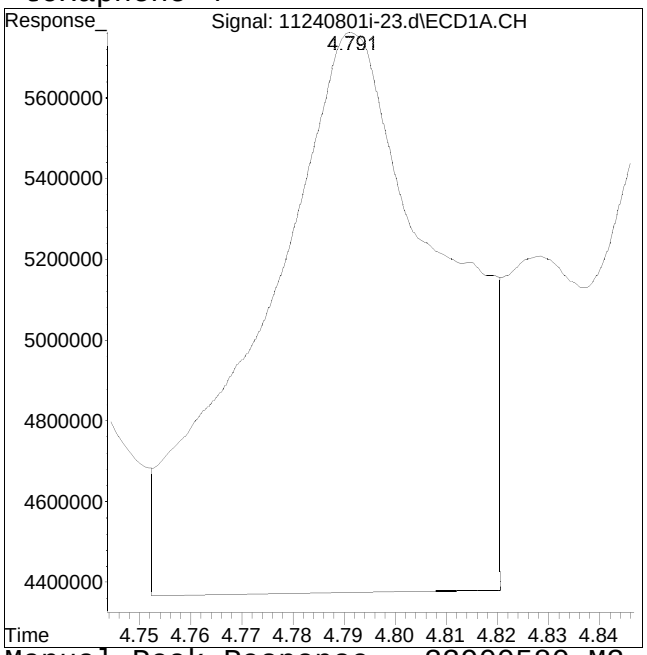
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-23.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:36 Instrument : Pest 11
Sample : il4tox,42e,,pp 11702 L0.1 Quant Date : 8/2/2024 12:23 pm

Compound #36: toxaphene-4





Original Peak Response = 42008514 Manual Peak Response = 33900580 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	217.4E6	172.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.442	5.084	475.5E6	162.1E6	981.231	1002.404
35) l2	toxaphene-3	4.566	5.112	362.8E6	238.4E6	956.095	993.623
36) l2	toxaphene-4	4.792	5.429	362.1E6	283.2E6	952.261	983.638
37) l2	toxaphene-5	5.167	5.836	340.4E6	261.1E6	987.487	984.711
Sum	toxaphene-2			1540.8E6	944.9E6	3877.074	3964.377
Average	toxaphene-2					969.268	991.094

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			1540.8E6	944.9E6	3877.074	3964.377
Average	toxaphene-2					969.268	991.094

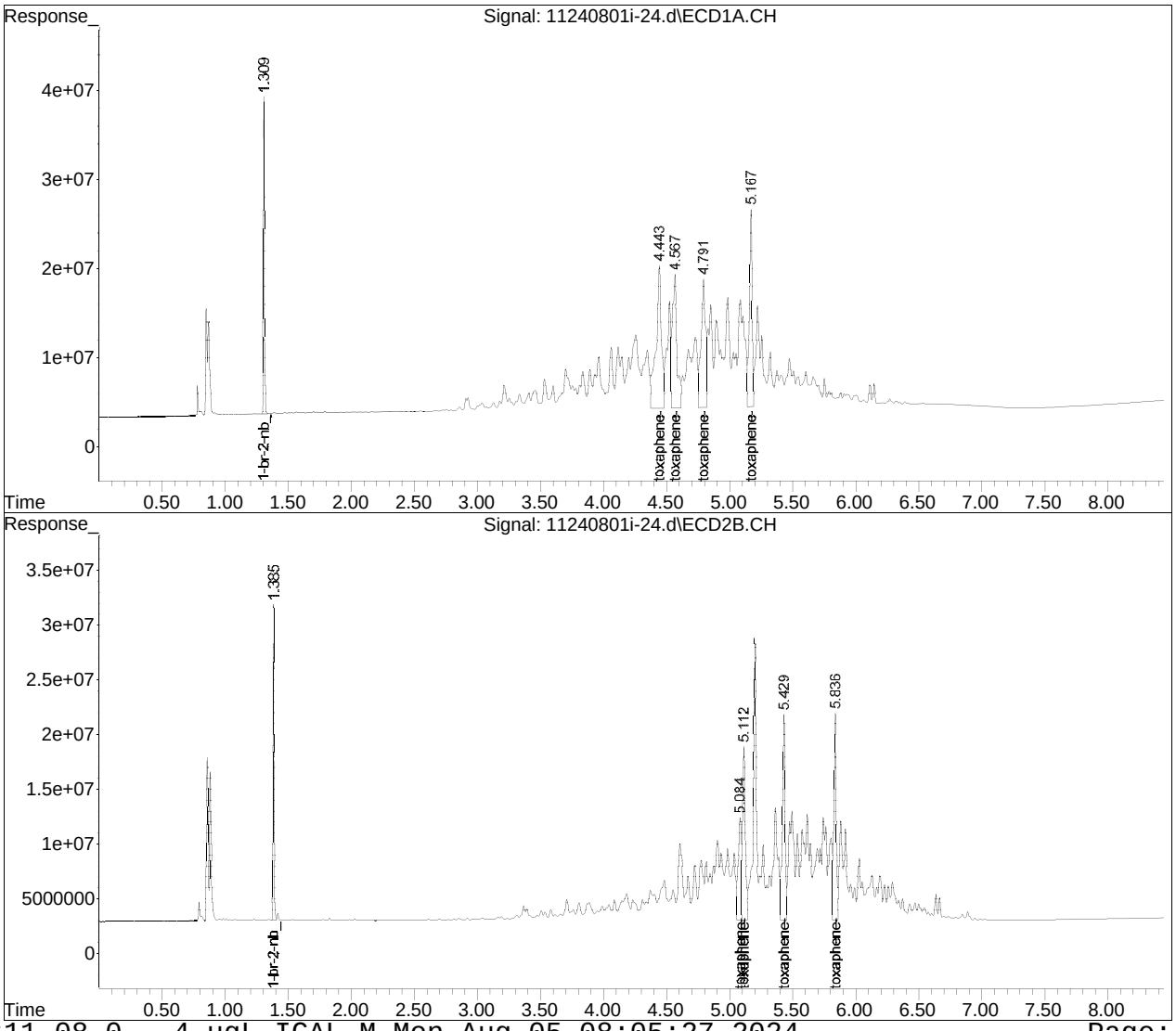
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:47
Operator : PEST11:ejl
Sample : il7tox,42e,,pp 11701 L1.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:23:05 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:22:58 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

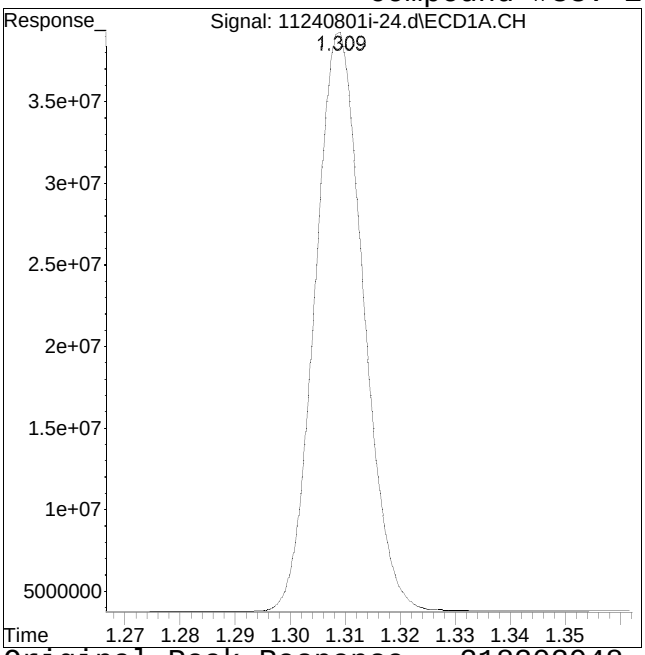
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

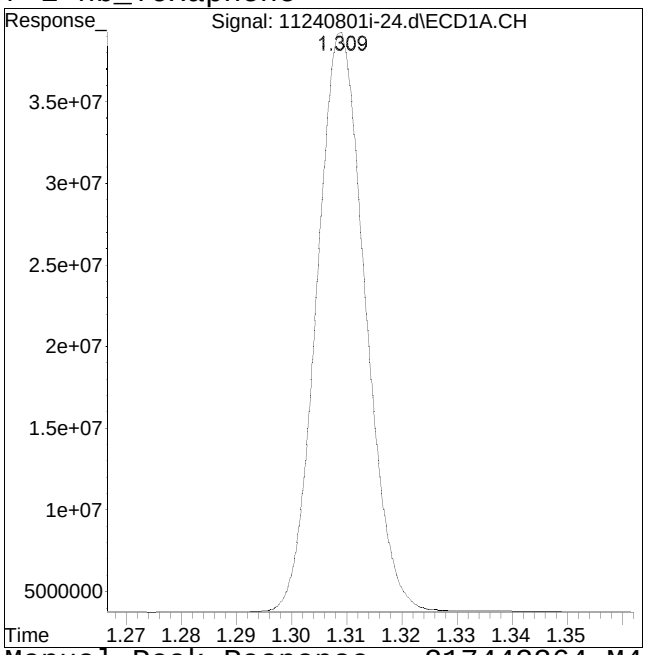


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-24.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:47 Instrument : Pest 11
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 8/2/2024 12:23 pm

Compound #33: 1-br-2-nb_Toxaphene



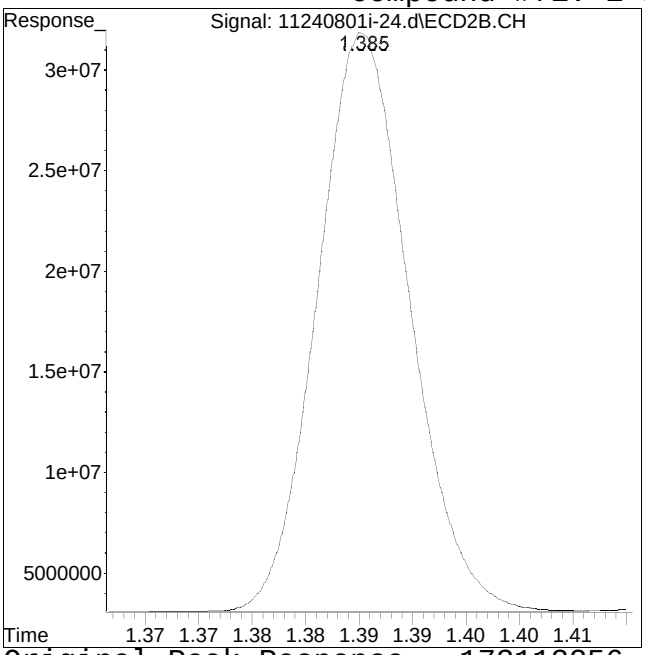


Original Peak Response = 218302948 Manual Peak Response = 217442364 M4
M4 = Poor automated baseline construction.

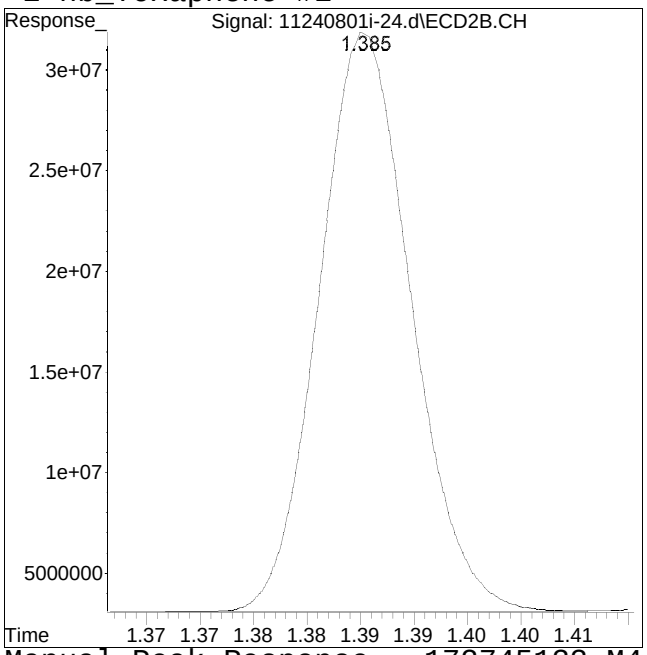
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-24.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:47 Instrument : Pest 11
Sample : il7tox,42e,,pp 11701 L1.0 Quant Date : 8/2/2024 12:23 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 173112256



Manual Peak Response = 172745133 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.385	226.5E6	177.8E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	1003.1E6	329.8E6	NoCal	NoCal
35) l2	toxaphene-3	4.567	5.112	782.8E6	491.2E6	NoCal M3	NoCal
36) l2	toxaphene-4	4.792	5.429	774.4E6	585.9E6	NoCal	NoCal
37) l2	toxaphene-5	5.168	5.836	711.9E6	540.3E6	NoCal	NoCal
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

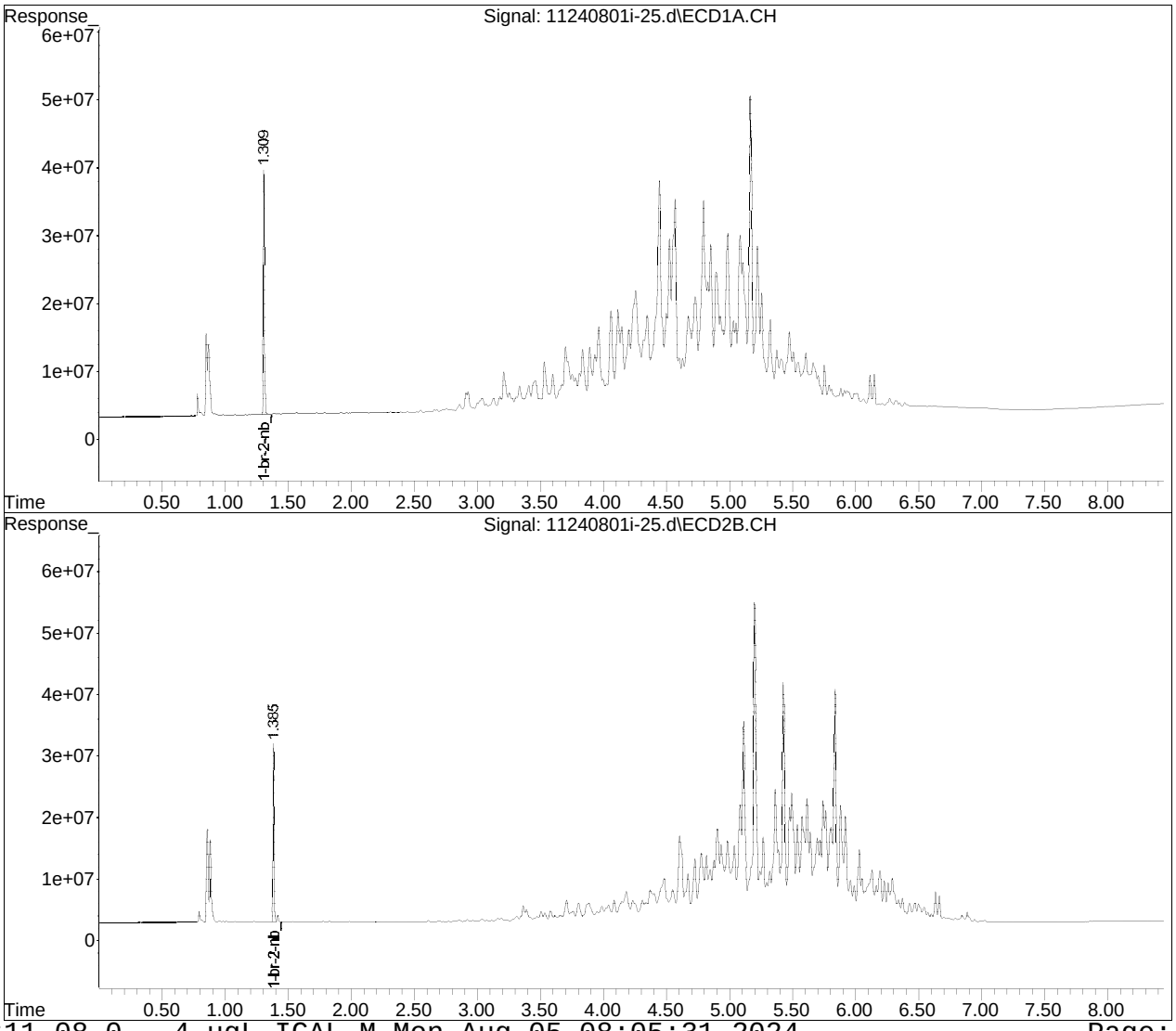
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 22:59
Operator : PEST11:ejl
Sample : il8tox,42e,,pp 11700 L2.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:20:35 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:20:26 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

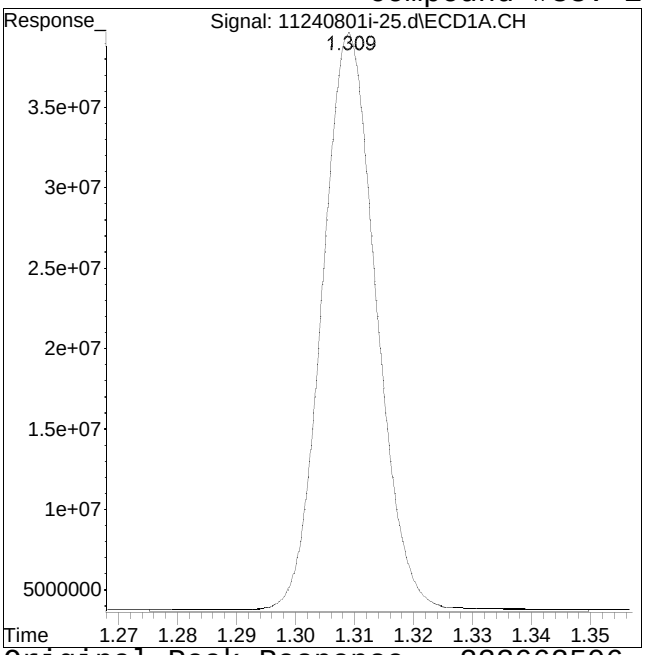
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



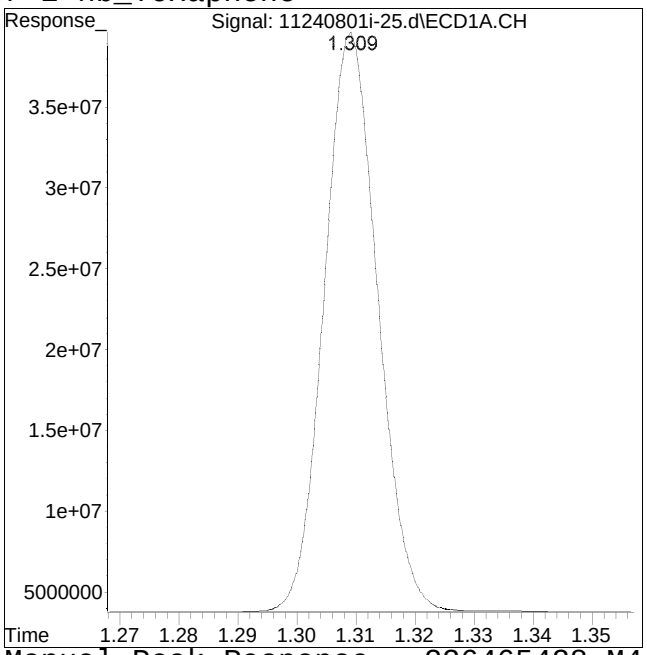
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 233662506



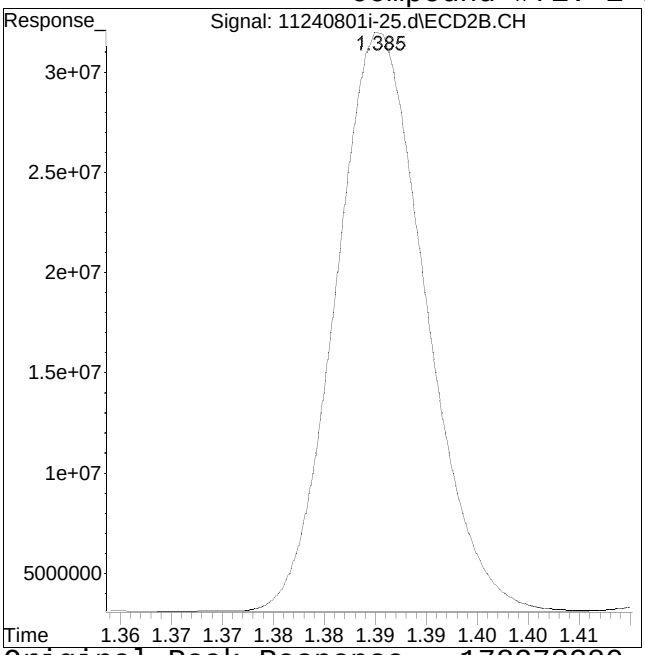
Manual Peak Response = 226465428 M4

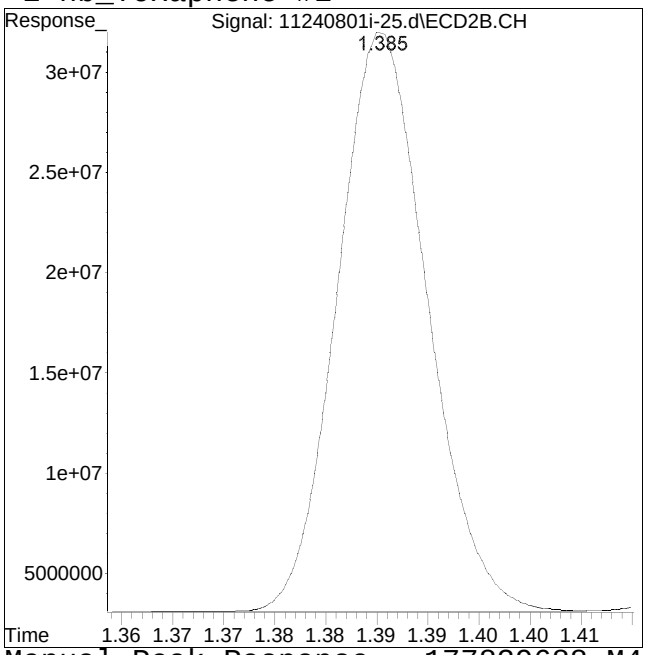
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #71: 1-br-2-nb_Toxaphene #2



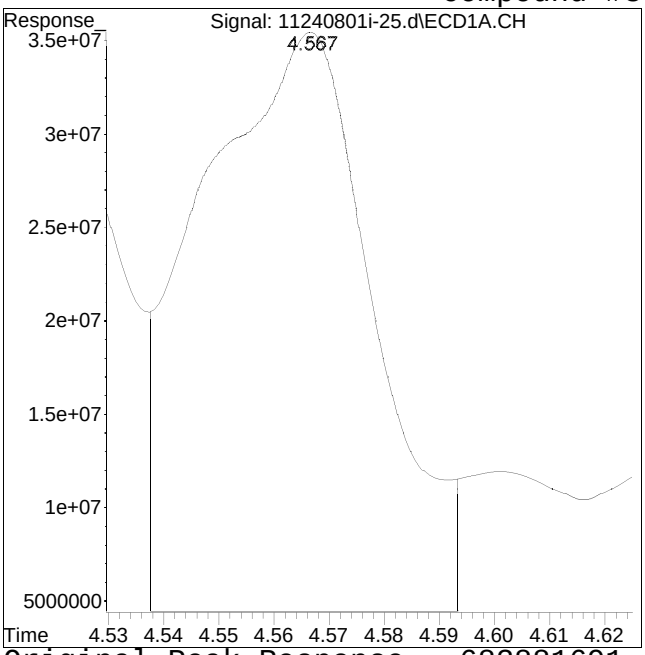


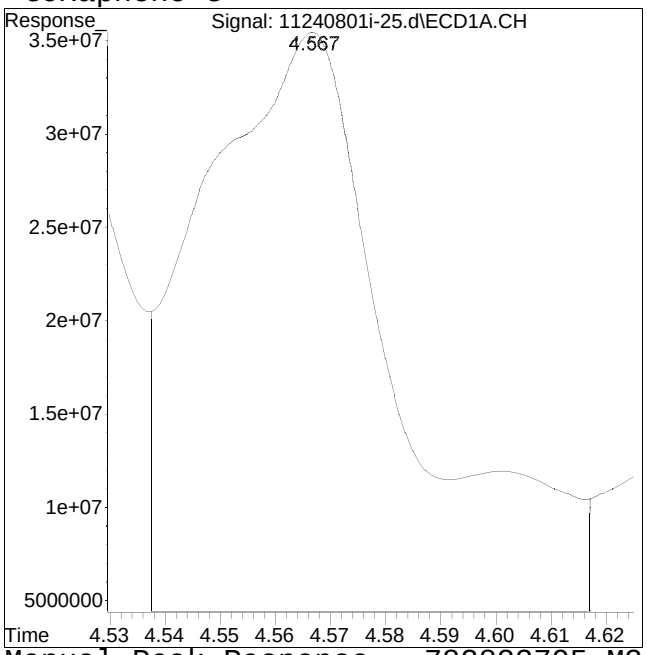
Original Peak Response = 178272380 Manual Peak Response = 177839688 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-25.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 22:59 Instrument : Pest 11
Sample : il8tox,42e,,pp 11700 L2.0 Quant Date : 8/2/2024 12:20 pm

Compound #35: toxaphene-3





Original Peak Response = 683881691 Manual Peak Response = 782823795 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.386	224.3E6	174.1E6	25.000M3	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.442	5.084	2515.7E6	823.1E6	5063.269	5099.870
35) l2	toxaphene-3	4.566	5.113	1976.6E6	1216.3E6	5097.738	5059.169
36) l2	toxaphene-4	4.791	5.430	2005.0E6	1467.5E6	5227.075M3	5116.982
37) l2	toxaphene-5	5.167	5.836	1793.0E6	1350.3E6	5084.921	5105.955
Sum	toxaphene-2			8290.1E6	4857.3E6	20473.004	20381.976
Average	toxaphene-2					5118.251	5095.494

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			8290.1E6	4857.3E6	20473.004	20381.976
Average	toxaphene-2					5118.251	5095.494

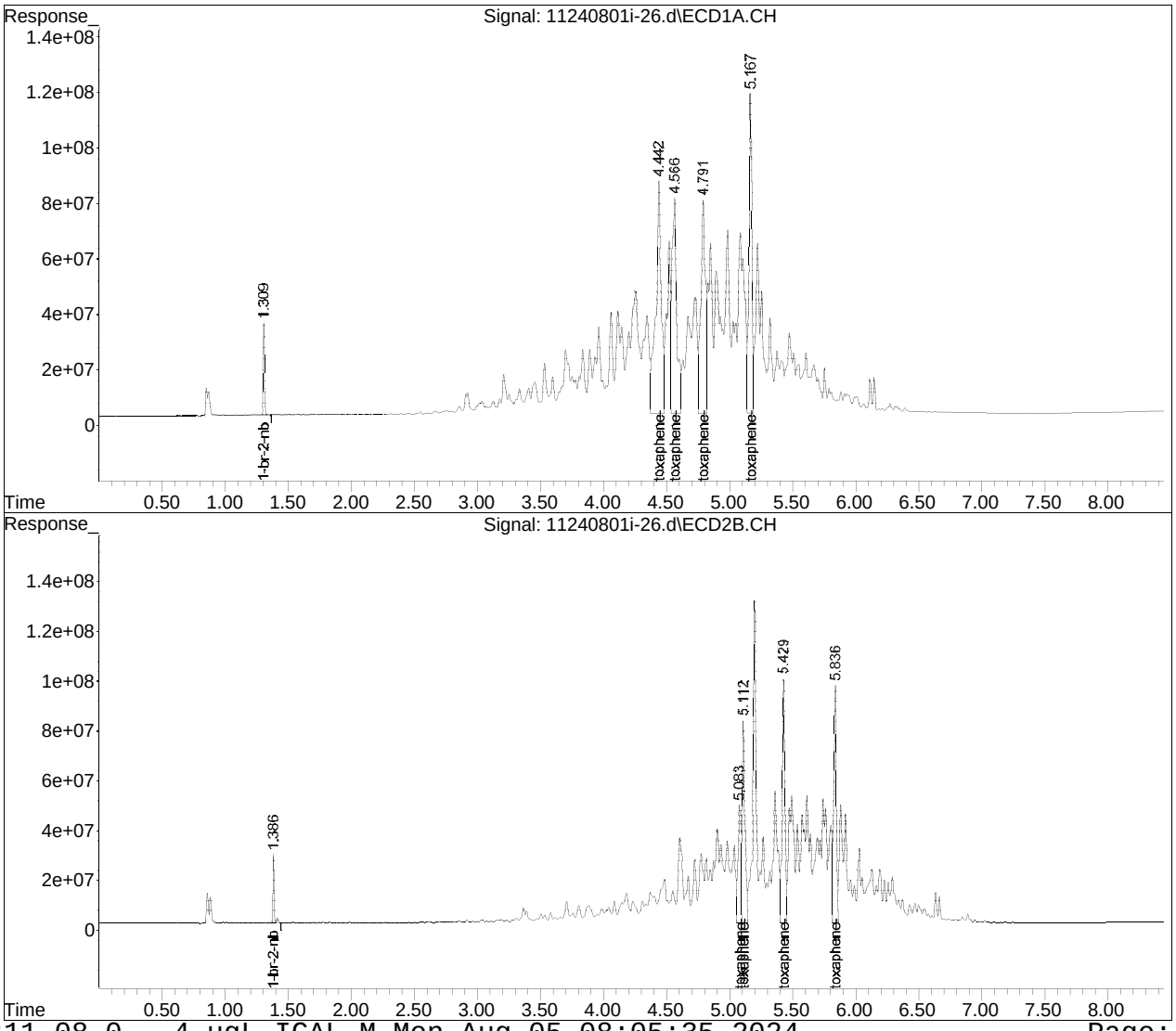
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:11
Operator : PEST11:ejl
Sample : il9tox,42e,,pp 11695 L5.0
Misc : WG1955254,ical (Sig #1); ,,ical (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:22:02 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:21:54 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

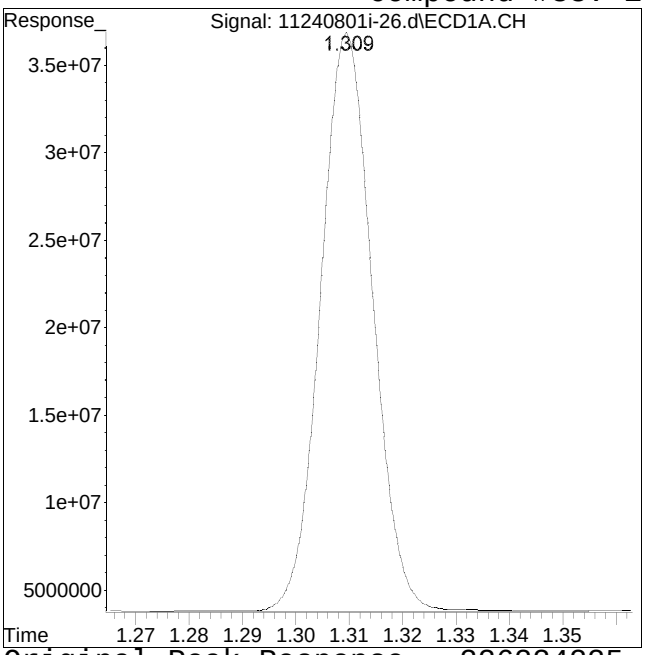
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

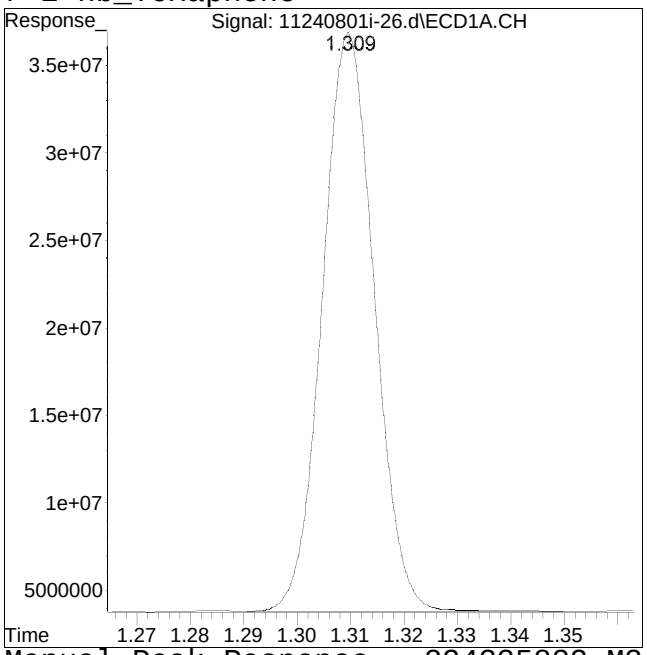


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #33: 1-br-2-nb_Toxaphene



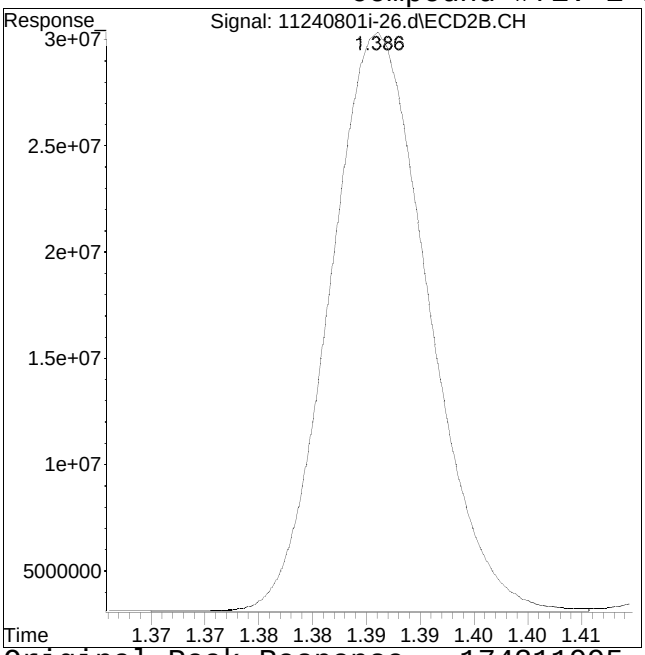


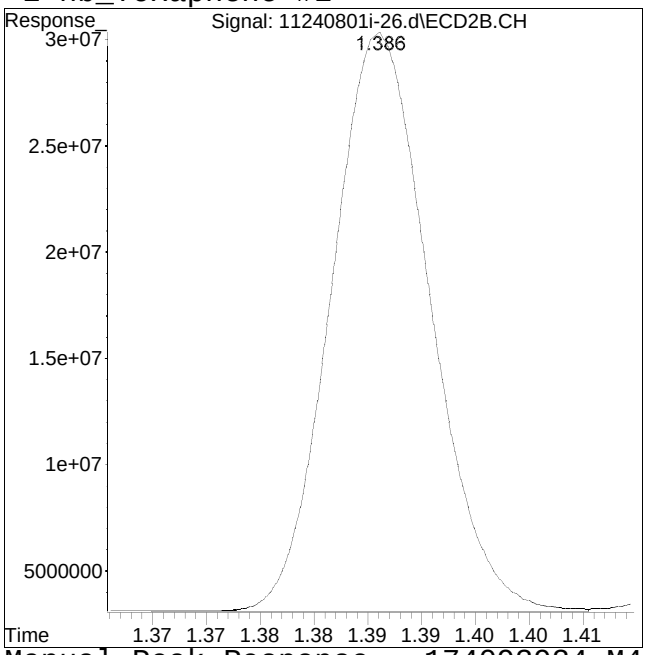
Original Peak Response = 226224225 Manual Peak Response = 224335822 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #71: 1-br-2-nb_Toxaphene #2



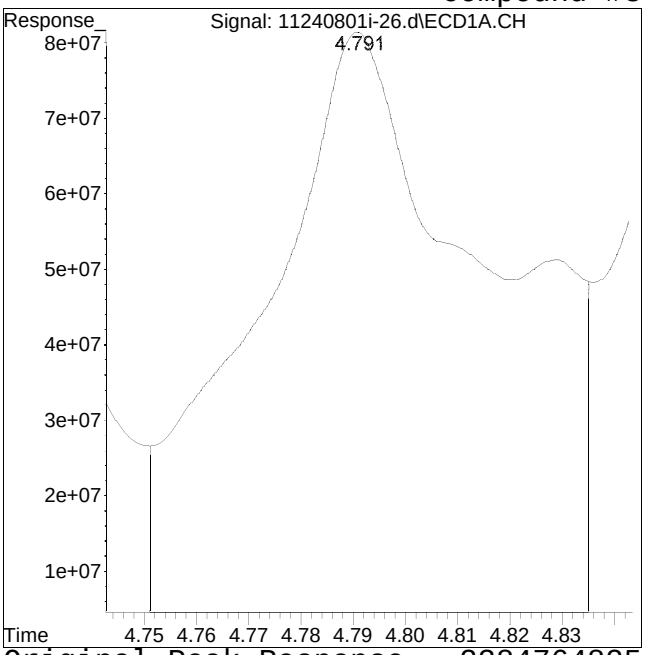


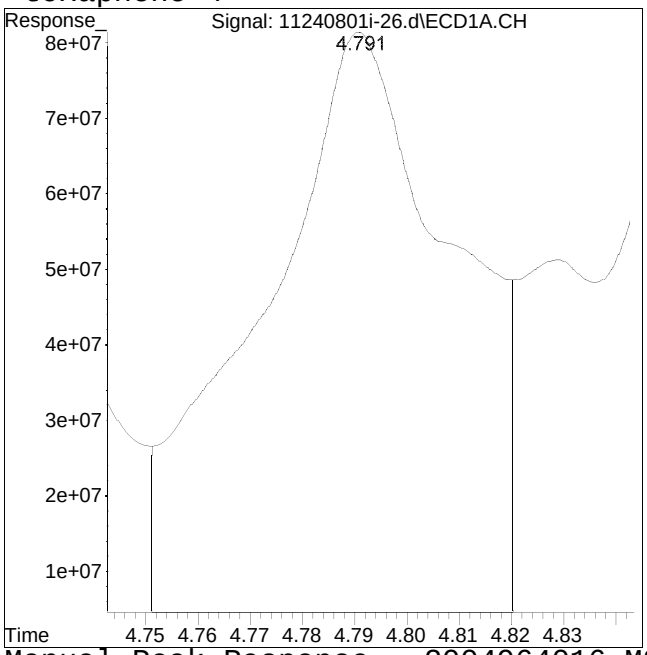
Original Peak Response = 174311995 Manual Peak Response = 174093924 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-26.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:11 Instrument : Pest 11
Sample : il9tox,42e,,pp 11695 L5.0 Quant Date : 8/2/2024 12:22 pm

Compound #36: toxaphene-4





Original Peak Response = 2384764825 Manual Peak Response = 2004964016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-2		*2000.000	1966.030	1.7	97	0.00
35	l2	toxaphene-3		*2000.000	1837.511	8.1	91	0.00
36	l2	toxaphene-4		*2000.000	1758.818	12.1	89	0.00
37	l2	toxaphene-5		*2000.000	1870.162	6.5	93	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	102	0.00
34	l2	toxaphene-2		*2000.000	1898.603	5.1	96	0.00
35	l2	toxaphene-3		*2000.000	1889.204	5.5	95	0.00
36	l2	toxaphene-4		*2000.000	1769.287	11.5	90	0.00
37	l2	toxaphene-5		*2000.000	1896.013	5.2	96	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.65#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.96#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.17#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.22#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.35#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.51#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.76#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.88#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.97#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.30#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.56#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.66#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.69#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.96#
18	t	Endrin		1.153	0.000	100.0#	0#	-4.21#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.32#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.45#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.62#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.87#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-5.10#
24	t	Mirex		0.938	0.000	100.0#	0#	-5.16#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.26#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.49#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.29#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.45#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.87#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.42#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.55#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.39#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.86#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.18#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.27#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.56#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.62#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.89#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample   : cicvtox,42e,,pp 11668 L2.0ICV
Misc   : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.95#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.27#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-3.15#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.51#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.88#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-4.10#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.27#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.47#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.34#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.63#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.93#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-5.05#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-5.13#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.33#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.42#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.89#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.02#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.65#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-6.06#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.92#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.39#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.82#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.42#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.10#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.28#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.309	1.386	223.1E6	177.4E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.443	5.084	975.4E6	317.3E6	1966.030	1898.603
35) l2	toxaphene-3	4.567	5.112	712.2E6	467.1E6	1837.511	1889.204
36) l2	toxaphene-4	4.792	5.430	686.8E6	525.1E6	1758.818M3	1769.287
37) l2	toxaphene-5	5.168	5.836	662.9E6	518.4E6	1870.162	1896.013
Sum	toxaphene-2			3037.3E6	1827.9E6	7432.520	7453.107
Average	toxaphene-2					1858.130	1863.277

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			3037.3E6	1827.9E6	7432.520	7453.107
Average	toxaphene-2					1858.130	1863.277

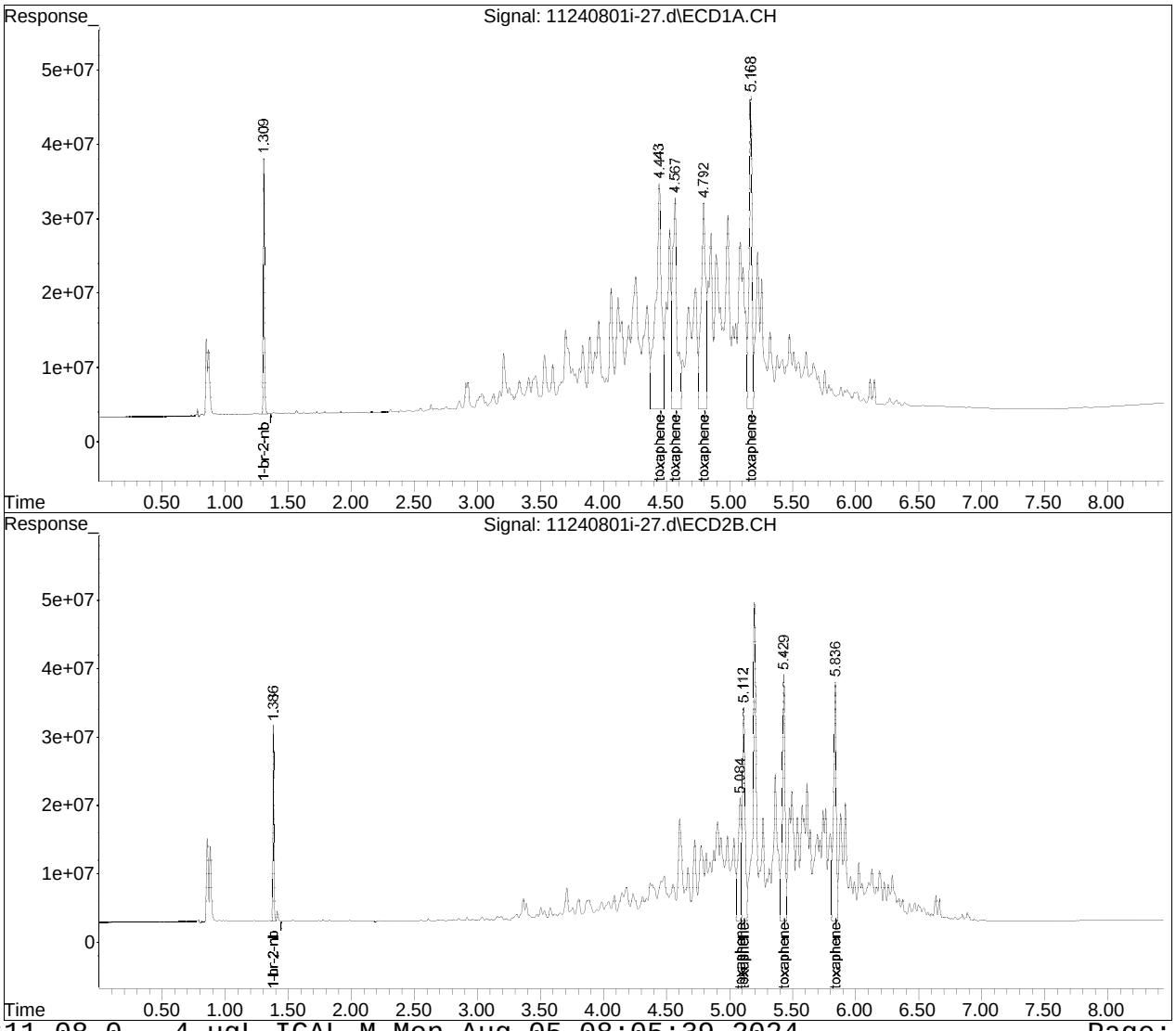
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240801ical\
Data File : 11240801i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 01 Aug 2024 23:23
Operator : PEST11:ejl
Sample : cicvtox,42e,,pp 11668 L2.0ICV
Misc : WG1955254,ical
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Aug 02 12:29:24 2024
Quant Method : I:\PEST\Pest11\2024\240801ical\pest11_08_01_24_ugL_ICAL.M
Quant Title : pest
QLast Update : Fri Aug 02 12:29:24 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

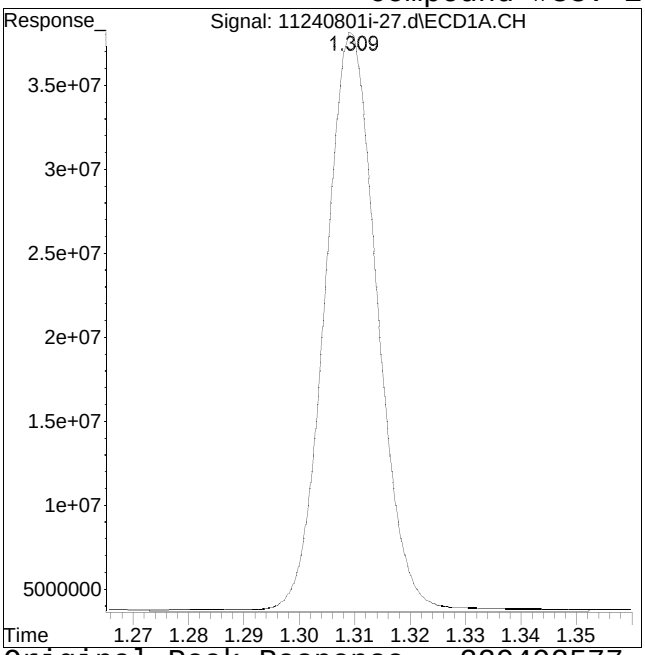
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

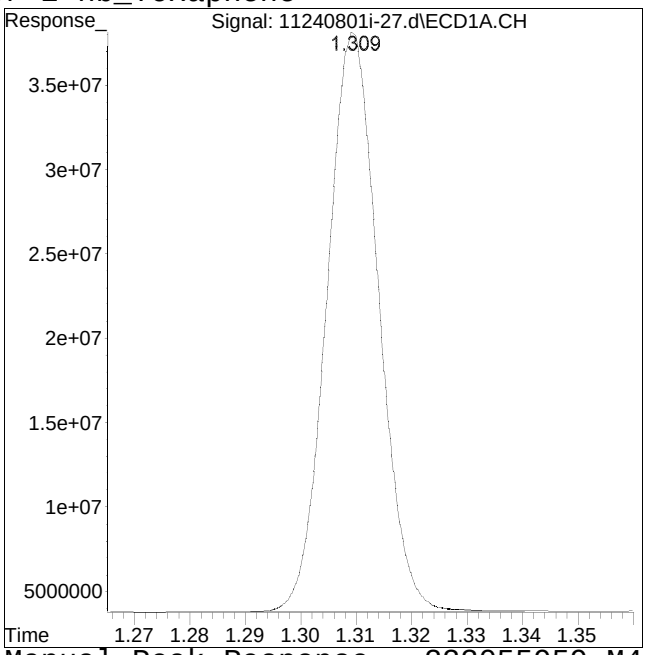


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-27.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:23 Instrument : Pest 11
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/2/2024 12:29 pm

Compound #33: 1-br-2-nb_Toxaphene



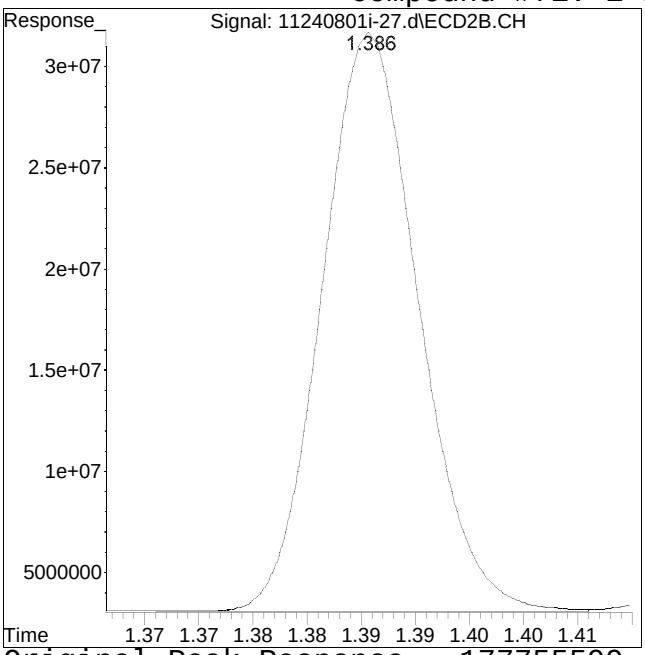


Original Peak Response = 229492577 Manual Peak Response = 223055959 M4
M4 = Poor automated baseline construction.

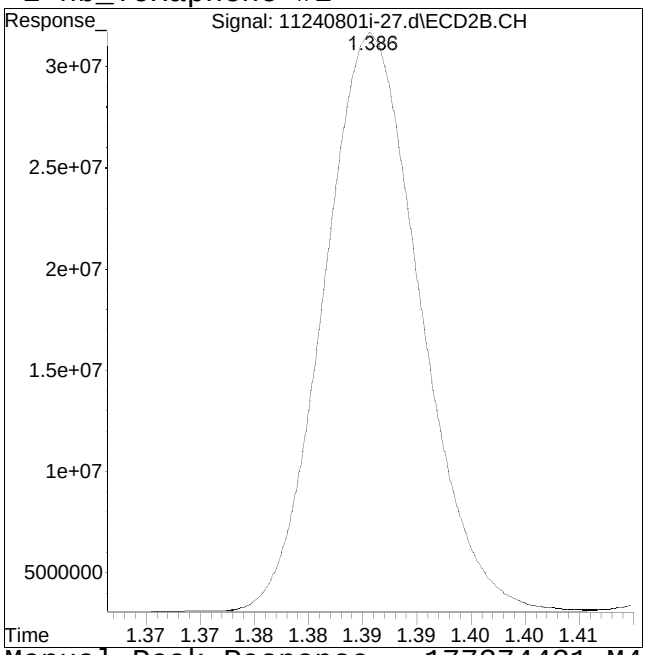
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-27.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:23 Instrument : Pest 11
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/2/2024 12:29 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 177755599

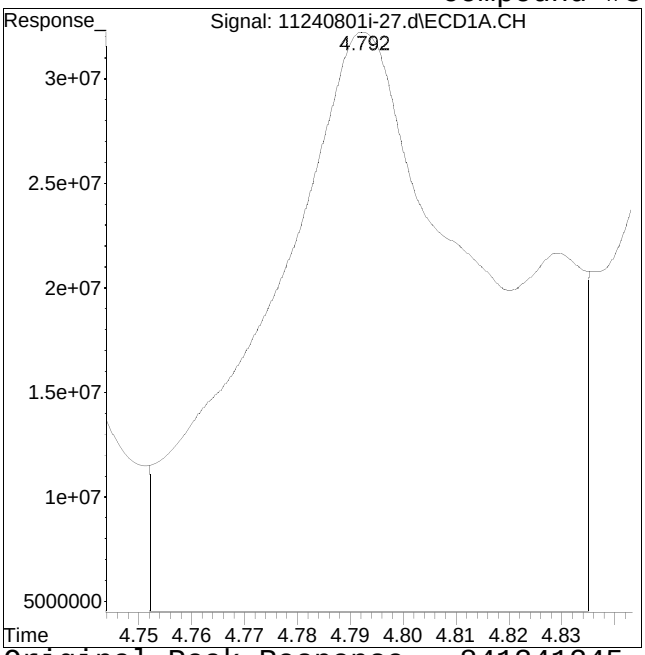


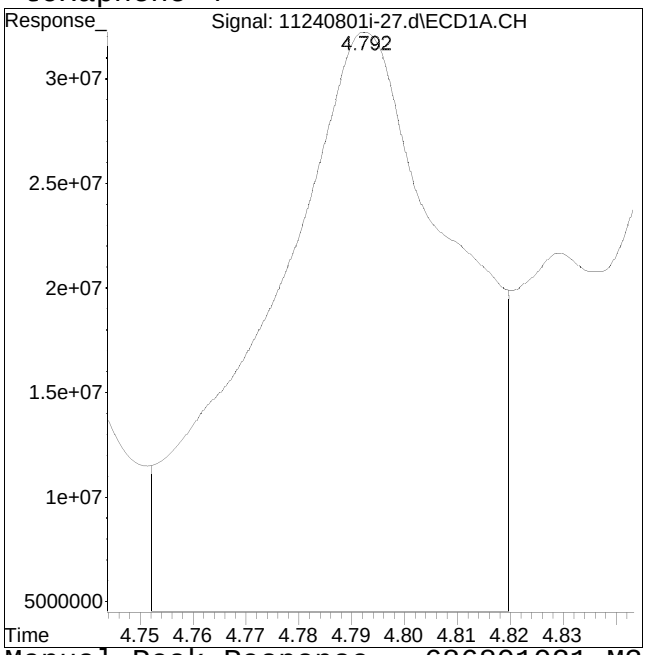
Manual Peak Response = 177374421 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240801QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240801i-27.d Operator : PEST11:ejl
Date Inj'd : 8/1/2024 23:23 Instrument : Pest 11
Sample : cicvtox,42e,,pp 11668 L2.0Quant Date : 8/2/2024 12:29 pm

Compound #36: toxaphene-4





Original Peak Response = 841341245 Manual Peak Response = 686801021 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Relative Error Report Pest 11

Method Path : I:\PEST\Pest11\2024\240801ical\
Method File : pest11_08_01_24_ugL_ICAL.M
Title : pest
Last Update : Fri Aug 02 12:29:15 2024

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
29	L1 chlordane-1	L	ug/l	1000.0	1038.450	3.8	10.00	9.627	-3.7
30	L1 chlordane-3	L	ug/l	1000.0	1075.547	7.6	10.00	7.099	-29.0
31	L1 chlordane-4	L	ug/l	1000.0	1057.641	5.8	10.00	9.470	-5.3
32	L1 chlordane-5	L	ug/l	1000.0	1065.479	6.5	10.00	9.042	-9.6
34	L2 toxaphene-2	L	ug/l	2000.0	1991.278	-0.4	20.00	22.016	10.1
35	L2 toxaphene-3	L	ug/l	2000.0	1988.580	-0.6	20.00	22.909	14.5
36	L2 toxaphene-4	L	ug/l	2000.0	1952.950	-2.4	20.00	22.256	11.3
37	L2 toxaphene-5	L	ug/l	2000.0	1978.581	-1.1	20.00	20.714	3.6
44	T beta-BHC #2	L	ug/l	50.0	50.907	1.8	1.00	0.790	-21.0
48	T Alachlor #2	L	ug/l	50.0	53.910	7.8	2.00	1.484	-25.8
49	T Chlorpyrifos #2	L	ug/l	50.0	52.668	5.3	2.00	1.609	-19.6
60	T Endrin Aldehyde #2	L	ug/l	50.0	50.418	0.8	1.00	0.856	-14.4
62	T Mirex #2	L	ug/l	50.0	50.877	1.8	2.00	1.727	-13.6
67	L1 chlordane-1 #2	L	ug/l	1000.0	1065.397	6.5	10.00	7.110	-28.9
68	L1 chlordane-3 #2	L	ug/l	1000.0	1115.565	11.6	10.00	5.208	-47.9
69	L1 chlordane-4 #2	L	ug/l	1000.0	1071.147	7.1	10.00	8.535	-14.6
70	L1 chlordane-5 #2	L	ug/l	1000.0	1069.213	6.9	10.00	8.307	-16.9
72	L2 toxaphene-2 #2	L	ug/l	2000.0	1968.160	-1.6	20.00	17.722	-11.4
73	L2 toxaphene-3 #2	L	ug/l	2000.0	1981.747	-0.9	20.00	18.240	-8.8
74	L2 toxaphene-4 #2	L	ug/l	2000.0	1969.518	-1.5	20.00	19.050	-4.7
75	L2 toxaphene-5 #2	L	ug/l	2000.0	1971.269	-1.4	20.00	18.840	-5.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
29	L1 chlordane-1	Linear	0.999348	0.000000	0.0363716	0.00108757
30	L1 chlordane-3	Linear	0.997393	0.000000	0.0421132	0.0078182
31	L1 chlordane-4	Linear	0.998643	0.000000	0.155448	0.0068286
32	L1 chlordane-5	Linear	0.998228	0.000000	0.238606	0.0109807
34	L2 toxaphene-2	Linear	0.999824	0.000000	0.055848	-0.0188813
35	L2 toxaphene-3	Linear	0.999518	0.000000	0.0436385	-0.01444
36	L2 toxaphene-4	Linear	0.999238	0.000000	0.0438591	-0.00655081
37	L2 toxaphene-5	Linear	0.999880	0.000000	0.0395938	0.00995327
44	T beta-BHC #2	Linear	0.999559	0.000000	0.62395	0.0144288
48	T Alachlor #2	Linear	0.996730	0.000000	0.176781	0.0129204
49	T Chlorpyrifos #2	Linear	0.998303	0.000000	0.678141	0.0439823
60	T Endrin Aldehyde #2	Linear	0.999312	0.000000	0.92637	0.0145142
62	T Mirex #2	Linear	0.999318	0.000000	0.884014	0.0427365
67	L1 chlordane-1 #2	Linear	0.996325	0.000000	0.0369026	0.0110712
68	L1 chlordane-3 #2	Linear	0.991238	0.000000	0.0403855	0.0197671
69	L1 chlordane-4 #2	Linear	0.995940	0.000000	0.155283	0.0303717
70	L1 chlordane-5 #2	Linear	0.996066	0.000000	0.119242	0.0251686
72	L2 toxaphene-2 #2	Linear	0.999654	0.000000	0.0234841	0.00538869
73	L2 toxaphene-3 #2	Linear	0.999781	0.000000	0.0347383	0.00824347
74	L2 toxaphene-4 #2	Linear	0.999739	0.000000	0.0417228	0.00770414
75	L2 toxaphene-5 #2	Linear	0.999723	0.000000	0.0383851	0.0113923

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/24/24 21:24		
Lab File ID	: 11240924b-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1975804-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	126	0
2,4,5,6-Tetrachloro-m-xylen	1.039	1.342	-	-29.2*	20	158	0
Hexachlorobenzene	1.406	1.437	-	-2.2	20	131	0
alpha-BHC	1.461	2.094	-	-43.3*	20	162	0
gamma-BHC (lindane)	1.395	1.875	-	-34.4*	20	158	0
beta-BHC	0.628	0.786	-	-25.2*	20	158	0
delta-BHC	1.374	1.864	-	-35.7*	20	155	0
Heptachlor	1.321	1.827	-	-38.3*	20	165	0
Aldrin	1.233	1.716	-	-39.2*	20	163	0
Alachlor	0.23	0.232	-	-0.9	20	126	0
Chlorpyrifos	0.59	0.798	-	-35.3*	20	181	0
Heptachlor Epoxide	1.185	1.56	-	-31.6*	20	159	0
gamma-Chlordane (trans)	1.077	1.644	-	-52.6*	20	187	0
alpha-Chlordane (cis)	1.216	1.615	-	-32.8*	20	162	0
4,4'-DDE	1.192	1.608	-	-34.9*	20	161	0
Endosulfan I	1.116	1.476	-	-32.3*	20	160	0
Dieldrin	1.135	1.684	-	-48.4*	20	176	0
Endrin	1.153	1.595	-	-38.3*	20	164	0
4,4'-DDD	0.927	1.342	-	-44.8*	20	172	0
Endosulfan II	1.052	1.436	-	-36.5*	20	164	0
4,4'-DDT	1.058	1.449	-	-37*	20	164	0
Endrin Aldehyde	0.886	1.077	-	-21.6*	20	150	0
Methoxychlor	0.592	0.793	-	-34*	20	172	0
Mirex	0.938	1.222	-	-30.3*	20	170	0
Endosulfan Sulfate	1.01	1.399	-	-38.5*	20	173	0
Endrin Ketone	1.183	1.545	-	-30.6*	20	158	0
Decachlorobiphenyl	1.163	1.248	-	-7.3	20	147	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720		
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005		
Instrument ID	: PEST11	**Calibration Date**	: 09/24/24 21:24		
Lab File ID	: 11240924b-03	**Init. Calib. Date(s)**	: 08/01/24	08/01/24	
Sample No	: WG1975804-1	**Init. Calib. Times**	: 18:37	23:11	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	105	0
2,4,5,6-Tetrachloro-m-xyl	1.114	1.27	-	-14	20	120	0
Hexachlorobenzene	1.239	1.335	-	-7.7	20	119	0
alpha-BHC	1.62	1.894	-	-16.9	20	115	0
gamma-BHC (lindane)	1.539	1.697	-	-10.3	20	114	0
beta-BHC	50	57.045	-	-14.1	20	114	0
delta-BHC	1.523	1.678	-	-10.2	20	111	0
Heptachlor	1.598	1.611	-	-0.8	20	106	0
Aldrin	1.435	1.512	-	-5.4	20	108	0
Alachlor	50	60.782	-	-21.6*	20	115	0
Chlorpyrifos	50	53.878	-	-7.8	20	105	0
Heptachlor Epoxide	1.425	1.39	-	2.5	20	105	0
gamma-Chlordane (trans)	1.312	1.436	-	-9.5	20	120	0
alpha-Chlordane (cis)	1.446	1.408	-	2.6	20	106	0
4,4'-DDE	1.343	1.398	-	-4.1	20	106	0
Endosulfan I	1.332	1.318	-	1.1	20	107	0
Dieldrin	1.327	1.49	-	-12.3	20	117	0
Endrin	1.347	1.419	-	-5.3	20	109	0
4,4'-DDD	1.084	1.202	-	-10.9	20	115	0
Endosulfan II	1.214	1.269	-	-4.5	20	113	0
4,4'-DDT	1.25	1.28	-	-2.4	20	107	0
Endrin Aldehyde	50	51.113	-	-2.2	20	104	0
Methoxychlor	0.704	0.688	-	2.3	20	112	0
Mirex	50	53.946	-	-7.9	20	108	0
Endosulfan Sulfate	1.199	1.225	-	-2.2	20	113	0
Endrin Ketone	1.261	1.402	-	-11.2	20	119	0
Decachlorobiphenyl	1.06	1.034	-	2.5	20	113	0

*** Value outside of QC limits.**

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/24/24 21:36
Lab File ID	: 11240924b-04	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1975804-2	**Init. Calib. Times**	: 18:37 23:11
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	129	0
chlordane-1	1000	1073.481	-	-7.3	20	135	0
chlordane-3	1000	1081.482	-	-8.1	20	131	0
chlordane-4	1000	1072.344	-	-7.2	20	132	0
chlordane-5	1000	1205.536	-	-20.6*	20	147	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/24/24 21:36
Lab File ID	: 11240924b-04	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1975804-2	**Init. Calib. Times**	: 18:37 23:11
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	113	0
chlordane-1	1000	812.665	-	18.7	20	87	0
chlordane-3	1000	837.258	-	16.3	20	85	0
chlordane-4	1000	755.059	-	24.5*	20	80	0
chlordane-5	1000	744.543	-	25.5*	20	79	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/24/24 21:48
Lab File ID	: 11240924b-05	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1975804-3	**Init. Calib. Times**	: 18:37 23:11
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	141	0
toxaphene-2	2000	2557.481	-	-27.9*	20	175	0
toxaphene-3	2000	2516.375	-	-25.8*	20	173	0
toxaphene-4	2000	2092.285	-	-4.6	20	146	0
toxaphene-5	2000	2319.671	-	-16	20	160	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Calibration Date**	: 09/24/24 21:48
Lab File ID	: 11240924b-05	**Init. Calib. Date(s)**	: 08/01/24 08/01/24
Sample No	: WG1975804-3	**Init. Calib. Times**	: 18:37 23:11
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	116	0
toxaphene-2	2000	1811.758	-	9.4	20	104	0
toxaphene-3	2000	1893.486	-	5.3	20	108	0
toxaphene-4	2000	1754.985	-	12.3	20	101	0
toxaphene-5	2000	1880.849	-	6	20	108	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 21:24
Operator : PEST11:jag
Sample   : wg1975804-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1975804,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 07:49:26 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	126	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	1.342	-29.2#	158#	0.00
3	t	Hexachlorobenzene		1.406	1.437	-2.2	131	0.00
4	t	alpha-BHC		1.461	2.094	-43.3#	162#	0.00
5	t	gamma-BHC (lindane)		1.395	1.875	-34.4#	158#	0.00
6	t	beta-BHC		0.628	0.786	-25.2#	158#	0.00
7	t	delta-BHC		1.374	1.864	-35.7#	155#	0.00
8	t	Heptachlor		1.321	1.827	-38.3#	165#	0.00
9	t	Aldrin		1.233	1.716	-39.2#	163#	0.00
10	t	Alachlor		0.230	0.232	-0.9	126	0.00
11	t	Chlorpyrifos		0.590	0.798	-35.3#	181#	0.00
12	t	Heptachlor Epoxide		1.185	1.560	-31.6#	159#	0.00
13	t	gamma-Chlordane (trans)		1.077	1.644	-52.6#	187#	0.00
14	t	alpha-Chlordane (cis)		1.216	1.615	-32.8#	162#	0.00
15	t	4,4'-DDE		1.192	1.608	-34.9#	161#	0.00
16	t	Endosulfan I		1.116	1.476	-32.3#	160#	0.00
17	t	Dieldrin		1.135	1.684	-48.4#	176#	0.00
18	t	Endrin		1.153	1.595	-38.3#	164#	0.00
19	t	4,4'-DDD		0.927	1.342	-44.8#	172#	0.00
20	t	Endosulfan II		1.052	1.436	-36.5#	164#	0.00
21	t	4,4'-DDT		1.058	1.449	-37.0#	164#	0.00
22	t	Endrin Aldehyde		0.886	1.077	-21.6#	150#	0.00
23	t	Methoxychlor		0.592	0.793	-34.0#	172#	0.00
24	t	Mirex		0.938	1.222	-30.3#	170#	0.00
25	t	Endosulfan Sulfate		1.010	1.399	-38.5#	173#	0.00
26	t	Endrin Ketone		1.183	1.545	-30.6#	158#	0.00
27	s	Decachlorobiphenyl		1.163	1.248	-7.3	147	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 21:24
Operator : PEST11:jag
Sample   : wg1975804-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1975804,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 07:49:26 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	105	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	1.270	-14.0	120	0.00
3	t	Hexachlorobenzene		1.239	1.335	-7.7	119	0.00
4	t	alpha-BHC		1.620	1.894	-16.9	115	0.00
5	t	gamma-BHC (lindane)		1.539	1.697	-10.3	114	0.00
6	t	beta-BHC	*	50.000	57.045	-14.1	114	0.00
7	t	delta-BHC		1.523	1.678	-10.2	111	0.00
8	t	Heptachlor		1.598	1.611	-0.8	106	0.00
9	t	Aldrin		1.435	1.512	-5.4	108	0.00
10	t	Alachlor	*	50.000	60.782	-21.6#	115	0.00
11	t	Chlorpyrifos	*	50.000	53.878	-7.8	105	0.00
12	t	Heptachlor Epoxide		1.425	1.390	2.5	105	0.00
13	t	gamma-Chlordane (trans)		1.312	1.436	-9.5	120	0.00
14	t	alpha-Chlordane (cis)		1.446	1.408	2.6	106	0.00
15	t	4,4'-DDE		1.343	1.398	-4.1	106	0.00
16	t	Endosulfan I		1.332	1.318	1.1	107	0.00
17	t	Dieldrin		1.327	1.490	-12.3	117	0.00
18	t	Endrin		1.347	1.419	-5.3	109	0.00
19	t	4,4'-DDD		1.084	1.202	-10.9	115	0.00
20	t	Endosulfan II		1.214	1.269	-4.5	113	0.00
21	t	4,4'-DDT		1.250	1.280	-2.4	107	0.00
22	t	Endrin Aldehyde	*	50.000	51.113	-2.2	104	0.00
23	t	Methoxychlor		0.704	0.688	2.3	112	0.00
24	t	Mirex	*	50.000	53.946	-7.9	108	0.00
25	t	Endosulfan Sulfate		1.199	1.225	-2.2	113	0.00
26	t	Endrin Ketone		1.261	1.402	-11.2	119	0.00
27	s	Decachlorobiphenyl		1.060	1.034	2.5	113	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 21:24
Operator : PEST11:jag
Sample   : wg1975804-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc   : wg1975804,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 07:49:26 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.19#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.27#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.67#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.20#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.32#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.19#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.20#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.33#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.58#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.97#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.61#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.19#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.85#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.02#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.88#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.91#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.24#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:24
Operator : PEST11:jag
Sample : wg1975804-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 07:49:26 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.189	1.262	289.1E6	192.0E6	25.000M4	25.000
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.517	1.709	776.2E6	487.8E6	64.595M4	57.030M4
		Spiked Amount 50.000	Range 30 - 150		Recovery =		129.19%	114.06%
27)	s	Decachlorobi	6.123	6.754	721.5E6	396.9E6	53.647M4	48.751M3
		Spiked Amount 50.000	Range 30 - 150		Recovery =		107.29%	97.50%
		Target Compounds						
3)	t	Hexachlorobe	1.718	2.010	831.0E6	512.7E6	51.108M4	53.886M4
4)	t	alpha-BHC	1.811	2.098	1210.5E6	727.4E6	71.669M4	58.474M4
5)	t	gamma-BHC (l	2.002	2.368	1083.9E6	651.6E6	67.169M4	55.125M4
6)	t	beta-BHC	2.056	2.432	454.3E6	276.1E6	62.577M4	57.045M4
7)	t	delta-BHC	2.177	2.685	1077.6E6	644.3E6	67.816	55.087M4
8)	t	Heptachlor	2.331	2.742	1056.2E6	618.7E6	69.141M4	50.422M4
9)	t	Aldrin	2.561	3.044	992.5E6	580.7E6	69.595M4	52.699M4
10)	t	Alachlor	2.679	2.938	134.4E6	85004254	50.479M4	60.782M4
11)	t	Chlorpyrifos	2.768	3.277	461.2E6	289.1E6	67.617M4	53.878M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:24
Operator : PEST11:jag
Sample : wg1975804-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 07:49:26 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	t	Heptachlor E	3.080	3.634	902.2E6	533.8E6	65.806M4	48.766M4
13)	t	gamma-Chlord	3.200	3.847	950.8E6	551.2E6	76.341M4	54.723M4
14)	t	alpha-Chlord	3.329	4.015	933.8E6	540.6E6	66.387M3	48.683M4
15)	t	4,4'-DDE	3.427	4.233	929.8E6	537.0E6	67.473	52.078M4
16)	t	Endosulfan I	3.457	4.077	853.5E6	505.9E6	66.124M4	49.458
17)	t	Dieldrin	3.708	4.393	973.9E6	572.0E6	74.191M4	56.116M4
18)	t	Endrin	3.954	4.707	922.6E6	544.9E6	69.201M4	52.686M4
19)	t	4,4'-DDD	4.076	4.848	776.1E6	461.6E6	72.367M4	55.460M4
20)	t	Endosulfan I	4.208	4.918	830.0E6	487.4E6	68.225M4	52.292M4
21)	t	4,4'-DDT	4.393	5.135	837.6E6	491.7E6	68.428M4	51.212M4
22)	t	Endrin Aldeh	4.653	5.227	622.5E6	366.4E6	60.727	51.113M4
23)	t	Methoxychlor	4.914	5.721	458.6E6	264.0E6	66.996M4	48.805M3
24)	t	Mirex	4.954	5.839	706.7E6	374.5E6	65.169	53.946M3
25)	t	Endosulfan S	5.061	5.463	808.8E6	470.2E6	69.266M4	51.063M4
26)	t	Endrin Keton	5.294	5.881	893.5E6	538.4E6	65.295M3	55.609M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:24
Operator : PEST11:jag
Sample : wg1975804-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 07:49:26 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

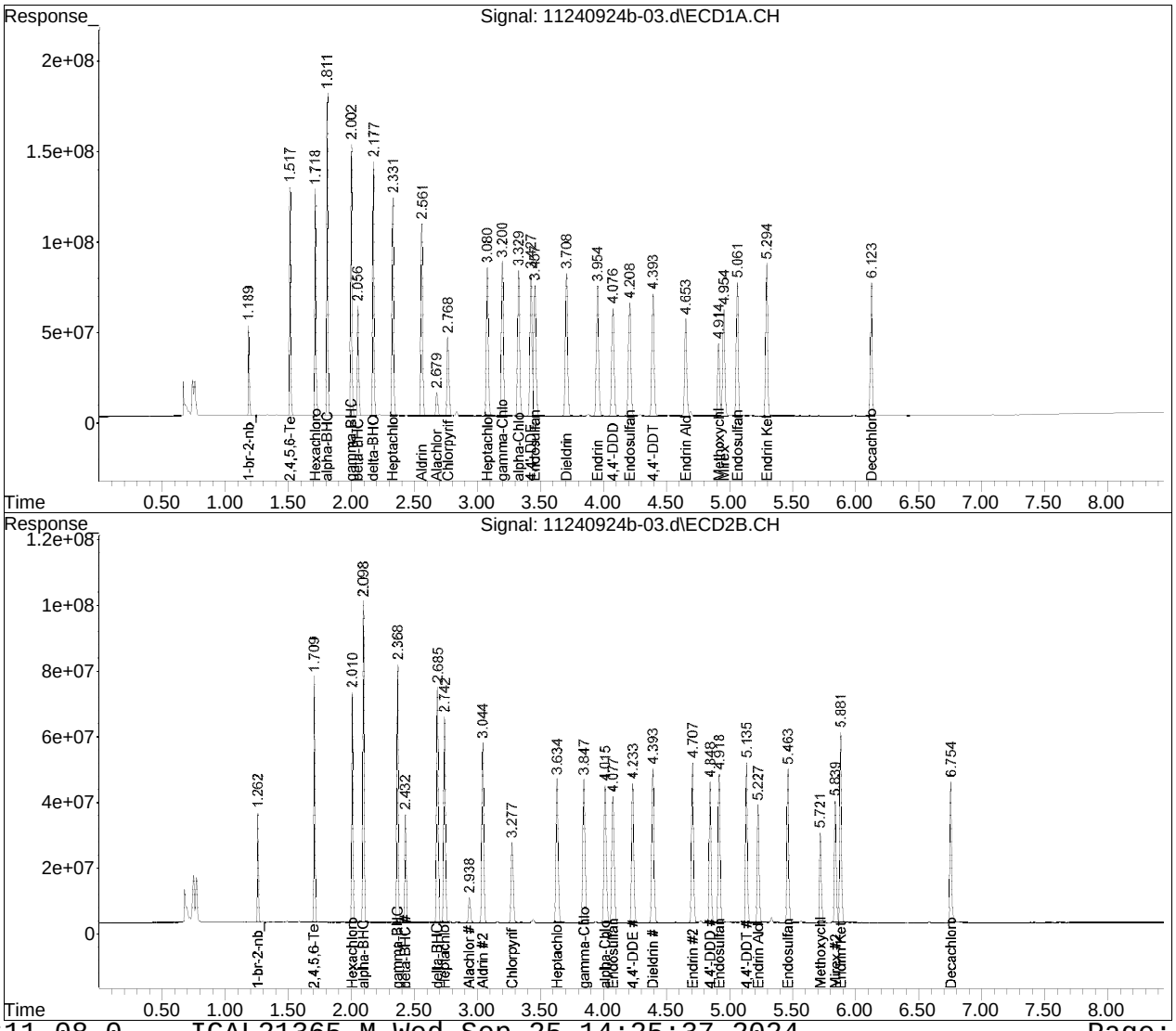
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:24
Operator : PEST11:jag
Sample : wg1975804-1,42,,pest11675 (Sig #1); pest11675 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 07:49:26 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 07:49:18 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

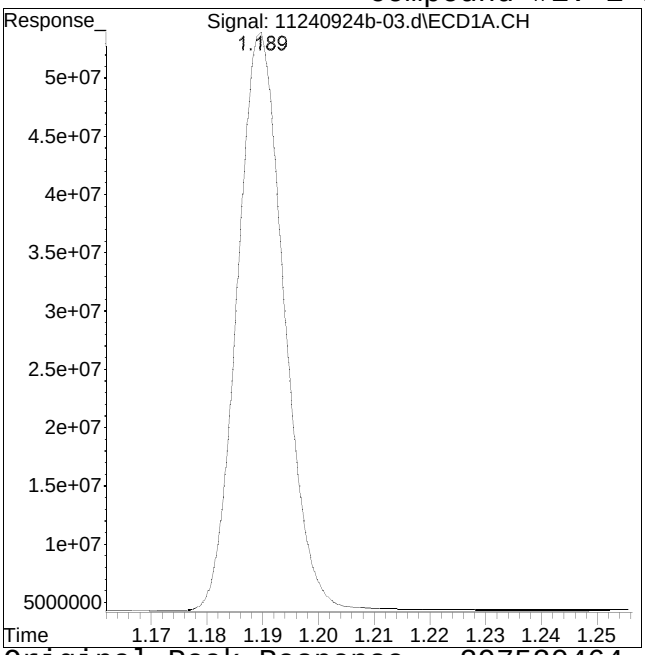
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

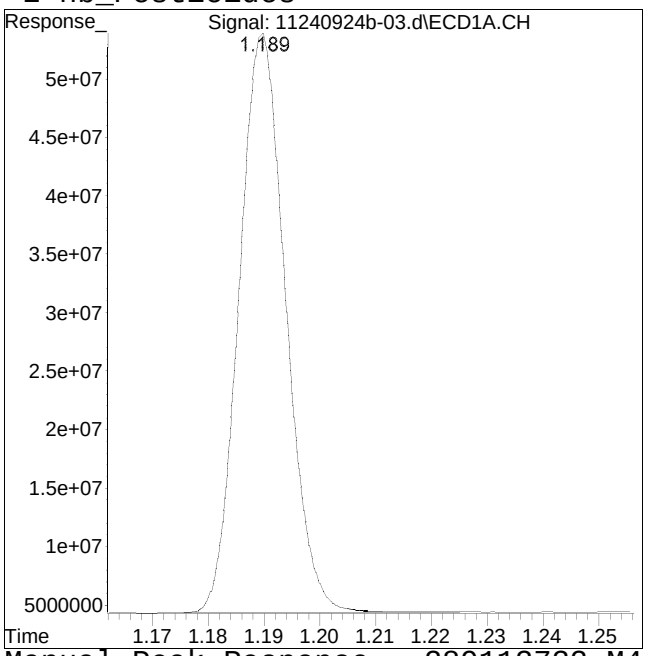


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #1: 1-br-2-nb_Pesticides



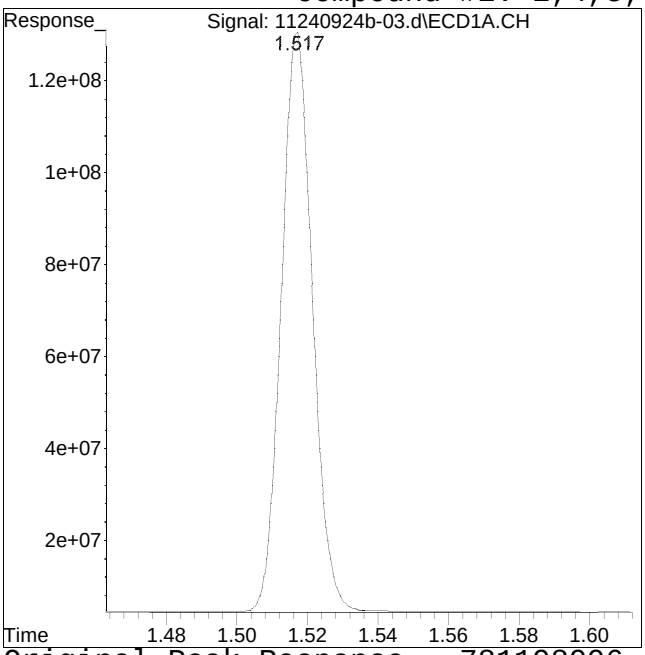


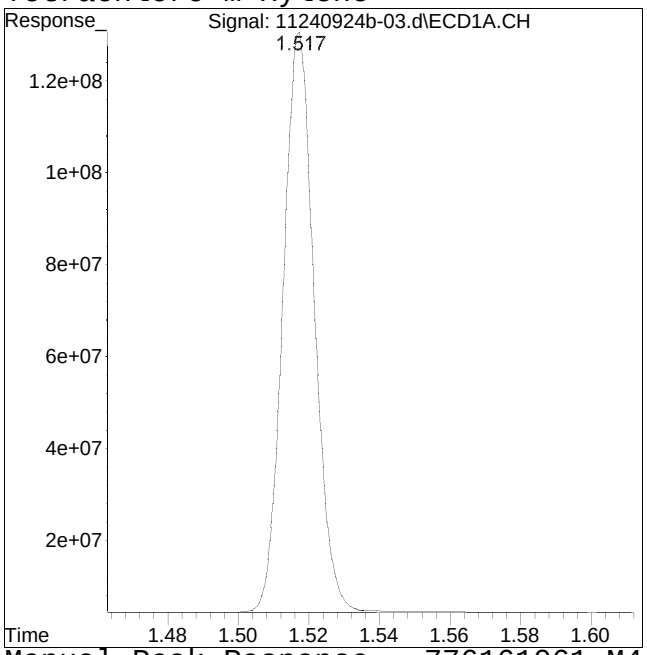
Original Peak Response = 297520464 Manual Peak Response = 289113732 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



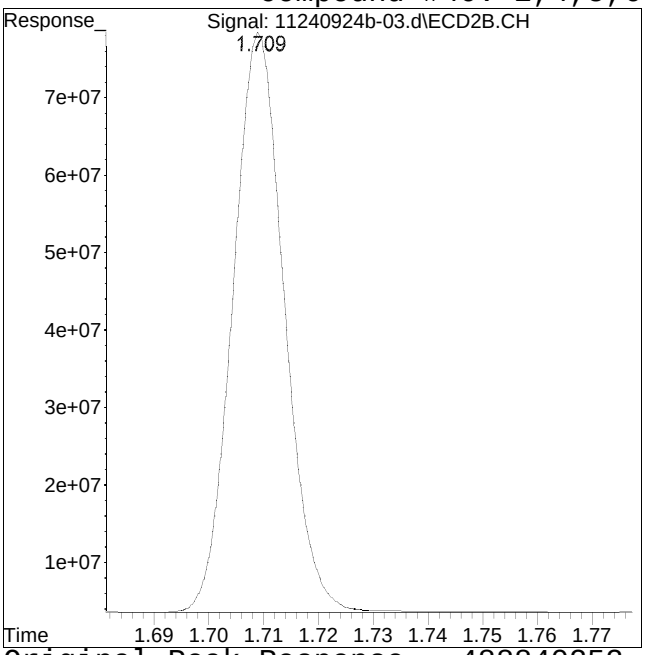


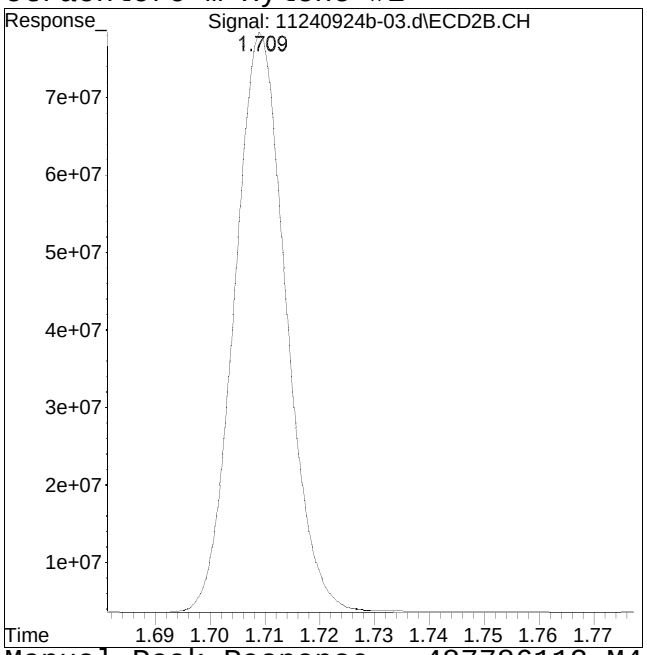
Original Peak Response = 781198996 Manual Peak Response = 776161061 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



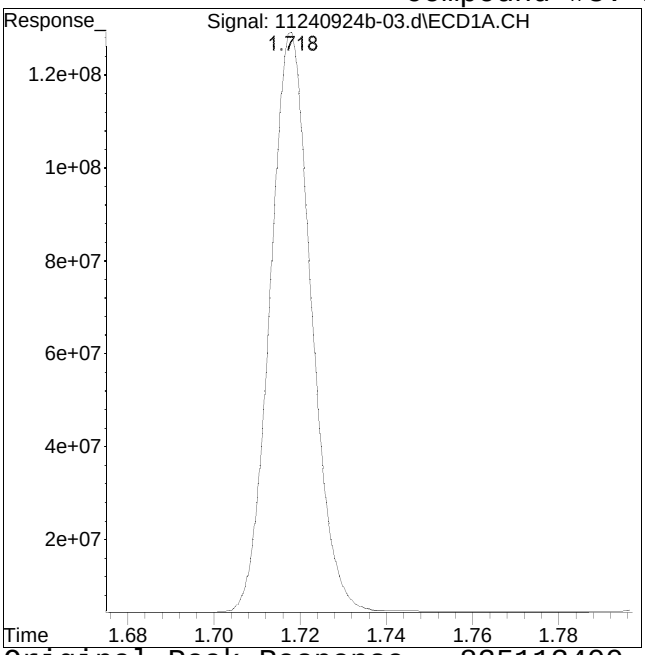


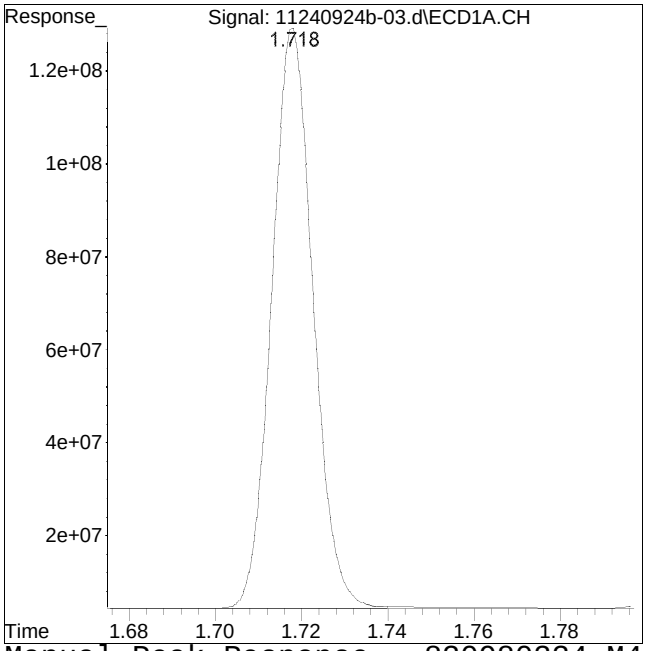
Original Peak Response = 488840252 Manual Peak Response = 487786112 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #3: Hexachlorobenzene



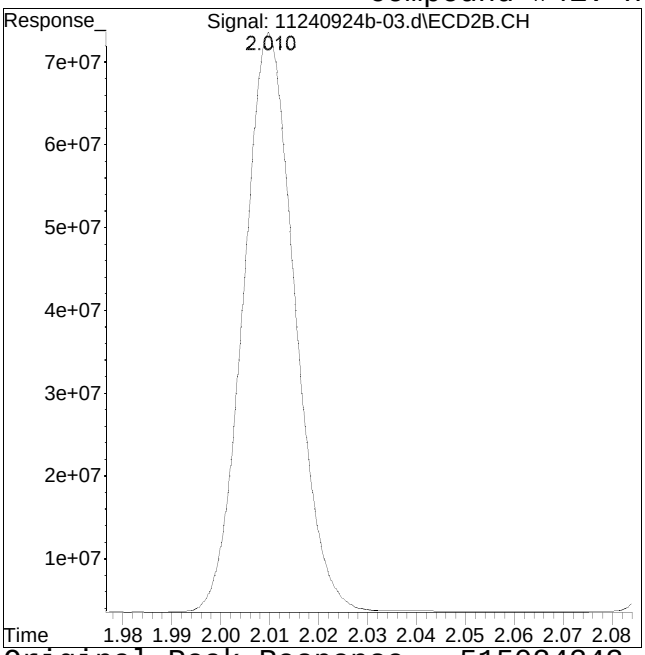


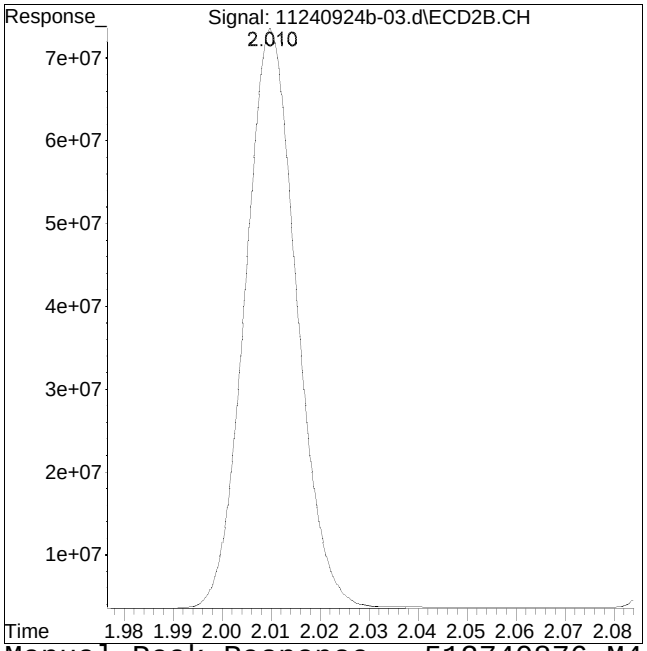
Original Peak Response = 835113400 Manual Peak Response = 830980334 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #41: Hexachlorobenzene #2



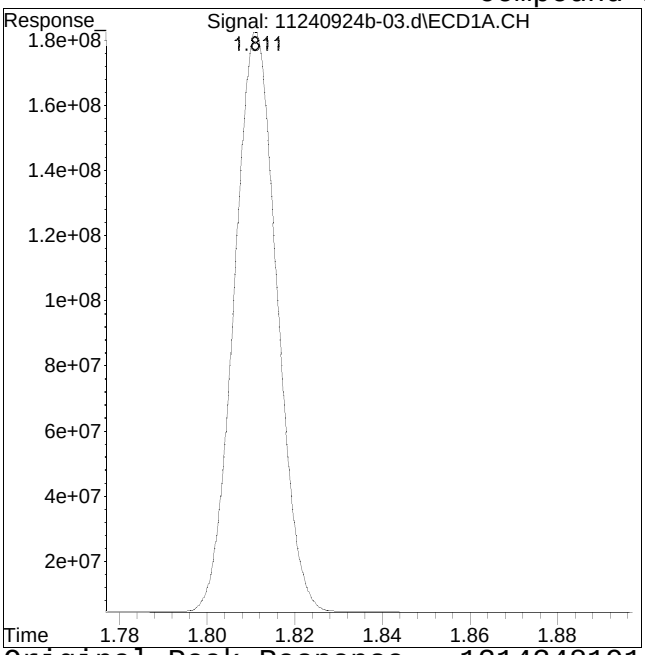


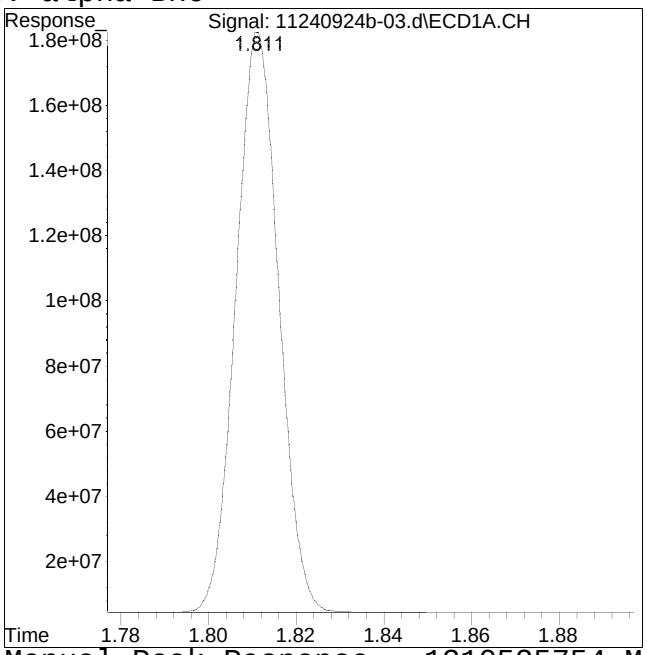
Original Peak Response = 515024343 Manual Peak Response = 512740876 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #4: alpha-BHC



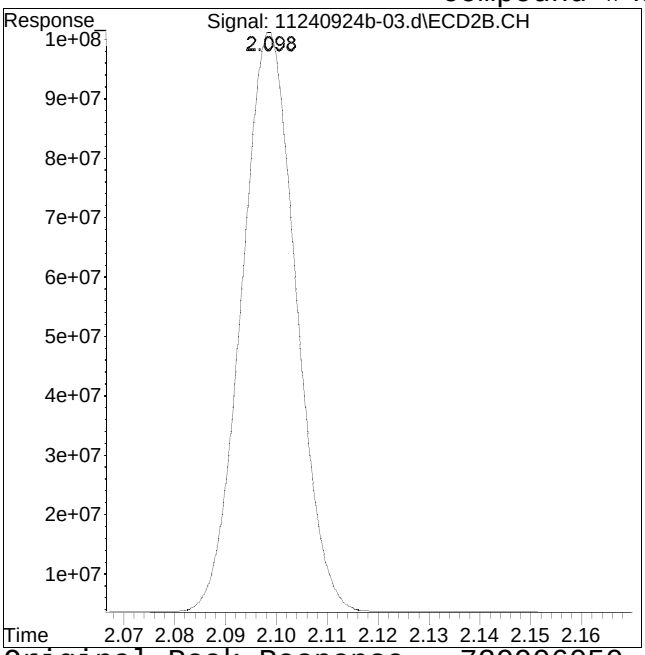


Original Peak Response = 1214348191 Manual Peak Response = 1210525754 M4
M4 = Poor automated baseline construction.

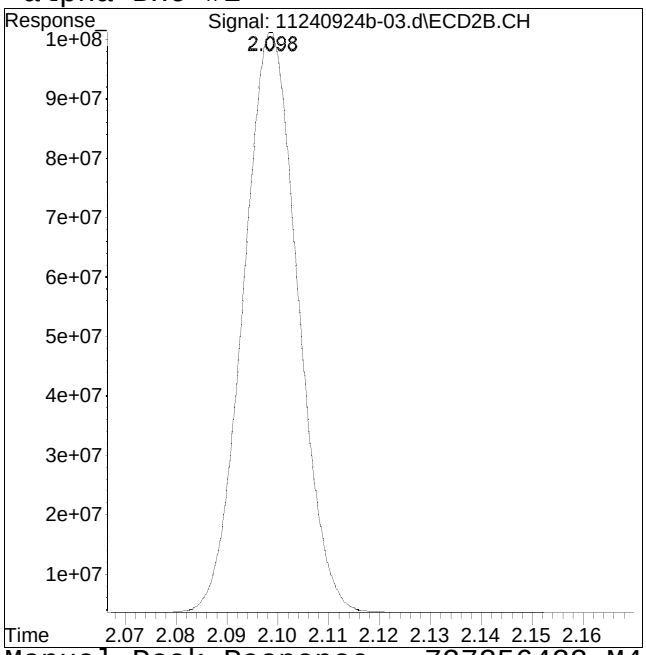
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #42: alpha-BHC #2



Original Peak Response = 729906050



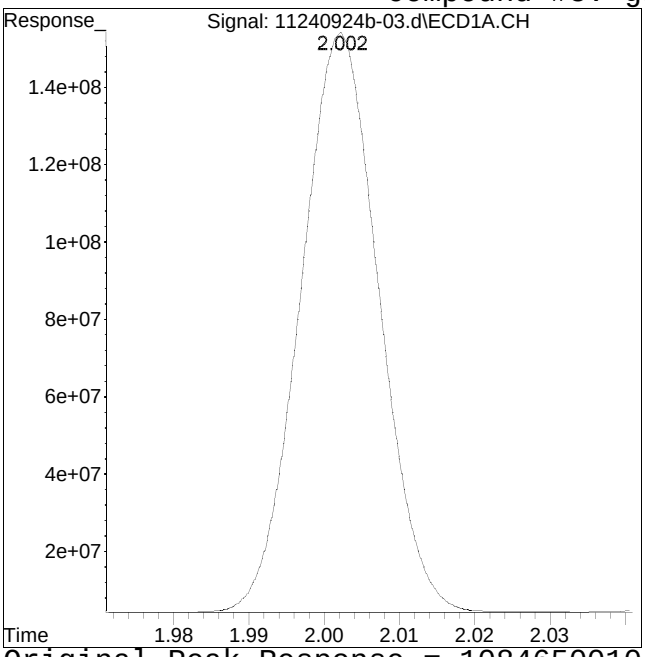
Manual Peak Response = 727356422 M4

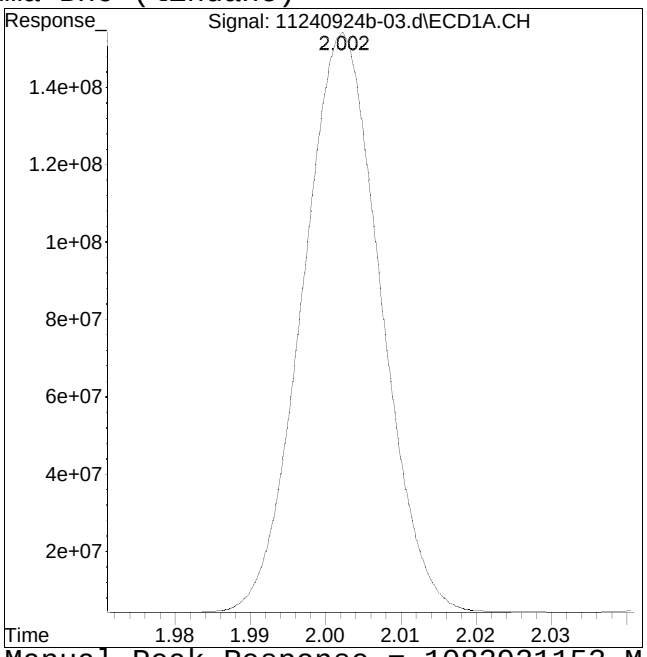
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #5: gamma-BHC (lindane)



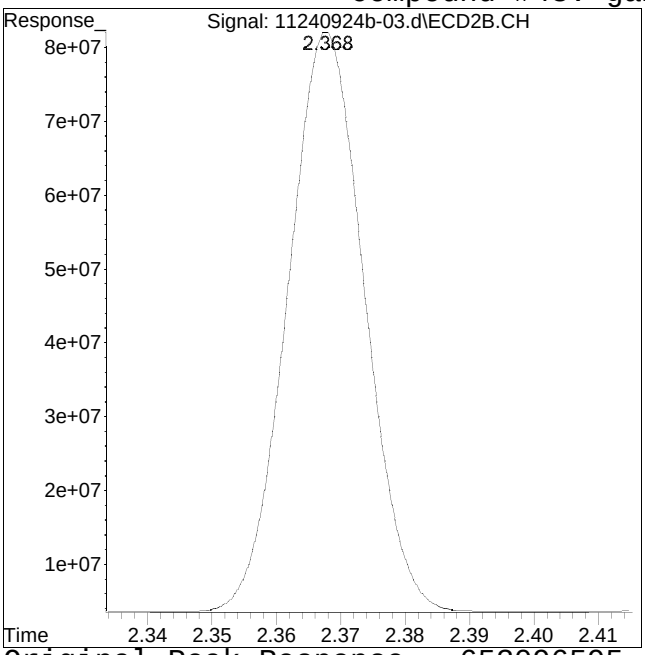


Original Peak Response = 1084650010 Manual Peak Response = 1083931153 M4
M4 = Poor automated baseline construction.

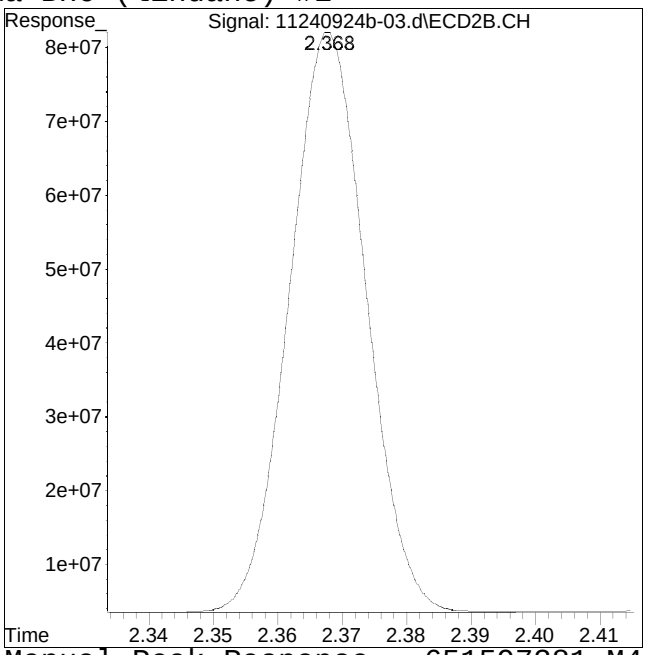
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 653096595

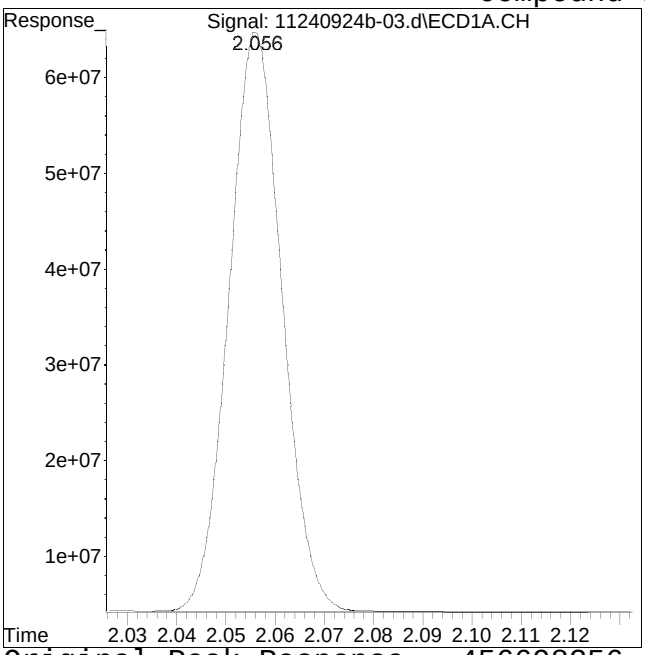


Manual Peak Response = 651597381 M4
M4 = Poor automated baseline construction.

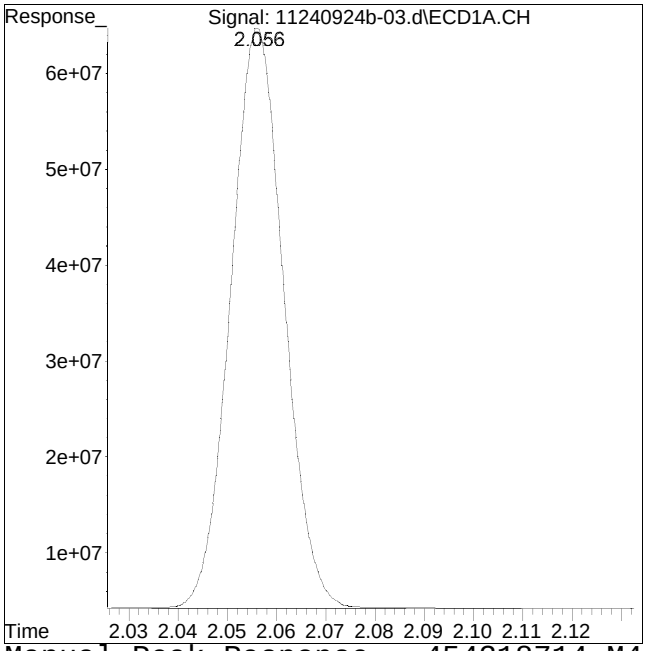
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #6: beta-BHC



Original Peak Response = 456698356



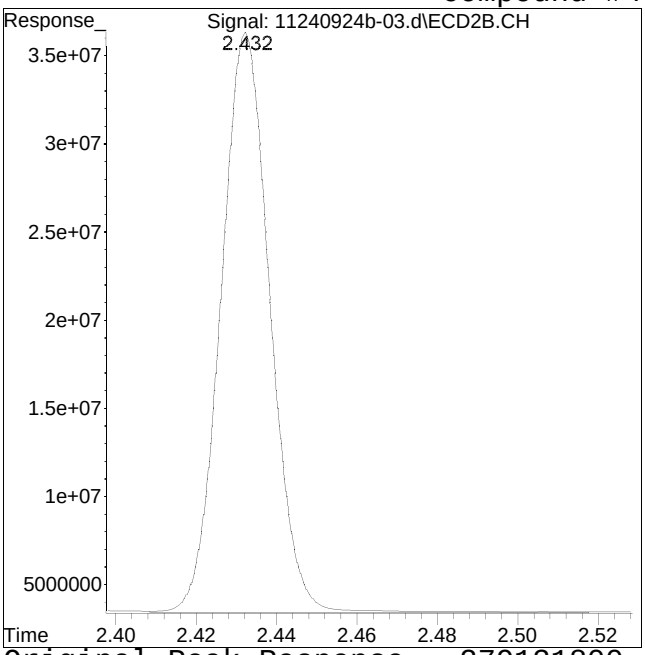
Manual Peak Response = 454318714 M4

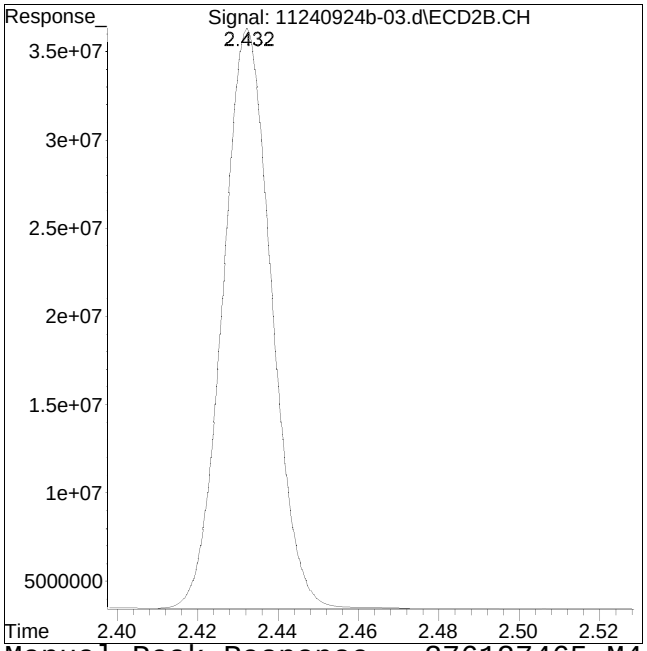
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #44: beta-BHC #2



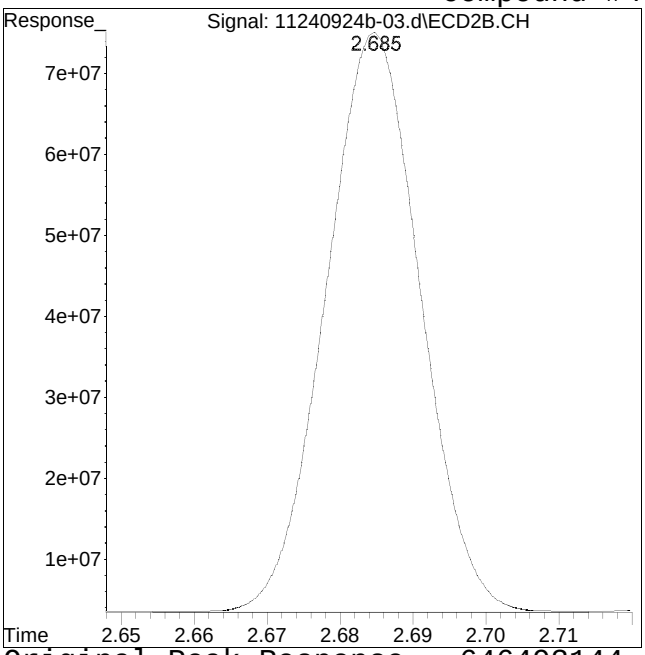


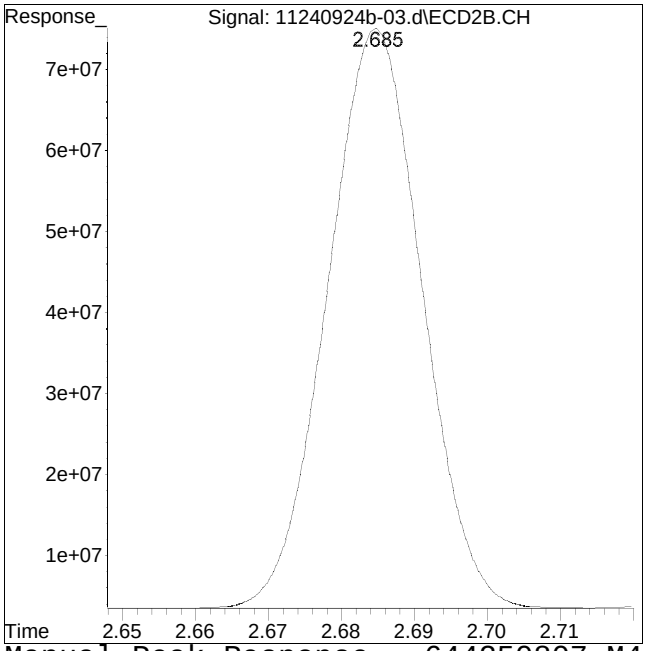
Original Peak Response = 279131800 Manual Peak Response = 276127465 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #45: delta-BHC #2



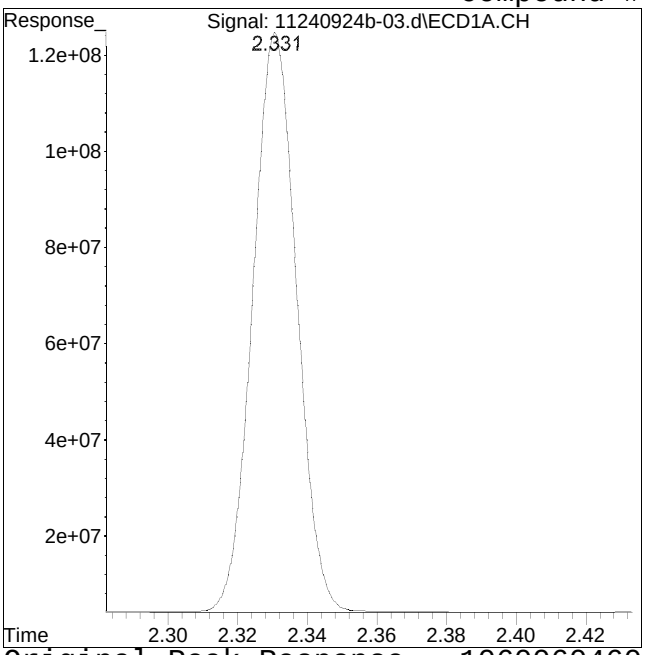


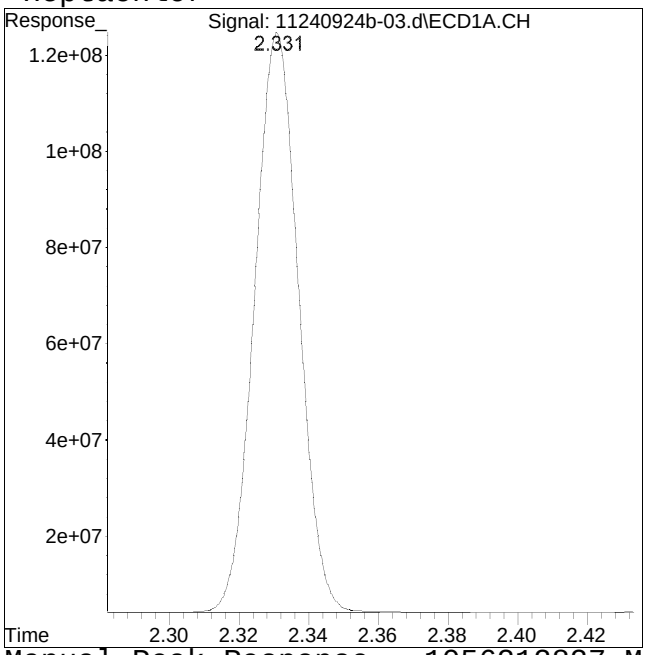
Original Peak Response = 646493144 Manual Peak Response = 644250807 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #8: Heptachlor



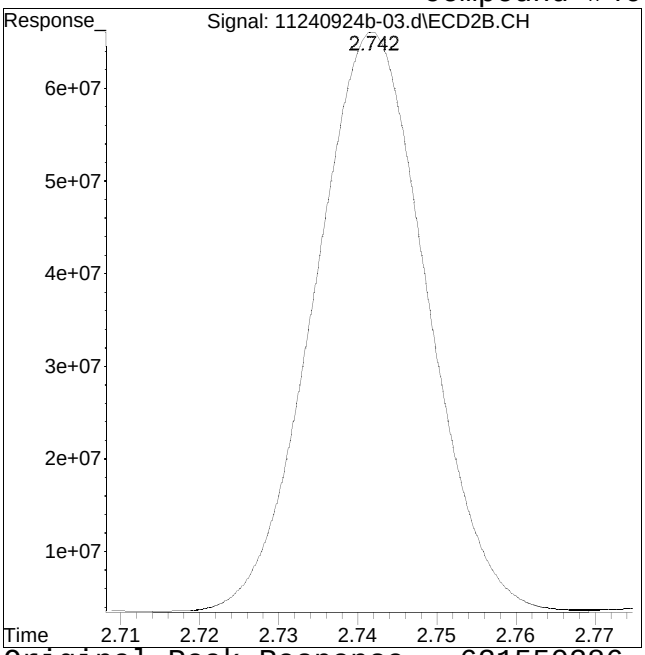


Original Peak Response = 1060060460 Manual Peak Response = 1056212827 M4
M4 = Poor automated baseline construction.

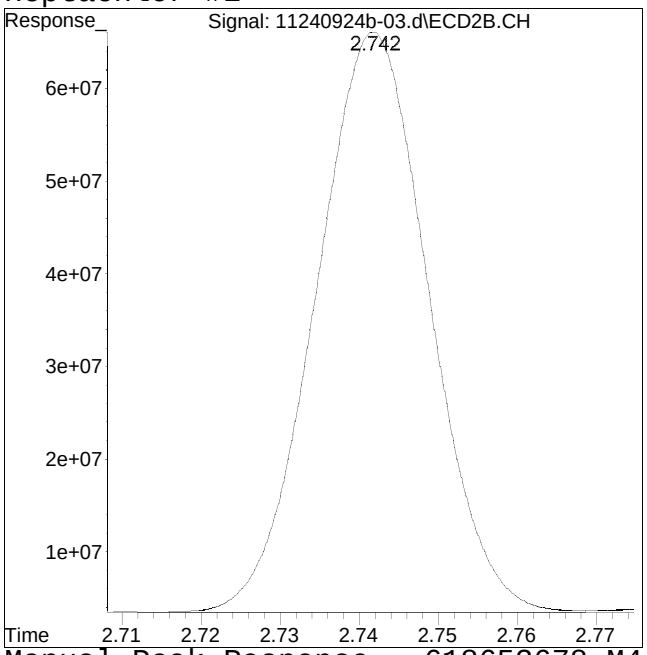
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #46: Heptachlor #2



Original Peak Response = 621550386

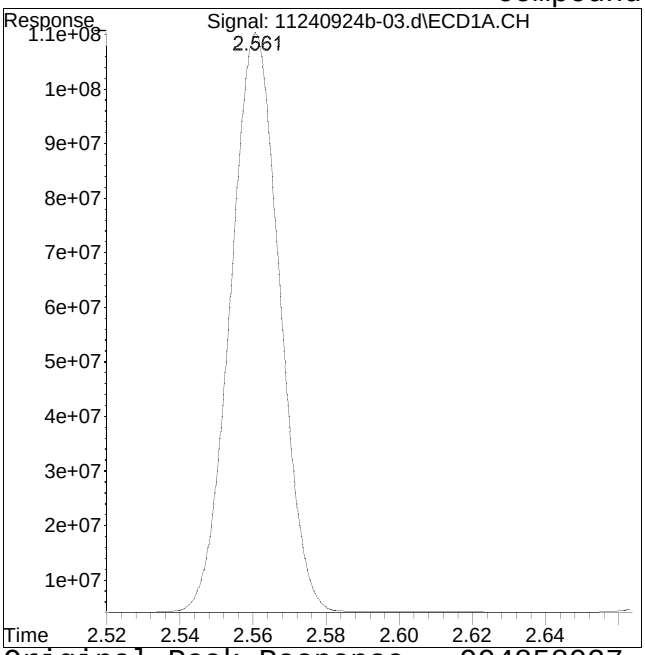


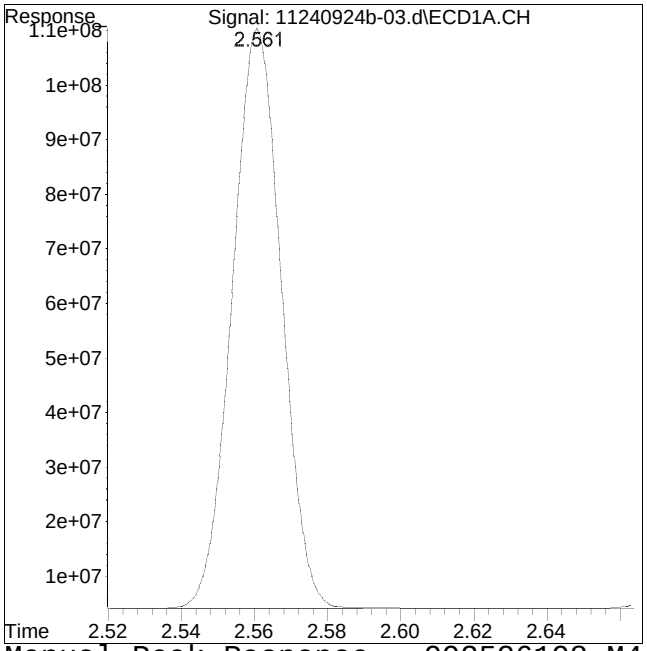
Manual Peak Response = 618653678 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #9: Aldrin



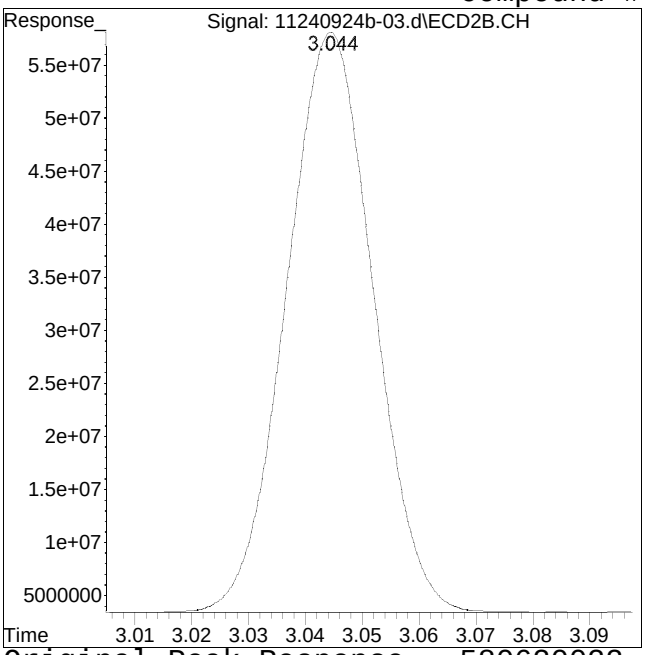


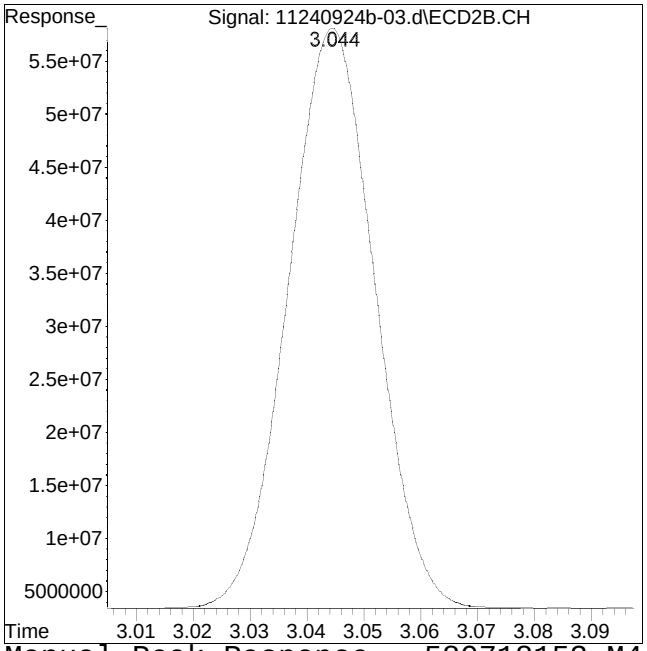
Original Peak Response = 994858927 Manual Peak Response = 992526198 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #47: Aldrin #2



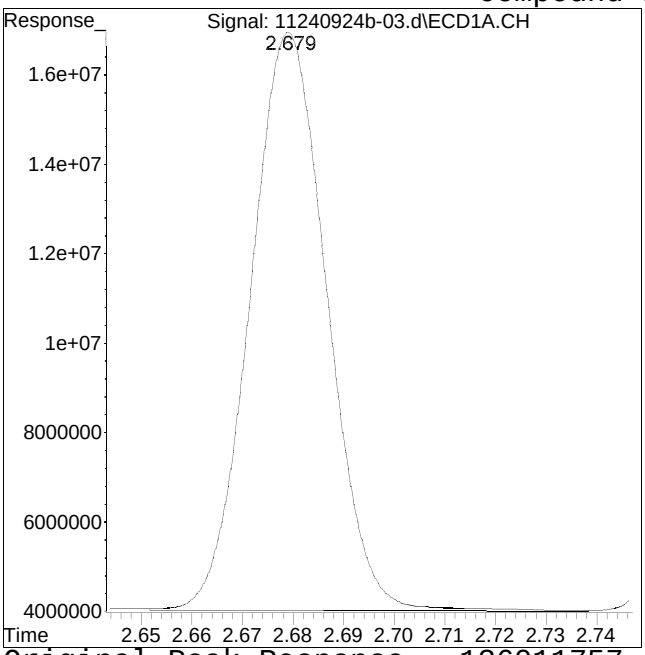


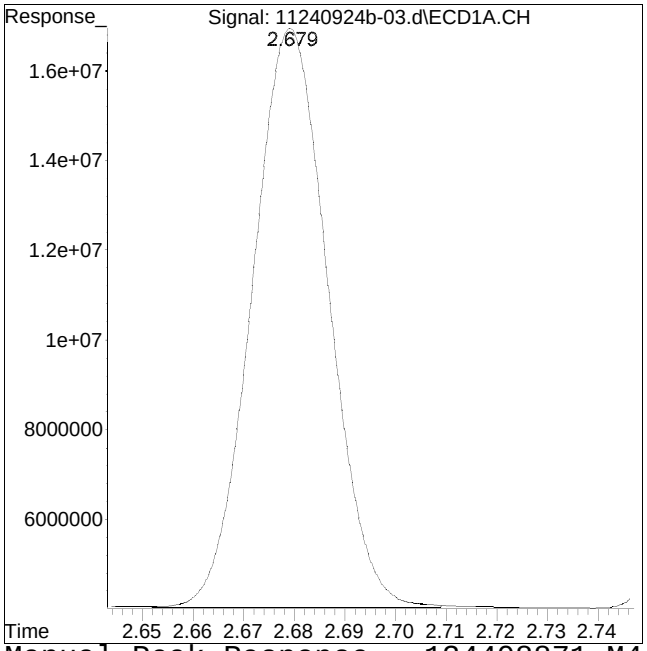
Original Peak Response = 580620022 Manual Peak Response = 580718153 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #10: Alachlor



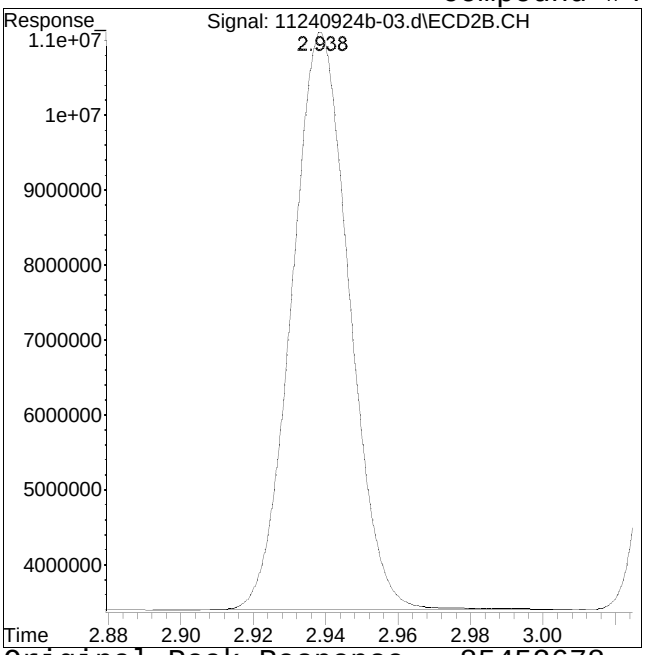


Original Peak Response = 136011757 Manual Peak Response = 134408871 M4
M4 = Poor automated baseline construction.

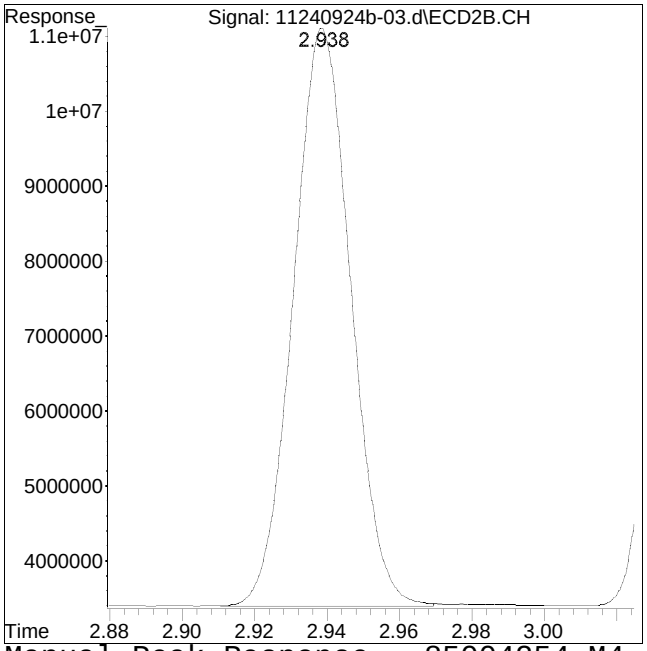
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #48: Alachlor #2



Original Peak Response = 85452678



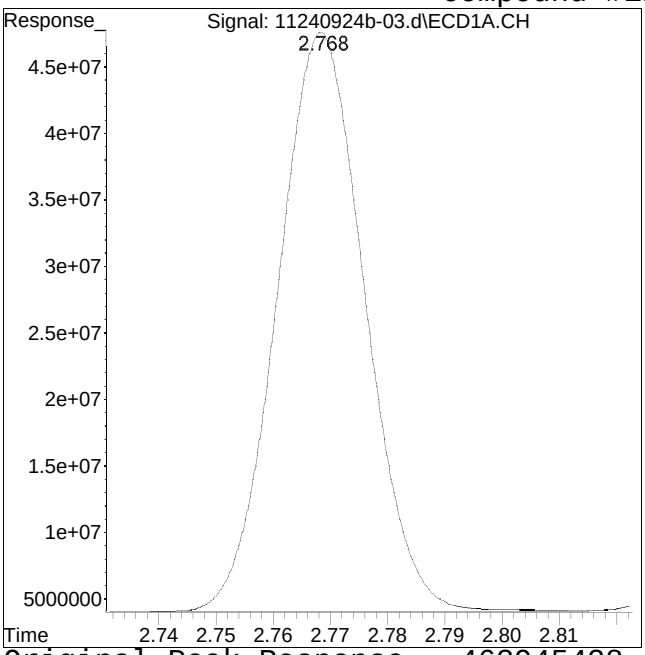
Manual Peak Response = 85004254 M4

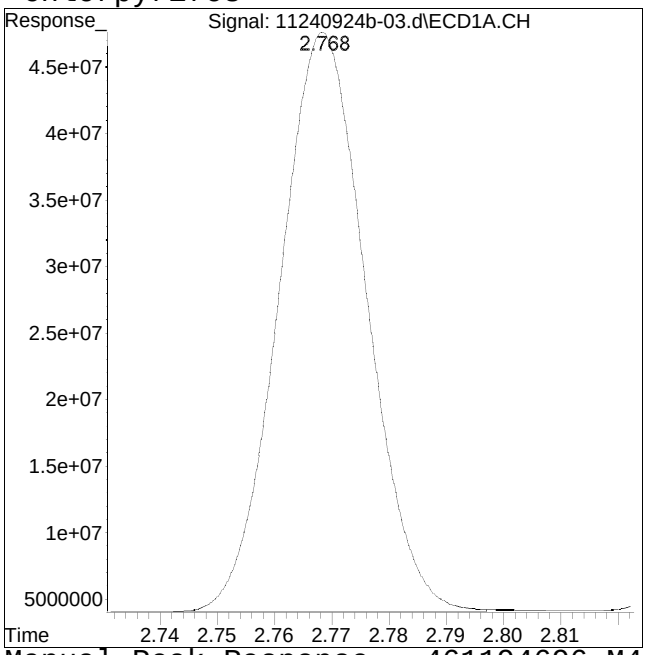
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #11: Chlorpyrifos



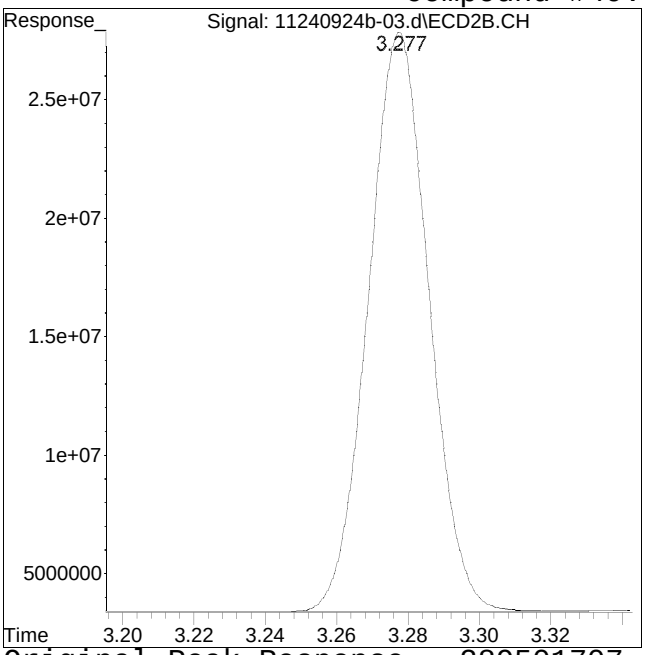


Original Peak Response = 463945428 Manual Peak Response = 461194696 M4
M4 = Poor automated baseline construction.

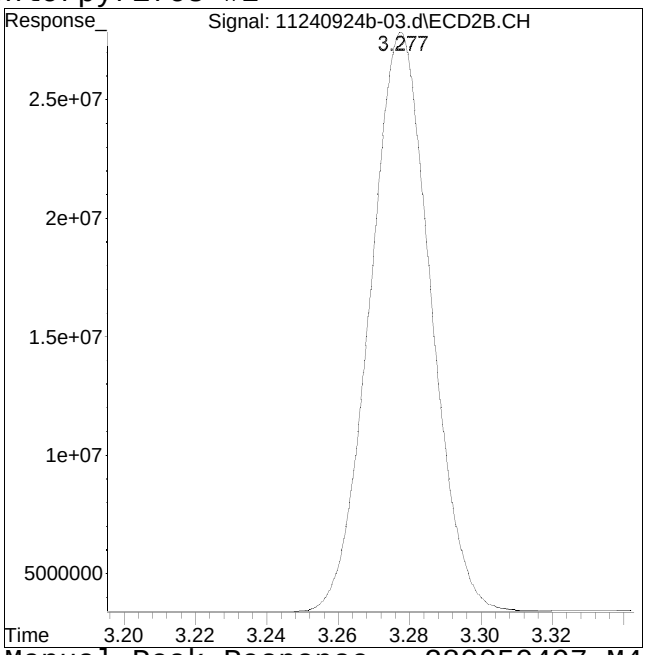
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 289501707



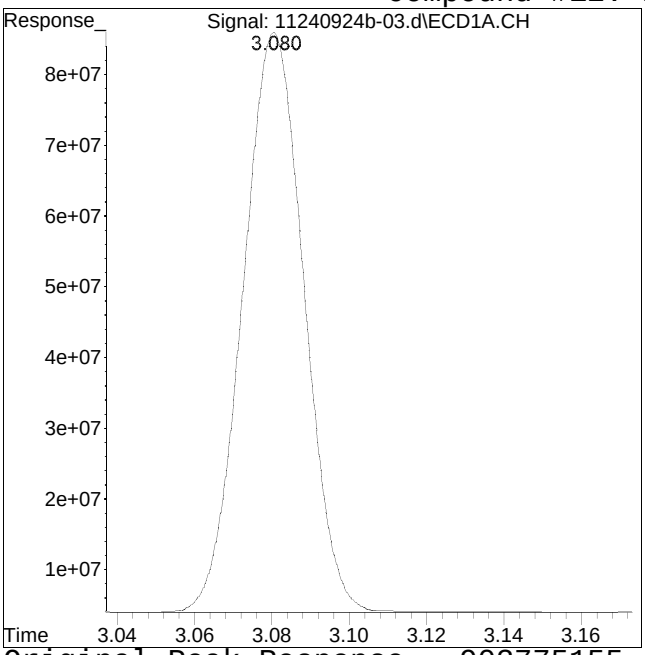
Manual Peak Response = 289050497 M4

M4 = Poor automated baseline construction.

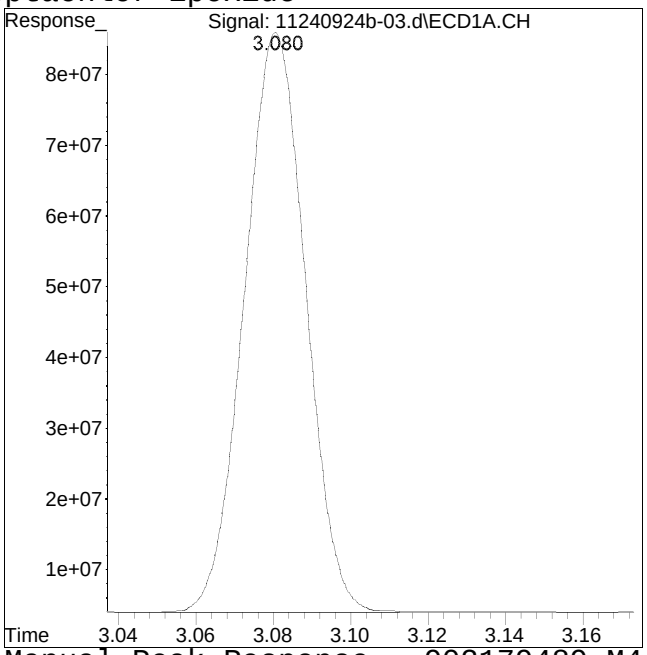
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 903775155

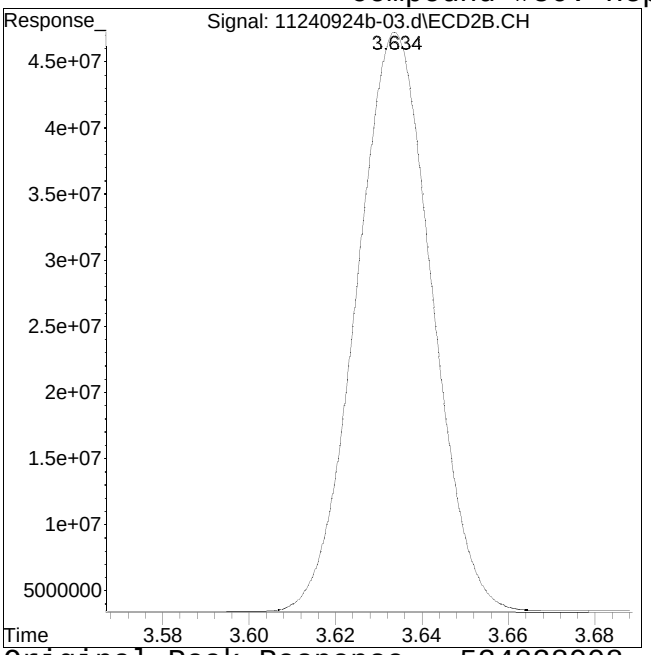


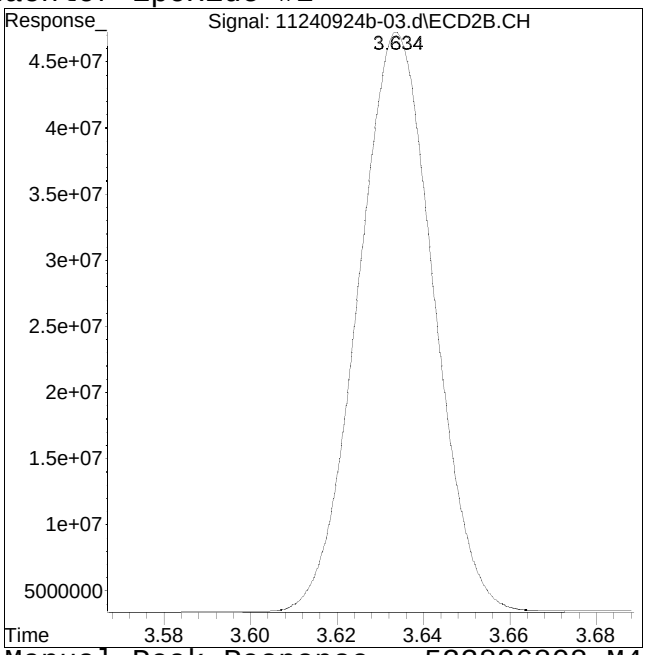
Manual Peak Response = 902179489 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #50: Heptachlor Epoxide #2



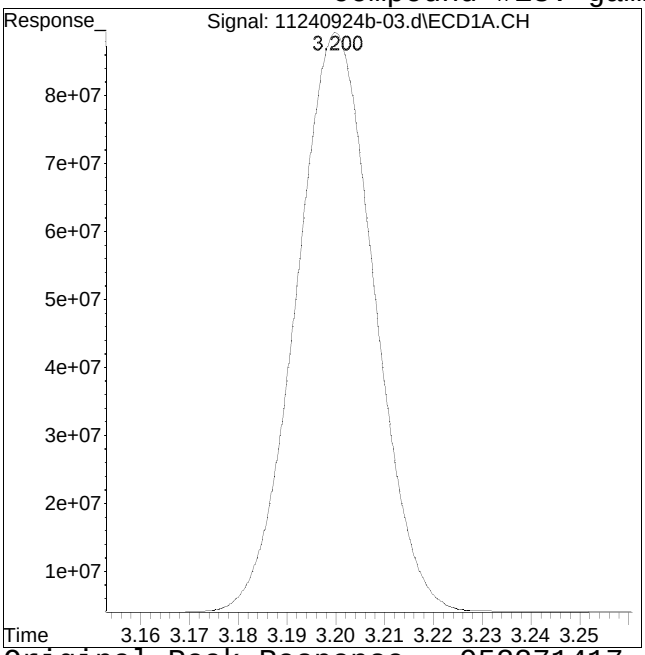


Original Peak Response = 534838908 Manual Peak Response = 533826808 M4
M4 = Poor automated baseline construction.

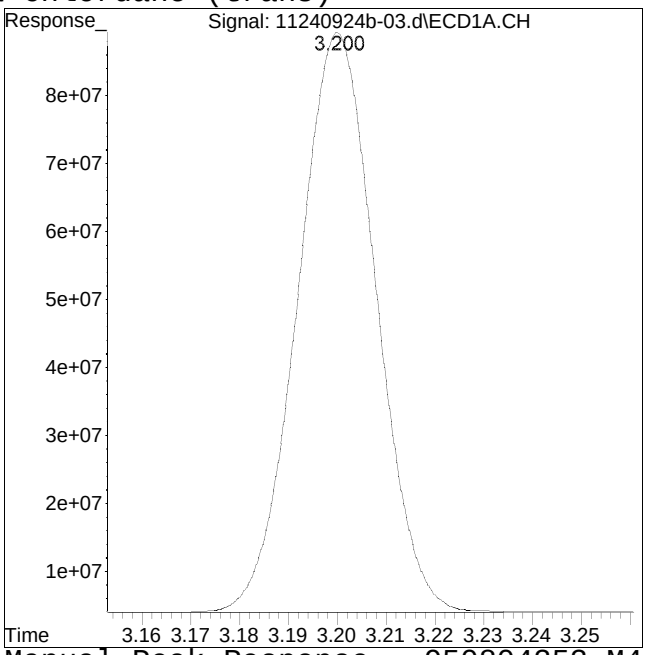
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 952271417



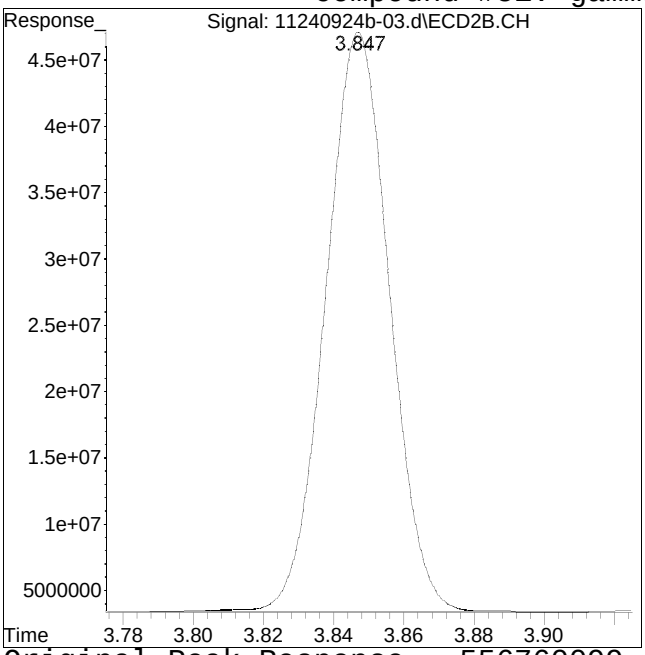
Manual Peak Response = 950804353 M4

M4 = Poor automated baseline construction.

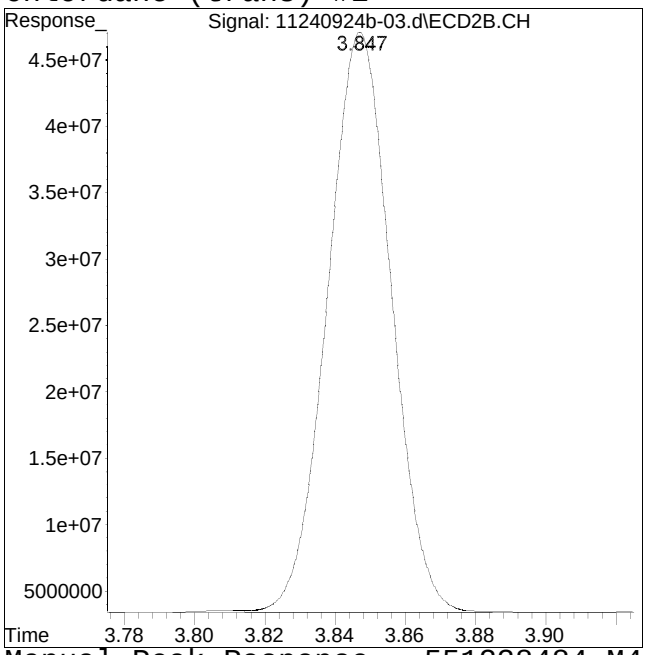
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 556760099



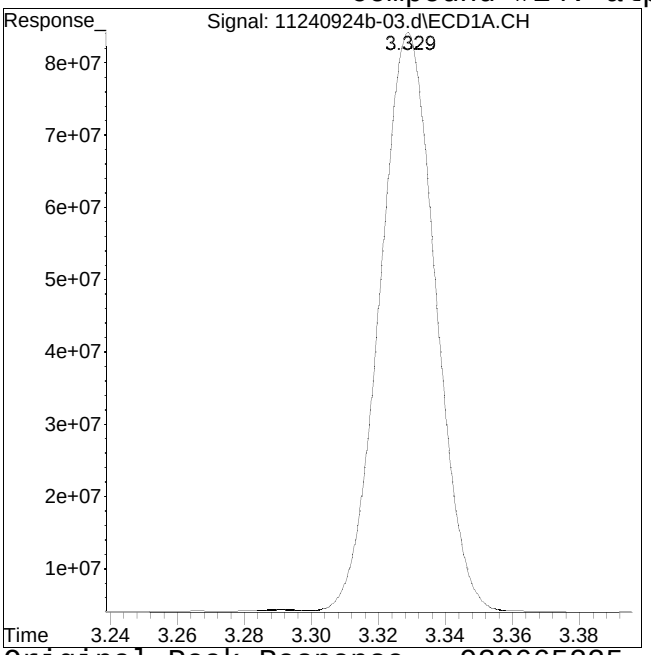
Manual Peak Response = 551238484 M4

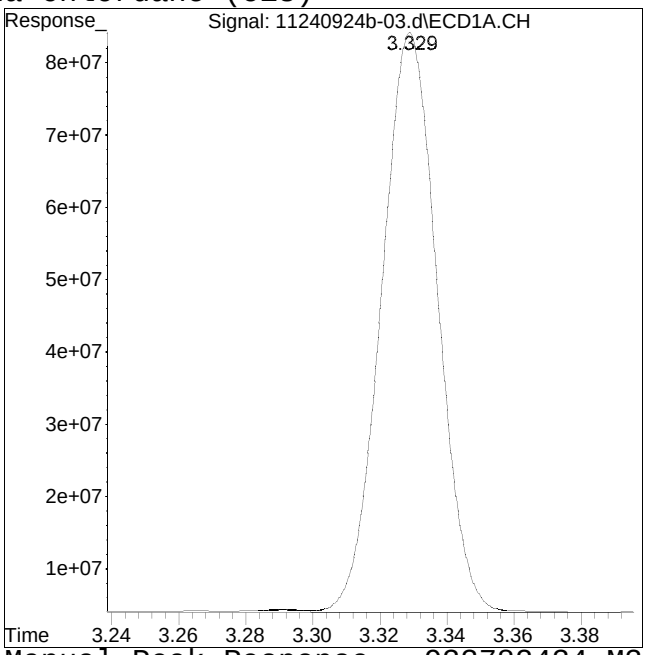
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #14: alpha-Chlordane (cis)



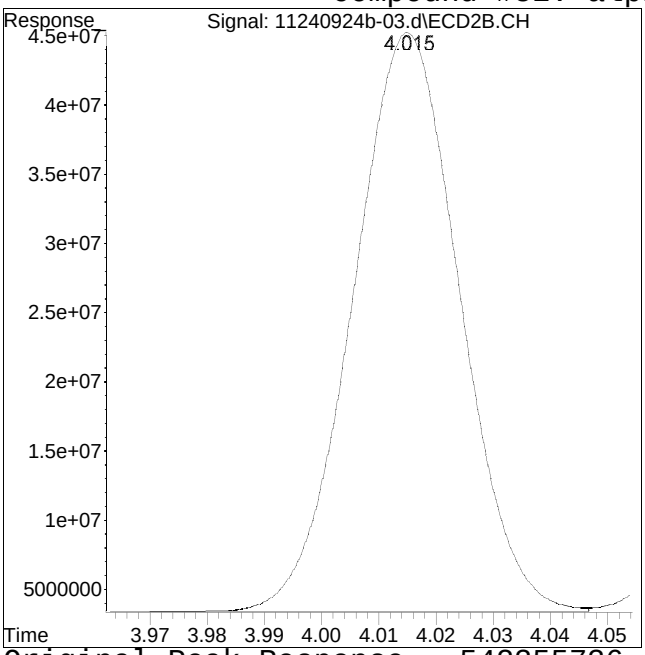


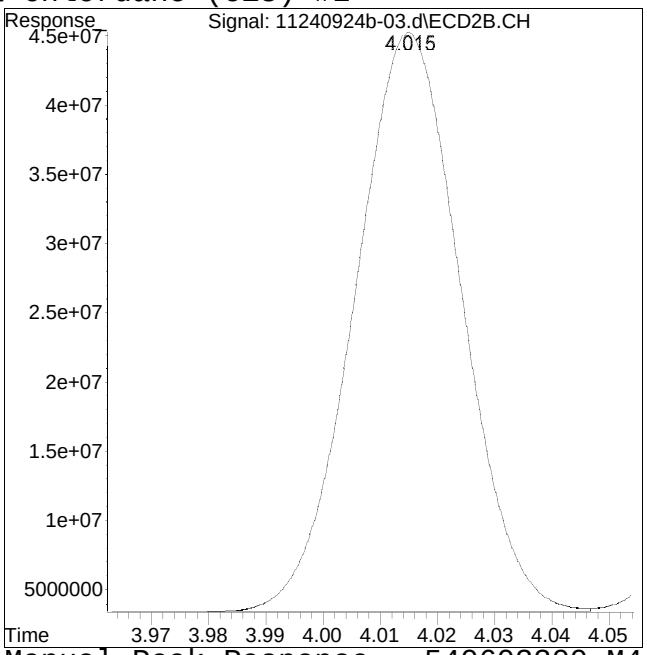
Original Peak Response = 939665225 Manual Peak Response = 933782434 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #52: alpha-Chlordane (cis) #2



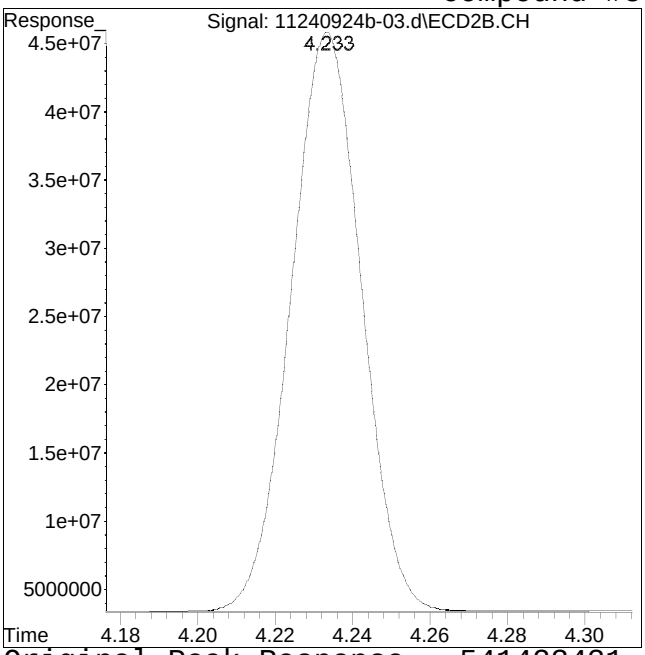


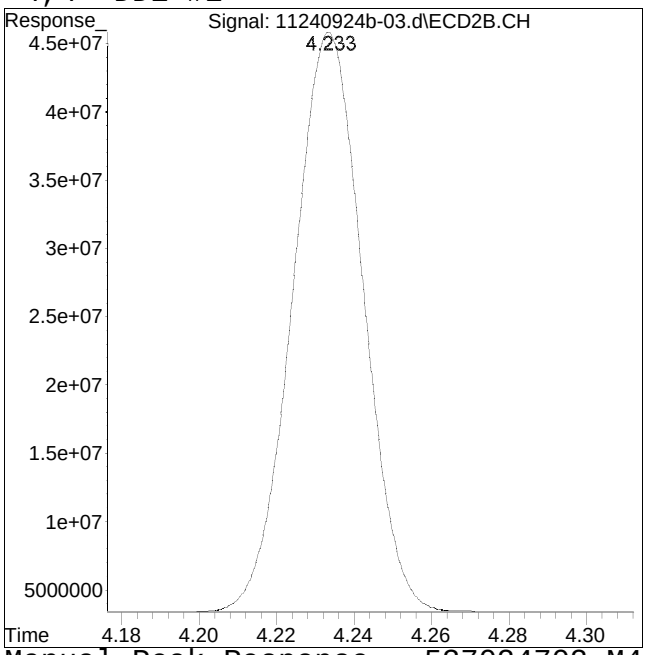
Original Peak Response = 542355736 Manual Peak Response = 540603300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #53: 4,4'-DDE #2



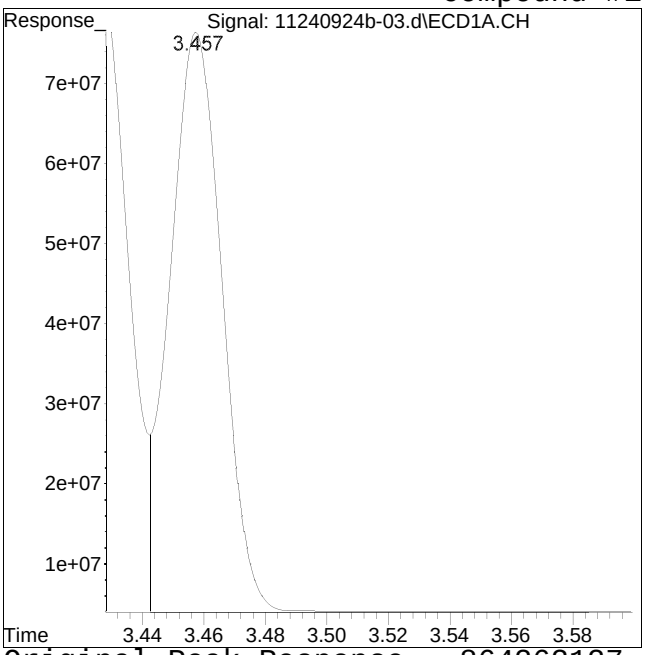


Original Peak Response = 541423431 Manual Peak Response = 537024702 M4
M4 = Poor automated baseline construction.

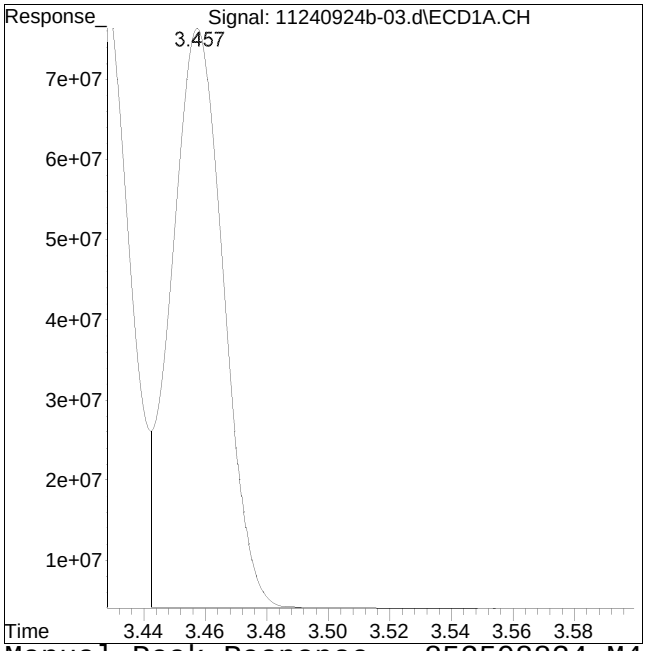
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #16: Endosulfan I



Original Peak Response = 864262127

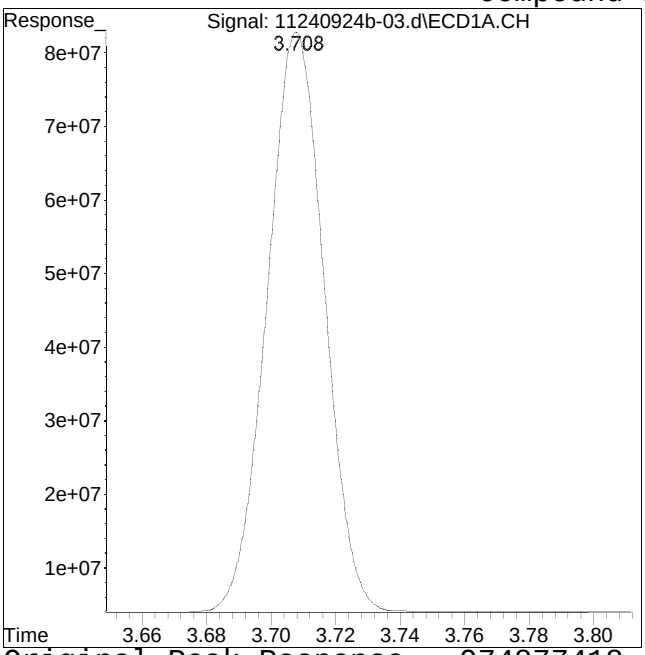


Manual Peak Response = 853508834 M4
M4 = Poor automated baseline construction.

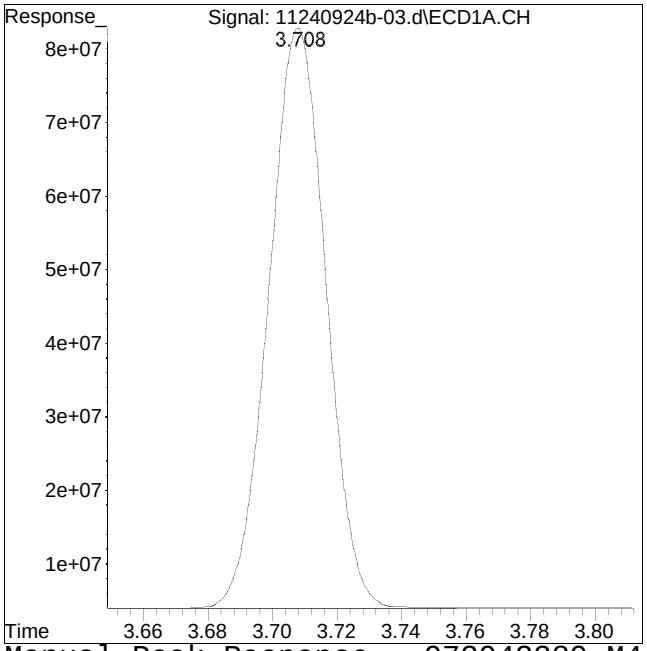
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #17: Dieldrin



Original Peak Response = 974877418



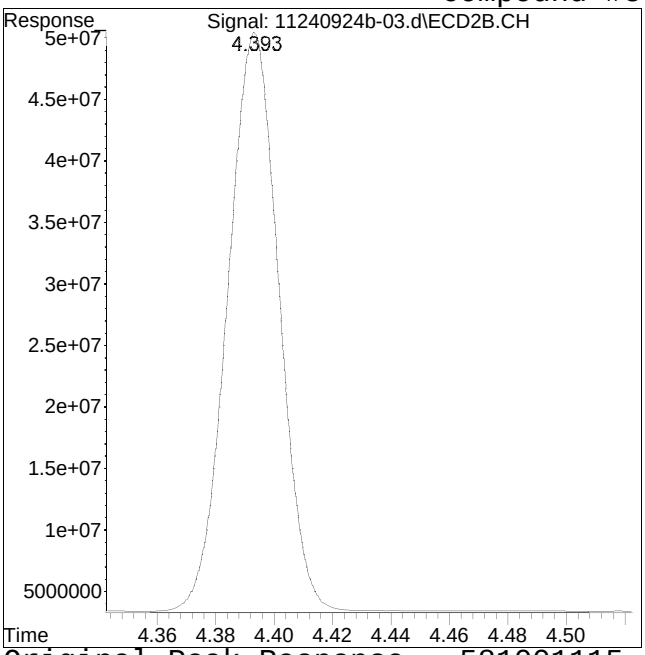
Manual Peak Response = 973943389 M4

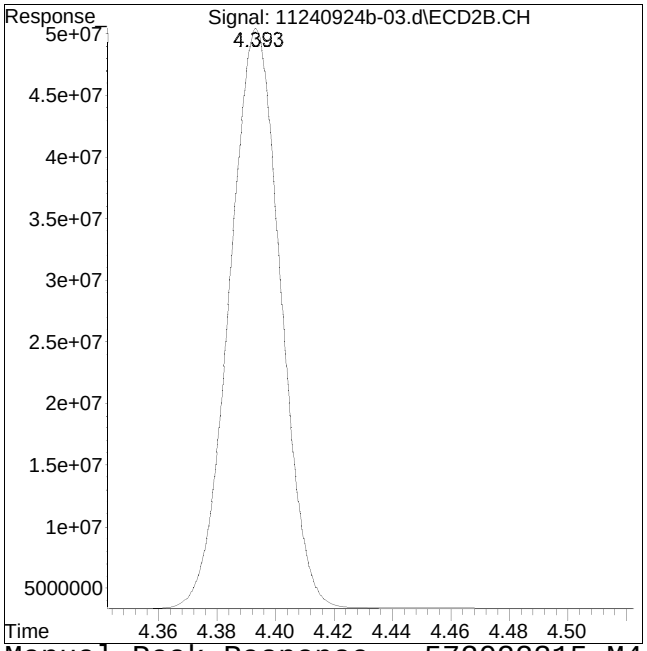
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #55: Dieldrin #2



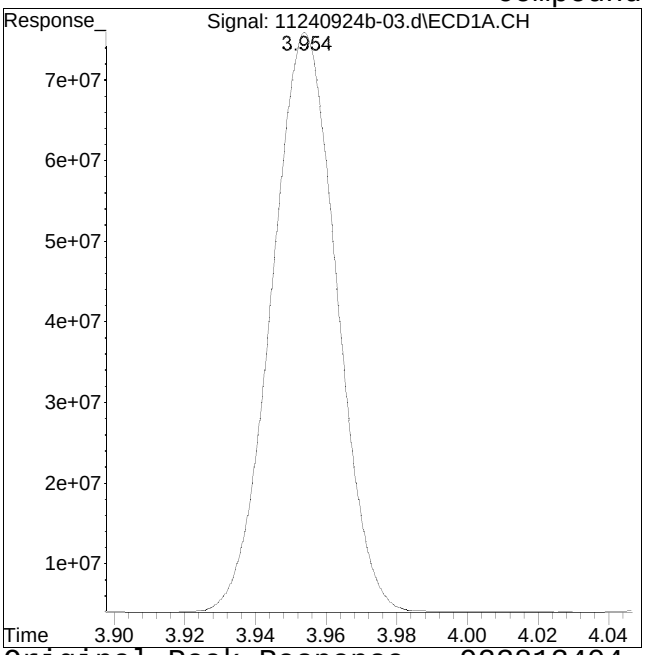


Original Peak Response = 581001115 Manual Peak Response = 572022315 M4
M4 = Poor automated baseline construction.

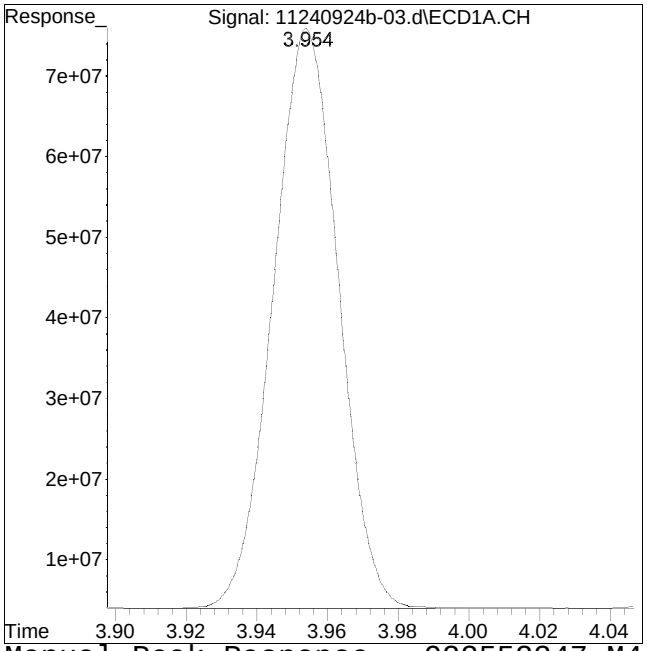
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #18: Endrin



Original Peak Response = 923813404



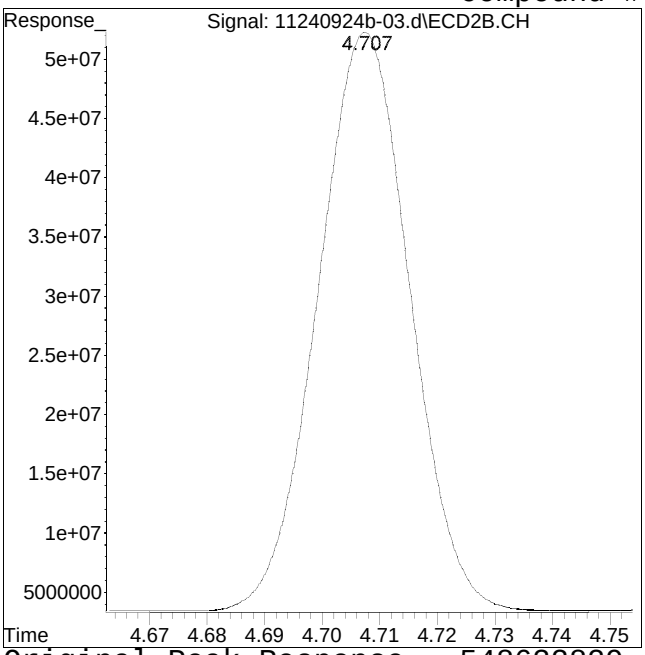
Manual Peak Response = 922552247 M4

M4 = Poor automated baseline construction.

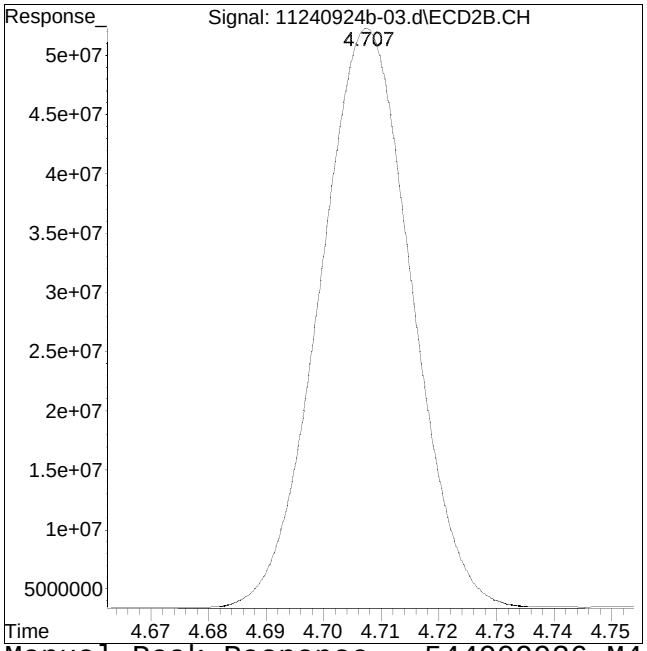
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #56: Endrin #2



Original Peak Response = 548632829



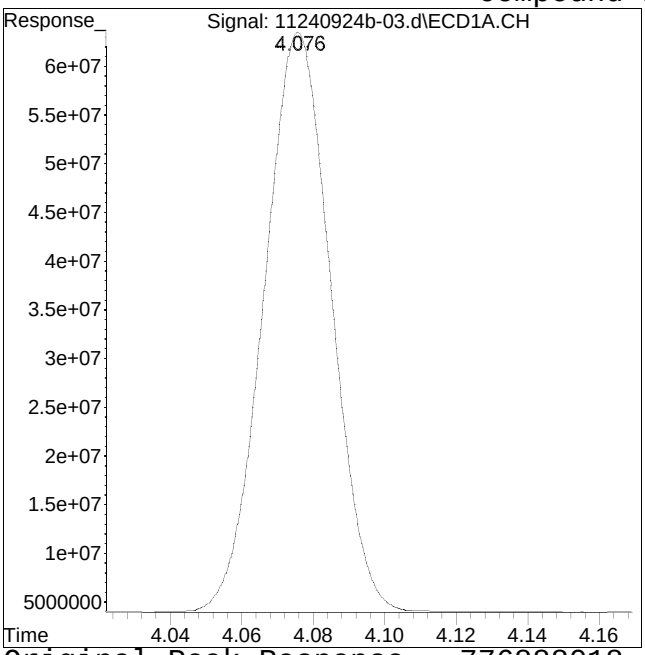
Manual Peak Response = 544909926 M4

M4 = Poor automated baseline construction.

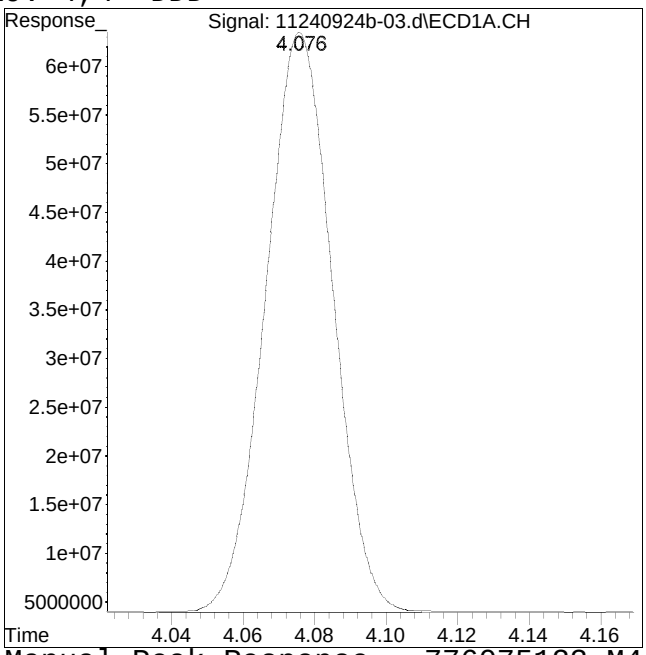
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #19: 4,4'-DDD



Original Peak Response = 776888018



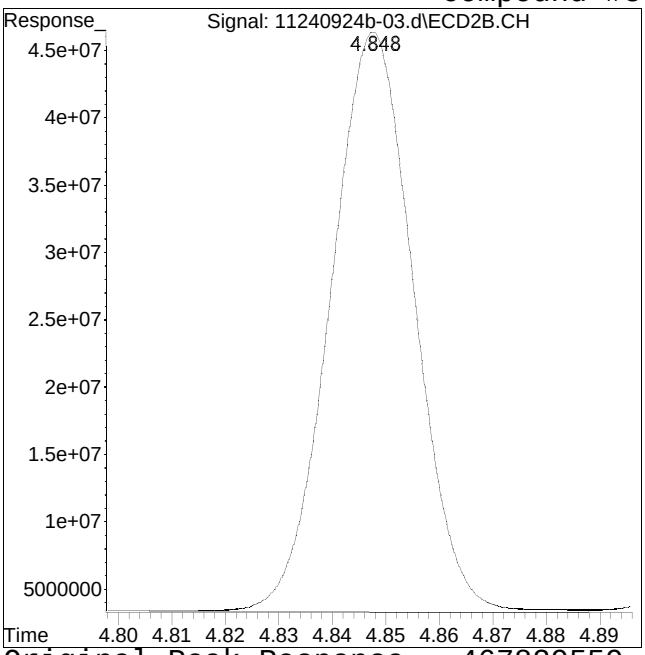
Manual Peak Response = 776075123 M4

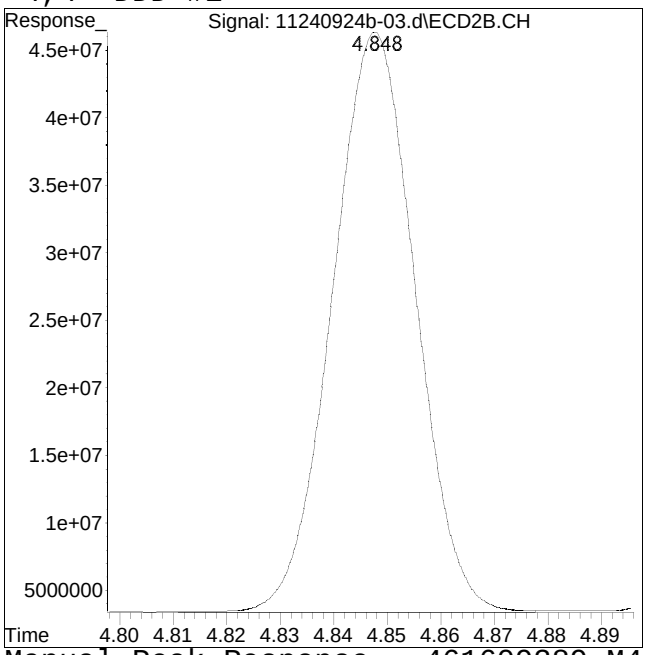
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #57: 4,4'-DDD #2



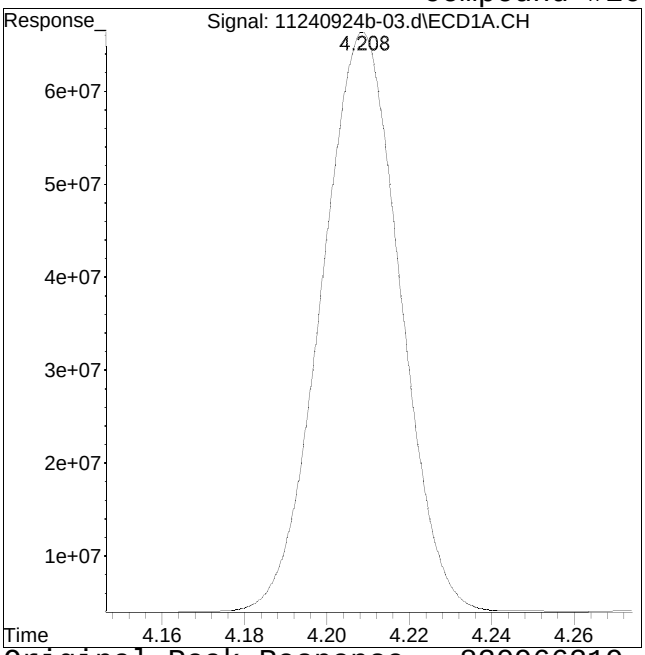


Original Peak Response = 467829559 Manual Peak Response = 461609389 M4
M4 = Poor automated baseline construction.

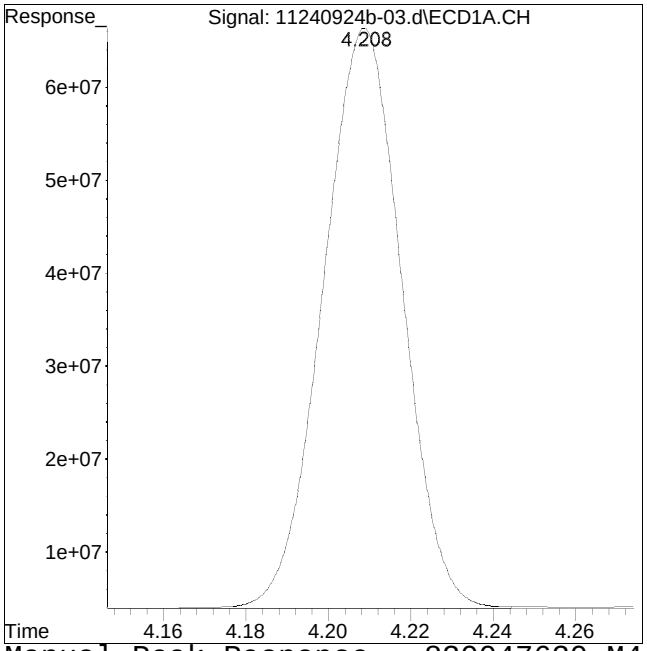
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #20: Endosulfan II



Original Peak Response = 830966319



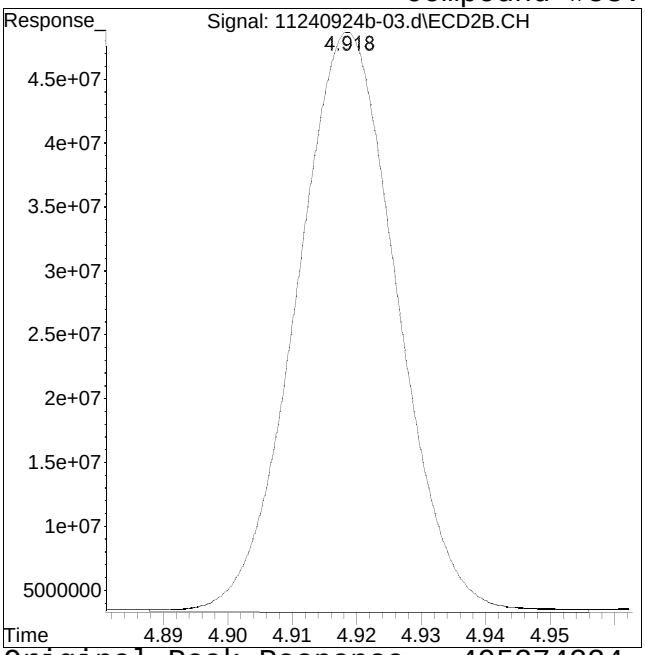
Manual Peak Response = 830047630 M4

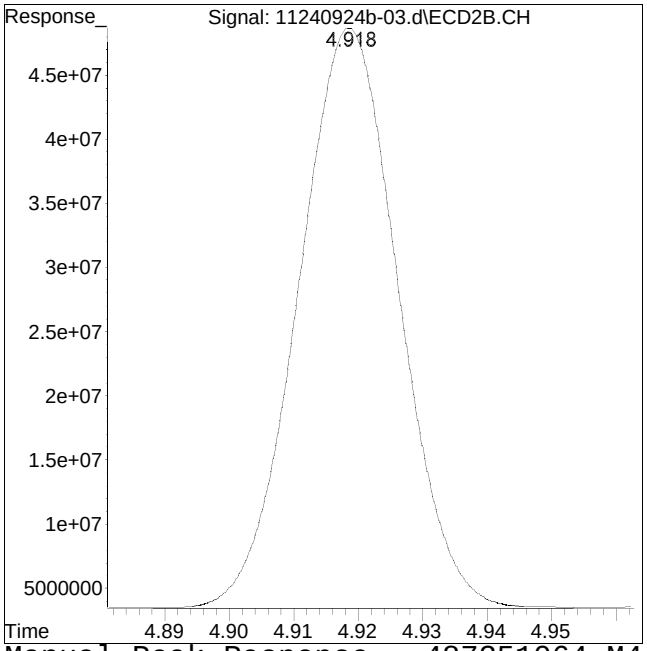
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #58: Endosulfan II #2



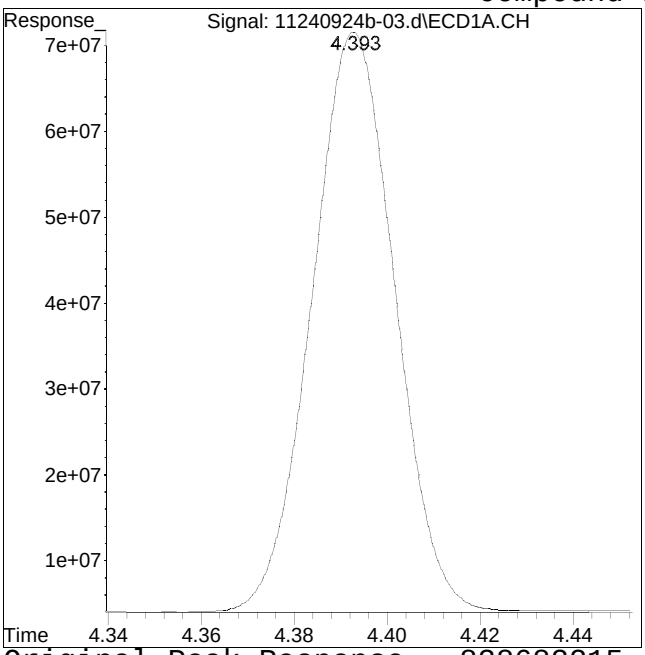


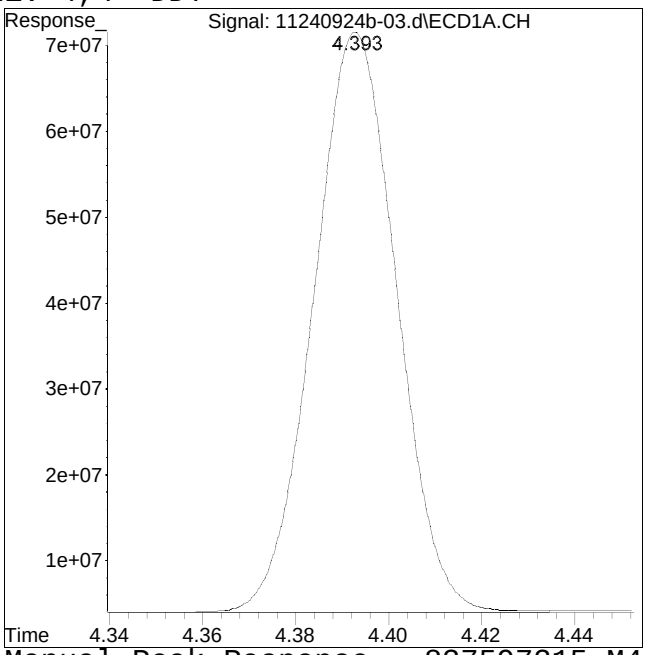
Original Peak Response = 495274224 Manual Peak Response = 487351064 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #21: 4,4'-DDT



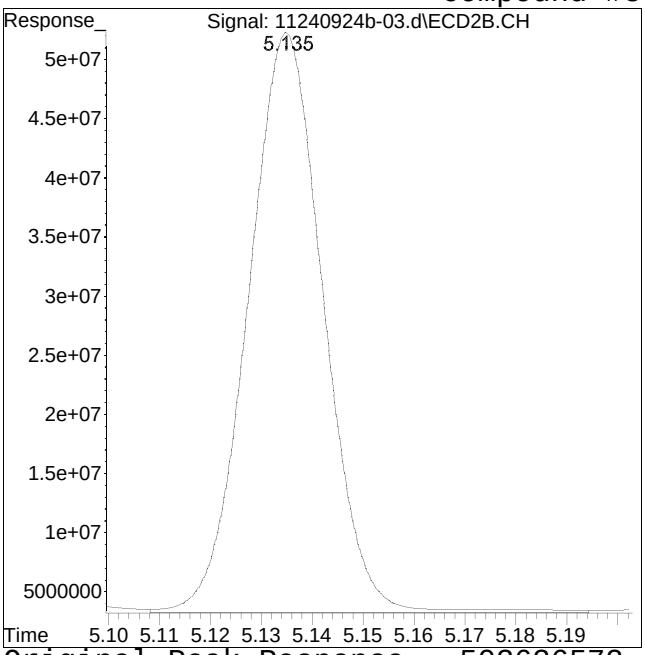


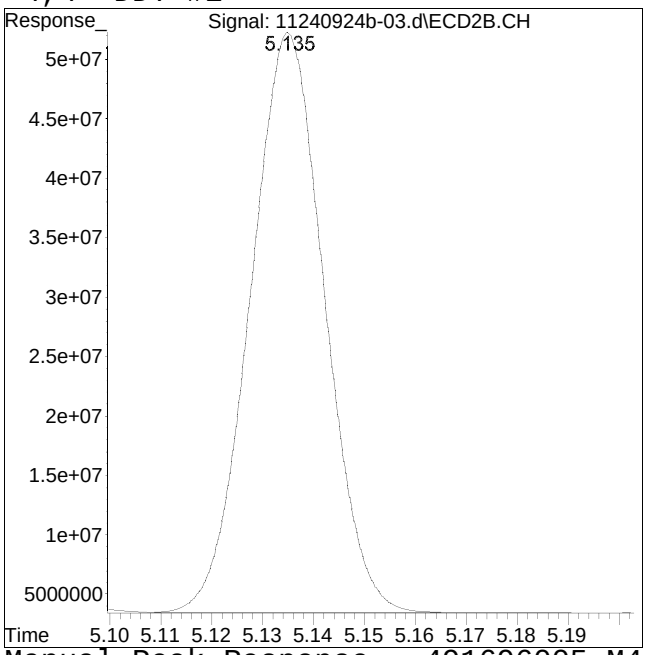
Original Peak Response = 838682215 Manual Peak Response = 837597315 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #59: 4,4'-DDT #2



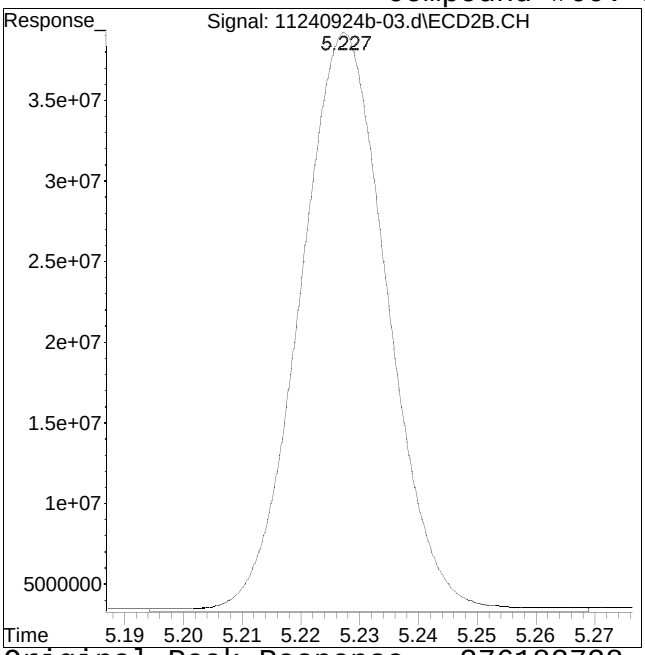


Original Peak Response = 503636572 Manual Peak Response = 491696005 M4
M4 = Poor automated baseline construction.

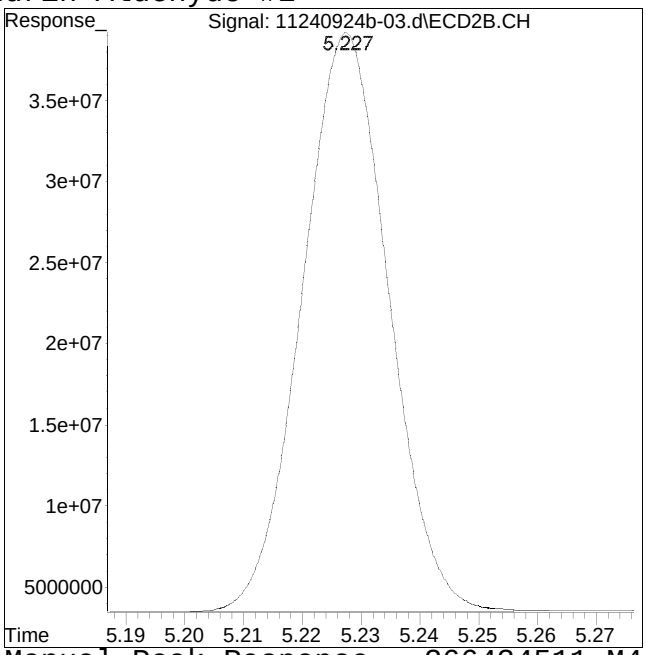
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 376182738



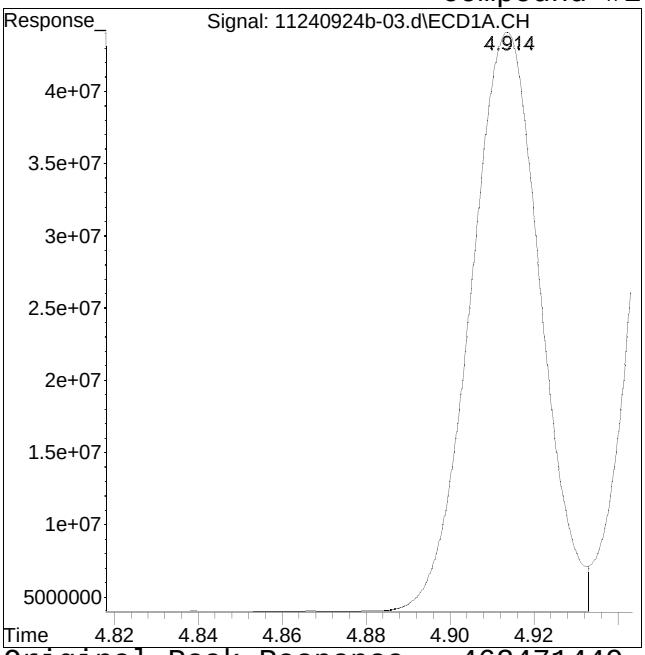
Manual Peak Response = 366434511 M4

M4 = Poor automated baseline construction.

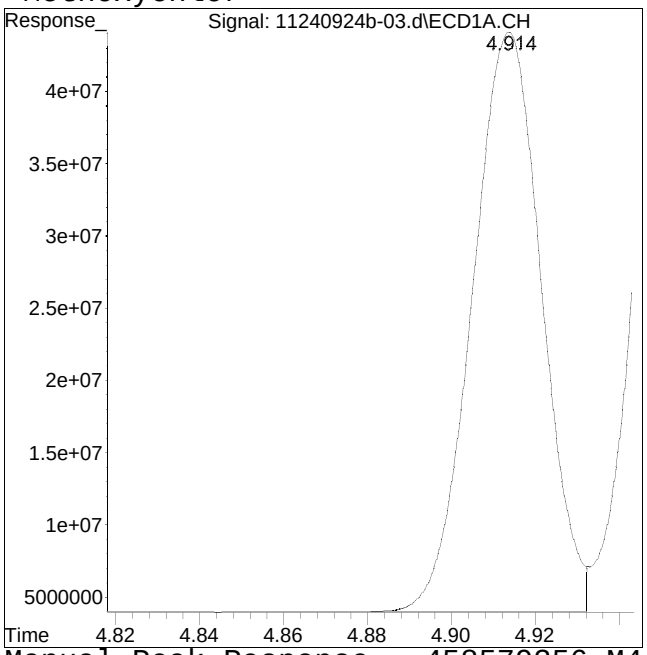
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #23: Methoxychlor



Original Peak Response = 462471449



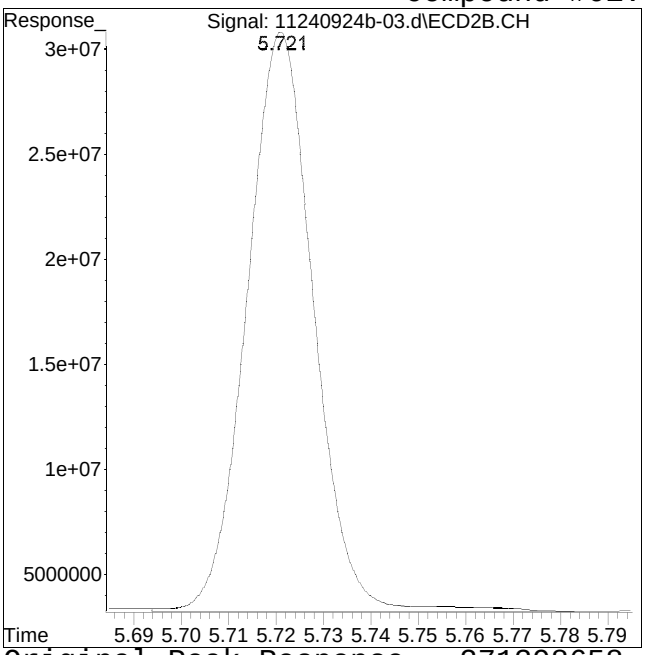
Manual Peak Response = 458579356 M4

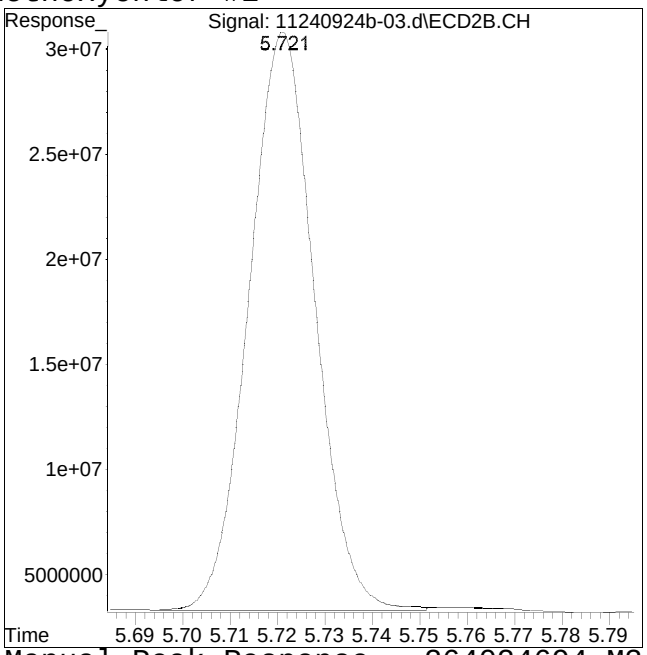
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #61: Methoxychlor #2



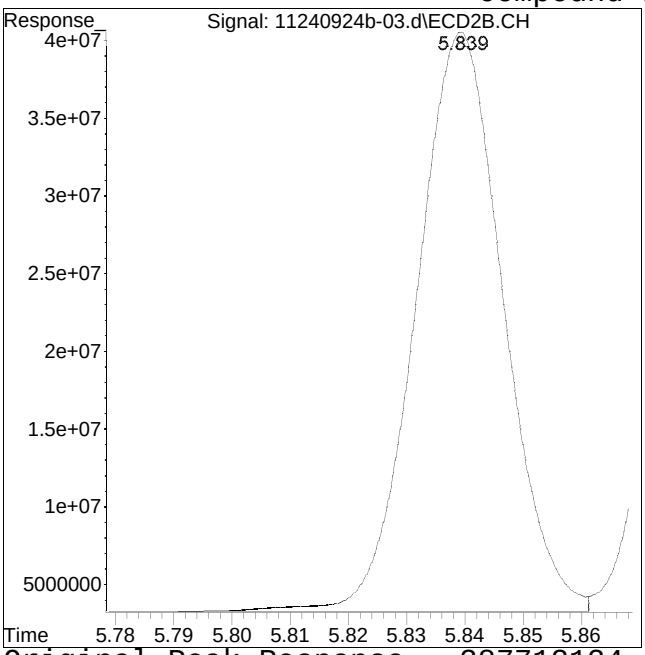


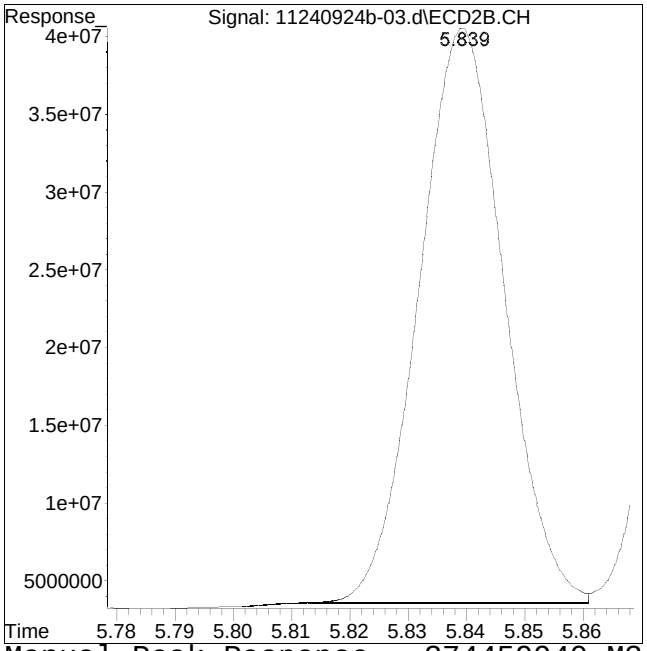
Original Peak Response = 271398658 Manual Peak Response = 264024694 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #62: Mirex #2



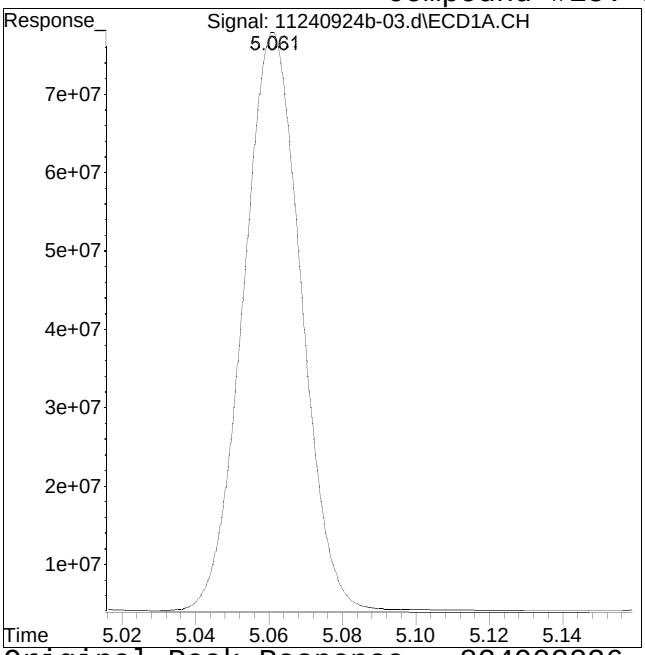


Original Peak Response = 387712124 Manual Peak Response = 374459940 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

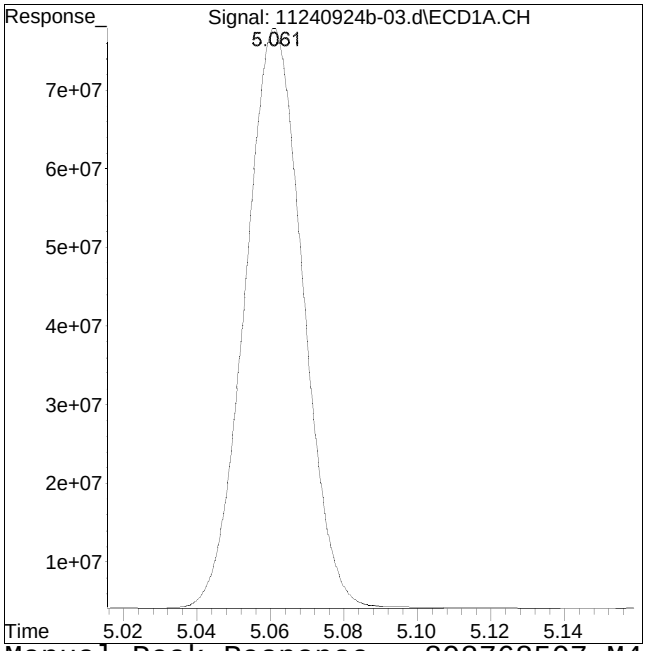
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 824902226



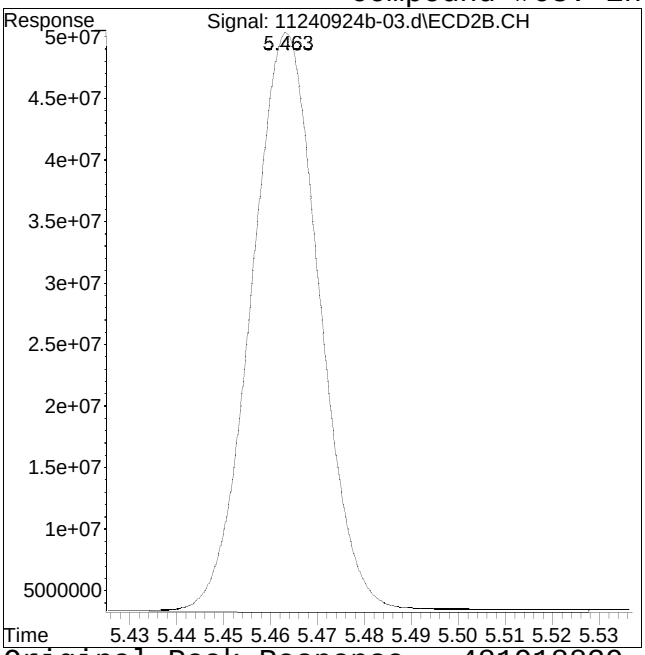
Manual Peak Response = 808768507 M4

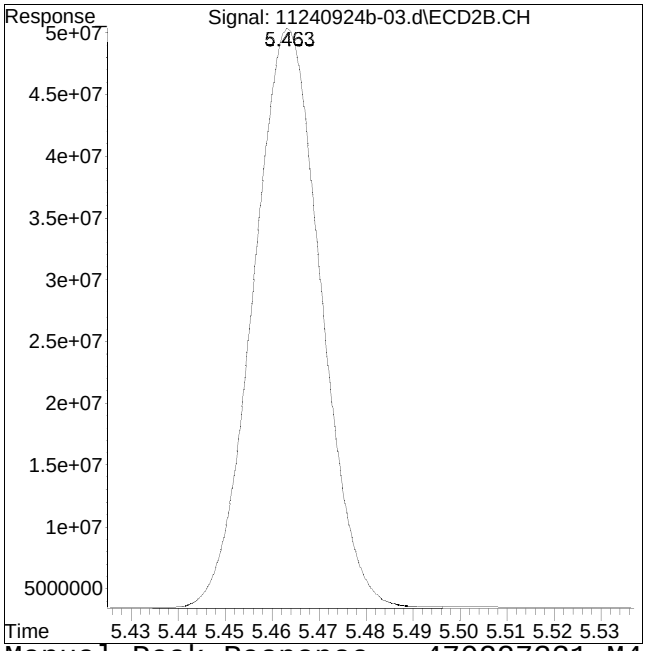
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #63: Endosulfan Sulfate #2



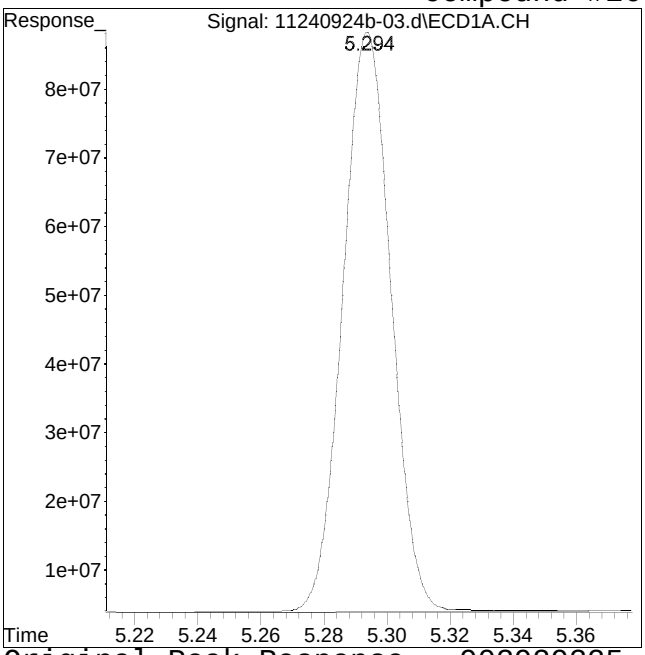


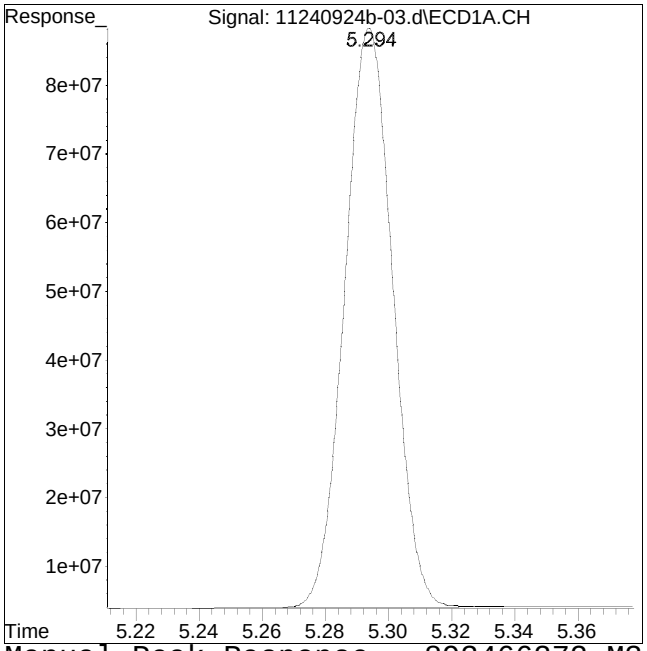
Original Peak Response = 481918839 Manual Peak Response = 470227331 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #26: Endrin Ketone



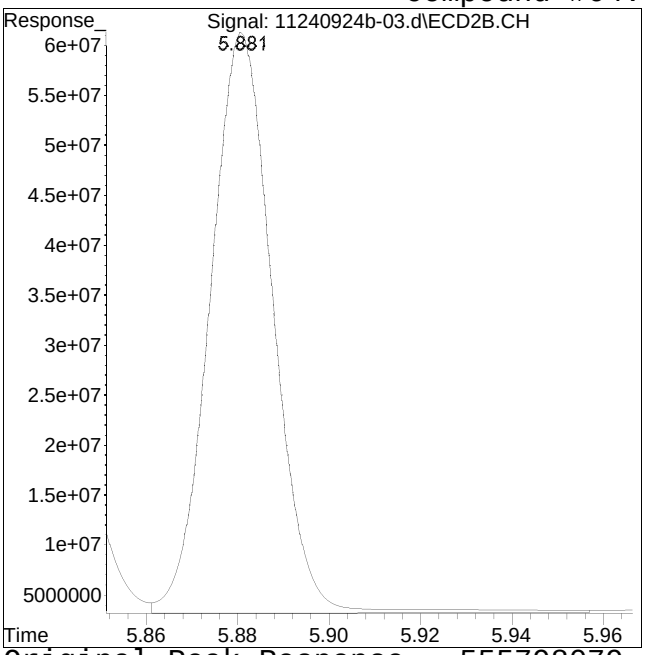


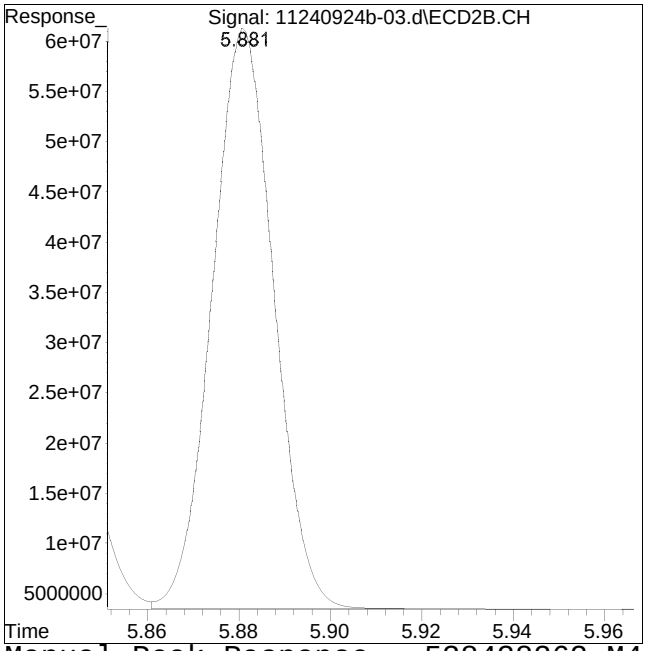
Original Peak Response = 903929325 Manual Peak Response = 893466272 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #64: Endrin Ketone #2



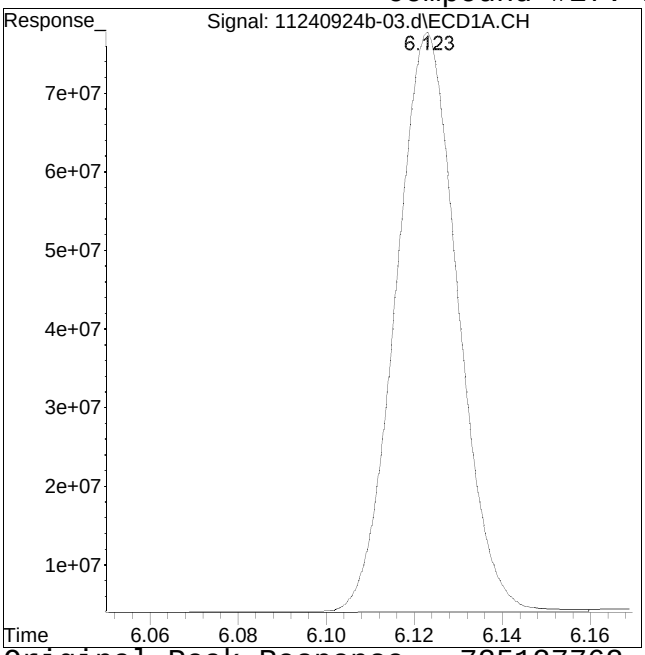


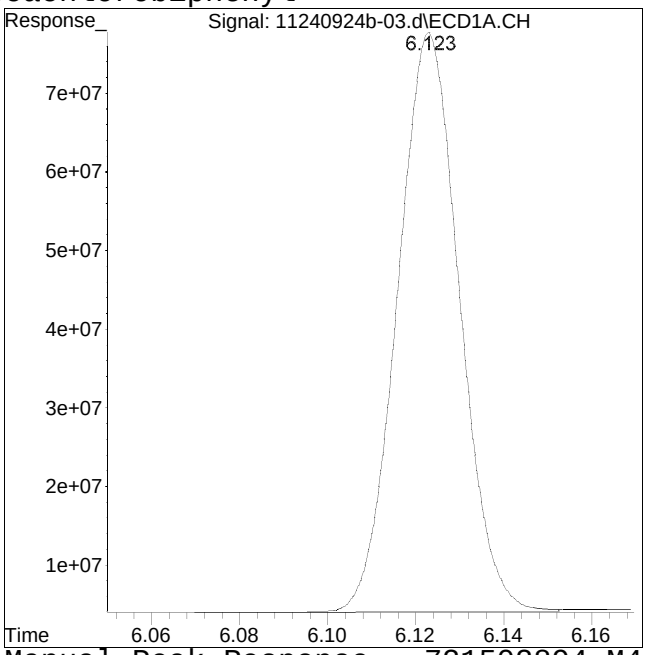
Original Peak Response = 555798079 Manual Peak Response = 538438262 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #27: Decachlorobiphenyl



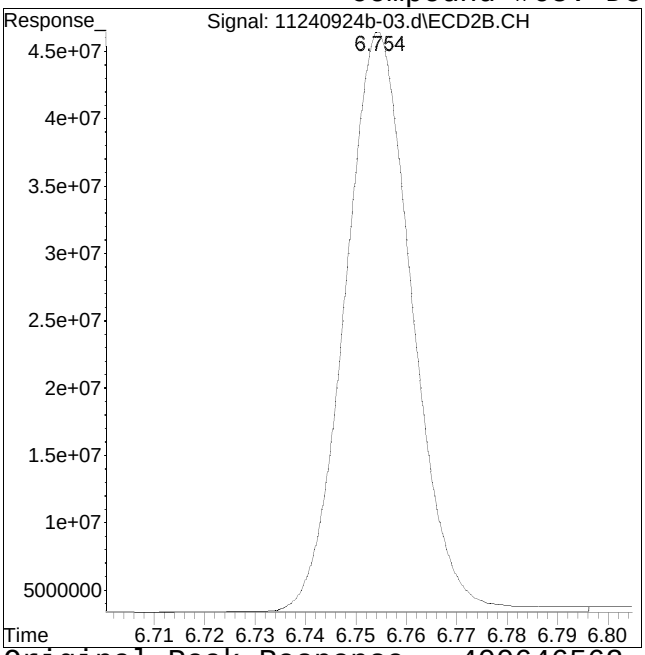


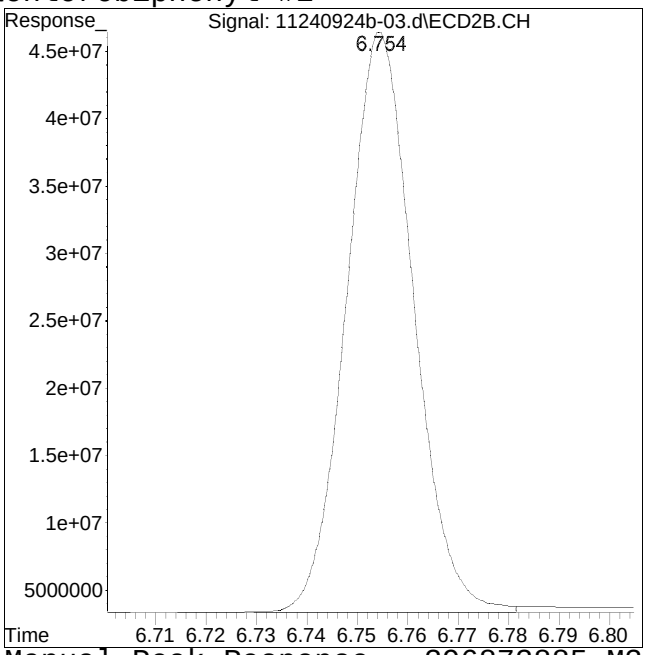
Original Peak Response = 725127762 Manual Peak Response = 721502894 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-03.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:24 Instrument : Pest 11
Sample : wg1975804-1,42,,pest11675 Quant Date : 9/25/2024 7:49 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 400646562 Manual Peak Response = 396873885 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 21:36
Operator : PEST11:jag
Sample   : wg1975804-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc   : wg1975804,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 24 21:48:06 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Tue Sep 24 21:48:00 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	129	0.00
29	l1	chlordane-1		*1000.000	1073.481	-7.3	135	0.00
30	l1	chlordane-3		*1000.000	1081.482	-8.1	131	0.00
31	l1	chlordane-4		*1000.000	1072.344	-7.2	132	0.00
32	l1	chlordane-5		*1000.000	1205.536	-20.6#	147	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	113	0.00
29	l1	chlordane-1		*1000.000	812.665	18.7	87	0.00
30	l1	chlordane-3		*1000.000	837.258	16.3	85	0.00
31	l1	chlordane-4		*1000.000	755.059	24.5#	80	0.00
32	l1	chlordane-5		*1000.000	744.543	25.5#	79	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.19#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.52#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.72#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.81#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.00#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.06#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.18#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.33#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.56#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.68#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.77#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.08#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.20#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 21:36
Operator : PEST11:jag
Sample   : wg1975804-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc   : wg1975804,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 24 21:48:06 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Tue Sep 24 21:48:00 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.33#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.43#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.46#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.71#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.95#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.08#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.21#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.39#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.65#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.91#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.95#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.06#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.29#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.12#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.19#
34	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.20#
35	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-4.33#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-4.58#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-4.97#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.71#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.01#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.10#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.37#
6	t	beta-BHC	*	50.000	0.000	100.0#	0	-2.43#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 21:36
Operator : PEST11:jag
Sample   : wg1975804-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc   : wg1975804,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 24 21:48:06 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Tue Sep 24 21:48:00 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.74#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.04#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.94#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.28#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.63#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.85#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.01#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.23#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.08#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.39#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.71#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.85#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.92#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.13#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.23#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.72#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.84#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.46#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.88#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.75#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.26#
34	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-4.88#
35	l2	toxaphene-3	*	2000.000	0.000	100.0#	0	-4.91#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.24#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.65#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:36
Operator : PEST11:jag
Sample : wg1975804-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 24 21:48:06 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Tue Sep 24 21:48:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.190	1.262	286.8E6	209.2E6	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:36
Operator : PEST11:jag
Sample : wg1975804-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 24 21:48:06 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Tue Sep 24 21:48:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.272	2.615	448.3E6	253.3E6	1073.481	812.665	
30) l1	chlordane-3	2.670	3.193	524.8E6	287.1E6	1081.482	837.258	
31) l1	chlordane-4	3.202	3.848	1914.6E6	987.5E6	1072.344	755.059	
32) l1	chlordane-5	3.322	4.016	3303.6E6	748.2E6	1205.536	744.543	
Sum	chlordane-1			6191.2E6	2276.0E6	N.D.	N.D.	D
Average	chlordane-1					1108.211	787.381	
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			0	0	N.D.	N.D.	
Average	toxaphene-2					0.000	0.000	

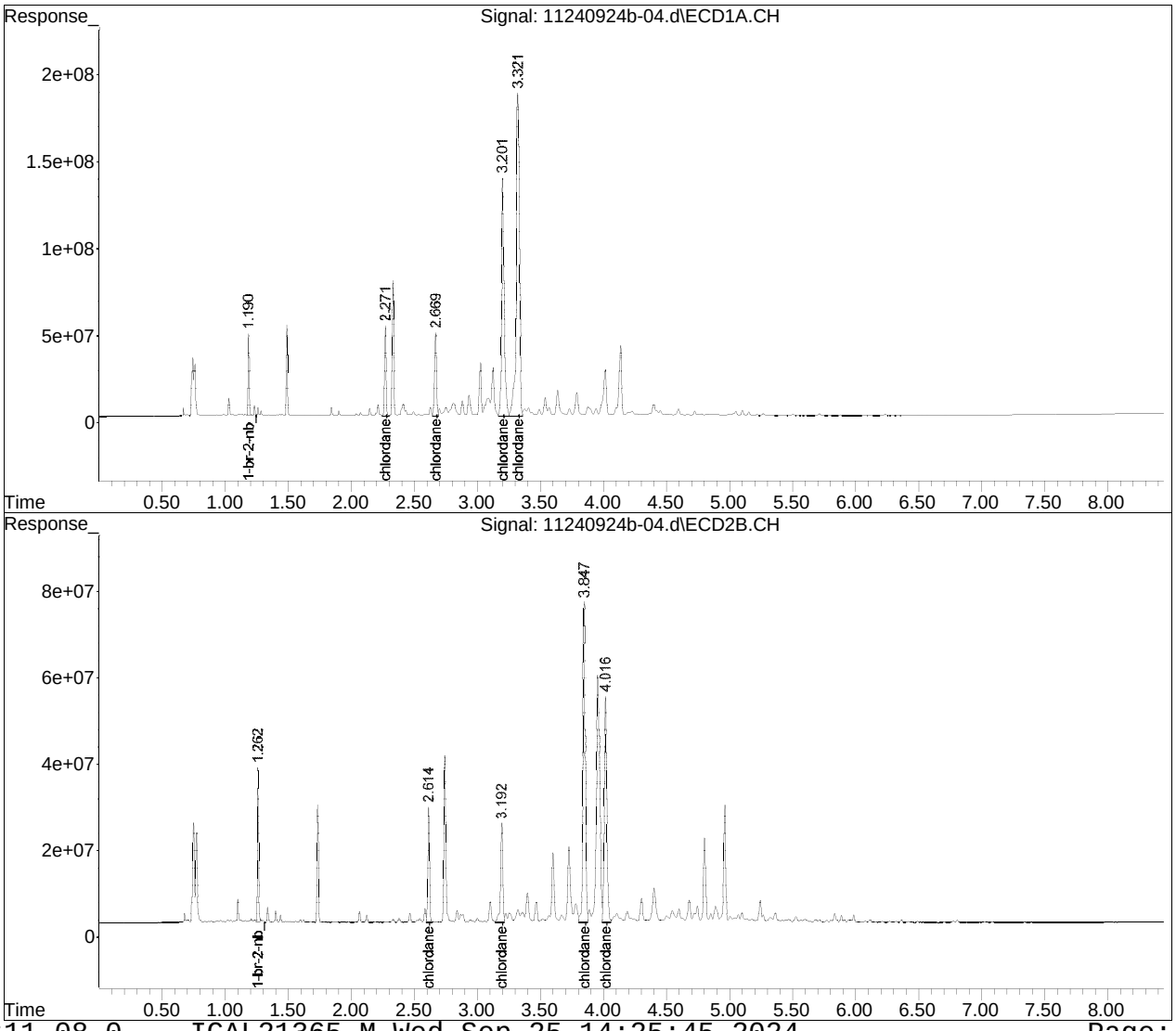
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:36
Operator : PEST11:jag
Sample : wg1975804-2,42,,chlor11670 (Sig #1); chlor11670 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 24 21:48:06 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Tue Sep 24 21:48:00 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

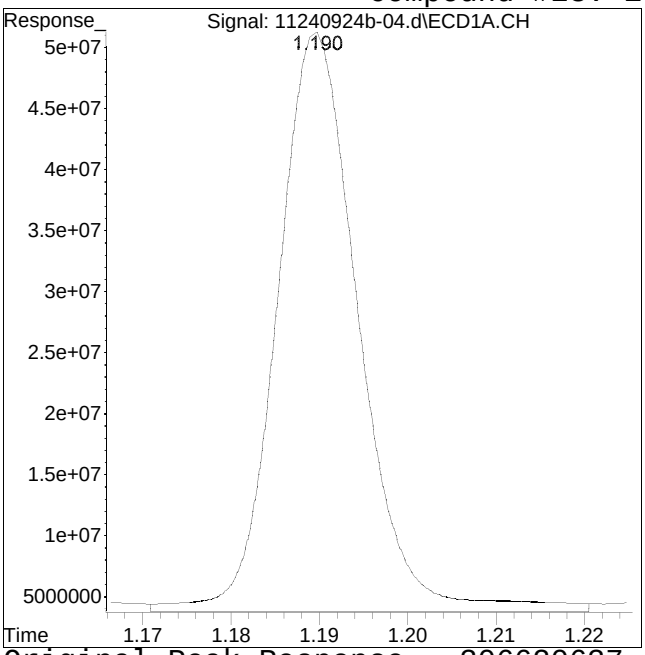
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

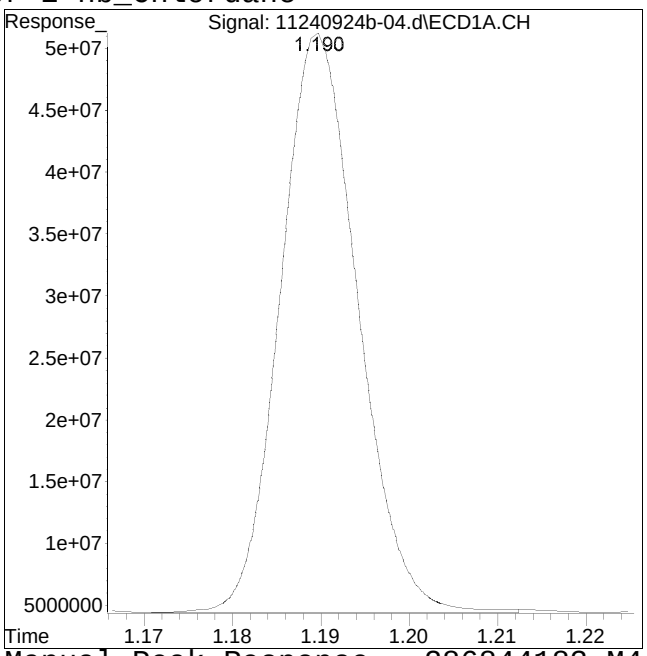


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-04.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:36 Instrument : Pest 11
Sample : wg1975804-2,42,,chlor11670Quant Date : 9/24/2024 9:48 pm

Compound #28: 1-br-2-nb_Chlordane



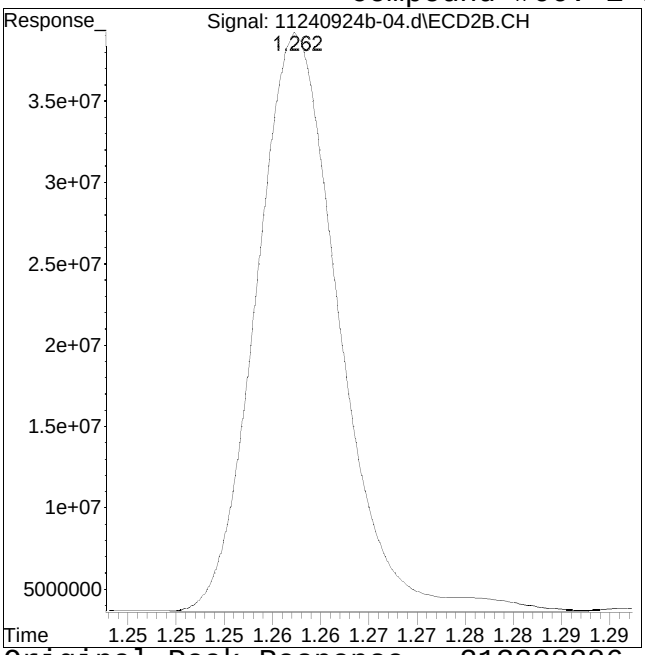


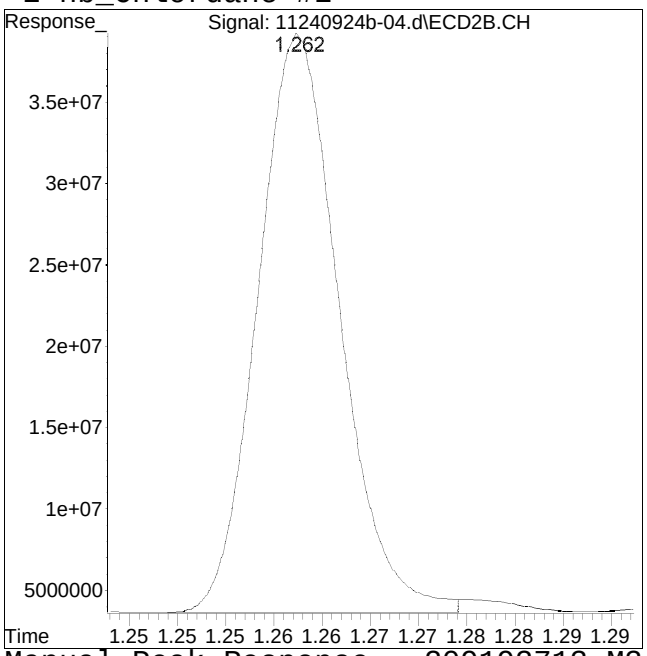
Original Peak Response = 306620637 Manual Peak Response = 286844183 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-04.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:36 Instrument : Pest 11
Sample : wg1975804-2,42,,chlor11670Quant Date : 9/24/2024 9:48 pm

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 213228286 Manual Peak Response = 209193713 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 21:48
Operator : PEST11:jag
Sample   : wg1975804-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1975804,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 08:32:59 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:52 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	141	0.00
34	l2	toxaphene-2		*2000.000	2557.481	-27.9#	175	0.00
35	l2	toxaphene-3		*2000.000	2516.375	-25.8#	173	0.00
36	l2	toxaphene-4		*2000.000	2092.285	-4.6	146	0.00
37	l2	toxaphene-5		*2000.000	2319.671	-16.0	160	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	116	0.00
34	l2	toxaphene-2		*2000.000	1811.758	9.4	104	0.00
35	l2	toxaphene-3		*2000.000	1893.486	5.3	108	0.00
36	l2	toxaphene-4		*2000.000	1754.985	12.3	101	0.00
37	l2	toxaphene-5		*2000.000	1880.849	6.0	108	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.19#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-1.52#
3	t	Hexachlorobenzene		1.406	0.000	100.0#	0#	-1.72#
4	t	alpha-BHC		1.461	0.000	100.0#	0#	-1.81#
5	t	gamma-BHC (lindane)		1.395	0.000	100.0#	0#	-2.00#
6	t	beta-BHC		0.628	0.000	100.0#	0#	-2.06#
7	t	delta-BHC		1.374	0.000	100.0#	0#	-2.18#
8	t	Heptachlor		1.321	0.000	100.0#	0#	-2.33#
9	t	Aldrin		1.233	0.000	100.0#	0#	-2.56#
10	t	Alachlor		0.230	0.000	100.0#	0#	-2.68#
11	t	Chlorpyrifos		0.590	0.000	100.0#	0#	-2.77#
12	t	Heptachlor Epoxide		1.185	0.000	100.0#	0#	-3.08#
13	t	gamma-Chlordane (trans)		1.077	0.000	100.0#	0#	-3.20#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 21:48
Operator : PEST11:jag
Sample   : wg1975804-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1975804,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 08:32:59 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:52 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.216	0.000	100.0#	0#	-3.33#
15	t	4,4'-DDE		1.192	0.000	100.0#	0#	-3.43#
16	t	Endosulfan I		1.116	0.000	100.0#	0#	-3.46#
17	t	Dieldrin		1.135	0.000	100.0#	0#	-3.71#
18	t	Endrin		1.153	0.000	100.0#	0#	-3.95#
19	t	4,4'-DDD		0.927	0.000	100.0#	0#	-4.08#
20	t	Endosulfan II		1.052	0.000	100.0#	0#	-4.21#
21	t	4,4'-DDT		1.058	0.000	100.0#	0#	-4.39#
22	t	Endrin Aldehyde		0.886	0.000	100.0#	0#	-4.65#
23	t	Methoxychlor		0.592	0.000	100.0#	0#	-4.91#
24	t	Mirex		0.938	0.000	100.0#	0#	-4.95#
25	t	Endosulfan Sulfate		1.010	0.000	100.0#	0#	-5.06#
26	t	Endrin Ketone		1.183	0.000	100.0#	0#	-5.29#
27	s	Decachlorobiphenyl		1.163	0.000	100.0#	0#	-6.12#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.19#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.27#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.67#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-3.20#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.32#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.26#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.114	0.000	100.0#	0#	-1.71#
3	t	Hexachlorobenzene		1.239	0.000	100.0#	0#	-2.01#
4	t	alpha-BHC		1.620	0.000	100.0#	0#	-2.10#
5	t	gamma-BHC (lindane)		1.539	0.000	100.0#	0#	-2.37#
6	t	beta-BHC		* 50.000	0.000	100.0#	0	-2.43#
7	t	delta-BHC		1.523	0.000	100.0#	0#	-2.68#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 24 Sep 2024 21:48
Operator : PEST11:jag
Sample   : wg1975804-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc   : wg1975804,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 08:32:59 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:52 2024
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.598	0.000	100.0#	0#	-2.74#
9	t	Aldrin		1.435	0.000	100.0#	0#	-3.04#
10	t	Alachlor	*	50.000	0.000	100.0#	0	-2.94#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.28#
12	t	Heptachlor Epoxide		1.425	0.000	100.0#	0#	-3.63#
13	t	gamma-Chlordane (trans)		1.312	0.000	100.0#	0#	-3.85#
14	t	alpha-Chlordane (cis)		1.446	0.000	100.0#	0#	-4.01#
15	t	4,4'-DDE		1.343	0.000	100.0#	0#	-4.23#
16	t	Endosulfan I		1.332	0.000	100.0#	0#	-4.08#
17	t	Dieldrin		1.327	0.000	100.0#	0#	-4.39#
18	t	Endrin		1.347	0.000	100.0#	0#	-4.71#
19	t	4,4'-DDD		1.084	0.000	100.0#	0#	-4.85#
20	t	Endosulfan II		1.214	0.000	100.0#	0#	-4.92#
21	t	4,4'-DDT		1.250	0.000	100.0#	0#	-5.13#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.23#
23	t	Methoxychlor		0.704	0.000	100.0#	0#	-5.72#
24	t	Mirex	*	50.000	0.000	100.0#	0	-5.84#
25	t	Endosulfan Sulfate		1.199	0.000	100.0#	0#	-5.46#
26	t	Endrin Ketone		1.261	0.000	100.0#	0#	-5.88#
27	s	Decachlorobiphenyl		1.060	0.000	100.0#	0#	-6.75#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.26#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-2.61#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.19#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-3.85#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.02#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:48
Operator : PEST11:jag
Sample : wg1975804-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 08:32:59 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.190	1.263	308.6E6	201.5E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:48
Operator : PEST11:jag
Sample : wg1975804-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 08:32:59 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-2	4.202	4.878	1757.1E6	344.1E6	2557.481	1811.758
35) l2	toxaphene-3	4.334	4.906	1350.9E6	531.9E6	2516.375M3	1893.486
36) l2	toxaphene-4	4.579	5.238	1130.6E6	591.8E6	2092.285	1754.985
37) l2	toxaphene-5	4.966	5.653	1136.7E6	584.3E6	2319.671	1880.849
Sum	toxaphene-2			5375.4E6	2052.1E6	9485.811	7341.079
Average	toxaphene-2					2371.453	1835.270

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-2			5375.4E6	2052.1E6	9485.811	7341.079
Average	toxaphene-2					2371.453	1835.270

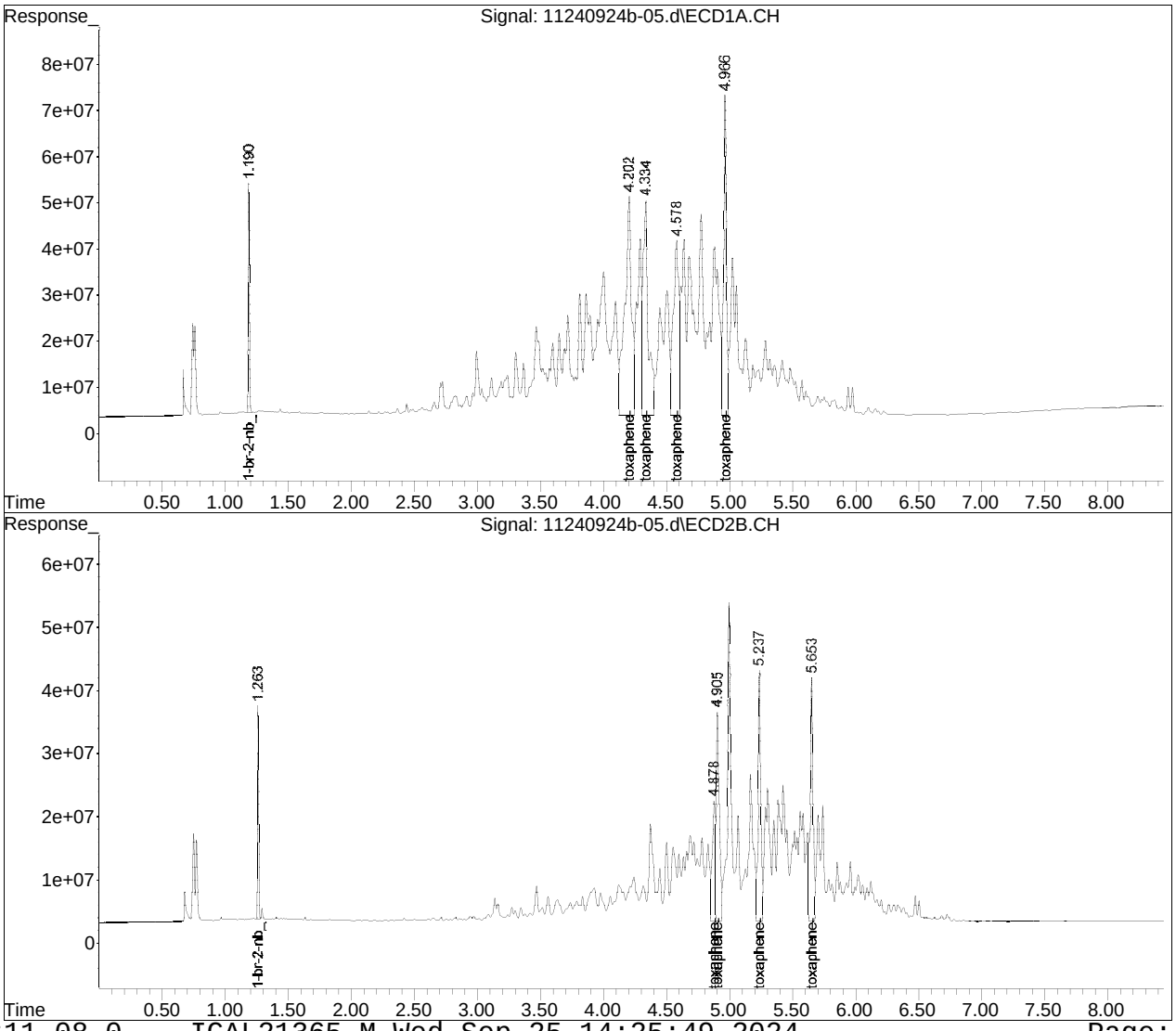
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:48
Operator : PEST11:jag
Sample : wg1975804-3,42,,tox11668 (Sig #1); tox11668 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 08:32:59 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:52 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

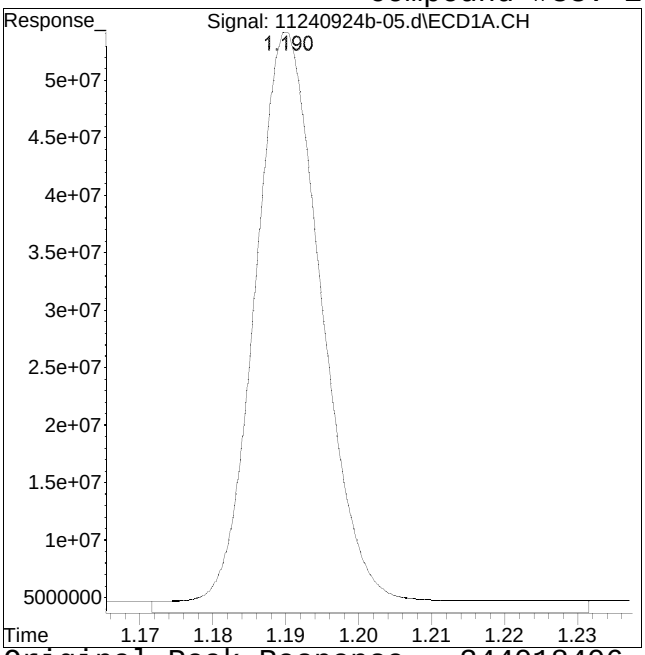
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

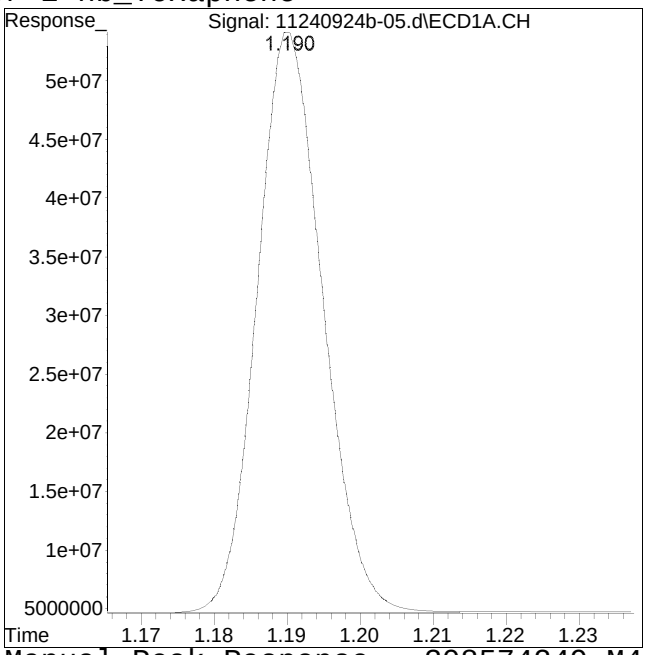


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-05.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:48 Instrument : Pest 11
Sample : wg1975804-3,42,,tox11668 Quant Date : 9/25/2024 8:32 am

Compound #33: 1-br-2-nb_Toxaphene



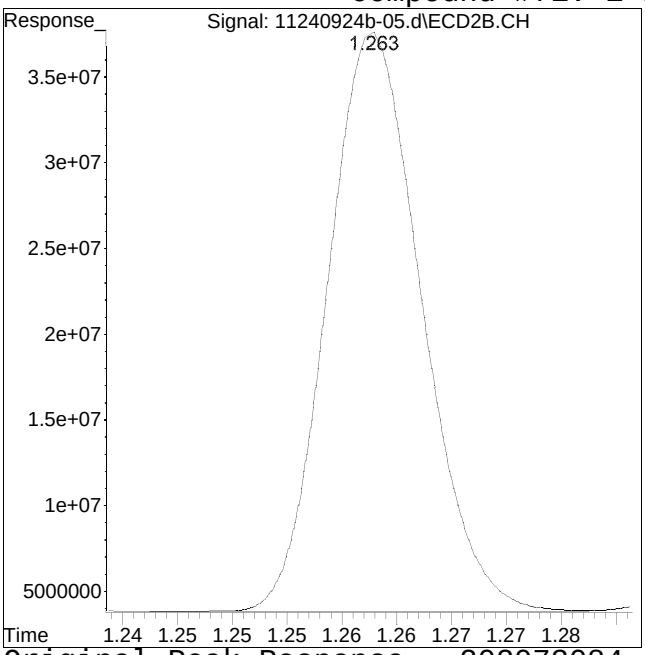


Original Peak Response = 344018406 Manual Peak Response = 308574249 M4
M4 = Poor automated baseline construction.

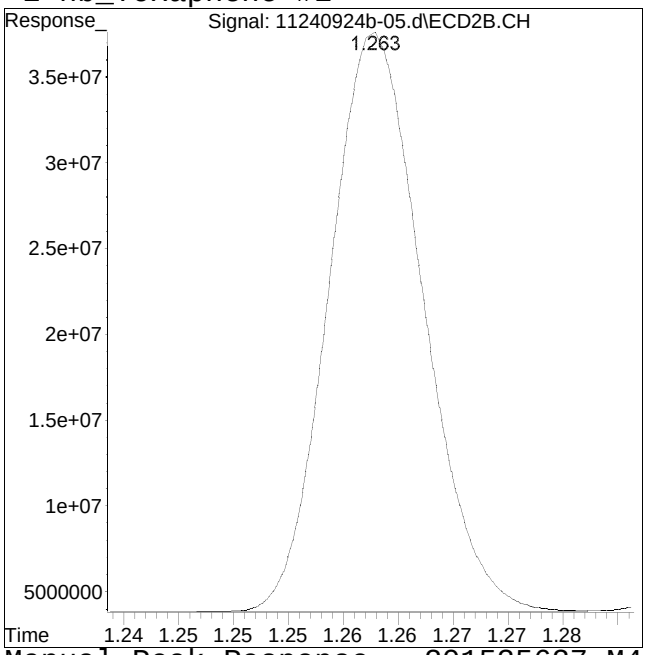
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-05.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:48 Instrument : Pest 11
Sample : wg1975804-3,42,,tox11668 Quant Date : 9/25/2024 8:32 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 202073084



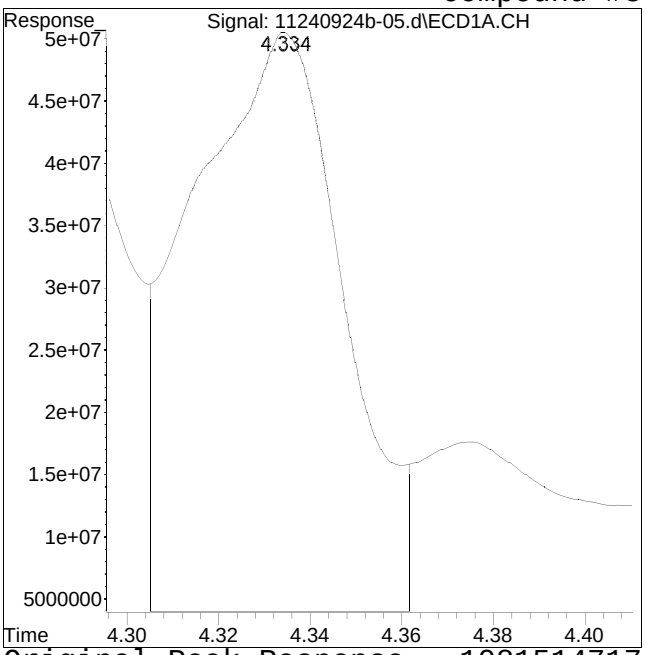
Manual Peak Response = 201535627 M4

M4 = Poor automated baseline construction.

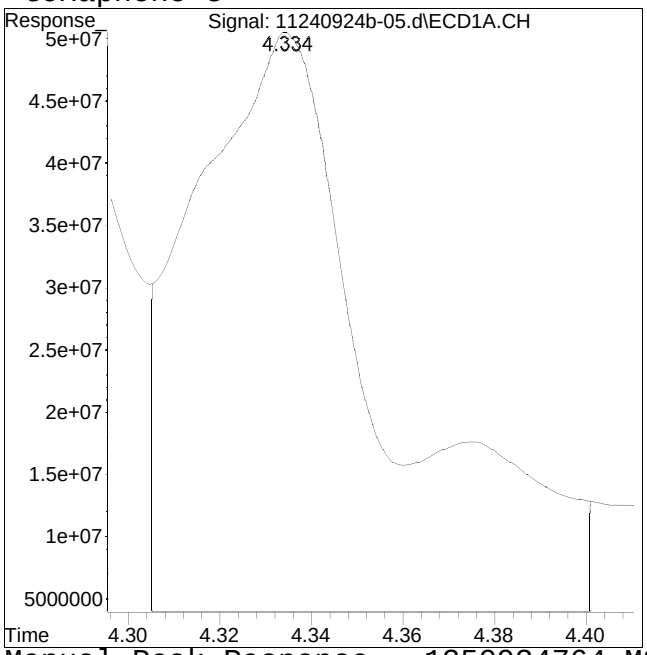
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-05.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:48 Instrument : Pest 11
Sample : wg1975804-3,42,,tox11668 Quant Date : 9/25/2024 8:32 am

Compound #35: toxaphene-3



Original Peak Response = 1081514717



Manual Peak Response = 1350934764 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: PEST11	**Analysis Date**	: 09/24/24 21:12
PEM Standard	: R1880176-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	602639.976	787183.5136
Endrin	776959393.168	475093699.728
4,4'-DDD	924403.51212	1257973.44
4,4'-DDT	1449118750.2832	892894667.8656
Endrin Aldehyde	0	0
Endrin Ketone	1564791.44946	1310218.70853

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.201	0.275
DDT	0.105	0.228

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:12
Operator : PEST11:jag
Sample : pem11240924b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 07:51:51 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 07:49:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.189	1.262	280.7E6	199.6E6	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15) t D	4,4'-DDE	3.426	4.232	602640	787184	0.045M4	0.073M4
18) t	Endrin	3.952	4.706	777.0E6	475.1E6	60.029M4	44.182M4
19) t D	4,4'-DDD	4.074	4.847	924404	1257973	0.089M4	0.145M4
21) t	4,4'-DDT	4.391	5.134	1449.1E6	892.9E6	121.940M4	89.447M4
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D. d
26) t	Endrin Keton	5.293	5.880	1564791	1310219	0.118M4	0.130M4
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-2			0	0	N.D.	N.D.
	Average toxaphene-2					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:12
Operator : PEST11:jag
Sample : pem11240924b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 07:51:51 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 07:49:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

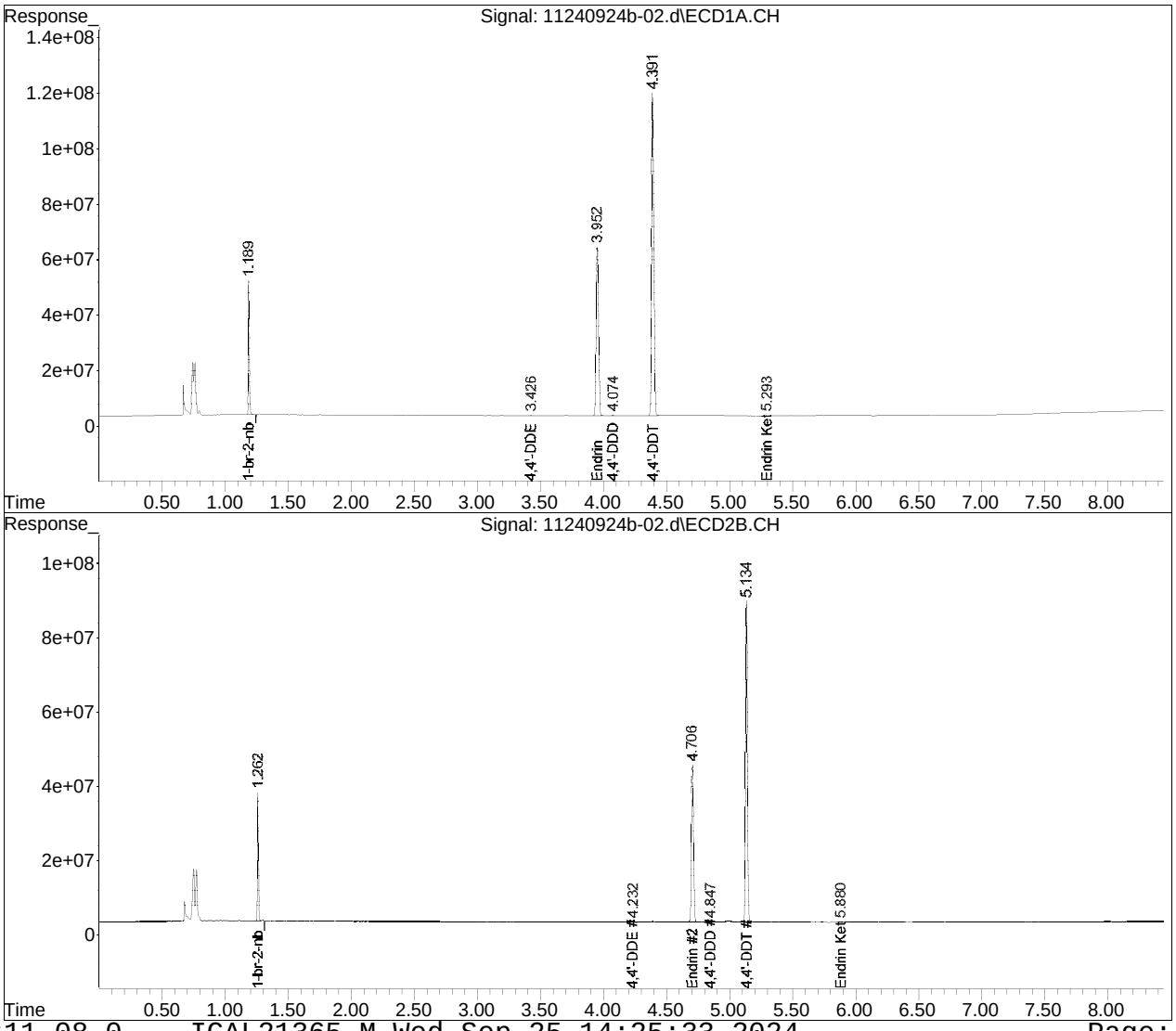
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 21:12
Operator : PEST11:jag
Sample : pem11240924b-01,42,,deg11573 (Sig #1); deg11573 (Sig #2)
Misc : wg1975804,,ical21365
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 07:51:51 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 07:49:16 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

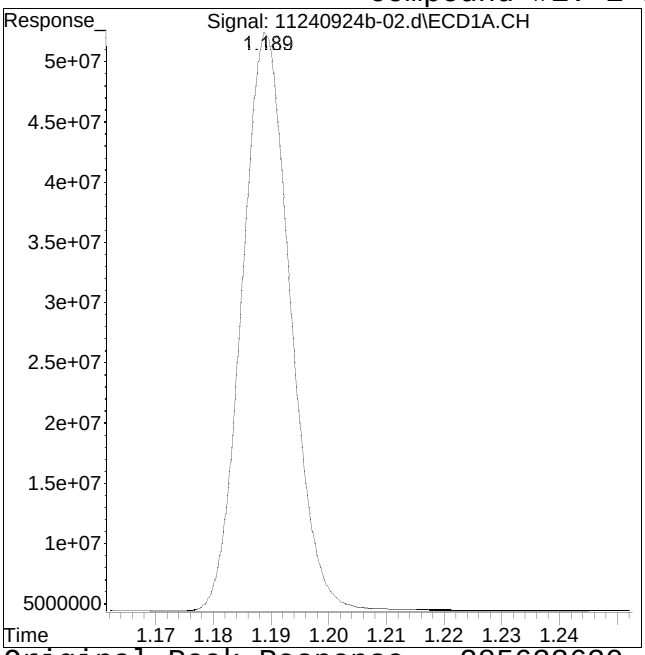
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



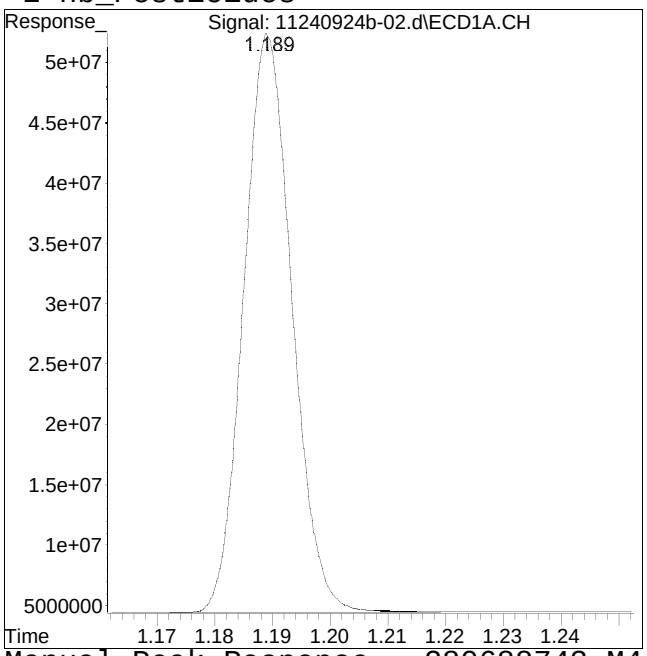
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 285633630



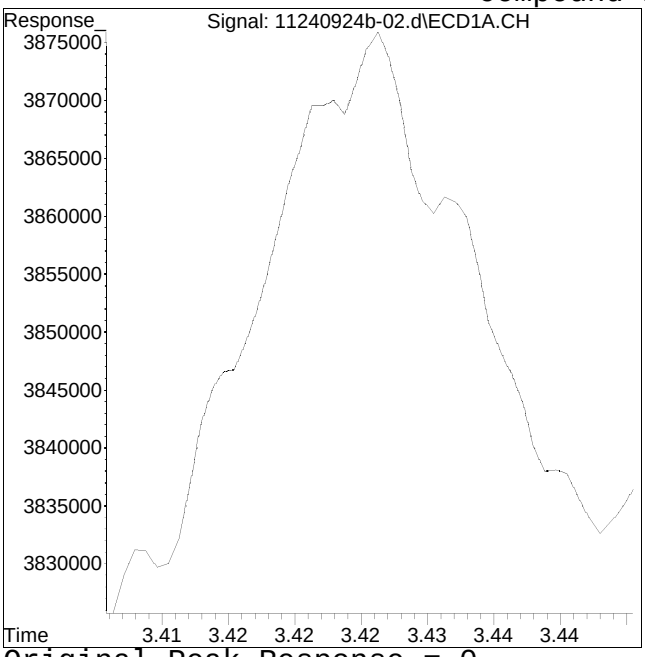
Manual Peak Response = 280688743 M4

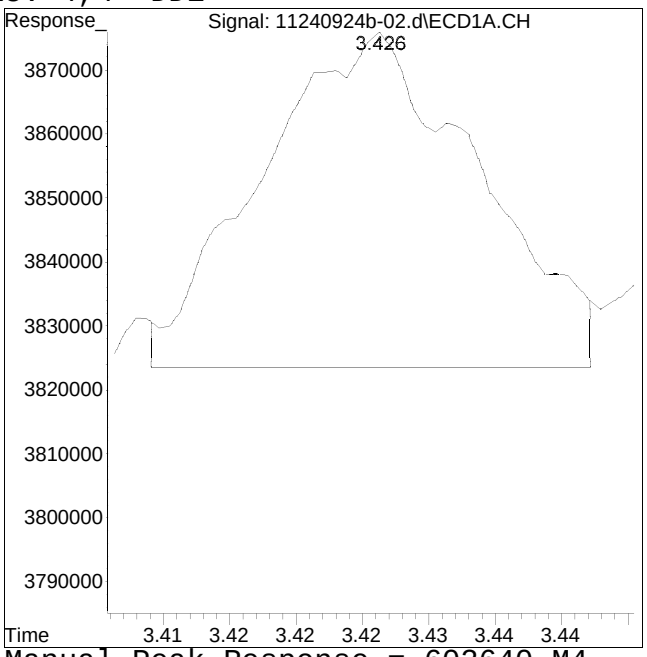
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #15: 4,4'-DDE



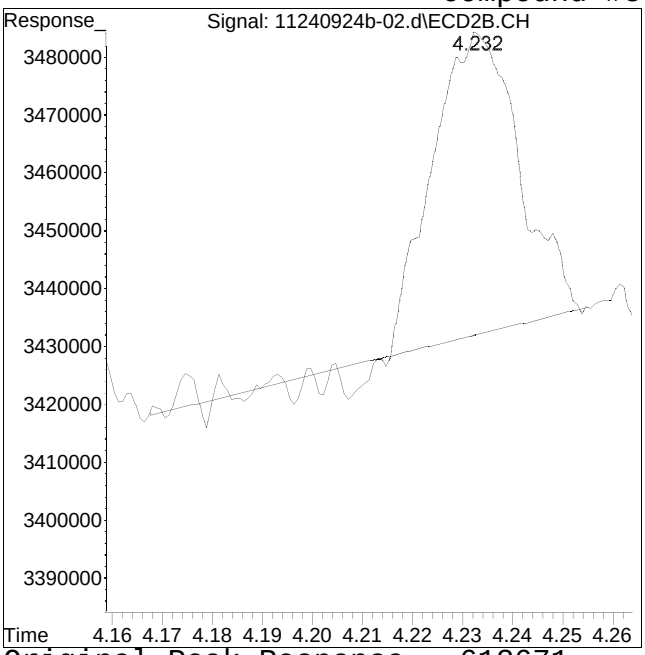


Original Peak Response = 0 Manual Peak Response = 602640 M4
M4 = Poor automated baseline construction.

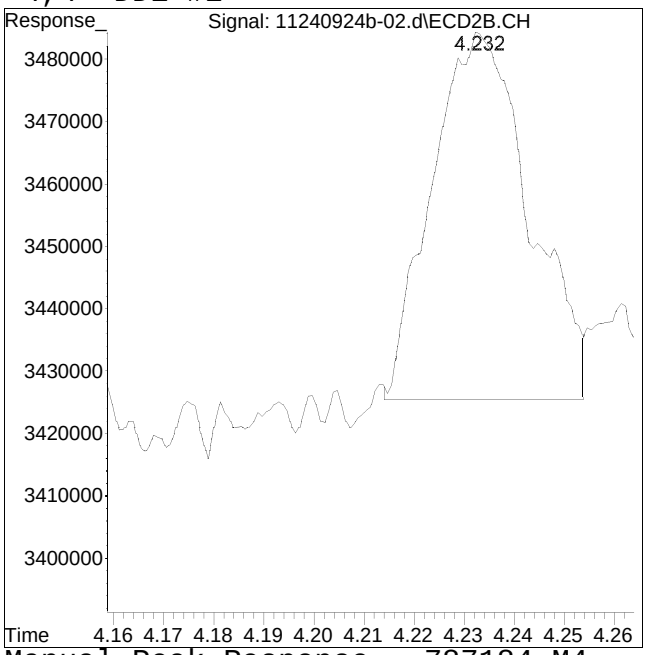
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 612671



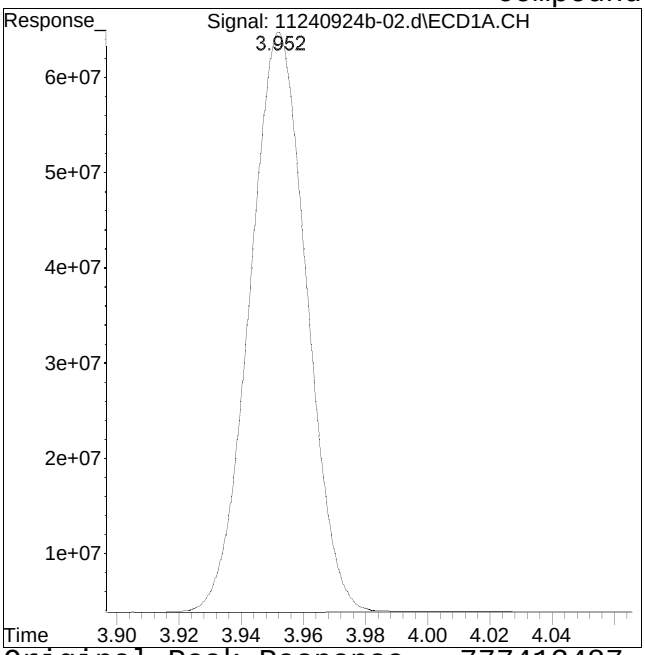
Manual Peak Response = 787184 M4

M4 = Poor automated baseline construction.

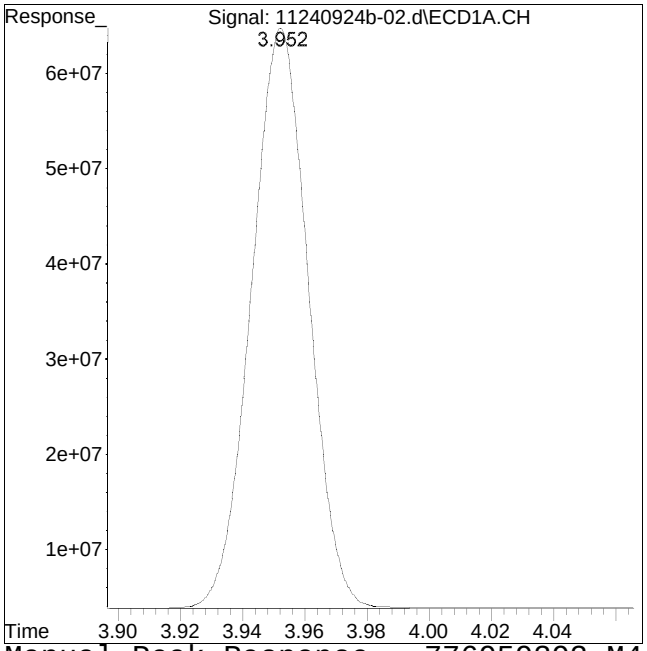
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #18: Endrin



Original Peak Response = 777413487



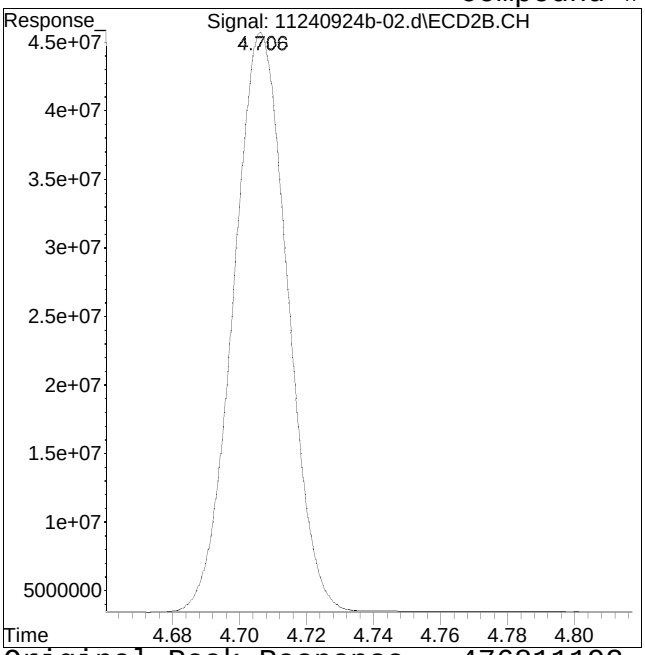
Manual Peak Response = 776959393 M4

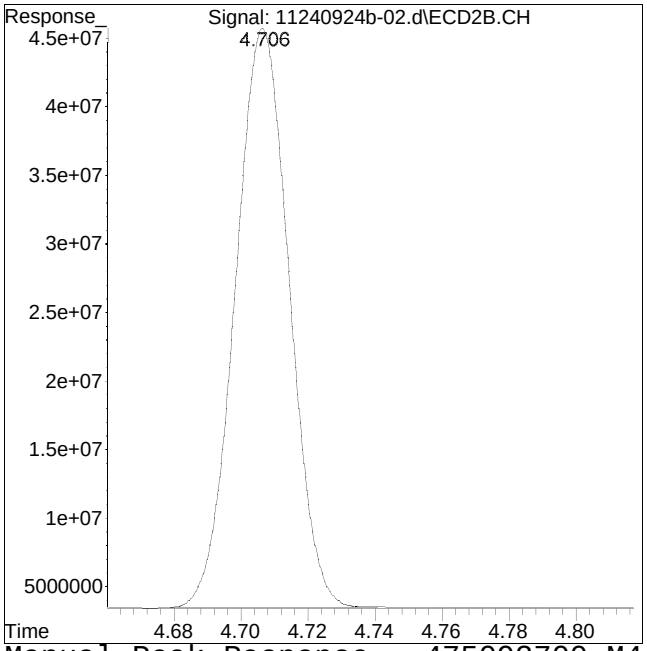
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #56: Endrin #2



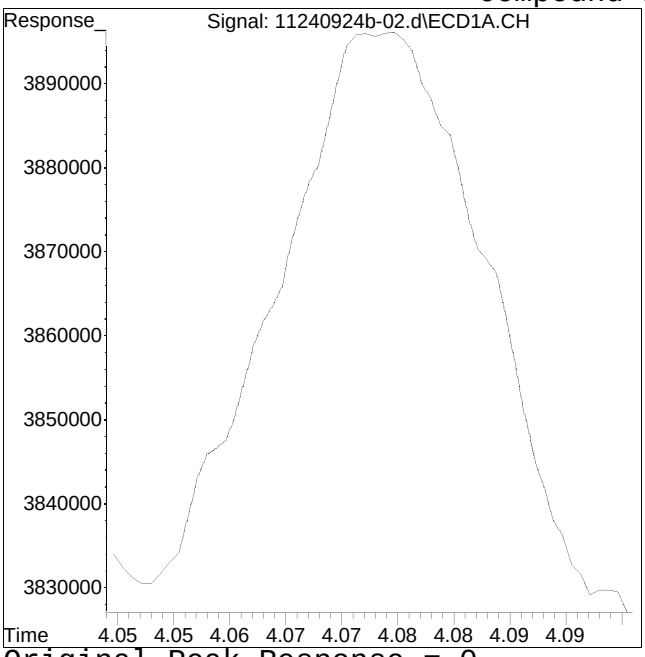


Original Peak Response = 476811192 Manual Peak Response = 475093700 M4
M4 = Poor automated baseline construction.

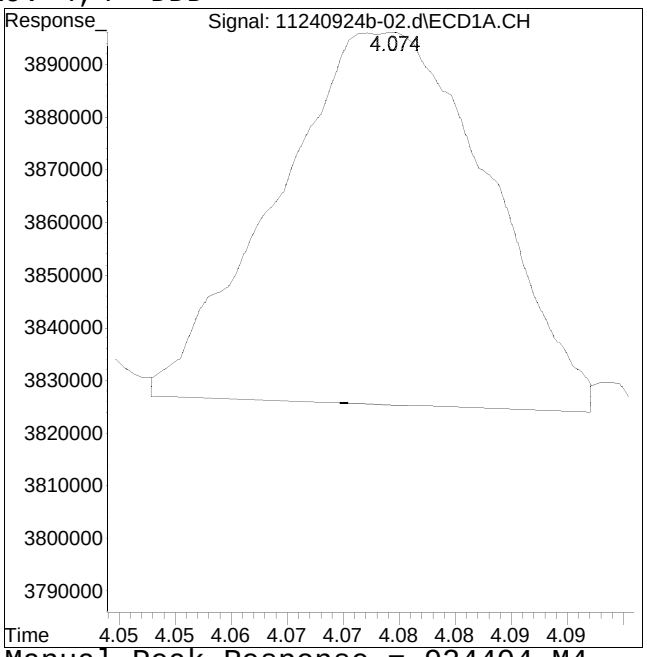
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #19: 4,4'-DDD



Original Peak Response = 0



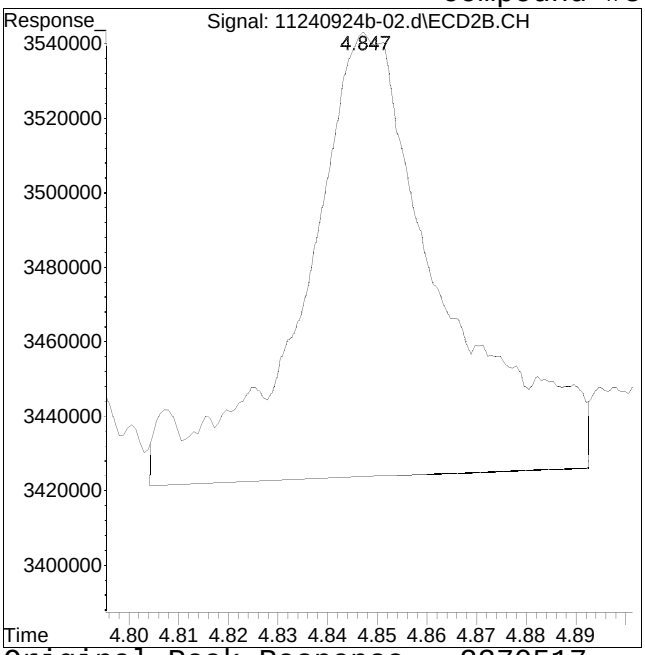
Manual Peak Response = 924404 M4

M4 = Poor automated baseline construction.

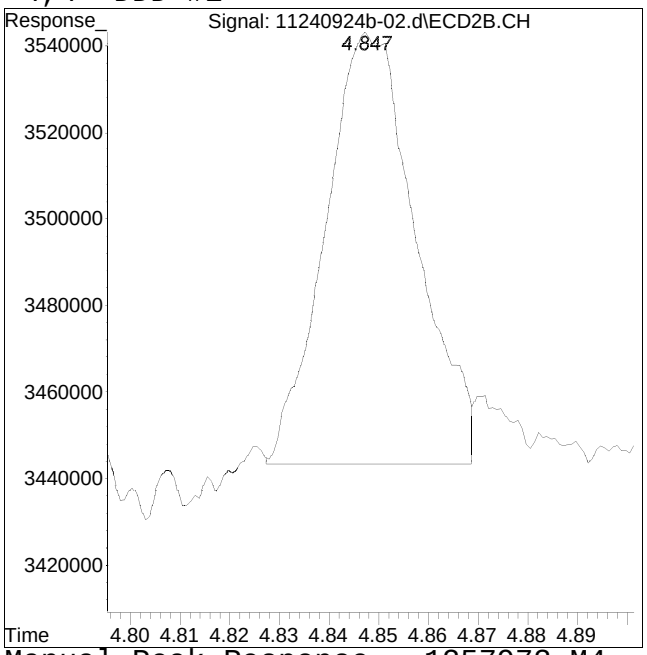
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 2370517



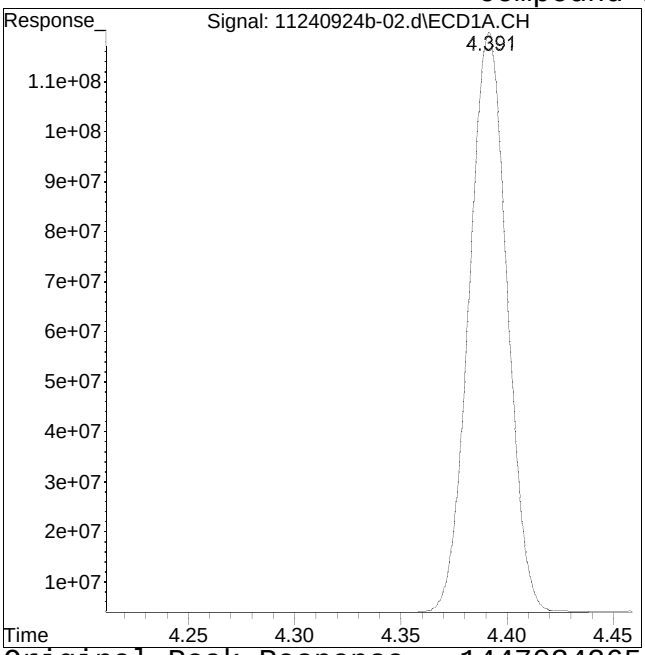
Manual Peak Response = 1257973 M4

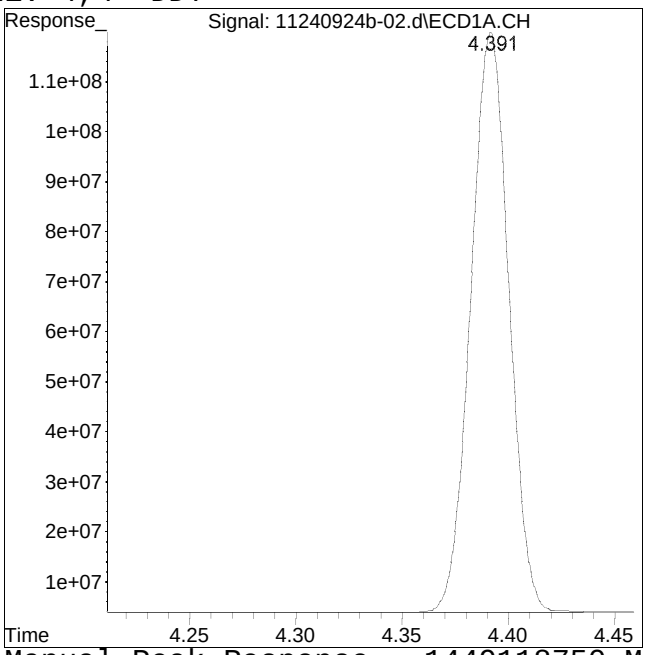
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #21: 4,4'-DDT



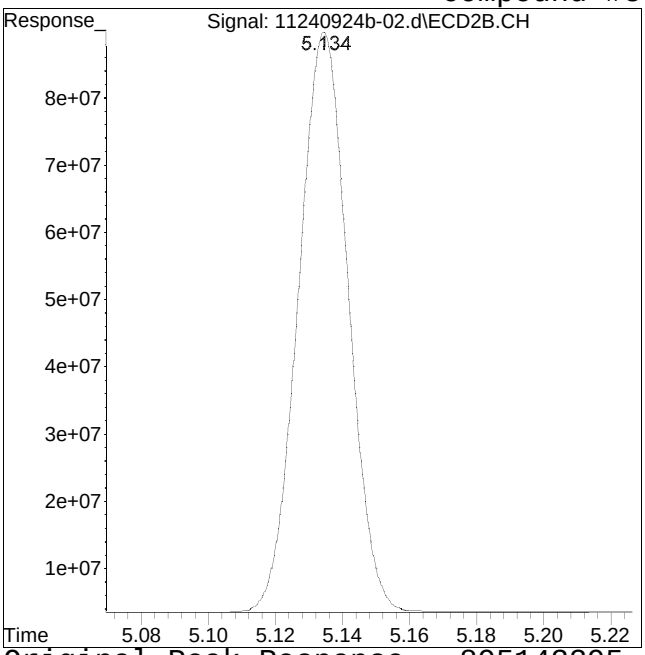


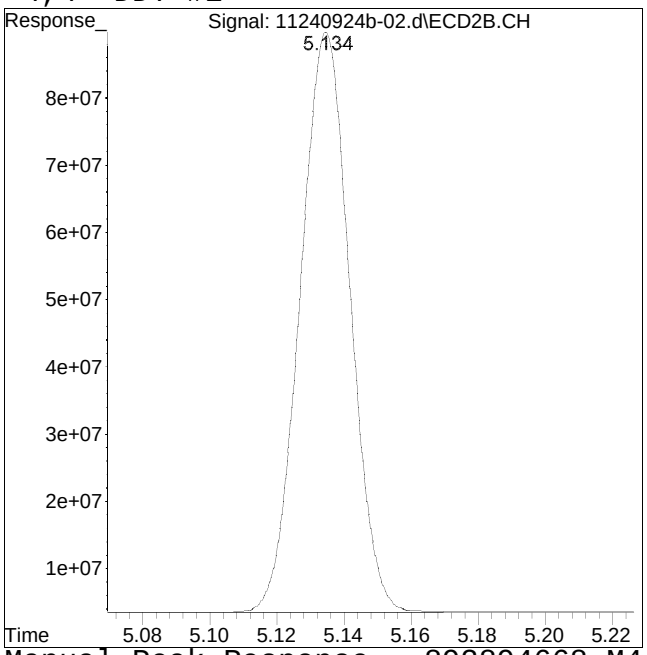
Original Peak Response = 1447034265 Manual Peak Response = 1449118750 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #59: 4,4'-DDT #2



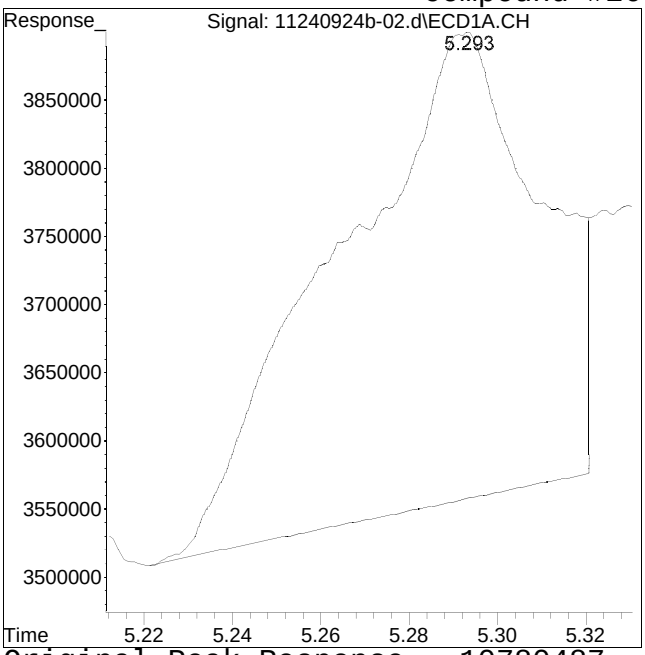


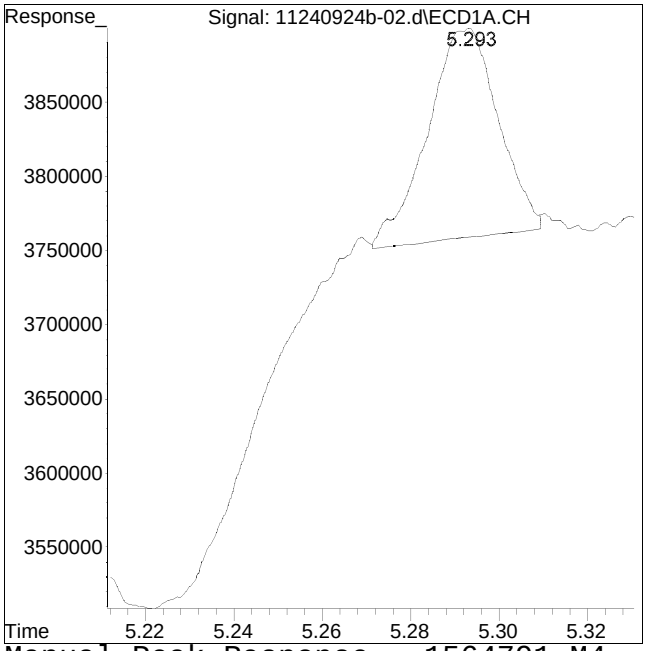
Original Peak Response = 895143395 Manual Peak Response = 892894668 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #26: Endrin Ketone



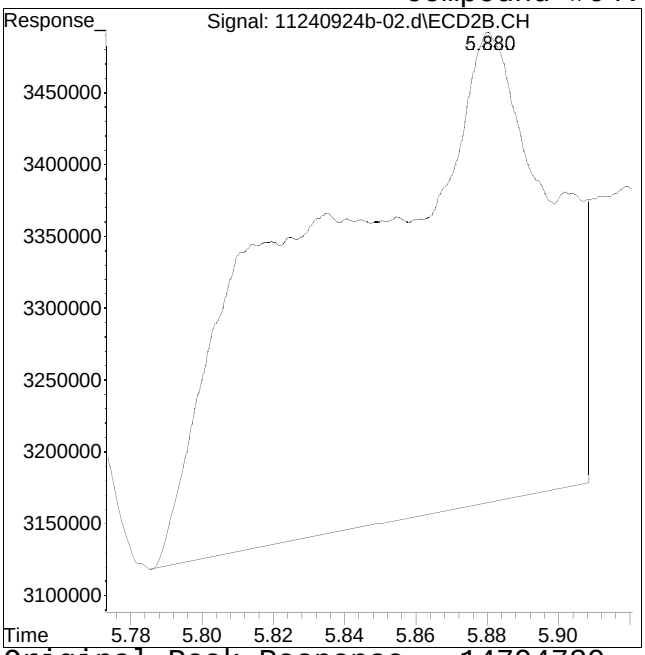


Original Peak Response = 10780487 Manual Peak Response = 1564791 M4
M4 = Poor automated baseline construction.

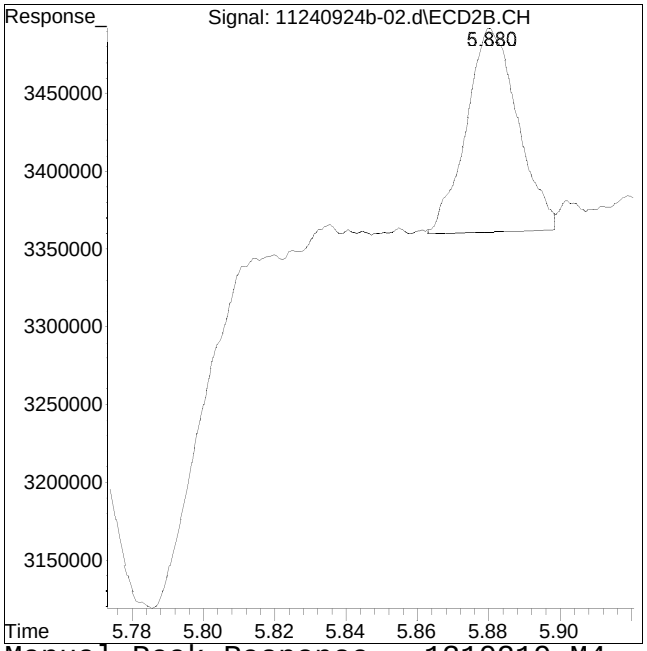
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-02.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 21:12 Instrument : Pest 11
Sample : pem11240924b-01,42,,deg115Quant Date : 9/25/2024 7:51 am

Compound #64: Endrin Ketone #2



Original Peak Response = 14794730



Manual Peak Response = 1310219 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2453720**
Project Name	**: CORAM MATERIALS**	**Project Number**	**: 2232.0006Y005**

No Detections Found

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:20
Operator : PEST11:jag
Sample : WG1975489-1,42,,
Misc : wg1975804,WG1975489,ical21365
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:30 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.191	1.263	320.6E6	204.4E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery = 110.89%		
	Standard Area 1 : #2 = 192001596				Recovery = 106.46%		
28) i	1-br-2-nb_Ch	1.191	1.263	320.6E6	204.4E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.191	1.263	320.6E6	204.4E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.519	1.710	385.2E6	235.3E6	28.905M4	25.844M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 57.81%		51.69%
27) s	Decachlorobi	6.126	6.756	407.9E6	214.8E6	27.349M4	24.789M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 54.70%		49.58%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:20
Operator : PEST11:jag
Sample : WG1975489-1,42,,
Misc : wg1975804,WG1975489,ical21365
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:30 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
34) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-2			0	0	N.D.	N.D.
Average	toxaphene-2					0.000	0.000

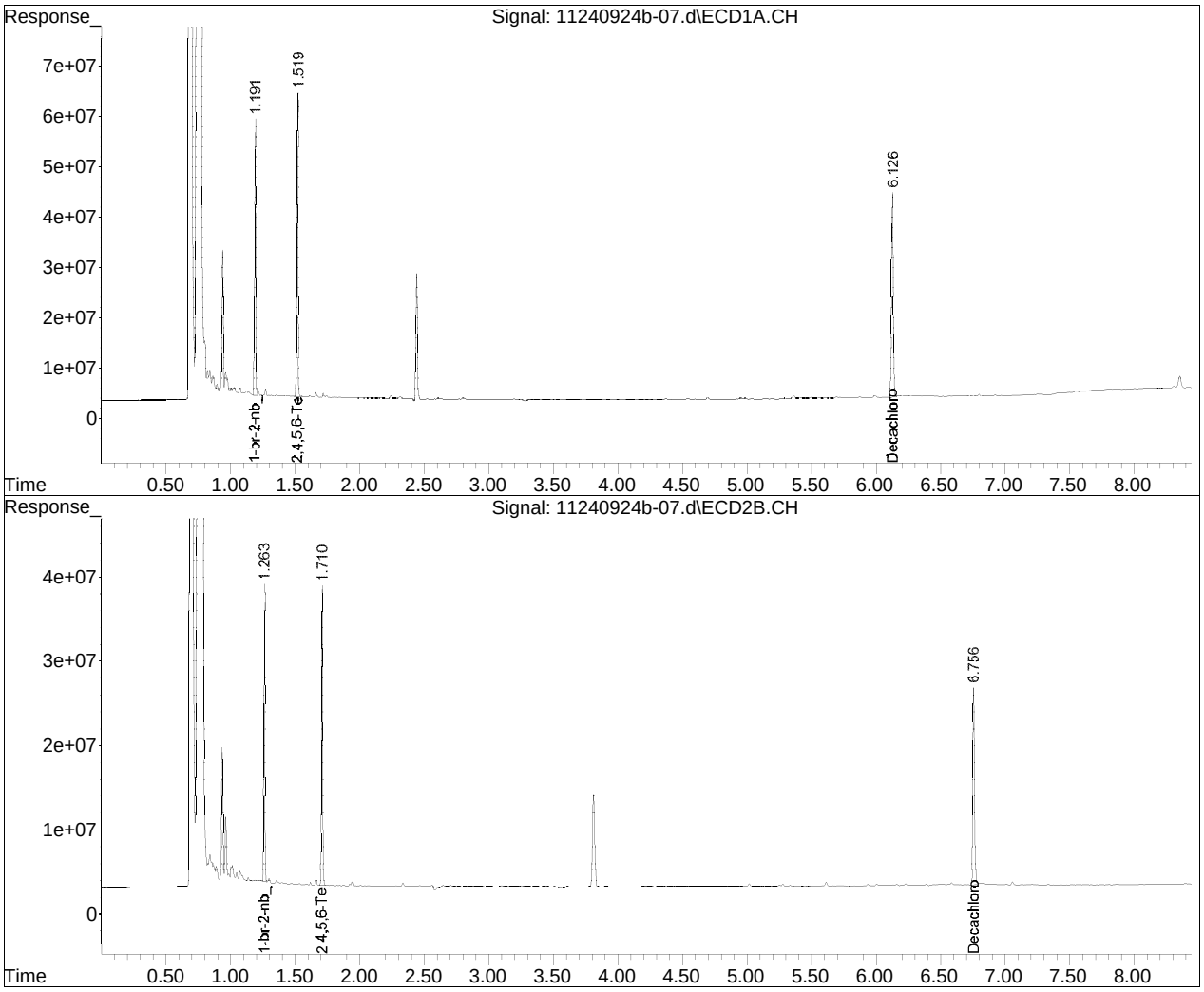
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:20
Operator : PEST11:jag
Sample : WG1975489-1,42,,
Misc : wg1975804,WG1975489,ical21365
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:30 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

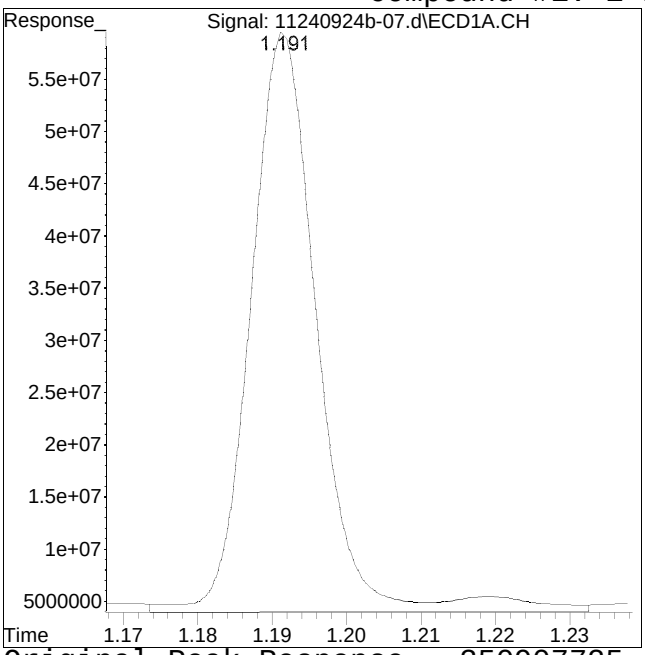
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

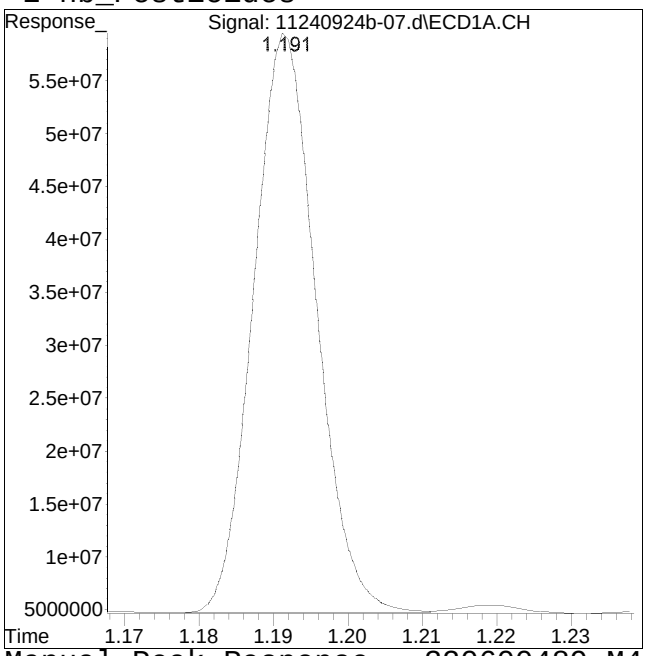


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-07.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:20 Instrument : Pest 11
Sample : WG1975489-1,42,, Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



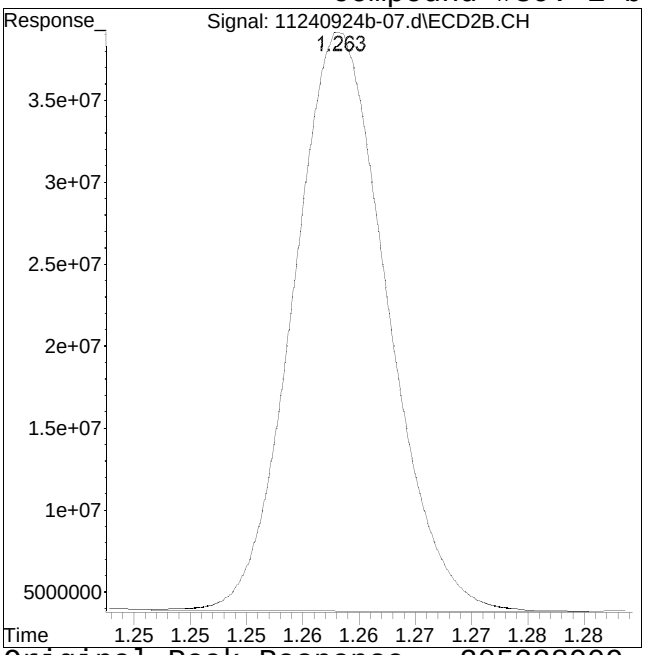


Original Peak Response = 350907725 Manual Peak Response = 320600489 M4
M4 = Poor automated baseline construction.

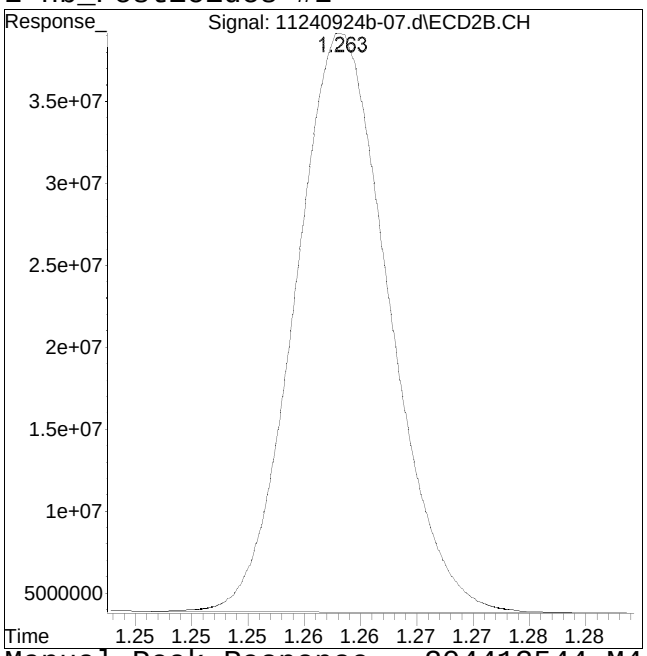
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-07.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:20 Instrument : Pest 11
Sample : WG1975489-1,42,, Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 205228909



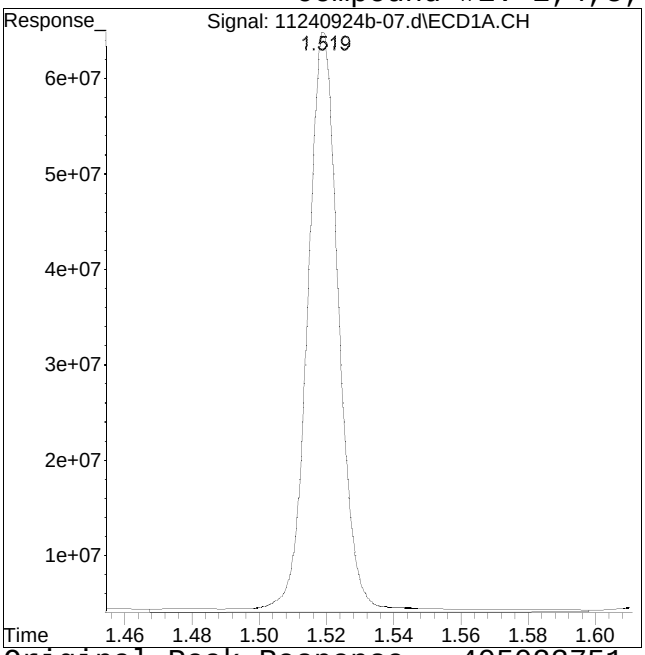
Manual Peak Response = 204413544 M4

M4 = Poor automated baseline construction.

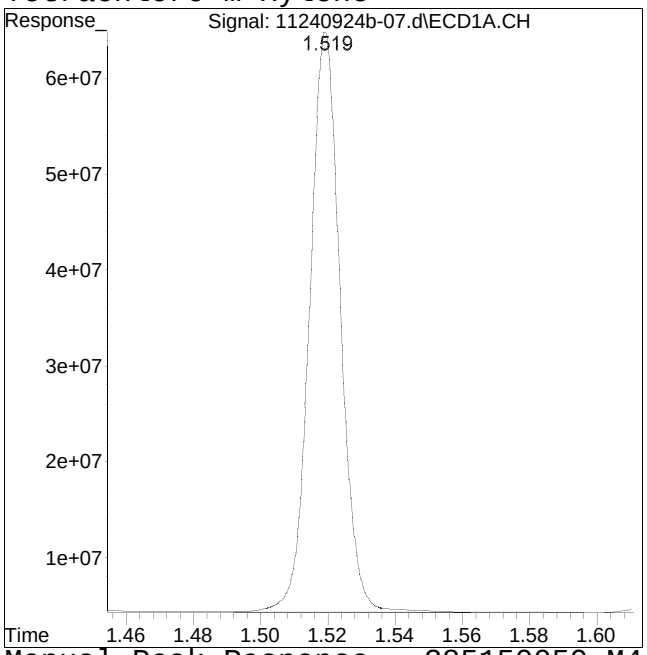
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-07.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:20 Instrument : Pest 11
Sample : WG1975489-1,42,, Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 405023751



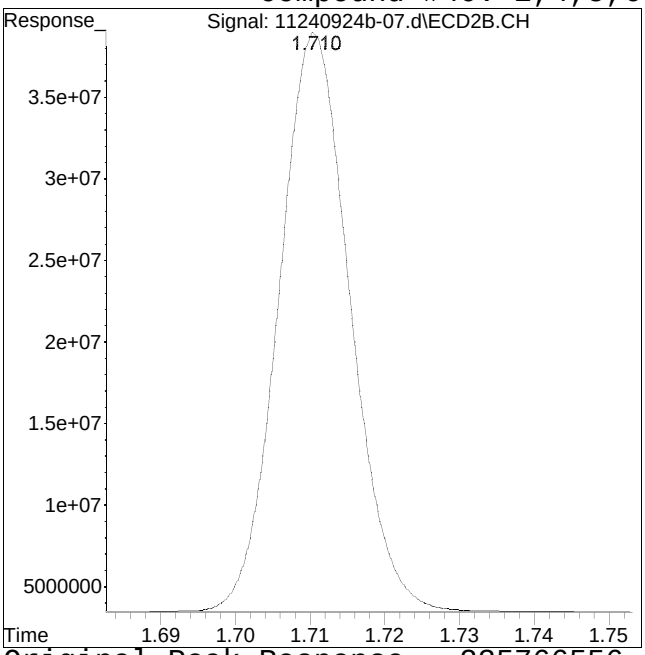
Manual Peak Response = 385150050 M4

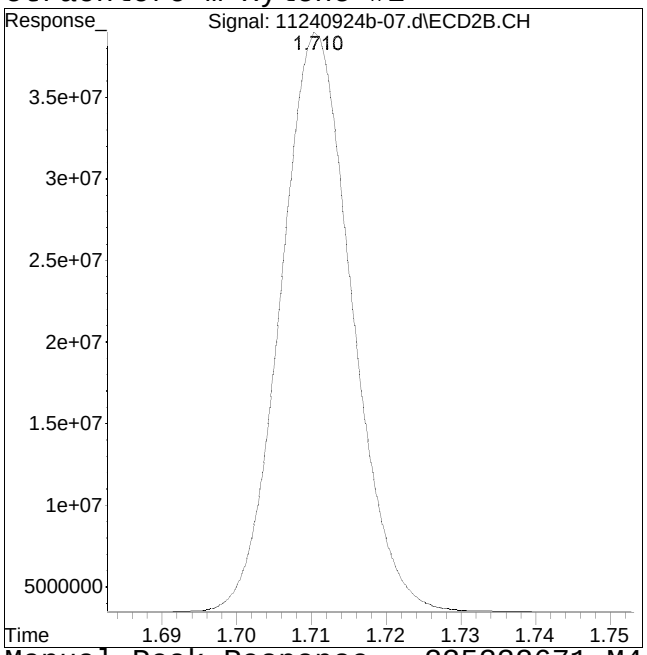
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-07.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:20 Instrument : Pest 11
Sample : WG1975489-1,42,, Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



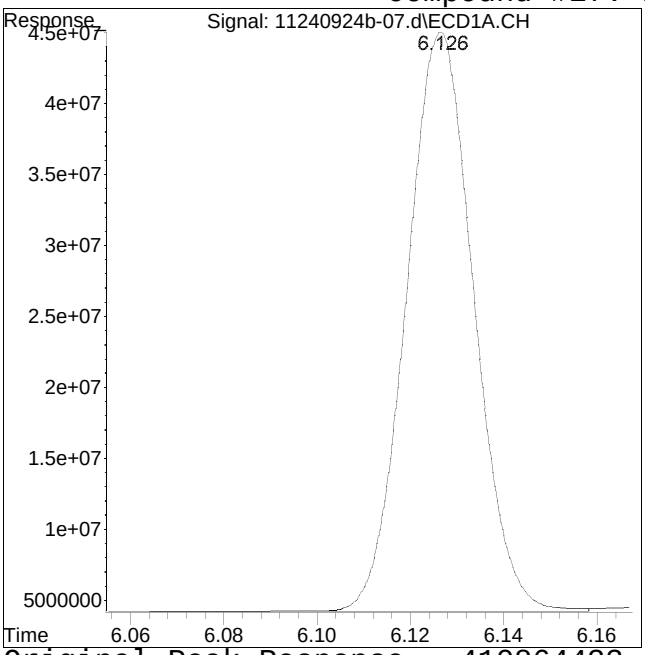


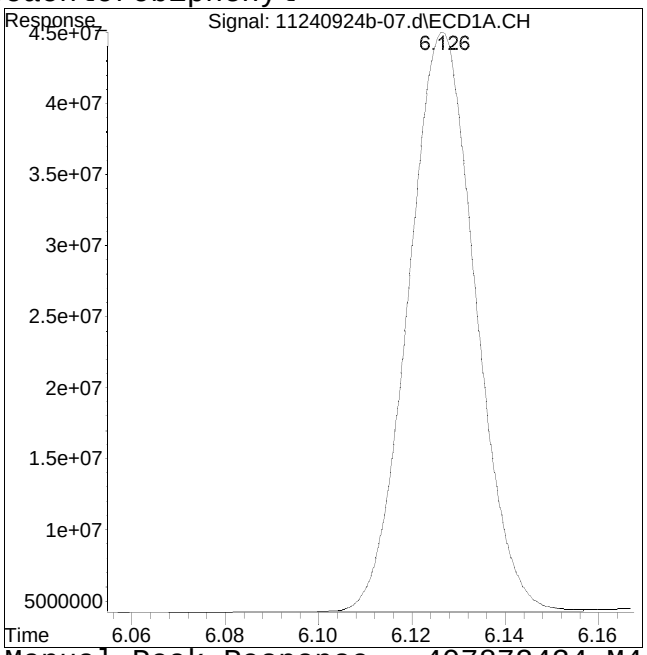
Original Peak Response = 235766556 Manual Peak Response = 235332671 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-07.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:20 Instrument : Pest 11
Sample : WG1975489-1,42,, Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



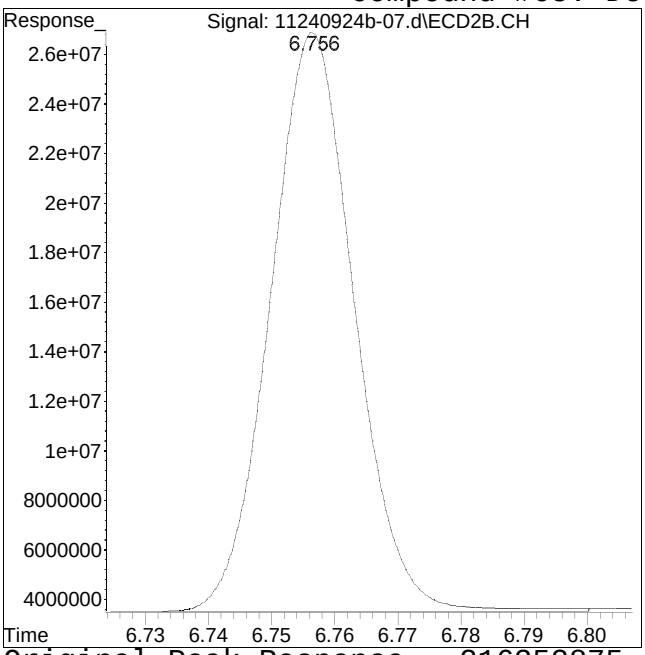


Original Peak Response = 410864433 Manual Peak Response = 407872434 M4
M4 = Poor automated baseline construction.

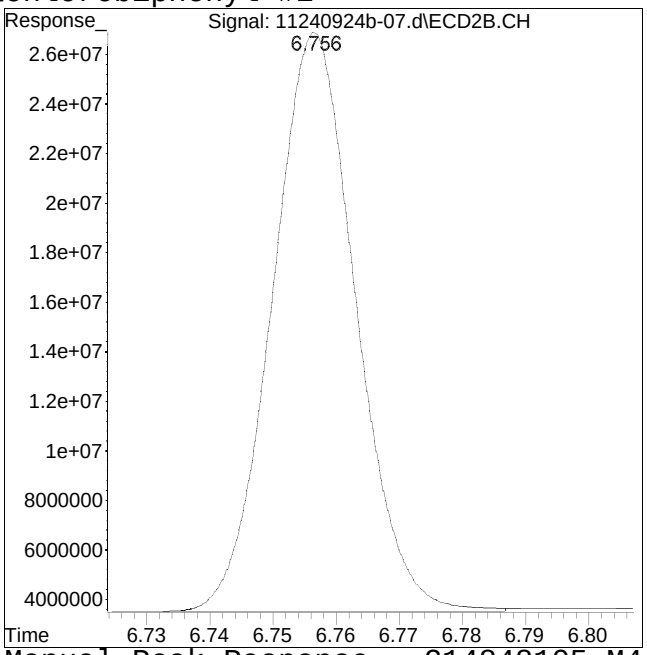
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-07.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:20 Instrument : Pest 11
Sample : WG1975489-1,42,, Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 216352875



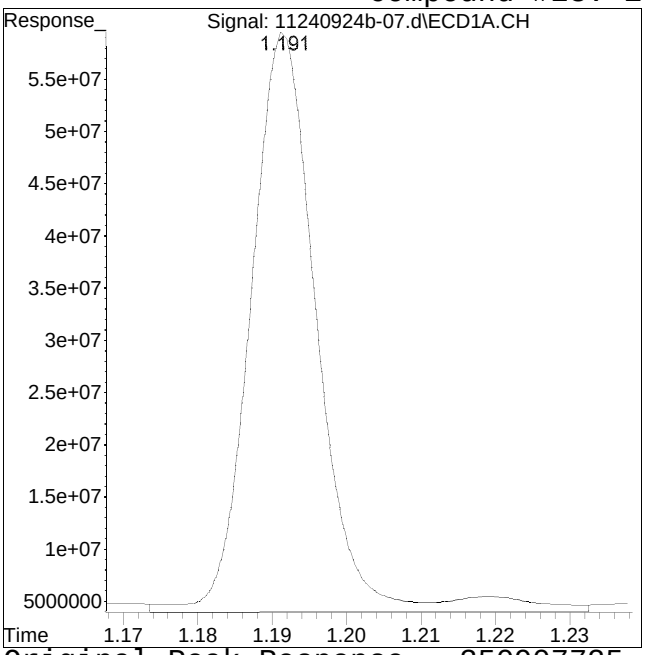
Manual Peak Response = 214848105 M4

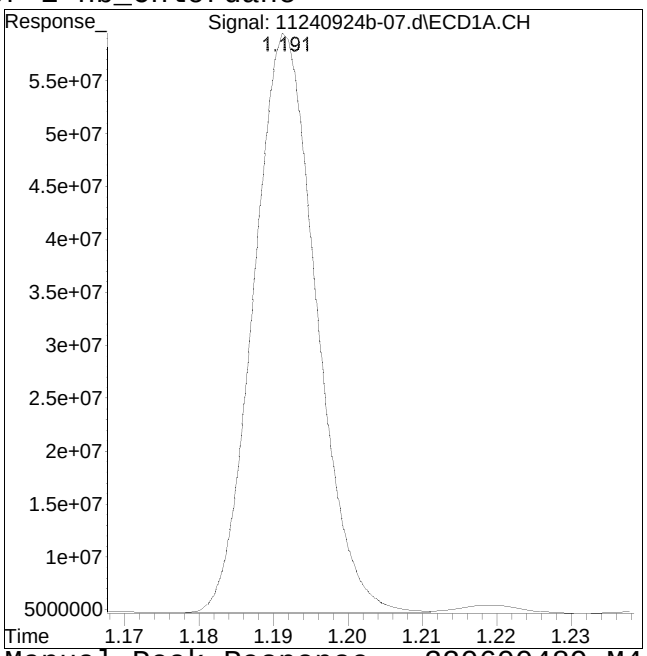
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-07.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:20 Instrument : Pest 11
Sample : WG1975489-1,42,, Quant Date : 9/25/2024 2:26 pm

Compound #28: 1-br-2-nb_Chlordane



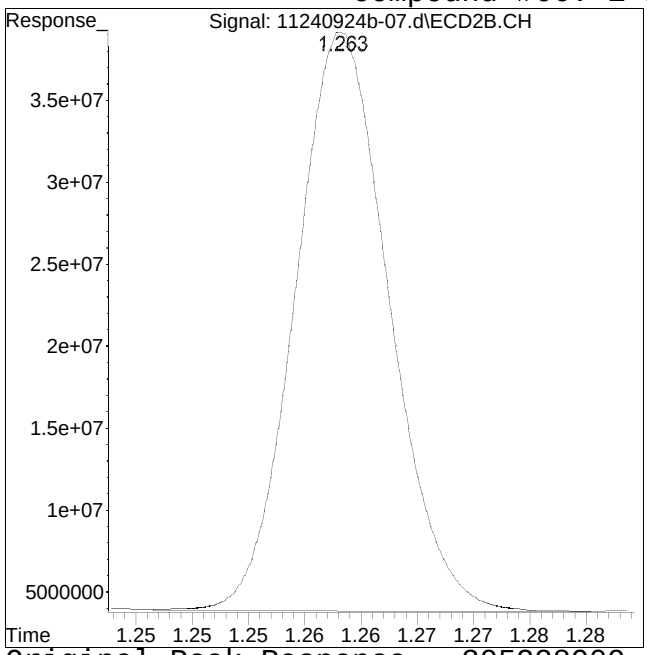


Original Peak Response = 350907725 Manual Peak Response = 320600489 M4
M4 = Poor automated baseline construction.

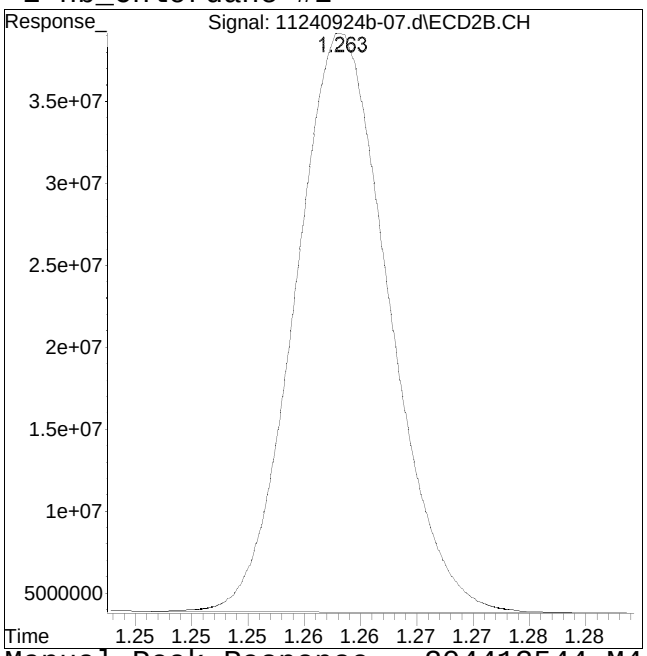
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-07.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:20 Instrument : Pest 11
Sample : WG1975489-1,42,, Quant Date : 9/25/2024 2:26 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 205228909



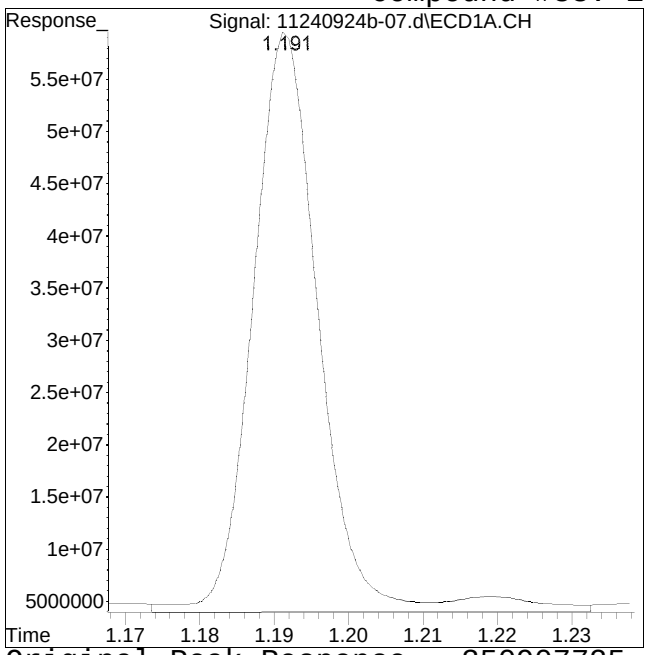
Manual Peak Response = 204413544 M4

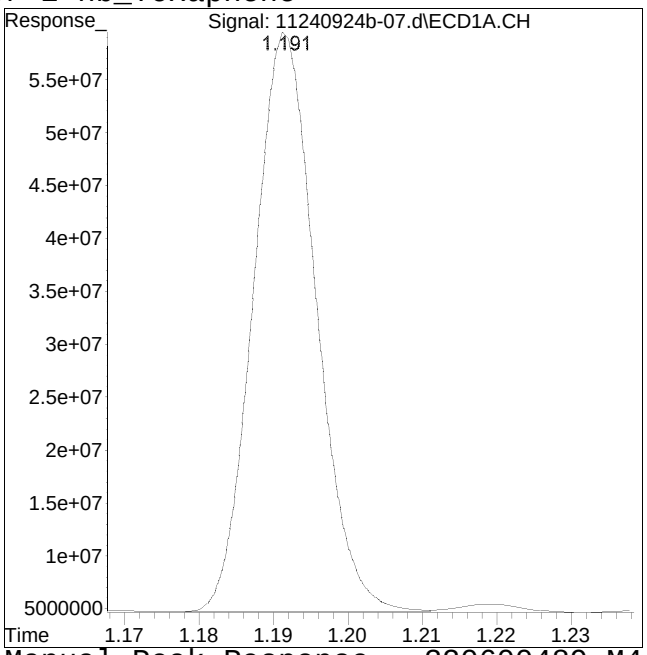
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-07.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:20 Instrument : Pest 11
Sample : WG1975489-1,42,, Quant Date : 9/25/2024 2:26 pm

Compound #33: 1-br-2-nb_Toxaphene



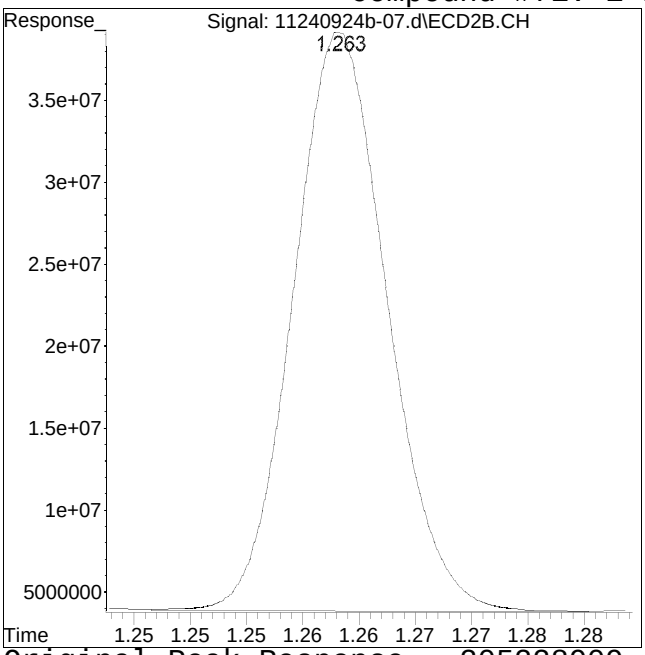


Original Peak Response = 350907725 Manual Peak Response = 320600489 M4
M4 = Poor automated baseline construction.

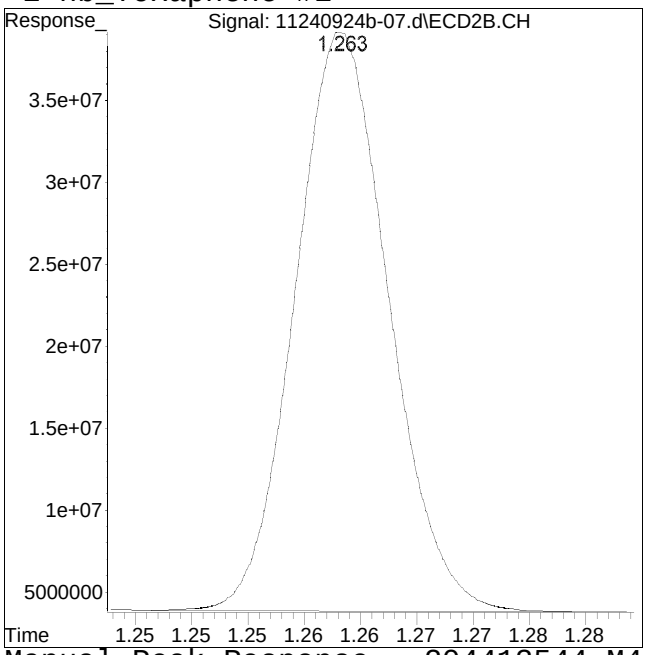
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-07.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:20 Instrument : Pest 11
Sample : WG1975489-1,42,, Quant Date : 9/25/2024 2:26 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 205228909



Manual Peak Response = 204413544 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:32
Operator : PEST11:jag
Sample : WG1975489-2,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:32 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.192	1.264	265.9E6	173.0E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery = 91.98%		
	Standard Area 1 : #2 = 192001596				Recovery = 90.12%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.519	1.710	355.2E6	222.0E6	32.139M3	28.798M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 64.28%		57.60%	
27) s	Decachlorobi	6.125	6.755	402.5E6	229.9E6	32.539M4	31.343M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 65.08%		62.69%	
Target Compounds							
4) t	alpha-BHC	1.813	2.100	614.2E6	374.6E6	39.536M4	33.422M4
5) t	gamma-BHC (l	2.004	2.369	564.6E6	340.6E6	38.042M4	31.972M4
6) t	beta-BHC	2.058	2.434	245.0E6	150.6E6	36.683M4	34.286M4
7) t	delta-BHC	2.179	2.686	482.0E6	281.4E6	32.983M4	26.696M4
8) t	Heptachlor	2.333	2.743	572.2E6	327.1E6	40.722M4	29.579M4
9) t	Aldrin	2.563	3.046	508.4E6	302.5E6	38.762M4	30.458M4
12) t	Heptachlor E	3.083	3.636	500.9E6	291.6E6	39.725M4	29.561M4
13) t	gamma-Chlord	3.203	3.850	511.4E6	294.0E6	44.647M4	32.389M4
14) t	alpha-Chlord	3.332	4.017	485.5E6	295.2E6	37.527M4	29.494M4
15) t	4,4'-DDE	3.430	4.235	489.6E6	286.3E6	38.630M4	30.809M4
16) t	Endosulfan I	3.461	4.079	469.1E6	277.3E6	39.511M4	30.084M4
17) t	Dieldrin	3.711	4.395	531.8E6	312.4E6	44.046M4	34.006M4
18) t	Endrin	3.957	4.709	503.2E6	295.3E6	41.036M4	31.681
19) t	4,4'-DDD	4.079	4.849	420.1E6	248.4E6	42.590M3	33.119M4
20) t	Endosulfan I	4.211	4.920	429.2E6	250.8E6	38.357M4	29.861M4
21) t	4,4'-DDT	4.395	5.137	460.9E6	267.5E6	40.935M4	30.914M4

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:32
Operator : PEST11:jag
Sample : WG1975489-2,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:32 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.656	5.229	272.1E6	162.6E6	28.862M4	24.974M4
23) t Methoxychlor	4.916	5.722	263.2E6	147.6E6	41.807M4	30.275M4
25) t Endosulfan S	5.063	5.465	401.9E6	230.6E6	37.425M4	27.785M4
26) t Endrin Keton	5.296	5.882	496.9E6	290.0E6	39.484M4	33.240M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

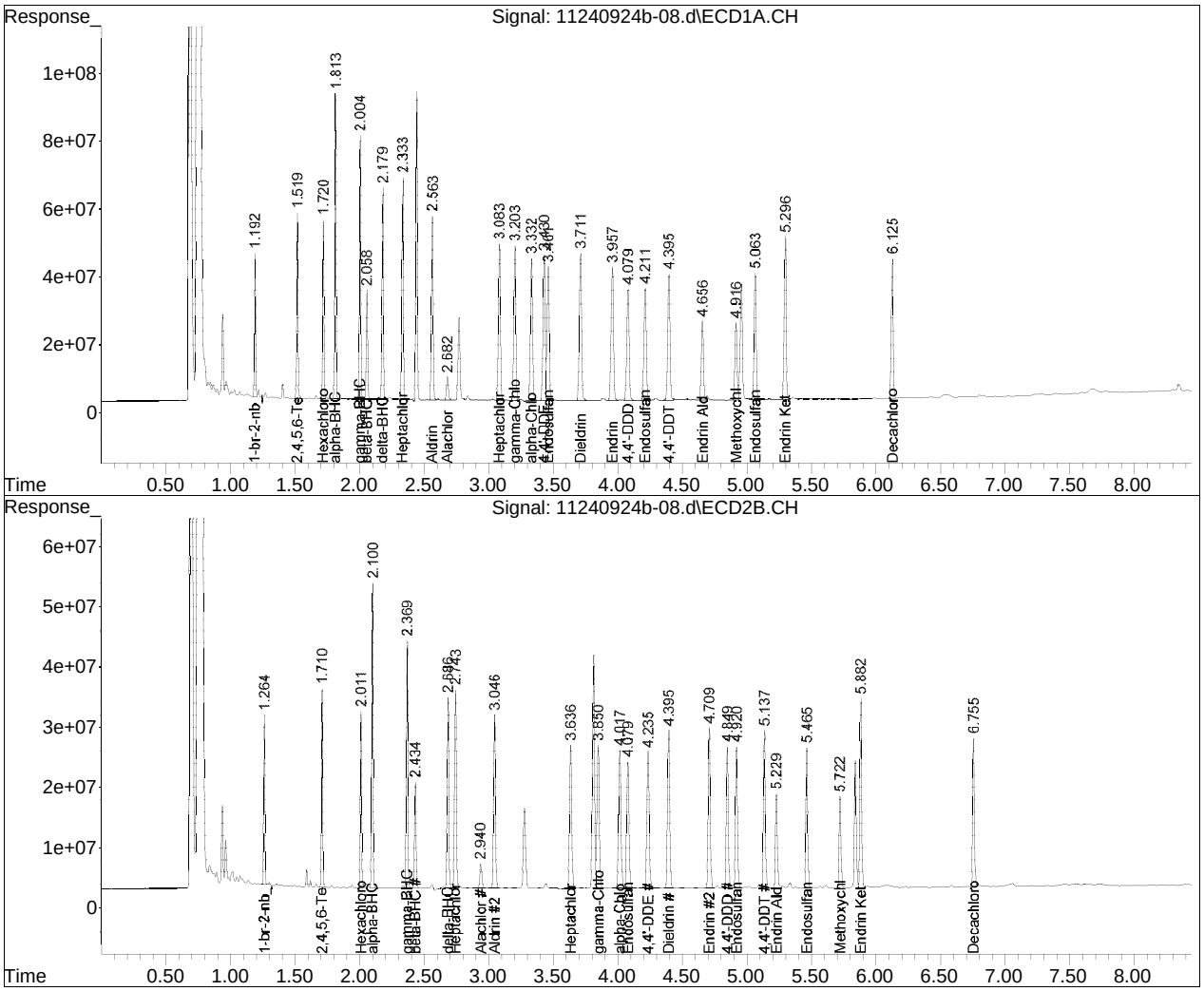
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240924B\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:32
Operator : PEST11:jag
Sample : WG1975489-2,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:32 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

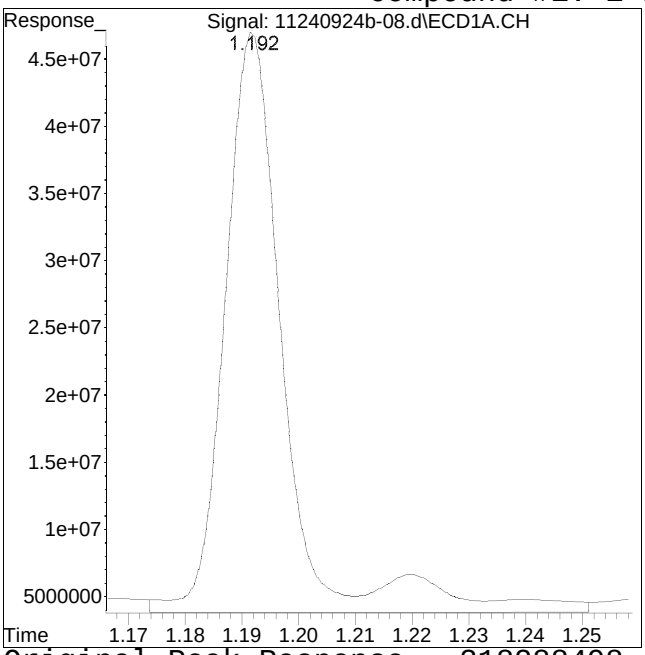
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

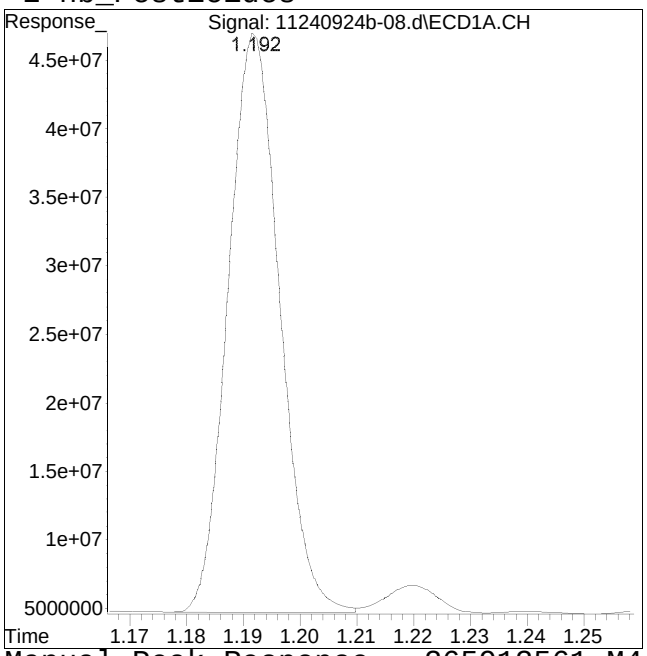


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



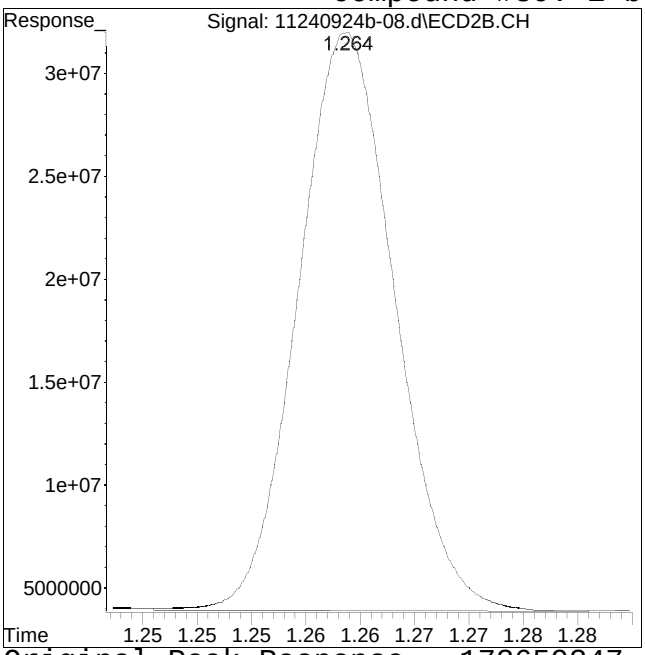


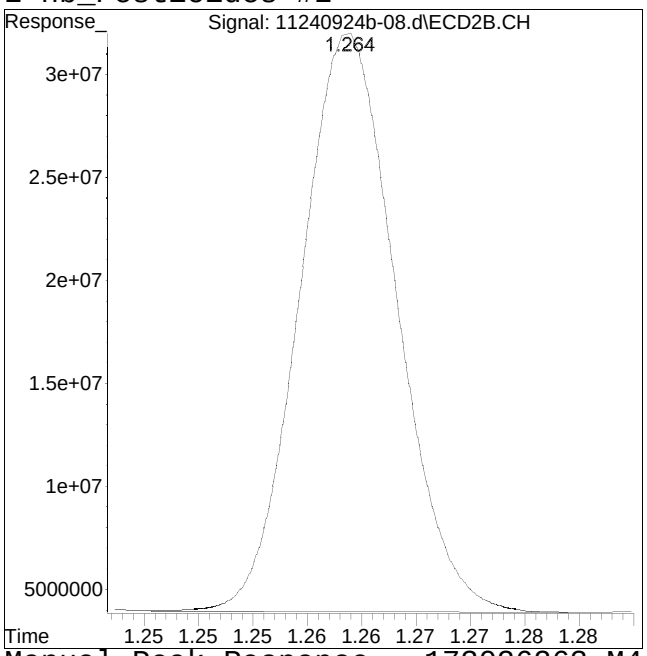
Original Peak Response = 318288498 Manual Peak Response = 265913561 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



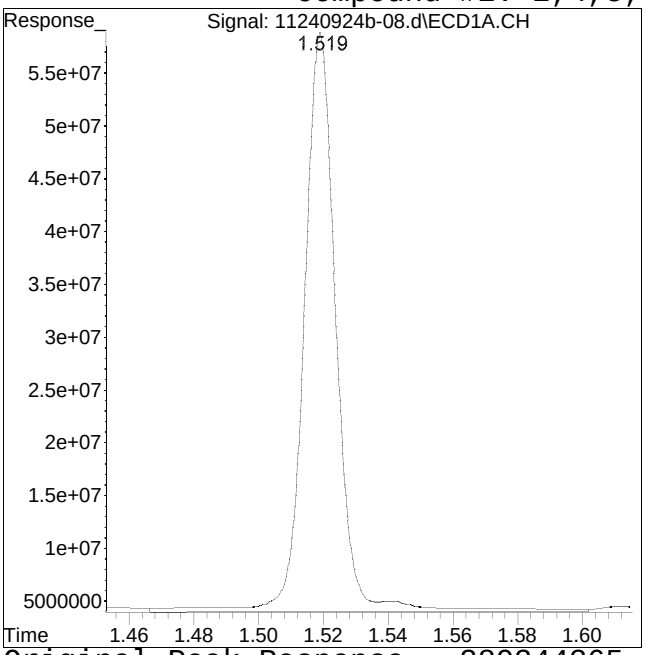


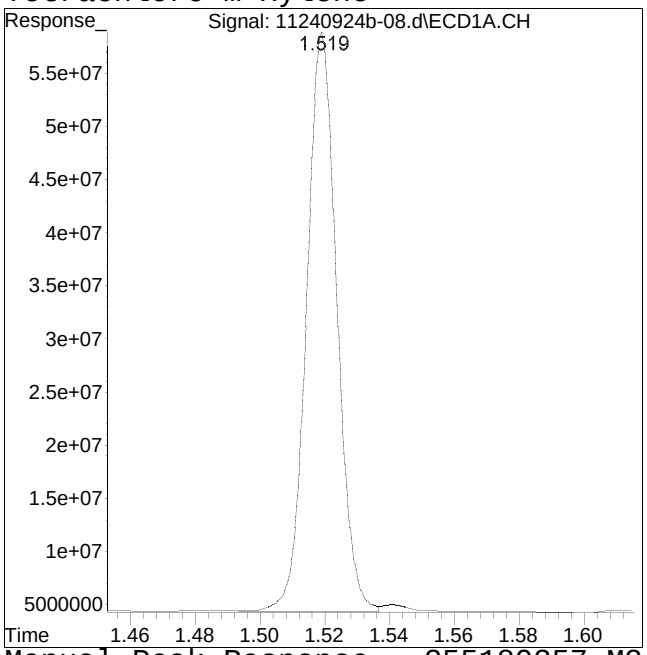
Original Peak Response = 173659347 Manual Peak Response = 173026263 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



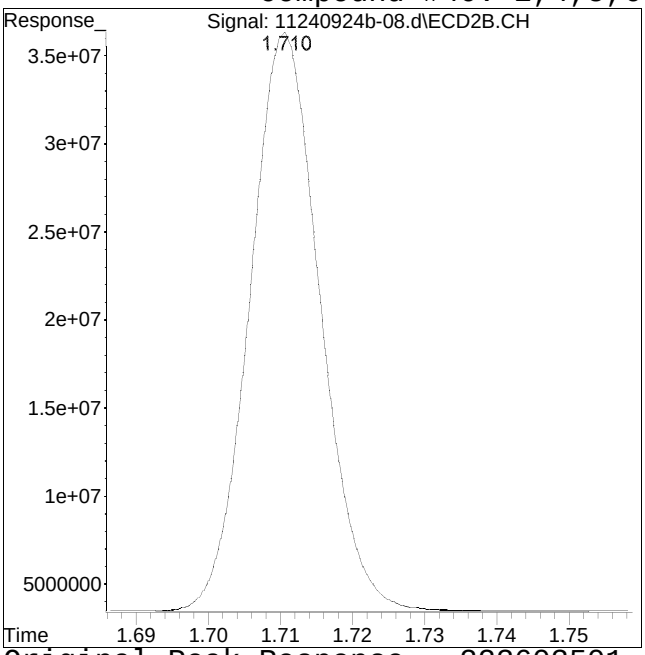


Original Peak Response = 389344365 Manual Peak Response = 355189357 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

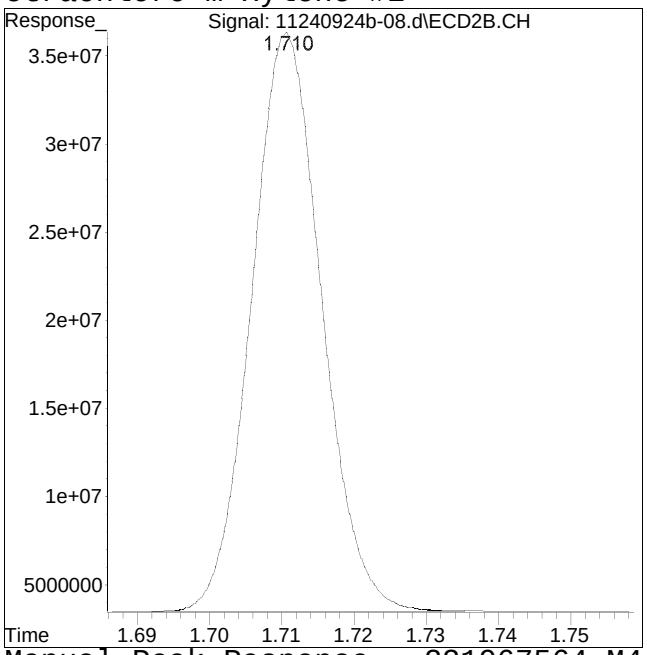
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 223603501



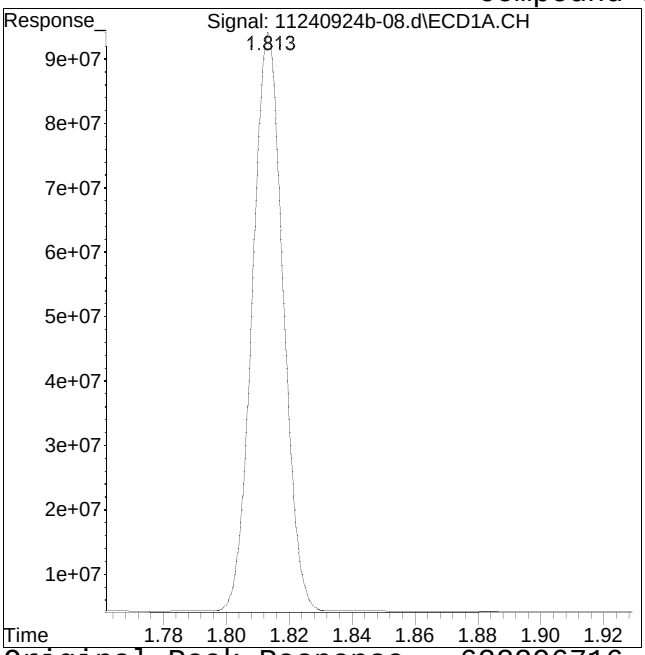
Manual Peak Response = 221967564 M4

M4 = Poor automated baseline construction.

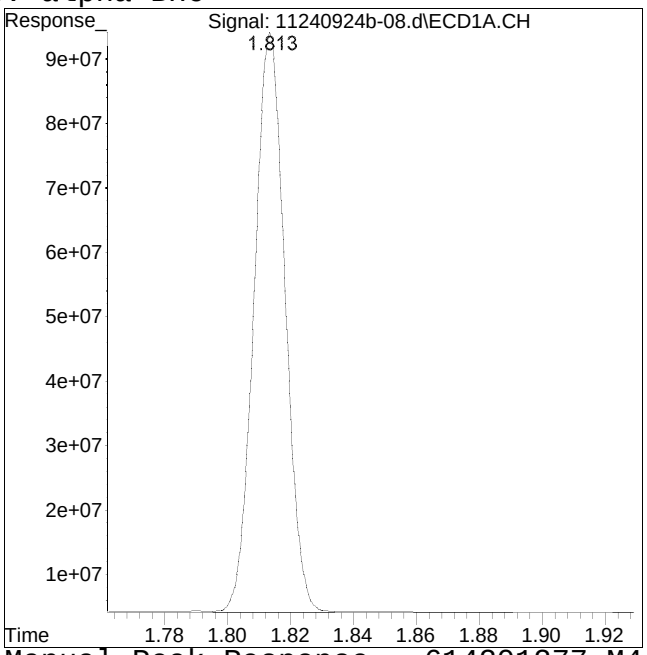
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #4: alpha-BHC



Original Peak Response = 622296716

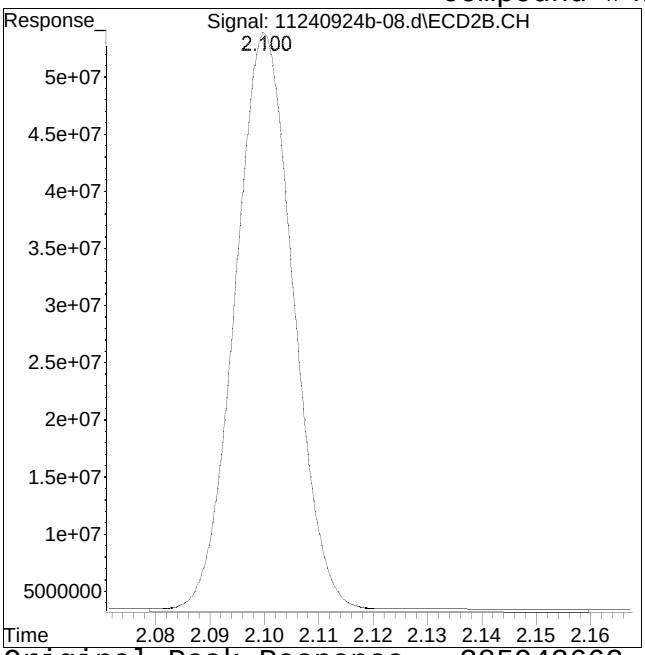


Manual Peak Response = 614201277 M4
M4 = Poor automated baseline construction.

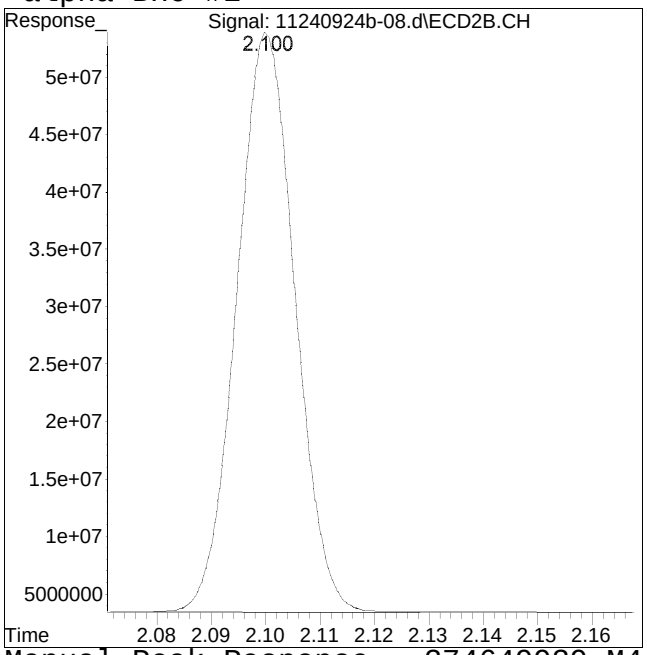
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #42: alpha-BHC #2



Original Peak Response = 385942662



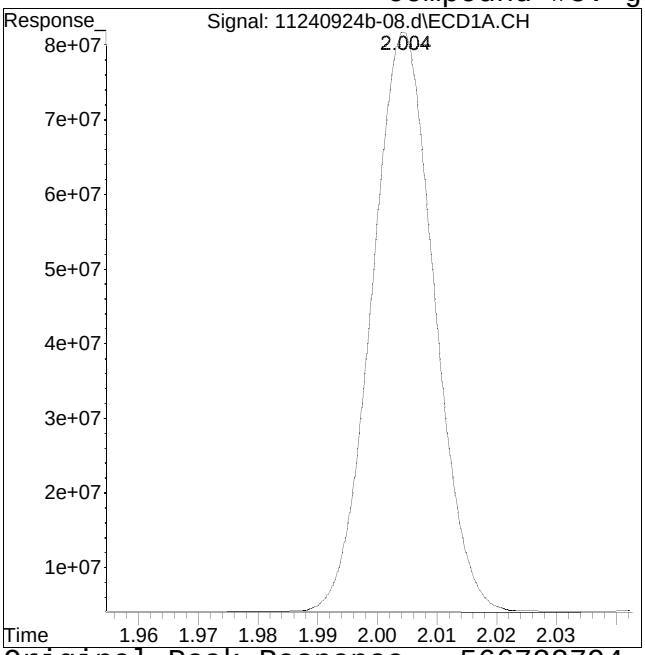
Manual Peak Response = 374649939 M4

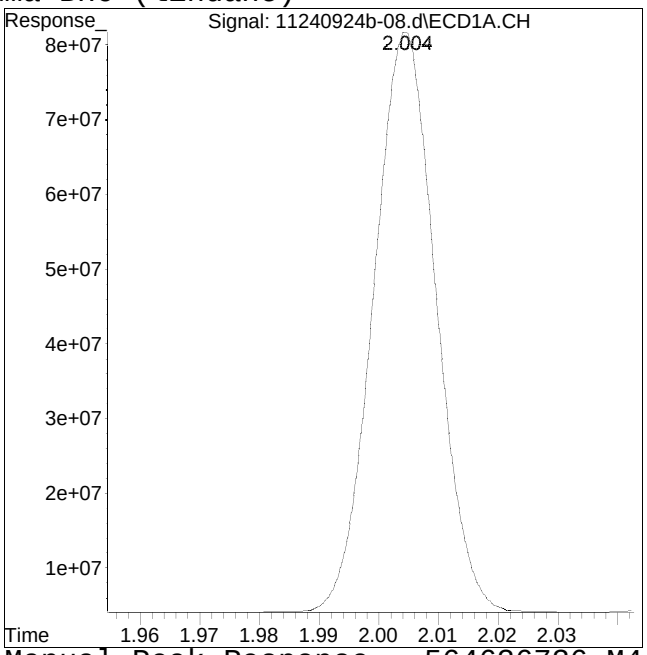
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #5: gamma-BHC (lindane)



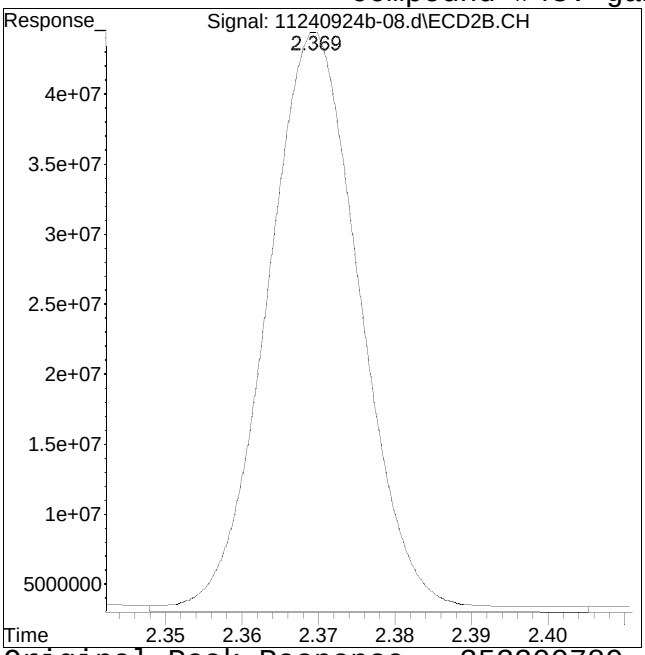


Original Peak Response = 566722794 Manual Peak Response = 564636736 M4
M4 = Poor automated baseline construction.

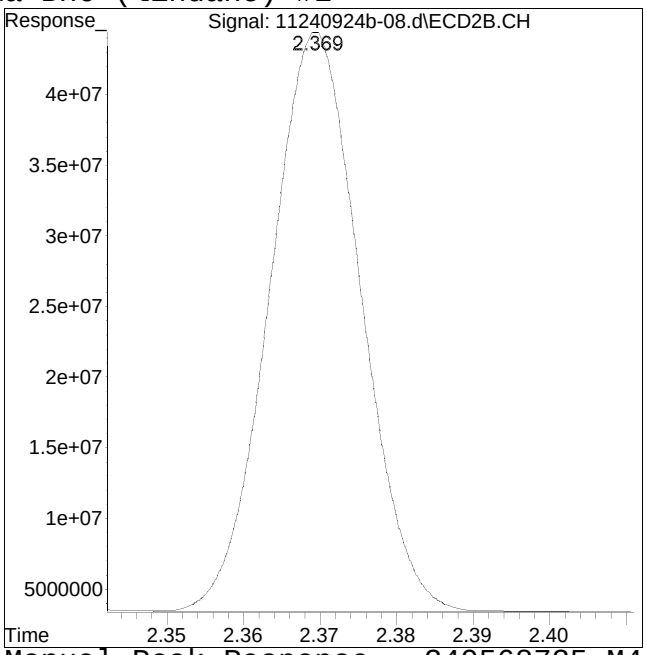
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 353300789



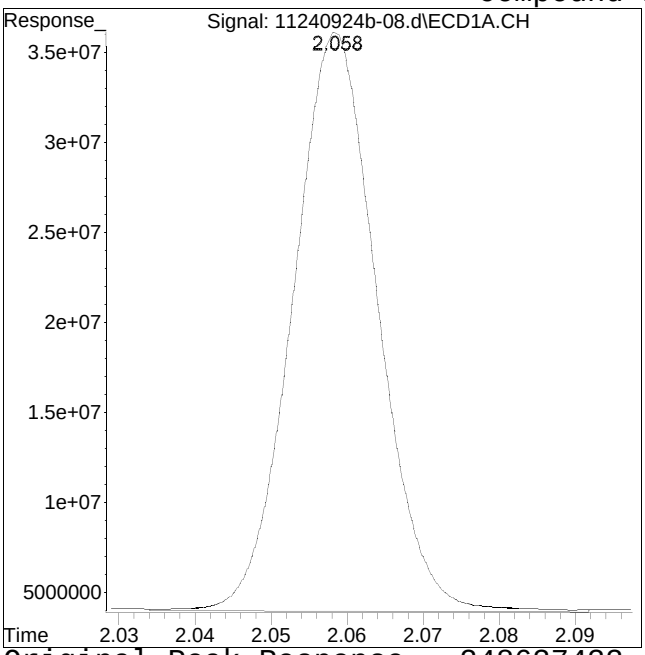
Manual Peak Response = 340568735 M4

M4 = Poor automated baseline construction.

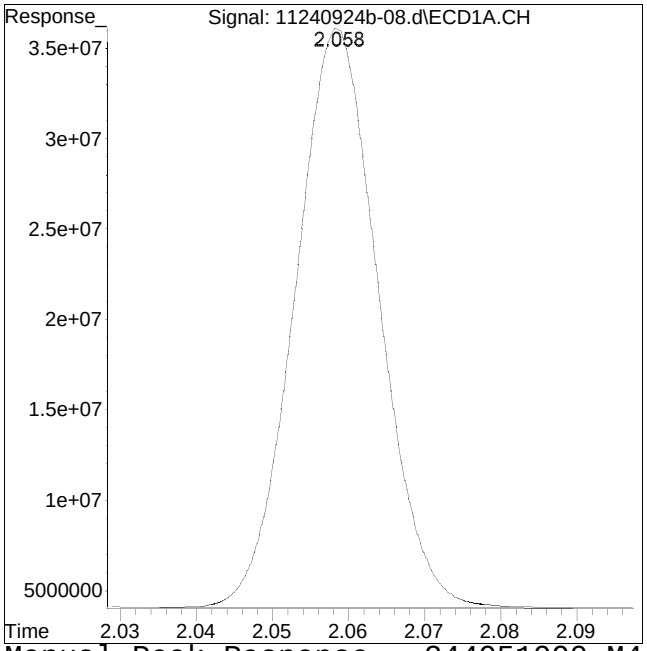
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #6: beta-BHC



Original Peak Response = 248637433



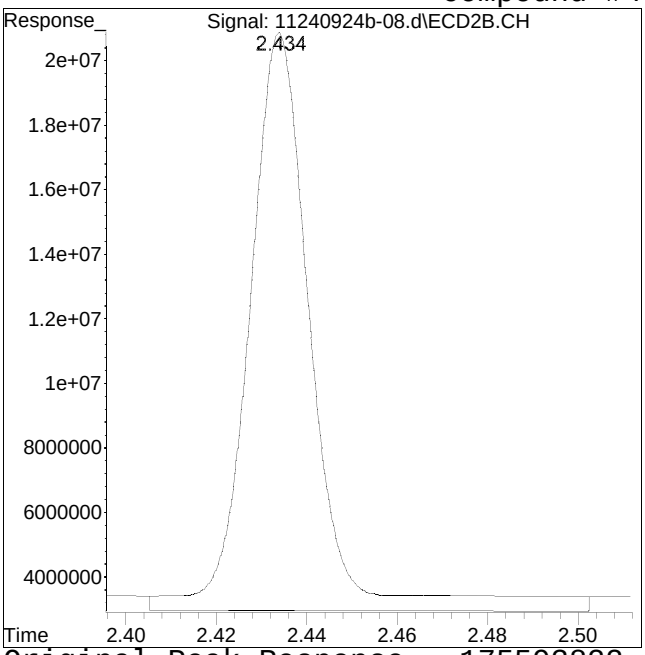
Manual Peak Response = 244951990 M4

M4 = Poor automated baseline construction.

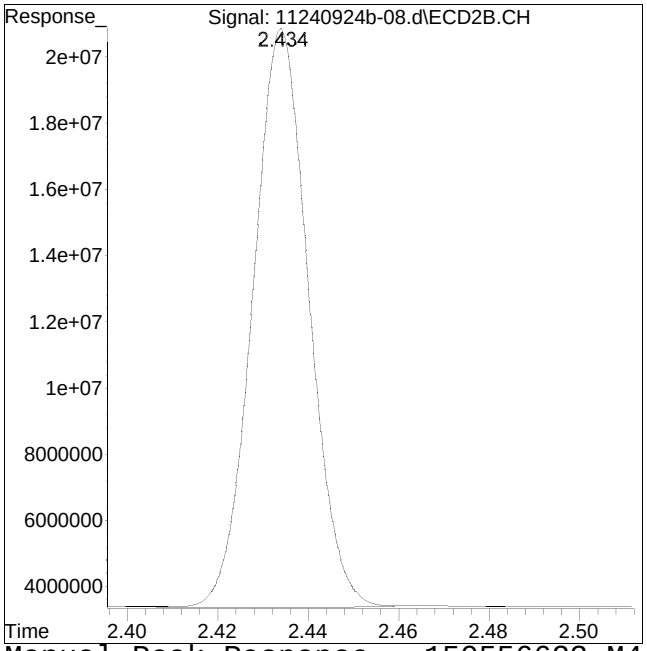
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #44: beta-BHC #2



Original Peak Response = 175593822



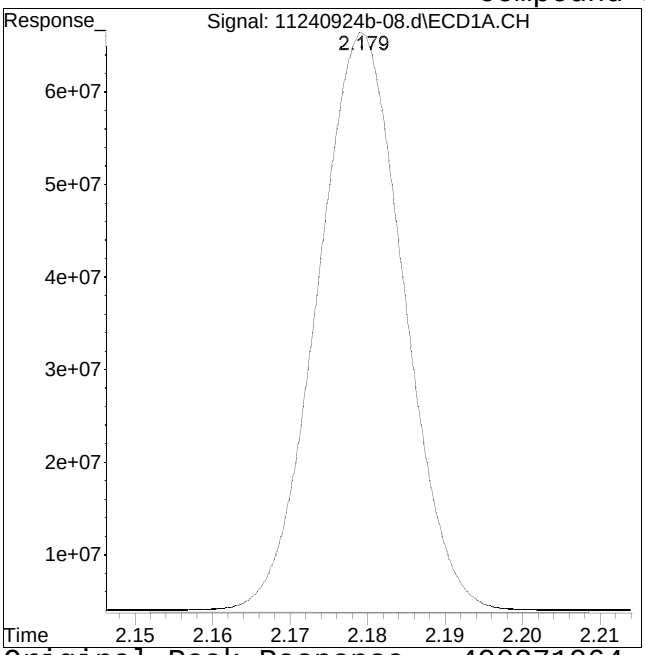
Manual Peak Response = 150556623 M4

M4 = Poor automated baseline construction.

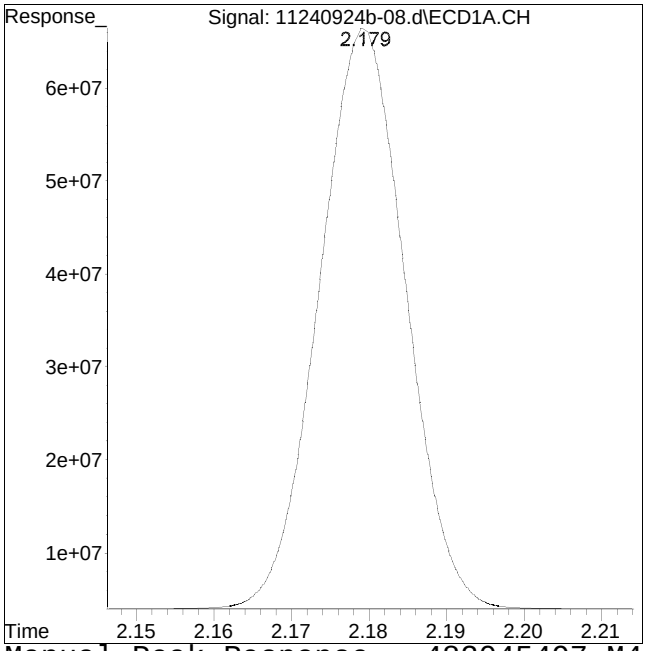
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #7: delta-BHC



Original Peak Response = 490271964



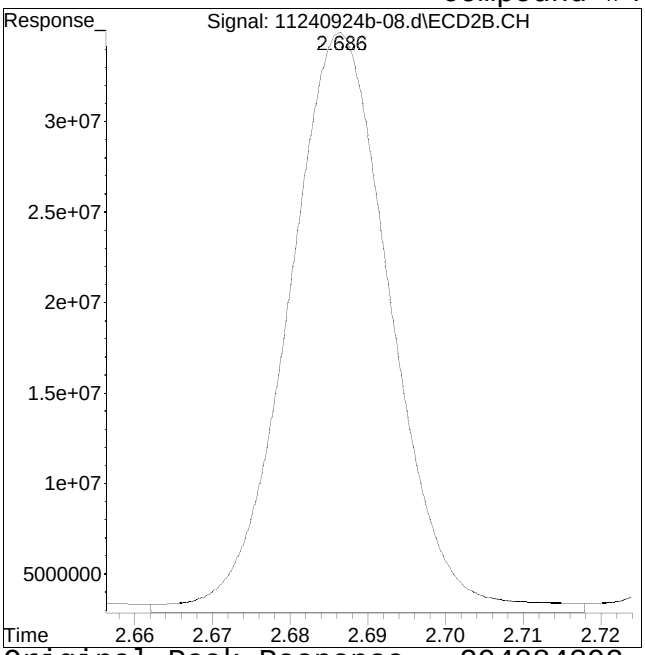
Manual Peak Response = 482045497 M4

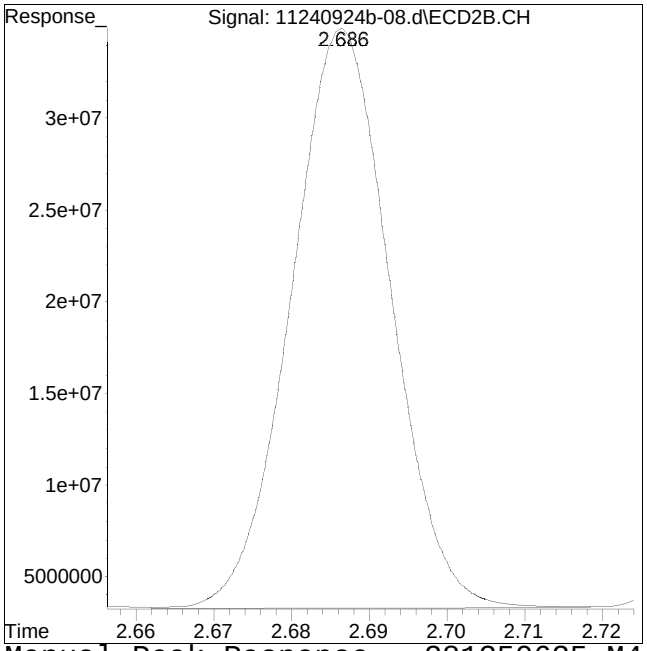
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #45: delta-BHC #2



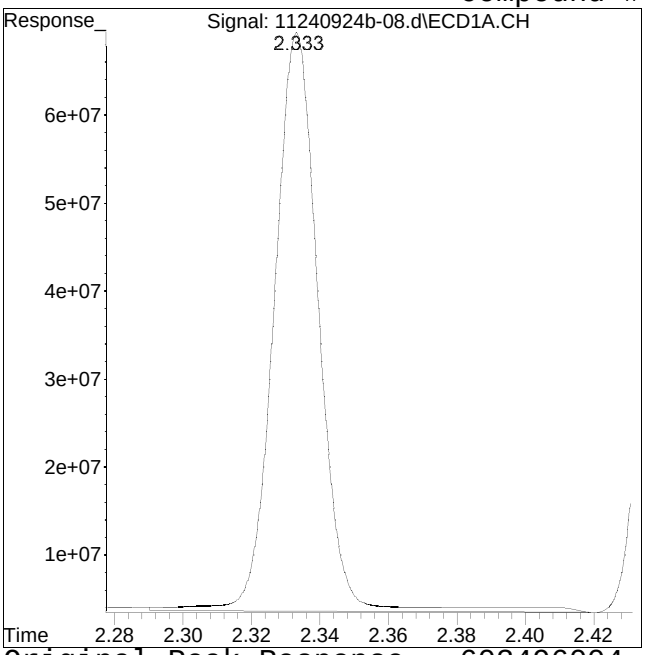


Original Peak Response = 294884392 Manual Peak Response = 281350635 M4
M4 = Poor automated baseline construction.

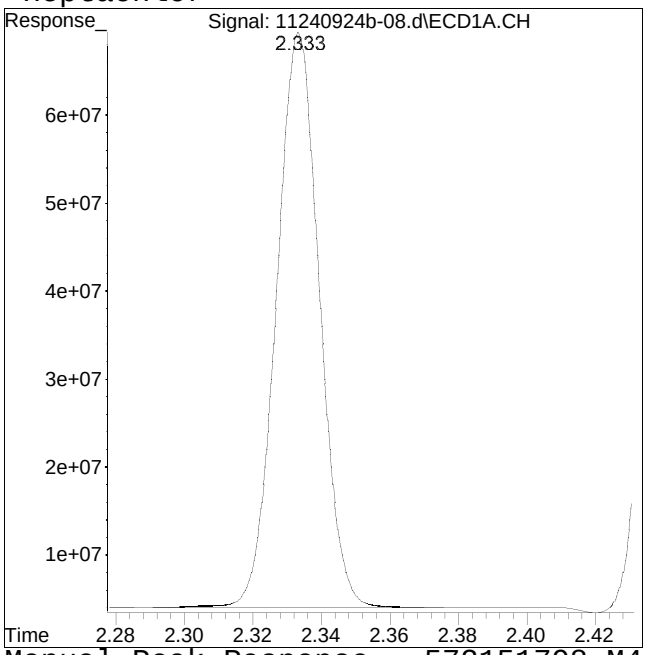
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #8: Heptachlor



Original Peak Response = 603496004



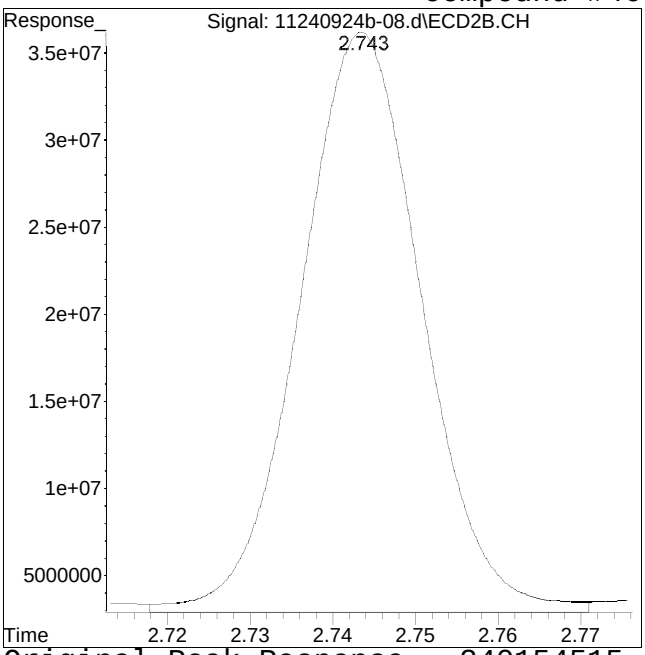
Manual Peak Response = 572151798 M4

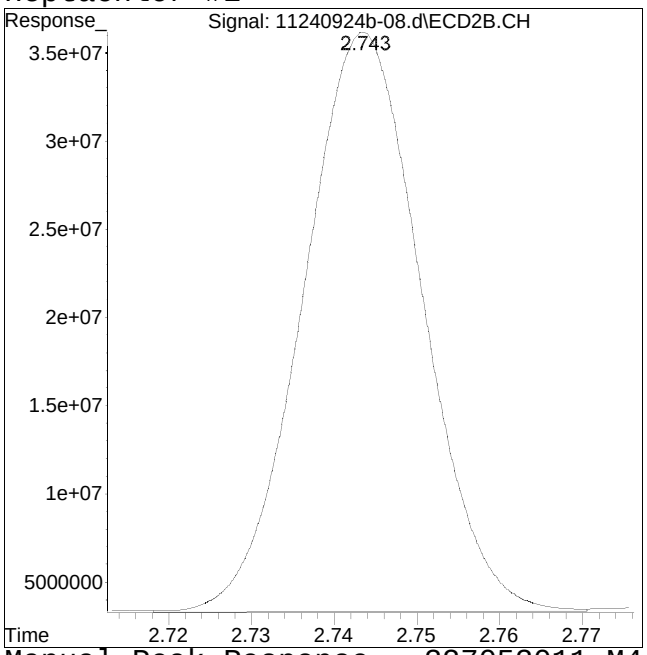
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #46: Heptachlor #2



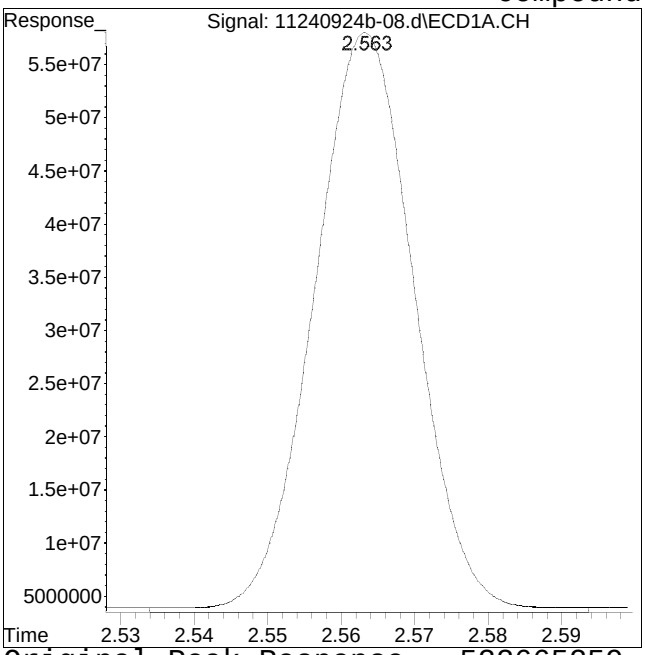


Original Peak Response = 340154515 Manual Peak Response = 327053011 M4
M4 = Poor automated baseline construction.

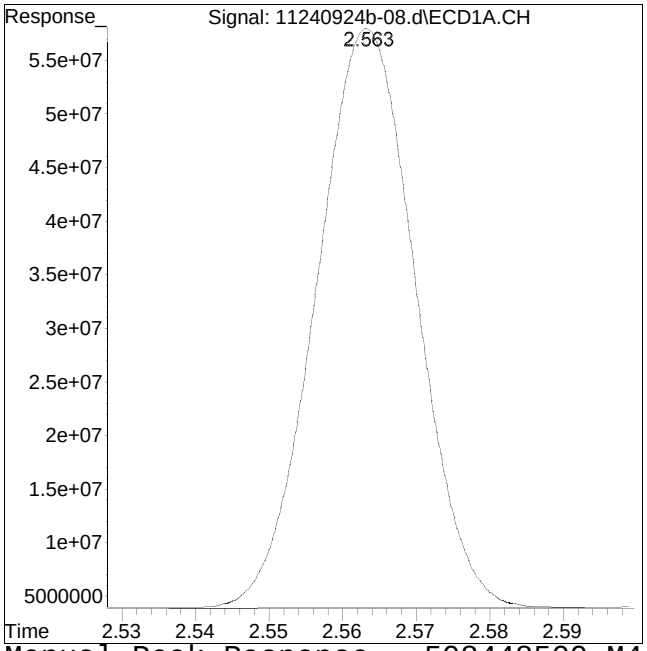
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #9: Aldrin



Original Peak Response = 522665259



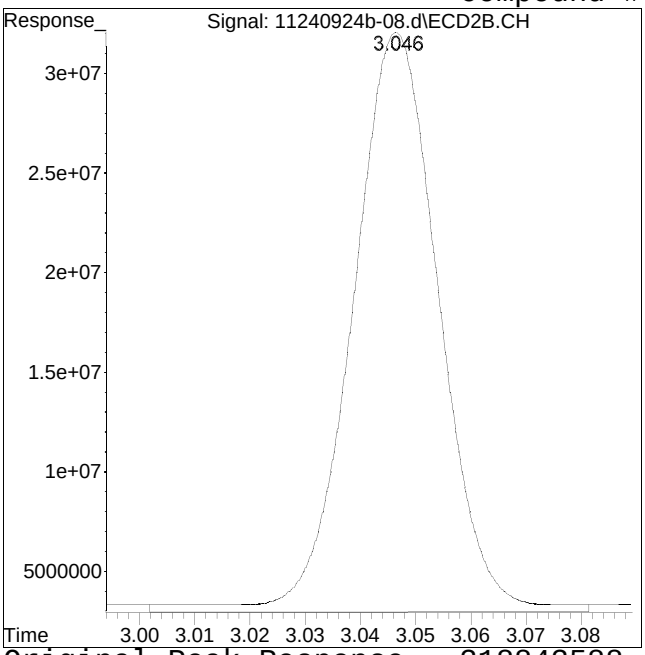
Manual Peak Response = 508448500 M4

M4 = Poor automated baseline construction.

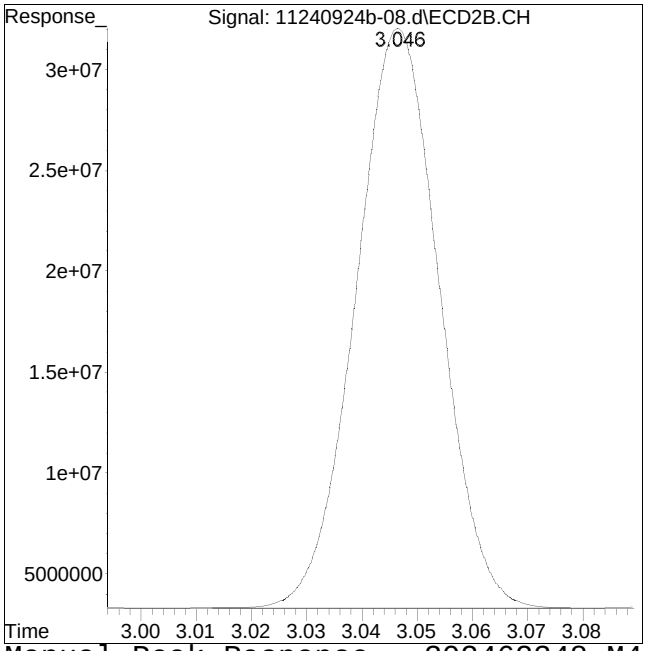
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #47: Aldrin #2



Original Peak Response = 318843588



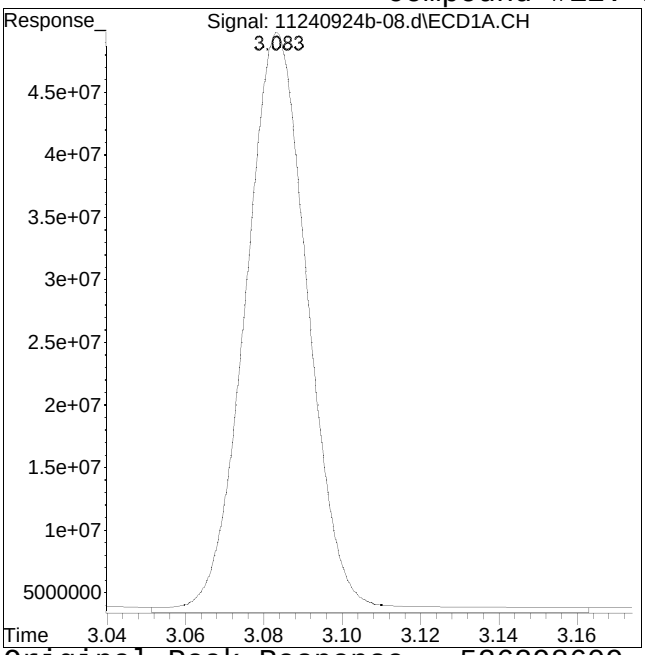
Manual Peak Response = 302462348 M4

M4 = Poor automated baseline construction.

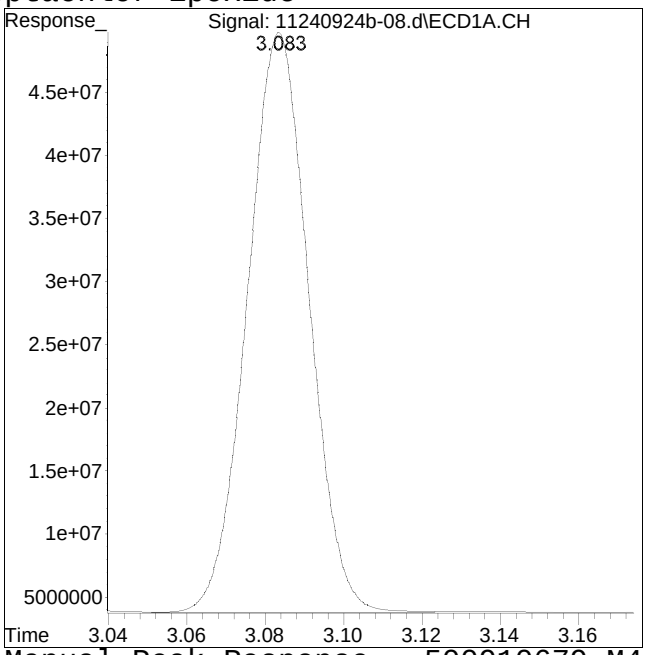
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #12: Heptachlor Epoxide



Original Peak Response = 526298609



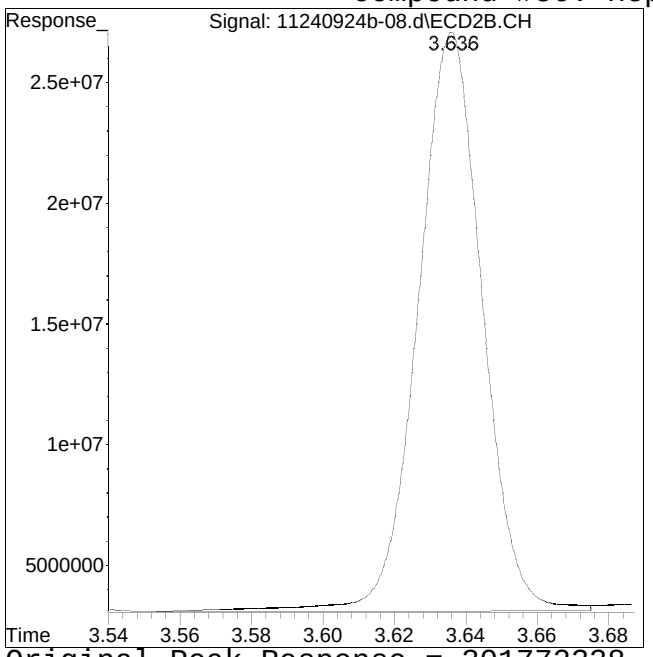
Manual Peak Response = 500910679 M4

M4 = Poor automated baseline construction.

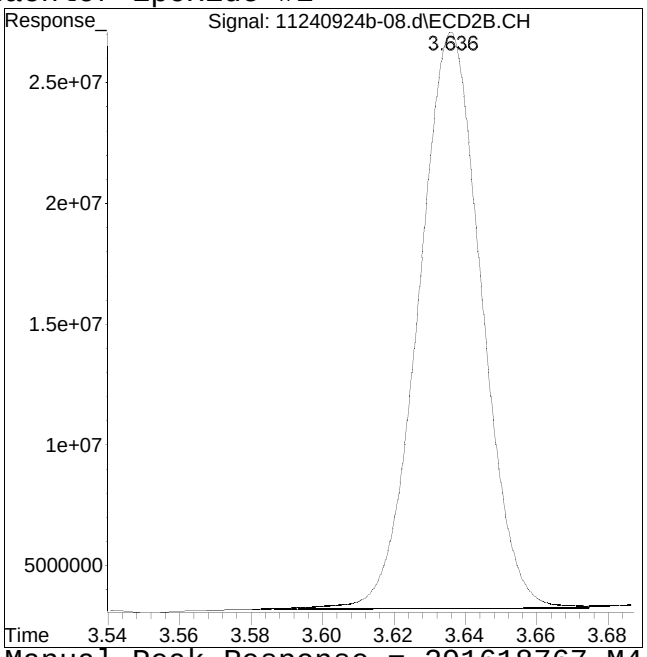
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 301772338



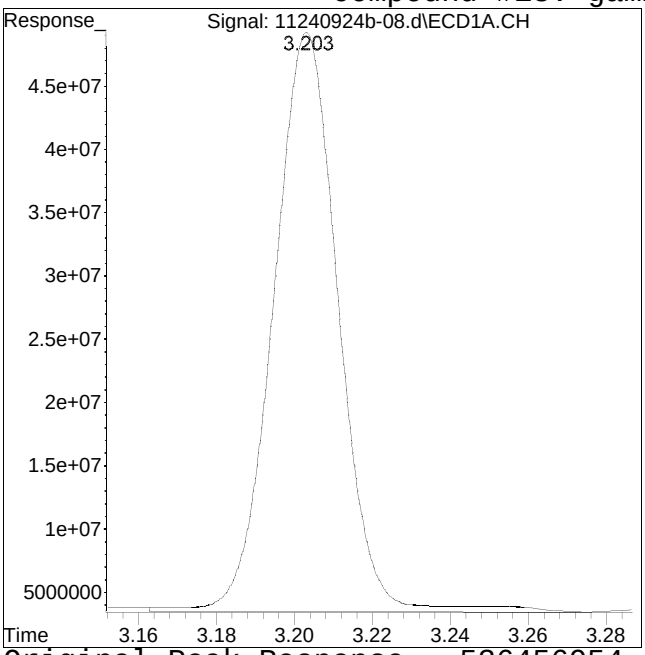
Manual Peak Response = 291618767 M4

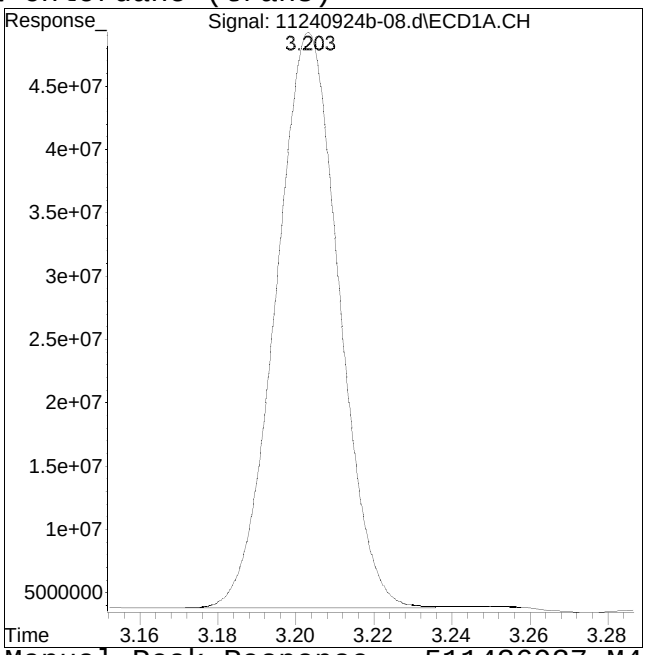
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #13: gamma-Chlordane (trans)



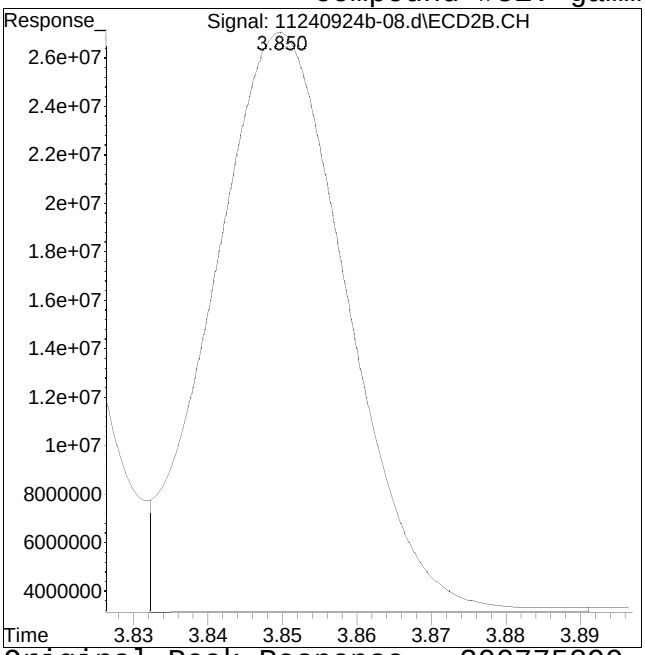


Original Peak Response = 536456954 Manual Peak Response = 511436937 M4
M4 = Poor automated baseline construction.

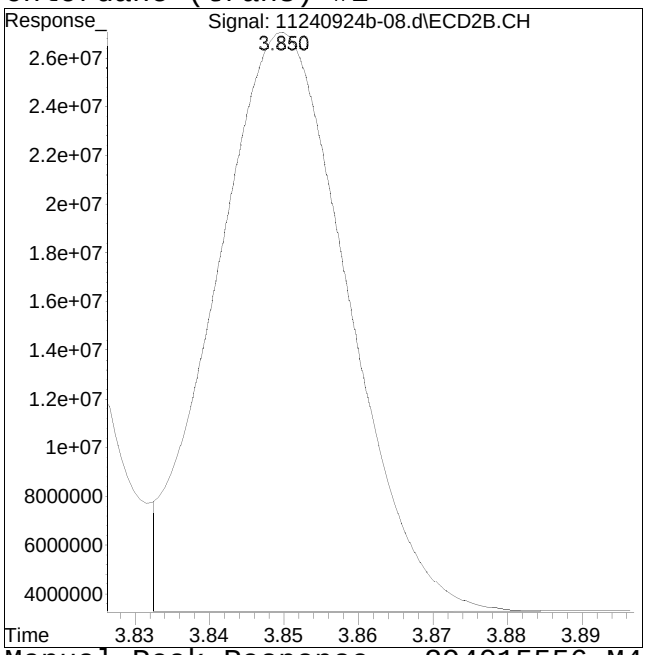
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 300775299



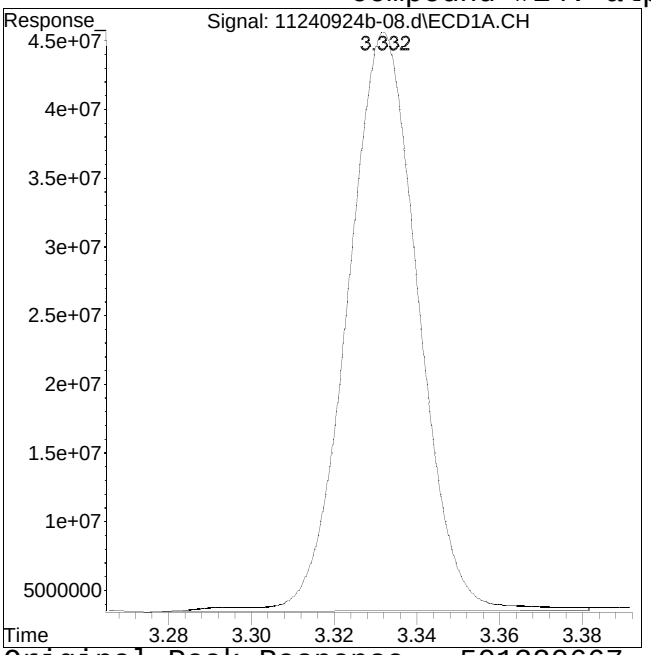
Manual Peak Response = 294015556 M4

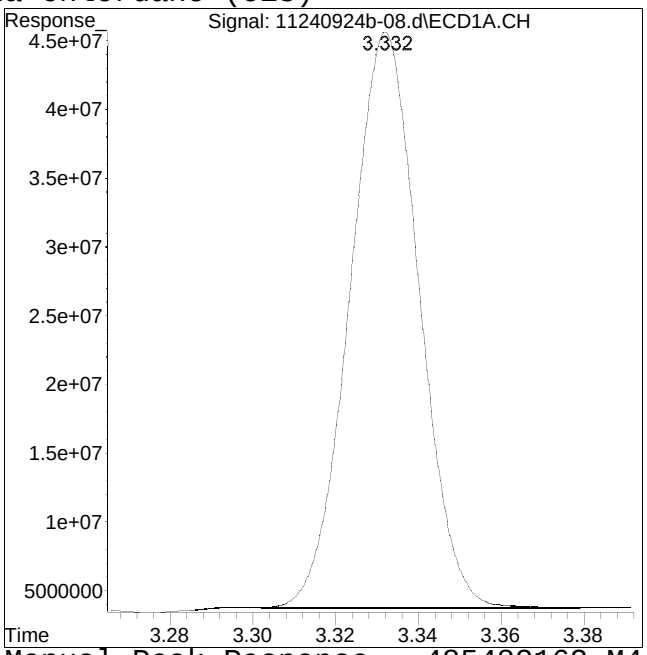
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #14: alpha-Chlordane (cis)



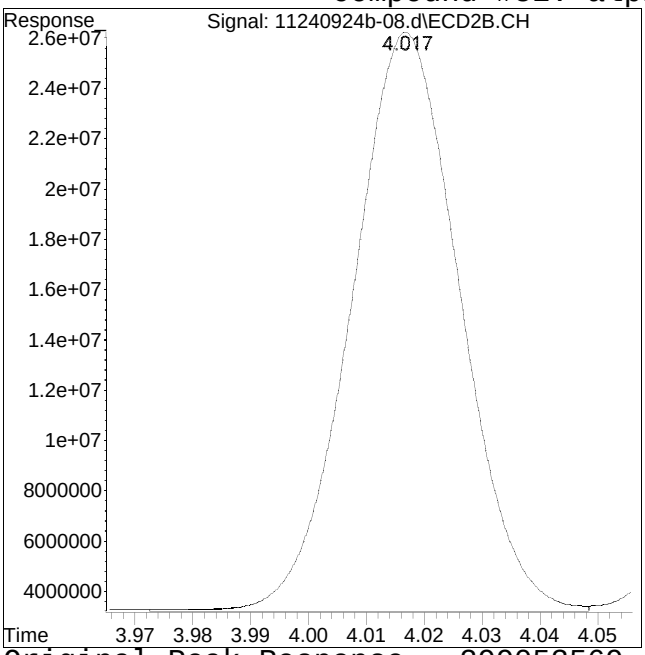


Original Peak Response = 501320667 Manual Peak Response = 485482162 M4
M4 = Poor automated baseline construction.

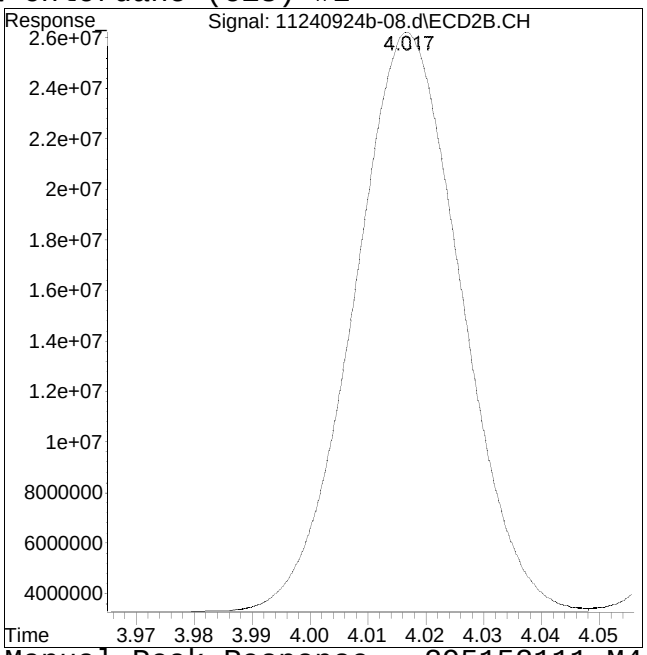
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 299053569



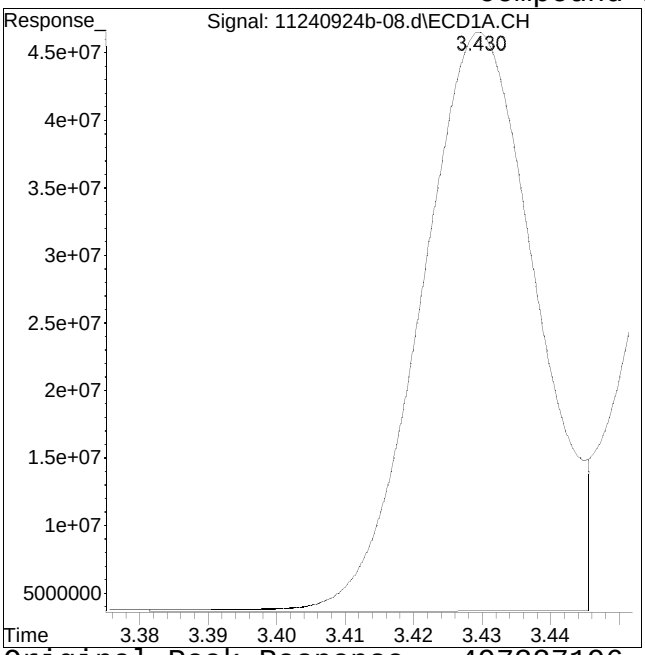
Manual Peak Response = 295152111 M4

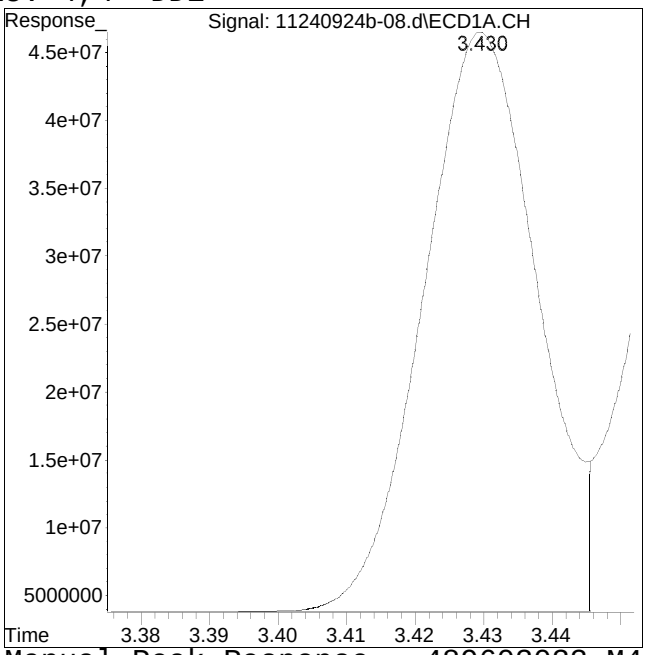
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #15: 4,4'-DDE



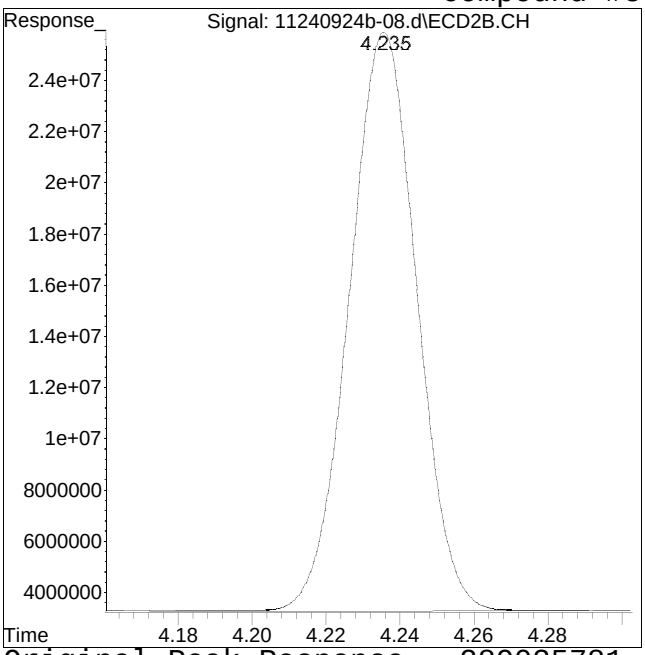


Original Peak Response = 497327196 Manual Peak Response = 489603033 M4
M4 = Poor automated baseline construction.

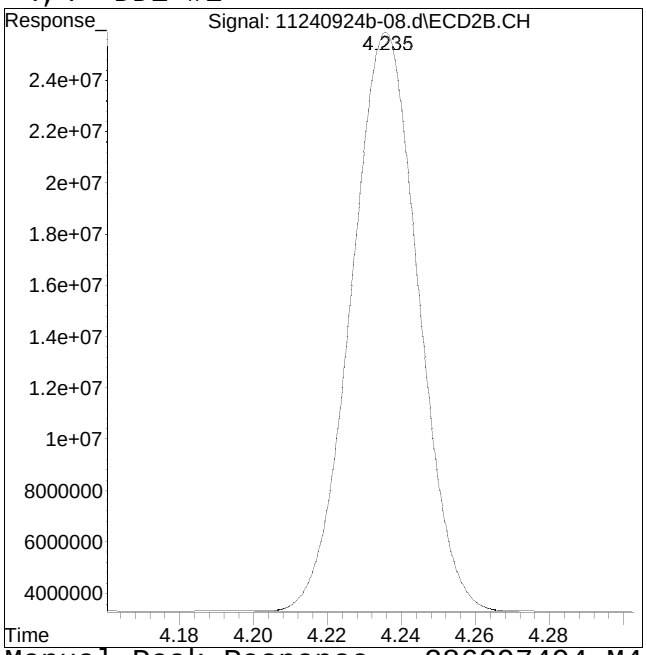
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 289035781



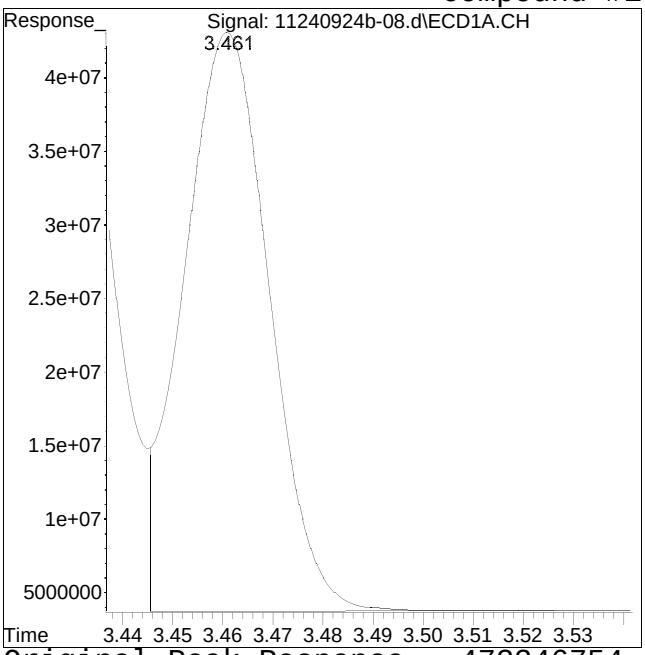
Manual Peak Response = 286297494 M4

M4 = Poor automated baseline construction.

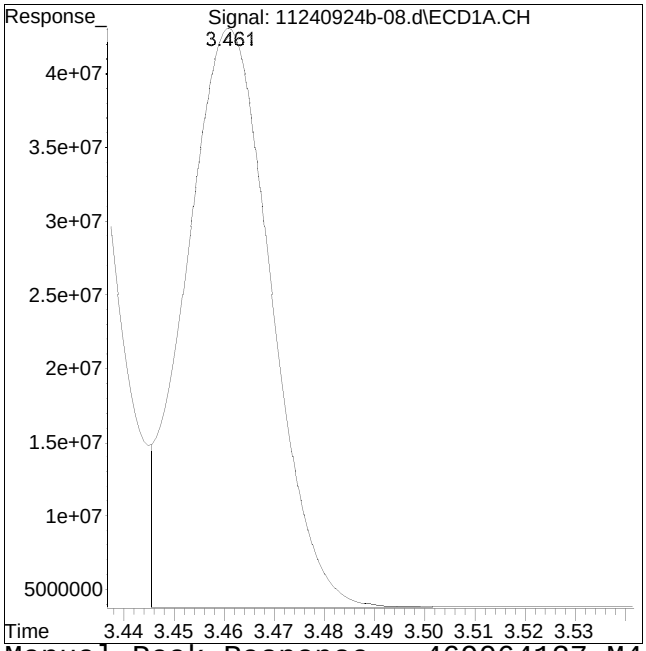
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #16: Endosulfan I



Original Peak Response = 473346754



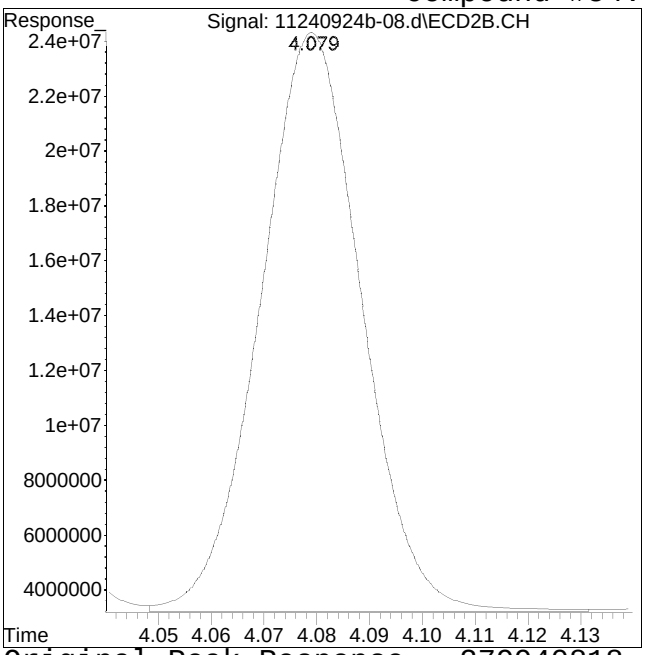
Manual Peak Response = 469064137 M4

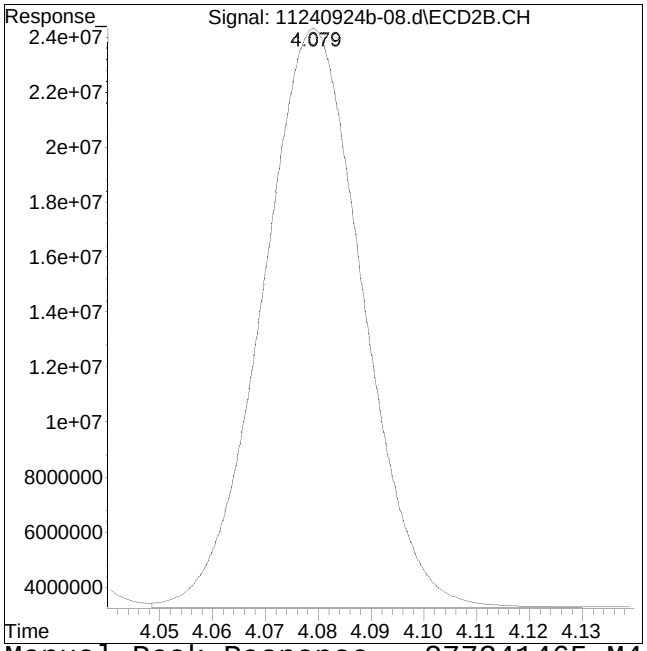
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #54: Endosulfan I #2



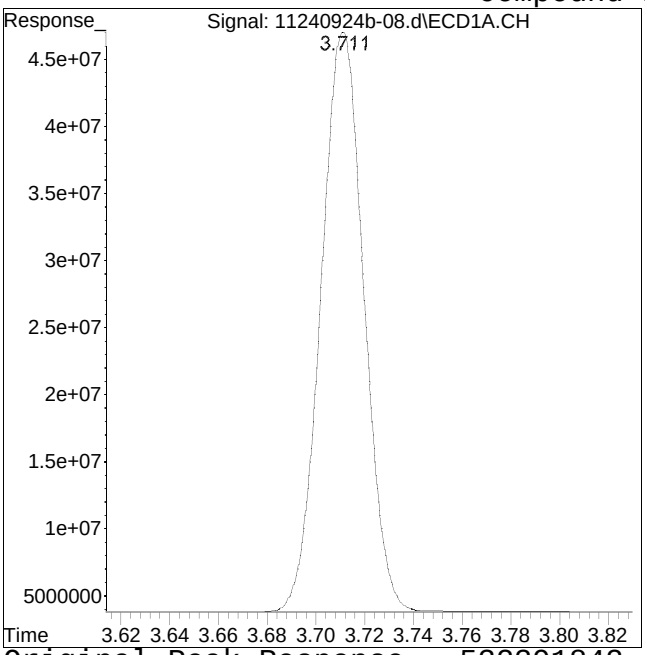


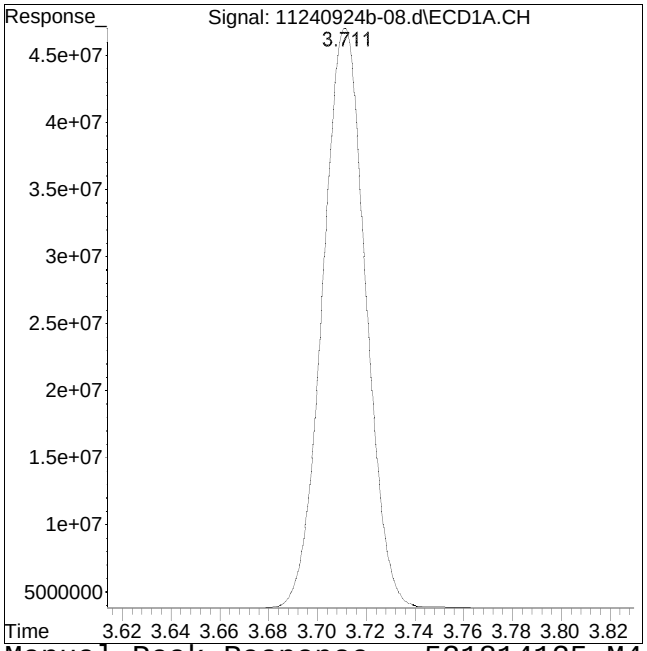
Original Peak Response = 279940818 Manual Peak Response = 277341465 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #17: Dieldrin



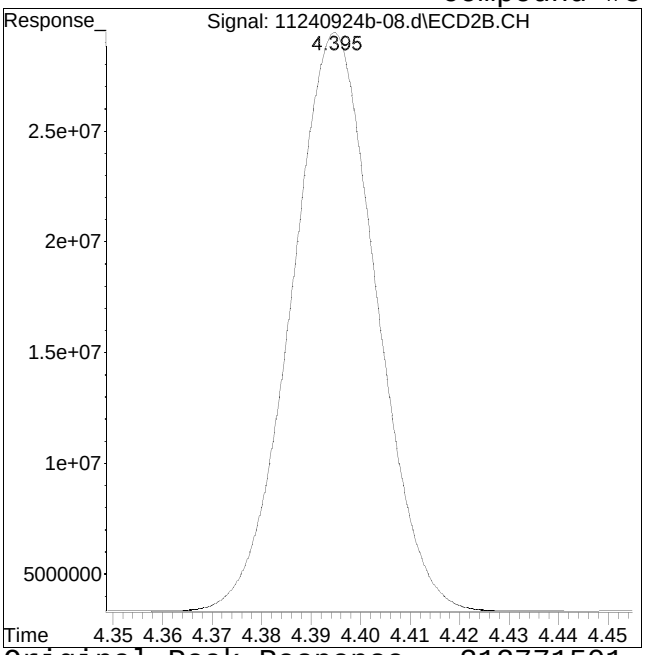


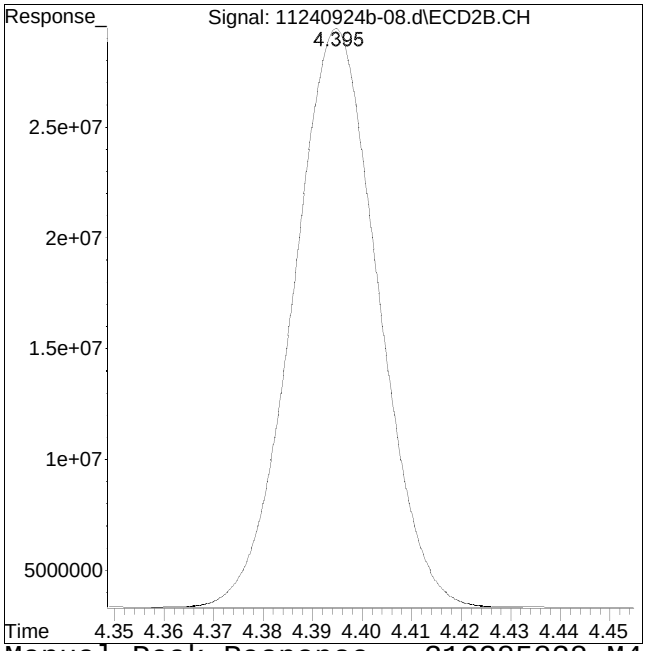
Original Peak Response = 532391842 Manual Peak Response = 531814125 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #55: Dieldrin #2



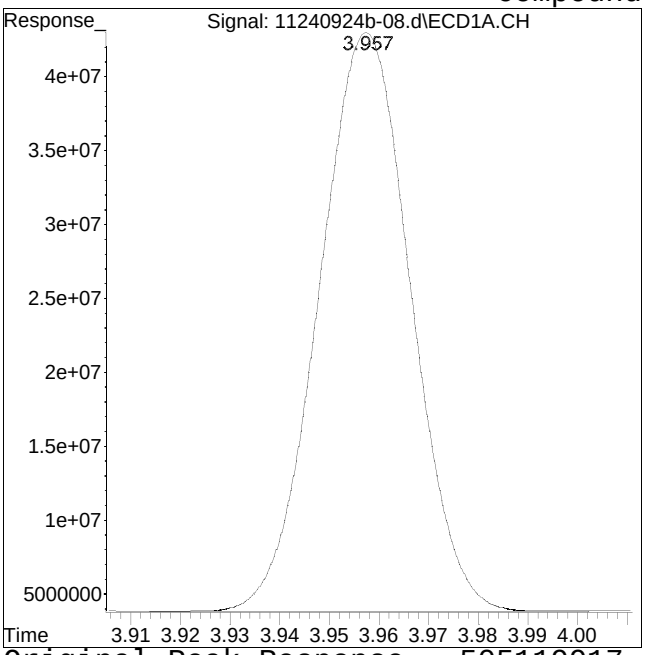


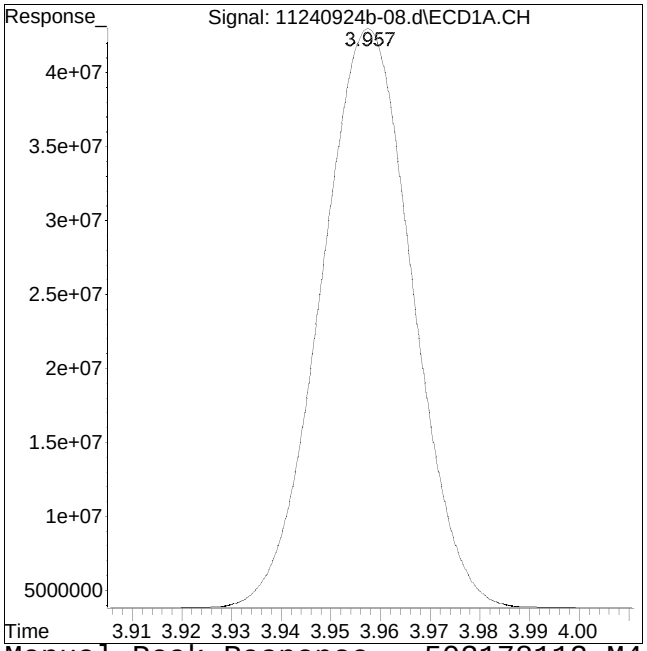
Original Peak Response = 312771501 Manual Peak Response = 312385838 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #18: Endrin



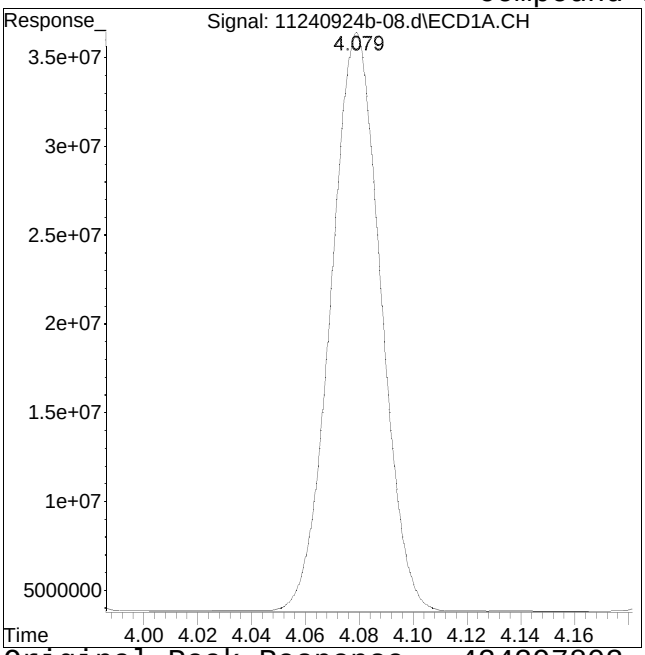


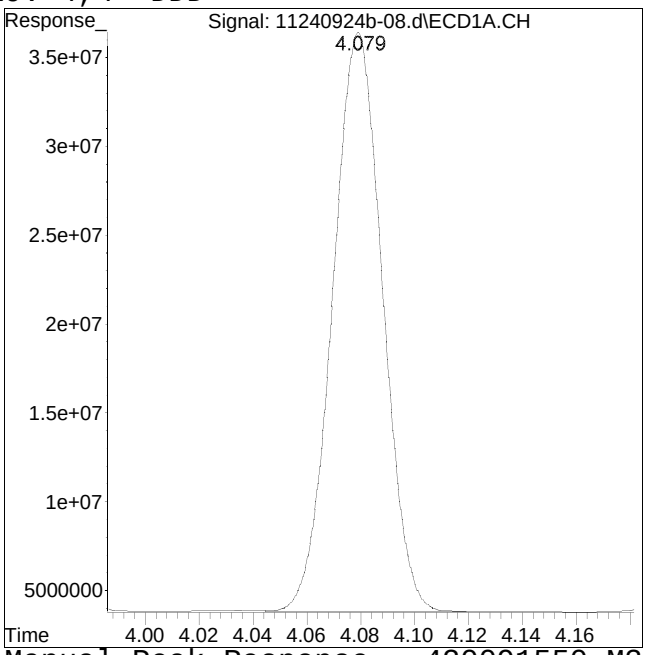
Original Peak Response = 505119917 Manual Peak Response = 503178112 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #19: 4,4'-DDD



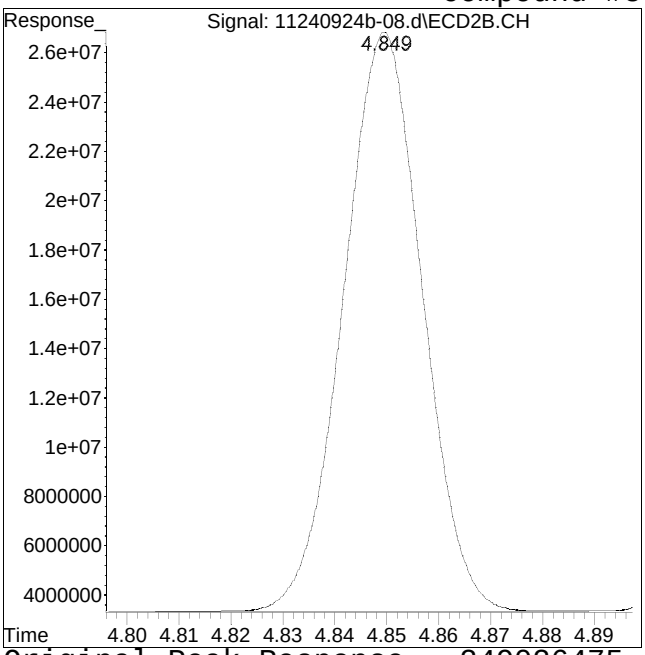


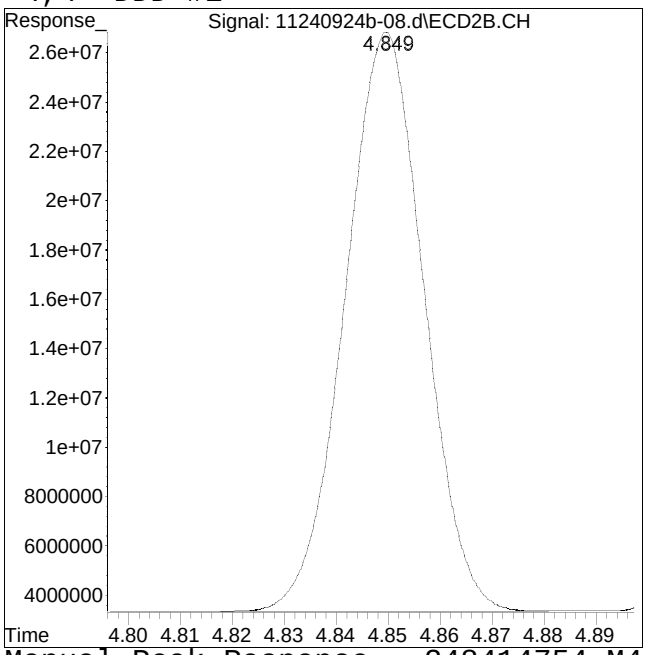
Original Peak Response = 424397803 Manual Peak Response = 420091550 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #57: 4,4'-DDD #2



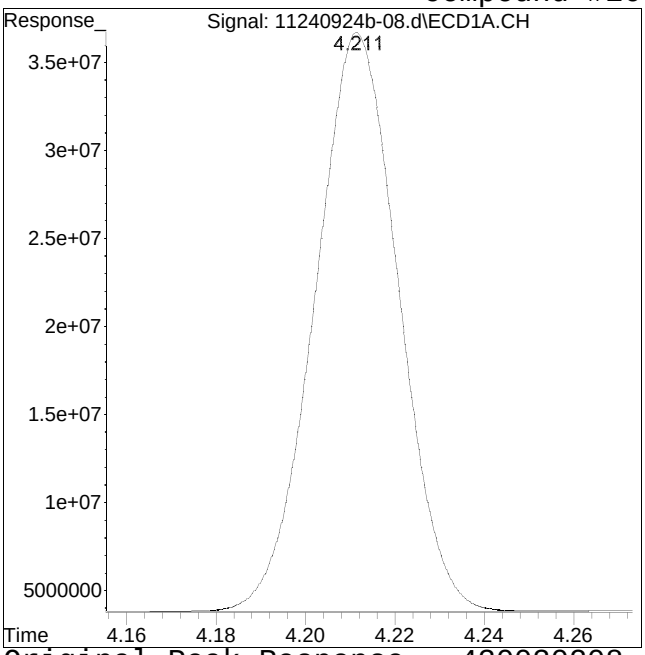


Original Peak Response = 249026475 Manual Peak Response = 248414754 M4
M4 = Poor automated baseline construction.

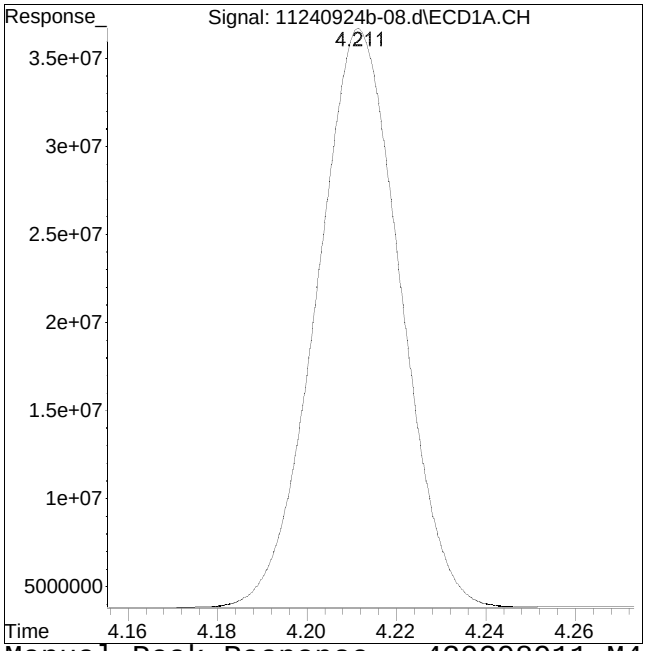
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #20: Endosulfan II



Original Peak Response = 430030208

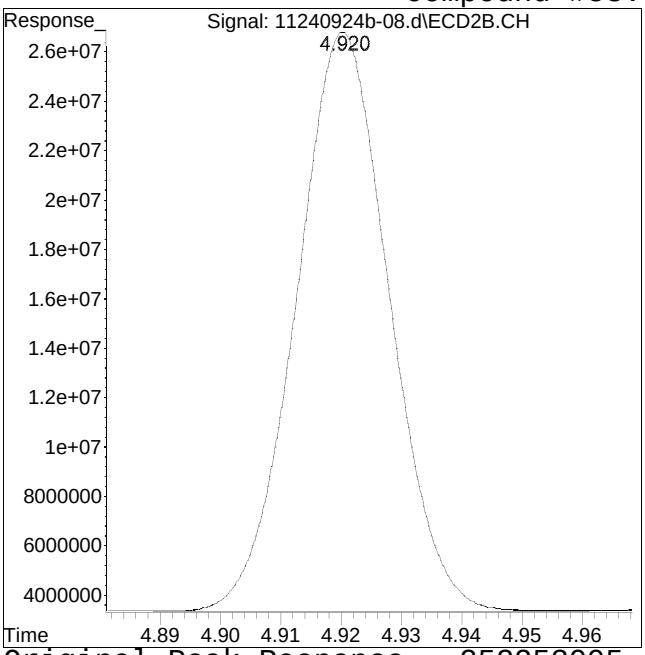


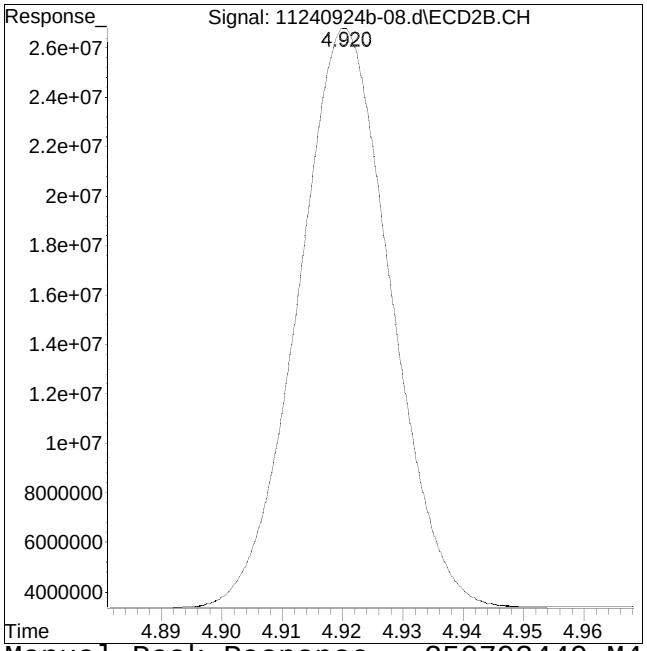
Manual Peak Response = 429208911 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #58: Endosulfan II #2



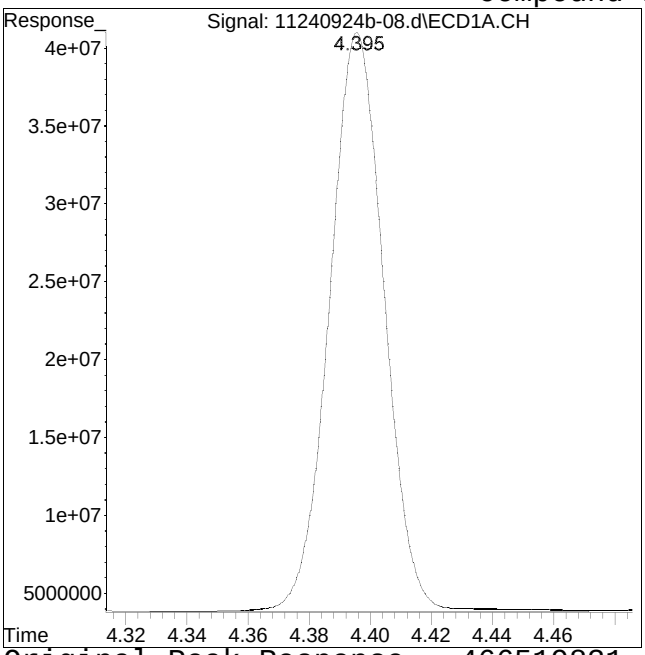


Original Peak Response = 252253995 Manual Peak Response = 250793440 M4
M4 = Poor automated baseline construction.

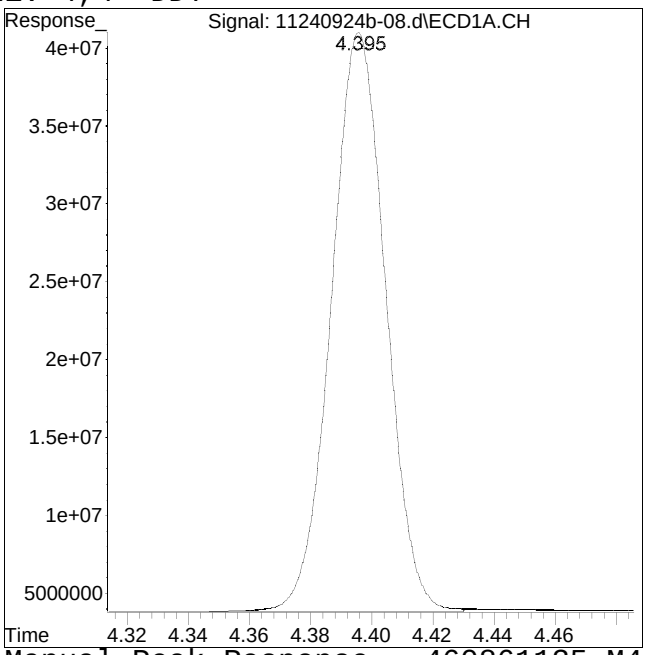
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #21: 4,4'-DDT



Original Peak Response = 466519831



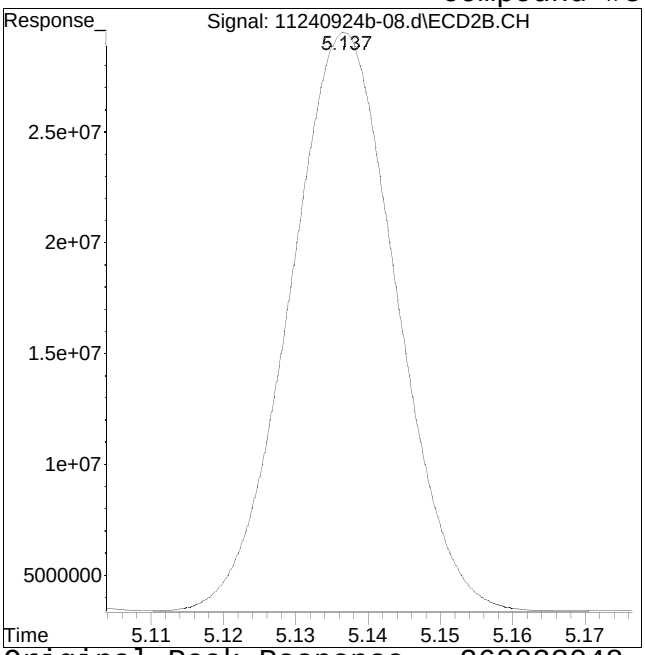
Manual Peak Response = 460861135 M4

M4 = Poor automated baseline construction.

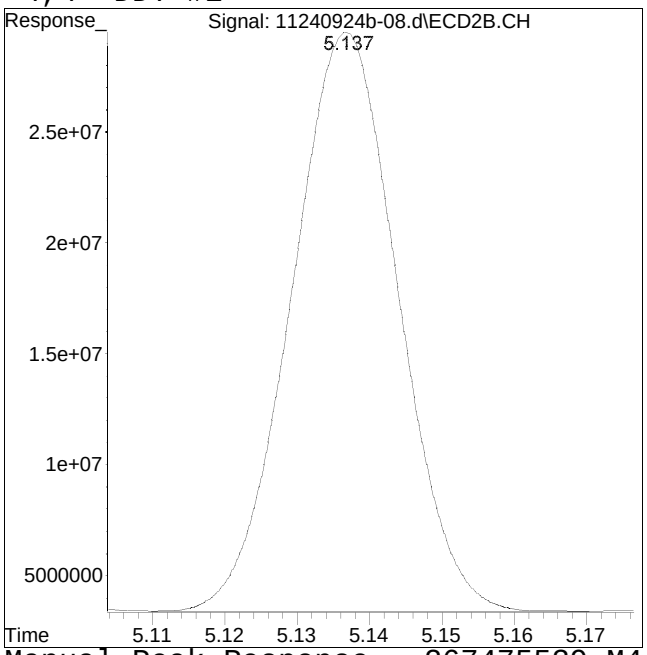
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #59: 4,4'-DDT #2



Original Peak Response = 268823048



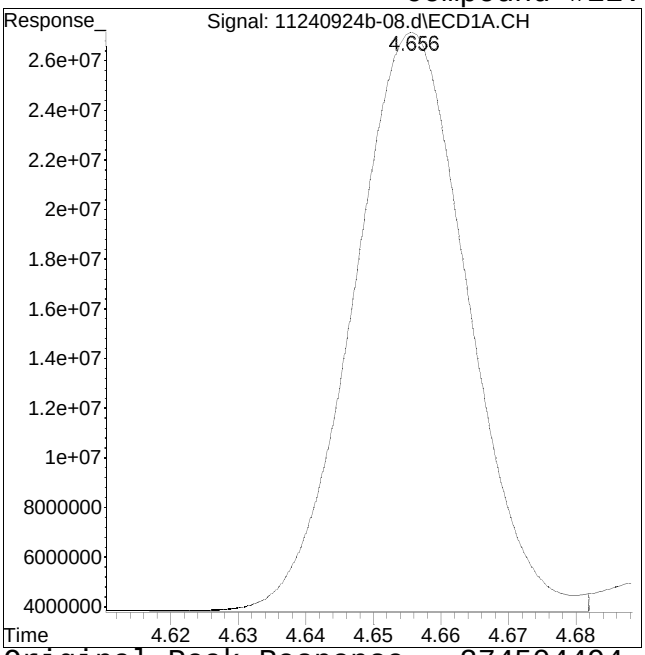
Manual Peak Response = 267475539 M4

M4 = Poor automated baseline construction.

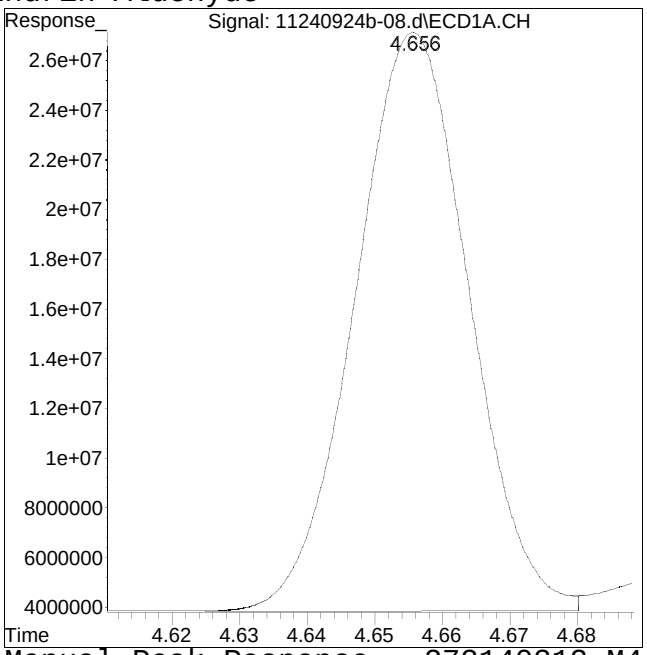
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 274504494



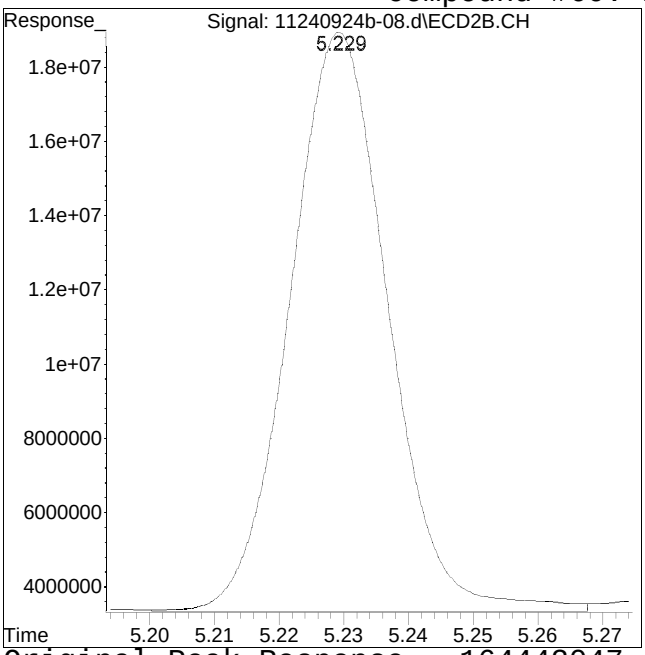
Manual Peak Response = 272140312 M4

M4 = Poor automated baseline construction.

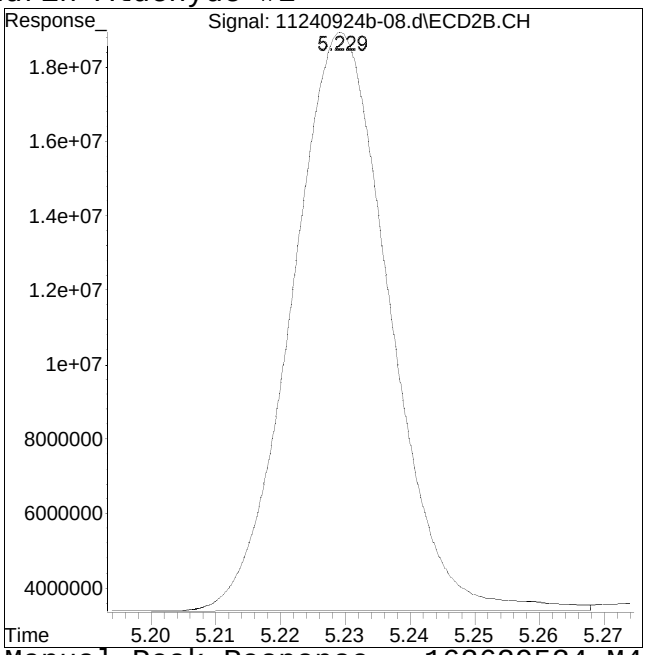
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 164442047



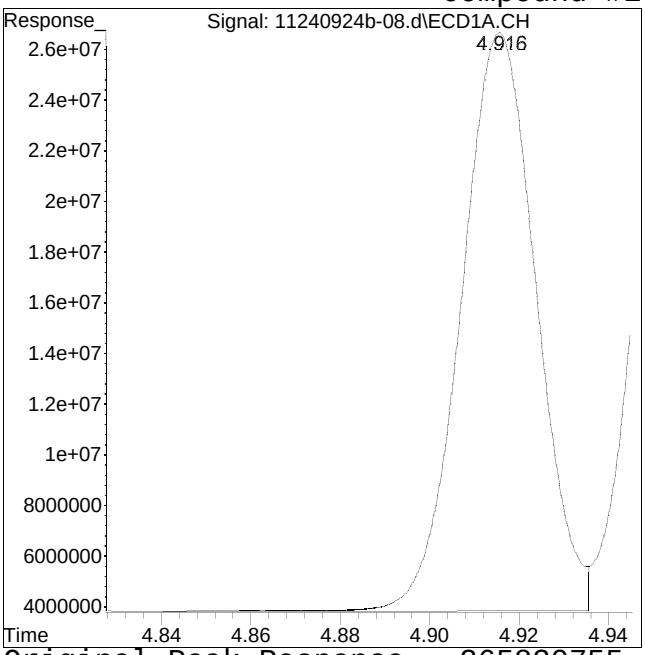
Manual Peak Response = 162629524 M4

M4 = Poor automated baseline construction.

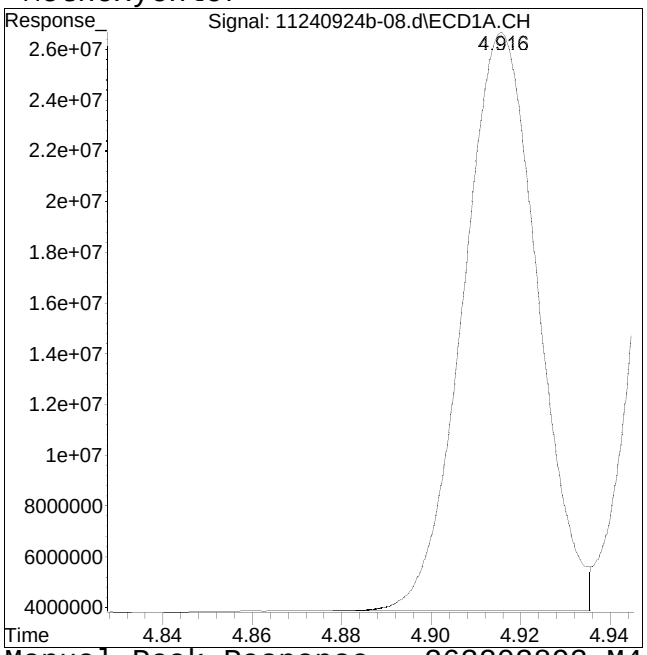
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #23: Methoxychlor



Original Peak Response = 265830755



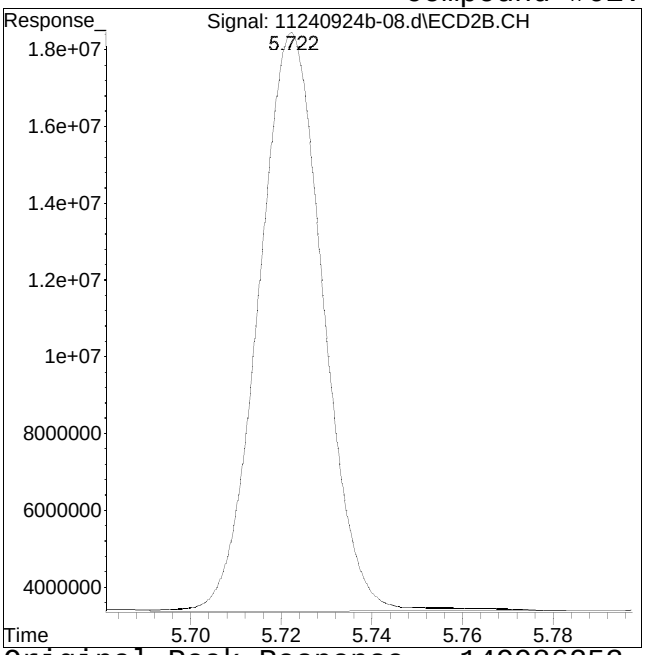
Manual Peak Response = 263203893 M4

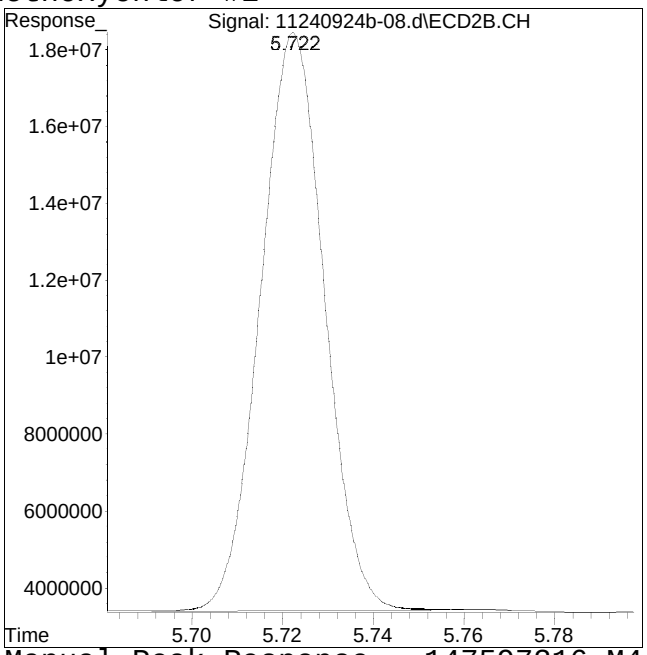
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #61: Methoxychlor #2



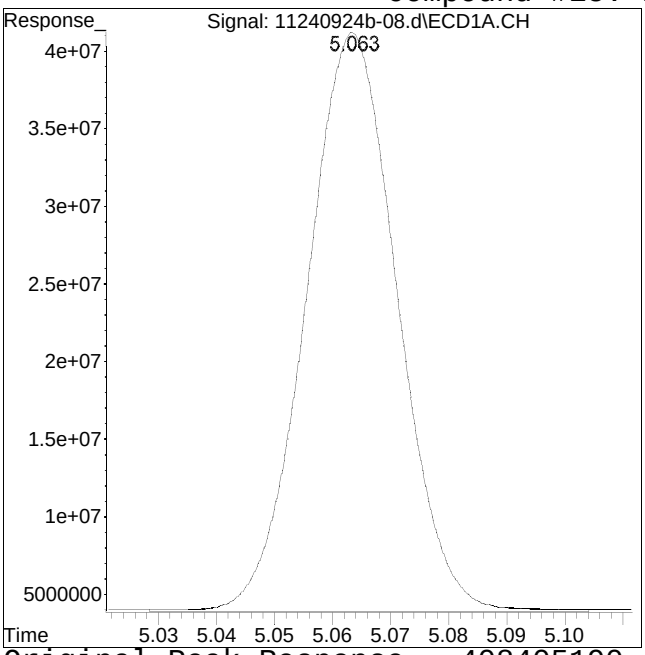


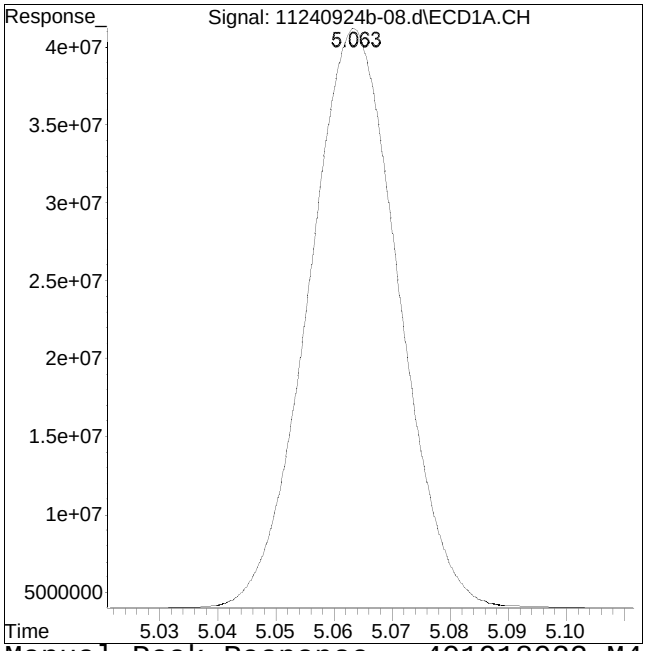
Original Peak Response = 149986253 Manual Peak Response = 147597316 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #25: Endosulfan Sulfate



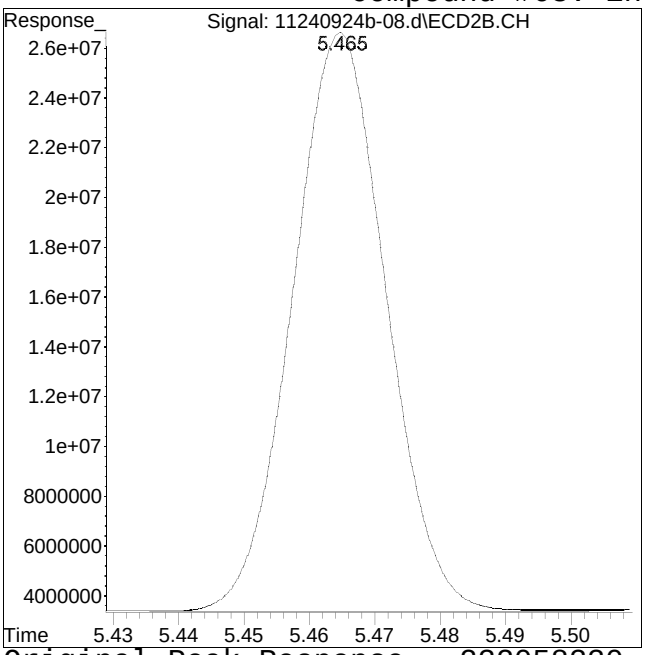


Original Peak Response = 408405190 Manual Peak Response = 401918022 M4
M4 = Poor automated baseline construction.

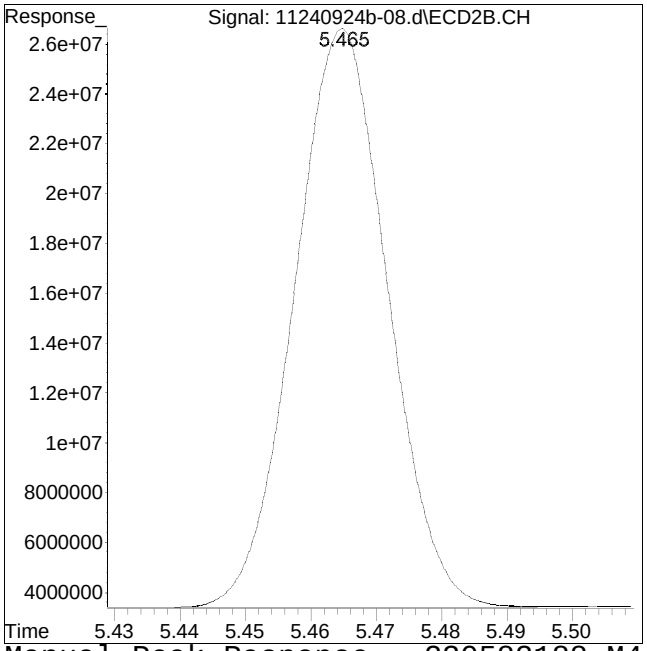
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #63: Endosulfan Sulfate #2



Original Peak Response = 232058330



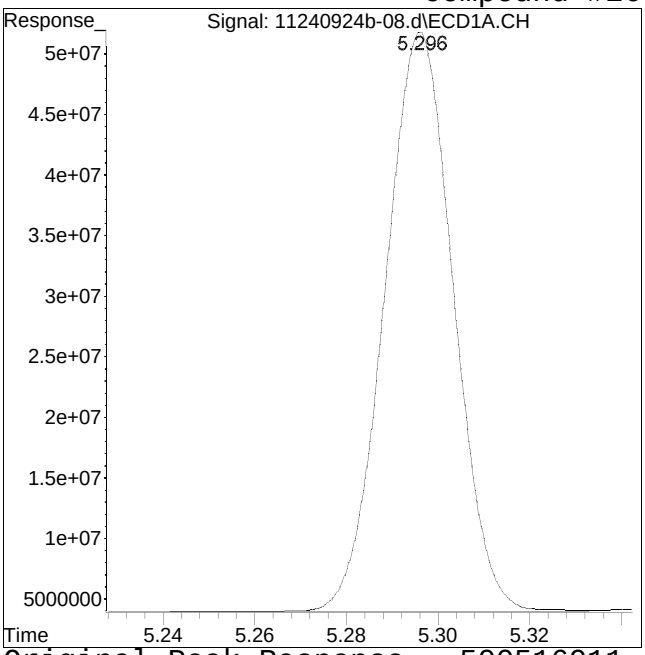
Manual Peak Response = 230583188 M4

M4 = Poor automated baseline construction.

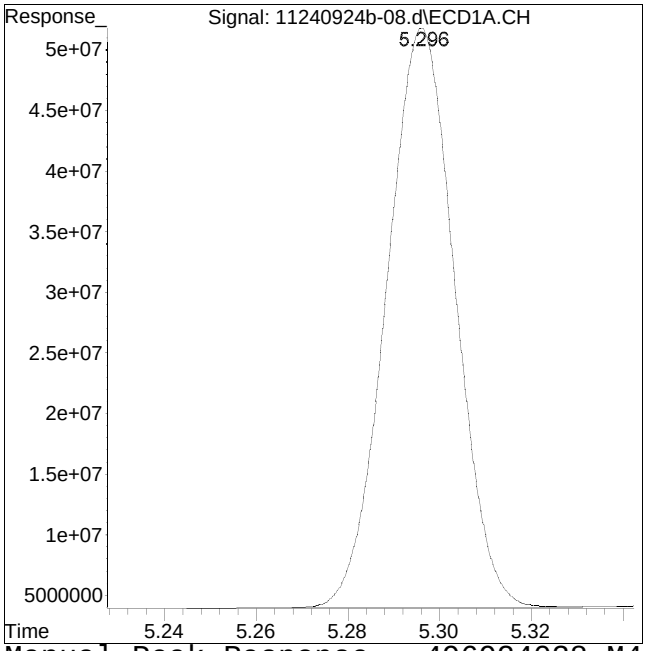
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #26: Endrin Ketone



Original Peak Response = 500516911



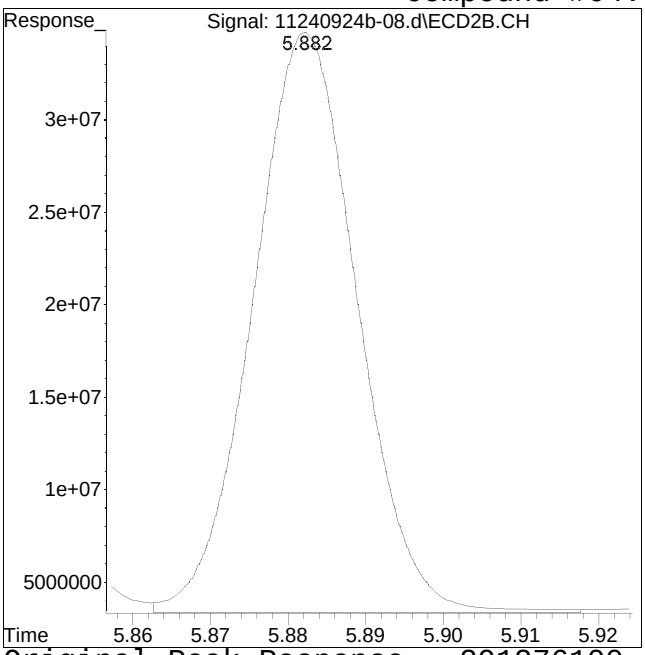
Manual Peak Response = 496924038 M4

M4 = Poor automated baseline construction.

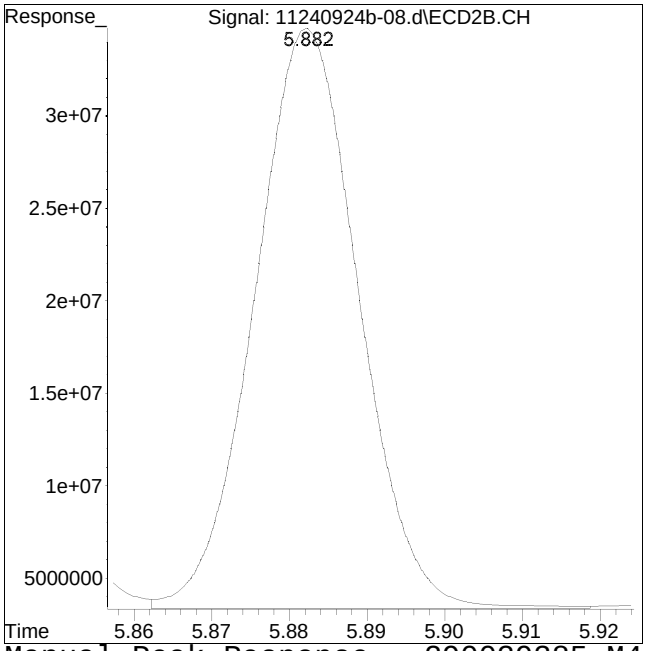
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 291276100



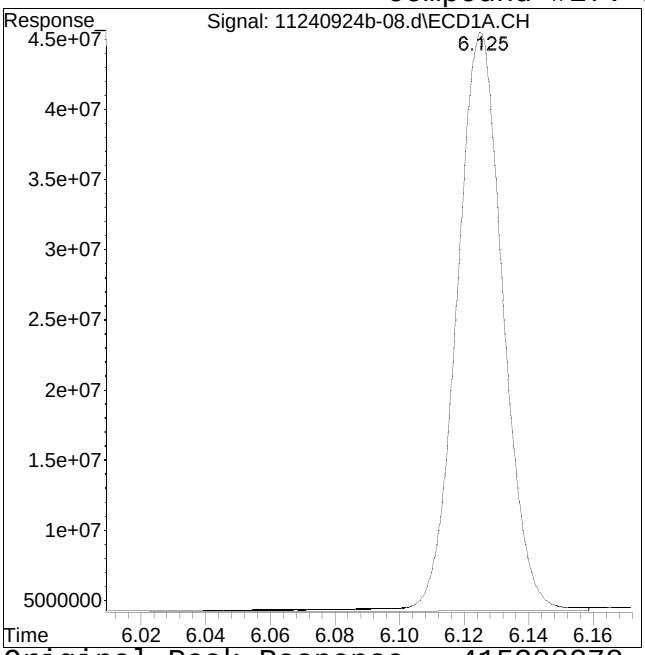
Manual Peak Response = 290039385 M4

M4 = Poor automated baseline construction.

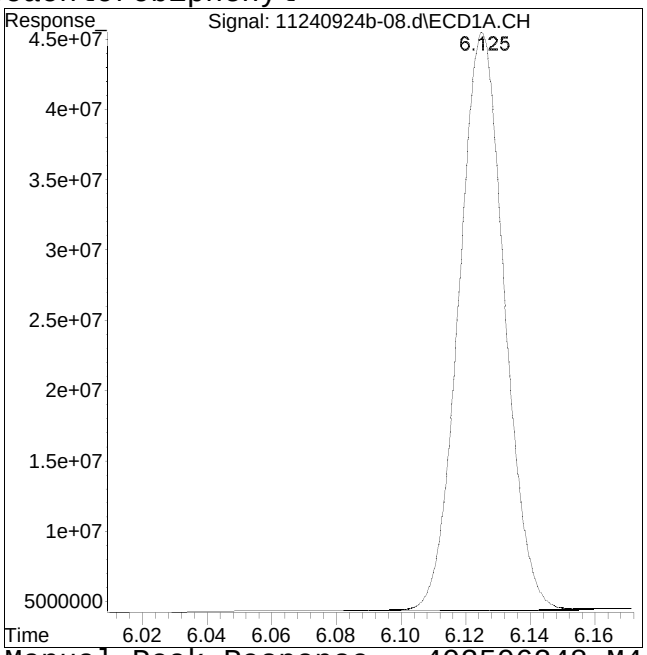
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 415328278



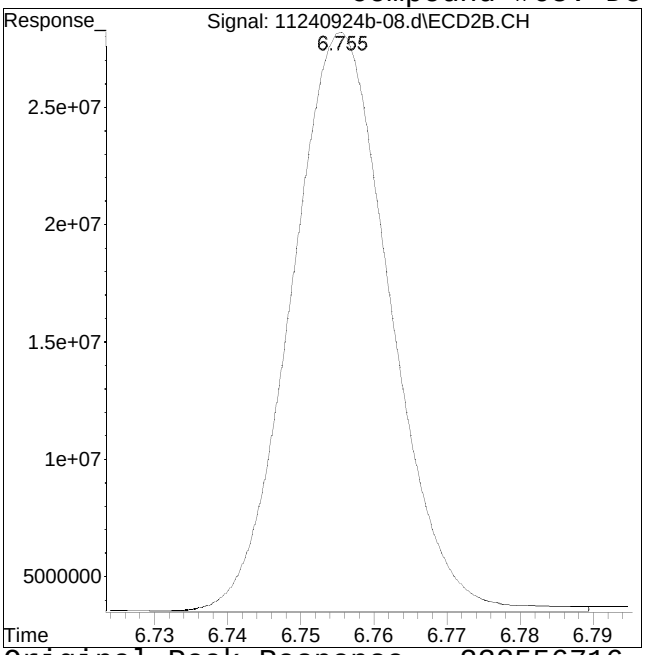
Manual Peak Response = 402506248 M4

M4 = Poor automated baseline construction.

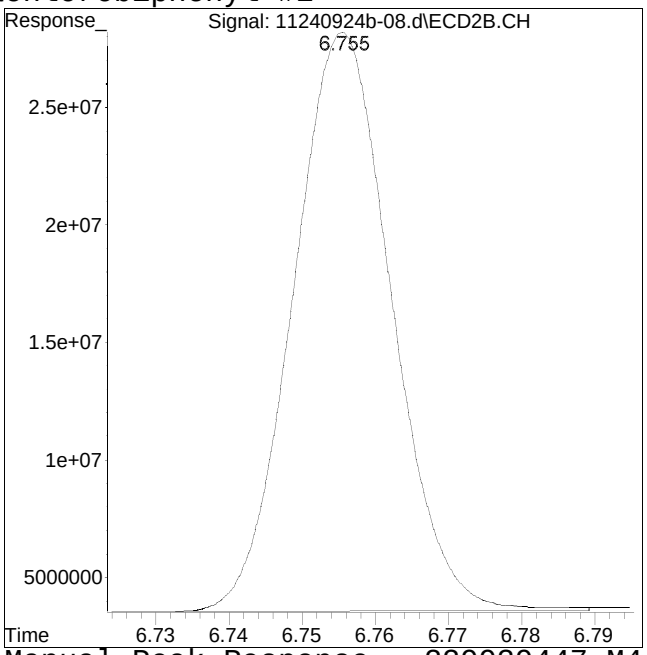
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-08.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:32 Instrument : Pest 11
Sample : WG1975489-2,42,, Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 232556716



Manual Peak Response = 229939447 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:44
Operator : PEST11:jag
Sample : WG1975489-3,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:34 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.192	1.264	271.4E6	178.1E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery =	93.87%	
	Standard Area 1 : #2 = 192001596				Recovery =	92.76%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.519	1.711	460.2E6	289.2E6	40.798M4	36.449M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	81.60%	72.90%	
27) s	Decachlorobi	6.125	6.756	473.1E6	260.2E6	37.472M4	34.453M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	74.94%	68.91%	
Target Compounds							
4) t	alpha-BHC	1.813	2.100	708.5E6	436.0E6	44.689M4	37.786M4
5) t	gamma-BHC (l	2.004	2.370	659.6E6	399.4E6	43.545M4	36.423M4
6) t	beta-BHC	2.058	2.435	285.9E6	175.8E6	41.955M4	38.974M4
7) t	delta-BHC	2.179	2.687	616.1E6	352.8E6	41.306M4	32.518M4
8) t	Heptachlor	2.333	2.744	658.1E6	374.1E6	45.897M4	32.873M4
9) t	Aldrin	2.564	3.047	581.4E6	344.9E6	43.427M4	33.745M4
12) t	Heptachlor E	3.083	3.637	579.3E6	327.7E6	45.018M4	32.270M4
13) t	gamma-Chlord	3.203	3.850	594.0E6	343.3E6	50.806M4	36.743M4
14) t	alpha-Chlord	3.332	4.018	558.5E6	344.0E6	42.302M4	33.395M4
15) t	4,4'-DDE	3.430	4.236	585.7E6	339.6E6	45.279M4	35.506M4
16) t	Endosulfan I	3.461	4.080	557.8E6	328.5E6	46.041	34.619M4
17) t	Dieldrin	3.712	4.396	624.6E6	367.8E6	50.689M4	38.895M4
18) t	Endrin	3.958	4.710	584.3E6	338.4E6	46.694M4	35.272
19) t	4,4'-DDD	4.079	4.850	503.9E6	298.7E6	50.061M4	38.682M4
20) t	Endosulfan I	4.212	4.921	548.8E6	320.1E6	48.051M4	37.021M4
21) t	4,4'-DDT	4.396	5.137	523.9E6	316.3E6	45.593M4	35.518M4

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:44
Operator : PEST11:jag
Sample : WG1975489-3,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:34 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.656	5.230	360.2E6	216.5E6	37.428M4	32.414M4
23) t Methoxychlor	4.916	5.722	316.3E6	175.4E6	49.225M4	34.943M4
25) t Endosulfan S	5.064	5.465	535.1E6	302.2E6	48.821M4	35.371M4
26) t Endrin Keton	5.297	5.883	629.5E6	365.1E6	49.007M4	40.645
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

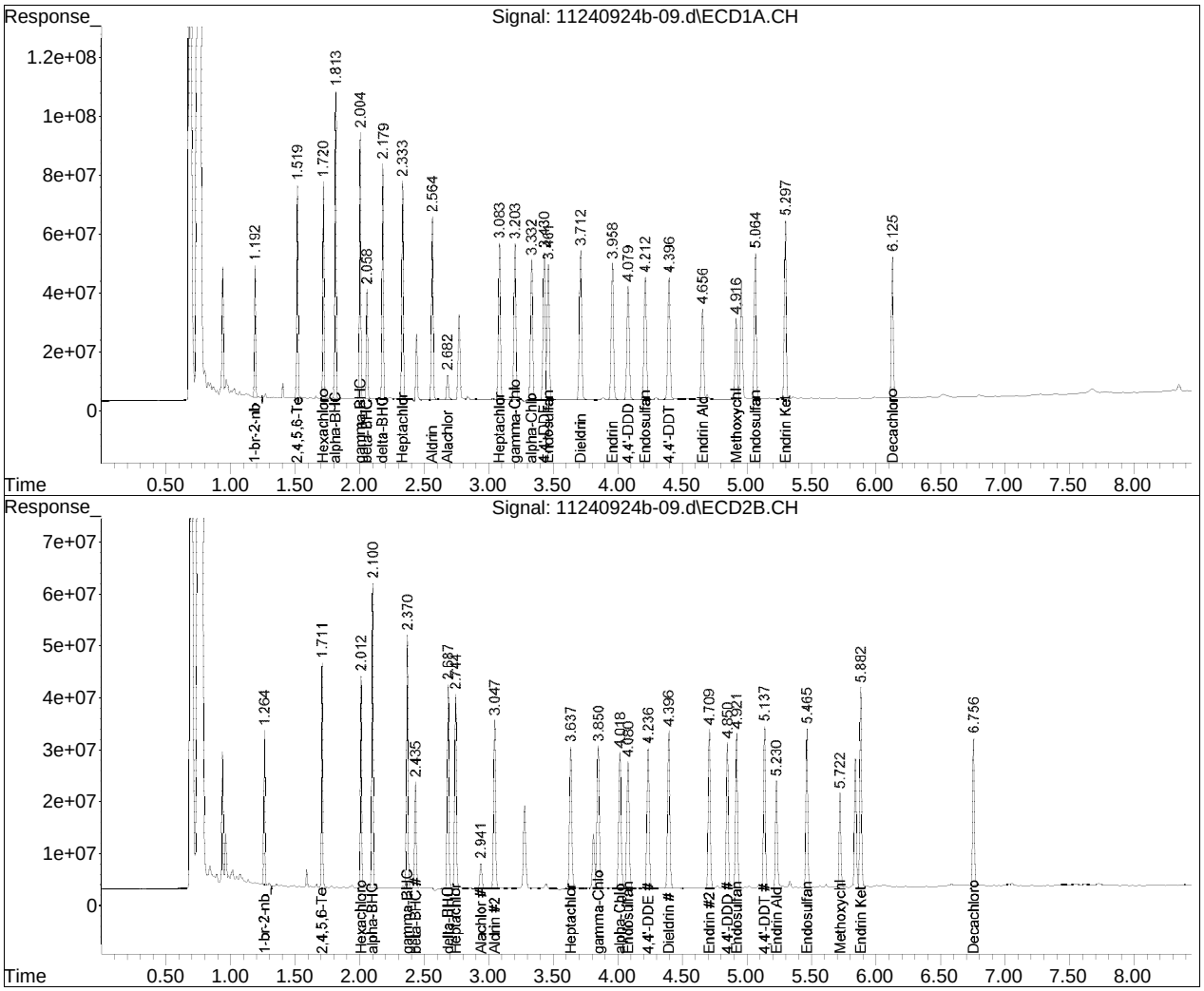
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240924B\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 22:44
Operator : PEST11:jag
Sample : WG1975489-3,42,,
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:34 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

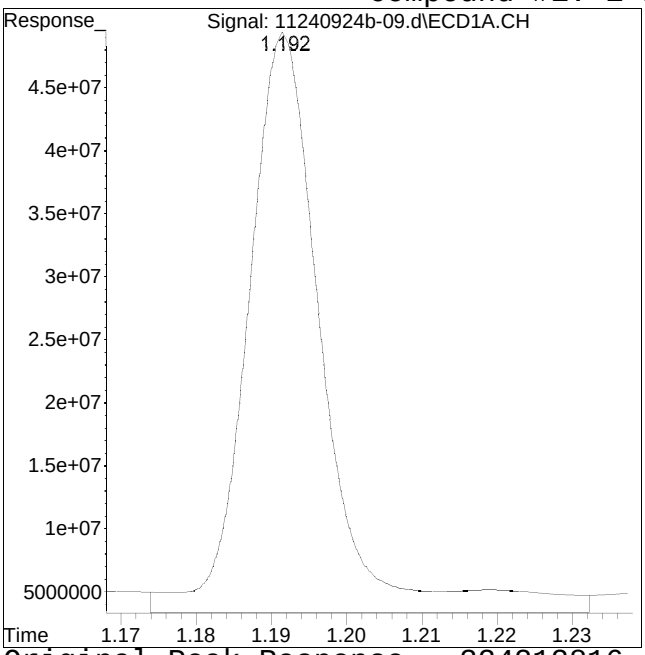
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



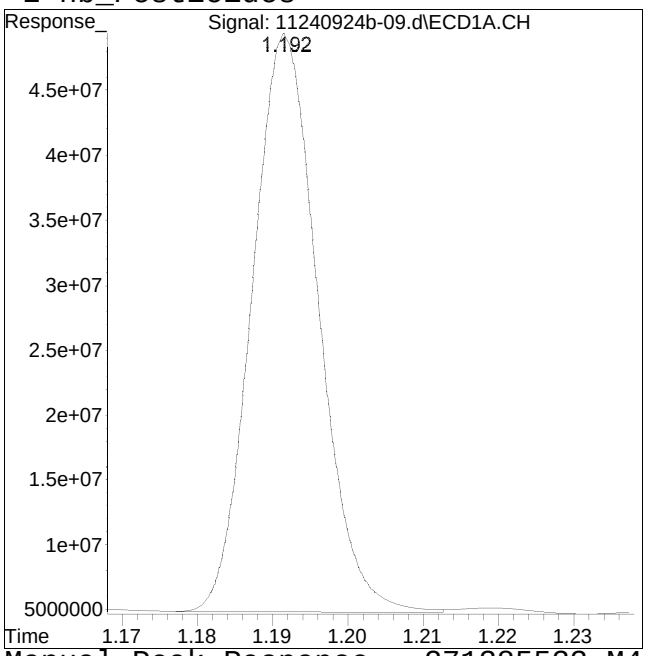
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 324212816



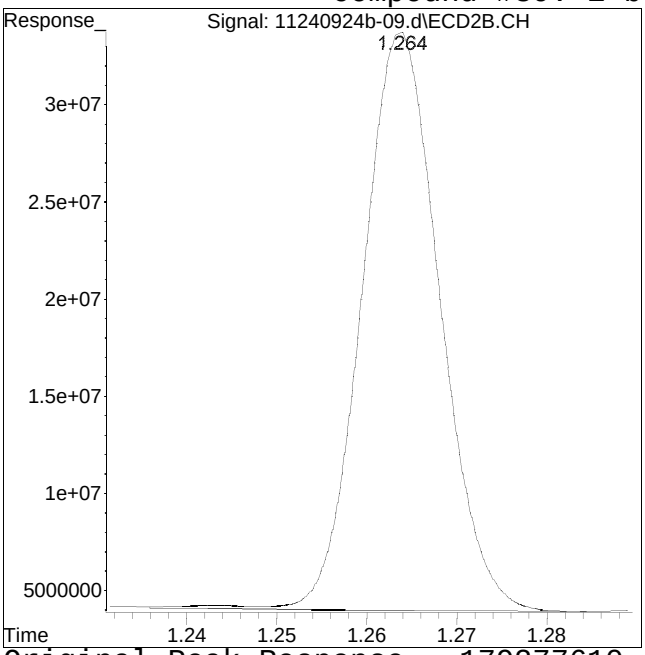
Manual Peak Response = 271385533 M4

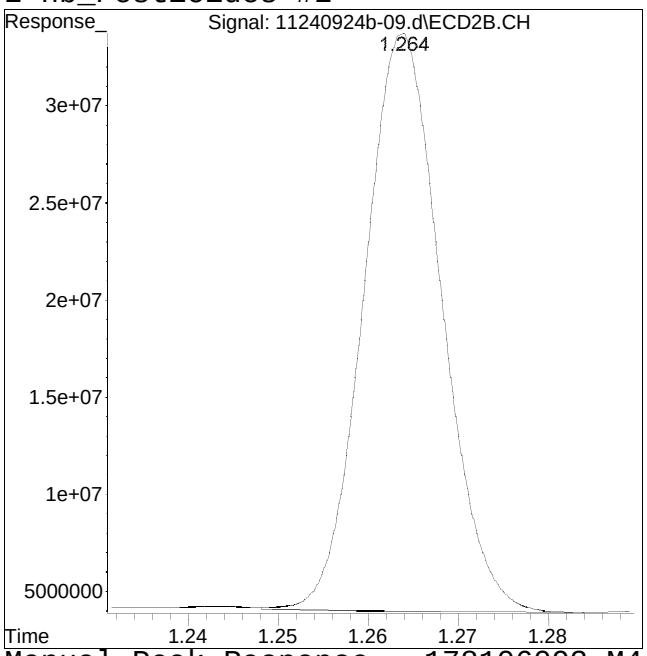
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



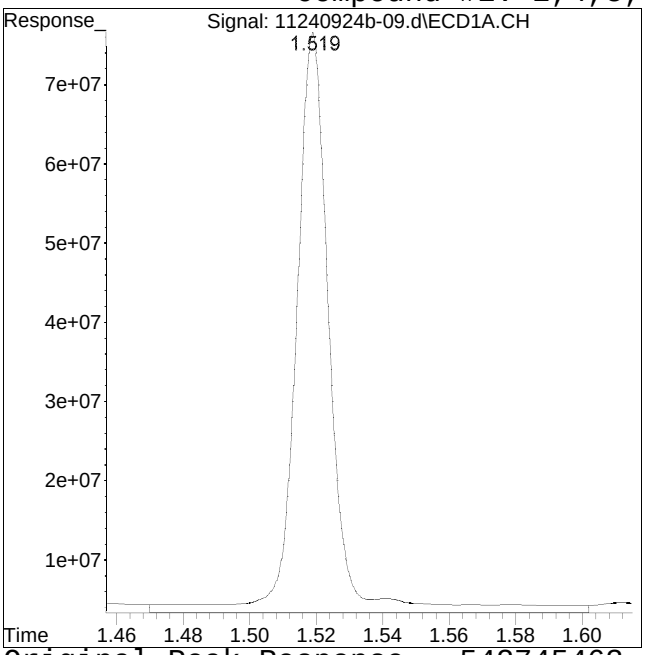


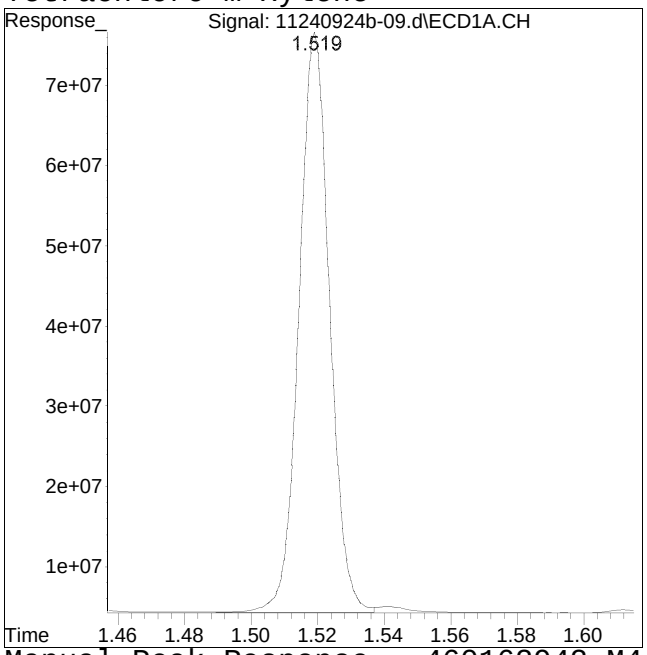
Original Peak Response = 179277610 Manual Peak Response = 178106093 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



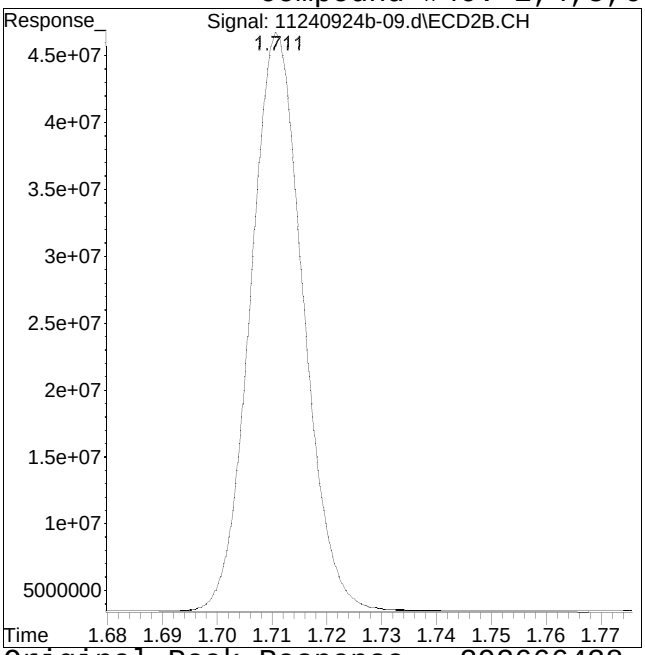


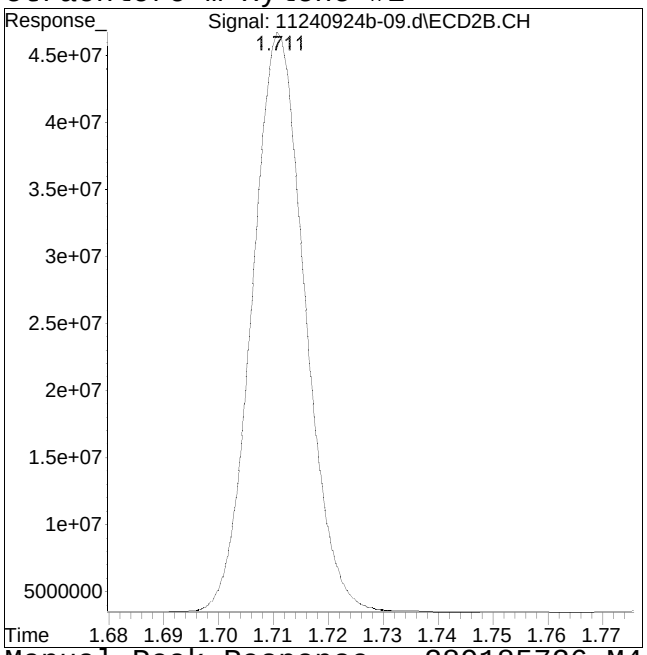
Original Peak Response = 542745463 Manual Peak Response = 460162942 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



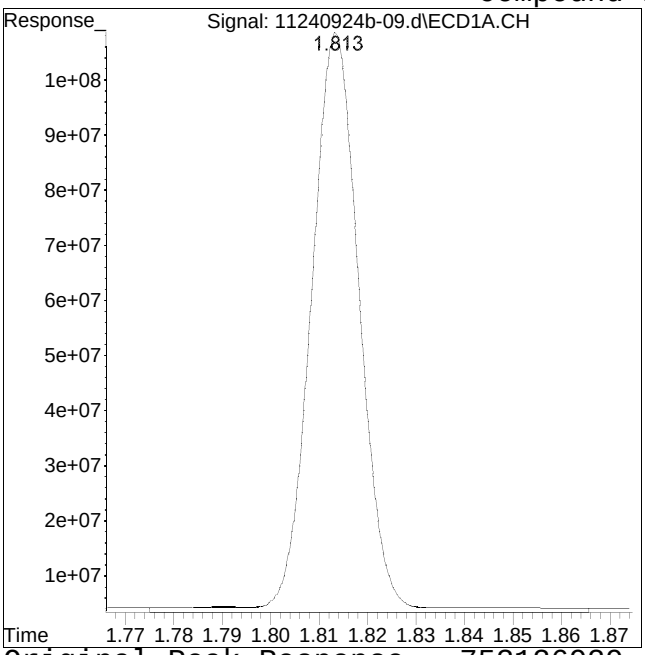


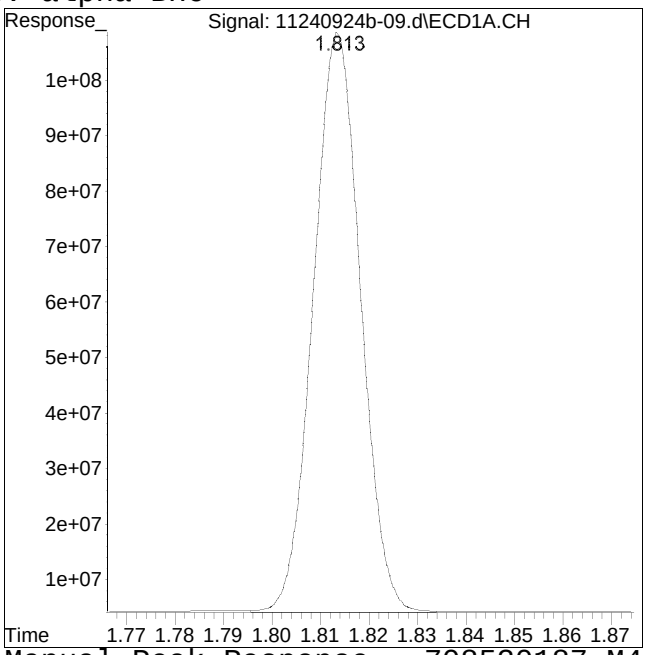
Original Peak Response = 292666438 Manual Peak Response = 289185726 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #4: alpha-BHC



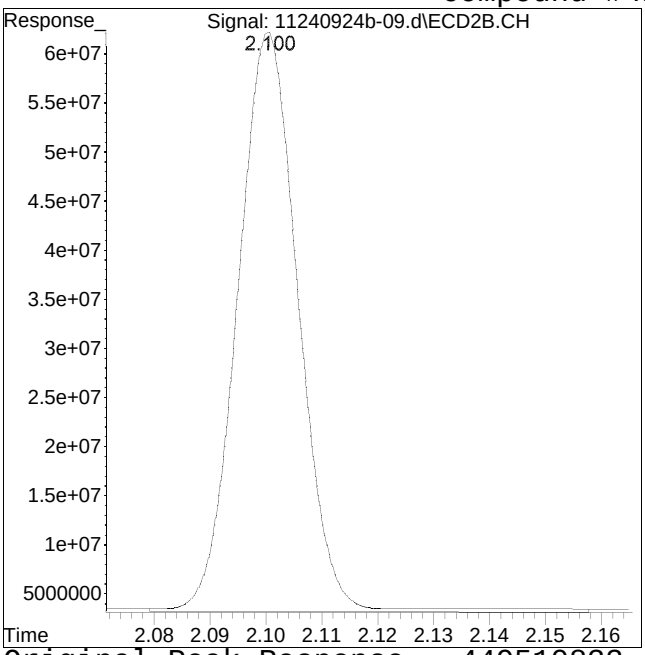


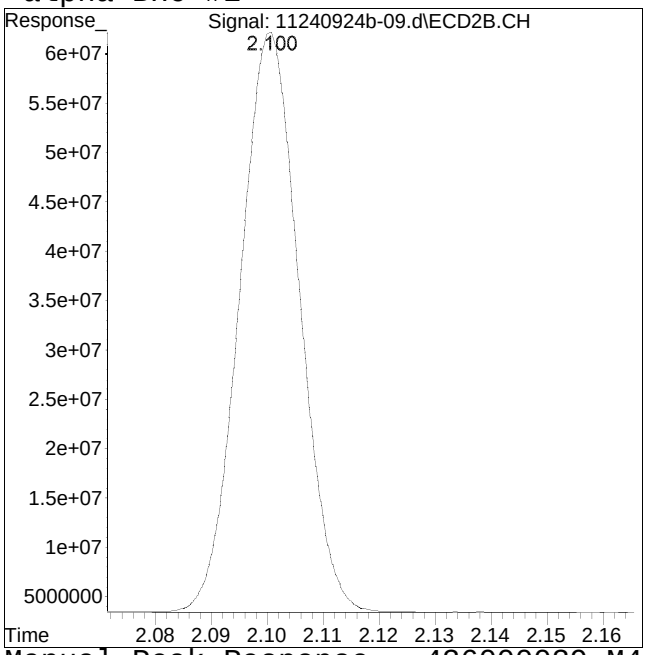
Original Peak Response = 753126929 Manual Peak Response = 708530187 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #42: alpha-BHC #2



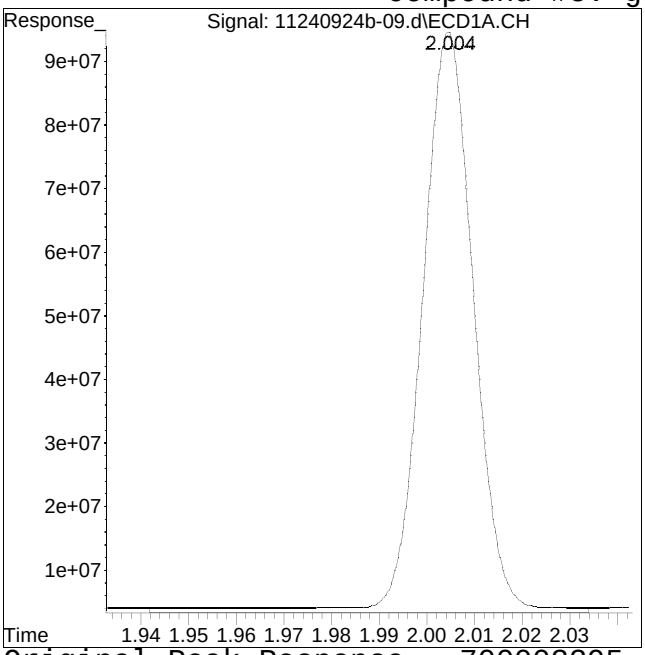


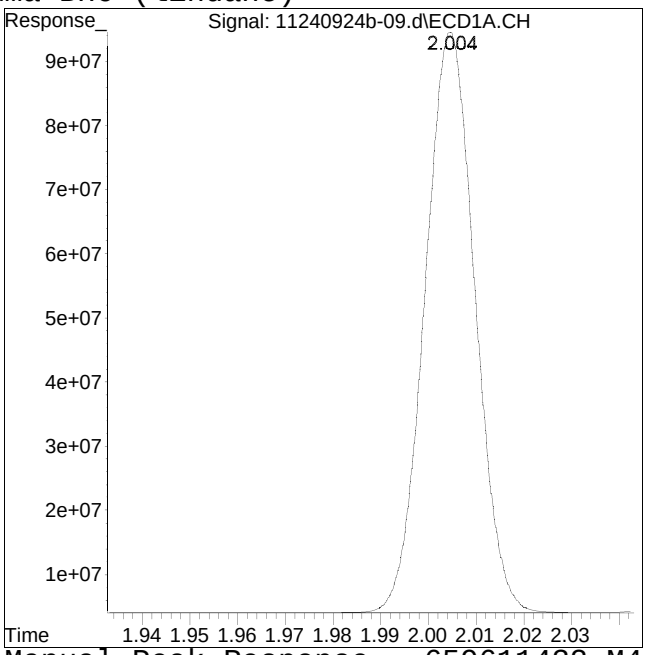
Original Peak Response = 449510833 Manual Peak Response = 436000039 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #5: gamma-BHC (lindane)



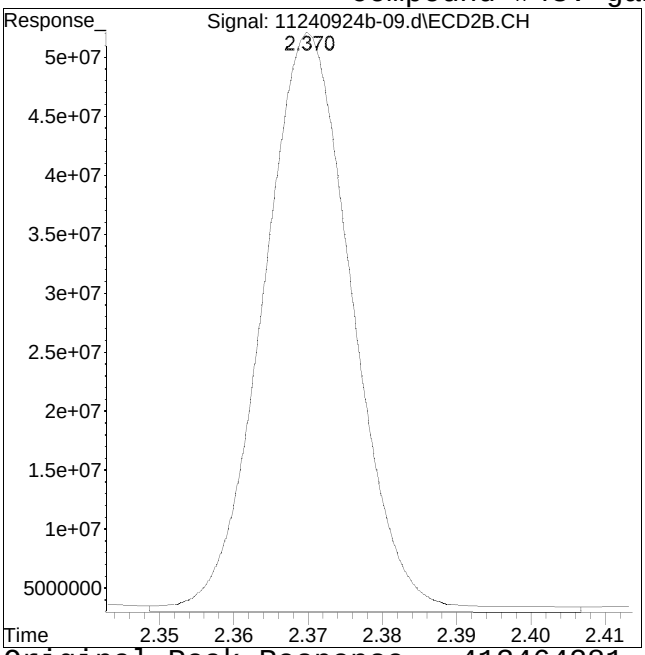


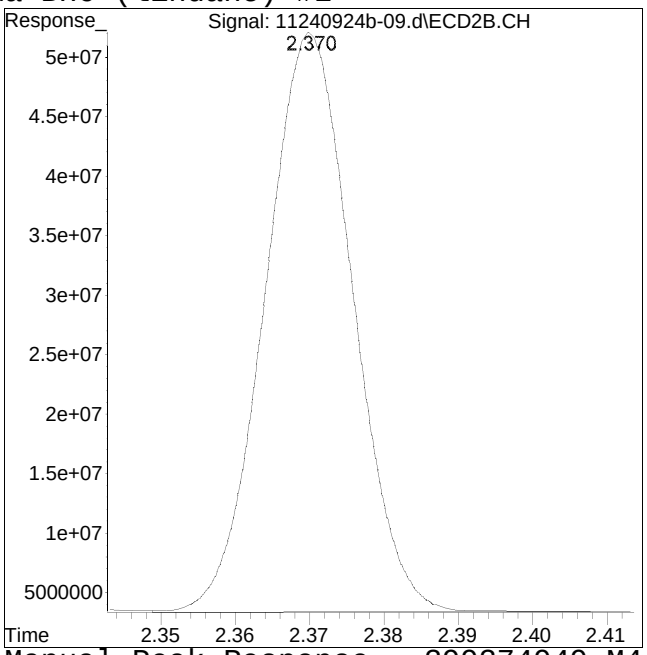
Original Peak Response = 700003395 Manual Peak Response = 659611432 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #43: gamma-BHC (lindane) #2



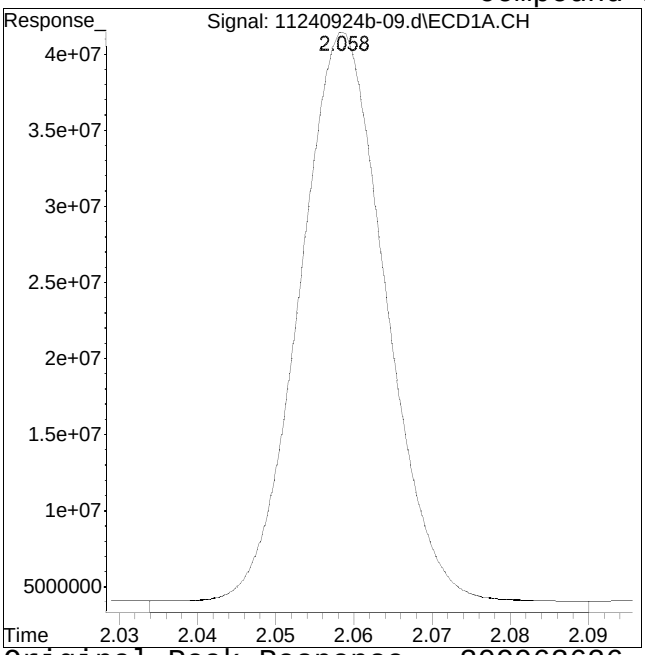


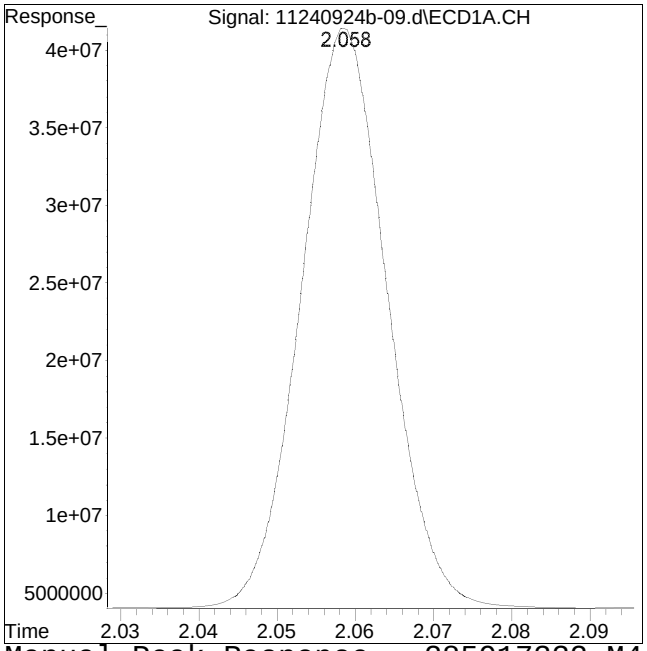
Original Peak Response = 413464281 Manual Peak Response = 399374949 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #6: beta-BHC



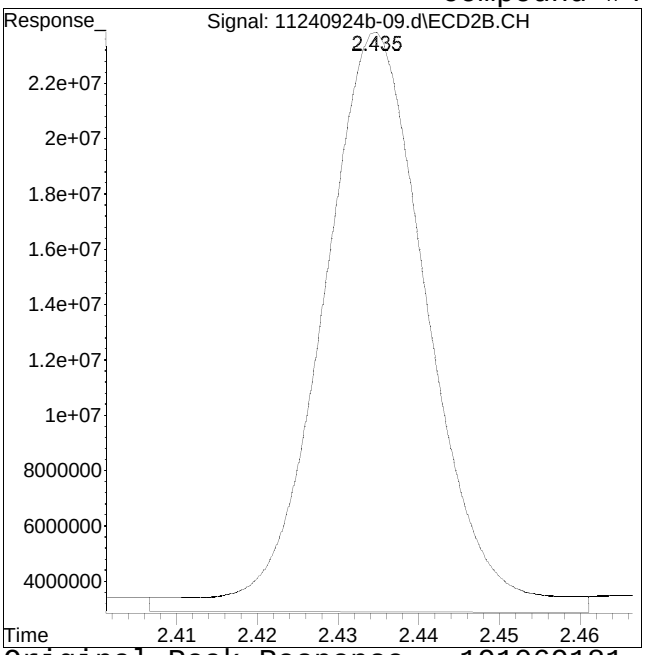


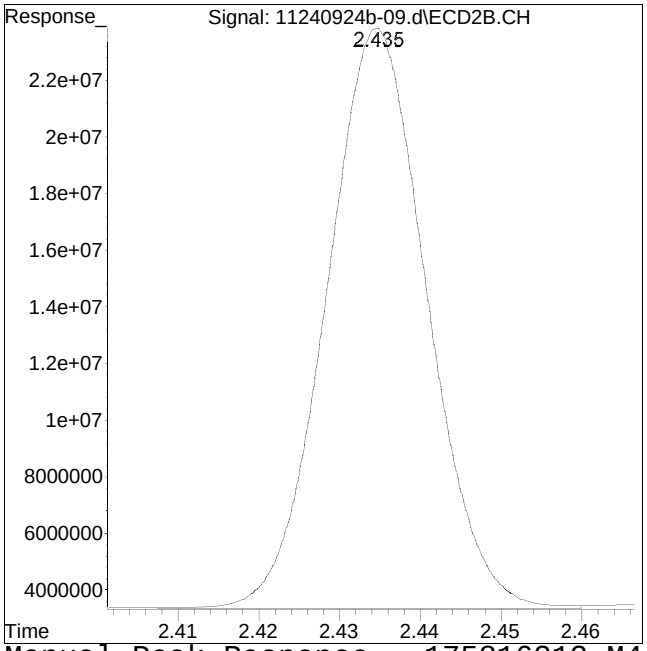
Original Peak Response = 309963626 Manual Peak Response = 285917332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #44: beta-BHC #2



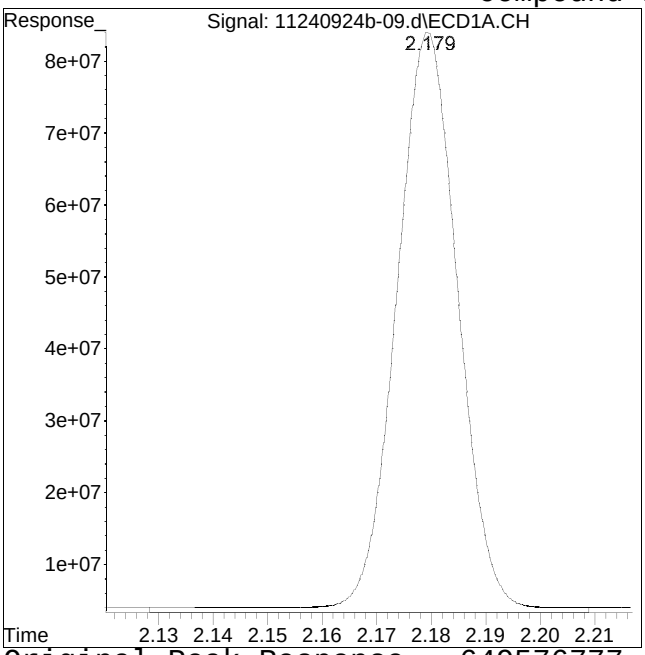


Original Peak Response = 191069181 Manual Peak Response = 175816212 M4
M4 = Poor automated baseline construction.

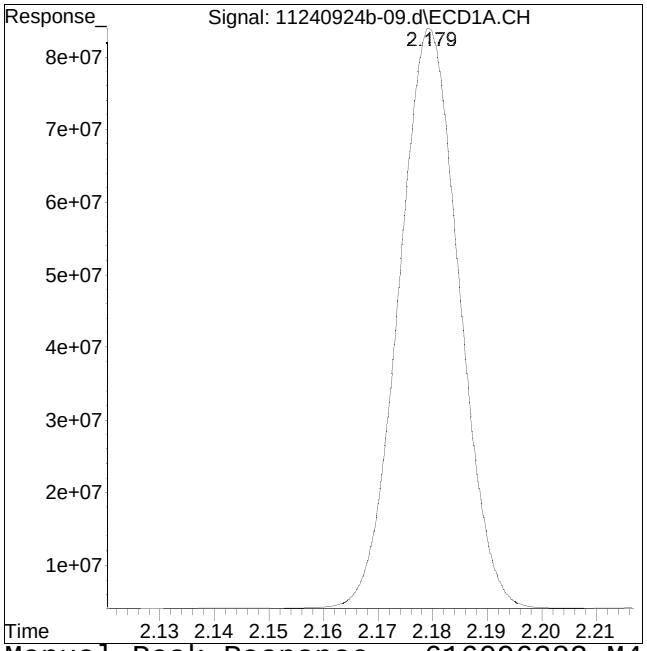
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #7: delta-BHC



Original Peak Response = 649576777



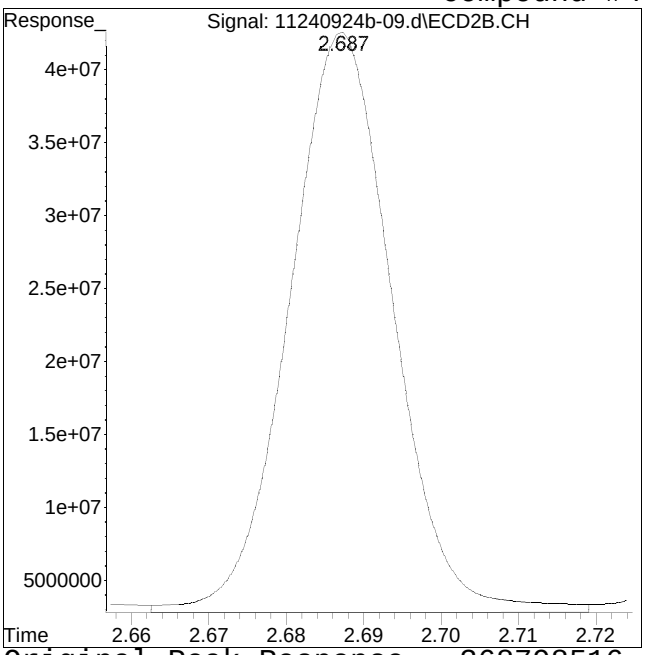
Manual Peak Response = 616096282 M4

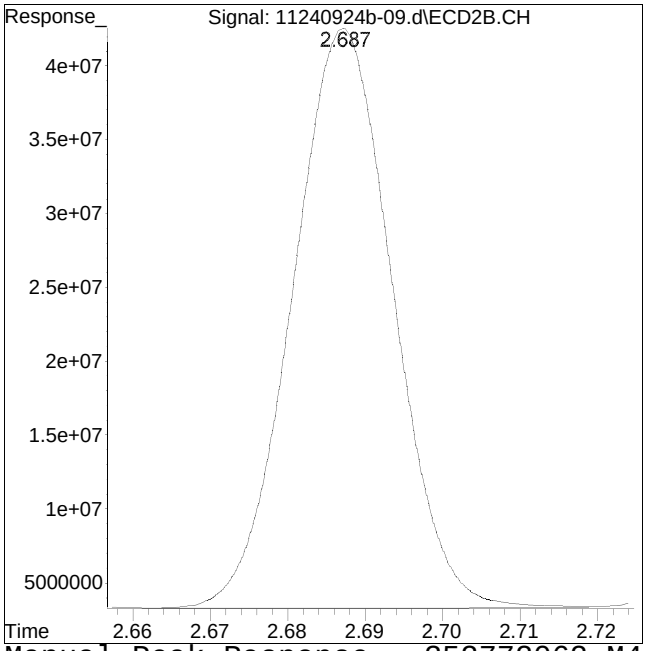
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #45: delta-BHC #2



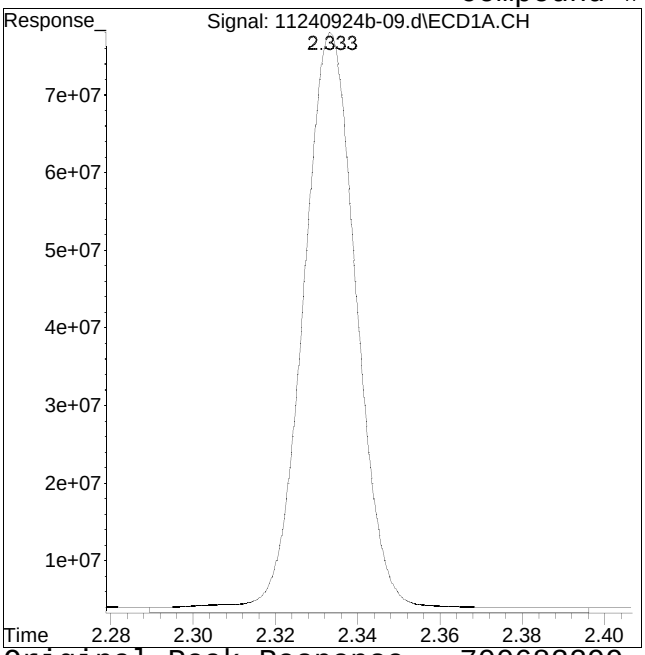


Original Peak Response = 368798516 Manual Peak Response = 352772062 M4
M4 = Poor automated baseline construction.

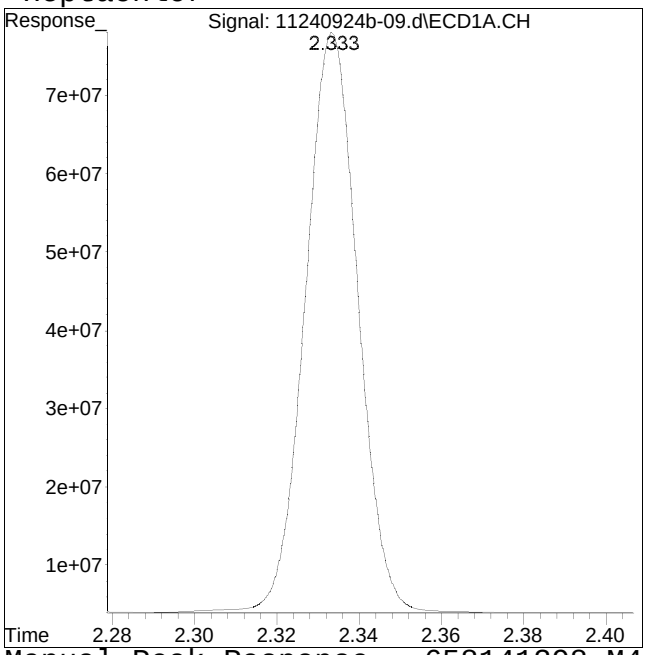
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #8: Heptachlor



Original Peak Response = 700682299



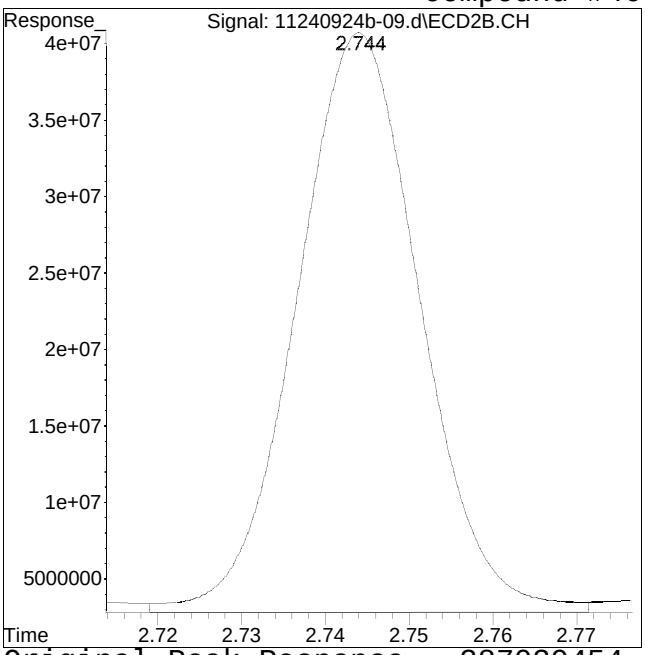
Manual Peak Response = 658141398 M4

M4 = Poor automated baseline construction.

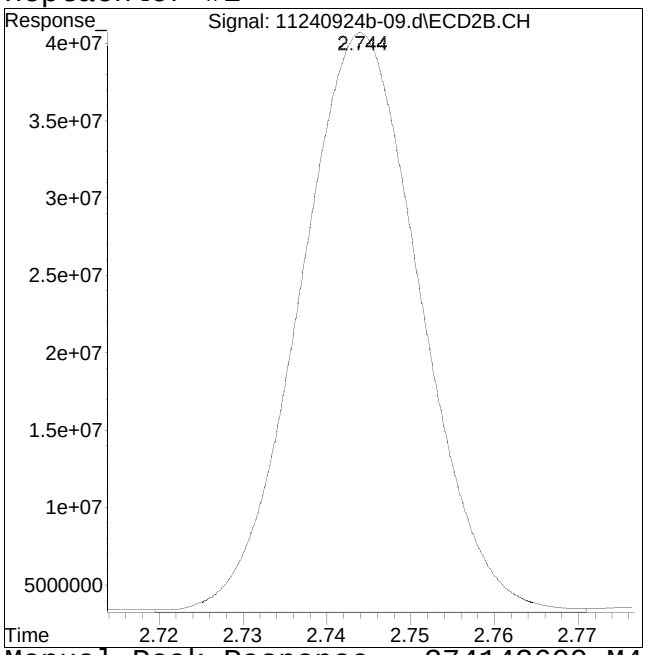
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #46: Heptachlor #2



Original Peak Response = 387039454



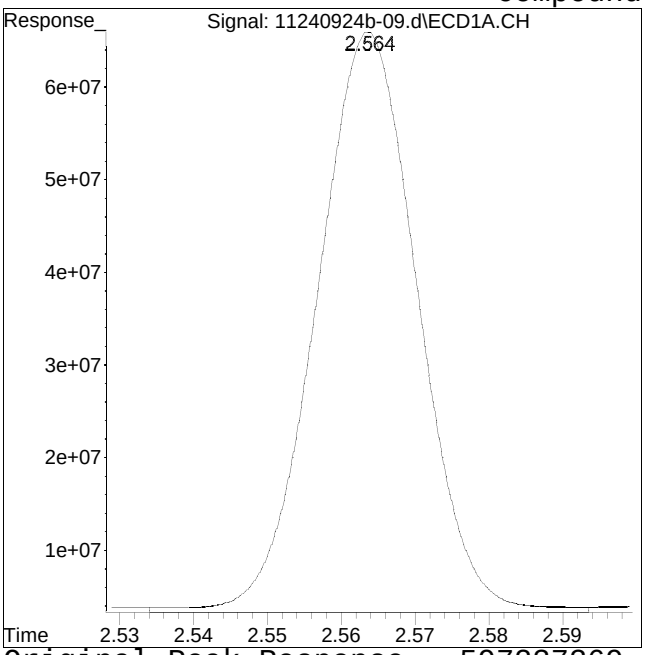
Manual Peak Response = 374143600 M4

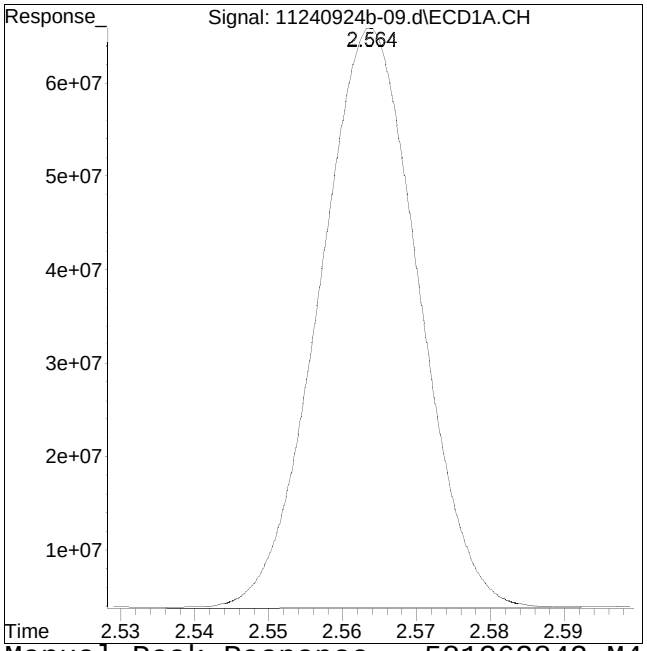
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #9: Aldrin



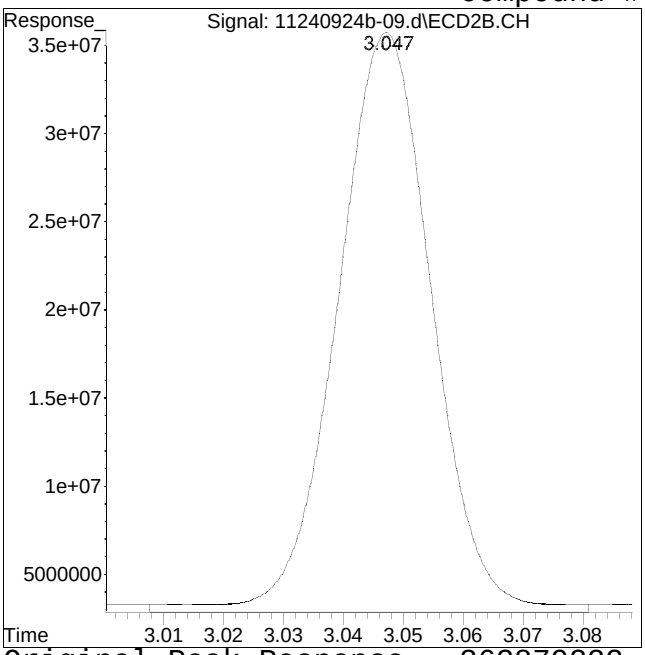


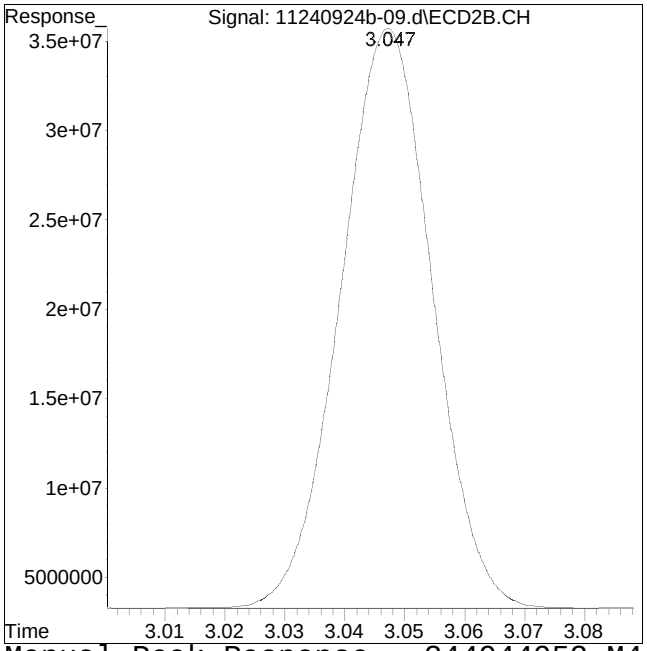
Original Peak Response = 597237369 Manual Peak Response = 581362842 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #47: Aldrin #2



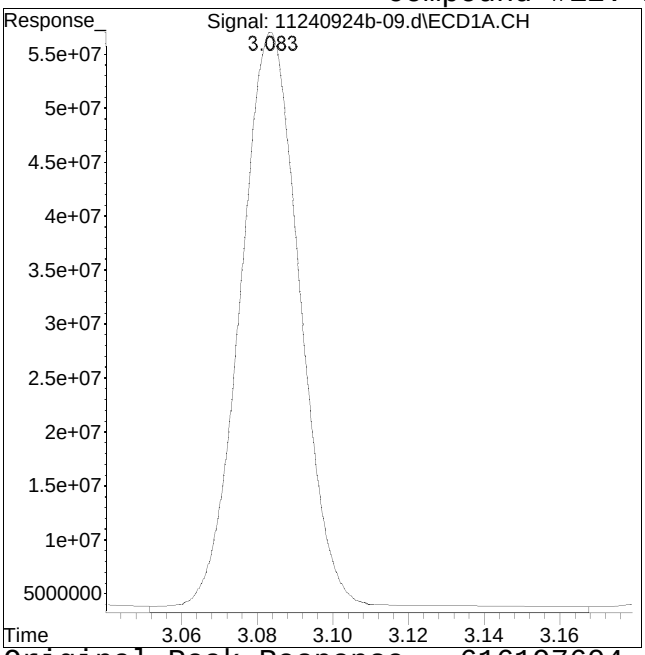


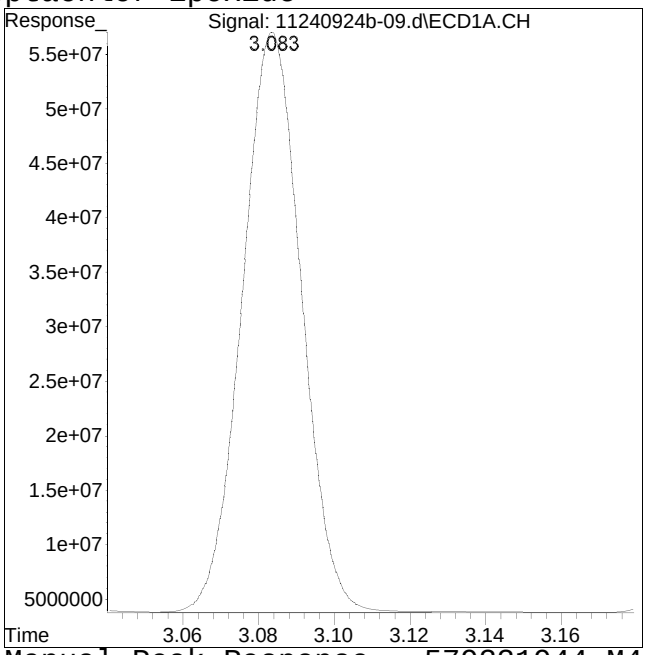
Original Peak Response = 363879222 Manual Peak Response = 344944952 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #12: Heptachlor Epoxide



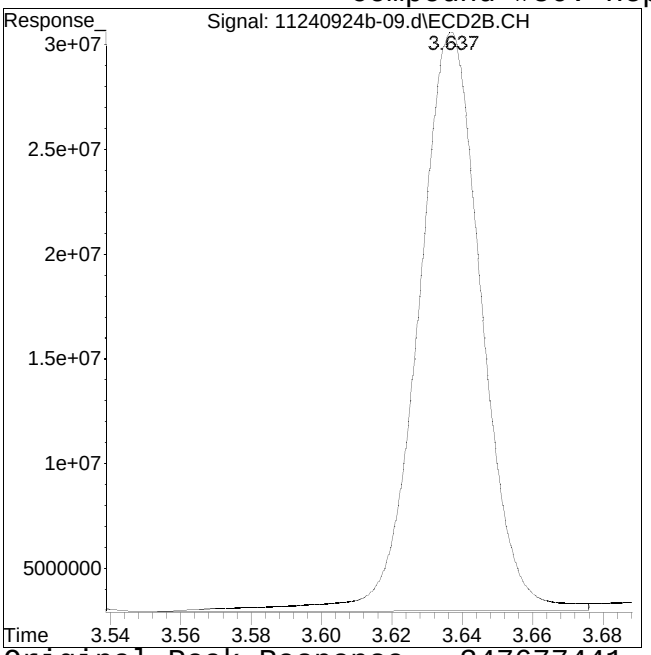


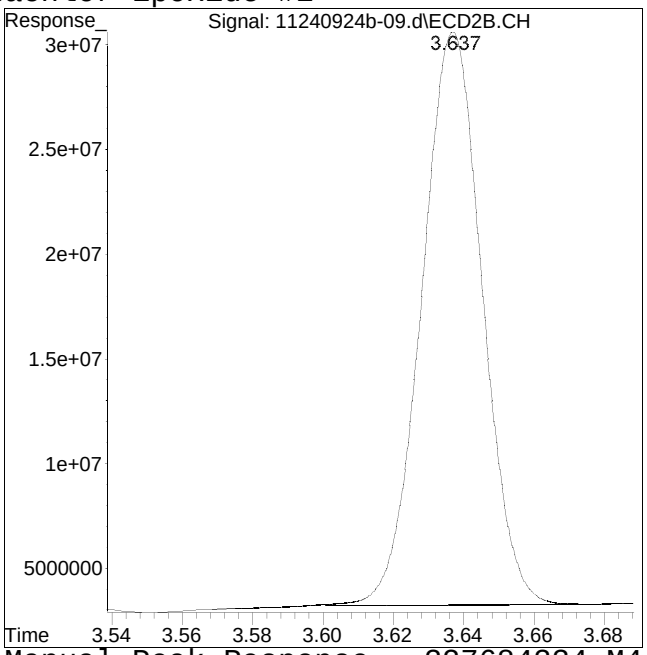
Original Peak Response = 616197604 Manual Peak Response = 579331944 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #50: Heptachlor Epoxide #2



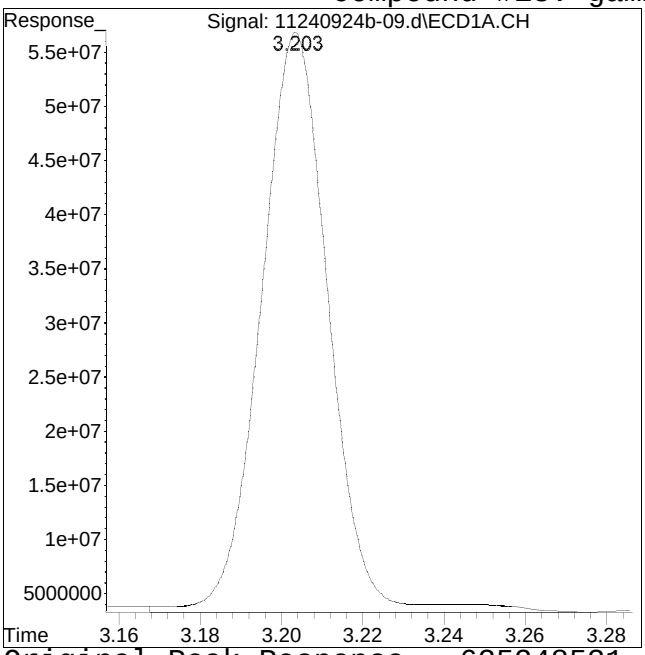


Original Peak Response = 347677441 Manual Peak Response = 327684334 M4
M4 = Poor automated baseline construction.

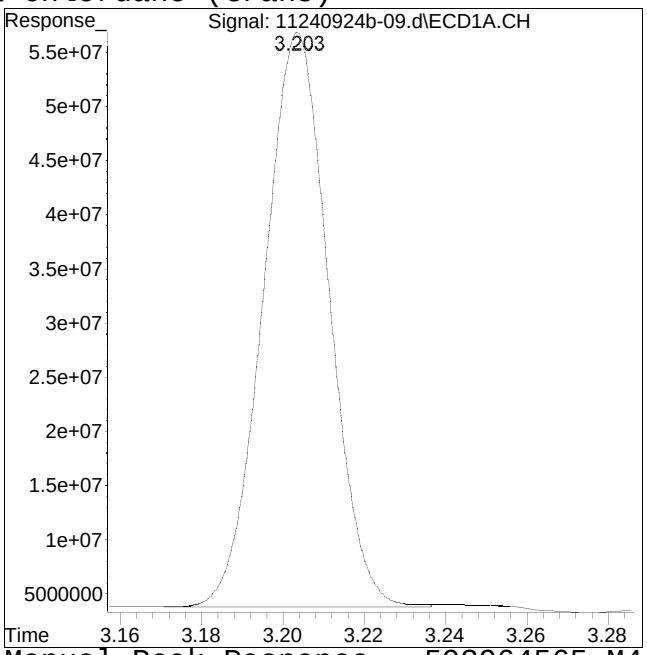
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 625248531



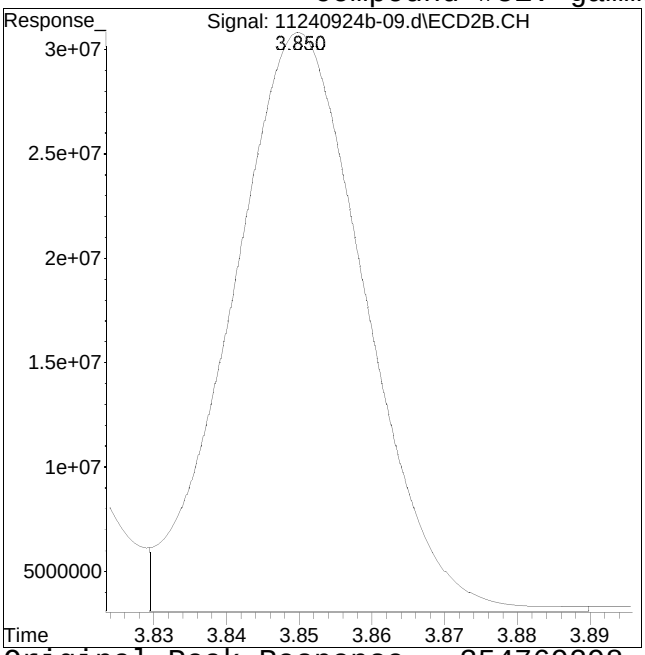
Manual Peak Response = 593964565 M4

M4 = Poor automated baseline construction.

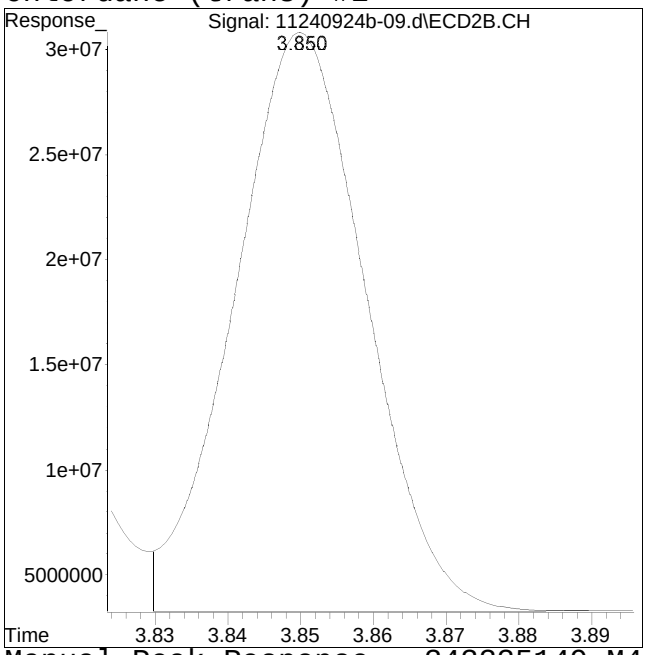
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 354769298



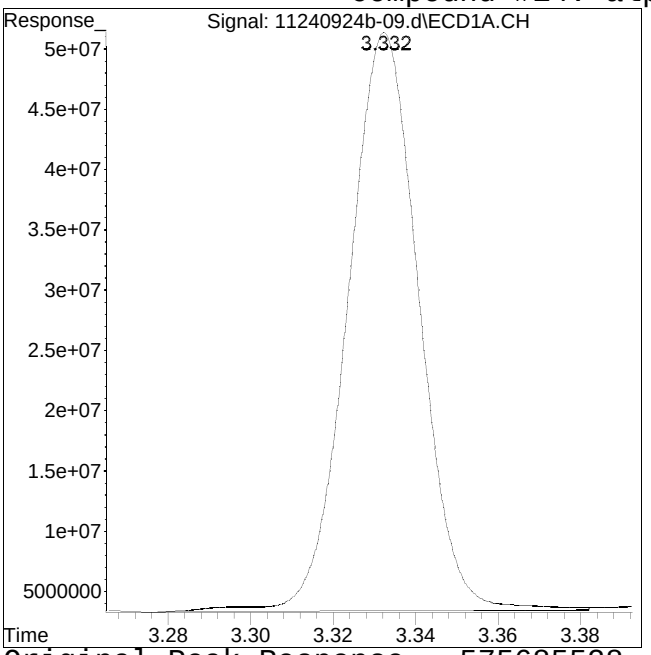
Manual Peak Response = 343335149 M4

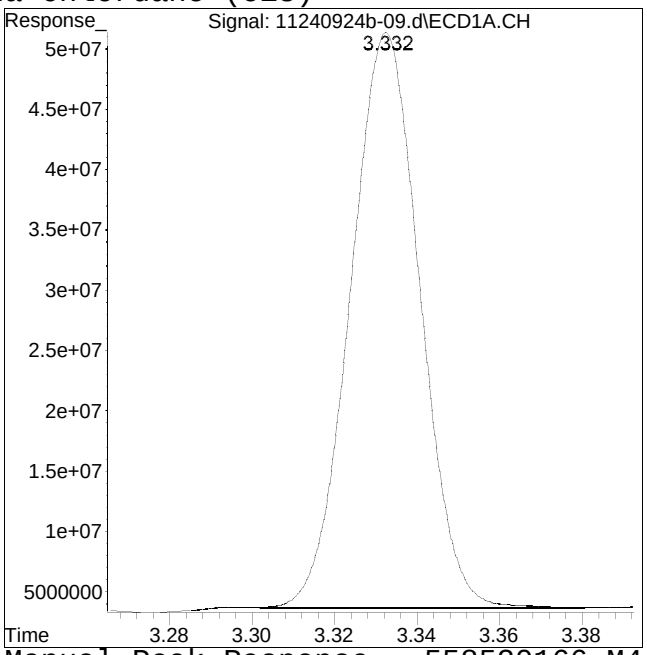
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #14: alpha-Chlordane (cis)



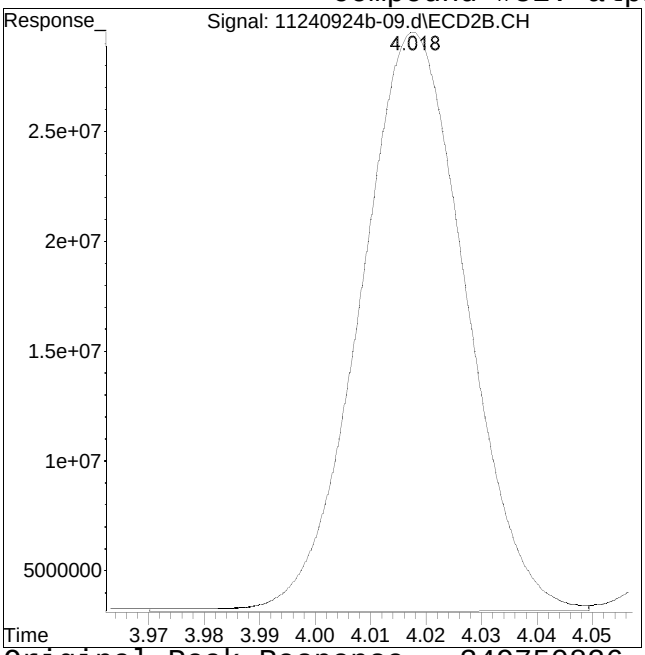


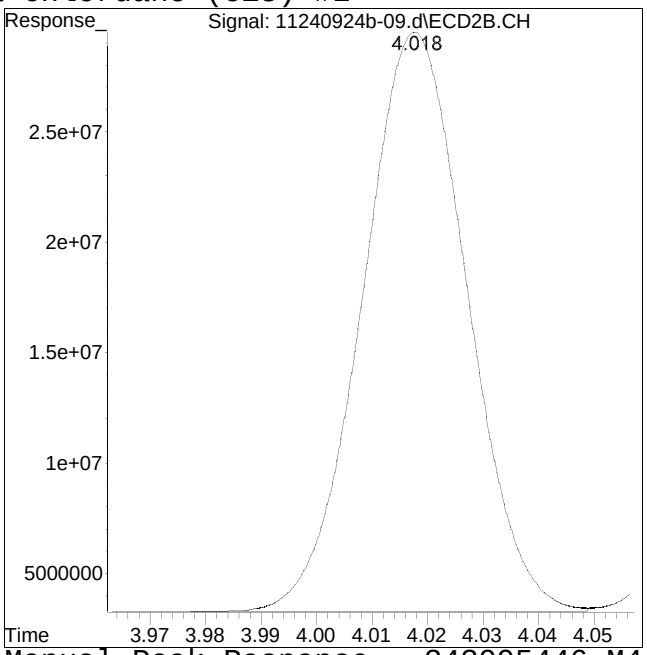
Original Peak Response = 575685528 Manual Peak Response = 558520166 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #52: alpha-Chlordane (cis) #2



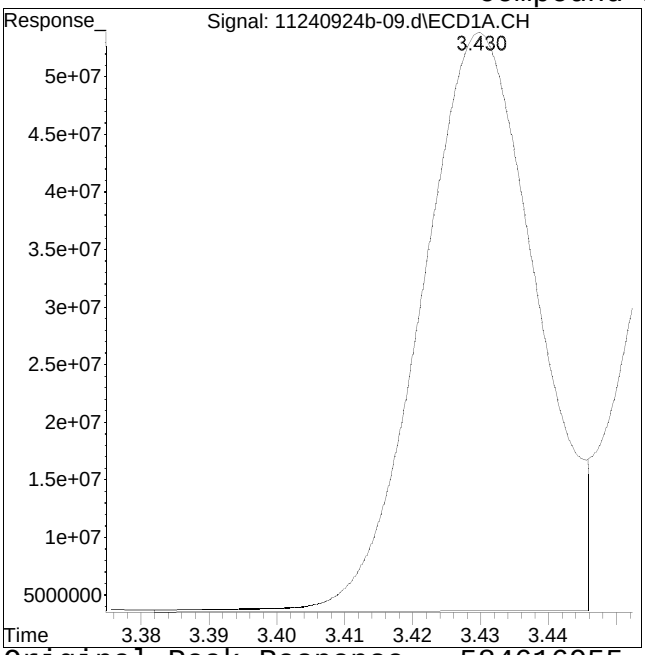


Original Peak Response = 349750826 Manual Peak Response = 343995446 M4
M4 = Poor automated baseline construction.

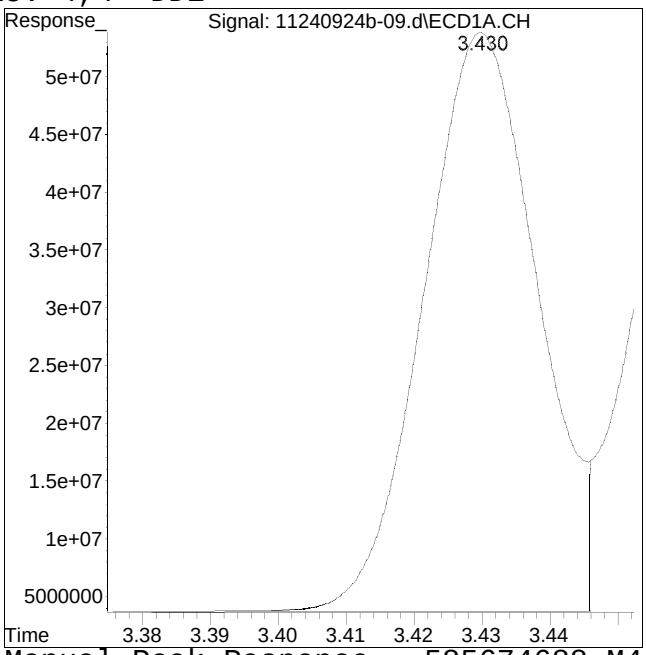
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #15: 4,4'-DDE



Original Peak Response = 584616955



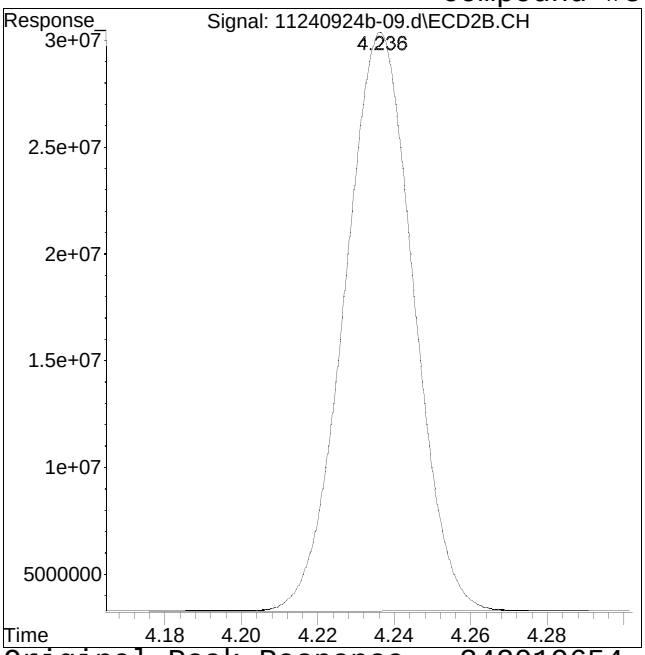
Manual Peak Response = 585674688 M4

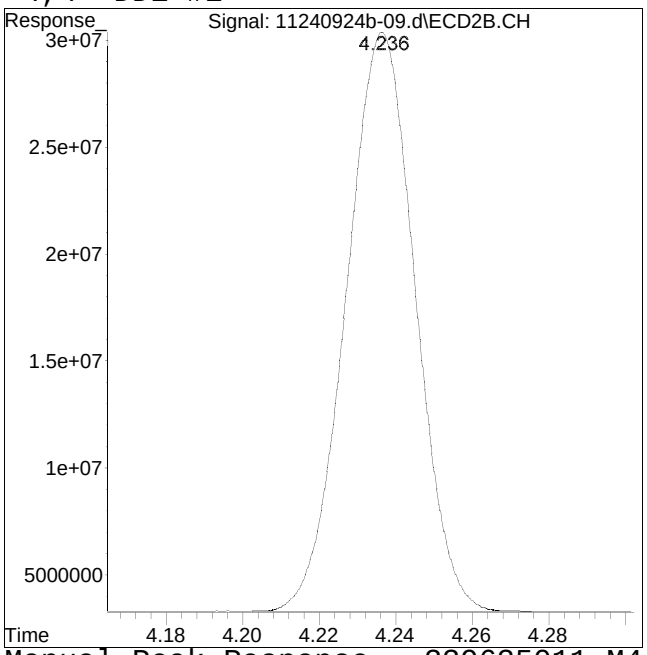
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #53: 4,4'-DDE #2



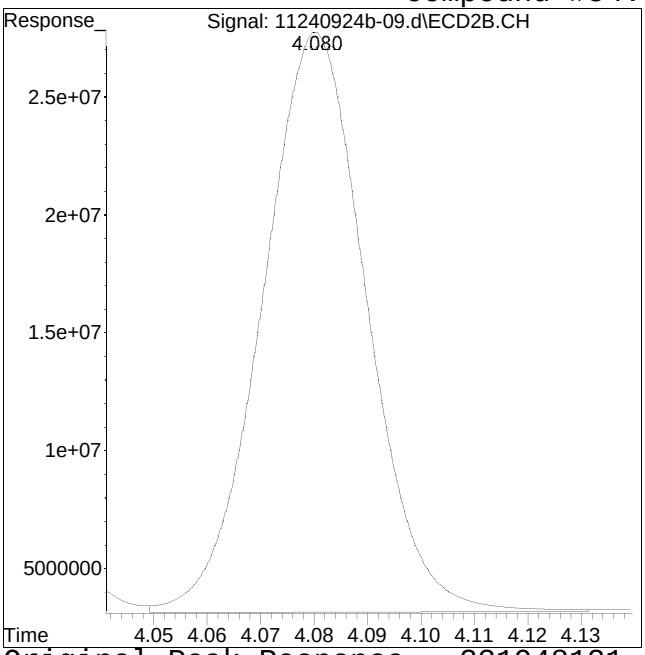


Original Peak Response = 342019654 Manual Peak Response = 339635011 M4
M4 = Poor automated baseline construction.

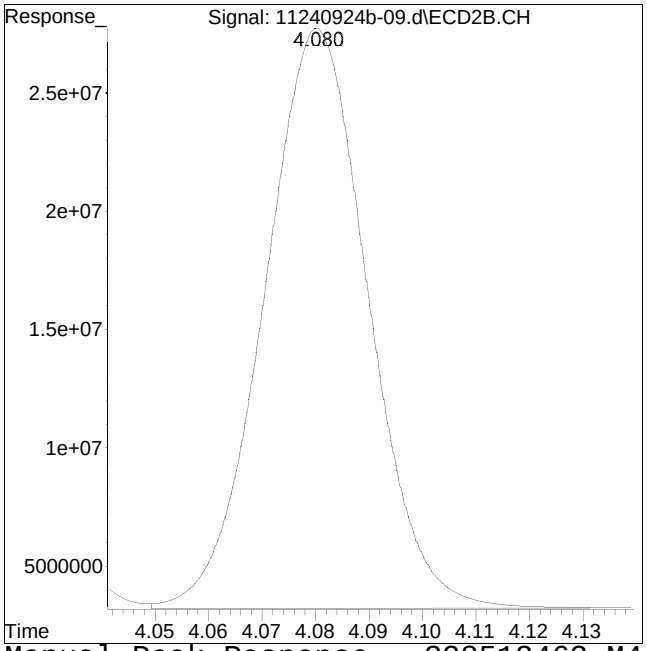
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #54: Endosulfan I #2



Original Peak Response = 331948121



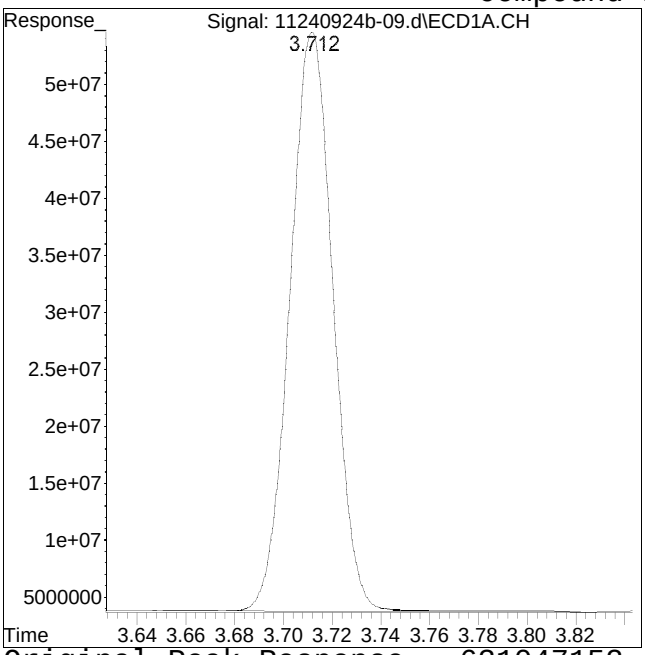
Manual Peak Response = 328512463 M4

M4 = Poor automated baseline construction.

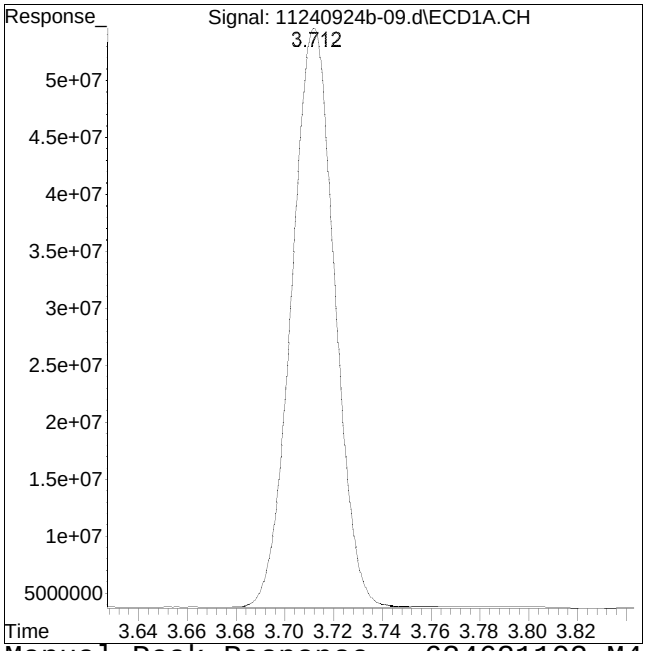
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #17: Dieldrin



Original Peak Response = 631047152



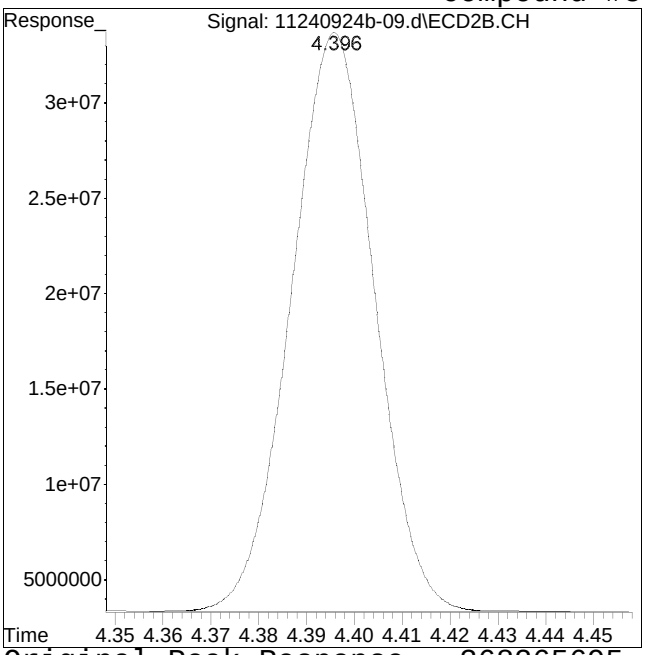
Manual Peak Response = 624621102 M4

M4 = Poor automated baseline construction.

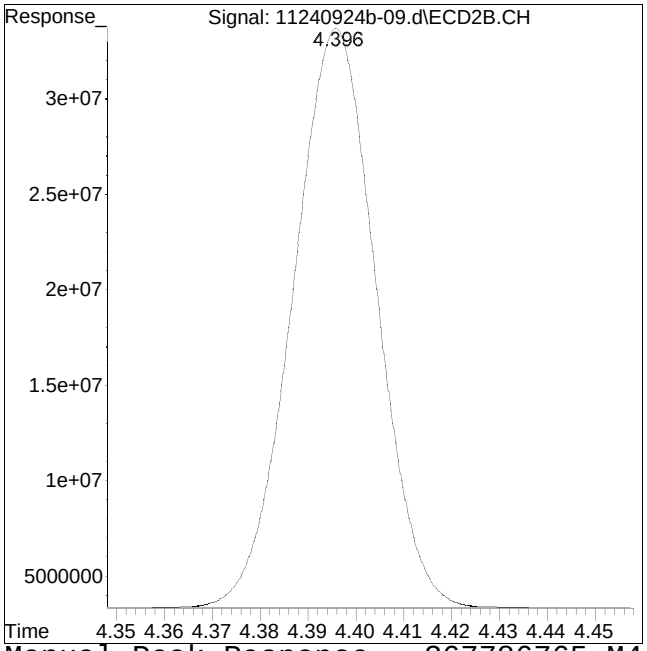
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #55: Dieldrin #2



Original Peak Response = 368265695



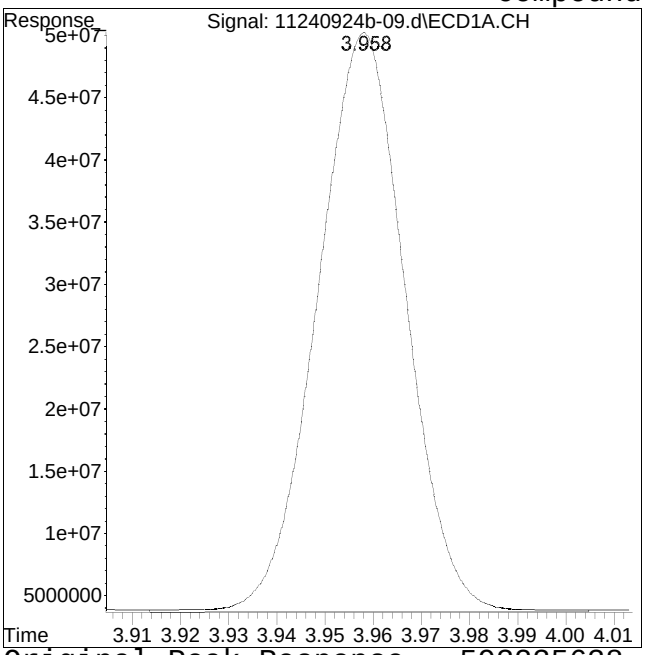
Manual Peak Response = 367786765 M4

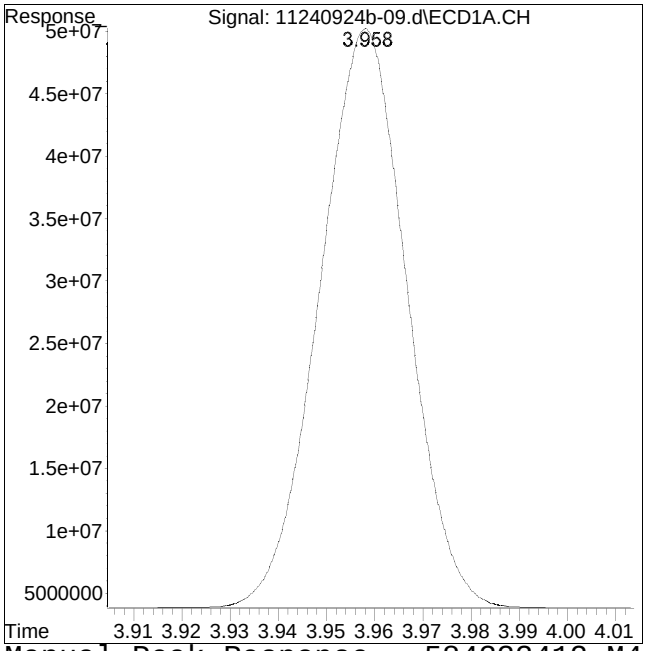
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #18: Endrin



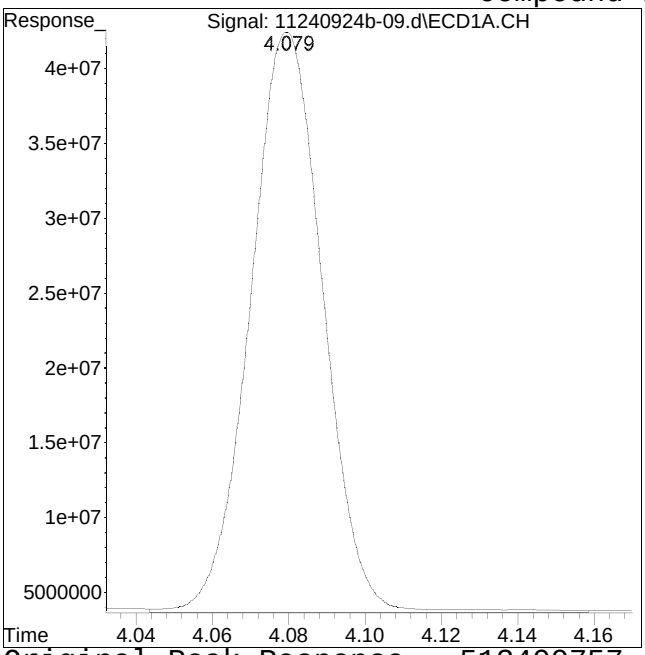


Original Peak Response = 593235638 Manual Peak Response = 584333412 M4
M4 = Poor automated baseline construction.

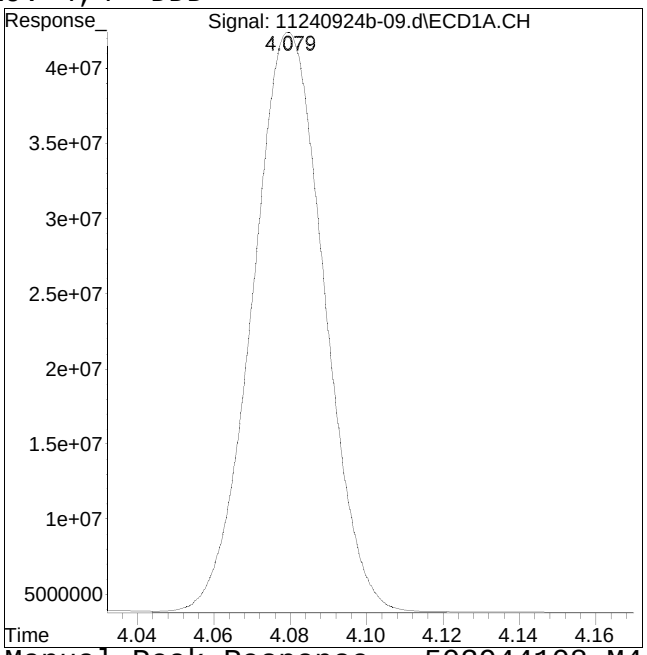
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #19: 4,4'-DDD



Original Peak Response = 513400757



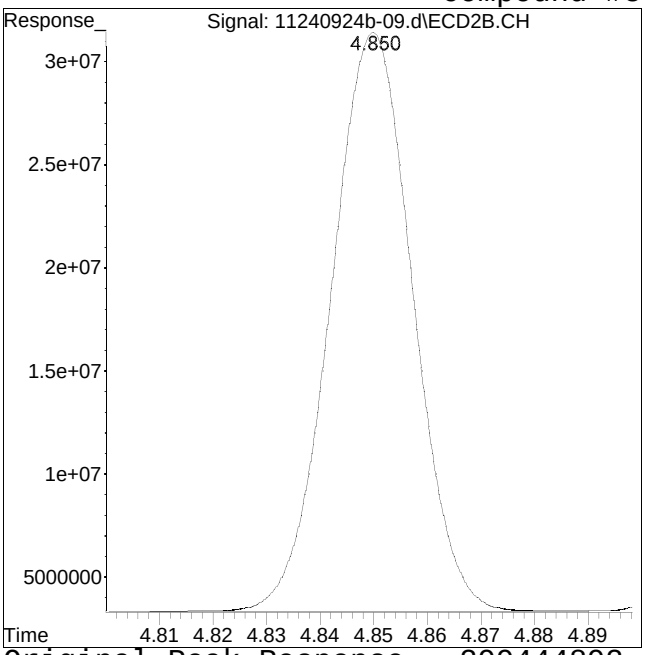
Manual Peak Response = 503944108 M4

M4 = Poor automated baseline construction.

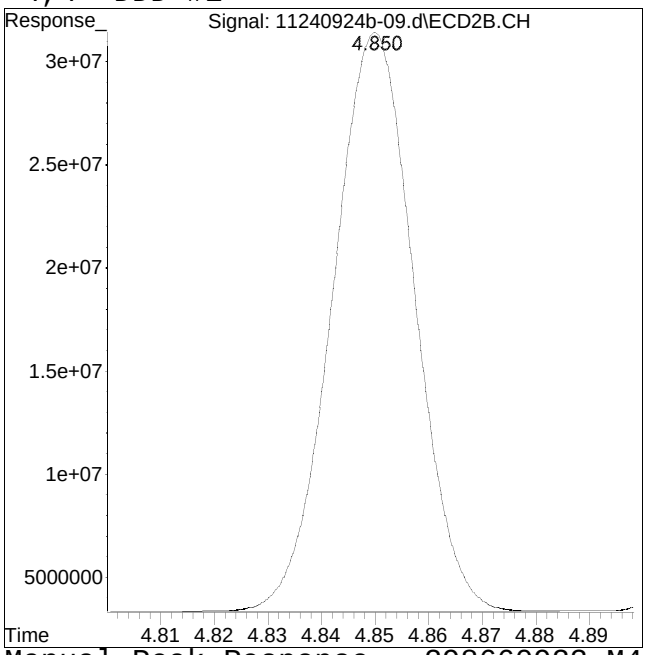
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 299444892



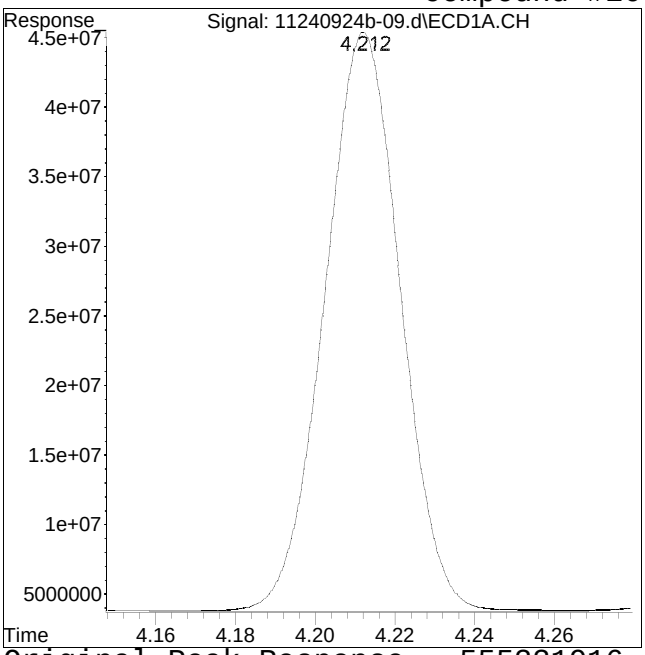
Manual Peak Response = 298660923 M4

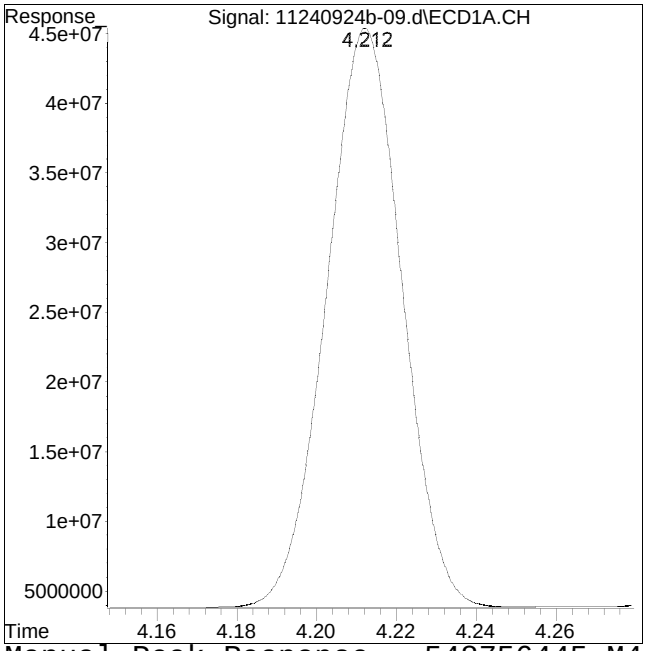
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #20: Endosulfan II



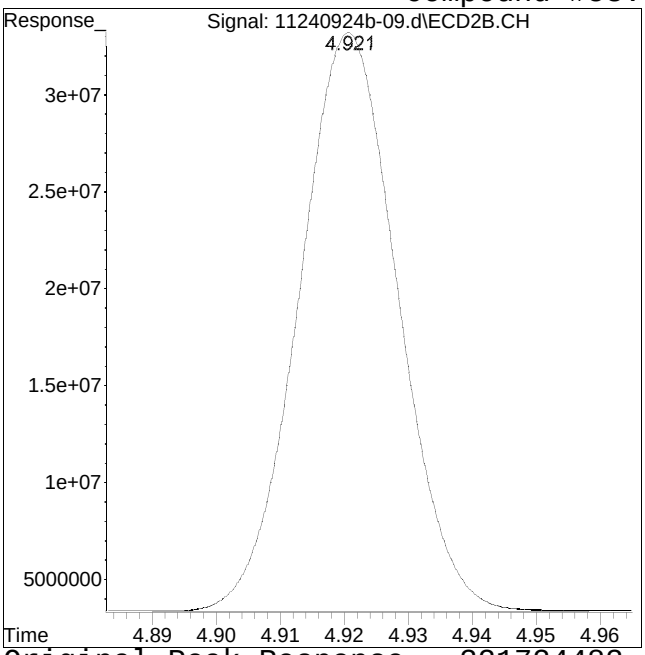


Original Peak Response = 555331916 Manual Peak Response = 548756445 M4
M4 = Poor automated baseline construction.

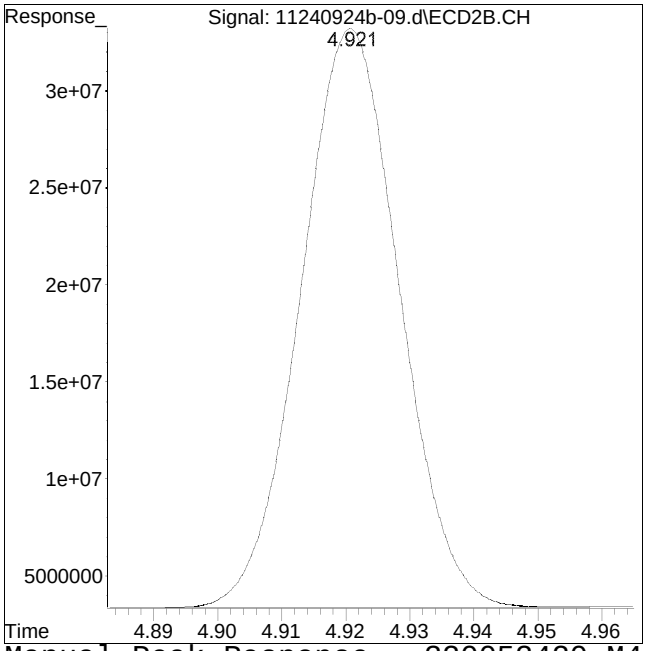
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #58: Endosulfan II #2



Original Peak Response = 321724483



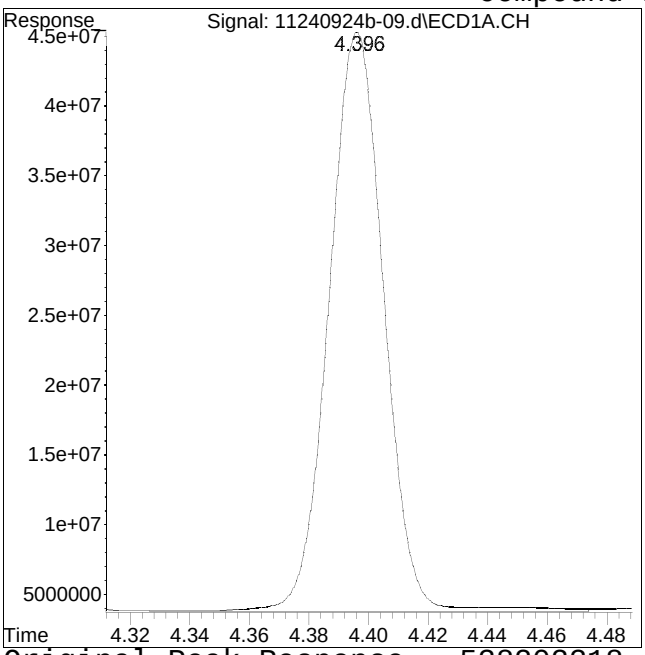
Manual Peak Response = 320053420 M4

M4 = Poor automated baseline construction.

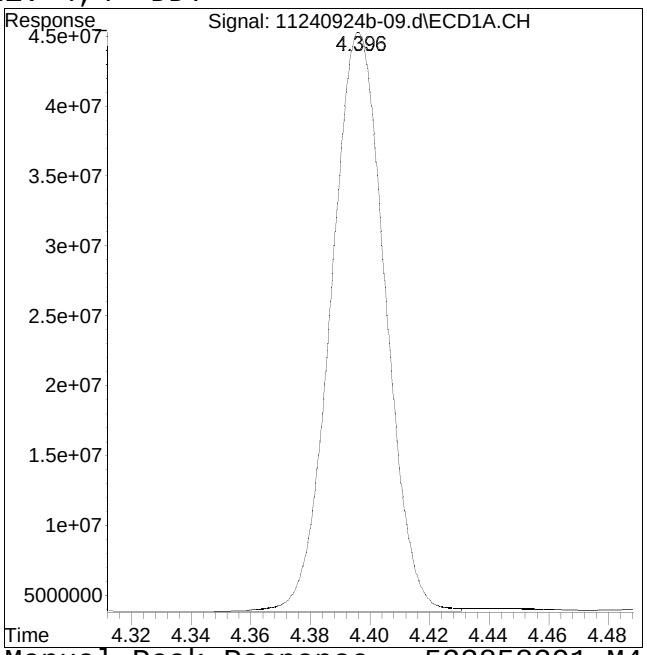
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #21: 4,4'-DDT



Original Peak Response = 538202318



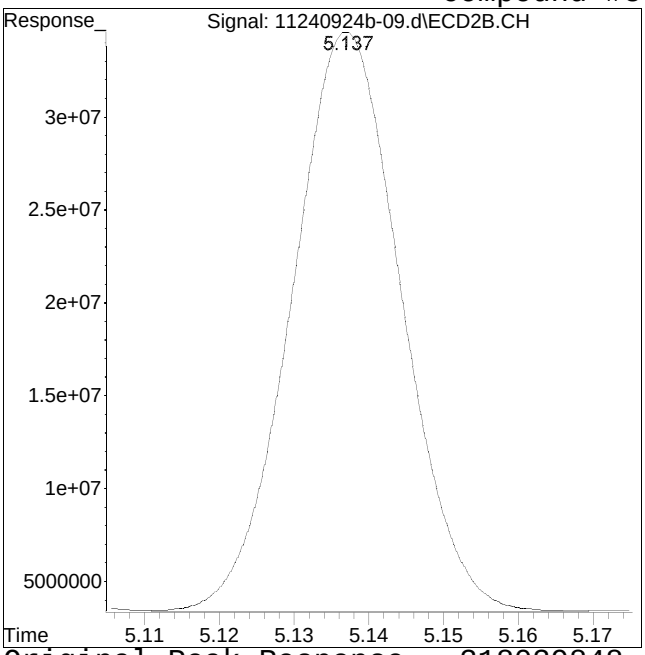
Manual Peak Response = 523858291 M4

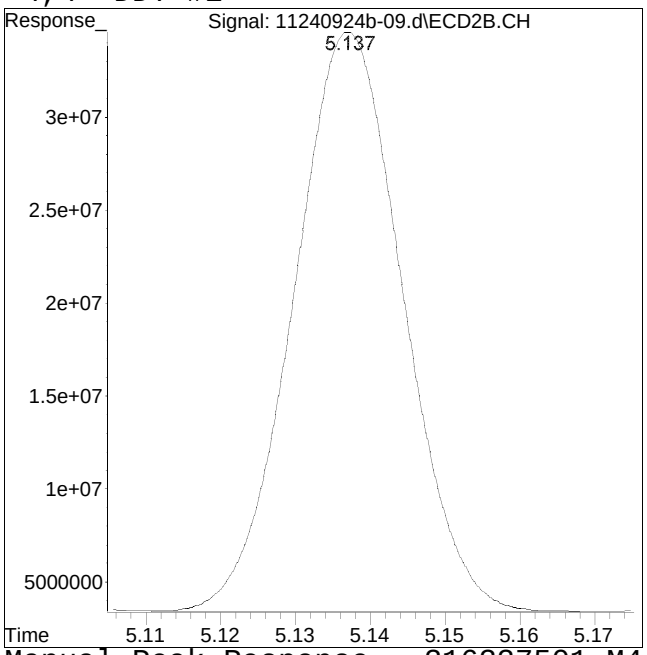
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #59: 4,4'-DDT #2



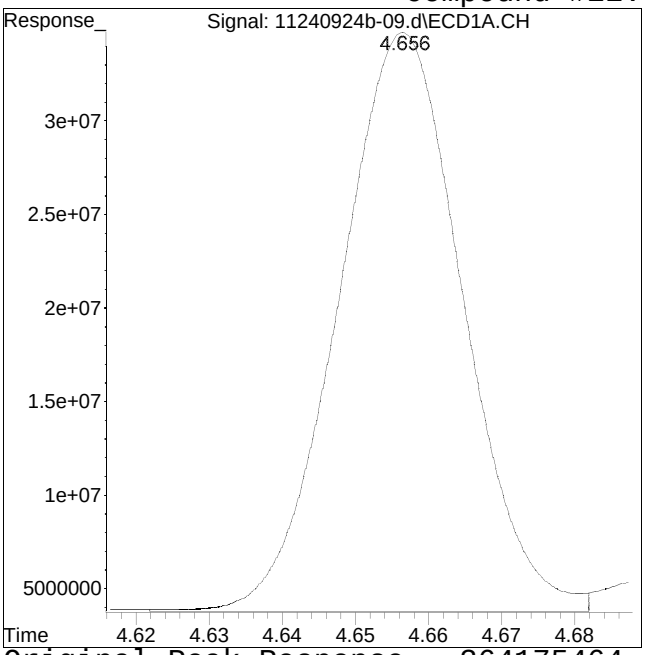


Original Peak Response = 318039848 Manual Peak Response = 316337501 M4
M4 = Poor automated baseline construction.

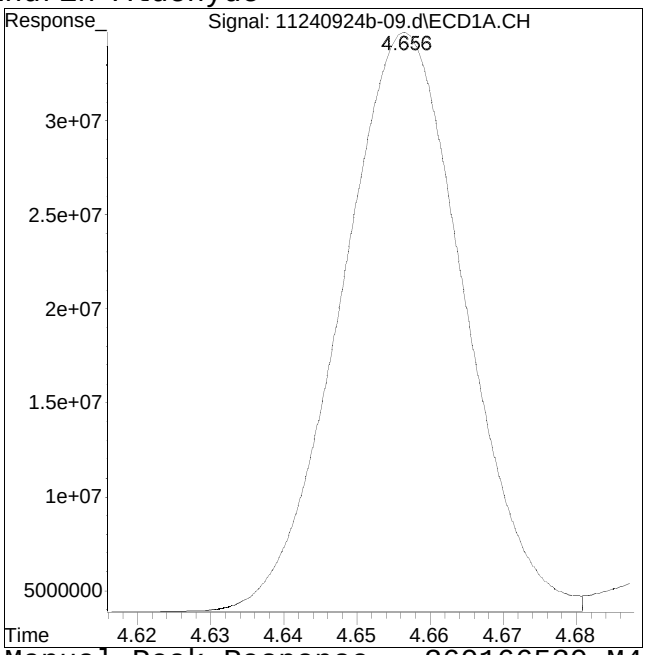
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 364175464



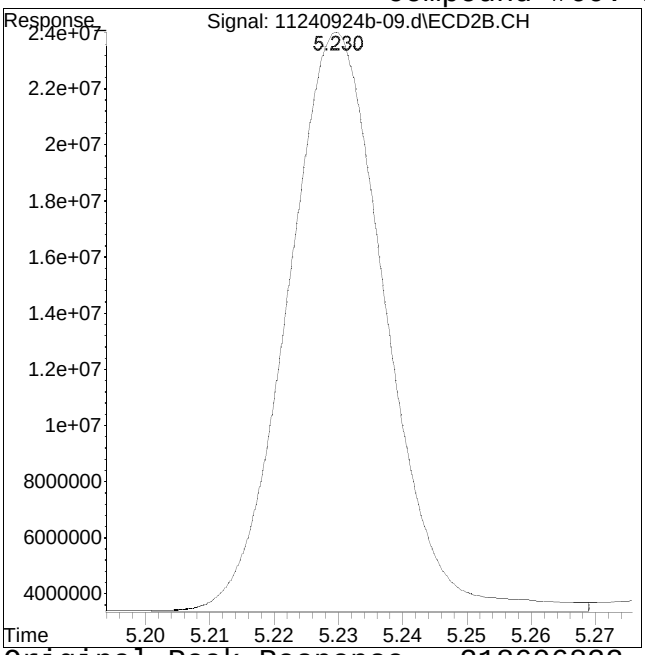
Manual Peak Response = 360166530 M4

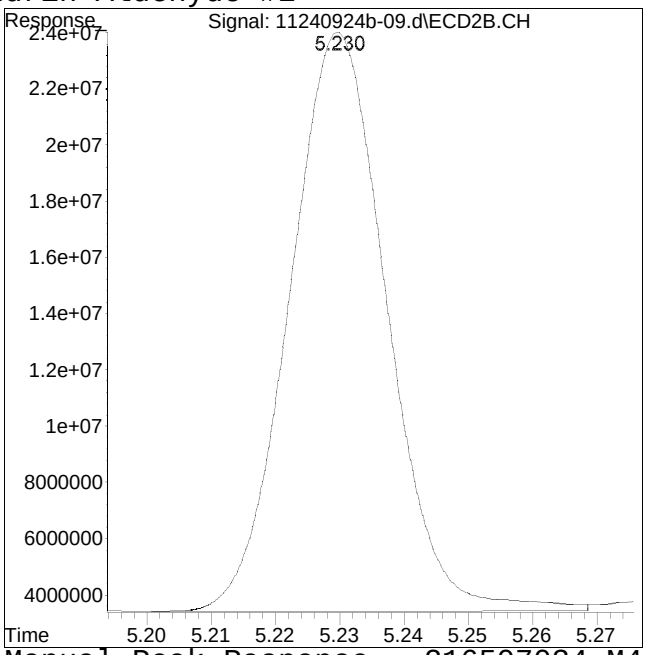
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #60: Endrin Aldehyde #2



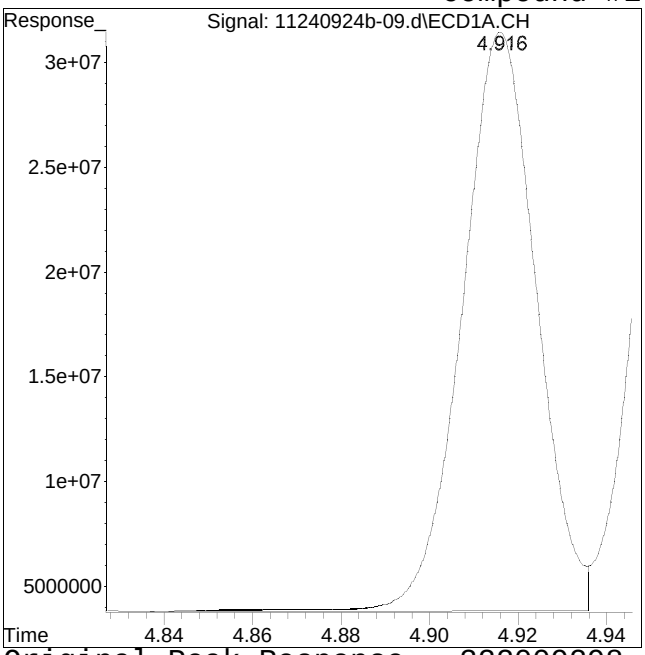


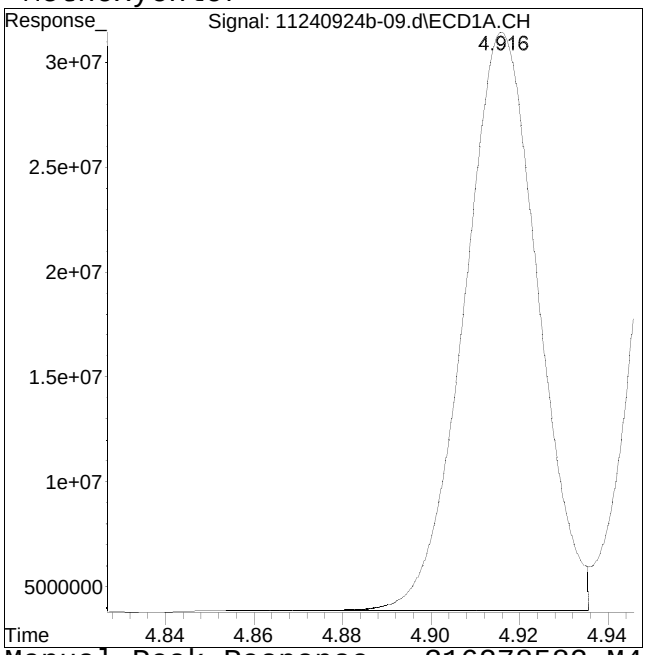
Original Peak Response = 218606832 Manual Peak Response = 216507034 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #23: Methoxychlor



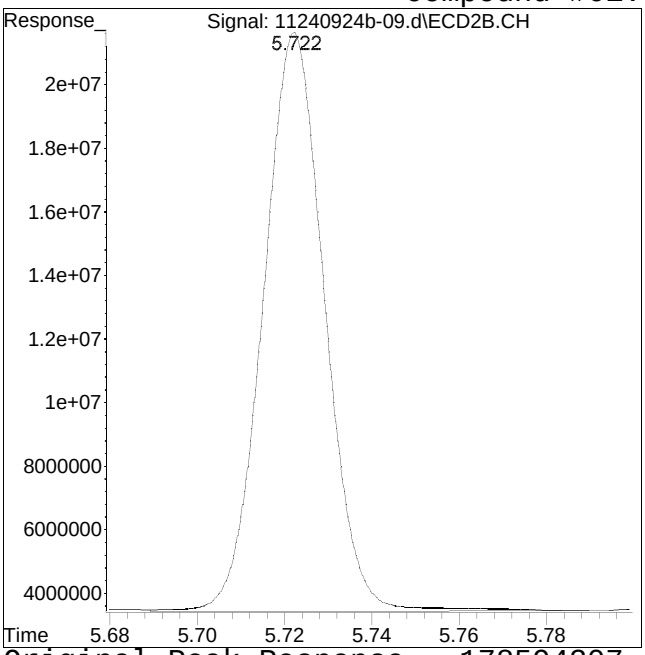


Original Peak Response = 322009298 Manual Peak Response = 316278582 M4
M4 = Poor automated baseline construction.

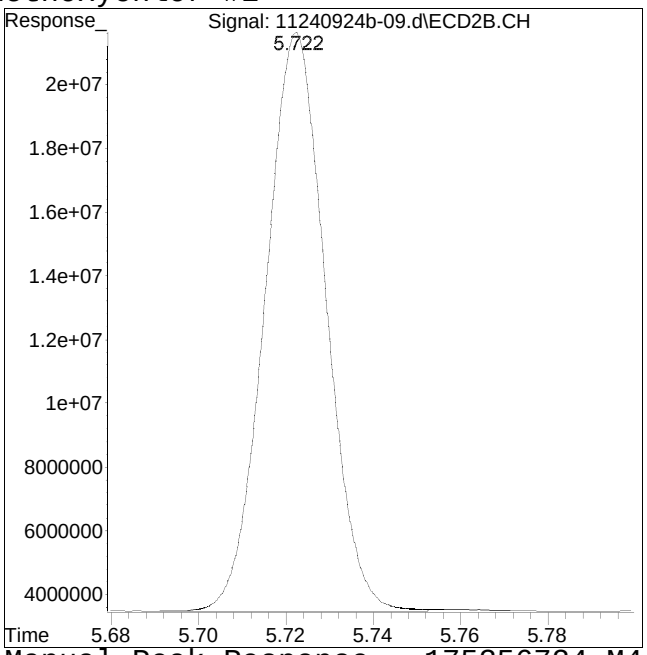
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #61: Methoxychlor #2



Original Peak Response = 178594307



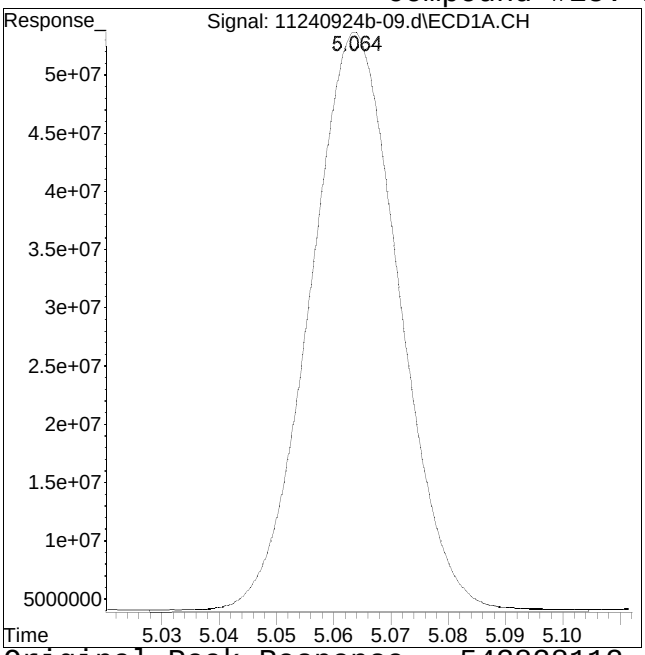
Manual Peak Response = 175356724 M4

M4 = Poor automated baseline construction.

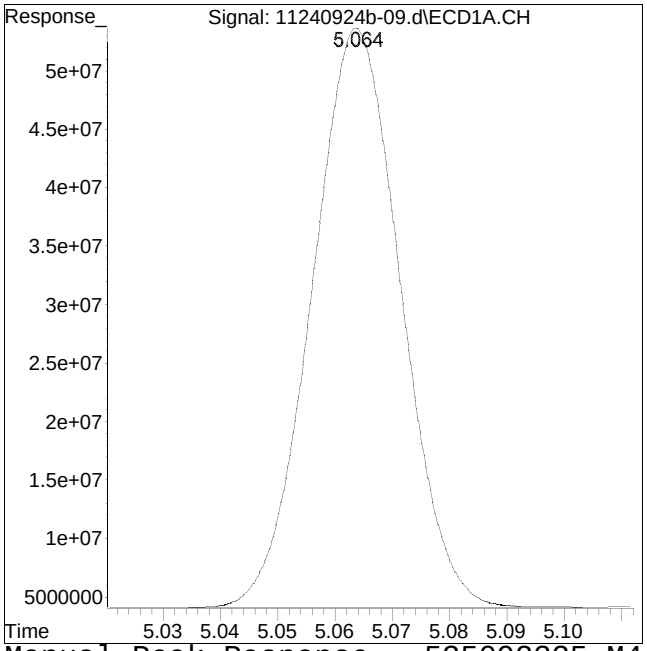
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 543828112



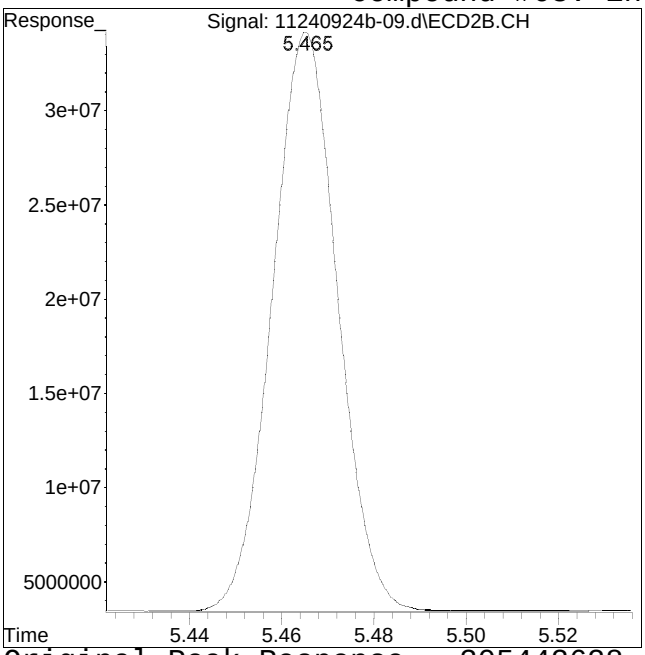
Manual Peak Response = 535092335 M4

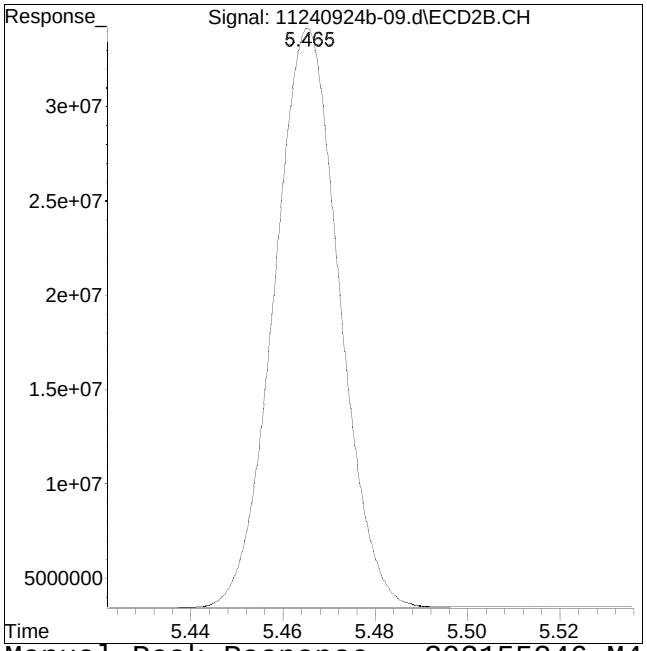
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #63: Endosulfan Sulfate #2



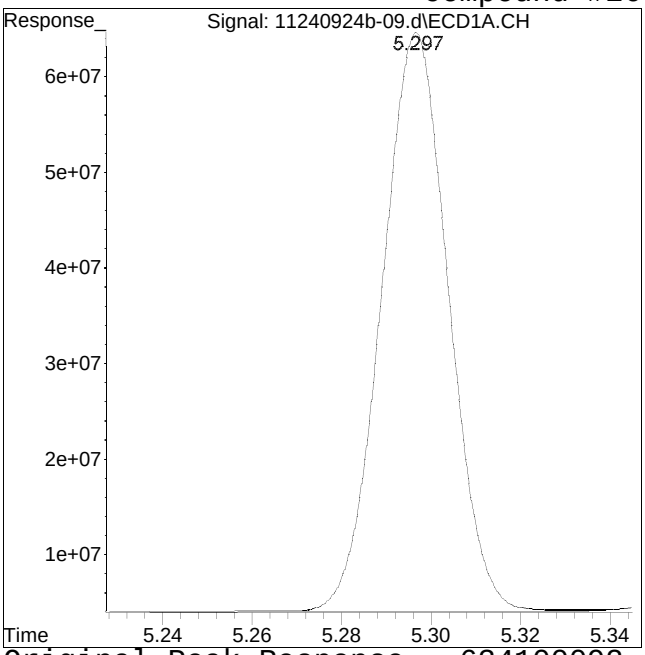


Original Peak Response = 305442628 Manual Peak Response = 302155246 M4
M4 = Poor automated baseline construction.

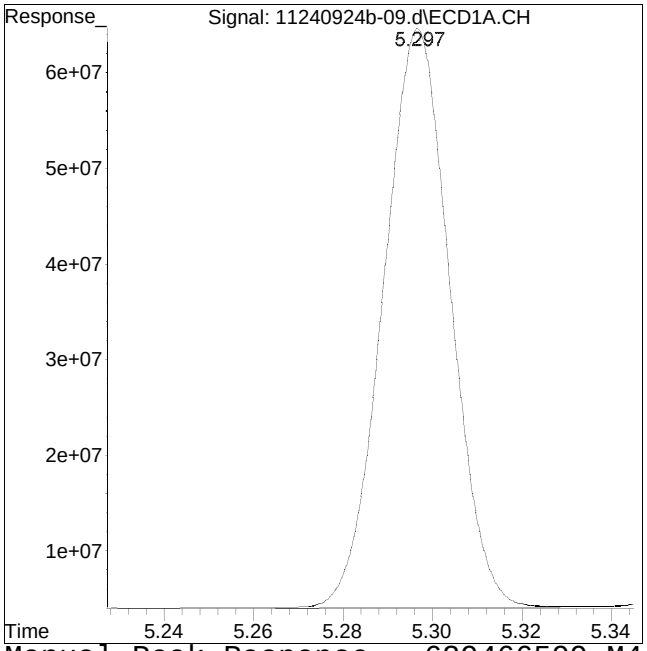
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #26: Endrin Ketone



Original Peak Response = 634100092



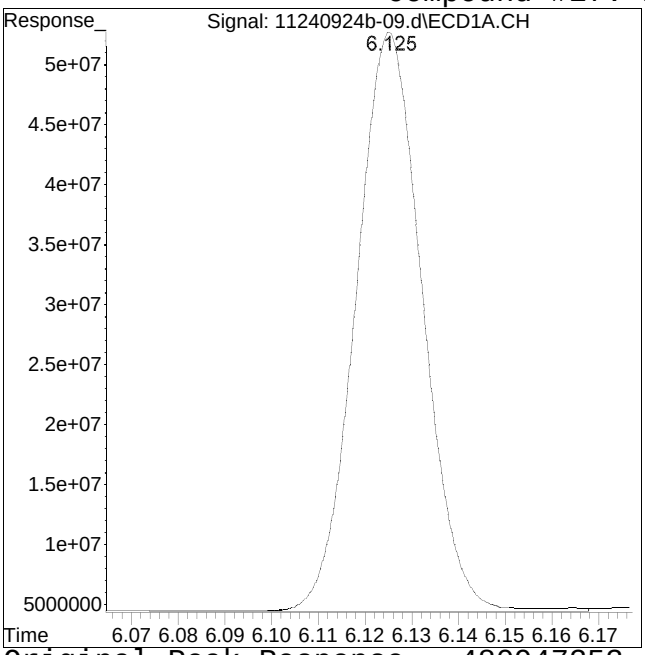
Manual Peak Response = 629466599 M4

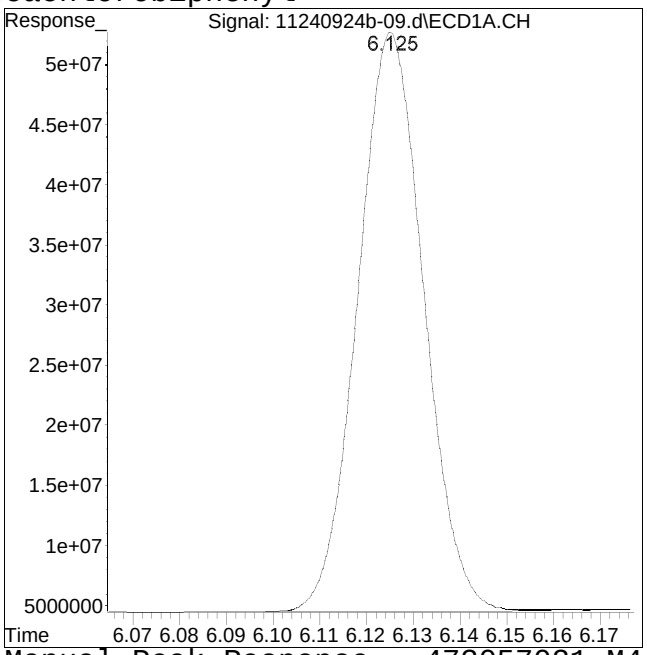
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



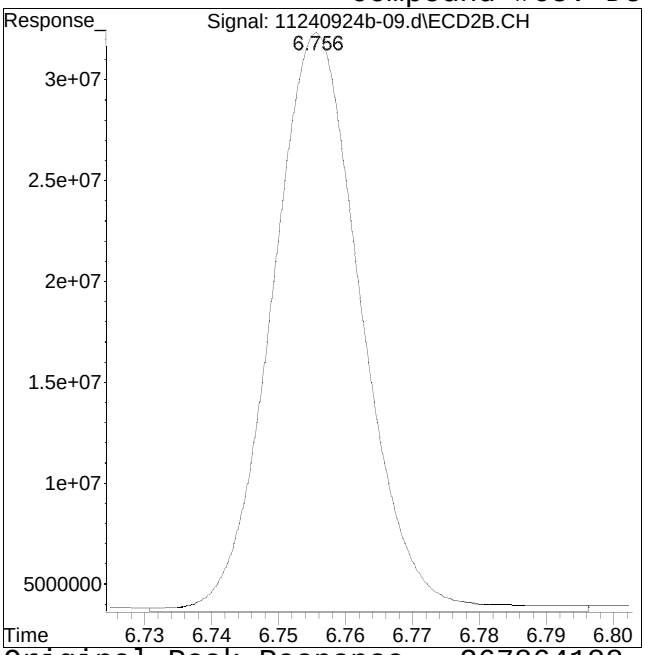


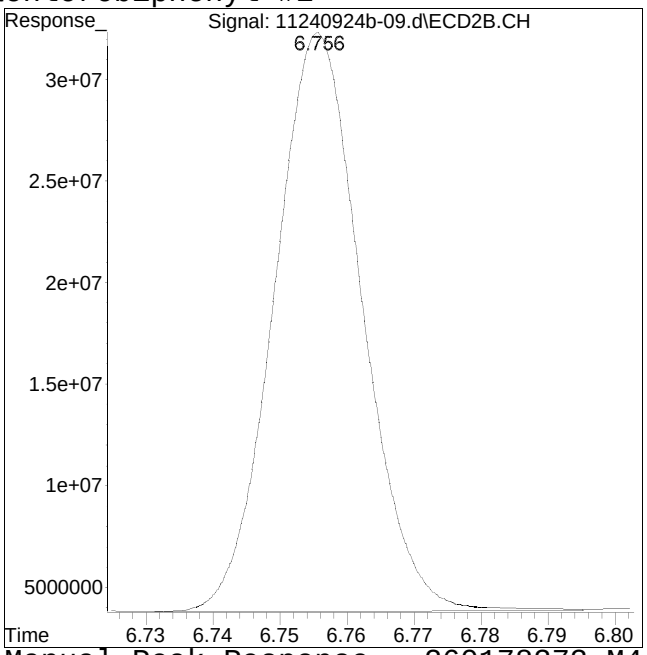
Original Peak Response = 480947353 Manual Peak Response = 473057021 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-09.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 22:44 Instrument : Pest 11
Sample : WG1975489-3,42,, Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 267864188 Manual Peak Response = 260178373 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:19
Operator : PEST11:jag
Sample : WG1975489-4,42,, ms
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:41 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.191	1.264	293.2E6	185.4E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery = 101.42%		
	Standard Area 1 : #2 = 192001596				Recovery = 96.54%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.519	1.711	426.9E6	265.2E6	35.028M4	32.125M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 70.06%		64.25%	
27) s	Decachlorobi	6.125	6.755	456.0E6	241.8E6	33.429M4	30.774M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 66.86%		61.55%	
Target Compounds							
4) t	alpha-BHC	1.813	2.101	663.4E6	404.2E6	38.724M4	33.663M4
5) t	gamma-BHC (l	2.005	2.370	616.3E6	368.0E6	37.656M4	32.247M4
6) t	beta-BHC	2.059	2.435	267.1E6	161.8E6	36.267M4	34.403M4
7) t	delta-BHC	2.180	2.687	546.7E6	310.3E6	33.921M4	27.482M4
8) t	Heptachlor	2.334	2.744	617.4E6	347.3E6	39.846M4	29.325M4
9) t	Aldrin	2.564	3.047	539.6E6	319.9E6	37.304M4	30.075M4
12) t	Heptachlor E	3.084	3.636	535.0E6	307.8E6	38.477M4	29.124M4
13) t	gamma-Chlord	3.204	3.850	545.9E6	314.7E6	43.213M4	32.363M4
14) t	alpha-Chlord	3.333	4.018	506.4E6	313.6E6	35.500M4	29.251M4
15) t	4,4'-DDE	3.430	4.236	525.9E6	305.0E6	37.629M4	30.639M4
16) t	Endosulfan I	3.461	4.080	507.5E6	298.4E6	38.763M4	30.220M4
17) t	Dieldrin	3.712	4.395	570.5E6	333.7E6	42.844M4	33.911M4
18) t	Endrin	3.958	4.710	544.8E6	313.1E6	40.291	31.358M4
19) t	4,4'-DDD	4.080	4.850	454.2E6	266.1E6	41.760M4	33.117M4
20) t	Endosulfan I	4.212	4.921	500.8E6	289.2E6	40.587M4	32.142M4
21) t	4,4'-DDT	4.396	5.137	498.1E6	286.4E6	40.118M4	30.897M4

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:19
Operator : PEST11:jag
Sample : WG1975489-4,42,, ms
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:41 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.656	5.230	320.4E6	189.8E6	30.812M4	27.237M4
23) t Methoxychlor	4.916	5.722	293.3E6	162.2E6	42.244M4	31.049M4
25) t Endosulfan S	5.064	5.465	484.2E6	271.4E6	40.887M4	30.525M4
26) t Endrin Keton	5.296	5.883	573.6E6	326.7E6	41.331M4	34.954M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

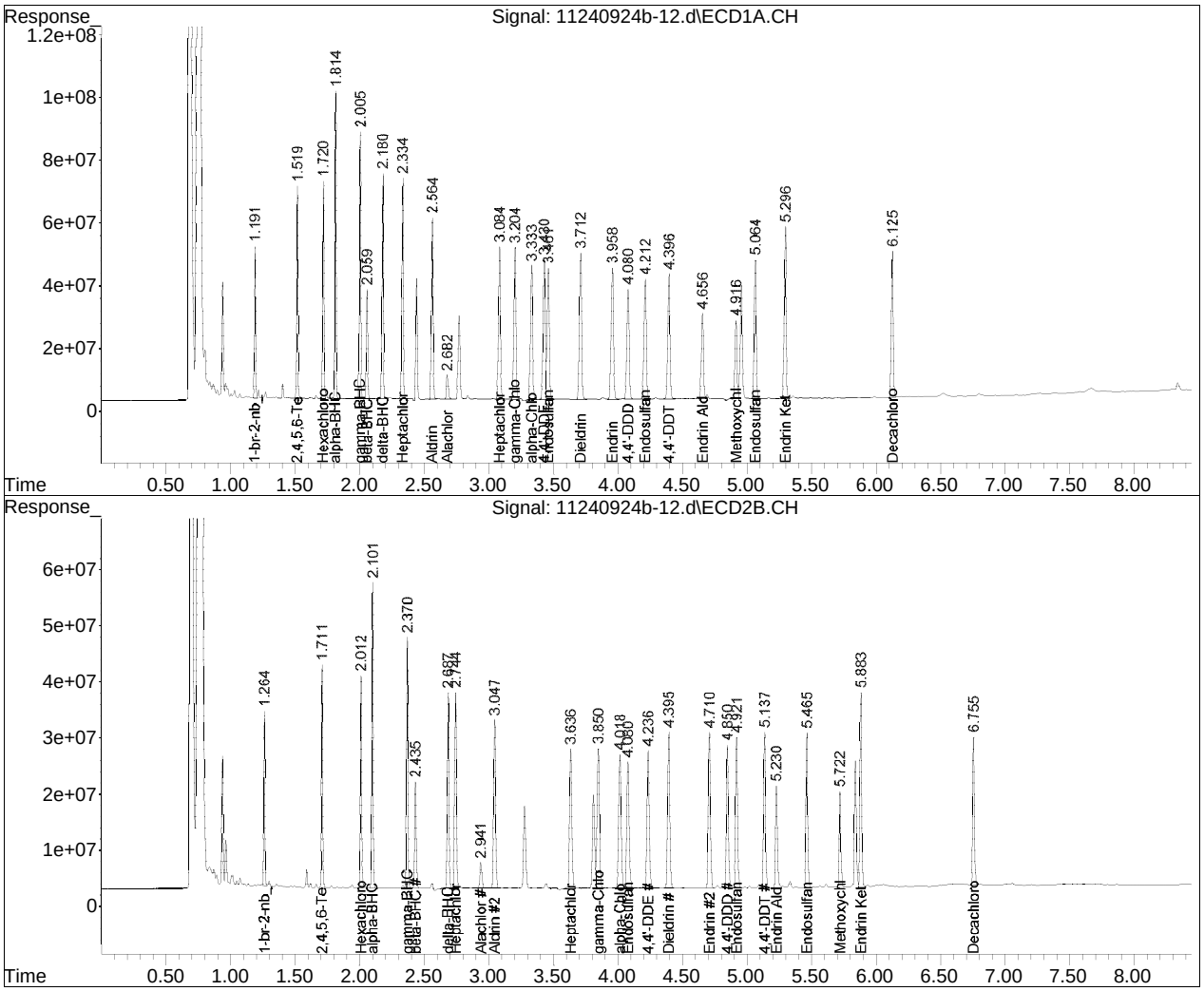
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240924B\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:19
Operator : PEST11:jag
Sample : WG1975489-4,42,, ms
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:41 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

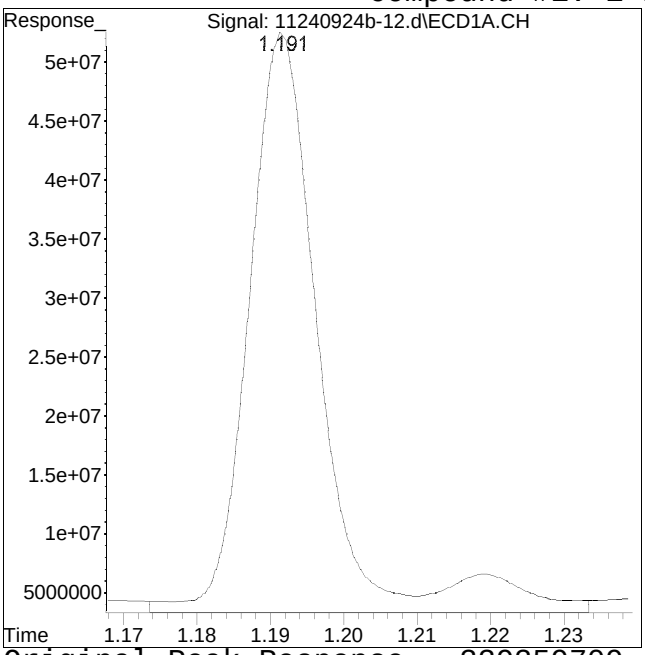
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

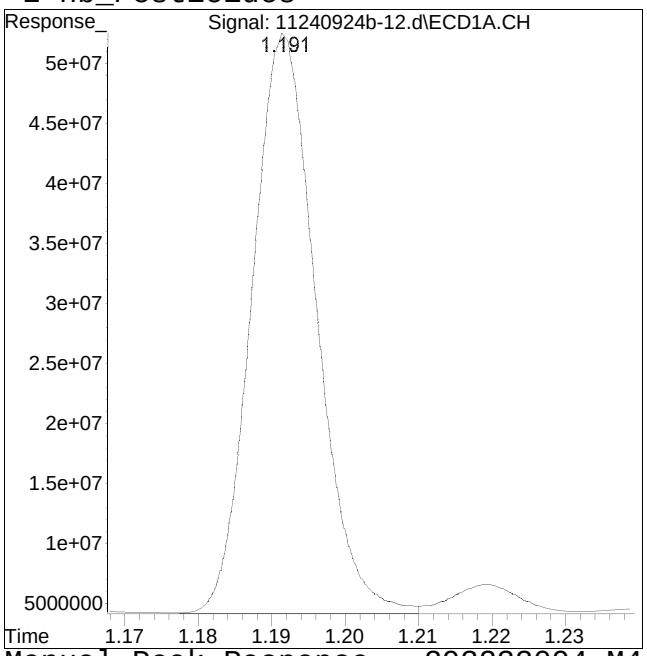


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



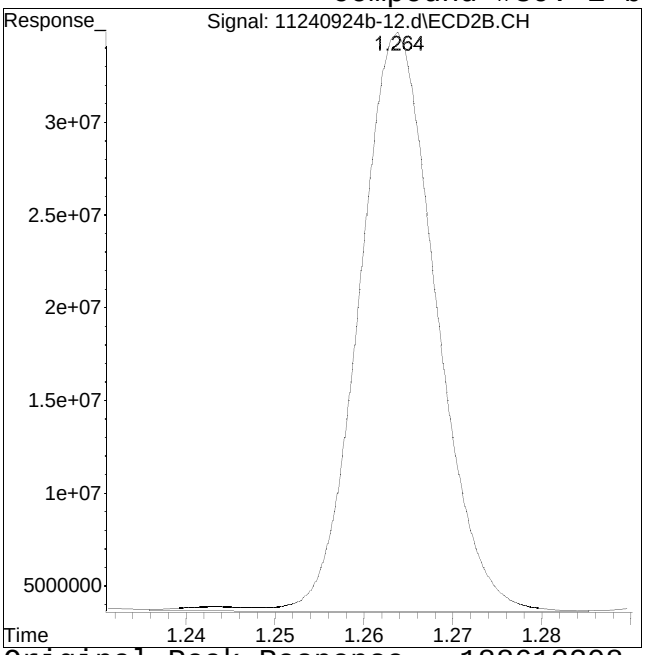


Original Peak Response = 339359709 Manual Peak Response = 293233094 M4
M4 = Poor automated baseline construction.

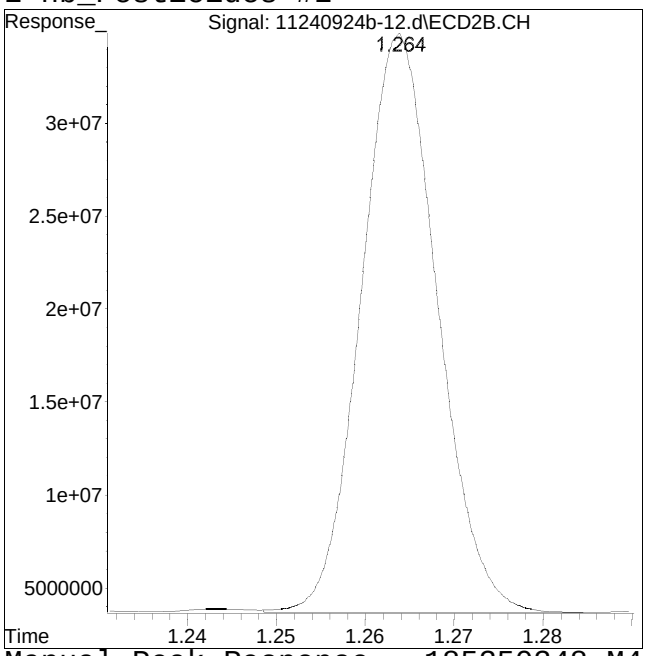
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 188613308



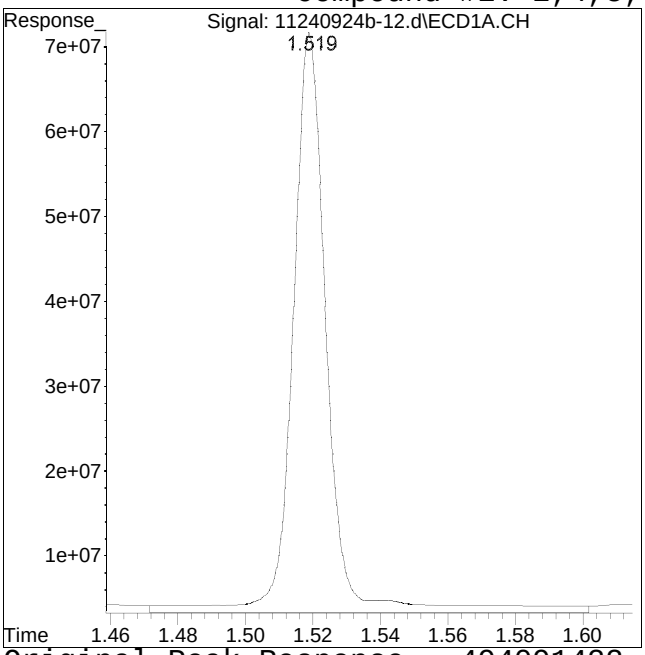
Manual Peak Response = 185350348 M4

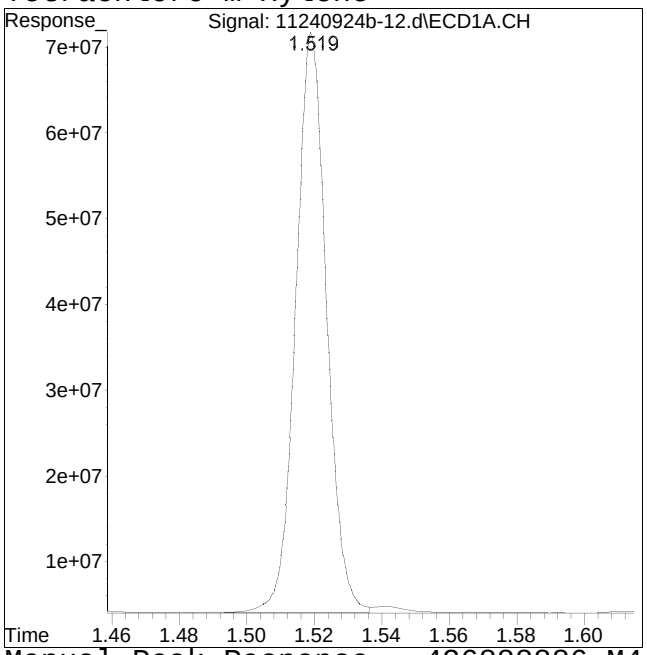
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



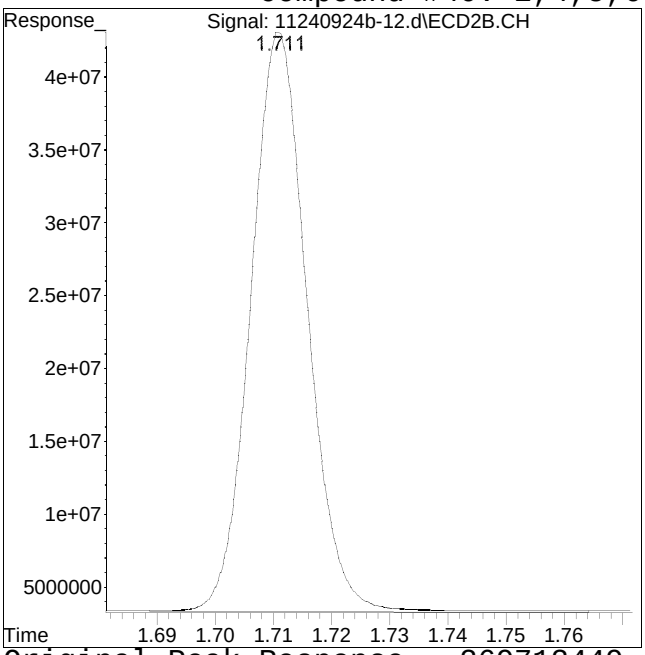


Original Peak Response = 494091422 Manual Peak Response = 426888886 M4
M4 = Poor automated baseline construction.

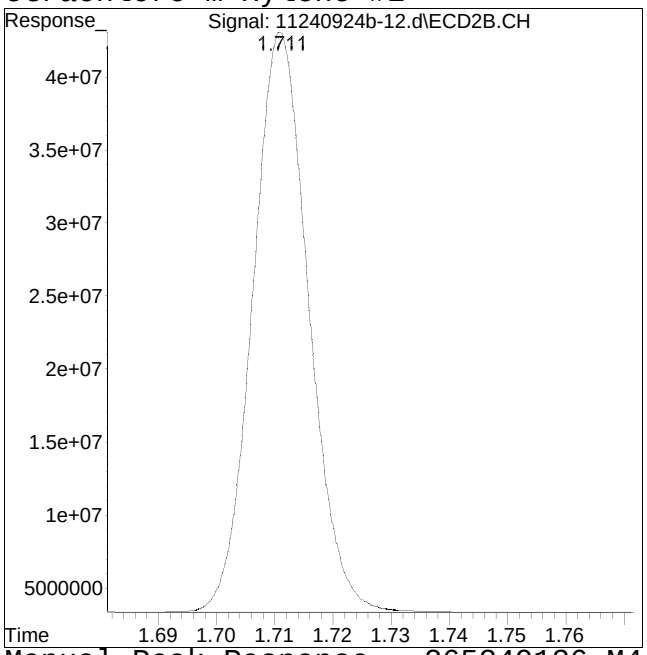
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 269712449



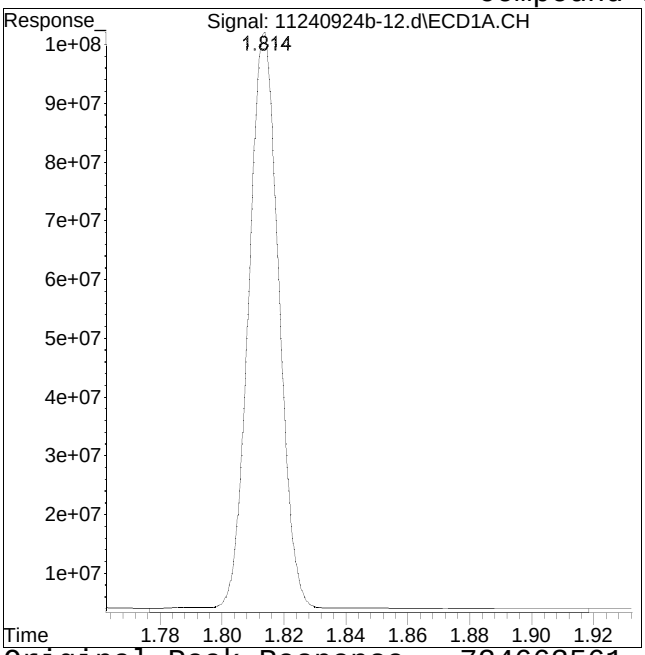
Manual Peak Response = 265249126 M4

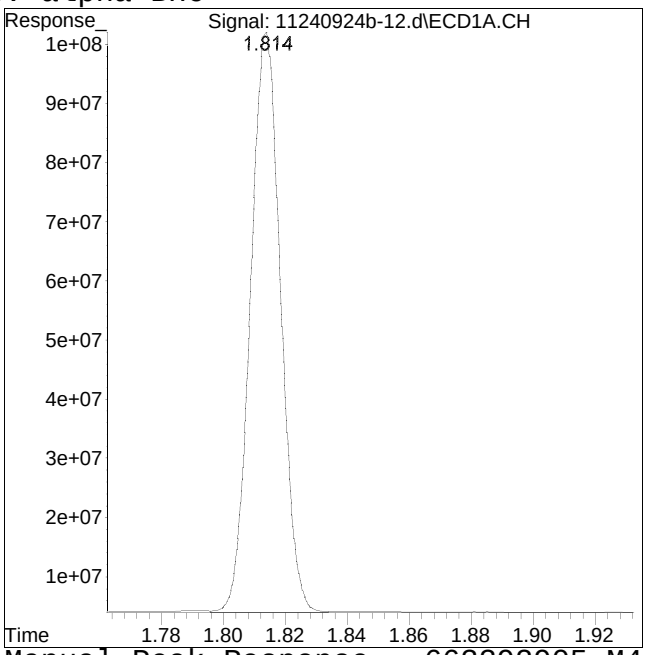
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #4: alpha-BHC



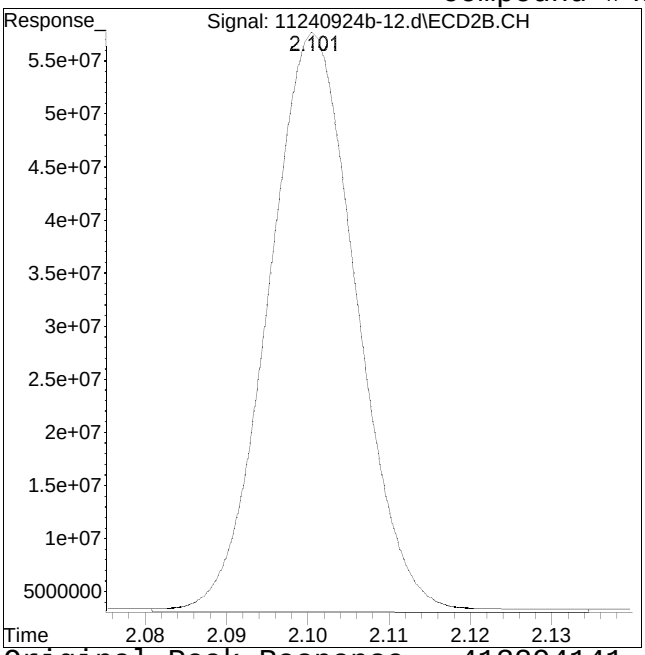


Original Peak Response = 724663561 Manual Peak Response = 663392905 M4
M4 = Poor automated baseline construction.

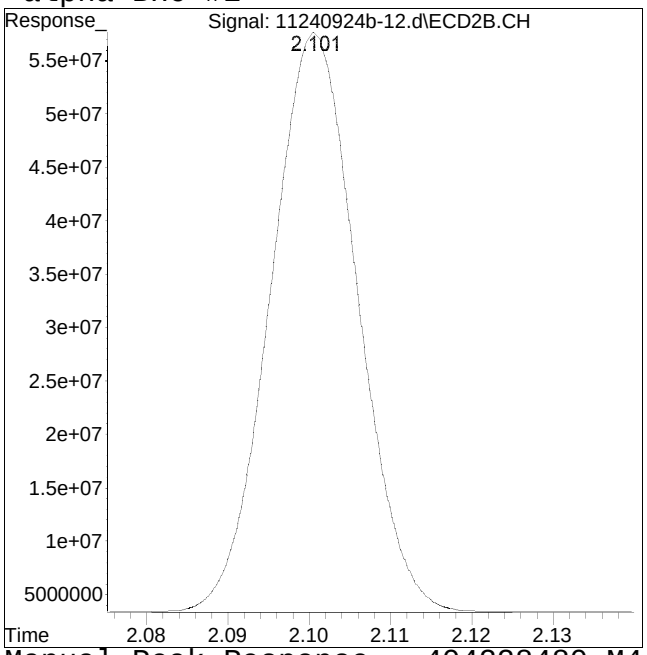
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #42: alpha-BHC #2



Original Peak Response = 413294141



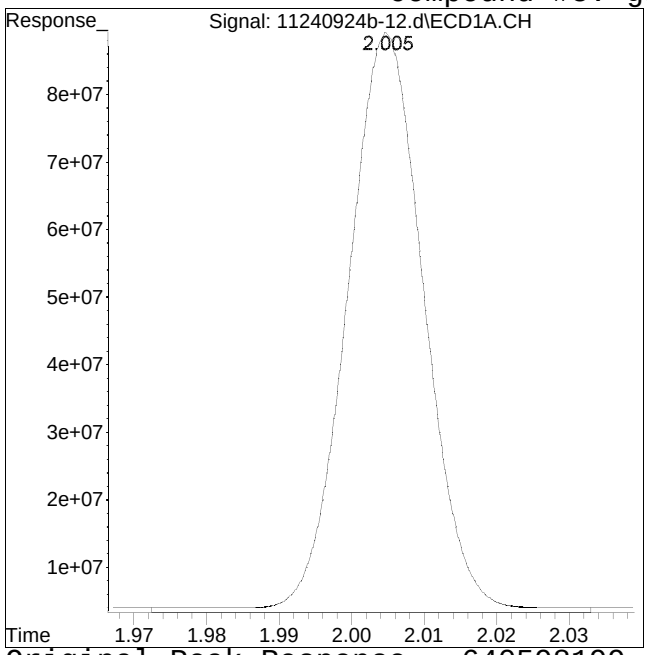
Manual Peak Response = 404228480 M4

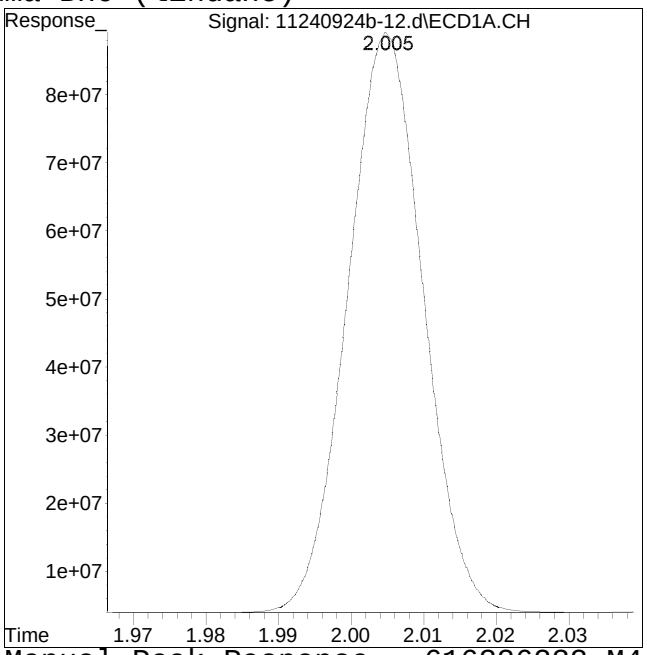
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #5: gamma-BHC (lindane)



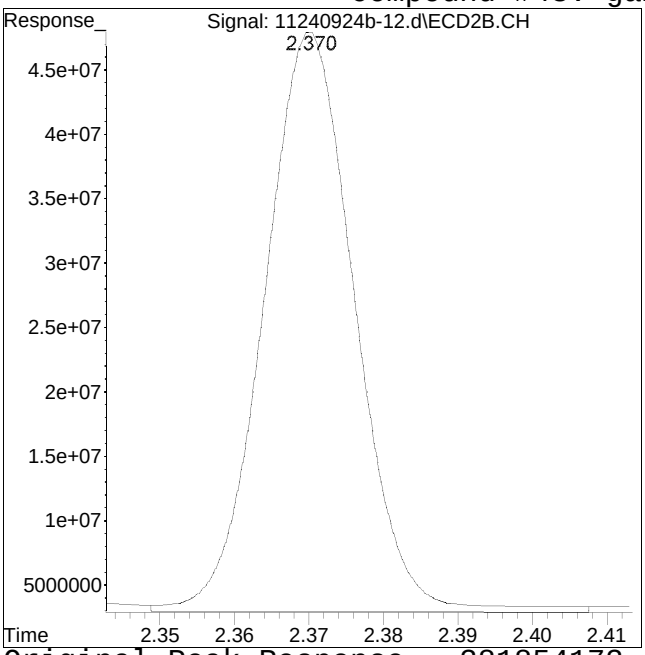


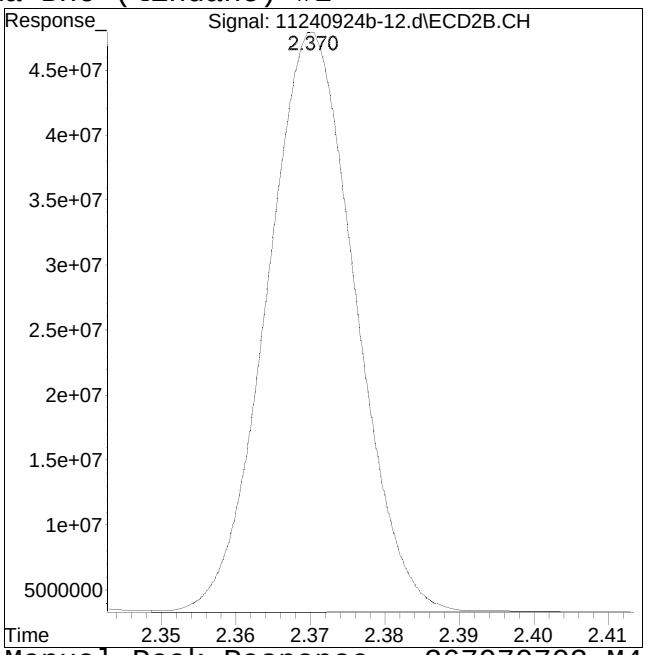
Original Peak Response = 640598199 Manual Peak Response = 616326232 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #43: gamma-BHC (lindane) #2



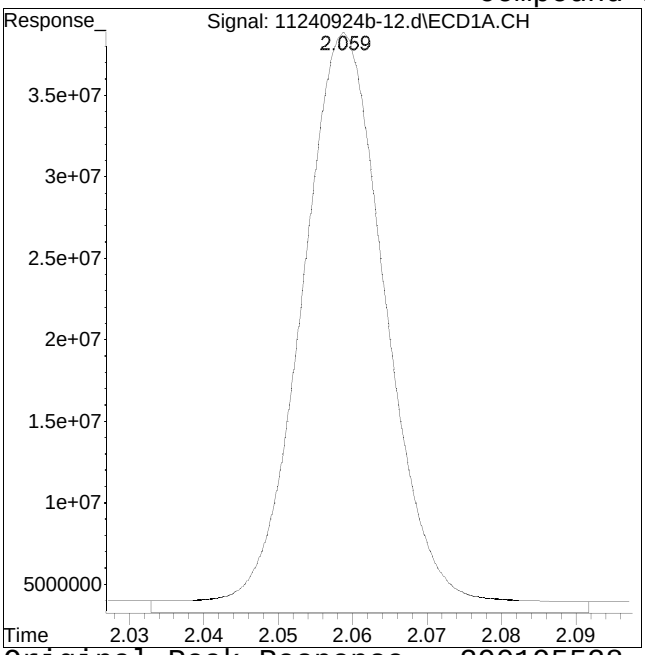


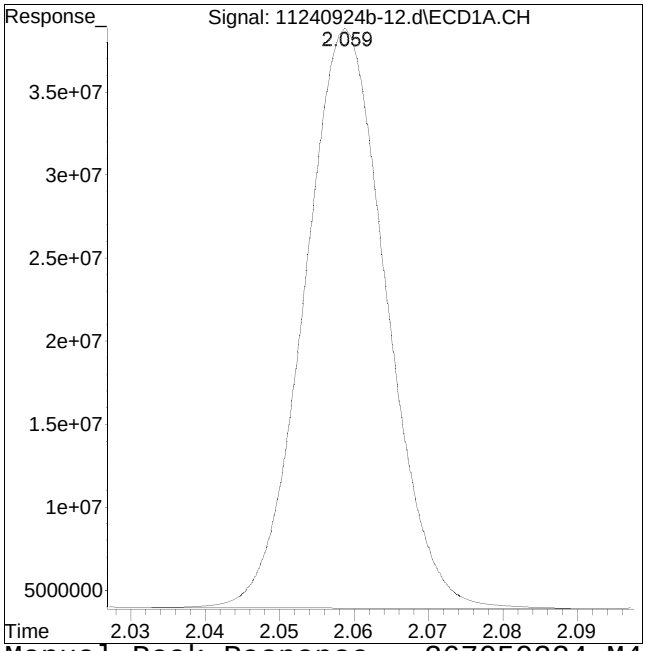
Original Peak Response = 381854173 Manual Peak Response = 367970703 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #6: beta-BHC



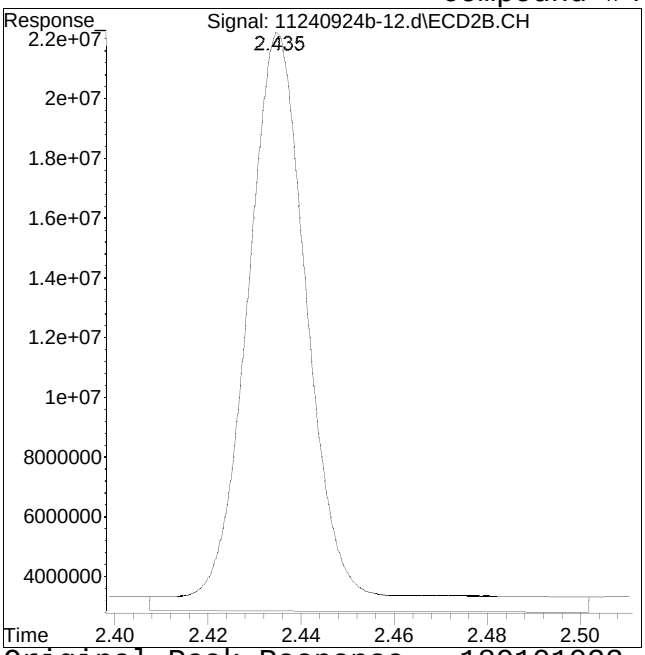


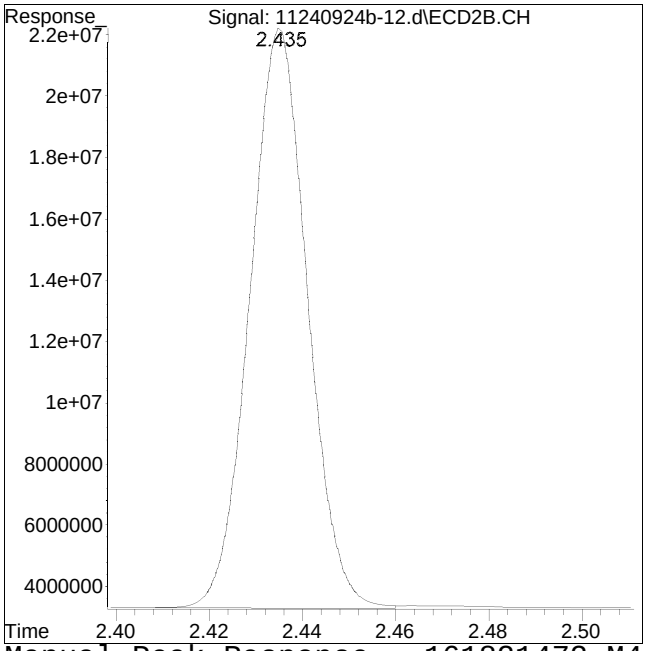
Original Peak Response = 290195528 Manual Peak Response = 267050224 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #44: beta-BHC #2



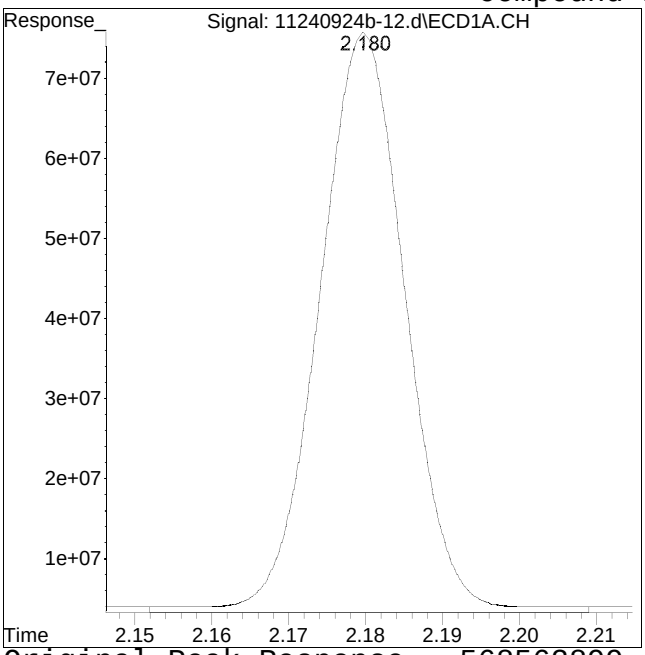


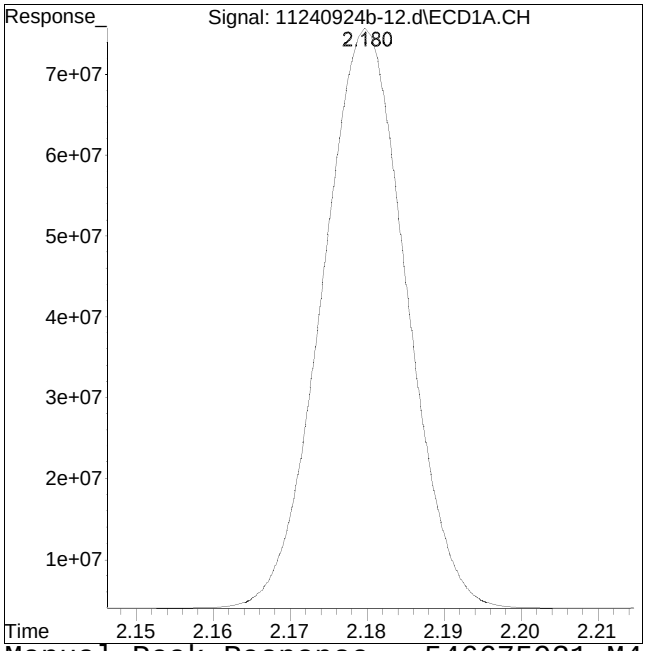
Original Peak Response = 189101923 Manual Peak Response = 161821472 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #7: delta-BHC



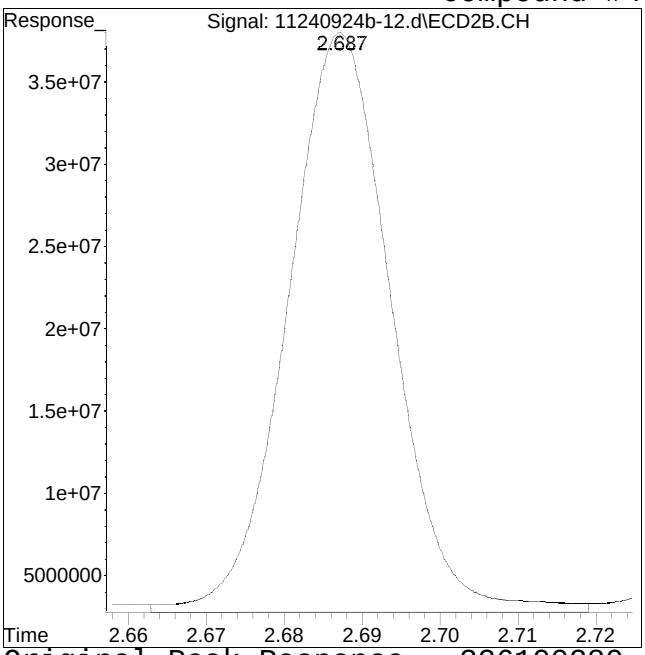


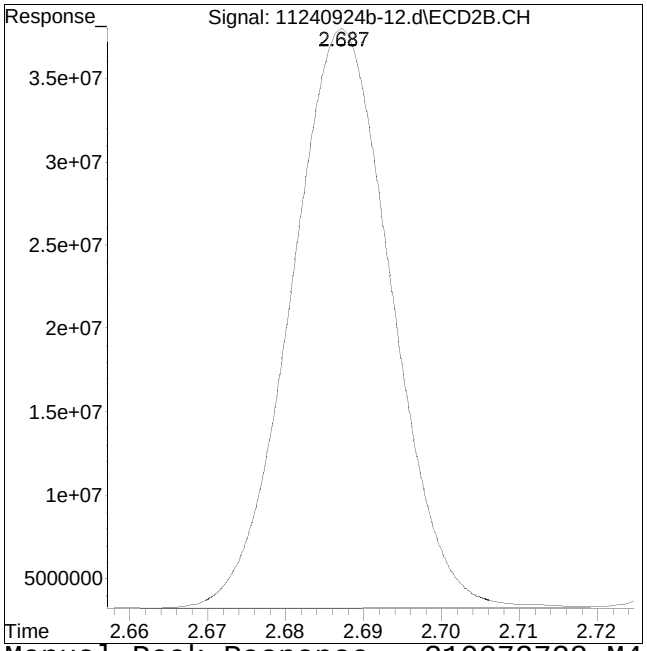
Original Peak Response = 568562899 Manual Peak Response = 546675931 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #45: delta-BHC #2



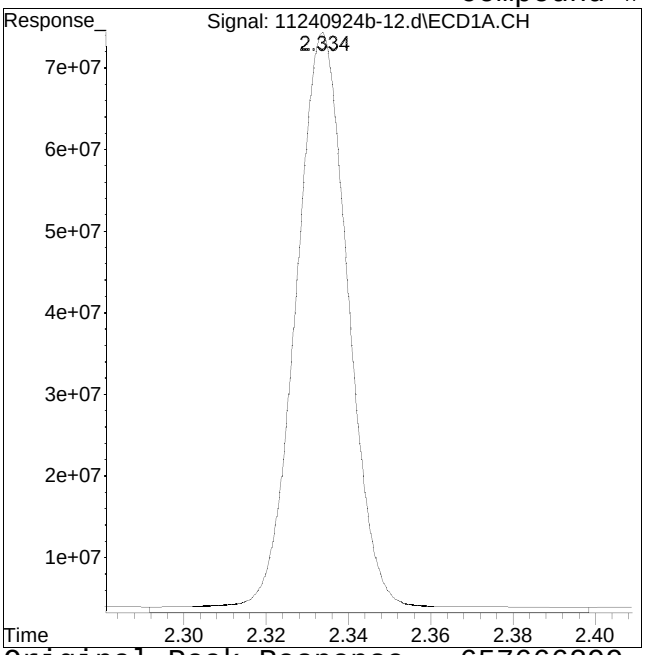


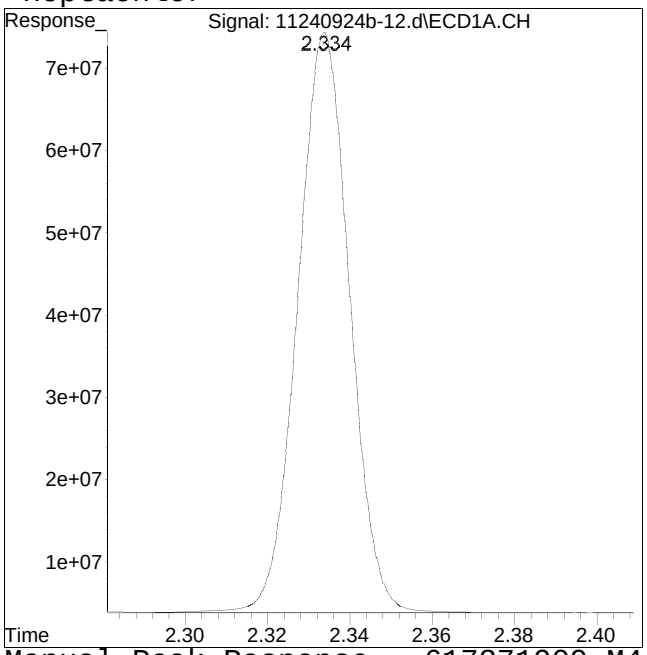
Original Peak Response = 326100280 Manual Peak Response = 310273728 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #8: Heptachlor



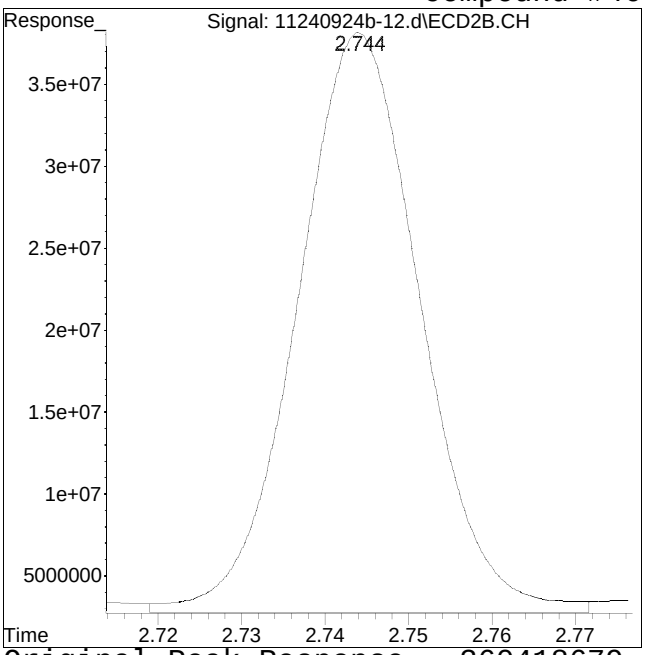


Original Peak Response = 657666299 Manual Peak Response = 617371909 M4
M4 = Poor automated baseline construction.

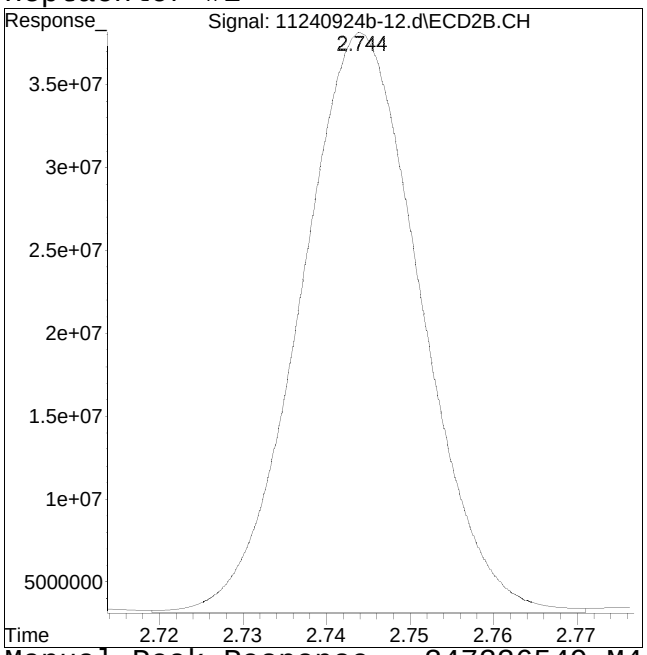
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #46: Heptachlor #2



Original Peak Response = 360418679



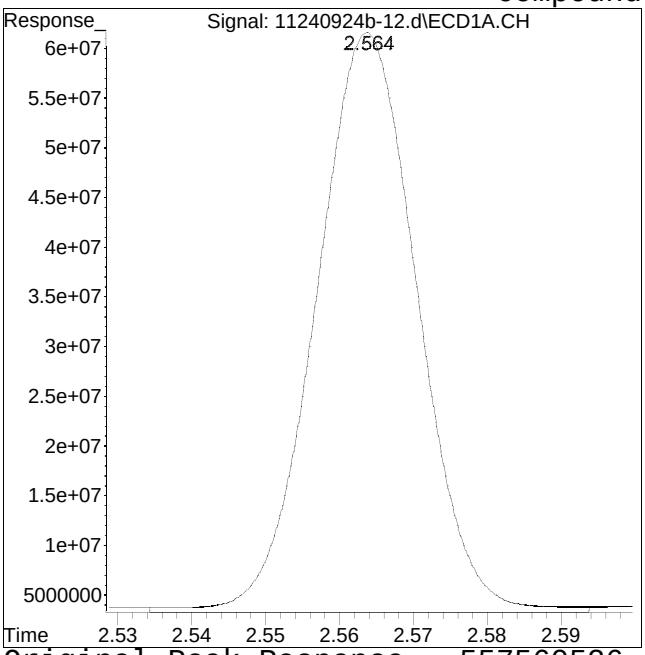
Manual Peak Response = 347336549 M4

M4 = Poor automated baseline construction.

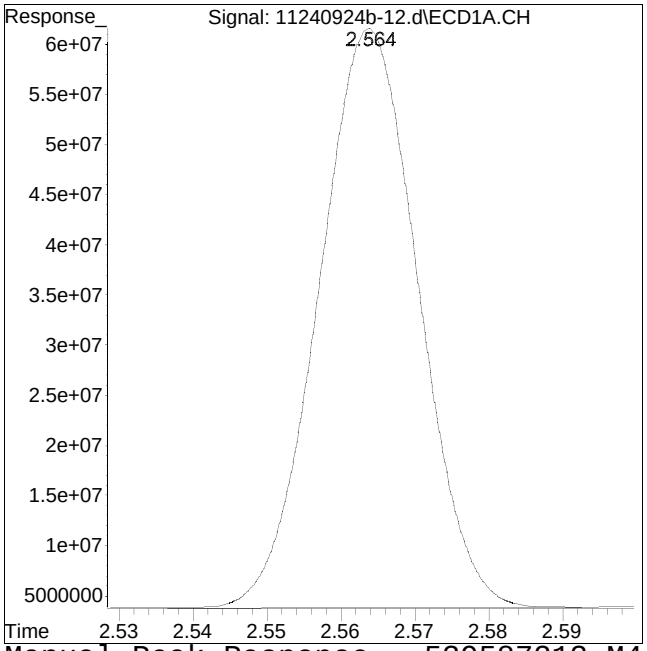
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #9: Aldrin



Original Peak Response = 557560526



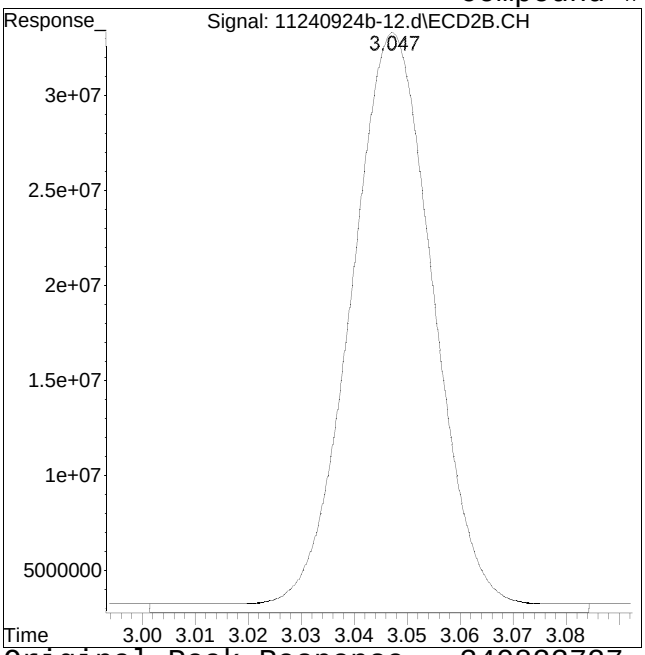
Manual Peak Response = 539587213 M4

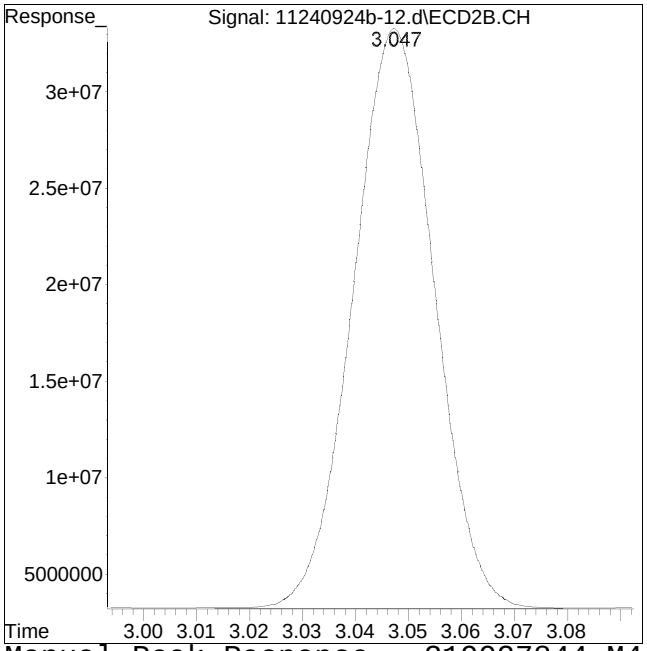
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #47: Aldrin #2



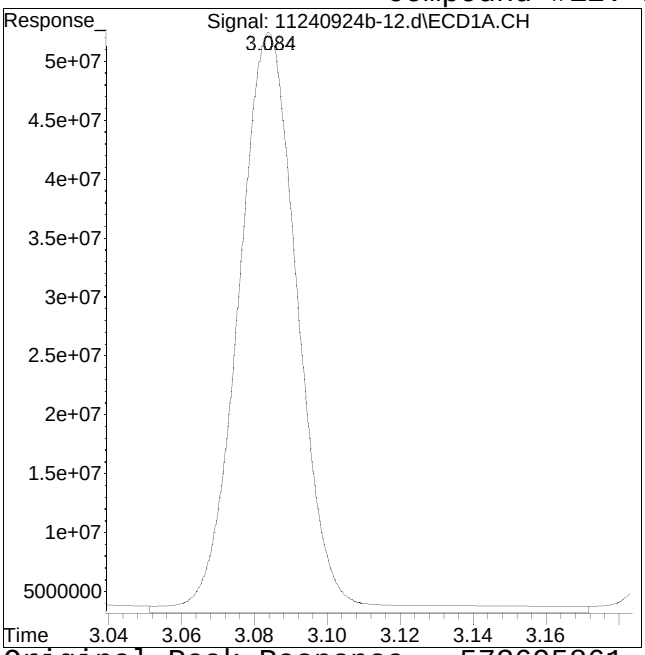


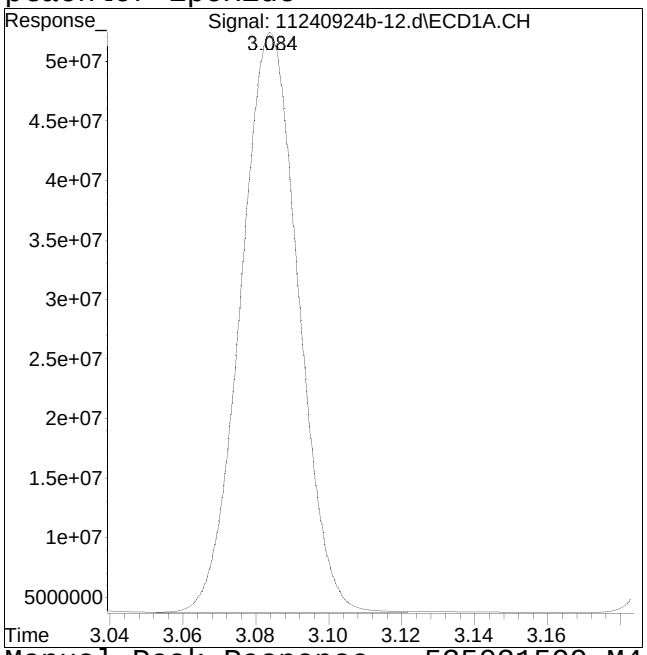
Original Peak Response = 340823727 Manual Peak Response = 319927844 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #12: Heptachlor Epoxide



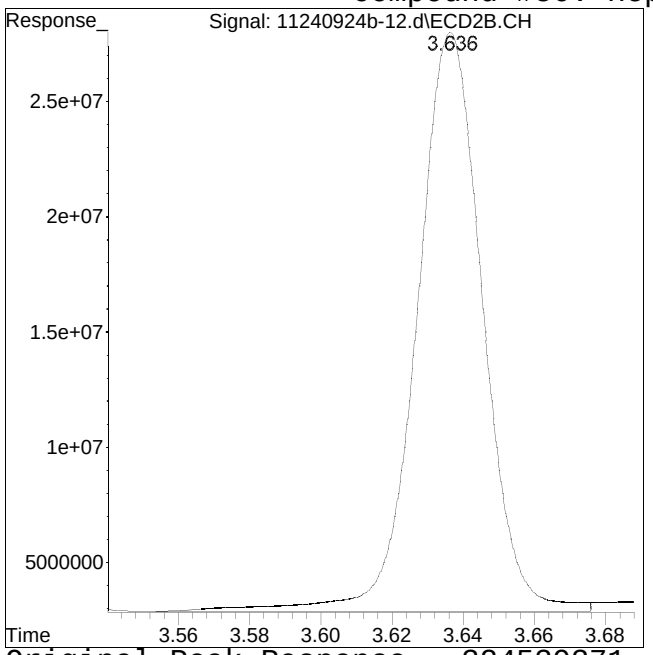


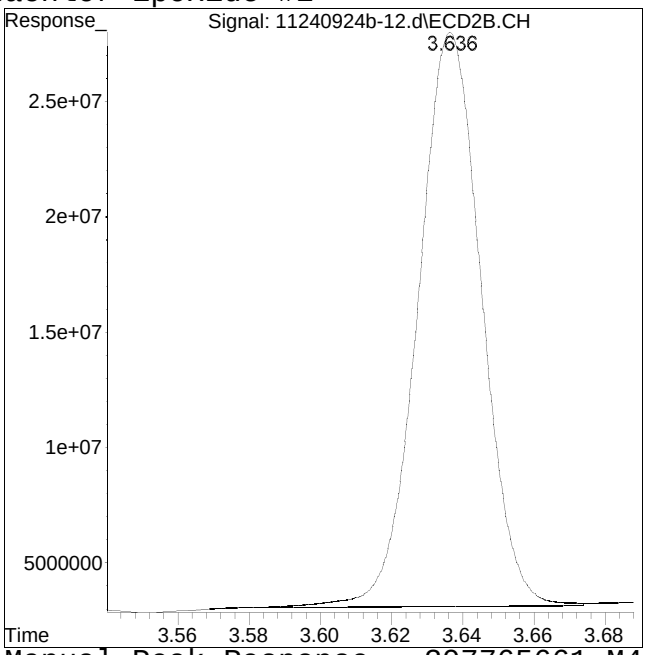
Original Peak Response = 573695861 Manual Peak Response = 535021599 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #50: Heptachlor Epoxide #2



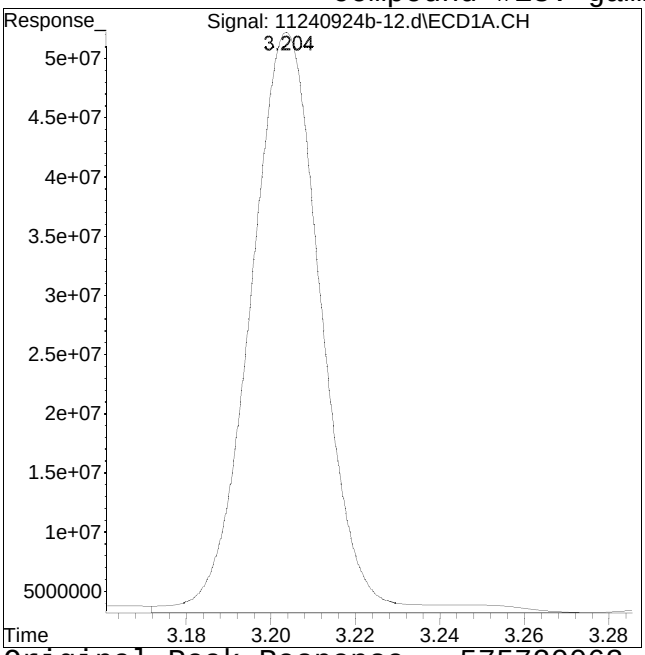


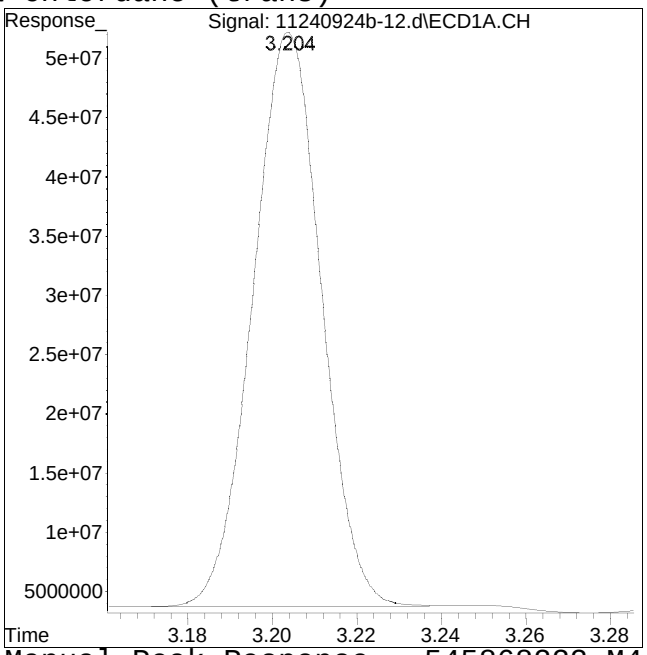
Original Peak Response = 324539371 Manual Peak Response = 307765661 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #13: gamma-Chlordane (trans)



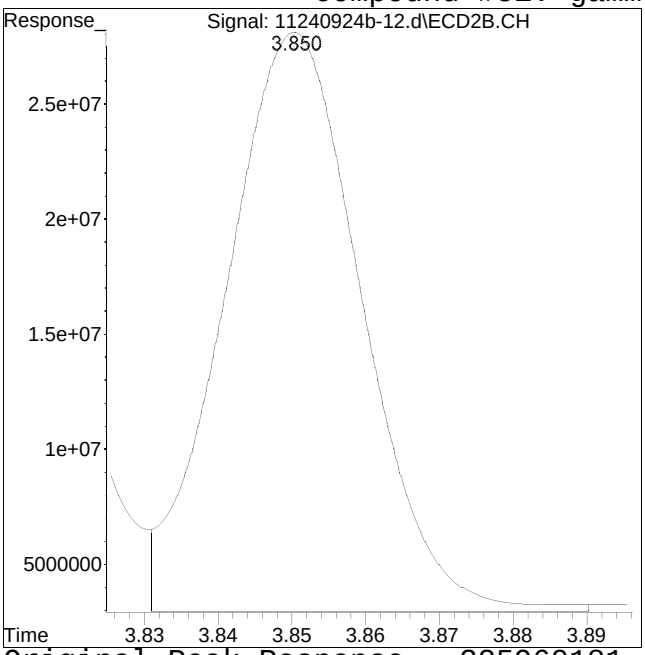


Original Peak Response = 575720063 Manual Peak Response = 545868222 M4
M4 = Poor automated baseline construction.

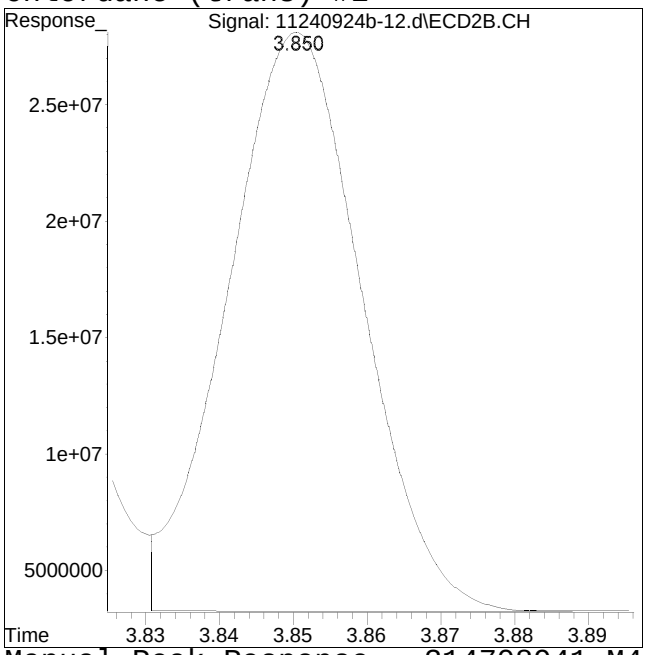
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 325960181



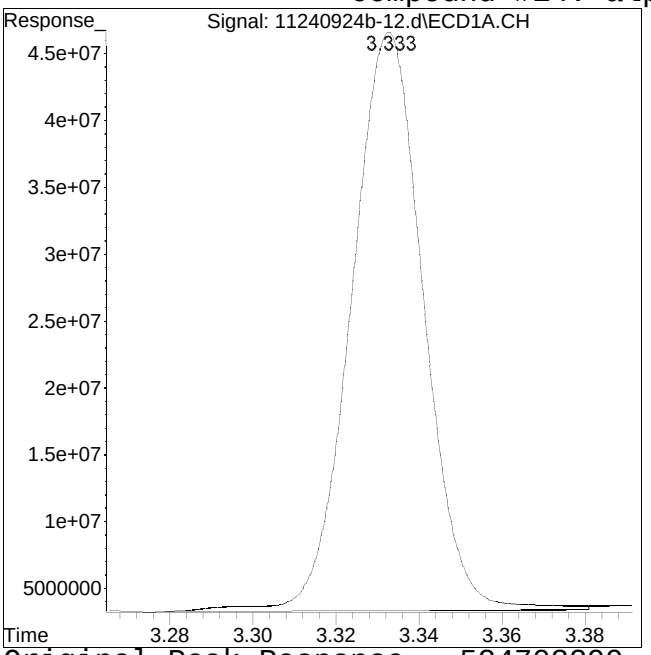
Manual Peak Response = 314708941 M4

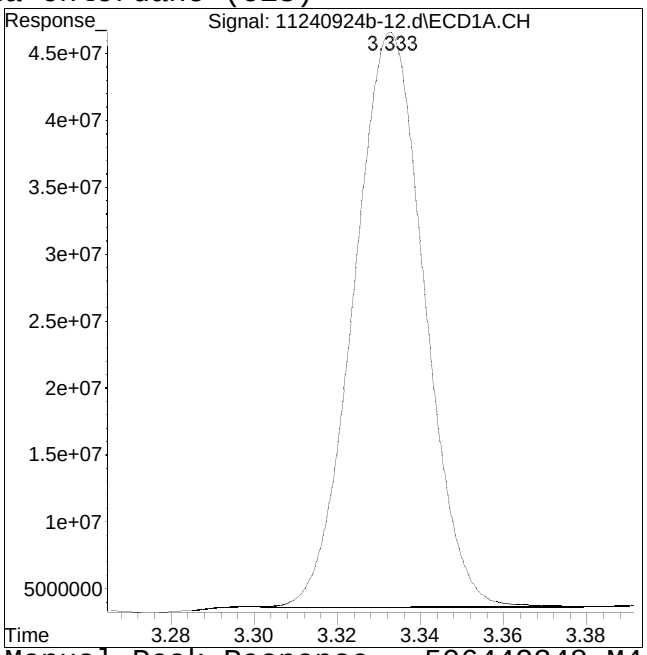
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #14: alpha-Chlordane (cis)



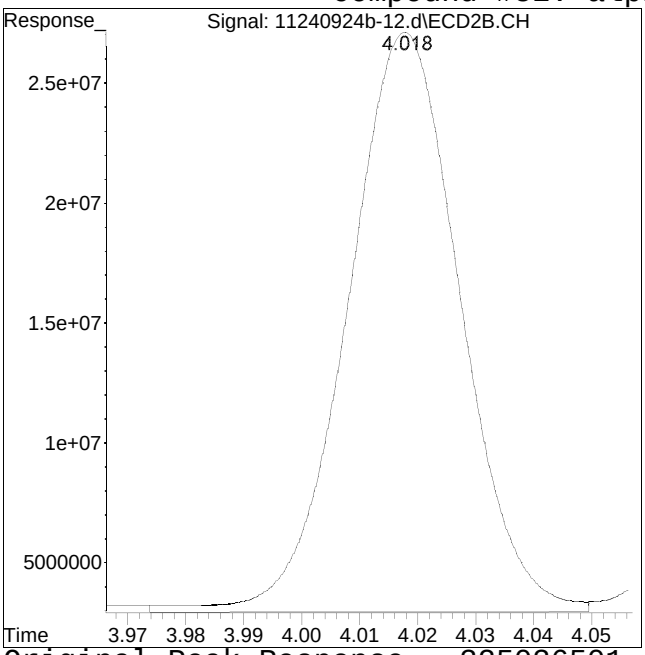


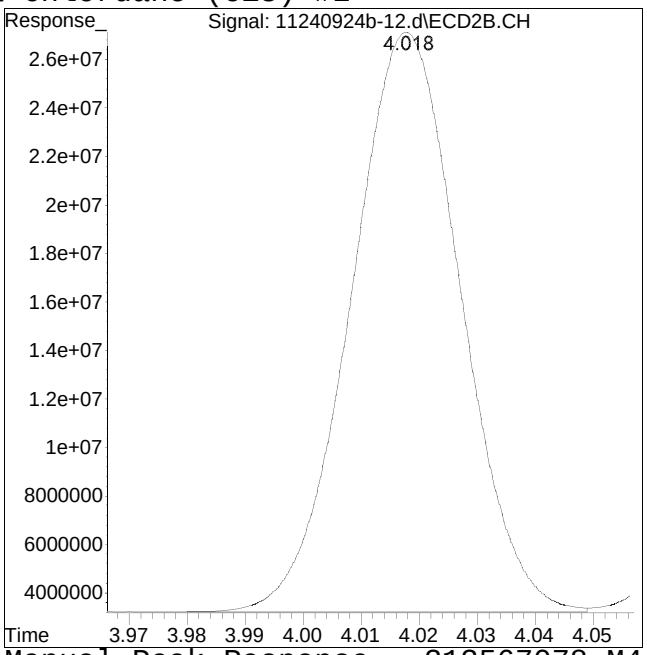
Original Peak Response = 524703299 Manual Peak Response = 506442348 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #52: alpha-Chlordane (cis) #2



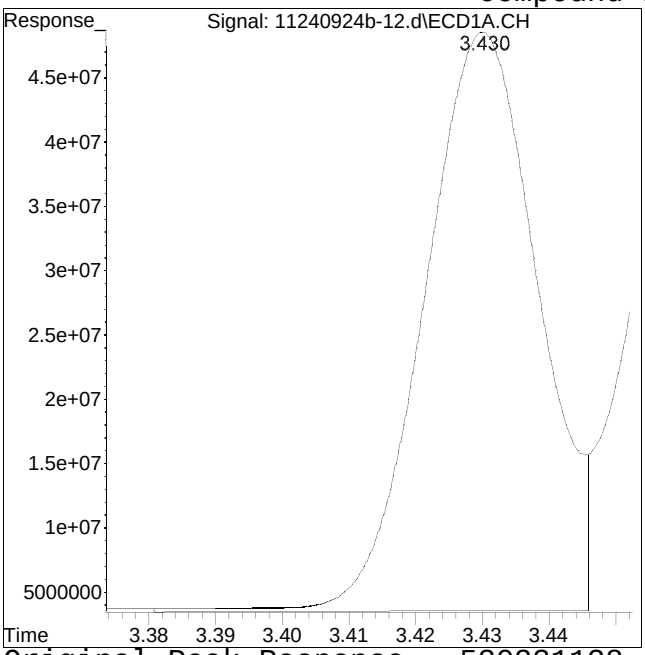


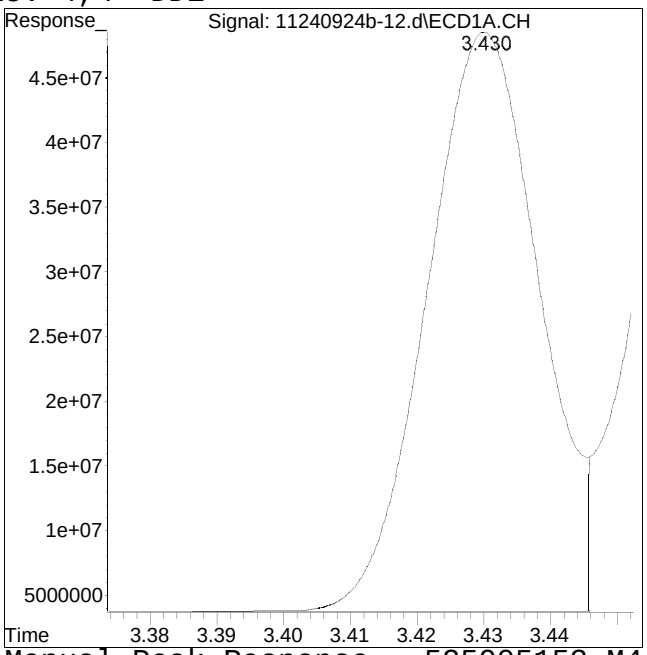
Original Peak Response = 325036501 Manual Peak Response = 313567078 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #15: 4,4'-DDE



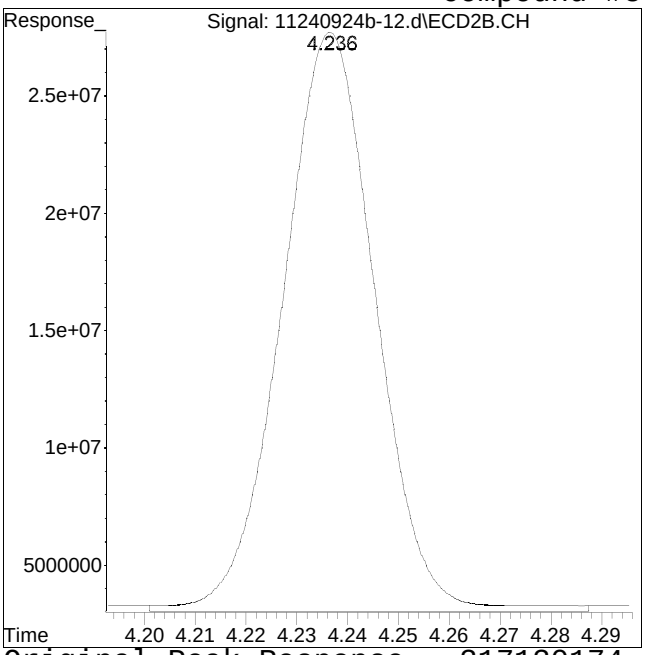


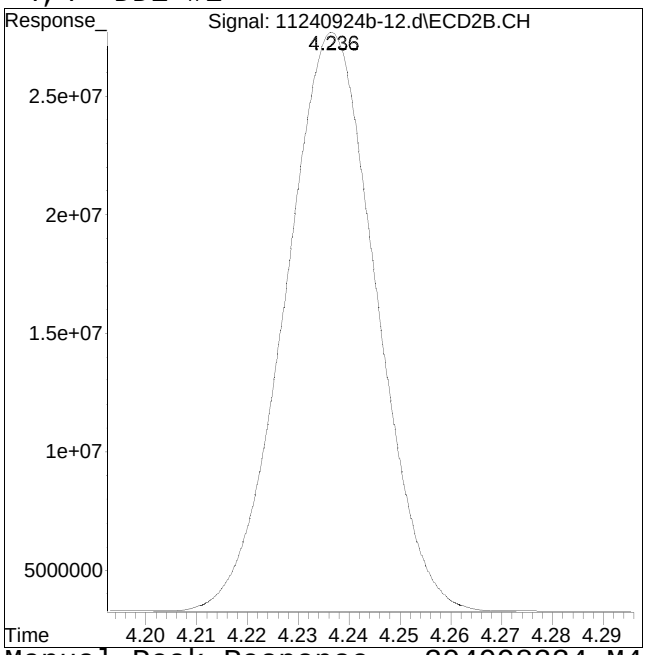
Original Peak Response = 530331138 Manual Peak Response = 525905153 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #53: 4,4'-DDE #2



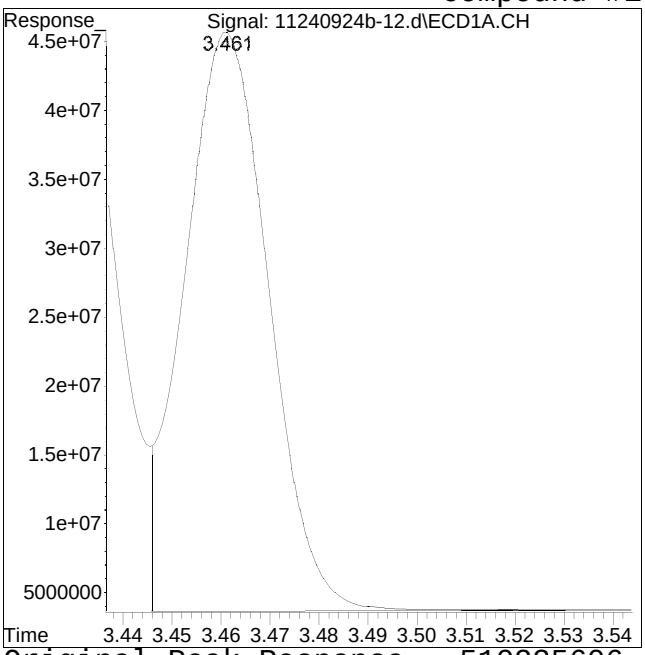


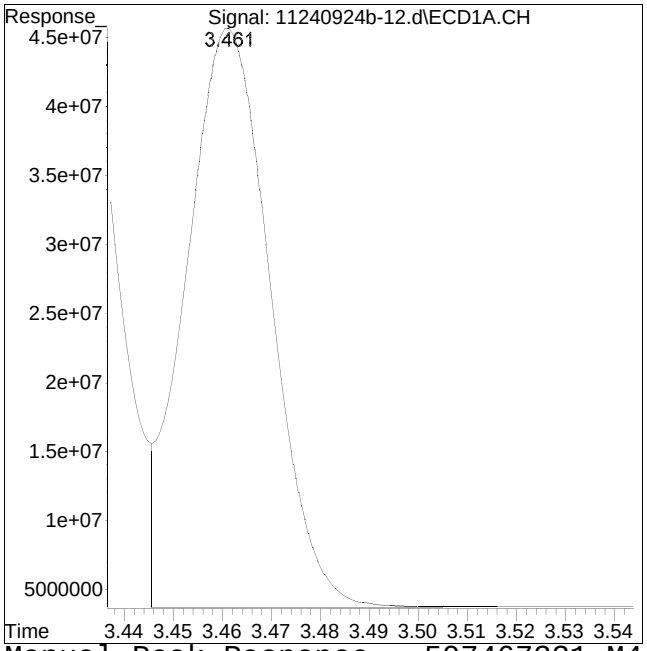
Original Peak Response = 317130174 Manual Peak Response = 304998334 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #16: Endosulfan I



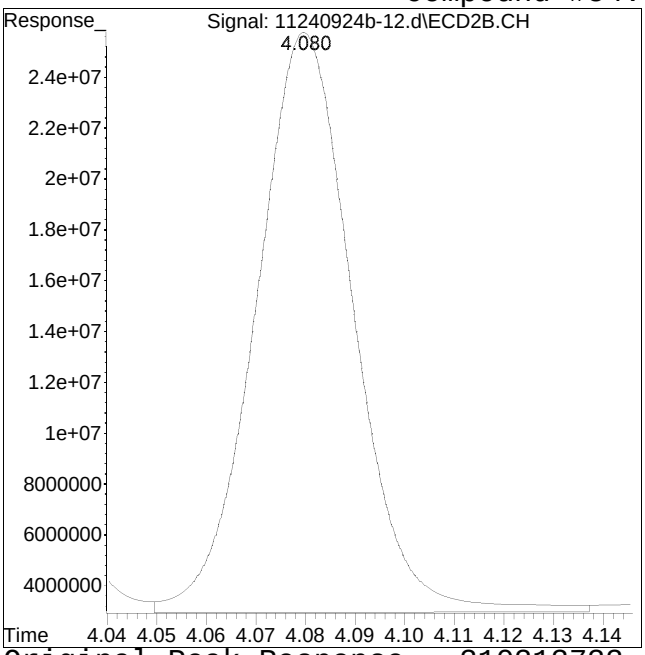


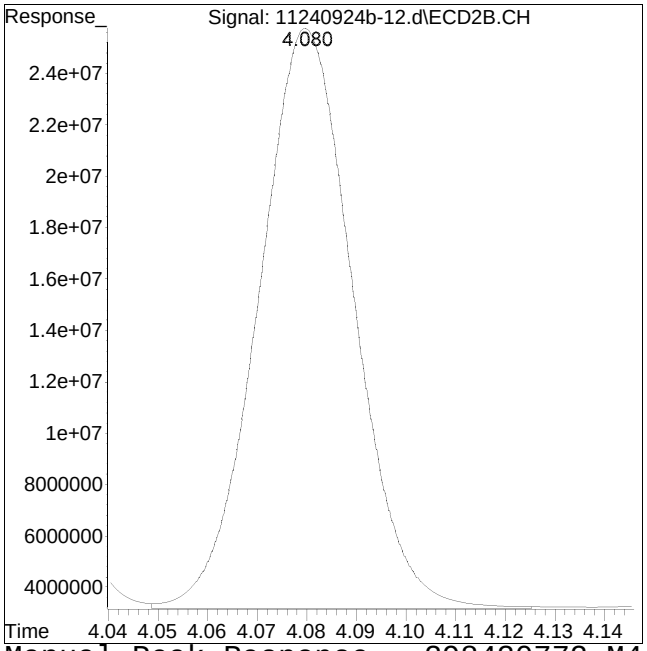
Original Peak Response = 510235606 Manual Peak Response = 507467331 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #54: Endosulfan I #2



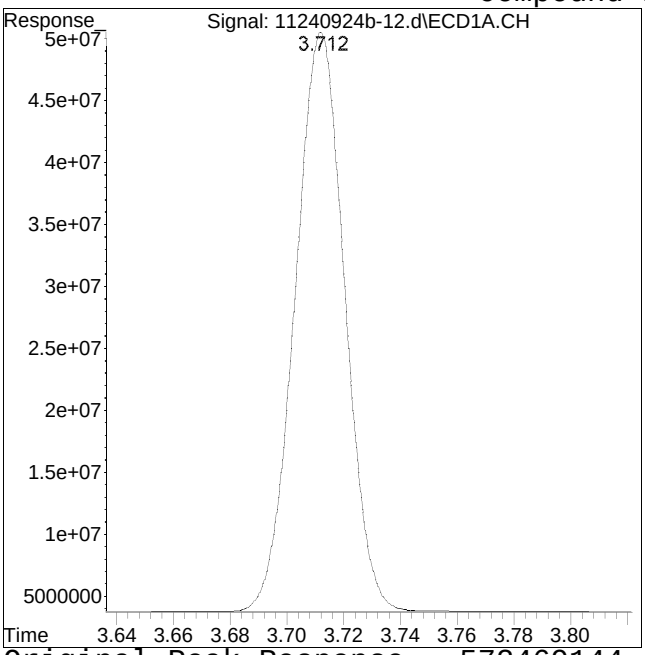


Original Peak Response = 310313733 Manual Peak Response = 298430772 M4
M4 = Poor automated baseline construction.

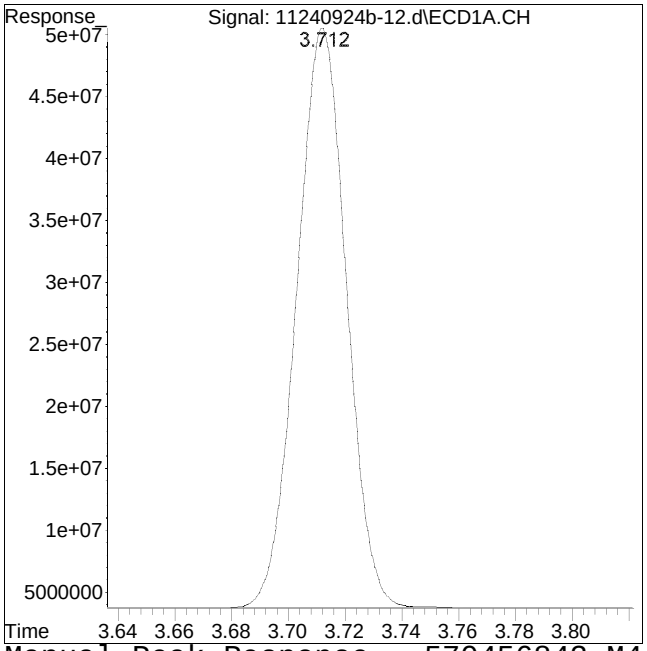
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #17: Dieldrin



Original Peak Response = 572469144



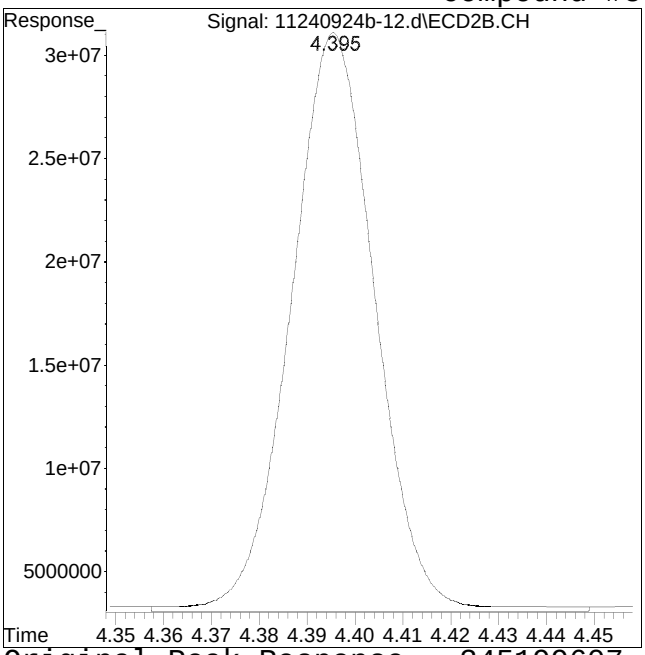
Manual Peak Response = 570456843 M4

M4 = Poor automated baseline construction.

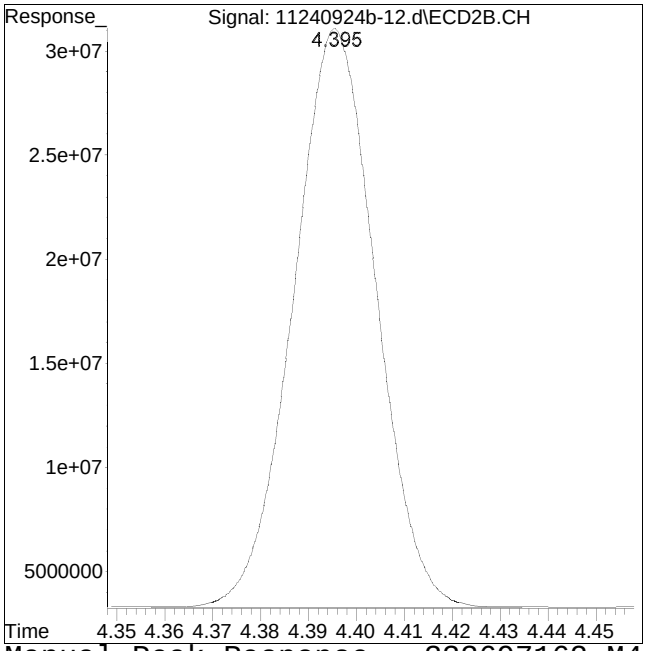
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #55: Dieldrin #2



Original Peak Response = 345199607



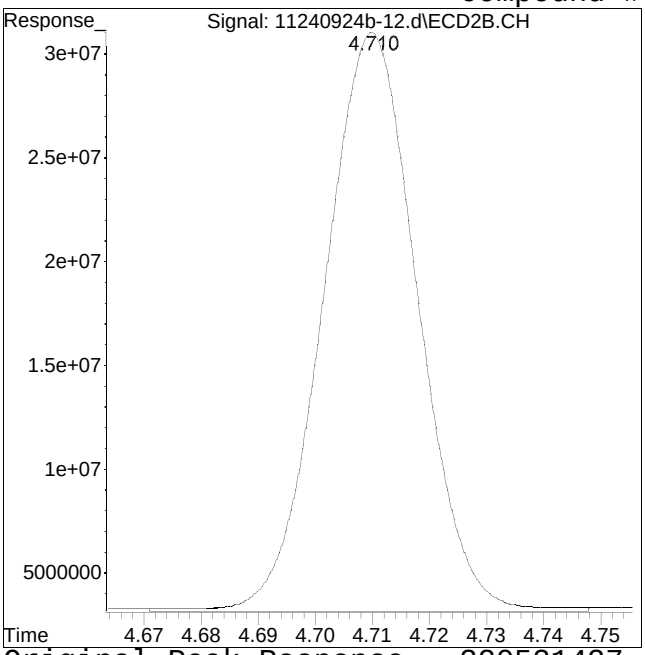
Manual Peak Response = 333697162 M4

M4 = Poor automated baseline construction.

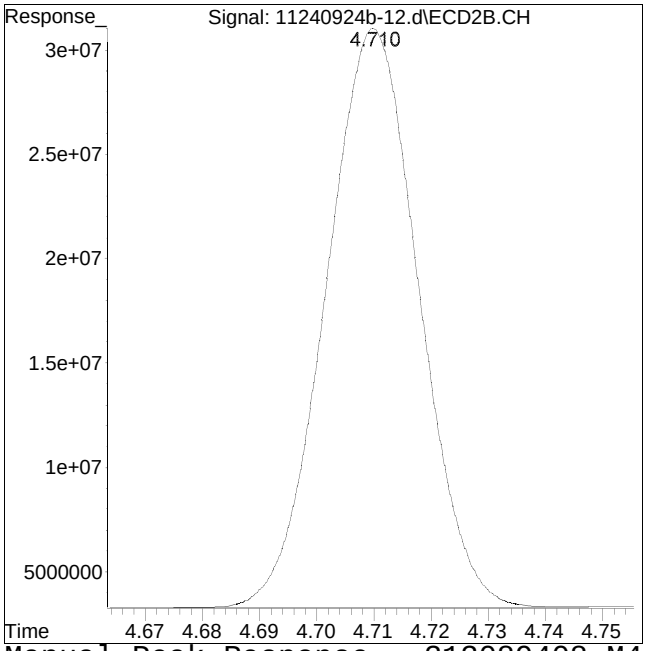
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #56: Endrin #2



Original Peak Response = 320521427



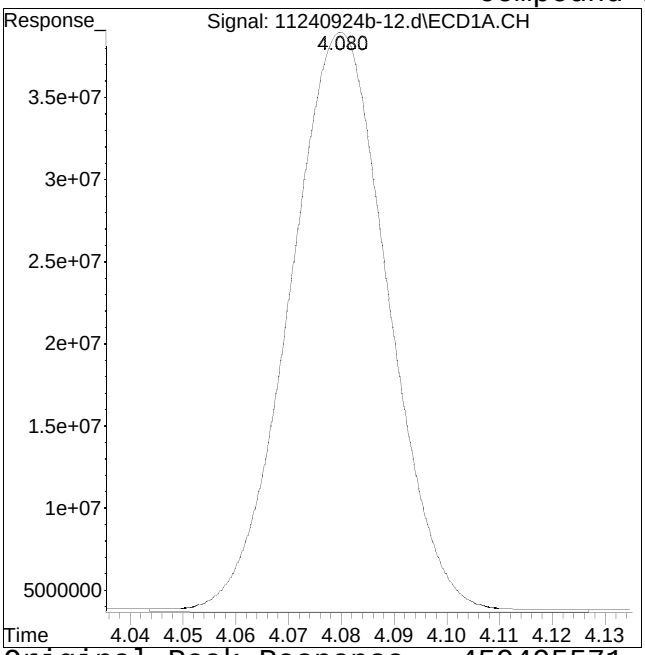
Manual Peak Response = 313089408 M4

M4 = Poor automated baseline construction.

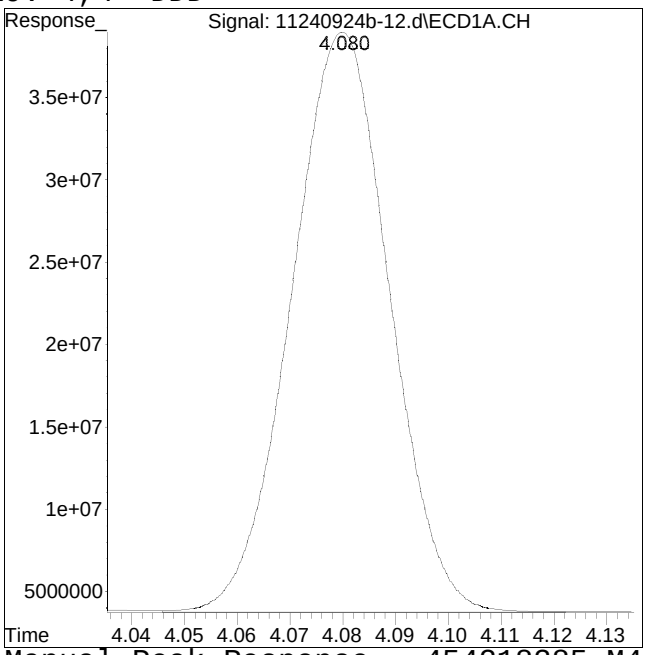
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #19: 4,4'-DDD



Original Peak Response = 459495571



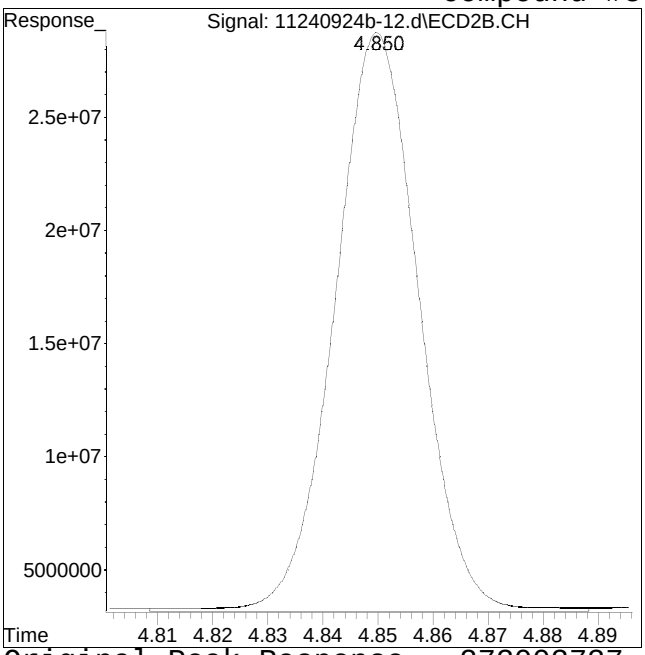
Manual Peak Response = 454218385 M4

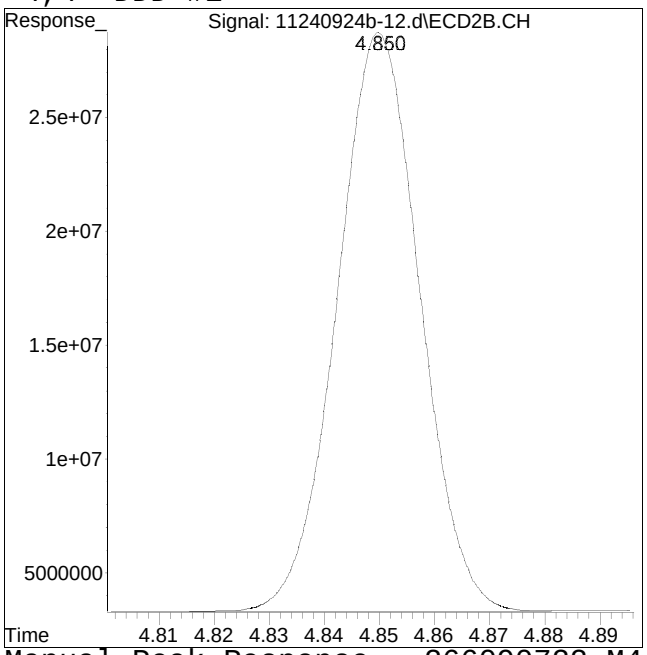
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #57: 4,4'-DDD #2



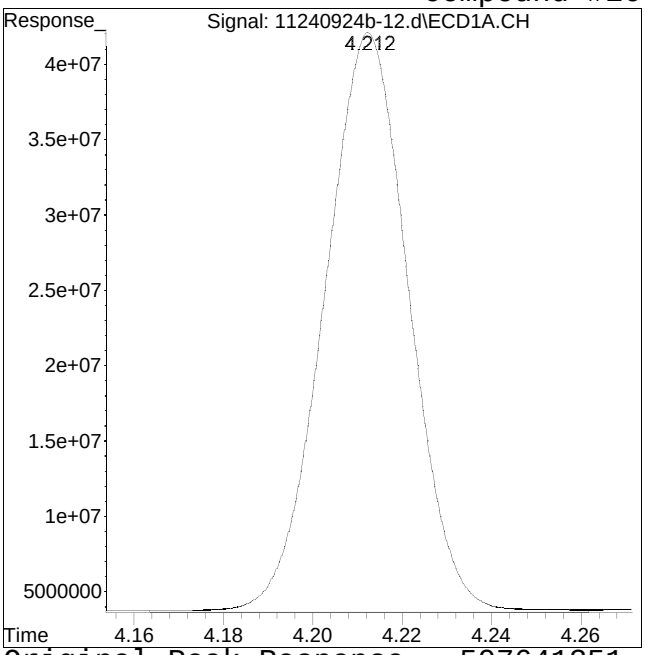


Original Peak Response = 273003737 Manual Peak Response = 266090722 M4
M4 = Poor automated baseline construction.

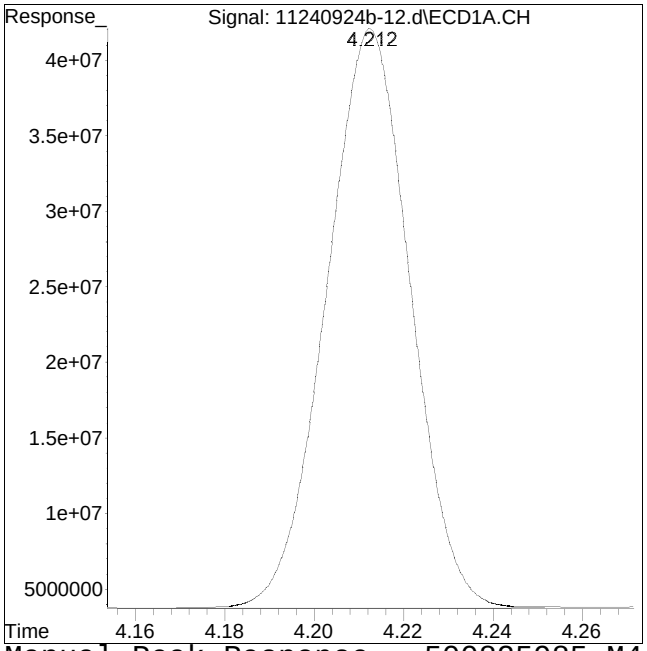
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #20: Endosulfan II



Original Peak Response = 507641351



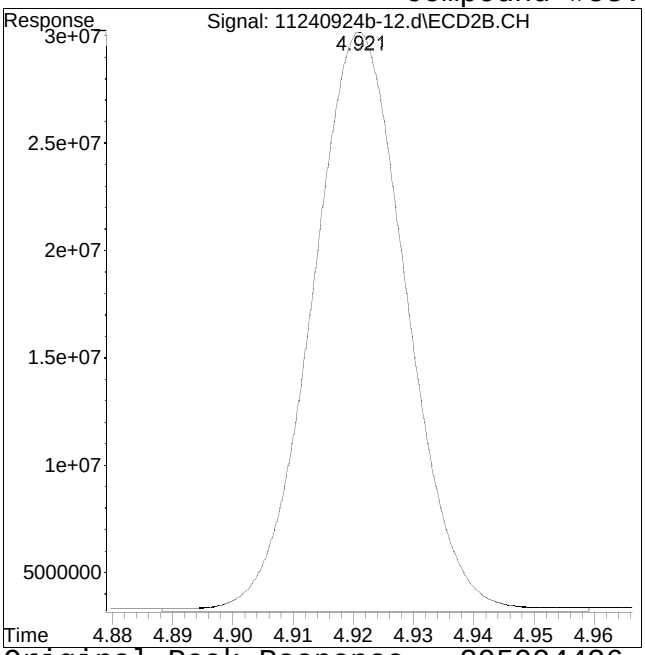
Manual Peak Response = 500825985 M4

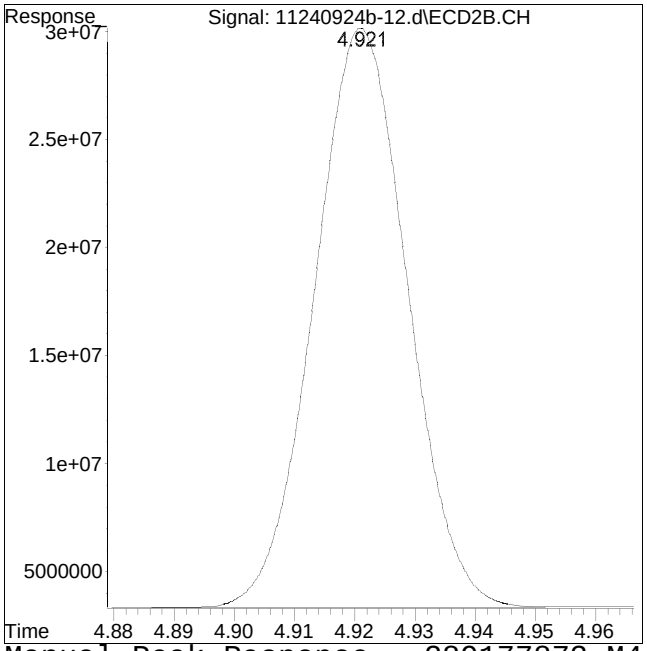
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #58: Endosulfan II #2



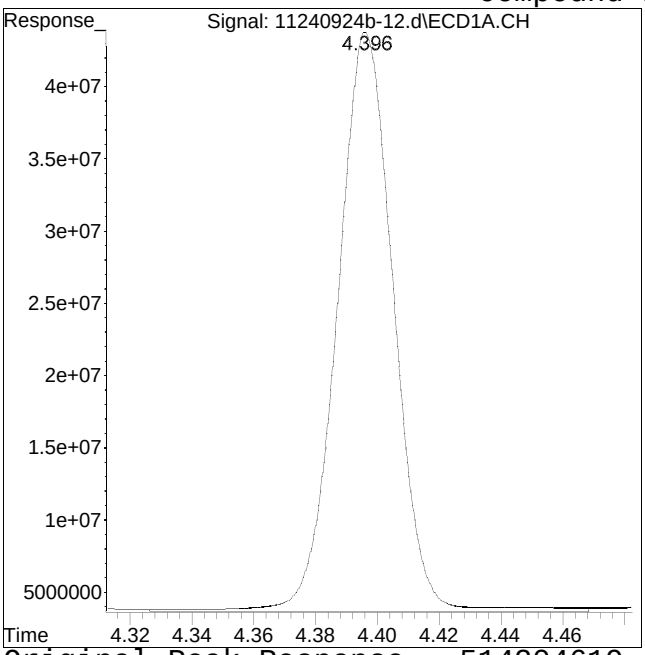


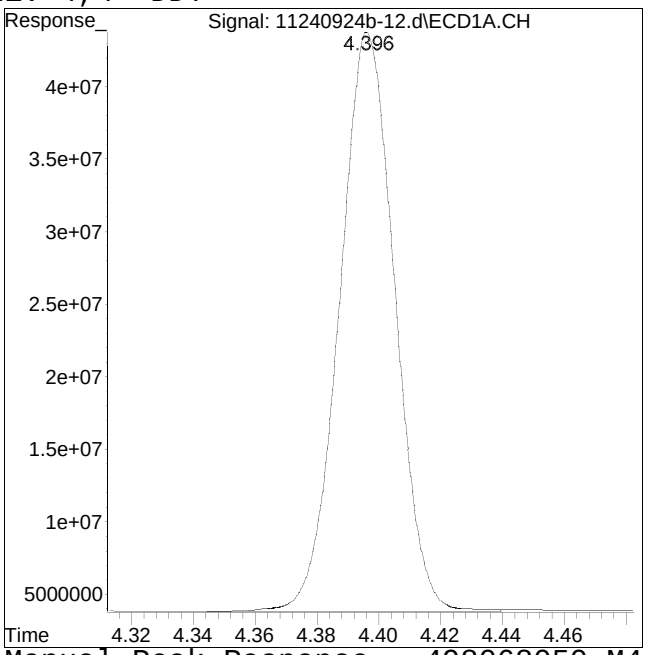
Original Peak Response = 295994436 Manual Peak Response = 289177873 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #21: 4,4'-DDT



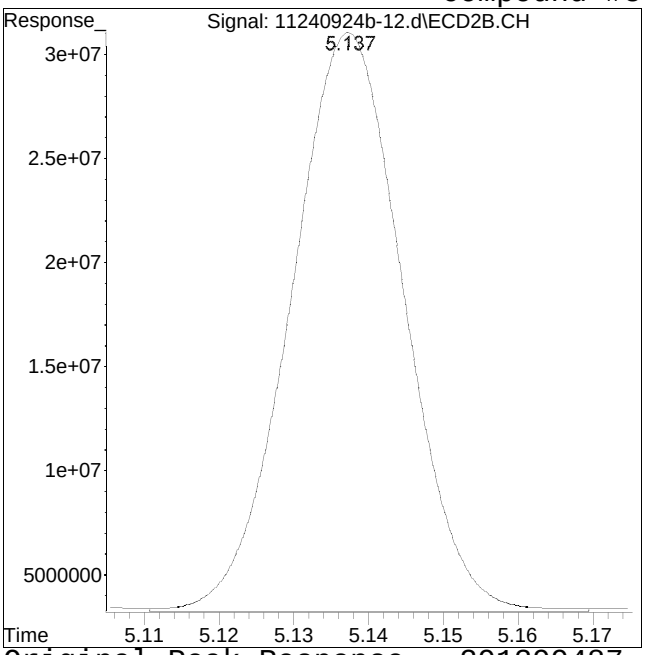


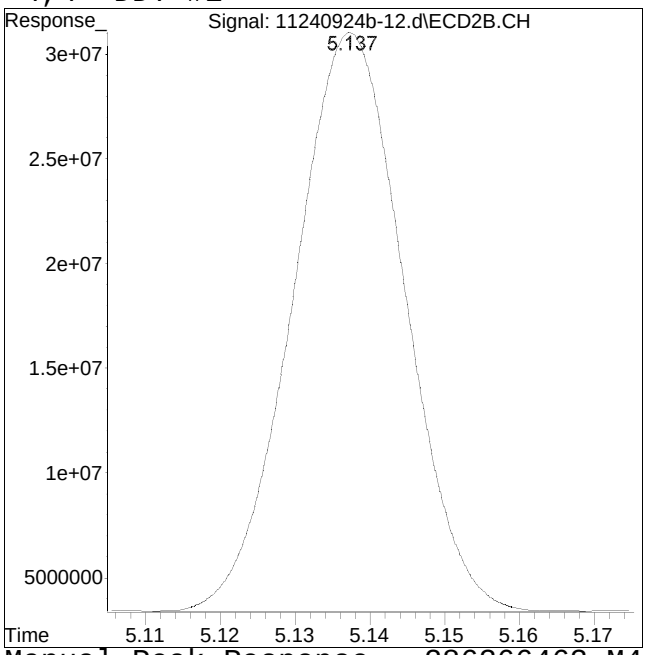
Original Peak Response = 514204619 Manual Peak Response = 498068050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #59: 4,4'-DDT #2



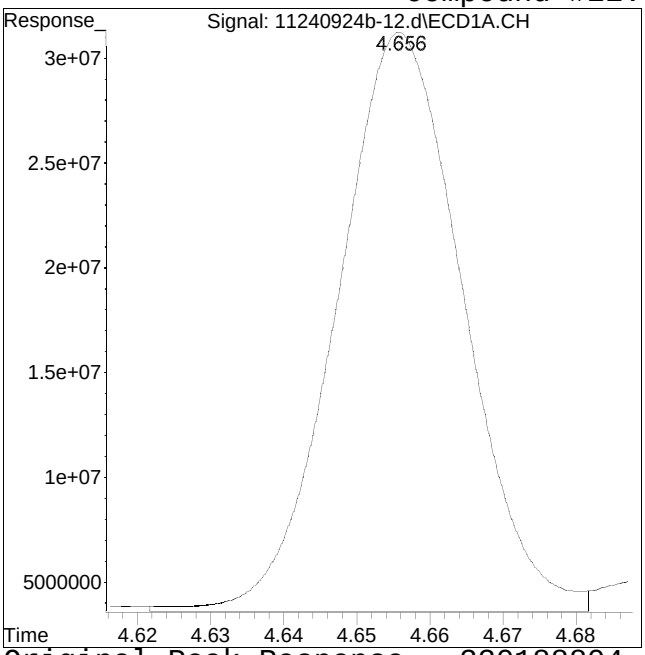


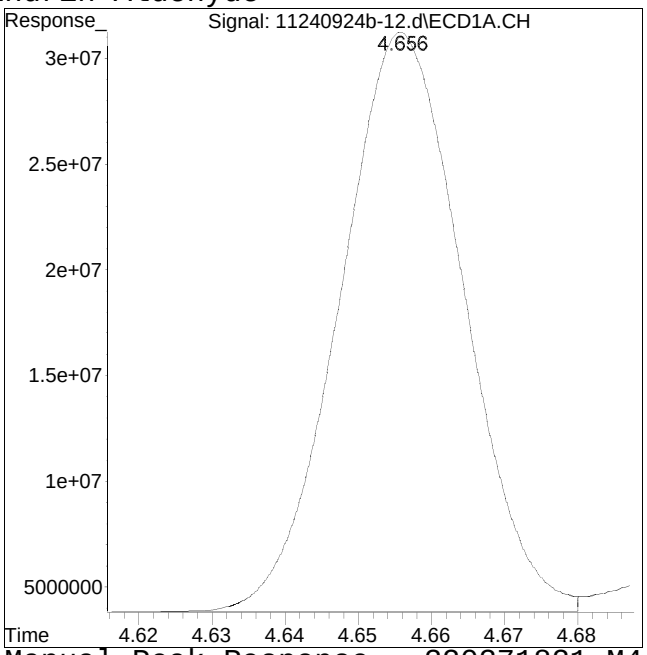
Original Peak Response = 291399487 Manual Peak Response = 286366463 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #22: Endrin Aldehyde



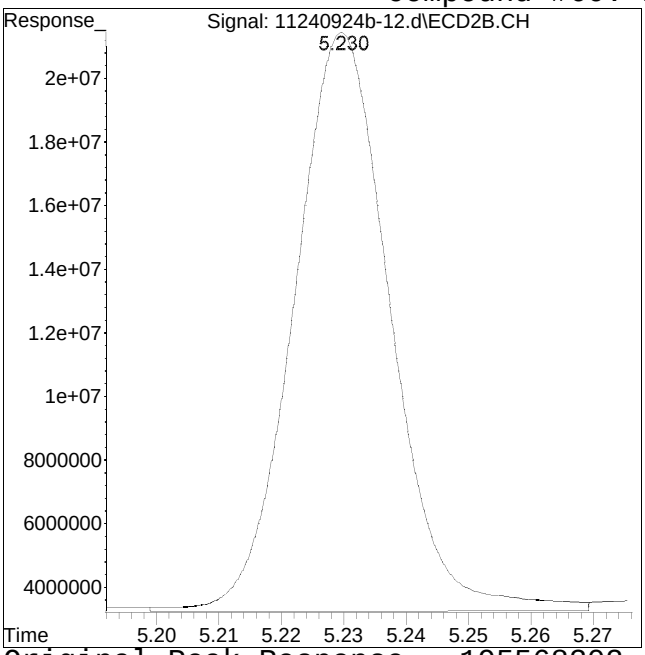


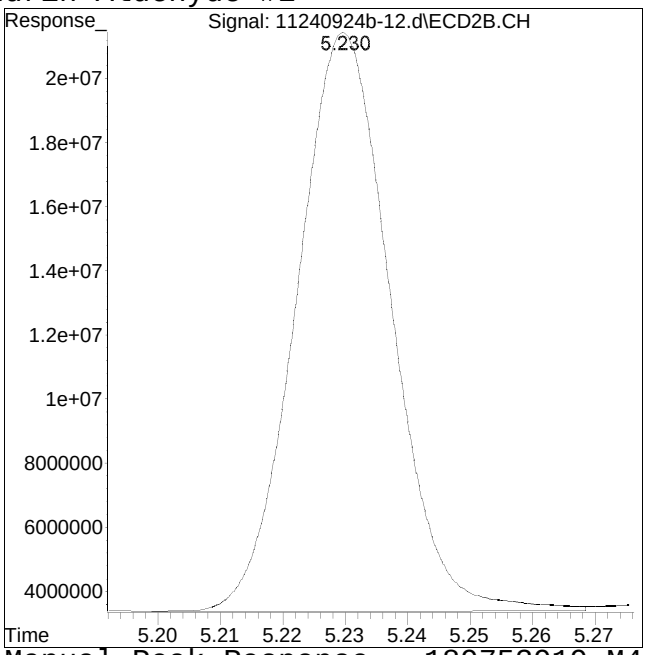
Original Peak Response = 330188804 Manual Peak Response = 320371821 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #60: Endrin Aldehyde #2



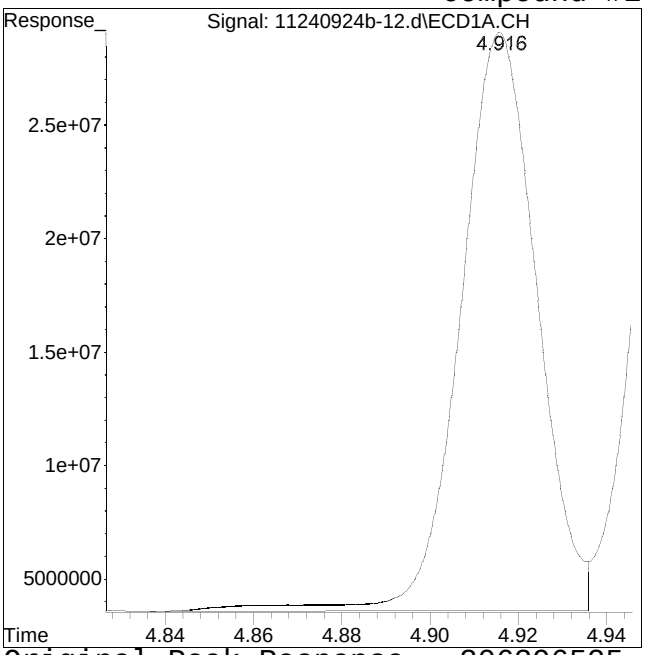


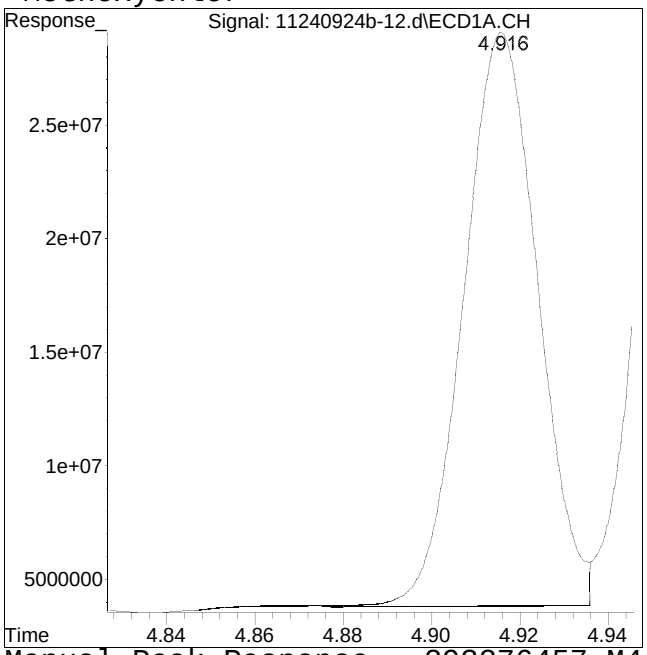
Original Peak Response = 195568302 Manual Peak Response = 189753919 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #23: Methoxychlor



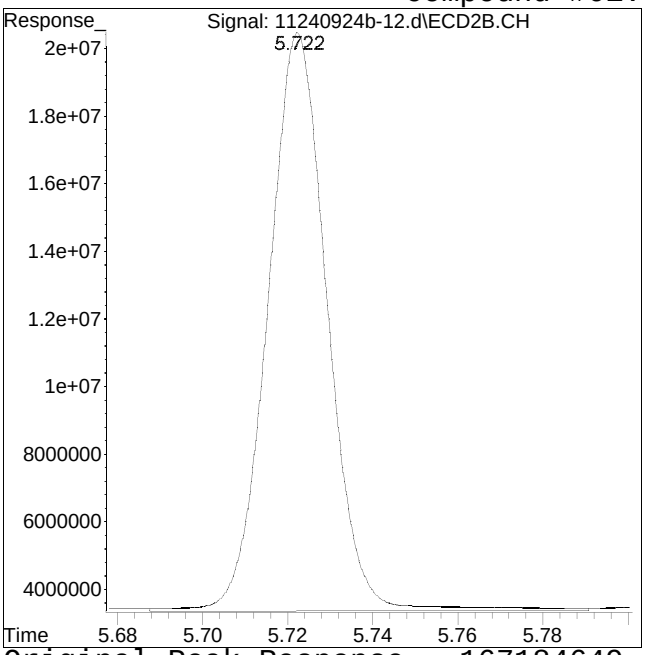


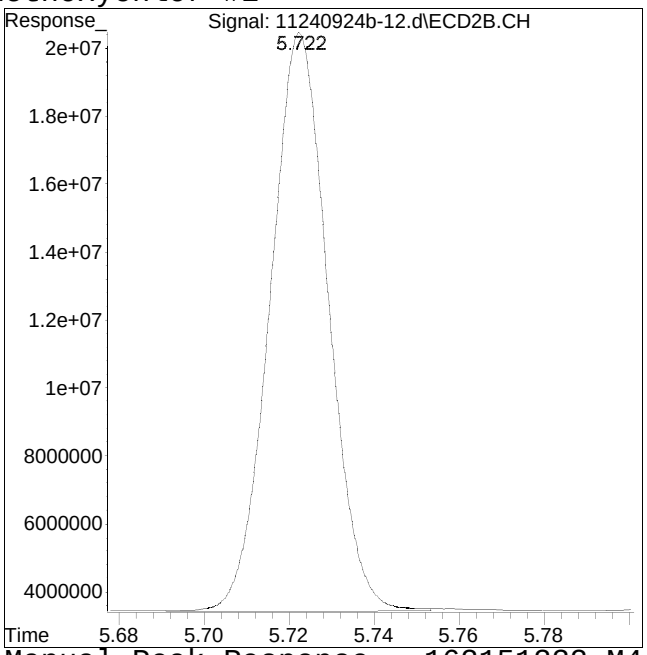
Original Peak Response = 306396525 Manual Peak Response = 293276457 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #61: Methoxychlor #2



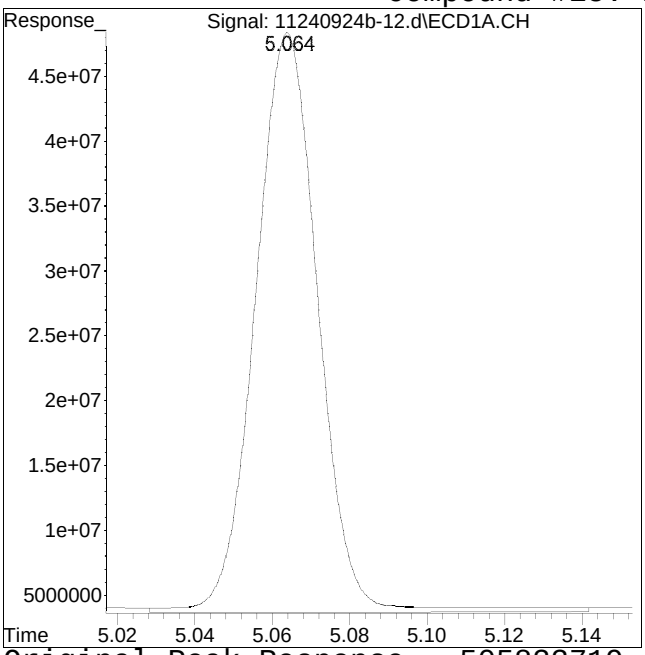


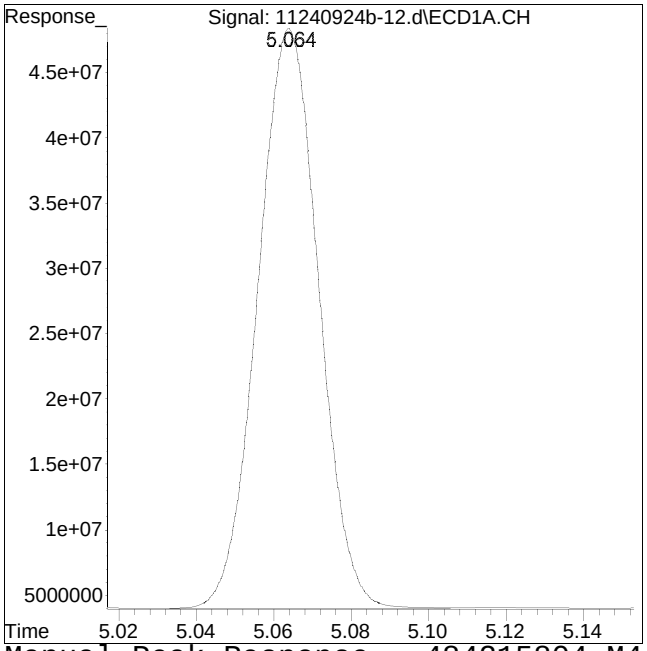
Original Peak Response = 167184649 Manual Peak Response = 162151332 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #25: Endosulfan Sulfate



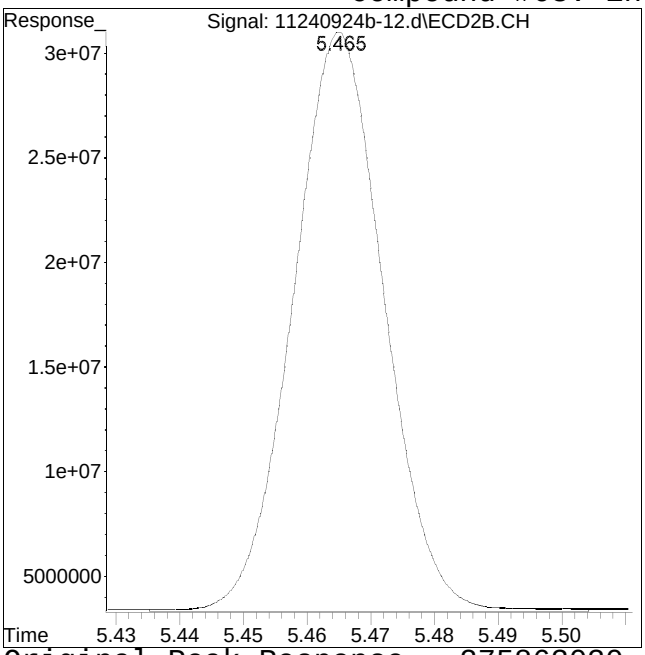


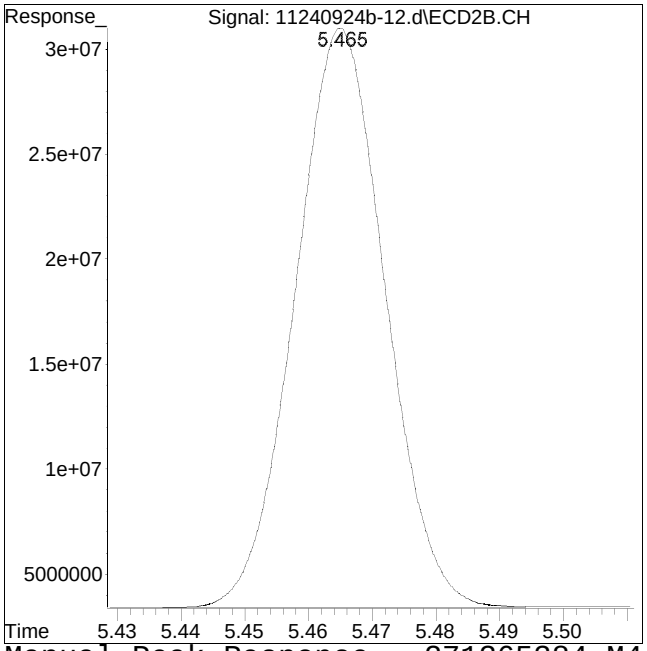
Original Peak Response = 505833719 Manual Peak Response = 484215804 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #63: Endosulfan Sulfate #2



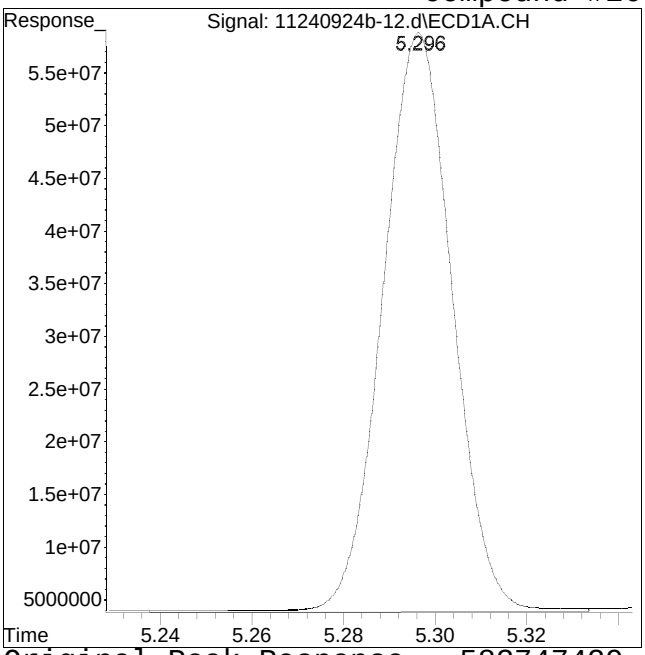


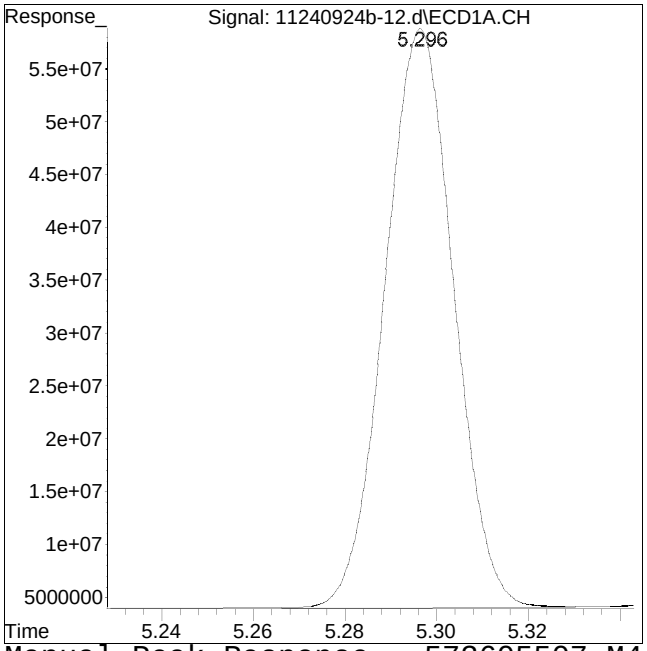
Original Peak Response = 275863030 Manual Peak Response = 271365384 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #26: Endrin Ketone



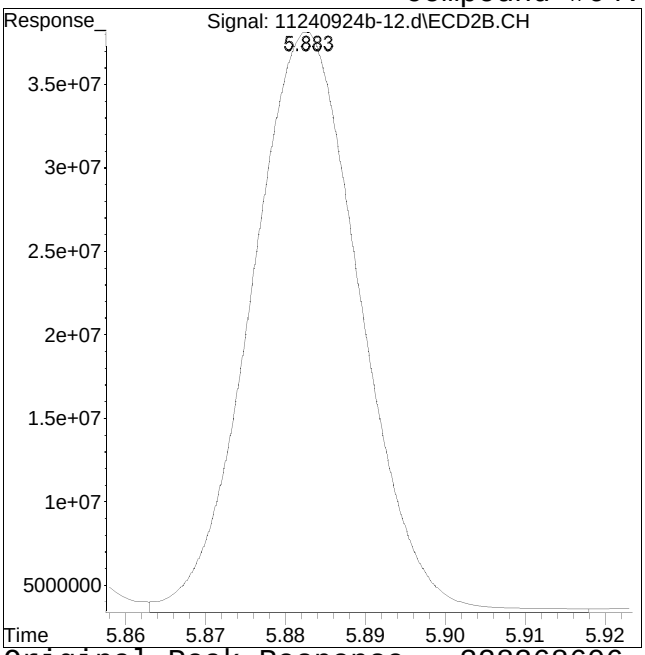


Original Peak Response = 583747429 Manual Peak Response = 573605507 M4
M4 = Poor automated baseline construction.

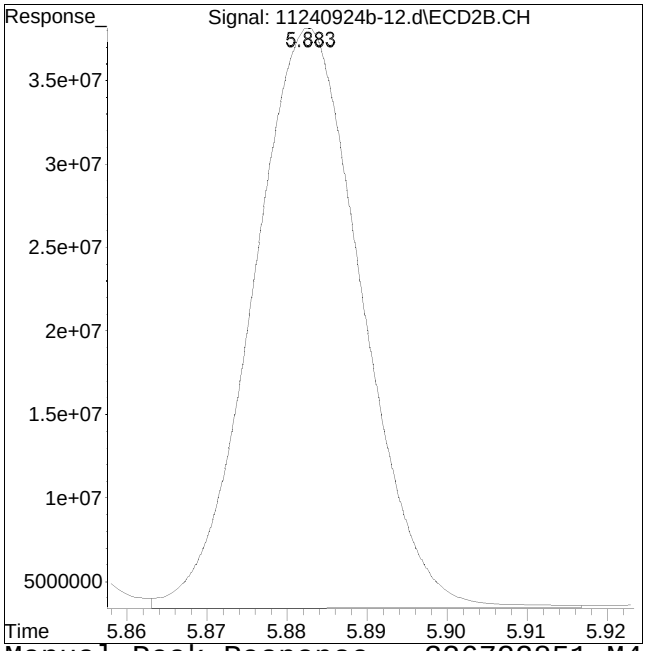
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 328368606

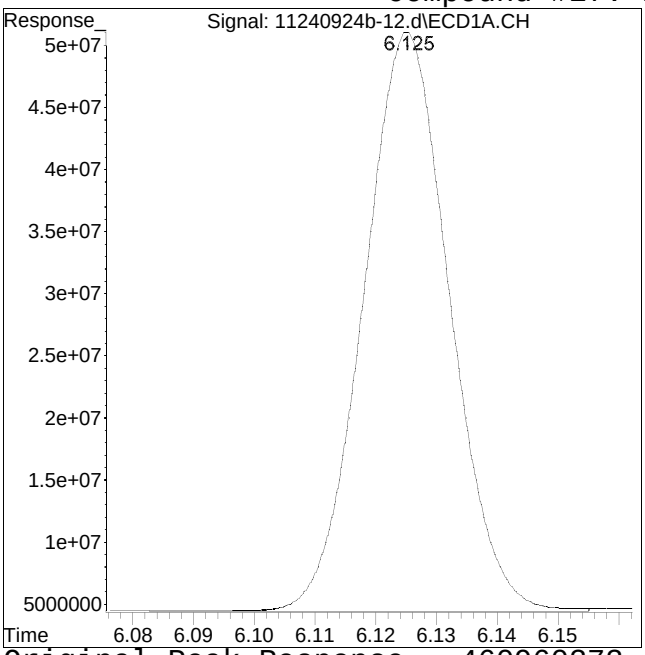


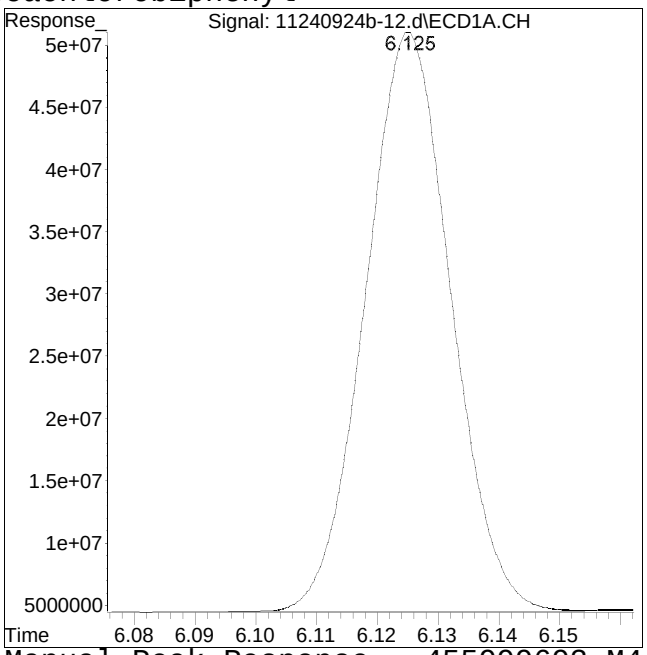
Manual Peak Response = 326722851 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



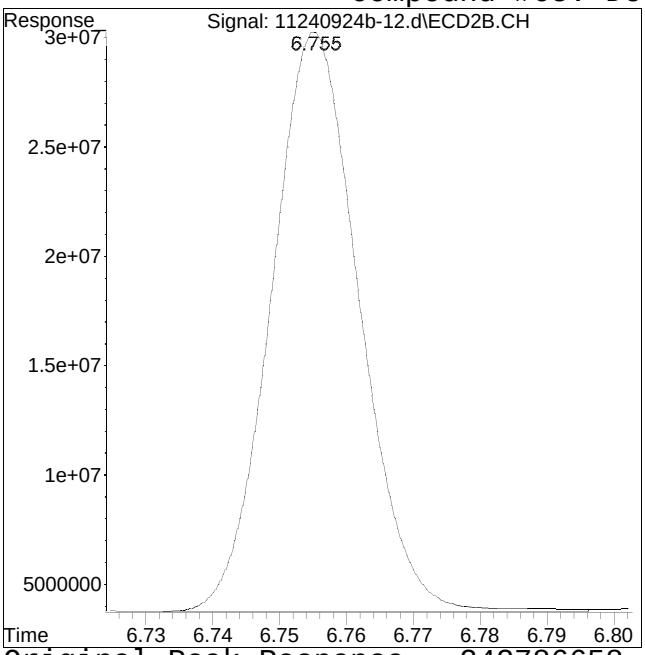


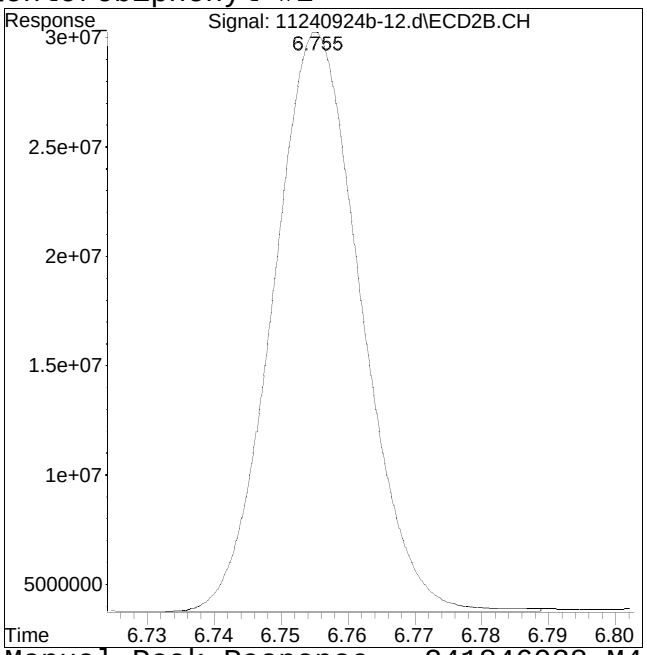
Original Peak Response = 460960373 Manual Peak Response = 455999693 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-12.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:19 Instrument : Pest 11
Sample : WG1975489-4,42,, ms Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 242786658 Manual Peak Response = 241846028 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:31
Operator : PEST11:jag
Sample : WG1975489-5,42,, msd
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:44 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.193	1.265	292.1E6	185.8E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 289113732				Recovery = 101.02%		
	Standard Area 1 : #2 = 192001596				Recovery = 96.76%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.520	1.712	383.5E6	237.8E6	31.593M3	28.733M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 63.19%		57.47%	
27) s	Decachlorobi	6.126	6.756	461.7E6	243.7E6	33.982M4	30.945M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 67.96%		61.89%	
Target Compounds							
4) t	alpha-BHC	1.814	2.101	641.5E6	387.9E6	37.601M3	32.229M4
5) t	gamma-BHC (l	2.005	2.371	594.3E6	354.1E6	36.455M4	30.960M4
6) t	beta-BHC	2.059	2.435	259.3E6	156.4E6	35.356M4	33.162M4
7) t	delta-BHC	2.180	2.688	530.9E6	304.8E6	33.077M4	26.936M4
8) t	Heptachlor	2.334	2.745	601.1E6	340.2E6	38.950M4	28.655M4
9) t	Aldrin	2.564	3.048	532.0E6	315.6E6	36.931M4	29.598M4
12) t	Heptachlor E	3.084	3.637	524.9E6	301.8E6	37.904M4	28.494M4
13) t	gamma-Chlord	3.204	3.851	541.5E6	313.0E6	43.041M4	32.119M4
14) t	alpha-Chlord	3.333	4.018	507.1E6	310.9E6	35.688M4	28.938M4
15) t	4,4'-DDE	3.430	4.237	525.1E6	307.4E6	37.719M4	30.808M4
16) t	Endosulfan I	3.461	4.080	494.4E6	292.9E6	37.919M4	29.589M4
17) t	Dieldrin	3.712	4.396	565.2E6	329.8E6	42.623M4	33.437M4
18) t	Endrin	3.958	4.710	536.1E6	309.3E6	39.807M4	30.907
19) t	4,4'-DDD	4.080	4.850	455.7E6	267.2E6	42.061M4	33.175M4
20) t	Endosulfan I	4.212	4.921	476.2E6	275.4E6	38.746M4	30.538M4
21) t	4,4'-DDT	4.396	5.137	494.5E6	290.0E6	39.993M4	31.213M4

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:31
Operator : PEST11:jag
Sample : WG1975489-5,42,, msd
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21365 (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:44 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest11\2024\240924B\11240924b-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t Endrin Aldeh	4.656	5.230	309.2E6	182.9E6	29.856M4	26.178M4
23) t Methoxychlor	4.916	5.723	292.6E6	162.2E6	42.312M4	30.994M4
25) t Endosulfan S	5.064	5.465	462.7E6	260.4E6	39.225M4	29.229M4
26) t Endrin Keton	5.297	5.883	560.7E6	318.0E6	40.565M4	33.945M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-2			0	0	N.D.	N.D.
Average toxaphene-2					0.000	0.000

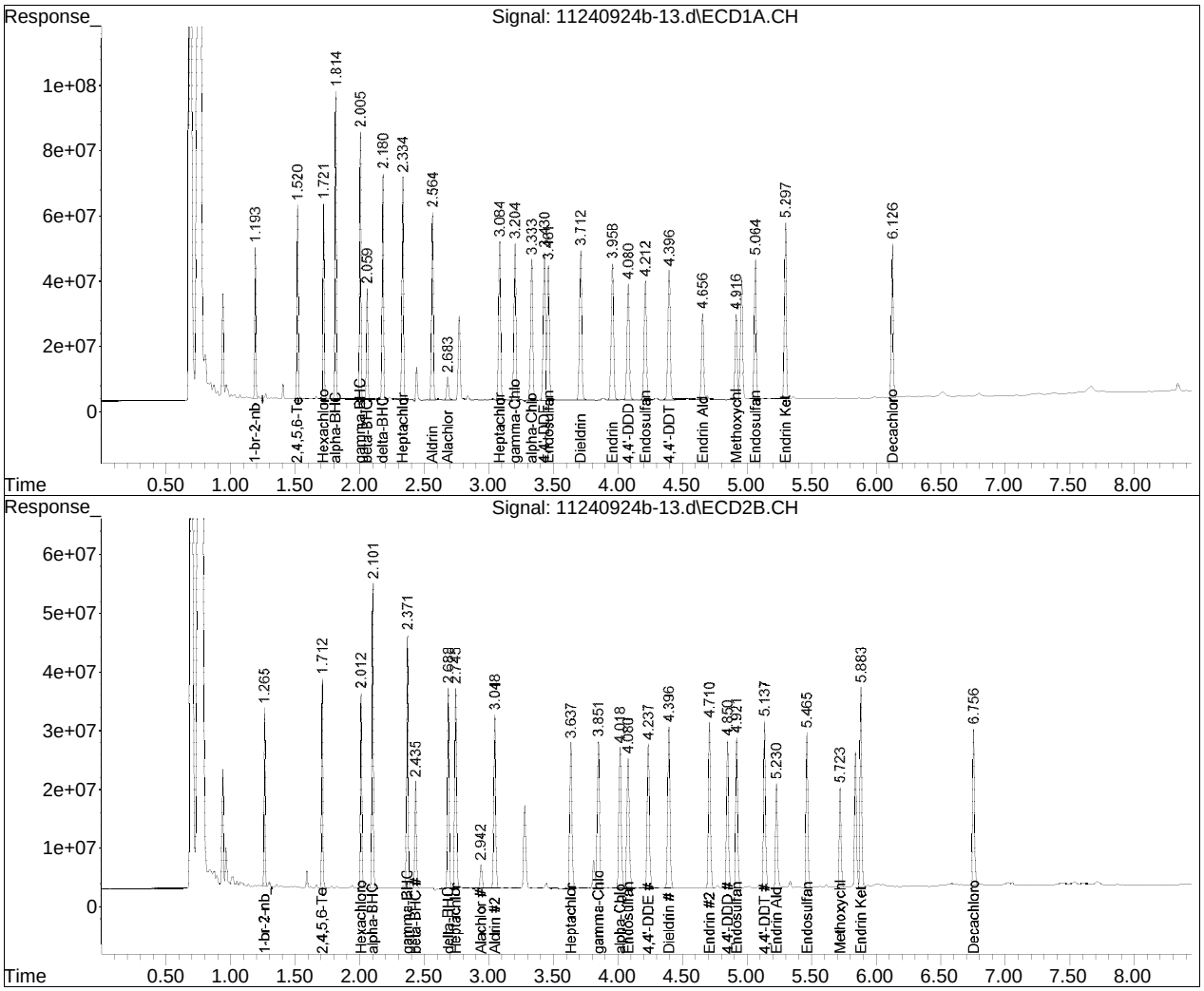
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only1\2024\240924B\11240924b-03.d•

Data Path : I:\PEST\Pest11\2024\240924B\
Data File : 11240924b-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Sep 2024 23:31
Operator : PEST11:jag
Sample : WG1975489-5,42,, msd
Misc : wg1975804,WG1975489,ical21365 (Sig #1); wg1975489,WG1975489,ical21
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 14:26:44 2024
Quant Method : I:\PEST\Pest11\2024\240924B\pest11_08_01_24_ugL_ICAL21365.M
Quant Title : pest
QLast Update : Wed Sep 25 08:32:51 2024
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

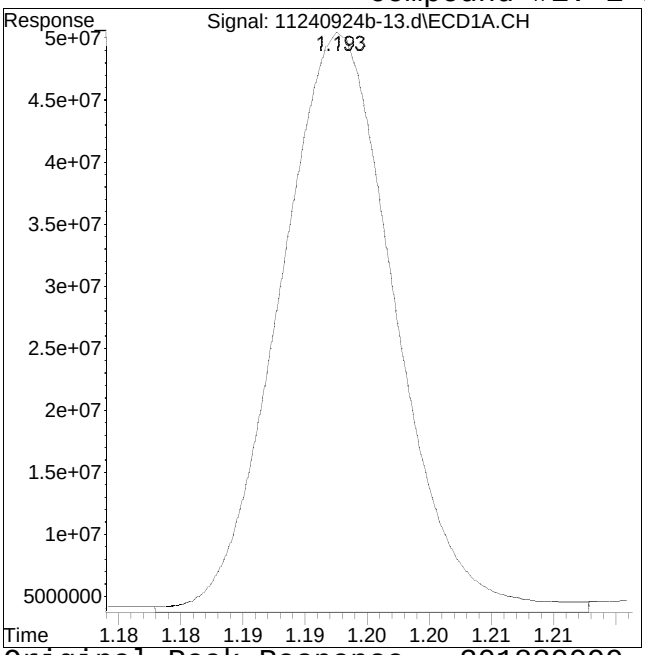
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

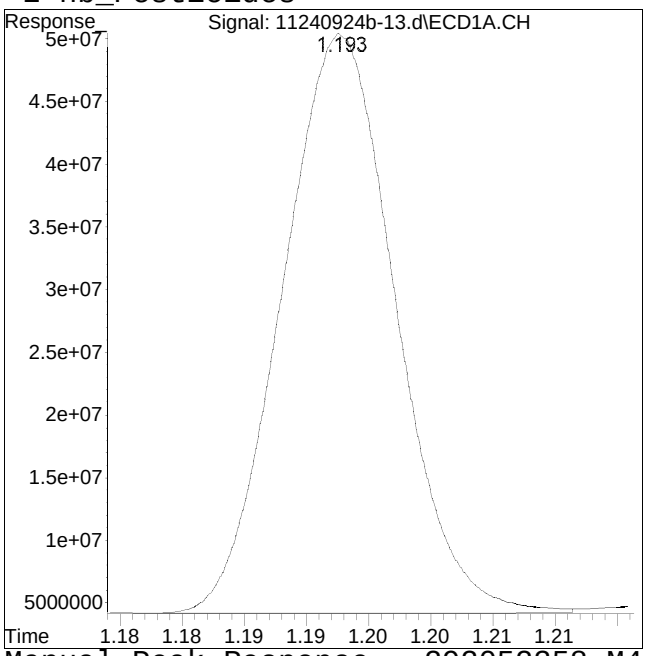


Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #1: 1-br-2-nb_Pesticides



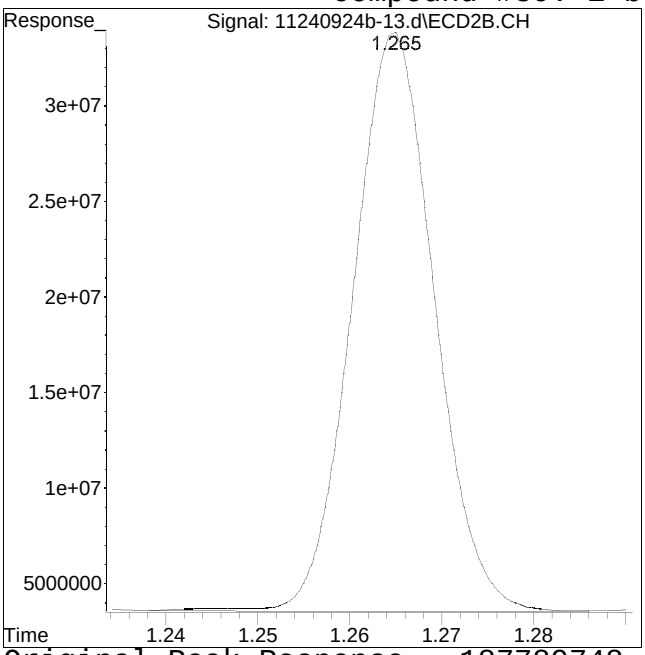


Original Peak Response = 301839999 Manual Peak Response = 292052358 M4
M4 = Poor automated baseline construction.

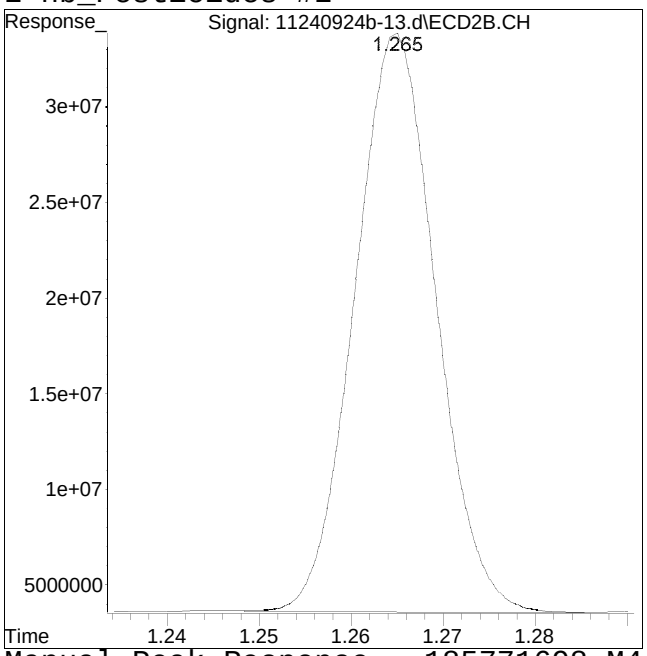
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 187789748



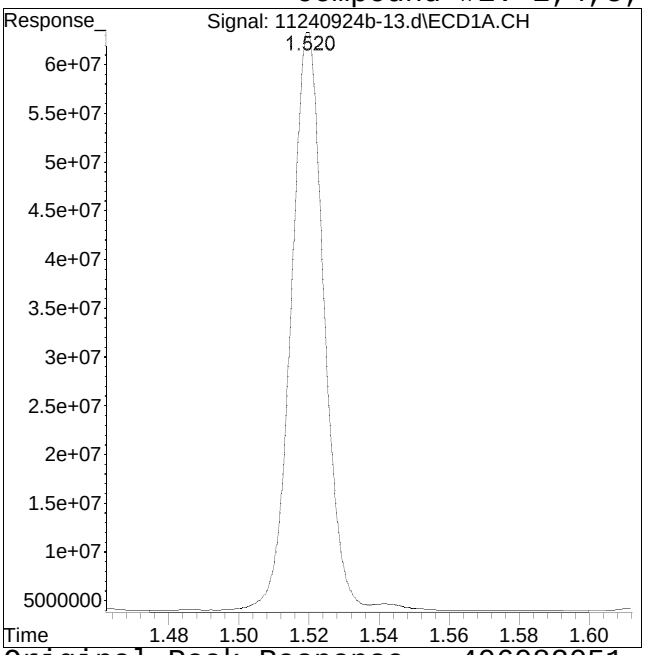
Manual Peak Response = 185771698 M4

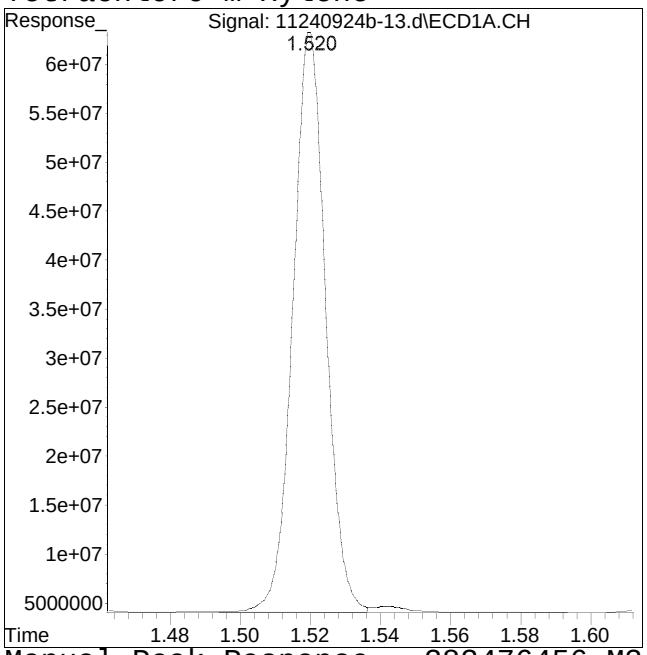
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



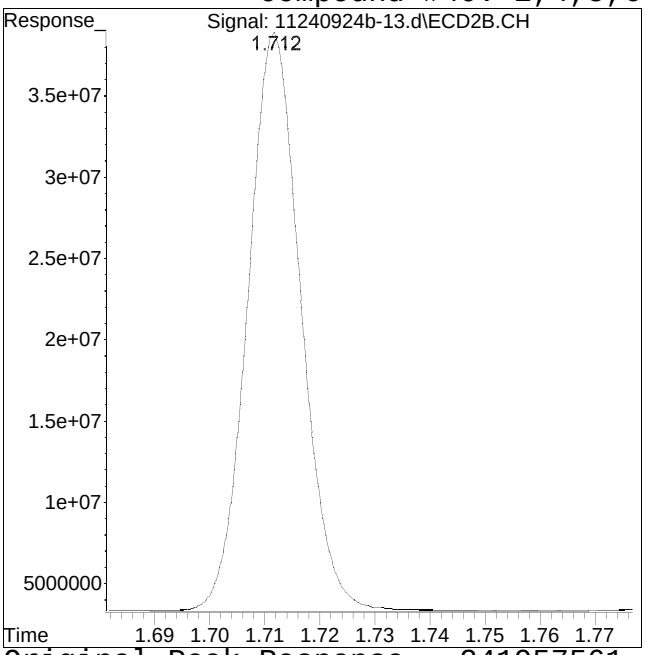


Original Peak Response = 406082051 Manual Peak Response = 383476456 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

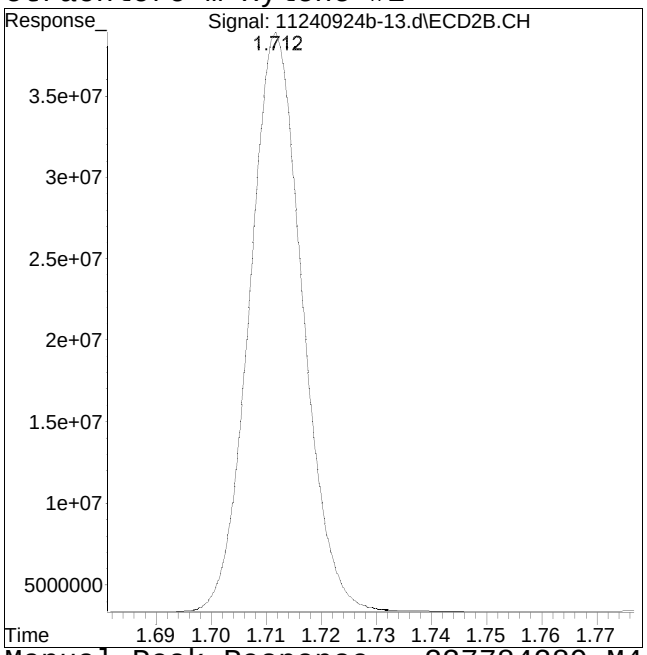
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 241957561



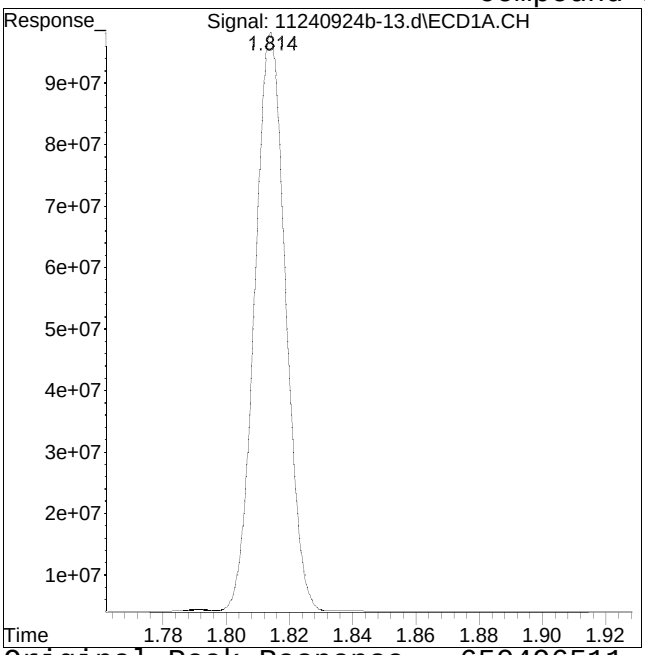
Manual Peak Response = 237784289 M4

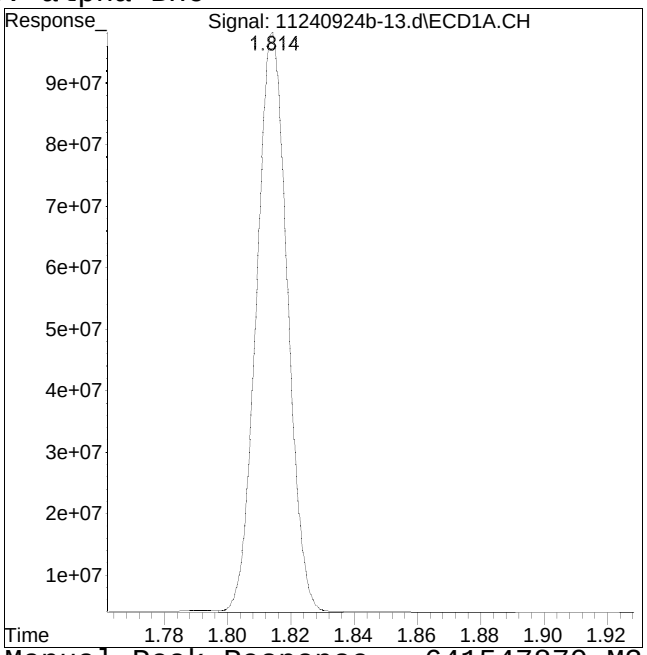
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #4: alpha-BHC



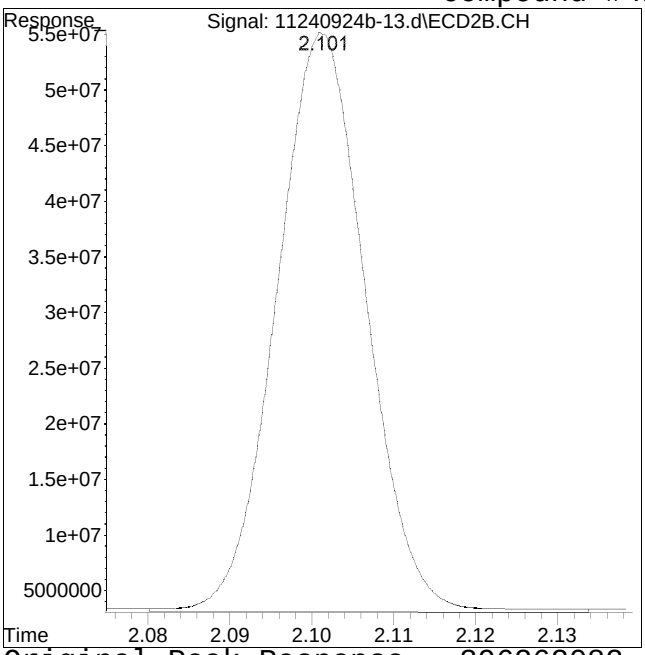


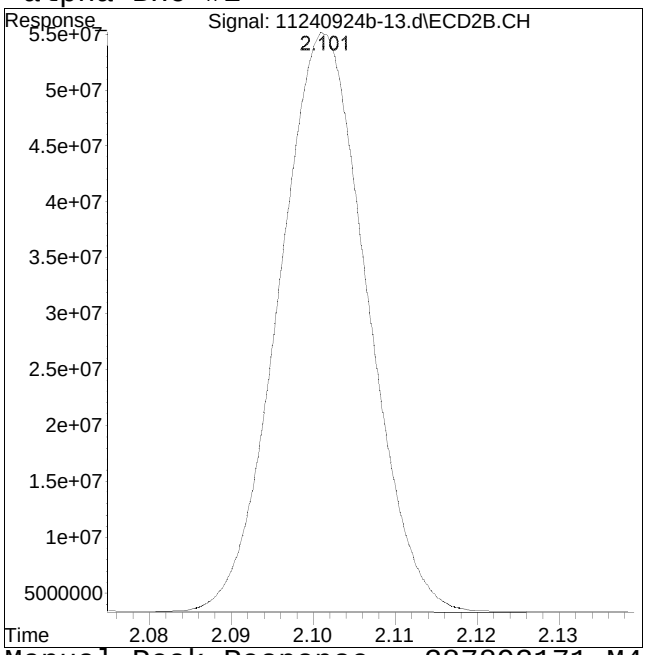
Original Peak Response = 650496511 Manual Peak Response = 641547870 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #42: alpha-BHC #2



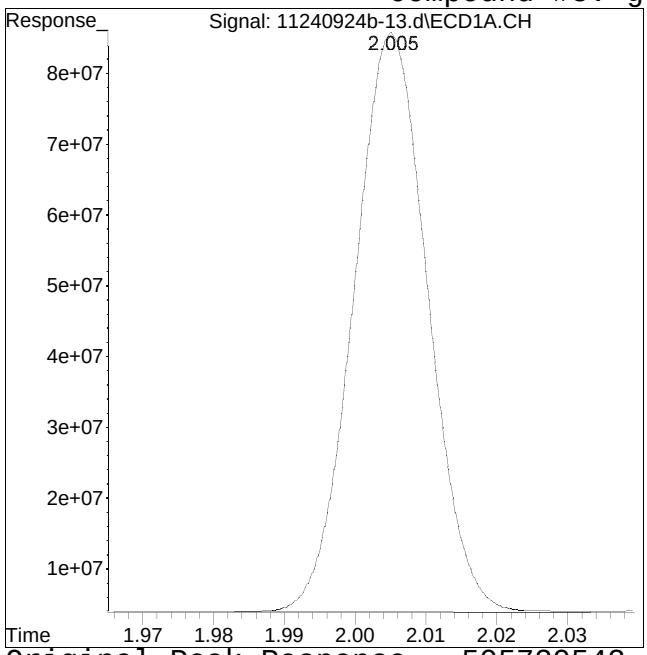


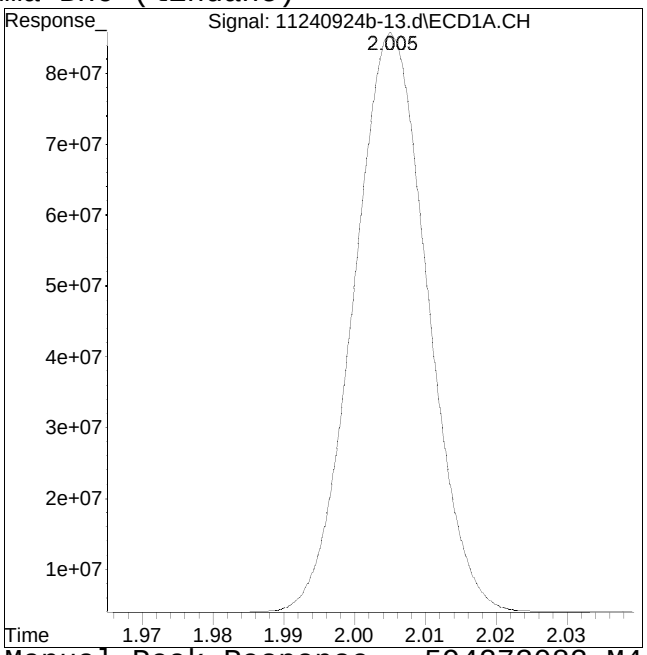
Original Peak Response = 396262082 Manual Peak Response = 387893171 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #5: gamma-BHC (lindane)



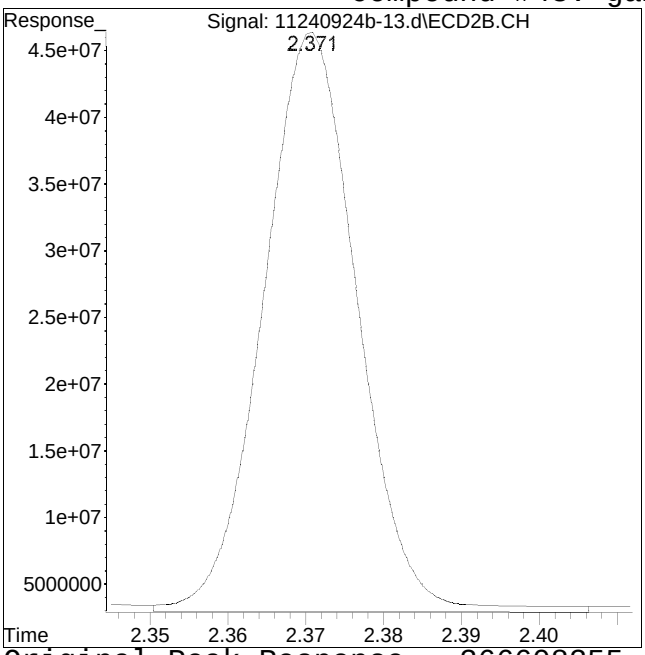


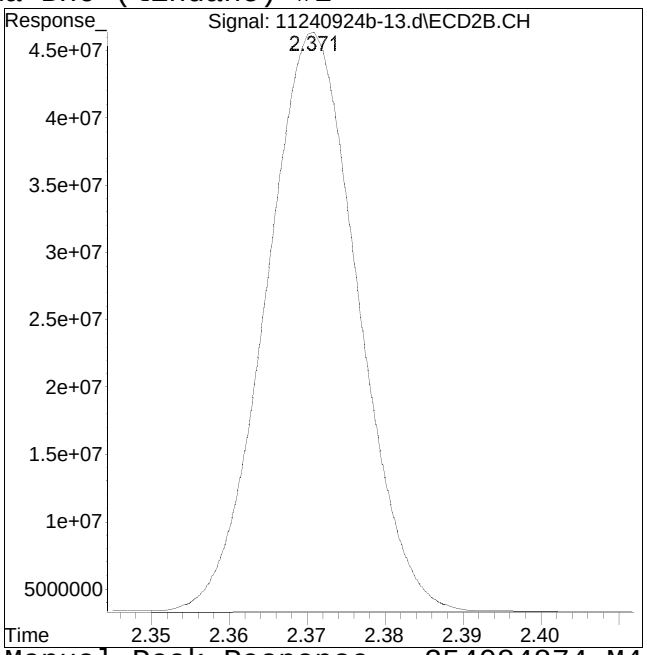
Original Peak Response = 595729542 Manual Peak Response = 594273082 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #43: gamma-BHC (lindane) #2



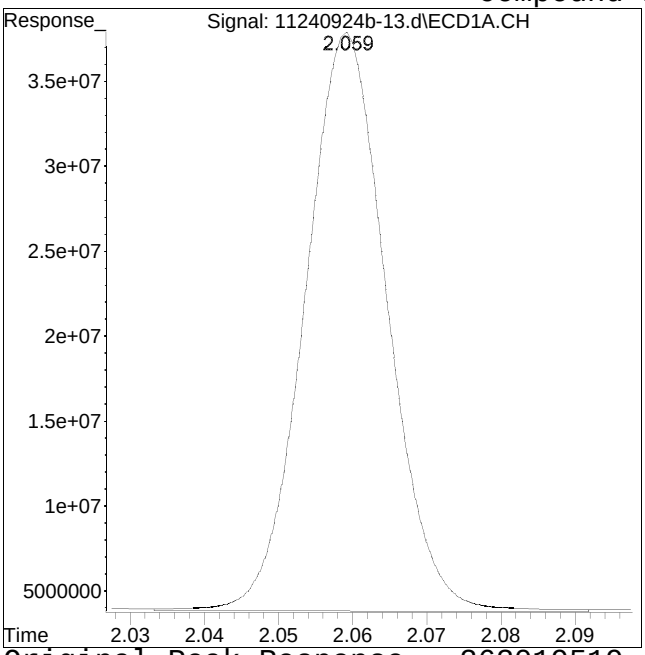


Original Peak Response = 366608355 Manual Peak Response = 354084874 M4
M4 = Poor automated baseline construction.

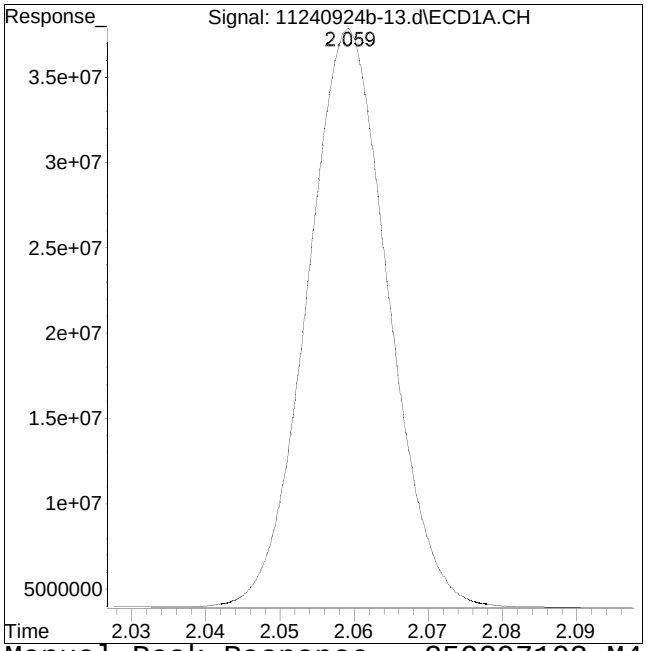
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #6: beta-BHC



Original Peak Response = 263019519

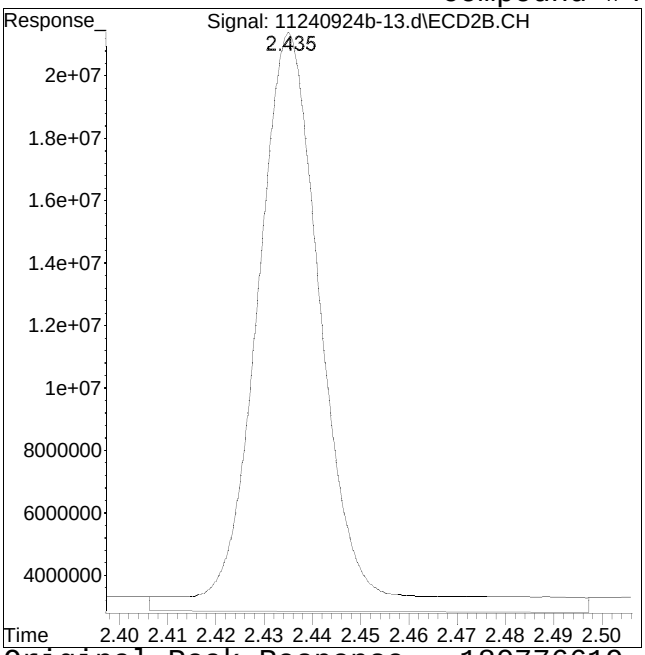


Manual Peak Response = 259297103 M4
M4 = Poor automated baseline construction.

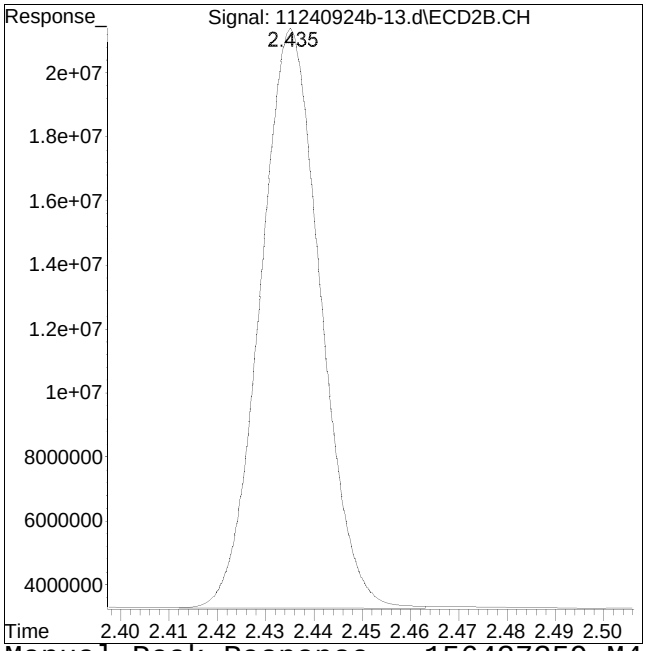
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #44: beta-BHC #2



Original Peak Response = 180776619



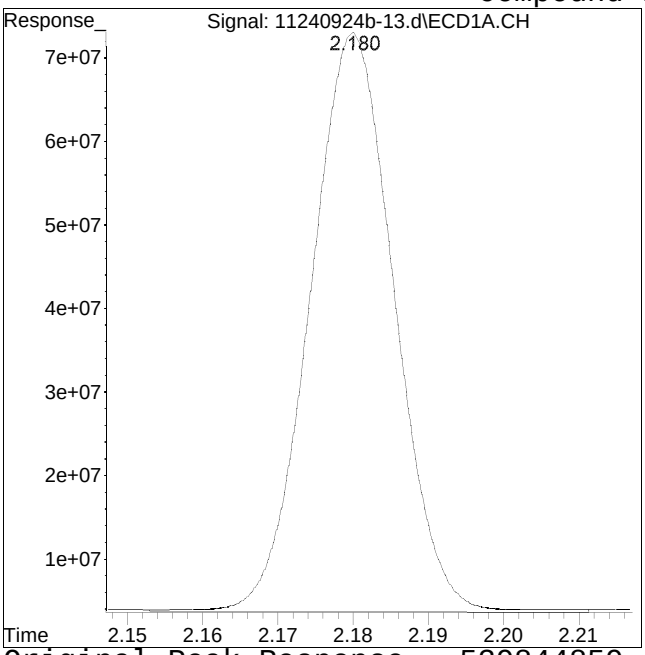
Manual Peak Response = 156437359 M4

M4 = Poor automated baseline construction.

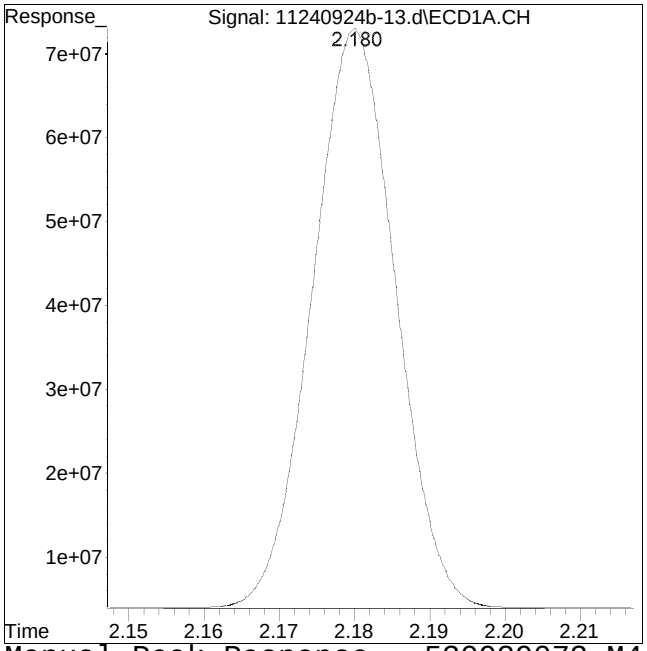
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #7: delta-BHC



Original Peak Response = 539844859



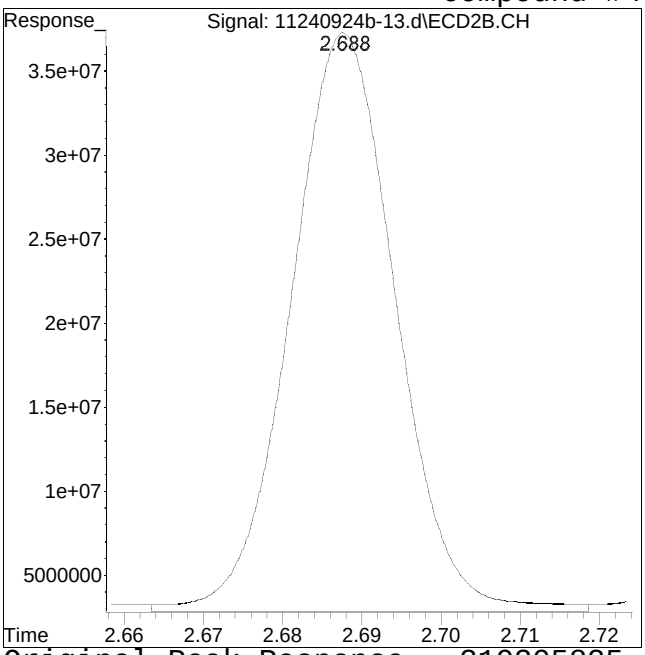
Manual Peak Response = 530939073 M4

M4 = Poor automated baseline construction.

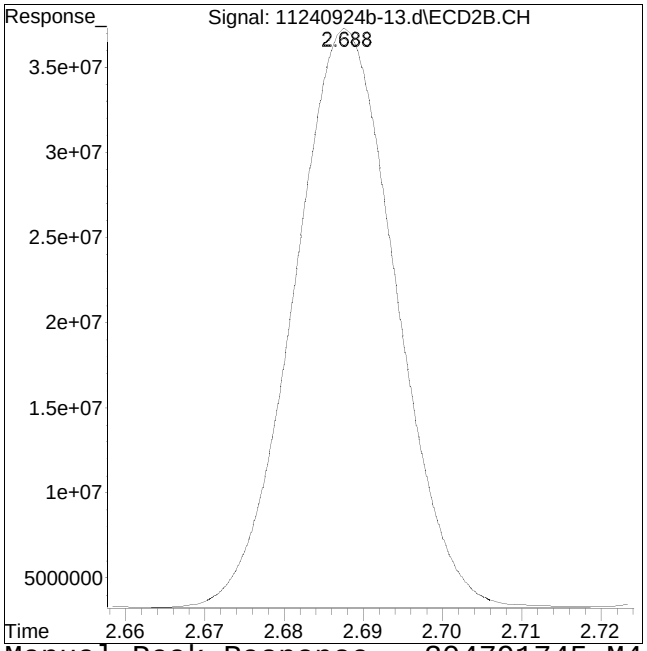
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #45: delta-BHC #2



Original Peak Response = 319305825



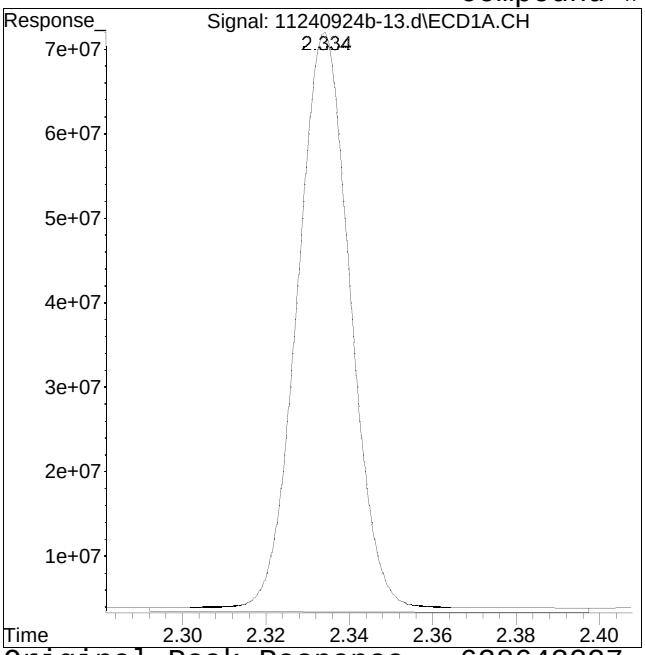
Manual Peak Response = 304791745 M4

M4 = Poor automated baseline construction.

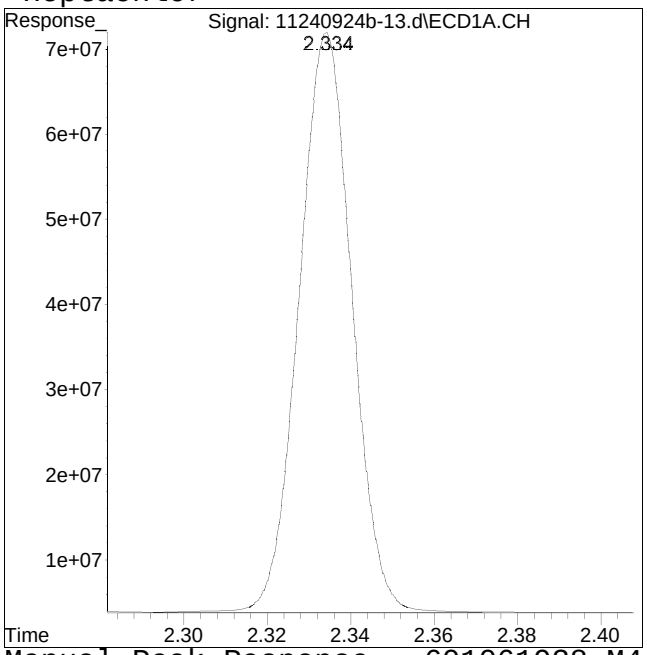
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #8: Heptachlor



Original Peak Response = 628643227



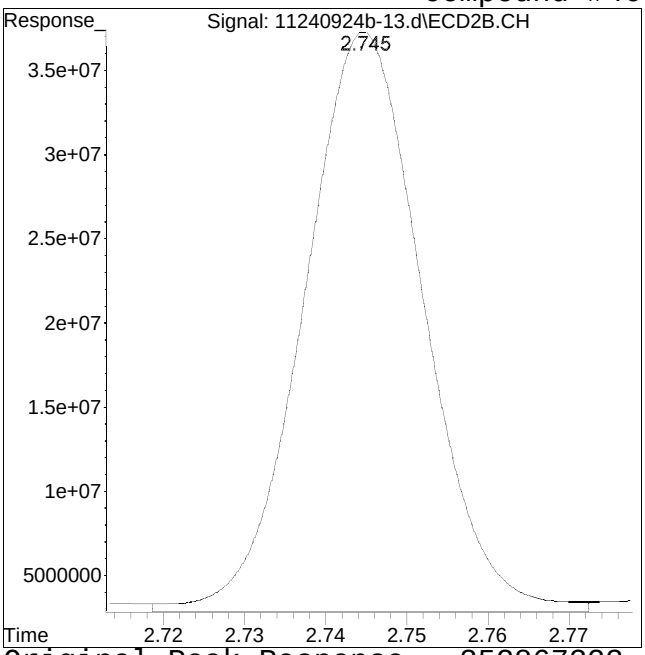
Manual Peak Response = 601061938 M4

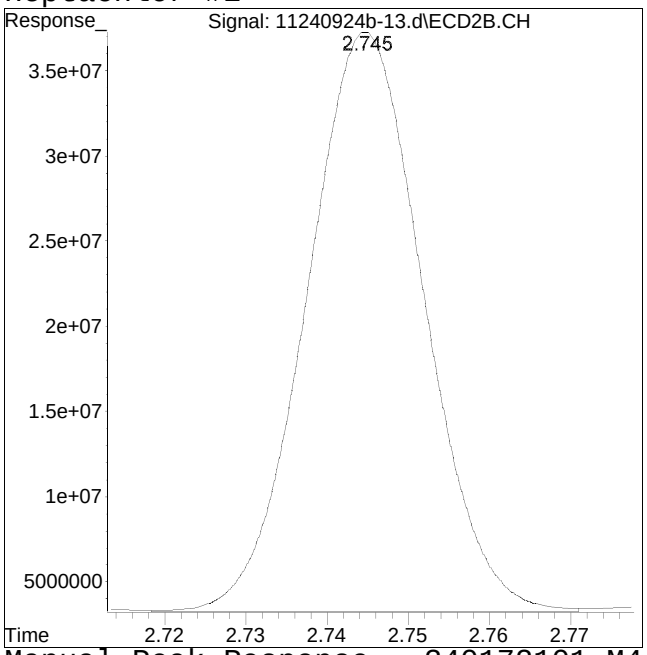
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #46: Heptachlor #2



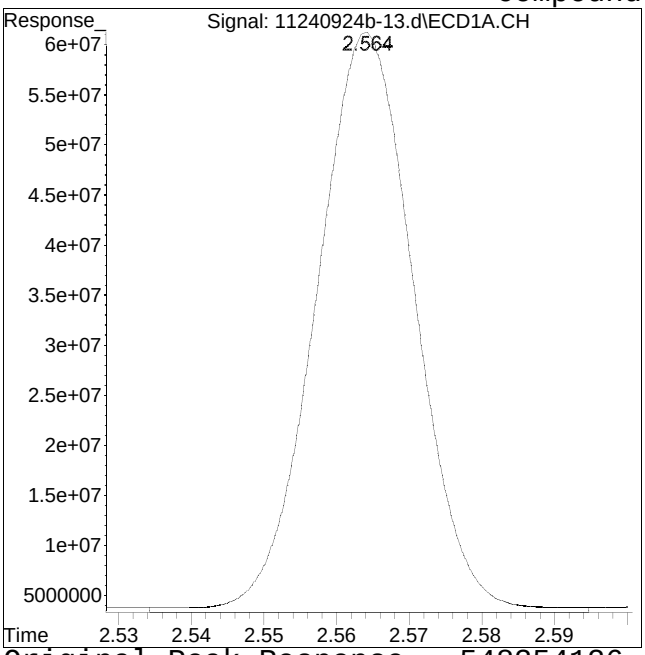


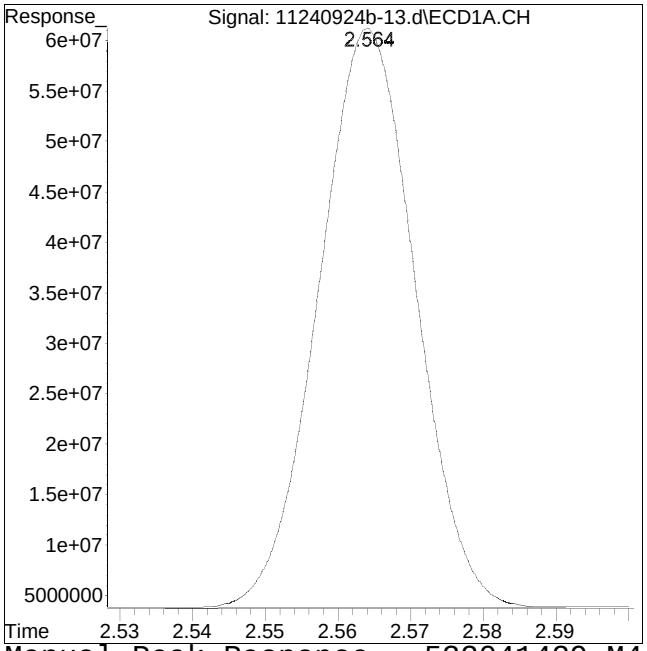
Original Peak Response = 352867323 Manual Peak Response = 340172101 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #9: Aldrin



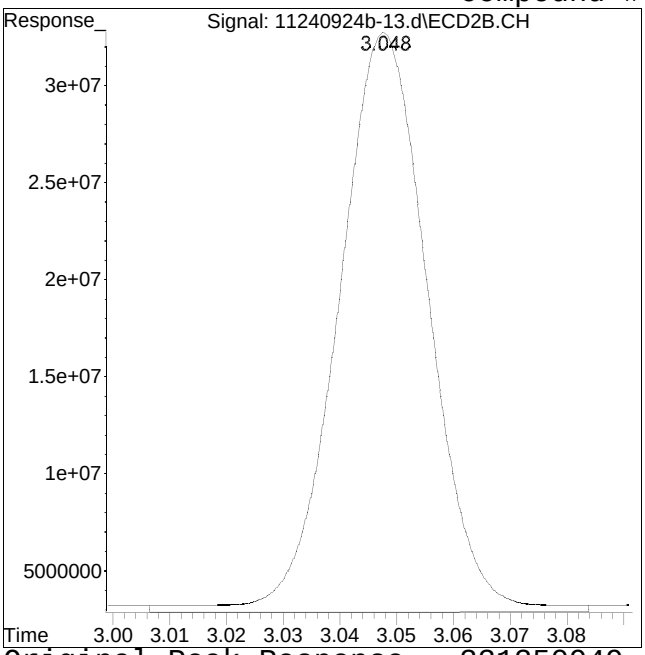


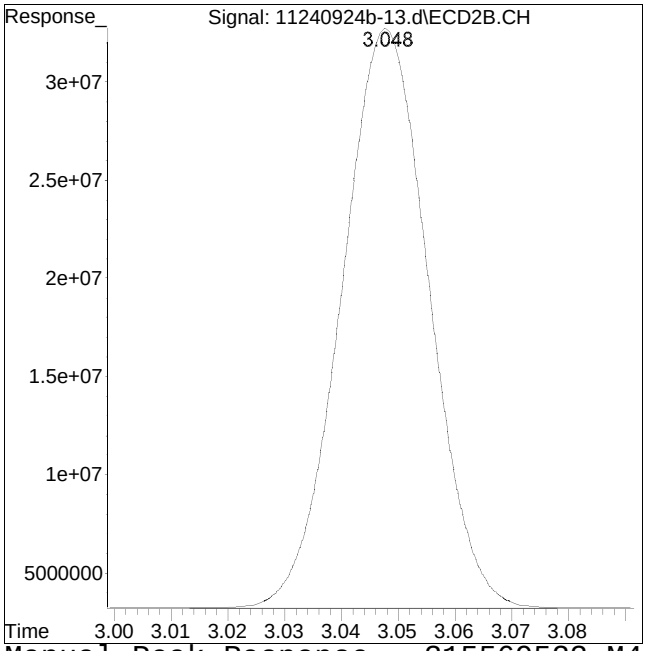
Original Peak Response = 548354126 Manual Peak Response = 532041429 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #47: Aldrin #2



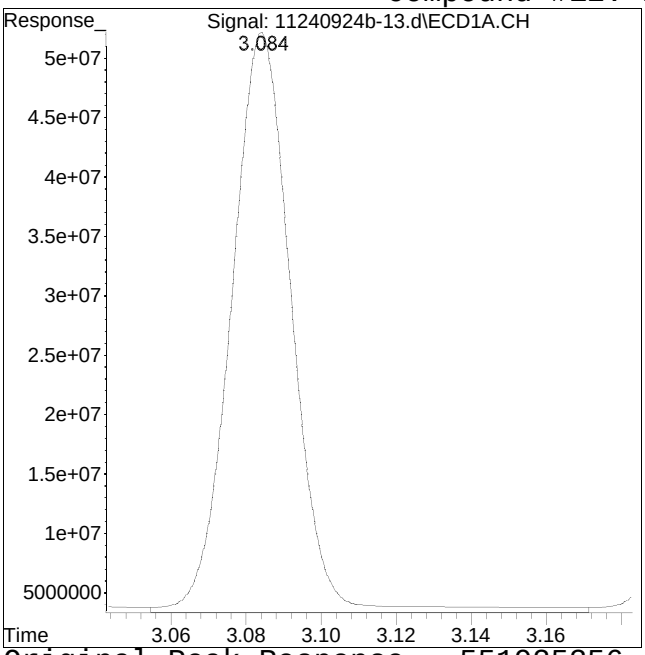


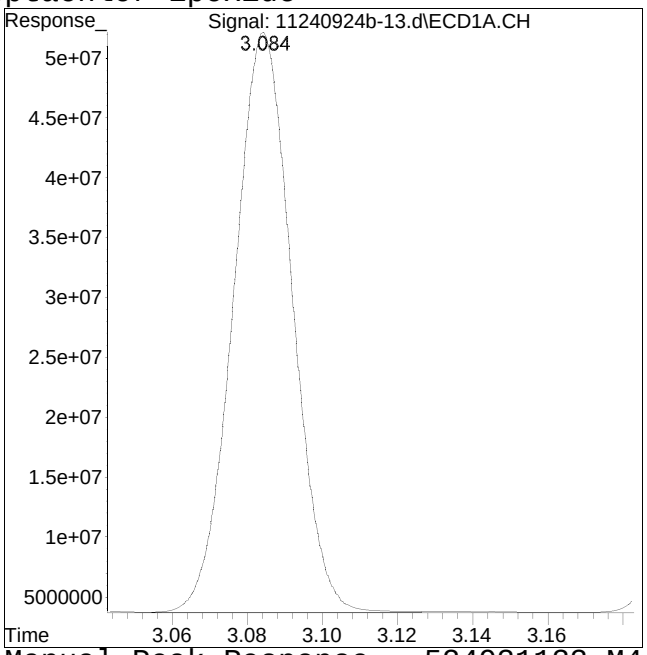
Original Peak Response = 331350949 Manual Peak Response = 315569523 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #12: Heptachlor Epoxide



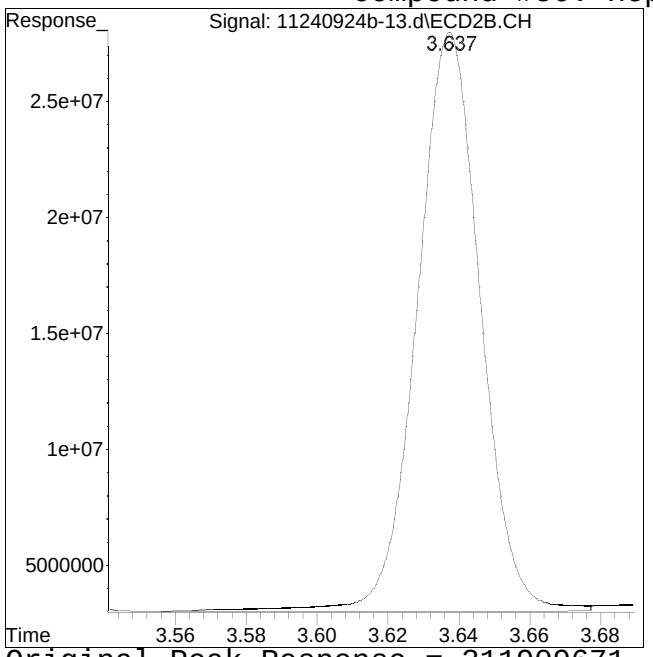


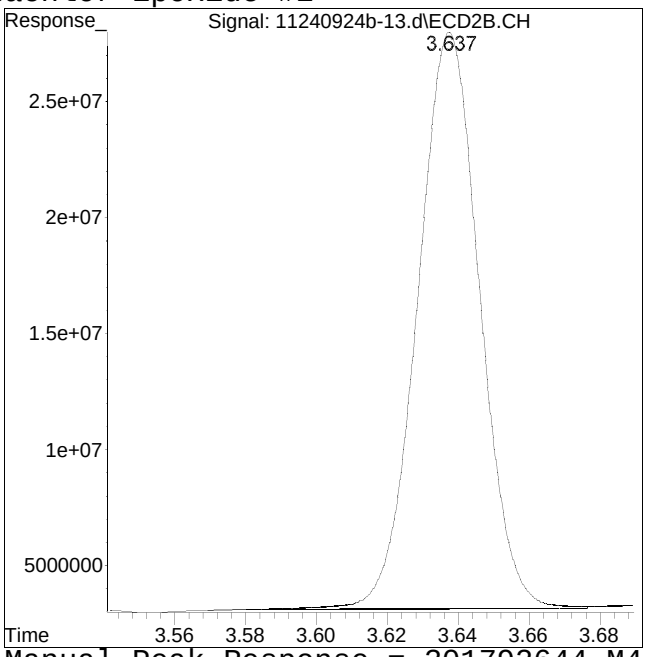
Original Peak Response = 551925356 Manual Peak Response = 524931133 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #50: Heptachlor Epoxide #2



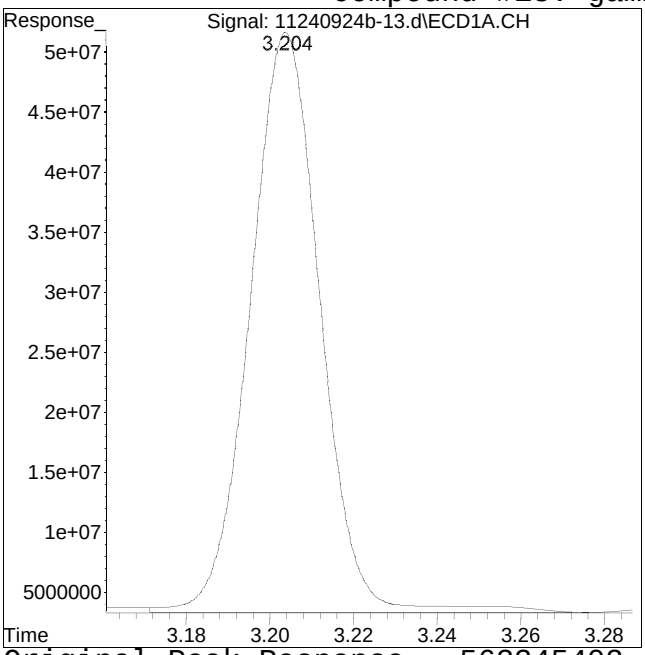


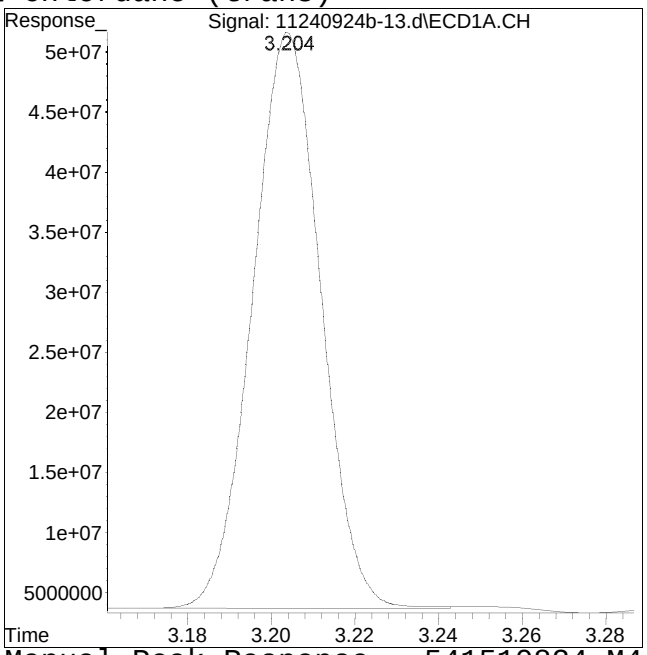
Original Peak Response = 311909671 Manual Peak Response = 301792644 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #13: gamma-Chlordane (trans)



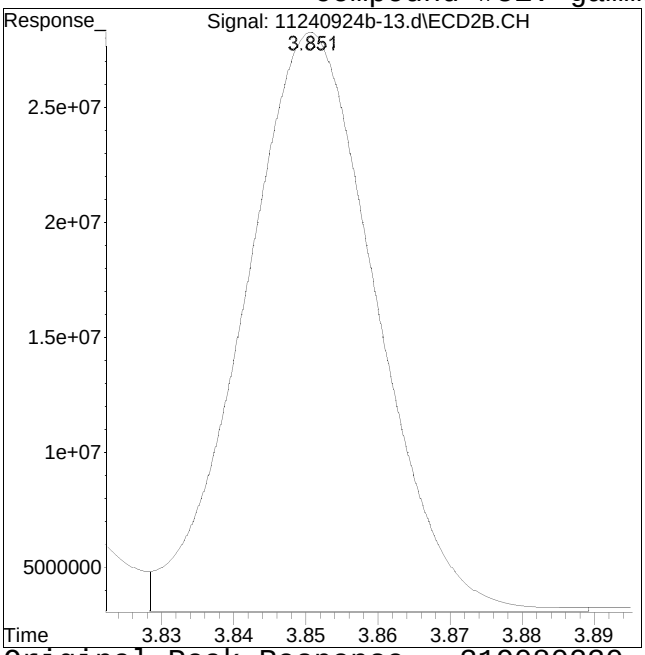


Original Peak Response = 563345402 Manual Peak Response = 541510824 M4
M4 = Poor automated baseline construction.

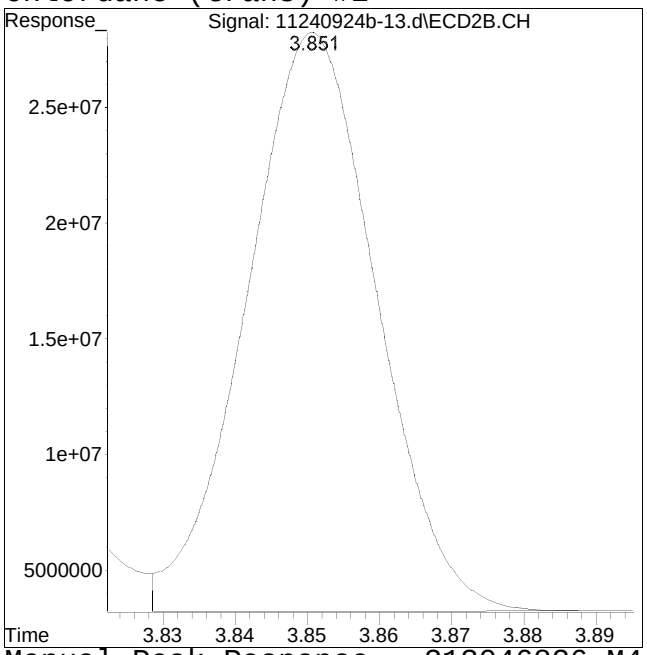
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 319080230

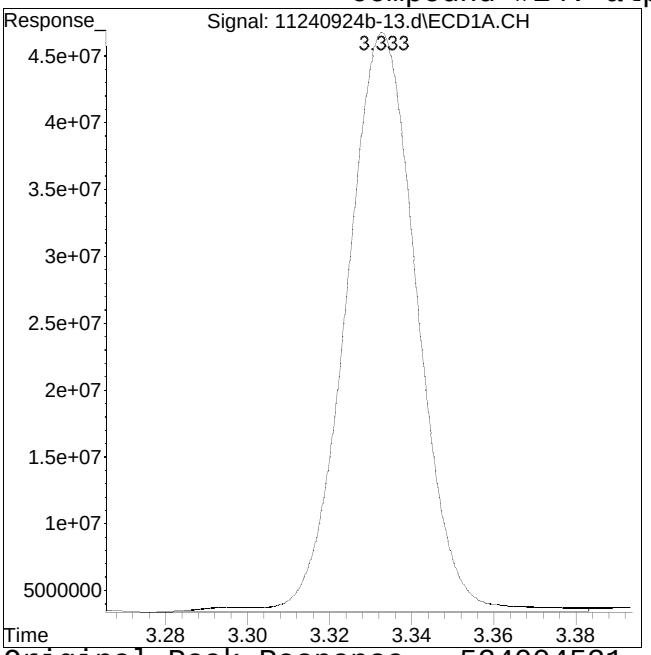


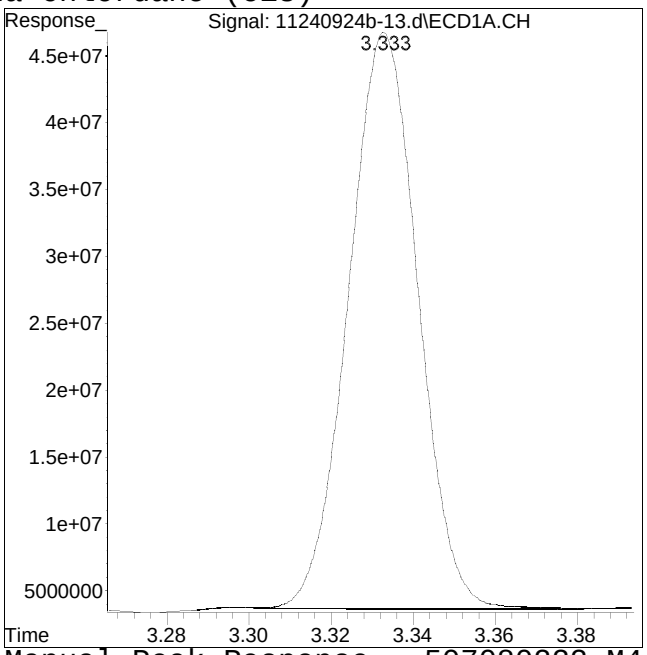
Manual Peak Response = 313046826 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #14: alpha-Chlordane (cis)



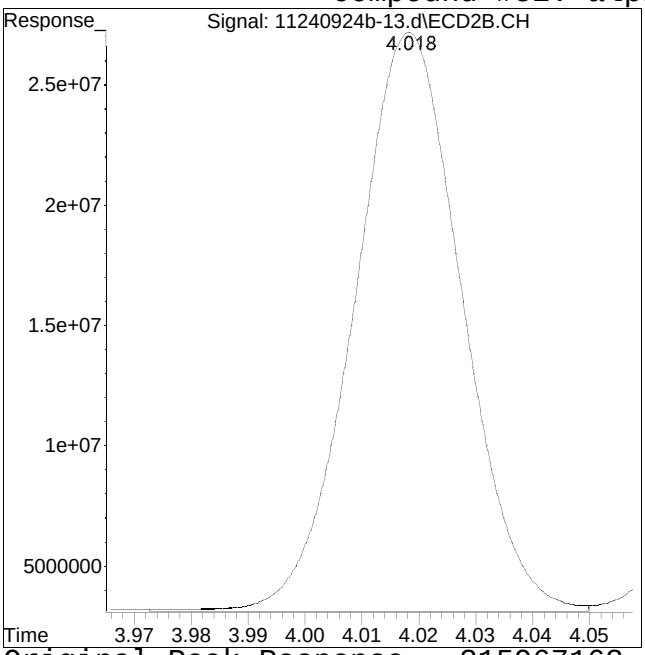


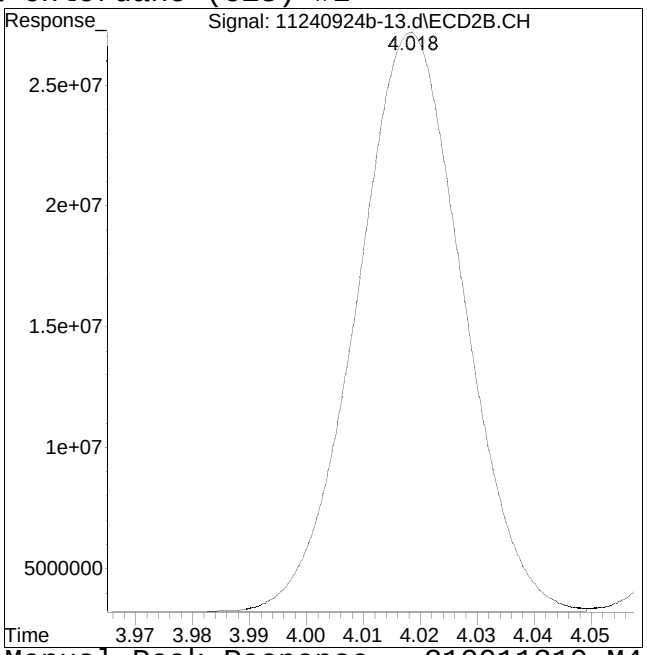
Original Peak Response = 524004531 Manual Peak Response = 507080222 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #52: alpha-Chlordane (cis) #2



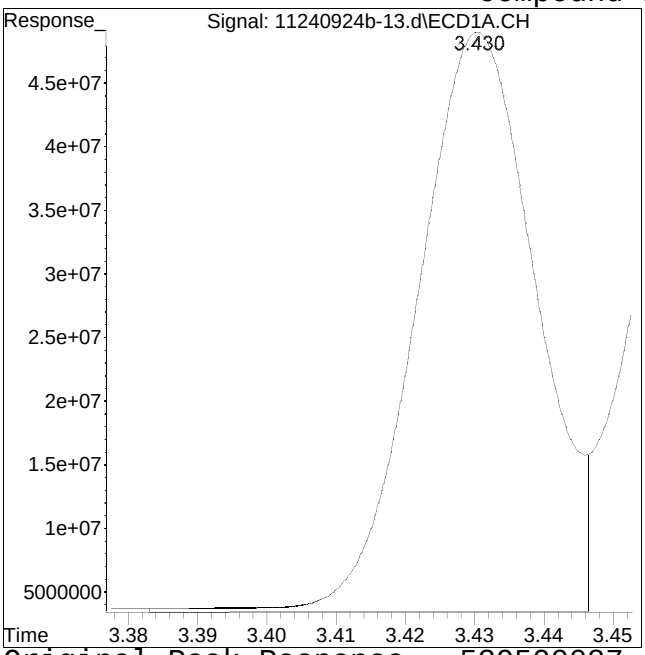


Original Peak Response = 315967163 Manual Peak Response = 310911310 M4
M4 = Poor automated baseline construction.

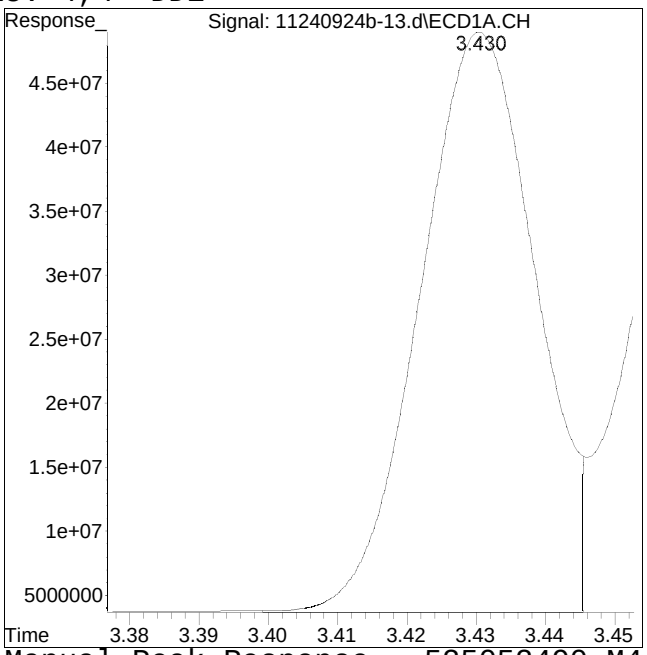
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #15: 4,4'-DDE



Original Peak Response = 539500087



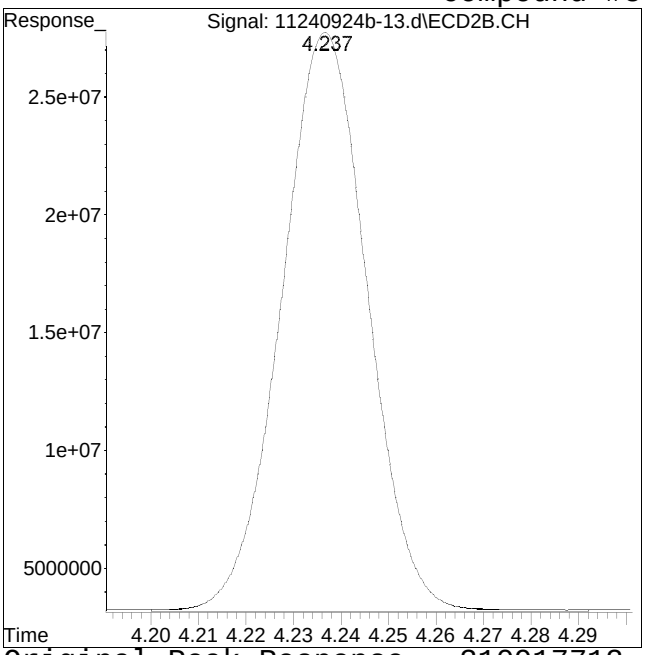
Manual Peak Response = 525052490 M4

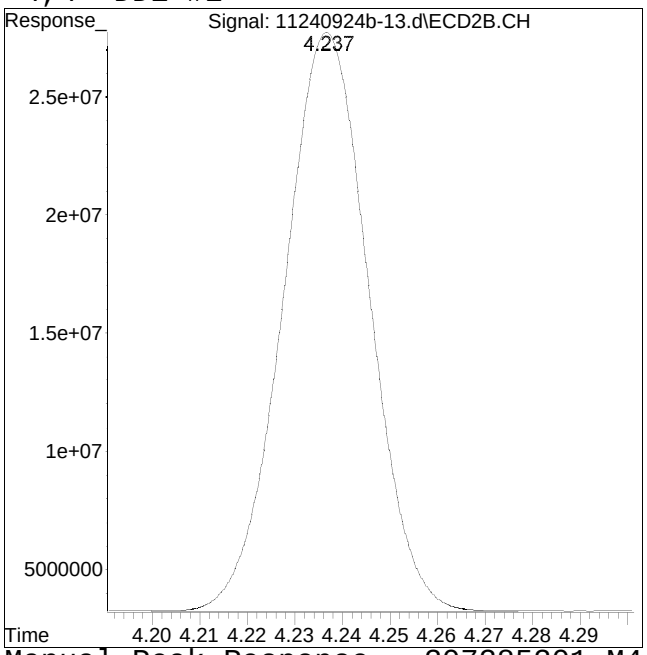
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #53: 4,4'-DDE #2



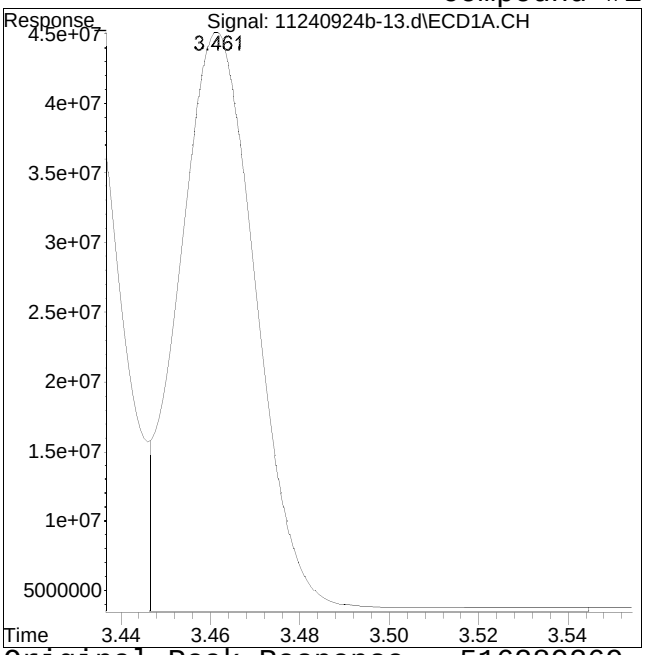


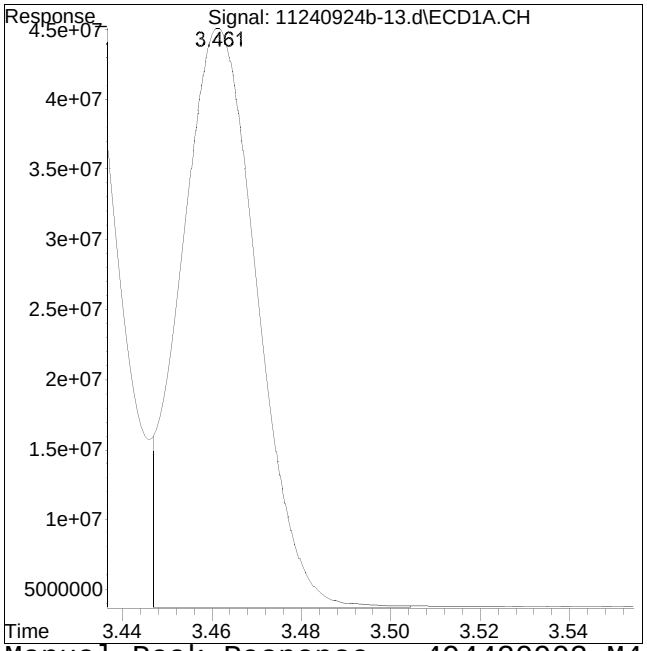
Original Peak Response = 310917712 Manual Peak Response = 307385301 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #16: Endosulfan I



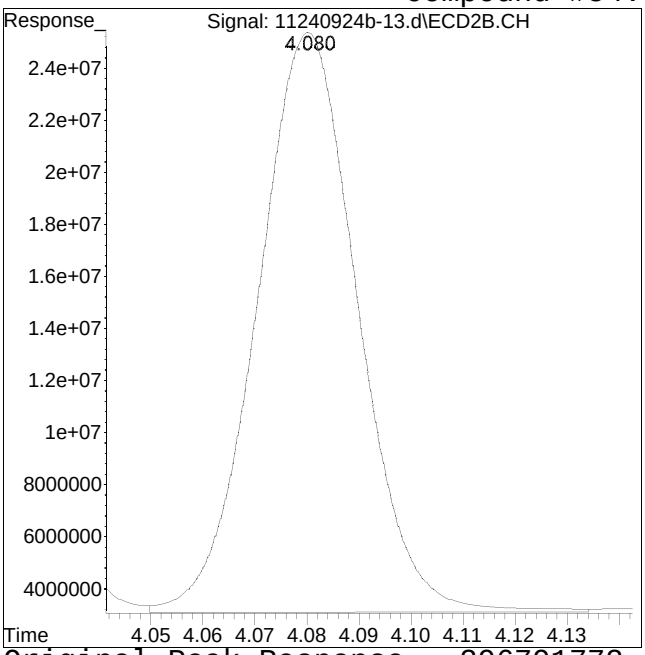


Original Peak Response = 516289269 Manual Peak Response = 494420903 M4
M4 = Poor automated baseline construction.

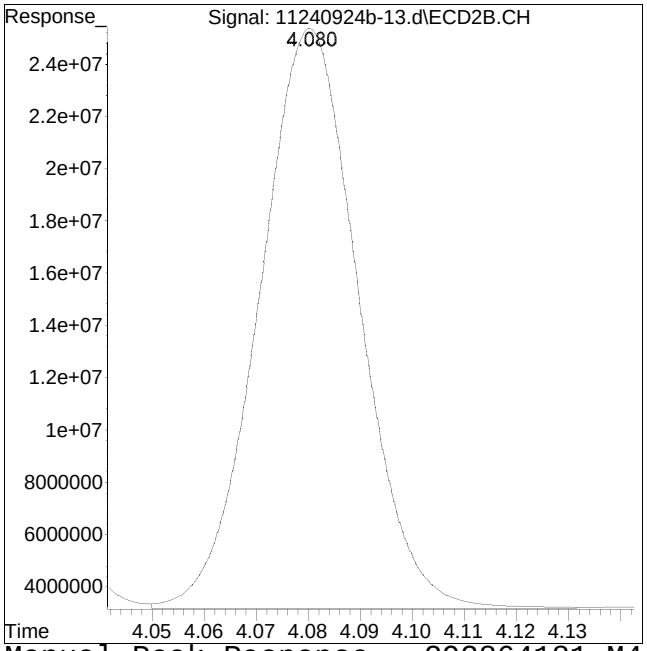
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #54: Endosulfan I #2



Original Peak Response = 296791772



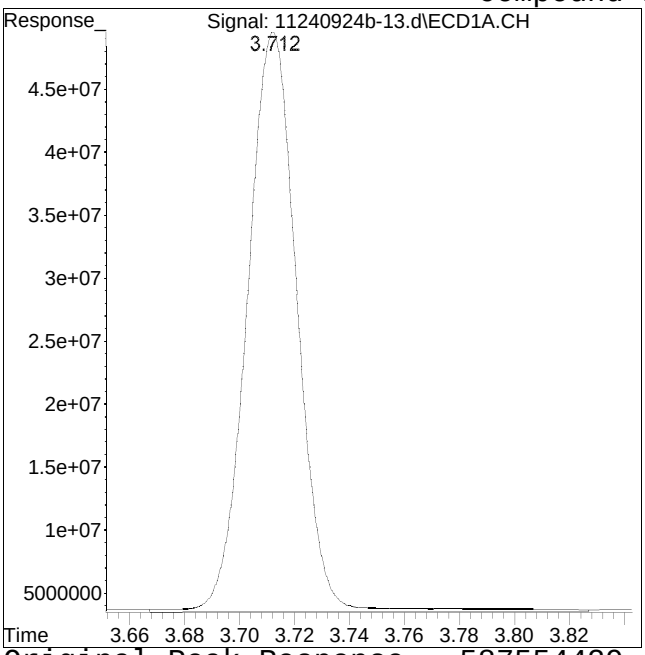
Manual Peak Response = 292864181 M4

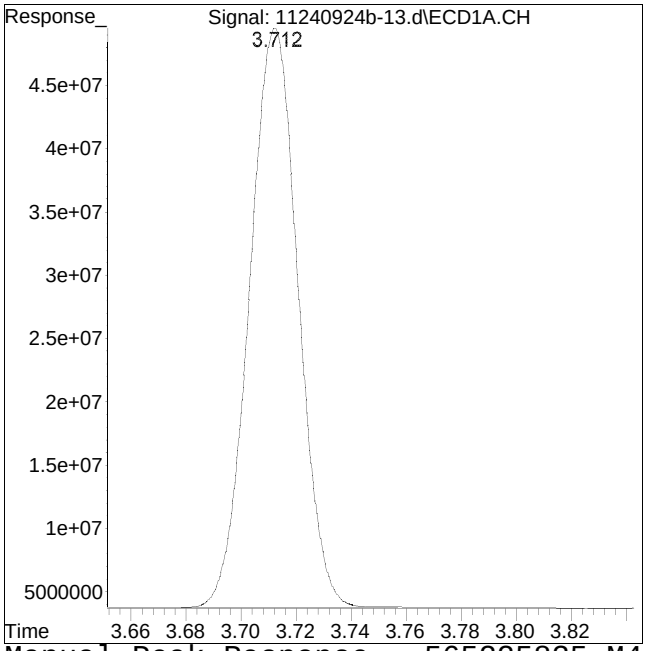
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #17: Dieldrin



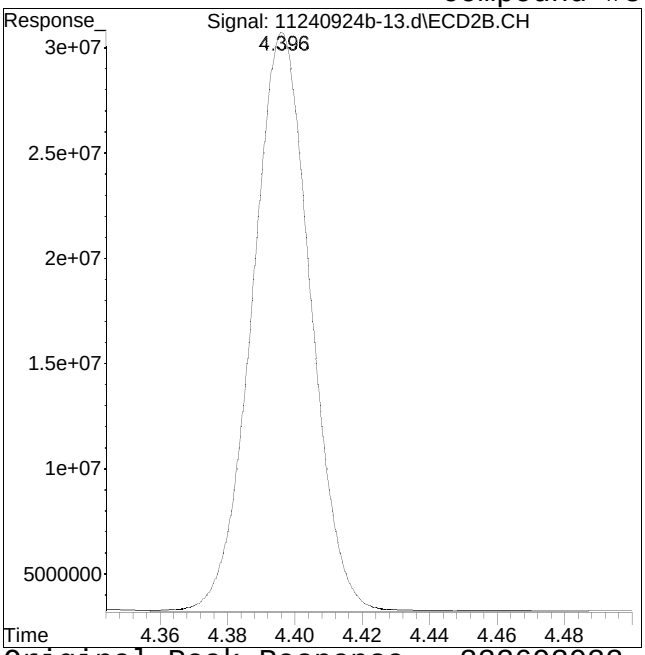


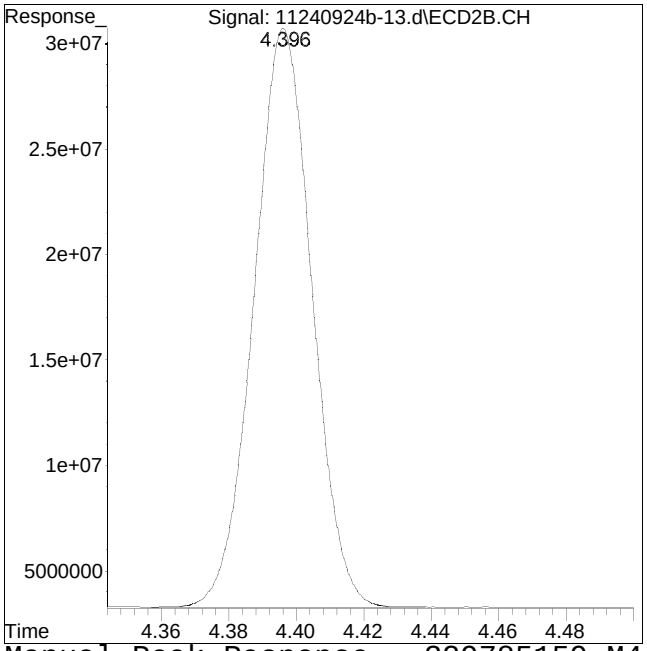
Original Peak Response = 587554429 Manual Peak Response = 565225835 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #55: Dieldrin #2



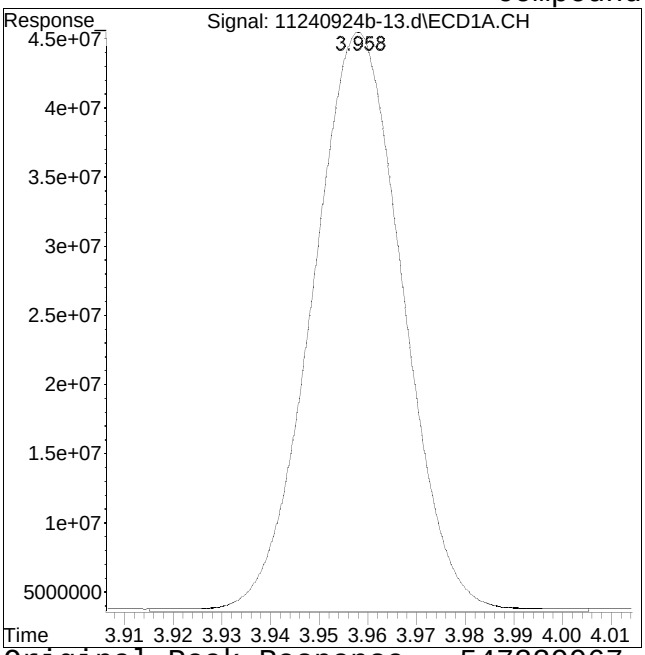


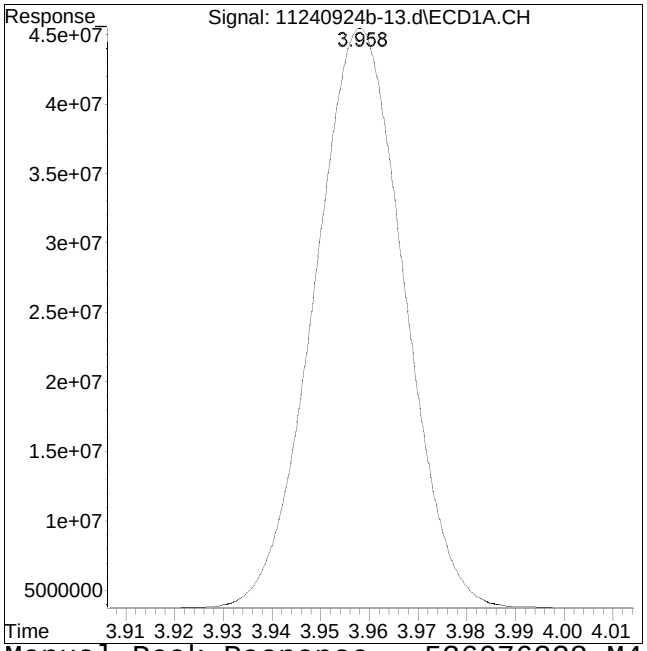
Original Peak Response = 333693933 Manual Peak Response = 329785159 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #18: Endrin



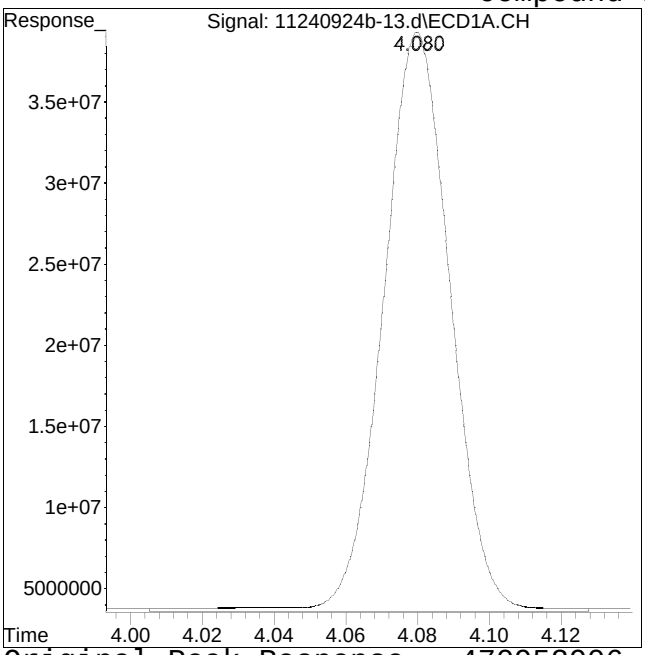


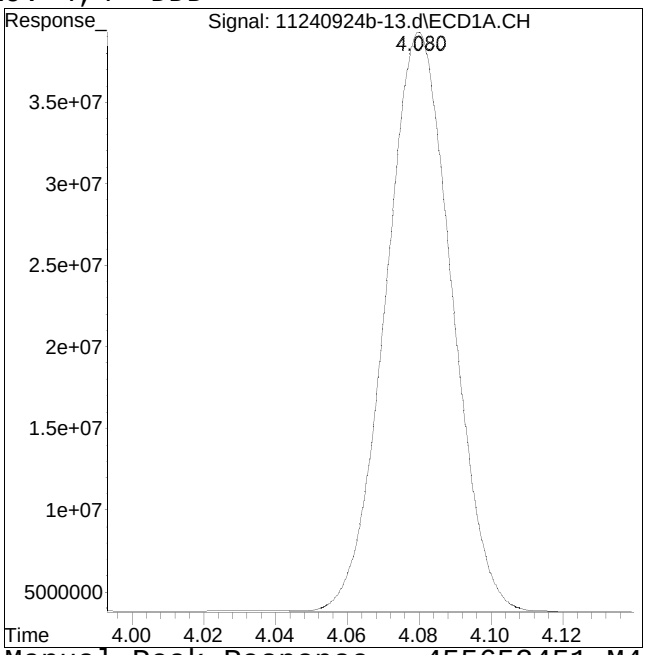
Original Peak Response = 547339967 Manual Peak Response = 536076228 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #19: 4,4'-DDD



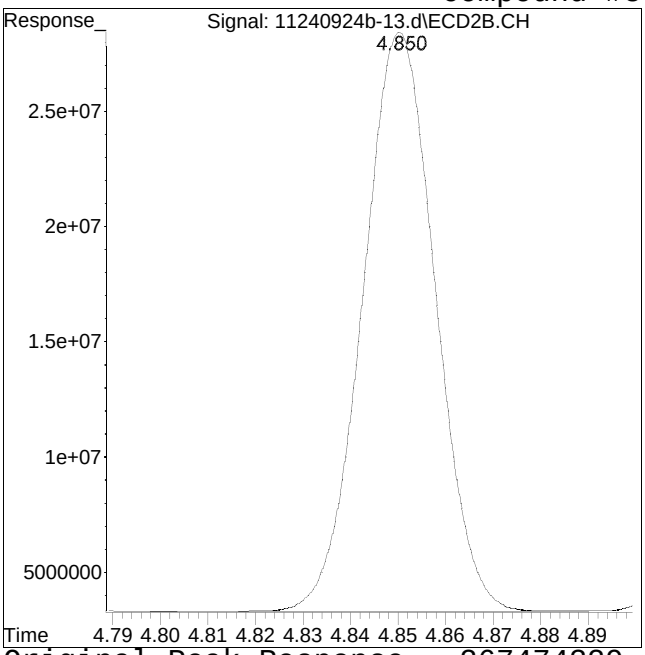


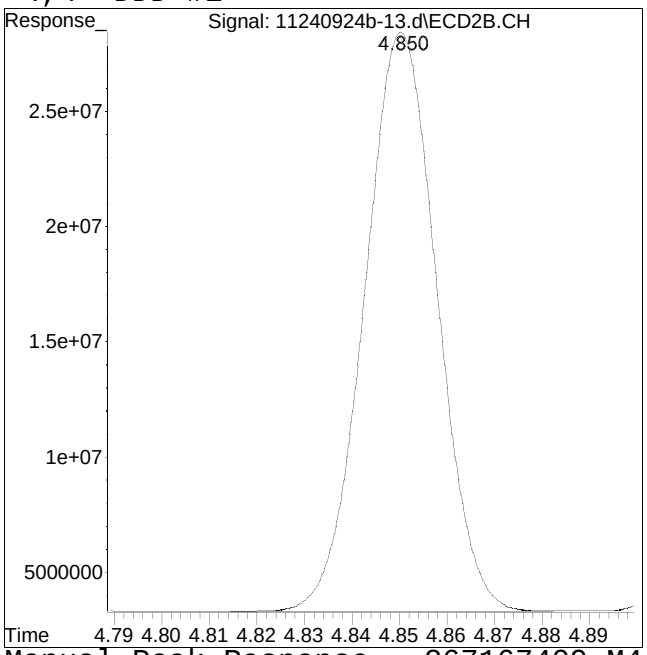
Original Peak Response = 470952906 Manual Peak Response = 455652451 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #57: 4,4'-DDD #2



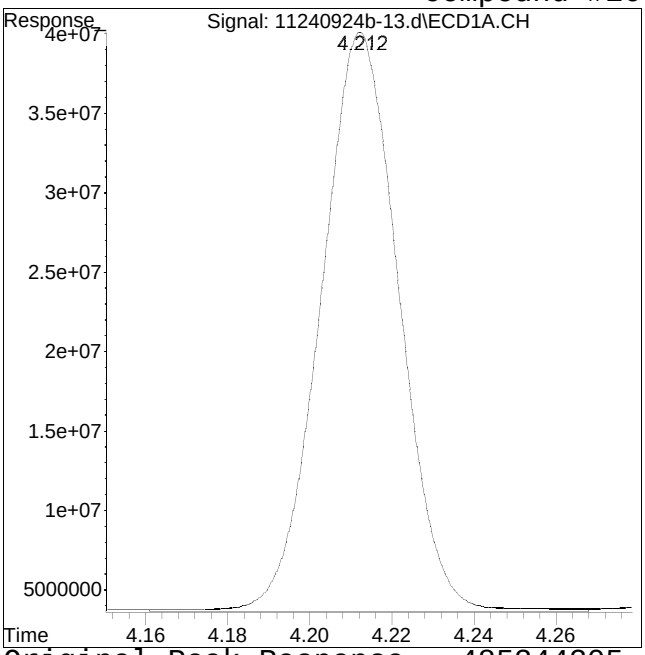


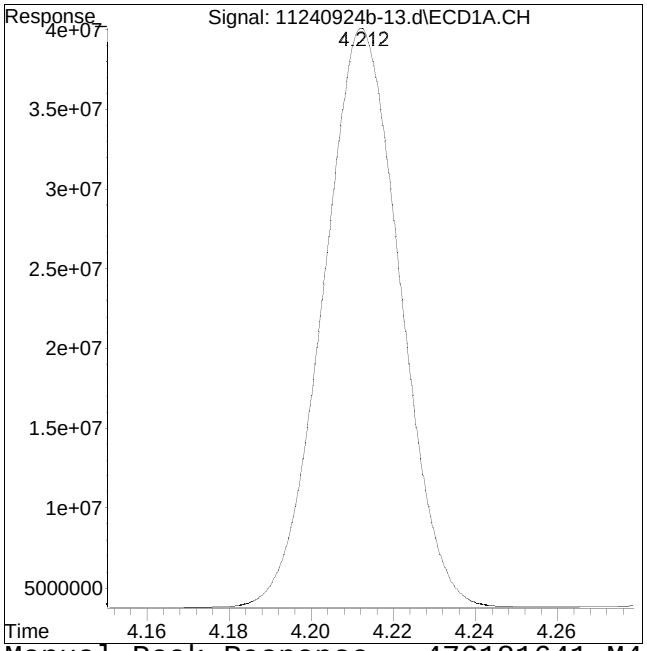
Original Peak Response = 267474329 Manual Peak Response = 267167409 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #20: Endosulfan II



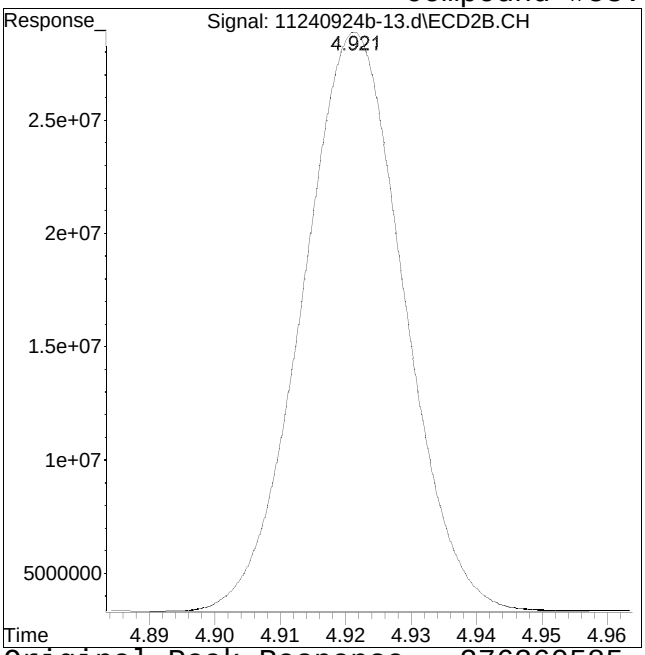


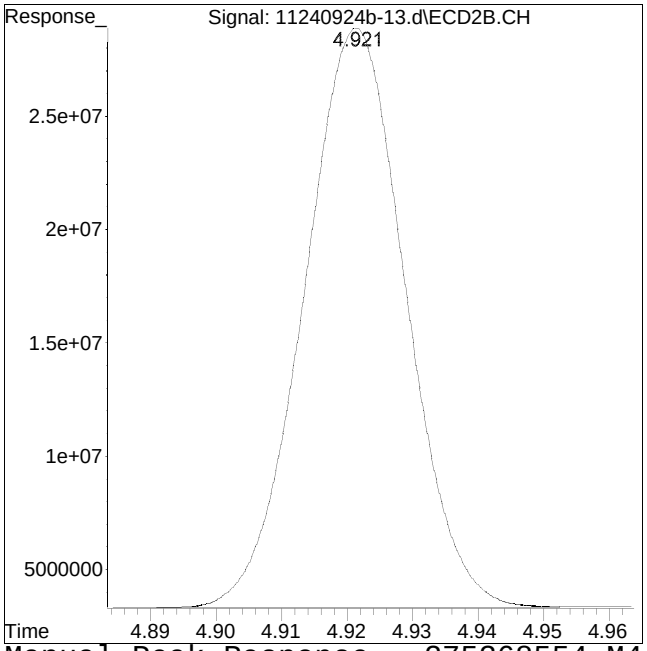
Original Peak Response = 485344305 Manual Peak Response = 476181641 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #58: Endosulfan II #2



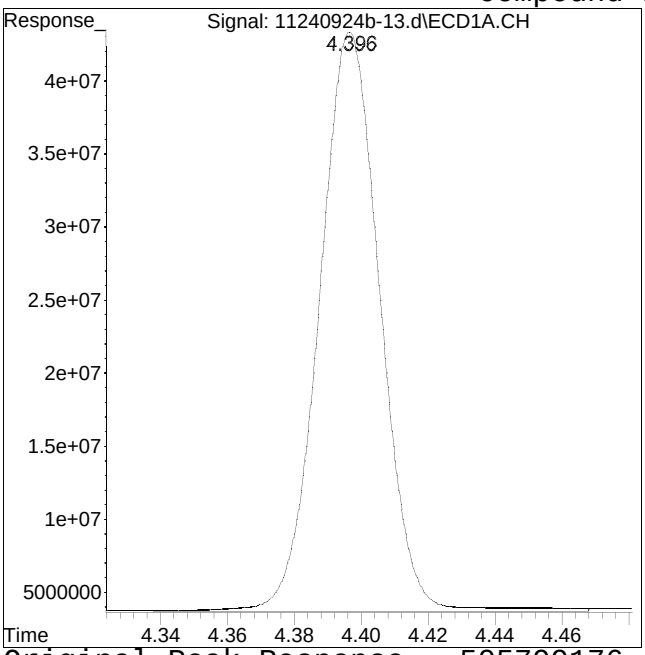


Original Peak Response = 276360585 Manual Peak Response = 275368554 M4
M4 = Poor automated baseline construction.

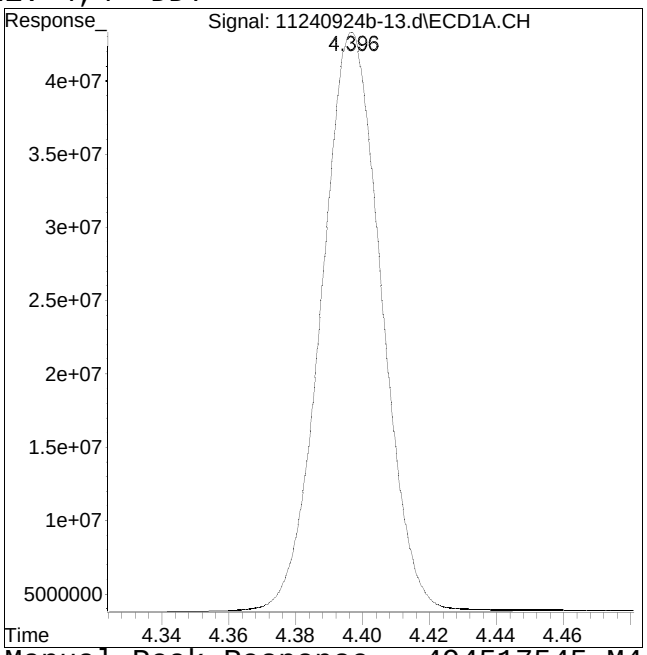
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #21: 4,4'-DDT



Original Peak Response = 505799176



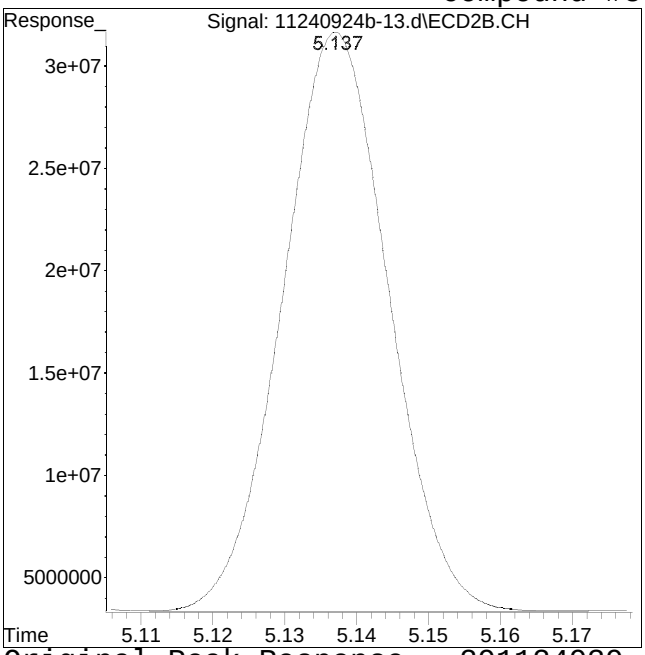
Manual Peak Response = 494517545 M4

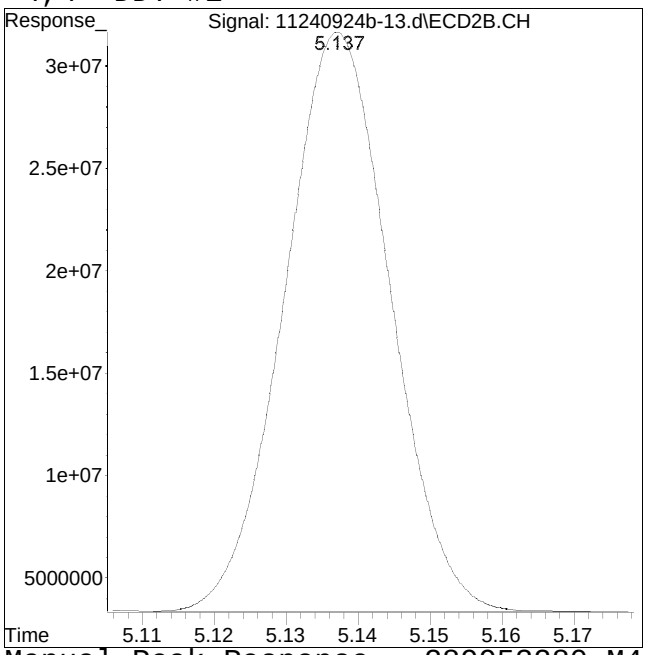
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #59: 4,4'-DDT #2



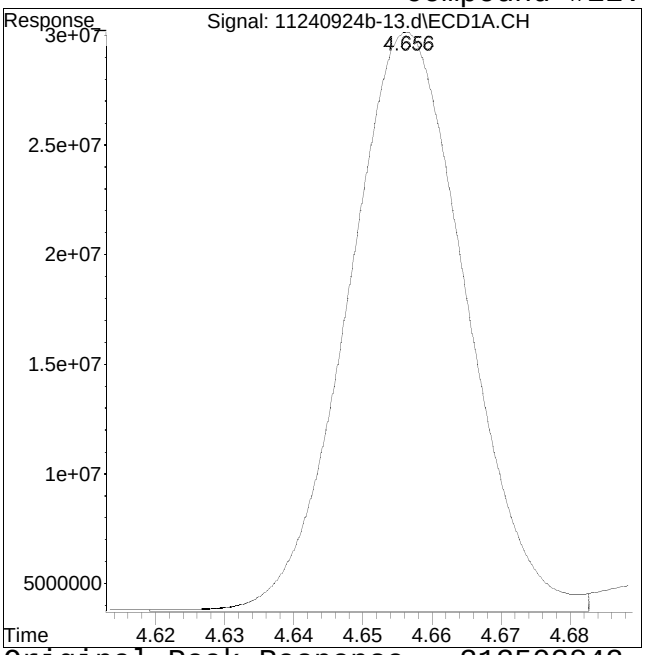


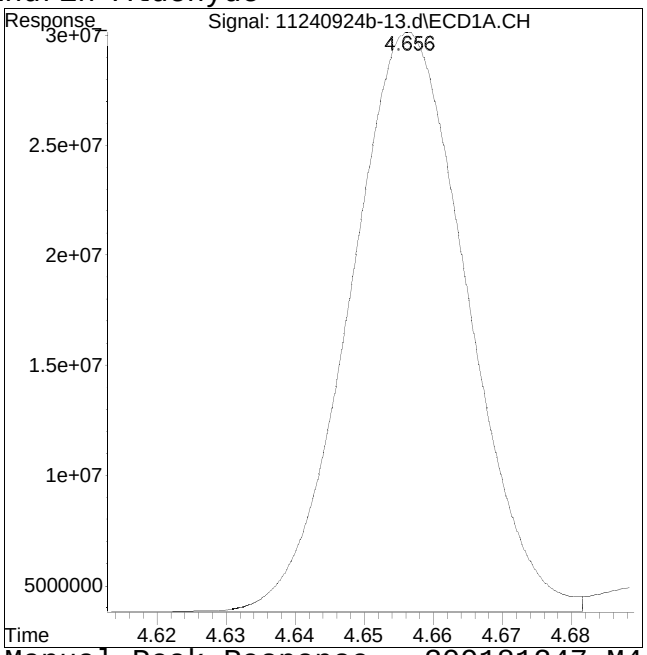
Original Peak Response = 291124939 Manual Peak Response = 289953280 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #22: Endrin Aldehyde



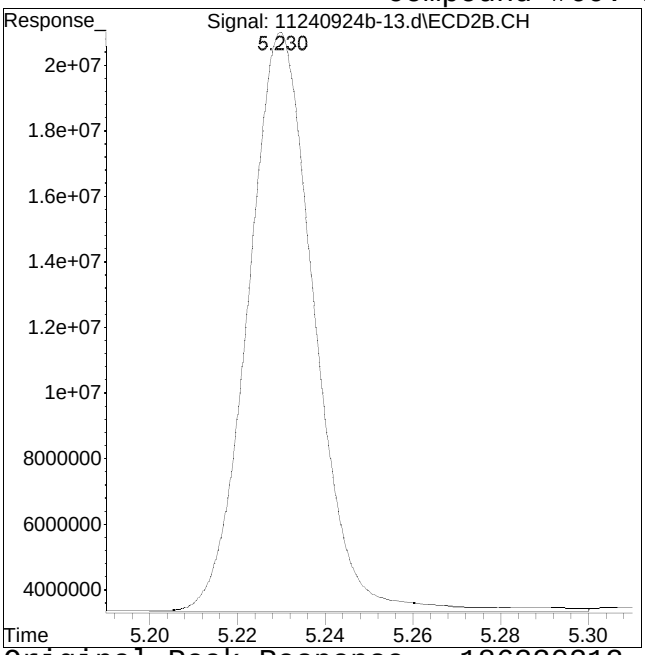


Original Peak Response = 313503842 Manual Peak Response = 309181247 M4
M4 = Poor automated baseline construction.

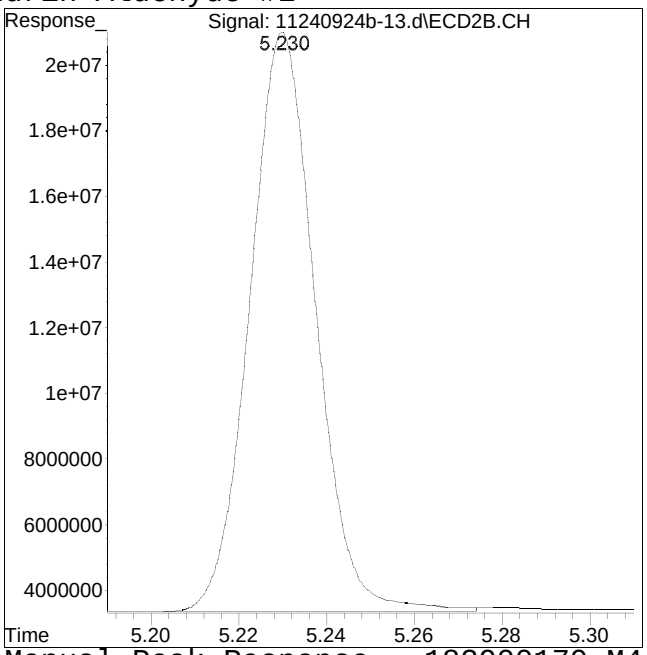
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 186330312



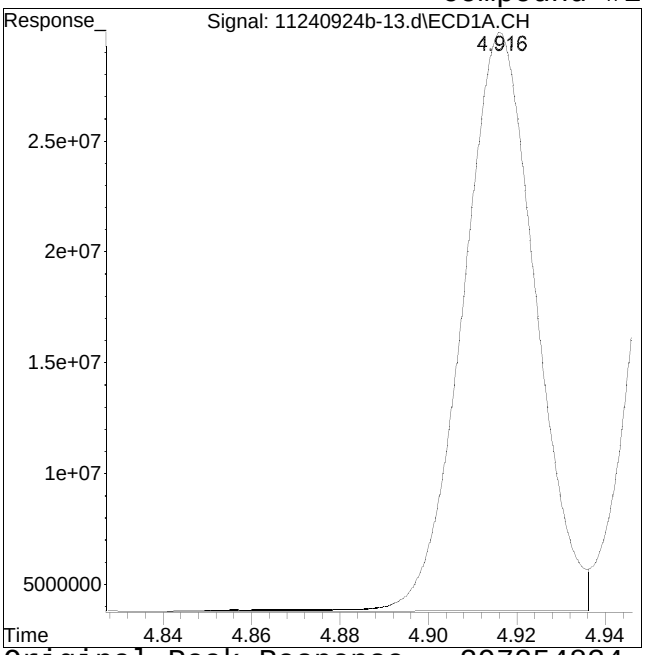
Manual Peak Response = 182900170 M4

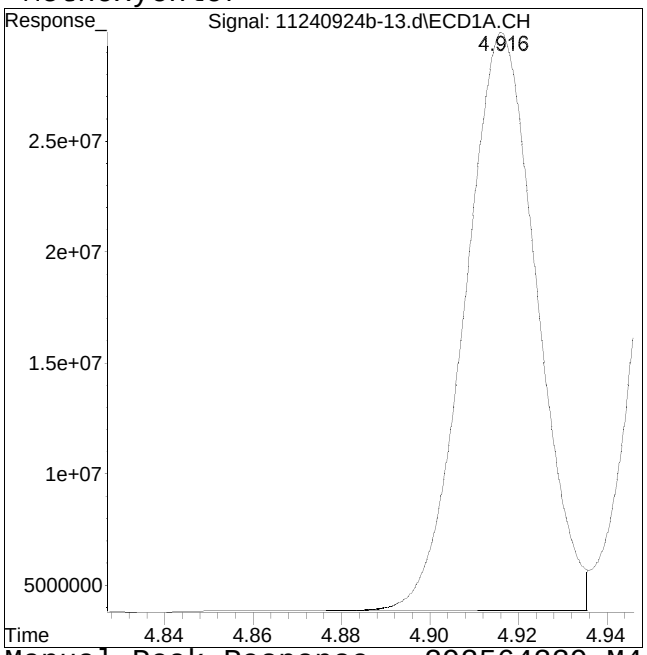
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #23: Methoxychlor



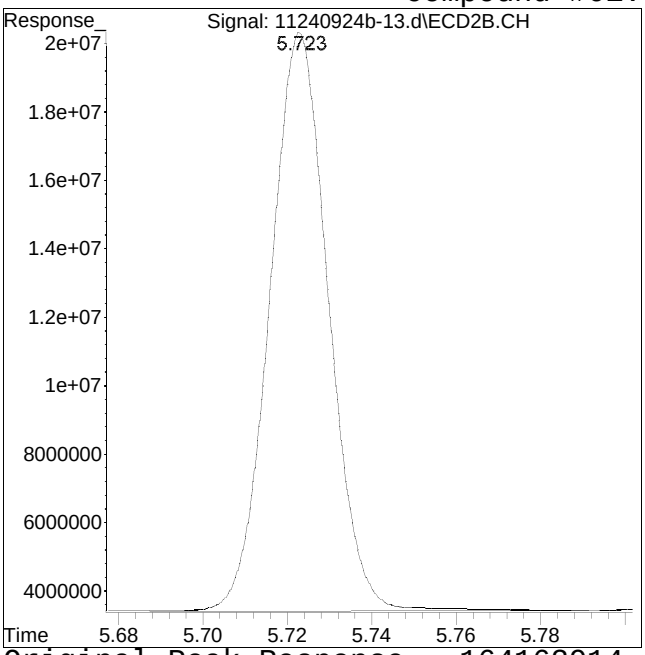


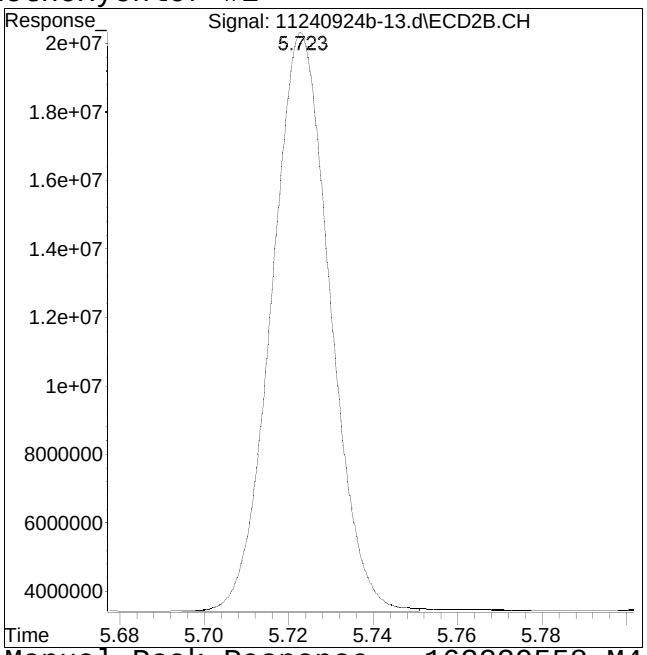
Original Peak Response = 297254834 Manual Peak Response = 292564339 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #61: Methoxychlor #2



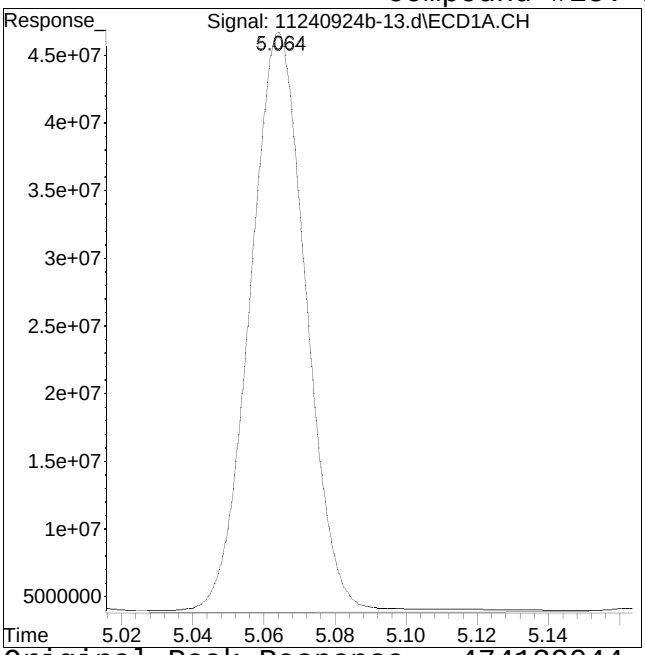


Original Peak Response = 164162914 Manual Peak Response = 162229558 M4
M4 = Poor automated baseline construction.

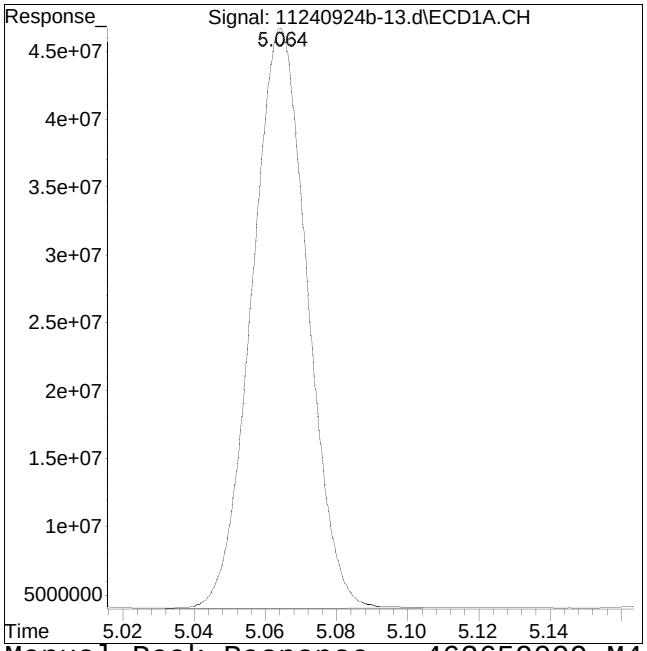
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 474139044



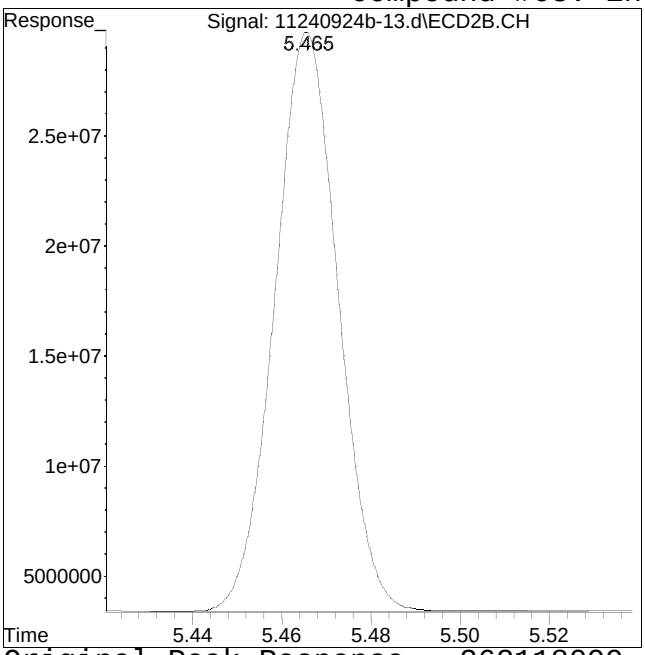
Manual Peak Response = 462659099 M4

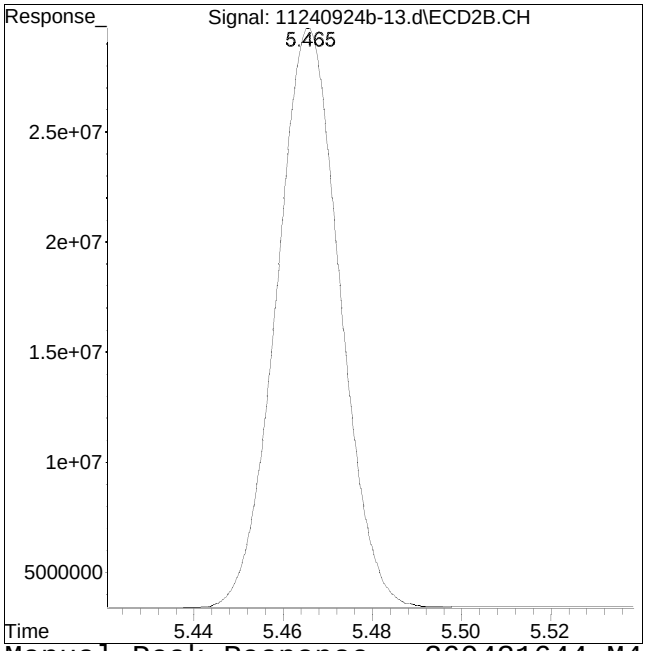
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #63: Endosulfan Sulfate #2



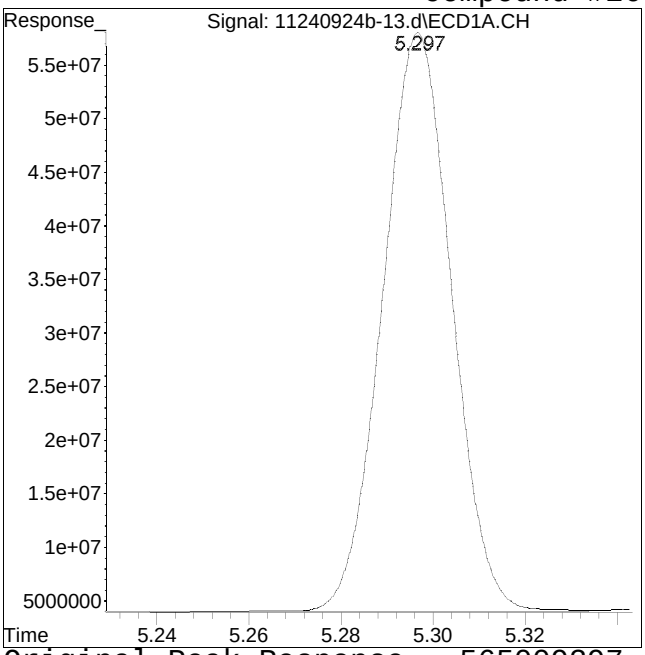


Original Peak Response = 262118099 Manual Peak Response = 260431644 M4
M4 = Poor automated baseline construction.

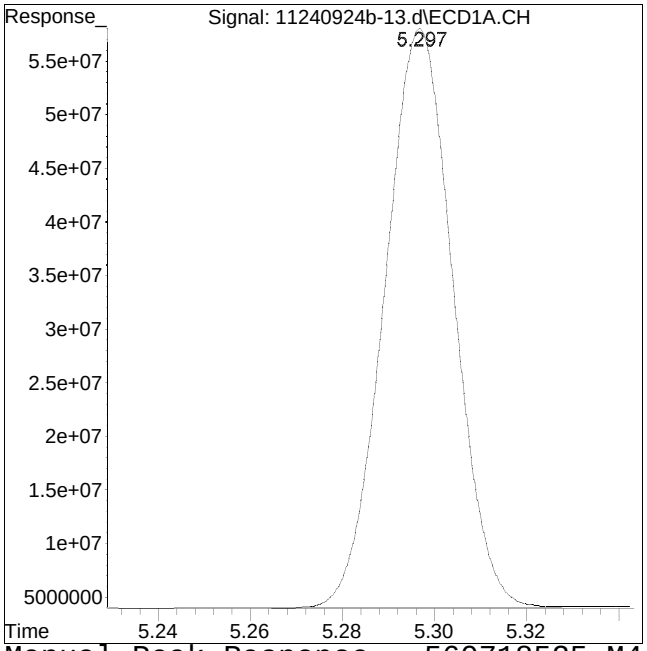
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #26: Endrin Ketone



Original Peak Response = 565009397



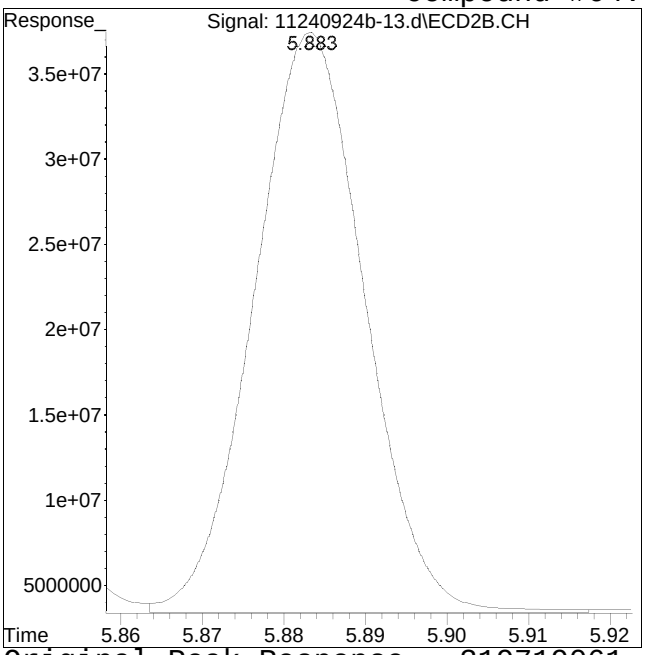
Manual Peak Response = 560718525 M4

M4 = Poor automated baseline construction.

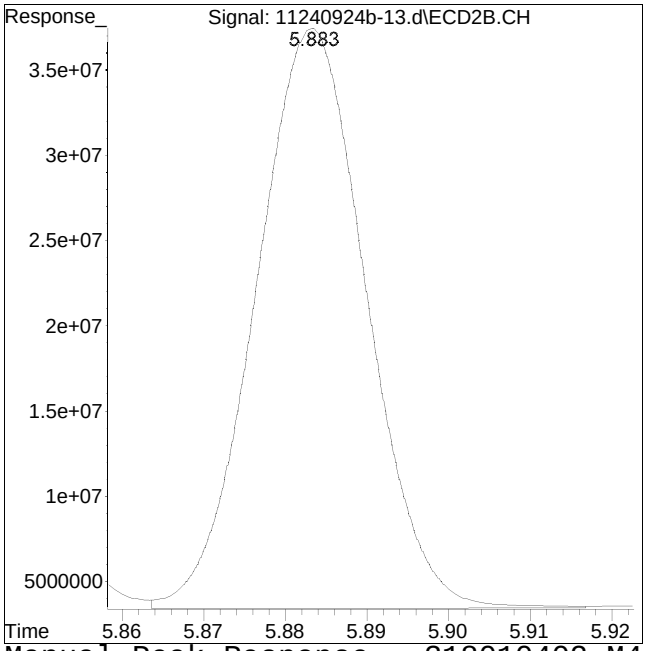
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #64: Endrin Ketone #2



Original Peak Response = 319719061

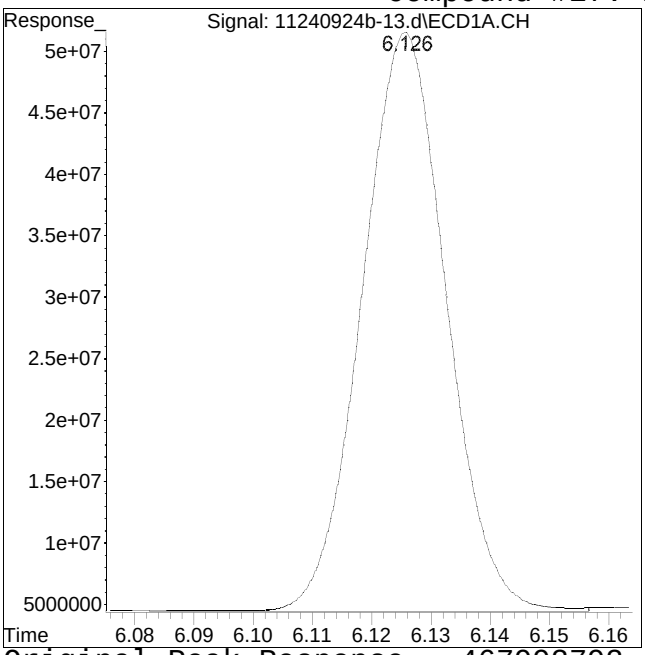


Manual Peak Response = 318010402 M4
M4 = Poor automated baseline construction.

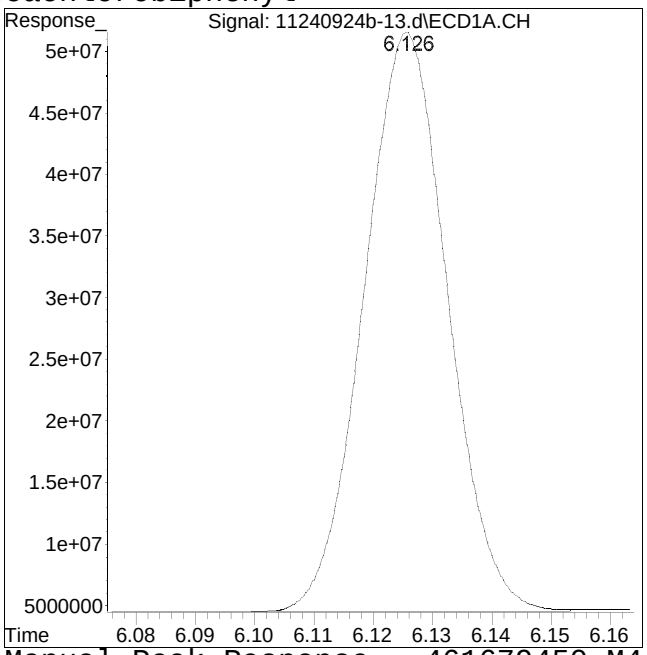
Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 467992792



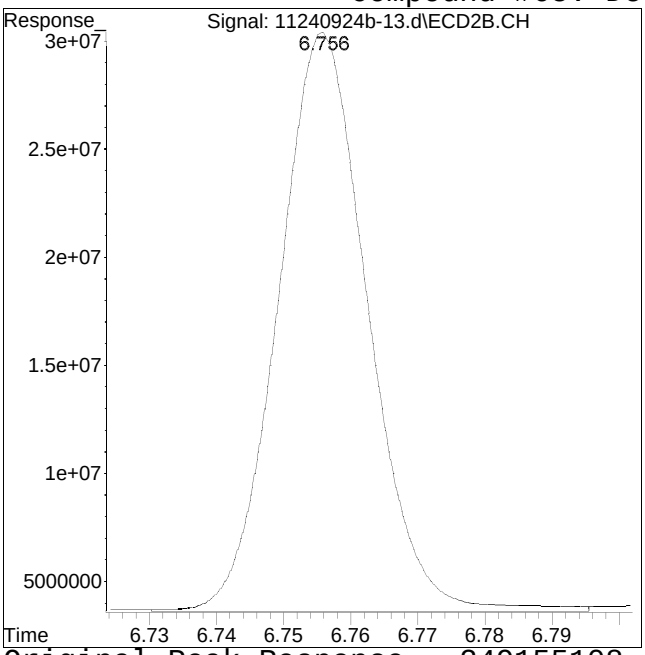
Manual Peak Response = 461679450 M4

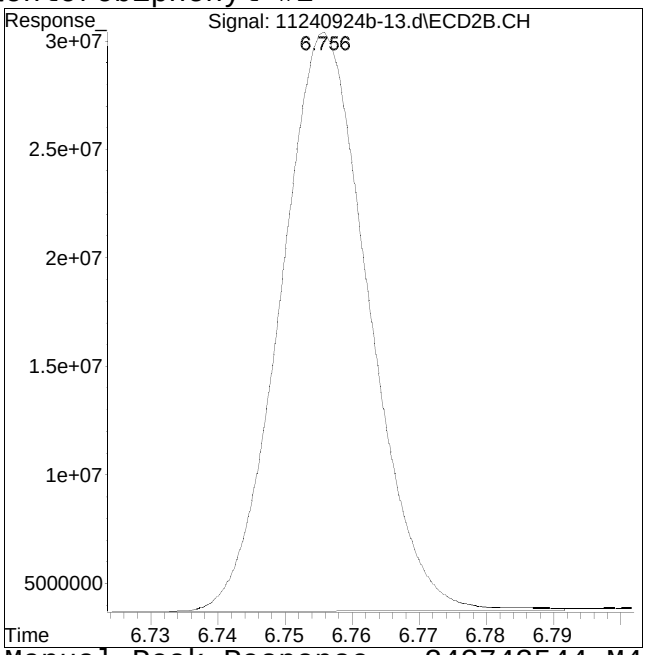
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest11\2024\240924QMethod : pest11_08_01_24_ugL_ICAL
Data File : 11240924b-13.d Operator : PEST11:jag
Date Inj'd : 9/24/2024 23:31 Instrument : Pest 11
Sample : WG1975489-5,42,, msd Quant Date : 9/25/2024 2:26 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 249155108 Manual Peak Response = 243743544 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PEST
Inst: PEST_11
Date: **08/01/24**
Run: ical

Method
GC: pest

Seq: WG1955254
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	11240801i-01	blank,42e,,pp 11660 -				
2	11240801i-02	pem-01,42e,,pp 11667 -				EJL 8/2
3	11240801i-03	il1pest,42e,,pp 11687 L0.0005				EJL 8/2
4	11240801i-04	il2pest,42e,,pp 11686 L0.001				EJL 8/2
5	11240801i-05	il3pest,42e,,pp 11685 L0.002				EJL 8/2
6	11240801i-06	il4pest,42e,,pp 11684 L0.003				EJL 8/2
7	11240801i-07	il5pest,42e,,pp 11683 L0.004				EJL 8/2
8	11240801i-08	il7pest,42e,,pp 11682 L0.01				EJL 8/2
9	11240801i-09	il8pest,42e,,pp 11681 L0.05				EJL 8/2
10	11240801i-10	il9pest,42e,,pp 11680 L0.1				EJL 8/2
11	11240801i-11	il10pest,42e,,pp 11679 L0.2				EJL 8/2
12	11240801i-12	il11pest,42e,,pp 11678 L0.4				EJL 8/2
13	11240801i-13	cicvpest,42e,,pp 11675 L0.05ICV				EJL 8/2
14	11240801i-14	il3chlor,42e,,pp 11694 L0.01				EJL 8/2
15	11240801i-15	il4chlor,42e,,pp 11693 L0.02				EJL 8/2
16	11240801i-16	il5chlor,42e,,pp 11692 L0.1				EJL 8/2
17	11240801i-17	il7chlor,42e,,pp 11691 L0.5				EJL 8/2
18	11240801i-18	il8chlor,42e,,pp 11690 L1.0				EJL 8/2
19	11240801i-19	il9chlor,42e,,pp 11689 L2.0				EJL 8/2
20	11240801i-20	il10chlor,42e,,pp 11688 L5.0				EJL 8/2
21	11240801i-21	cicvchlor,42e,,pp 11670 L1.0ICV				EJL 8/2
22	11240801i-22	il3tox,42e,,pp 11703 L0.02				EJL 8/2
23	11240801i-23	il4tox,42e,,pp 11702 L0.1				EJL 8/2
24	11240801i-24	il7tox,42e,,pp 11701 L1.0				EJL 8/2
25	11240801i-25	il8tox,42e,,pp 11700 L2.0				EJL 8/2
26	11240801i-26	il9tox,42e,,pp 11695 L5.0				EJL 8/2
27	11240801i-27	cicvtox,42e,,pp 11668 L2.0ICV			EJL	EJL 8/2

Dep.: PEST
Inst: PEST_11
Date: **09/24/24**
Run: b

Method
GC: pest

Seq: wg1975804
IS: pp11660

Vial	Data File	Sample	CCAL/Notes	Screen	Verified	initials
1	11240924b-01	blank				
2	11240924b-02	deg11573	21:12			PEG 9/25
3	11240924b-03	pest11675	a: high, b: 20%			PEG 9/25
4	11240924b-04	chlor11670	a: 15%, b: low			JAG 9/24
5	11240924b-05	tox11668	20%			PEG 9/25
6	11240924b-06	blank				
7	11240924b-07	WG1975489-1,42,,				JAG 9/25
8	11240924b-08	WG1975489-2,42,,				JAG 9/25
9	11240924b-09	WG1975489-3,42,,				JAG 9/25
10	11240924b-10	L2453720-01,42,,				JAG 9/25
11	11240924b-11	L2453720-02,42,, p				JAG 9/25
12	11240924b-12	WG1975489-4,42,, ms				JAG 9/25
13	11240924b-13	WG1975489-5,42,, msd				JAG 9/25
14	11240924b-14	L2453720-03,42,,				JAG 9/25
15	11240924b-15	L2453720-04,42,,				JAG 9/25
16	11240924b-16	L2453720-06,42,,				JAG 9/25
17	11240924b-17	L2453720-07,42,,				JAG 9/25
18	11240924b-18	L2453720-08,42,,				JAG 9/25
19	11240924b-19	L2453720-09,42,,			jag	JAG 9/25

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 25 2024, 04:13 pm

Work Group: WG1975489 for Department: 2 Organic Preparation

Created: 24-SEP-24 Due: Operator: SJM

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2453720-01	MW-8S	S	NYTCL-8081	WATER	DONE	U	0925	0925	S0	Amber-A.120
L2453720-02	MW-8D	S	NYTCL-8081	WATER	DONE	U	0925	0925	S0	Amber-A.120
L2453720-03	DUP_091824	S	NYTCL-8081	WATER	DONE	U	0925	0925	S0	Amber-A.120
L2453720-04	EQUIPMENT BLANK	S	NYTCL-8081	WATER	DONE	U	0925	0925	S0	Amber-A.120
L2453720-06	MW-5D	S	NYTCL-8081	WATER	DONE	U	0925	0925	S0	Amber-A.120
L2453720-07	PZ-5	S	NYTCL-8081	WATER	DONE	U	0925	0925	S0	Amber-A.120
L2453720-08	MW-12S	S	NYTCL-8081	WATER	DONE	U	0925	0925	S0	Amber-A.120
L2453720-09	MW-12D	S	NYTCL-8081	WATER	DONE	U	0925	0925	S0	Amber-A.120
WG1975489-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1975489-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1975489-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				
WG1975489-4	Matrix Spike	S	NYTCL-8081	WATER	DONE	U				
WG1975489-5	Matrix Spike Duplica	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1975489-3	WG1975489-2
WG1975489-4	L2453720-02
WG1975489-5	L2453720-02

ORGANIC ELN REPORT

Workgroup: WG1975489

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: Pesticide/PCB
Spike Type: Pesticide
Spike Verify by: NBD/SJM
Lims Spikelot: PEST_LVI
Lot #: EJ089
Lot #: PP11735bd,02/06/2025,7c,5,1
Lot #: PP11617as,10/17/2024

Additional Reagents/Stds

Na2SO4	241169

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EJ061

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2453720-01 SAMP	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25		09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
L2453720-02 SAMP	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25		09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
L2453720-03 SAMP	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25		09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
L2453720-04 SAMP	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25		09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
L2453720-06 SAMP	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25		09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
L2453720-07 SAMP	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25		09/24/24 13:55	Tian-Long Chheou	1	H, K, 3

Reported: 25-SEP-24 04:13 PM

ORGANIC ELN REPORT

Workgroup: WG1975489

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2453720-08 SAMP	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25		09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
L2453720-09 SAMP	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25		09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
WG1975489-1 BLANK	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25		09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
WG1975489-2 LCS	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25	.25	09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
WG1975489-3 LCSD	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25	.25	09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
WG1975489-4 MS	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25	.25	09/24/24 13:55	Tian-Long Chheou	1	H, K, 3
WG1975489-5 MSD	09/24/24 09:40	Dayle Parsons	140	>5,<9	.25	.25	09/24/24 13:55	Tian-Long Chheou	1	H, K, 3

Reported: 25-SEP-24 04:13 PM

Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975268-1	**Date Collected**	: NA
Client ID	: WG1975268-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 12:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	0.0027	0.0050	0.0019	J
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975268-4	**Date Collected**	: 09/16/24 14:00
Client ID	: WG1975268-4 DUP	**Date Received**	: 09/16/24
Sample Location	:	**Date Analyzed**	: 09/24/24 13:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975360.pdf	**Instrument ID**	: TRACE9
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-43-9	Cadmium, Total	ND	0.0050	0.001	U
7440-47-3	Chromium, Total	0.0041	0.0100	0.002	J
7440-50-8	Copper, Total	0.0063	0.0100	0.002	J
7439-92-1	Lead, Total	ND	0.0100	0.003	U
7440-02-0	Nickel, Total	0.221	0.0250	0.002	
7440-22-4	Silver, Total	ND	0.0070	0.003	U
7440-66-6	Zinc, Total	0.0189	0.0050	0.002	

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 08:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975913.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.0461	0.100	0.0318	J
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0762	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	8.45	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0025	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	2.60	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.112	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.06	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	7.50	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0027	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 07:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975913.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0306	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	12.5	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	0.0133	0.0500	0.0090	J
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	6.11	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.17	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	16.9	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0021	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 08:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975913.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	0.0403	0.100	0.0318	J
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0755	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	8.35	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0023	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	2.56	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.111	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.06	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	7.44	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 08:32
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975913.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 08:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975913.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0482	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	15.8	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	7.62	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.31	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	19.4	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 08:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975913.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0157	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	21.0	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0026	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	4.19	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	0.814	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	2.94	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0026	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 08:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975913.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0622	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	8.58	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	0.0026	0.0100	0.0022	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	2.72	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0235	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.32	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	48.2	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0025	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 08:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975913.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0378	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	13.8	0.100	0.0350	
7440-47-3	Chromium, Dissolved	0.0029	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.84	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	0.0043	0.0250	0.0024	J
7440-09-7	Potassium, Dissolved	1.13	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	14.3	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0114	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975485-1	**Date Collected**	: NA
Client ID	: WG1975485-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 07:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: DMC
Lab File ID	: WG1975913.pdf	**Instrument ID**	: TRACE8
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U

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METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 12:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1976104.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.140	0.100	0.0318	
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0676	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	7.48	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.119	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	2.46	0.100	0.0153	
7439-96-5	Manganese, Total	0.106	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.02	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	8.03	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 13:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1976104.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0277	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	11.3	0.100	0.0350	
7440-47-3	Chromium, Total	0.0021	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0589	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.57	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.10	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	18.0	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0026	0.0050	0.0021	J

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 12:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1976104.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.135	0.100	0.0318	
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0662	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	7.32	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.120	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	2.41	0.100	0.0153	
7439-96-5	Manganese, Total	0.104	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.00	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	7.70	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 12:55
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1976104.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

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Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 13:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1976104.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0857	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	0.0026	0.0050	0.0019	J
7440-39-3	Barium, Total	0.0442	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	14.4	0.100	0.0350	
7440-47-3	Chromium, Total	0.0023	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.188	0.0500	0.0090	
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	6.97	0.100	0.0153	
7439-96-5	Manganese, Total	0.0052	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.24	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	20.7	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 13:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1976104.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0141	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	18.8	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0415	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	3.99	0.100	0.0153	
7439-96-5	Manganese, Total	0.0033	0.0100	0.0016	J
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	0.715	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	3.14	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0021	0.0050	0.0021	J

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 14:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1976104.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0545	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	7.50	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0450	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	2.49	0.100	0.0153	
7439-96-5	Manganese, Total	0.0259	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.16	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	51.1	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 14:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1976104.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.0357	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0336	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	12.2	0.100	0.0350	
7440-47-3	Chromium, Total	0.0045	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0486	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.62	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	0.0039	0.0250	0.0024	J
7440-09-7	Potassium, Total	0.974	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	15.2	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0099	0.0050	0.0021	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975268-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 09/25/24 13:32
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 19,200.7	**Analyst**	: CEY
Lab File ID	: WG1976104.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-70-2	Calcium, Total	11.2	0.500	0.175	
7439-95-4	Magnesium, Total	5.46	0.500	0.077	

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879488-1			R1879488-4			R1879488-6		R1879488-8	
Date Analyzed :	09/24/24 06:17			09/24/24 07:41			09/24/24 08:49		09/24/24 09:40	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4870	97	0.5000	0.490	98	0.477	95	0.474	95
Antimony	0.500	0.5150	103	0.5000	0.510	102	0.508	102	0.502	100
Arsenic	0.500	0.4890	98	0.5000	0.486	97	0.485	97	0.479	96
Barium	0.500	0.5050	101	0.5000	0.500	100	0.497	99	0.488	98
Beryllium	0.500	0.5150	103	0.5000	0.514	103	0.508	102	0.500	100
Cadmium	0.500	0.5100	102	0.5000	0.505	101	0.498	100	0.487	97
Calcium	0.500	0.5000	100	0.5000	0.499	100	0.491	98	0.479	96
Chromium	0.500	0.4970	99	0.5000	0.491	98	0.488	98	0.479	96
Cobalt	0.500	0.5180	104	0.5000	0.517	103	0.509	102	0.501	100
Copper	0.500	0.4990	100	0.5000	0.495	99	0.489	98	0.485	97
Iron	0.500	0.5130	103	0.5000	0.515	103	0.504	101	0.497	99
Lead	0.500	0.5080	102	0.5000	0.503	101	0.499	100	0.490	98
Magnesium	0.500	0.5000	100	0.5000	0.491	98	0.489	98	0.479	96
Manganese	0.500	0.4970	99	0.5000	0.492	98	0.488	98	0.480	96
Nickel	0.500	0.5150	103	0.5000	0.512	102	0.508	102	0.499	100
Potassium	5.00	5.2300	105	5.0000	5.20	104	5.12	102	5.07	101
Selenium	0.500	0.5040	101	0.5000	0.497	99	0.490	98	0.489	98
Silver	0.500	0.5180	104	0.5000	0.510	102	0.507	101	0.501	100
Sodium	10.0	10.1000	101	10.0000	10.0	100	9.94	99	9.75	98
Thallium	0.500	0.5080	102	0.5000	0.506	101	0.499	100	0.495	99
Vanadium	0.500	0.4950	99	0.5000	0.490	98	0.485	97	0.478	96
Zinc	0.500	0.5150	103	0.5000	0.511	102	0.506	101	0.498	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879488-10			R1879488-12		R1879488-14	
Date Analyzed :				09/24/24 10:39			09/24/24 11:30		09/24/24 12:18	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.470	94	0.477	95	0.469	94
Antimony				0.5000	0.501	100	0.506	101	0.492	98
Arsenic				0.5000	0.478	96	0.475	95	0.471	94
Barium				0.5000	0.492	98	0.486	97	0.485	97
Beryllium				0.5000	0.502	100	0.501	100	0.497	99
Cadmium				0.5000	0.486	97	0.493	99	0.487	97
Calcium				0.5000	0.481	96	0.482	96	0.478	96
Chromium				0.5000	0.480	96	0.481	96	0.478	96
Cobalt				0.5000	0.499	100	0.504	101	0.495	99
Copper				0.5000	0.483	97	0.486	97	0.478	96
Iron				0.5000	0.495	99	0.494	99	0.499	100
Lead				0.5000	0.491	98	0.488	98	0.487	97
Magnesium				0.5000	0.483	97	0.482	96	0.481	96
Manganese				0.5000	0.480	96	0.479	96	0.477	95
Nickel				0.5000	0.500	100	0.501	100	0.495	99
Potassium				5.0000	5.04	101	5.08	102	5.01	100
Selenium				0.5000	0.490	98	0.486	97	0.484	97
Silver				0.5000	0.501	100	0.502	100	0.497	99
Sodium				10.0000	9.84	98	9.76	98	9.72	97
Thallium				0.5000	0.494	99	0.490	98	0.488	98
Vanadium				0.5000	0.478	96	0.478	96	0.472	94
Zinc				0.5000	0.498	100	0.498	100	0.493	99

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879488-16			R1879488-18			
Date Analyzed :				09/24/24 13:08			09/24/24 13:57			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.472	94	0.475	95		
Antimony				0.5000	0.496	99	0.494	99		
Arsenic				0.5000	0.472	94	0.477	95		
Barium				0.5000	0.483	97	0.488	98		
Beryllium				0.5000	0.497	99	0.499	100		
Cadmium				0.5000	0.484	97	0.488	98		
Calcium				0.5000	0.476	95	0.478	96		
Chromium				0.5000	0.476	95	0.476	95		
Cobalt				0.5000	0.496	99	0.497	99		
Copper				0.5000	0.481	96	0.479	96		
Iron				0.5000	0.496	99	0.492	98		
Lead				0.5000	0.488	98	0.487	97		
Magnesium				0.5000	0.479	96	0.476	95		
Manganese				0.5000	0.475	95	0.477	95		
Nickel				0.5000	0.496	99	0.494	99		
Potassium				5.0000	5.02	100	5.03	101		
Selenium				0.5000	0.484	97	0.488	98		
Silver				0.5000	0.499	100	0.498	100		
Sodium				10.0000	9.73	97	9.79	98		
Thallium				0.5000	0.488	98	0.488	98		
Vanadium				0.5000	0.474	95	0.474	95		
Zinc				0.5000	0.492	98	0.493	99		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1879667-1									
Date Analyzed	:	09/24/24 09:24									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony		0.500	0.5040	101							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879667-3			R1879667-6			R1879667-8		R1879667-10	
Date Analyzed :	09/24/24 09:37			09/24/24 11:31			09/24/24 11:45		09/24/24 13:05	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony	0.500	0.5280	106	0.5000	0.534	107	0.506	101	0.516	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879667-12			R1879667-14		R1879667-16	
Date Analyzed :				09/24/24 13:17			09/24/24 14:18		09/24/24 15:33	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.536	107	0.536	107	0.00160	0

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879667-18			R1879667-20			
Date Analyzed :				09/24/24 15:51			09/24/24 16:36			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Antimony				0.5000	0.500	100	0.509	102		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879982-1									
Date Analyzed :	09/25/24 05:36									
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4880	98							
Antimony	0.500	0.5060	101							
Arsenic	0.500	0.4900	98							
Barium	0.500	0.5060	101							
Beryllium	0.500	0.5160	103							
Cadmium	0.500	0.5130	103							
Calcium	0.500	0.4950	99							
Chromium	0.500	0.5000	100							
Cobalt	0.500	0.5150	103							
Copper	0.500	0.4940	99							
Iron	0.500	0.5120	102							
Lead	0.500	0.5000	100							
Magnesium	0.500	0.4970	99							
Manganese	0.500	0.5020	100							
Nickel	0.500	0.5140	103							
Potassium	5.00	5.2400	105							
Selenium	0.500	0.4930	99							
Silver	0.500	0.5060	101							
Sodium	10.0	10.0000	100							
Thallium	0.500	0.5000	100							
Vanadium	0.500	0.5020	100							
Zinc	0.500	0.5150	103							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879982-3			R1879982-6			R1879982-8		R1879982-10	
Date Analyzed :	09/25/24 05:45			09/25/24 07:28			09/25/24 08:16		09/25/24 08:52	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4940	99	0.5000	0.489	98	0.484	97	0.483	97
Antimony	0.500	0.5190	104	0.5000	0.474	95	0.505	101	0.499	100
Arsenic	0.500	0.4900	98	0.5000	0.469	94	0.486	97	0.482	96
Barium	0.500	0.5050	101	0.5000	0.508	102	0.502	100	0.501	100
Beryllium	0.500	0.5200	104	0.5000	0.520	104	0.518	104	0.516	103
Cadmium	0.500	0.5210	104	0.5000	0.486	97	0.515	103	0.509	102
Calcium	0.500	0.5020	100	0.5000	0.495	99	0.494	99	0.493	99
Chromium	0.500	0.5090	102	0.5000	0.485	97	0.504	101	0.497	99
Cobalt	0.500	0.5220	104	0.5000	0.492	98	0.511	102	0.507	101
Copper	0.500	0.4980	100	0.5000	0.481	96	0.489	98	0.488	98
Iron	0.500	0.5120	102	0.5000	0.513	103	0.509	102	0.511	102
Lead	0.500	0.5010	100	0.5000	0.502	100	0.500	100	0.499	100
Magnesium	0.500	0.5060	101	0.5000	0.472	94	0.496	99	0.491	98
Manganese	0.500	0.5040	101	0.5000	0.505	101	0.502	100	0.501	100
Nickel	0.500	0.5240	105	0.5000	0.489	98	0.510	102	0.507	101
Potassium	5.00	5.2400	105	5.0000	5.27	105	5.06	101	5.21	104
Selenium	0.500	0.4950	99	0.5000	0.466	93	0.496	99	0.492	98
Silver	0.500	0.5170	103	0.5000	0.486	97	0.504	101	0.499	100
Sodium	10.0	10.2000	102	10.0000	10.1	101	10.0	100	10.0	100
Thallium	0.500	0.4970	99	0.5000	0.516	103	0.504	101	0.495	99
Vanadium	0.500	0.5090	102	0.5000	0.490	98	0.505	101	0.499	100
Zinc	0.500	0.5230	105	0.5000	0.481	96	0.510	102	0.508	102

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1880211-1									
Date Analyzed	:	09/25/24 10:45									
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum		0.500	0.4800	96							
Antimony		0.500	0.5030	101							
Arsenic		0.500	0.4940	99							
Barium		0.500	0.4760	95							
Beryllium		0.500	0.4820	96							
Cadmium		0.500	0.4990	100							
Calcium		0.500	0.4850	97							
Chromium		0.500	0.5040	101							
Cobalt		0.500	0.5080	102							
Copper		0.500	0.4960	99							
Iron		0.500	0.4980	100							
Lead		0.500	0.5070	101							
Magnesium		0.500	0.5090	102							
Manganese		0.500	0.4770	95							
Nickel		0.500	0.5080	102							
Potassium		5.00	5.0900	102							
Selenium		0.500	0.5040	101							
Silver		0.500	0.5160	103							
Sodium		10.0	10.3000	103							
Thallium		0.500	0.5100	102							
Vanadium		0.500	0.4940	99							
Zinc		0.500	0.5070	101							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1880211-3			R1880211-6			R1880211-8		R1880211-10	
Date Analyzed:	09/25/24 10:58			09/25/24 12:21			09/25/24 13:38		09/25/24 15:05	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.500	0.4860	97	0.5000	0.480	96	0.476	95	0.479	96
Antimony	0.500	0.5030	101	0.5000	0.490	98	0.503	101	0.501	100
Arsenic	0.500	0.4940	99	0.5000	0.483	97	0.495	99	0.490	98
Barium	0.500	0.4810	96	0.5000	0.477	95	0.472	94	0.478	96
Beryllium	0.500	0.4920	98	0.5000	0.486	97	0.480	96	0.489	98
Cadmium	0.500	0.5000	100	0.5000	0.489	98	0.498	100	0.489	98
Calcium	0.500	0.4940	99	0.5000	0.483	97	0.479	96	0.486	97
Chromium	0.500	0.5030	101	0.5000	0.498	100	0.506	101	0.497	99
Cobalt	0.500	0.5100	102	0.5000	0.496	99	0.506	101	0.501	100
Copper	0.500	0.5010	100	0.5000	0.488	98	0.494	99	0.492	98
Iron	0.500	0.5000	100	0.5000	0.487	97	0.485	97	0.484	97
Lead	0.500	0.5090	102	0.5000	0.494	99	0.503	101	0.501	100
Magnesium	0.500	0.5100	102	0.5000	0.501	100	0.506	101	0.499	100
Manganese	0.500	0.4870	97	0.5000	0.480	96	0.475	95	0.477	95
Nickel	0.500	0.5100	102	0.5000	0.497	99	0.504	101	0.502	100
Potassium	5.00	5.1000	102	5.0000	5.11	102	4.99	100	5.04	101
Selenium	0.500	0.4960	99	0.5000	0.490	98	0.498	100	0.504	101
Silver	0.500	0.5110	102	0.5000	0.509	102	0.515	103	0.516	103
Sodium	10.0	10.4000	104	10.0000	10.2	102	10.2	102	10.4	104
Thallium	0.500	0.5100	102	0.5000	0.498	100	0.507	101	0.474	95
Vanadium	0.500	0.4980	100	0.5000	0.487	97	0.493	99	0.488	98
Zinc	0.500	0.5050	101	0.5000	0.496	99	0.505	101	0.496	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879488-2		R1879488-5		R1879488-7		R1879488-9		WG1975268-1	
Date Analyzed :	09/24/24 06:21		09/24/24 07:45		09/24/24 08:53		09/24/24 09:44		09/24/24 12:29	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00230	J	0.00190	U	0.0027	J
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1879488-11		R1879488-13		R1879488-15			
Date Analyzed :			09/24/24 10:43		09/24/24 11:34		09/24/24 12:22			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U	0.0318	U		
Antimony			0.00710	U	0.00710	U	0.00710	U		
Arsenic			0.00190	U	0.00355	J	0.00190	U		
Barium			0.00210	U	0.00210	U	0.00210	U		
Beryllium			0.000900	U	0.000900	U	0.000900	U		
Cadmium			0.00100	U	0.00100	U	0.00100	U		
Calcium			0.0350	U	0.0350	U	0.0350	U		
Chromium			0.00210	U	0.00210	U	0.00210	U		
Cobalt			0.00170	U	0.00170	U	0.00170	U		
Copper			0.00220	U	0.00220	U	0.00220	U		
Iron			0.00900	U	0.00900	U	0.00900	U		
Lead			0.00270	U	0.00270	U	0.00270	U		
Magnesium			0.0153	U	0.0153	U	0.0153	U		
Manganese			0.00160	U	0.00160	U	0.00160	U		
Nickel			0.00240	U	0.00240	U	0.00240	U		
Potassium			0.237	U	0.237	U	0.237	U		
Selenium			0.00350	U	0.00350	U	0.00350	U		
Silver			0.00280	U	0.00280	U	0.00280	U		
Sodium			0.120	U	0.120	U	0.120	U		
Thallium			0.00250	U	0.00250	U	0.00250	U		
Vanadium			0.00200	U	0.00200	U	0.00200	U		
Zinc			0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1879488-17		R1879488-19					
Date Analyzed :			09/24/24 13:12		09/24/24 14:01					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0318	U	0.0318	U				
Antimony			0.00710	U	0.00710	U				
Arsenic			0.00190	U	0.00210	J				
Barium			0.00210	U	0.00210	U				
Beryllium			0.000900	U	0.000900	U				
Cadmium			0.00100	U	0.00100	U				
Calcium			0.0350	U	0.0350	U				
Chromium			0.00210	U	0.00210	U				
Cobalt			0.00170	U	0.00170	U				
Copper			0.00220	U	0.00220	U				
Iron			0.00900	U	0.00900	U				
Lead			0.00270	U	0.00270	U				
Magnesium			0.0153	U	0.0153	U				
Manganese			0.00160	U	0.00160	U				
Nickel			0.00240	U	0.00240	U				
Potassium			0.237	U	0.237	U				
Selenium			0.00350	U	0.00350	U				
Silver			0.00280	U	0.00280	U				
Sodium			0.120	U	0.120	U				
Thallium			0.00250	U	0.00250	U				
Vanadium			0.00200	U	0.00200	U				
Zinc			0.00210	U	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879667-2		R1879667-7		R1879667-9		R1879667-11			
Date Analyzed :	09/24/24 09:31		09/24/24 11:37		09/24/24 11:51		09/24/24 13:11			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1879667-4		R1879667-13		R1879667-15		R1879667-17			
Date Analyzed	:	09/24/24 09:43		09/24/24 13:23		09/24/24 14:24		09/24/24 15:39			
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Antimony		0.00710	U	0.00710	U	0.00710	U	0.00710	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
Lab ID :			R1879667-19		R1879667-21			
Date Analyzed :			09/24/24 15:57		09/24/24 16:42			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	Q
Antimony			0.00710	U	0.00710	U			

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879982-2		R1879982-7		R1879982-9		R1879982-11		WG1975485-1	
Date Analyzed :	09/25/24 05:39		09/25/24 07:32		09/25/24 08:20		09/25/24 08:56		09/25/24 07:37	
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U	0.0021	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1879982-4				
Date Analyzed :	09/25/24 05:49				

Parameter	mg/l	Q	Q	Q	Q	Q
Aluminum	0.0318	U				
Antimony	0.00710	U				
Arsenic	0.00190	U				
Barium	0.00210	U				
Beryllium	0.000900	U				
Cadmium	0.00100	U				
Calcium	0.0350	U				
Chromium	0.00210	U				
Cobalt	0.00170	U				
Copper	0.00220	U				
Iron	0.00900	U				
Lead	0.00270	U				
Magnesium	0.0153	U				
Manganese	0.00160	U				
Nickel	0.00240	U				
Potassium	0.237	U				
Selenium	0.00350	U				
Silver	0.00280	U				
Sodium	0.120	U				
Thallium	0.00250	U				
Vanadium	0.00200	U				
Zinc	0.00210	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1880211-2		R1880211-7		R1880211-9		R1880211-11			
Date Analyzed :	09/25/24 10:51		09/25/24 12:27		09/25/24 13:44		09/25/24 15:11			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U		
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U		
Arsenic	0.00190	U	0.00190	U	0.00213	J	0.00190	U		
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U		
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U		
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U		
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U		
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U		
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U		
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U		
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U		
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U		
Potassium	0.237	U	0.237	U	0.237	U	0.237	U		
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U		
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U		
Sodium	0.120	U	0.120	U	0.120	U	0.207	J		
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00259	J		
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U		
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U		

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1880211-4				
Date Analyzed :	09/25/24 11:04				

Parameter	mg/l	Q	Q	Q	Q	Q
Aluminum	0.0318	U				
Antimony	0.00710	U				
Arsenic	0.00190	U				
Barium	0.00210	U				
Beryllium	0.000900	U				
Cadmium	0.00100	U				
Calcium	0.0350	U				
Chromium	0.00210	U				
Cobalt	0.00170	U				
Copper	0.00220	U				
Iron	0.00900	U				
Lead	0.00270	U				
Magnesium	0.0153	U				
Manganese	0.00160	U				
Nickel	0.00240	U				
Potassium	0.237	U				
Selenium	0.00350	U				
Silver	0.00280	U				
Sodium	0.120	U				
Thallium	0.00250	U				
Vanadium	0.00200	U				
Zinc	0.00210	U				

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1879488-3							
Analysis Date :			09/24/24 06:34							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		480.	96						
Antimony			-0.0108							
Arsenic			-0.00291							
Barium			0.00136							
Beryllium			0.0000592							
Cadmium			-0.000580							
Calcium	500		525.	105						
Chromium			-0.000716							
Cobalt			-0.000671							
Copper			0.000188							
Iron	200		174.	87						
Lead			-0.00390							
Magnesium	500		461.	92						
Manganese			-0.000454							
Nickel			-0.000343							
Potassium			-0.0137							
Selenium			-0.00534							
Silver			0.00249							
Sodium			0.0127							
Thallium			0.00169							
Vanadium			0.000907							
Zinc			-0.000820							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

			Initial Found				Final Found			
Lab ID	:		R1879667-5							
Analysis Date	:		09/24/24 10:06							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Antimony			0.00675							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1879982-5							
Analysis Date :			09/25/24 05:56							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		500.	100						
Antimony			-0.00398							
Arsenic			-0.00256							
Barium			0.00147							
Beryllium			0.0000413							
Cadmium			-0.000306							
Calcium	500		550.	110						
Chromium			-0.00109							
Cobalt			-0.000131							
Copper			-0.00173							
Iron	200		181.	90						
Lead			-0.0179							
Magnesium	500		480.	96						
Manganese			0.00166							
Nickel			-0.000515							
Potassium			-0.0426							
Selenium			-0.000757							
Silver			0.000357							
Sodium			0.00713							
Thallium			0.00383							
Vanadium			0.0000226							
Zinc			-0.000124							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Concentration Units**	: mg/l

	True		Initial Found				Final Found			
Lab ID :			R1880211-5							
Analysis Date :			09/25/24 11:19							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	500		490.	98						
Antimony			0.00765							
Arsenic			-0.00843							
Barium			0.00156							
Beryllium			-0.000104							
Cadmium			0.00333							
Calcium	500		544.	109						
Chromium			0.000736							
Cobalt			0.000326							
Copper			-0.0109							
Iron	200		182.	91						
Lead			-0.0122							
Magnesium	500		482.	96						
Manganese			0.000407							
Nickel			-0.00760							
Potassium			0.00959							
Selenium			0.00466							
Silver			0.00249							
Sodium			0.0479							
Thallium			-0.000260							
Vanadium			-0.000748							
Zinc			-0.00112							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453016-04		
Matrix Spike	: WG1975268-3	**MS Analysis Date**	: 09/24/24 13:41
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.204	2	2.15	97						75-125	20
Antimony, Total	ND	0.5	0.501	100						75-125	20
Arsenic, Total	ND	0.12	0.127	106						75-125	20
Barium, Total	0.010J	2	1.97	98						75-125	20
Beryllium, Total	ND	0.05	0.0501	100						75-125	20
Cadmium, Total	ND	0.053	0.0524	99						75-125	20
Calcium, Total	6.11	10	15.9	98						75-125	20
Chromium, Total	0.0043J	0.2	0.196	98						75-125	20
Cobalt, Total	ND	0.5	0.492	98						75-125	20
Copper, Total	0.0062J	0.25	0.250	100						75-125	20
Iron, Total	0.018J	1	1.02	102						75-125	20
Lead, Total	ND	0.53	0.527	99						75-125	20
Magnesium, Total	1.99	10	11.4	94						75-125	20
Manganese, Total	0.073	0.5	0.568	99						75-125	20
Nickel, Total	0.222	0.5	0.711	98						75-125	20
Potassium, Total	2.44J	10	12.5	125						75-125	20
Selenium, Total	ND	0.12	0.120	100						75-125	20
Silver, Total	ND	0.05	0.0494	99						75-125	20
Sodium, Total	289	10	291.	20	Q					75-125	20
Thallium, Total	ND	0.12	0.115	96						75-125	20
Vanadium, Total	ND	0.5	0.498	100						75-125	20
Zinc, Total	0.0189	0.5	0.539	104						75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975485-3	**MS Analysis Date**	: 09/25/24 08:01
Matrix Spike Dup	: WG1975485-4	**MSD Analysis Date**	: 09/25/24 08:05

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	2.04	102	2	2.04	102	0	75-125	20
Antimony, Dissolved	ND	0.5	0.489	98	0.5	0.490	98	0	75-125	20
Arsenic, Dissolved	ND	0.12	0.123	102	0.12	0.125	104	2	75-125	20
Barium, Dissolved	0.0306	2	2.09	103	2	2.09	103	0	75-125	20
Beryllium, Dissolved	ND	0.05	0.0533	107	0.05	0.0529	106	1	75-125	20
Cadmium, Dissolved	ND	0.053	0.0581	110	0.053	0.0576	109	1	75-125	20
Calcium, Dissolved	12.5	10	22.7	102	10	22.7	102	0	75-125	20
Chromium, Dissolved	ND	0.2	0.218	109	0.2	0.217	108	0	75-125	20
Cobalt, Dissolved	ND	0.5	0.542	108	0.5	0.535	107	1	75-125	20
Copper, Dissolved	ND	0.25	0.275	110	0.25	0.272	109	1	75-125	20
Iron, Dissolved	0.0133J	1	1.05	105	1	1.04	104	1	75-125	20
Lead, Dissolved	ND	0.53	0.547	103	0.53	0.555	105	1	75-125	20
Magnesium, Dissolved	6.11	10	16.6	105	10	16.6	105	0	75-125	20
Manganese, Dissolved	ND	0.5	0.523	105	0.5	0.522	104	0	75-125	20
Nickel, Dissolved	ND	0.5	0.545	109	0.5	0.540	108	1	75-125	20
Potassium, Dissolved	1.17J	10	11.4	114	10	11.5	115	1	75-125	20
Selenium, Dissolved	ND	0.12	0.127	106	0.12	0.129	108	2	75-125	20
Silver, Dissolved	ND	0.05	0.0560	112	0.05	0.0557	111	1	75-125	20
Sodium, Dissolved	16.9	10	27.0	101	10	27.2	103	1	75-125	20
Thallium, Dissolved	ND	0.12	0.124	103	0.12	0.126	105	2	75-125	20
Vanadium, Dissolved	ND	0.5	0.553	111	0.5	0.549	110	1	75-125	20
Zinc, Dissolved	0.0021J	0.5	0.555	111	0.5	0.548	110	1	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975268-7	**MS Analysis Date**	: 09/25/24 13:14
Matrix Spike Dup	: WG1975268-8	**MSD Analysis Date**	: 09/25/24 13:20

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	ND	2	2.05	102	2	1.98	99	3	75-125	20
Antimony, Total	ND	0.5	0.507	101	0.5	0.497	99	2	75-125	20
Arsenic, Total	ND	0.12	0.123	102	0.12	0.133	111	8	75-125	20
Barium, Total	0.0277	2	2.03	100	2	1.96	97	4	75-125	20
Beryllium, Total	ND	0.05	0.0518	104	0.05	0.0498	100	4	75-125	20
Cadmium, Total	ND	0.053	0.0551	104	0.053	0.0537	101	3	75-125	20
Calcium, Total	11.3	10	21.4	101	10	21.8	105	2	75-125	20
Chromium, Total	0.0021J	0.2	0.215	108	0.2	0.205	102	5	75-125	20
Cobalt, Total	ND	0.5	0.509	102	0.5	0.494	99	3	75-125	20
Copper, Total	ND	0.25	0.266	106	0.25	0.256	102	4	75-125	20
Iron, Total	0.0589	1	1.07	101	1	1.01	95	6	75-125	20
Lead, Total	ND	0.53	0.532	100	0.53	0.573	108	7	75-125	20
Magnesium, Total	5.57	10	15.8	102	10	16.1	105	2	75-125	20
Manganese, Total	ND	0.5	0.509	102	0.5	0.492	98	3	75-125	20
Nickel, Total	ND	0.5	0.510	102	0.5	0.494	99	3	75-125	20
Potassium, Total	1.10J	10	11.2	112	10	11.9	119	6	75-125	20
Selenium, Total	ND	0.12	0.121	101	0.12	0.127	106	5	75-125	20
Silver, Total	ND	0.05	0.0549	110	0.05	0.0527	105	4	75-125	20
Sodium, Total	18.0	10	29.5	115	10	29.0	110	2	75-125	20
Thallium, Total	ND	0.12	0.121	101	0.12	0.129	108	6	75-125	20
Vanadium, Total	ND	0.5	0.525	105	0.5	0.504	101	4	75-125	20
Zinc, Total	0.0026J	0.5	0.523	105	0.5	0.505	101	4	75-125	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 13:37
Dup Sample ID	: WG1975268-4	**DUP Analysis Date**	: 09/24/24 13:45

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Cadmium, Total	ND	ND	NC	20
Chromium, Total	0.0043J	0.0041J	NC	20
Copper, Total	0.0062J	0.0063J	NC	20
Lead, Total	ND	ND	NC	20
Nickel, Total	0.222	0.221	0	20
Silver, Total	ND	ND	NC	20
Zinc, Total	0.0189	0.0189	0	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975268-2	**LCS Analysis Date**	: 09/24/24 12:33
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	2.00	1.89	94.					85-115	20
Arsenic, Total	0.120	0.112	93.					85-115	20
Barium, Total	2.00	1.90	95.					85-115	20
Beryllium, Total	0.0500	0.0484	97.					85-115	20
Cadmium, Total	0.0530	0.0504	95.					85-115	20
Calcium, Total	10.0	9.54	95.					85-115	20
Chromium, Total	0.200	0.186	93.					85-115	20
Cobalt, Total	0.500	0.478	96.					85-115	20
Copper, Total	0.250	0.238	95.					85-115	20
Iron, Total	1.00	0.977	98.					85-115	20
Lead, Total	0.530	0.510	96.					85-115	20
Magnesium, Total	10.0	9.51	95.					85-115	20
Manganese, Total	0.500	0.480	96.					85-115	20
Nickel, Total	0.500	0.481	96.					85-115	20
Potassium, Total	10.0	9.77	98.					85-115	20
Selenium, Total	0.120	0.115	96.					85-115	20
Silver, Total	0.0500	0.0498	100.					85-115	20
Sodium, Total	10.0	9.62	96.					85-115	20
Thallium, Total	0.120	0.116	97.					85-115	20
Vanadium, Total	0.500	0.474	95.					85-115	20
Zinc, Total	0.500	0.481	96.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975268-2	**LCS Analysis Date**	: 09/24/24 16:03
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Antimony, Total	**0.500**	**0.512**	**102.**					**85-115**	**20**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975485-2	**LCS Analysis Date**	: 09/25/24 07:41
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	2.00	2.04	102.					85-115	20
Antimony, Dissolved	0.500	0.471	94.					85-115	20
Arsenic, Dissolved	0.120	0.121	101.					85-115	20
Barium, Dissolved	2.00	2.06	103.					85-115	20
Beryllium, Dissolved	0.0500	0.0521	104.					85-115	20
Cadmium, Dissolved	0.0530	0.0571	108.					85-115	20
Calcium, Dissolved	10.0	10.2	102.					85-115	20
Chromium, Dissolved	0.200	0.212	106.					85-115	20
Cobalt, Dissolved	0.500	0.532	106.					85-115	20
Copper, Dissolved	0.250	0.269	108.					85-115	20
Iron, Dissolved	1.00	1.04	104.					85-115	20
Lead, Dissolved	0.530	0.549	104.					85-115	20
Magnesium, Dissolved	10.0	10.4	104.					85-115	20
Manganese, Dissolved	0.500	0.524	105.					85-115	20
Nickel, Dissolved	0.500	0.535	107.					85-115	20
Potassium, Dissolved	10.0	10.4	104.					85-115	20
Selenium, Dissolved	0.120	0.122	102.					85-115	20
Silver, Dissolved	0.0500	0.0544	109.					85-115	20
Sodium, Dissolved	10.0	10.3	103.					85-115	20
Thallium, Dissolved	0.120	0.123	102.					85-115	20
Vanadium, Dissolved	0.500	0.539	108.					85-115	20
Zinc, Dissolved	0.500	0.539	108.					85-115	20

Form 8
Serial Dilutions

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/25/24 13:08
Serial Dilution ID	: WG1975268-10	**Analysis Date**	: 09/25/24 13:32

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	11.3	11.2	1	20
Magnesium, Total	5.57	5.46	2	20

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10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1975268-1	09/23/24 21:16	-	50
WG1975268-2	09/23/24 21:16	-	50
WG1975268-3	09/23/24 21:16	-	50
WG1975268-4	09/23/24 21:16	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1975268-2	09/23/24 21:16	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453720-01	09/24/24 10:15	-	50
L2453720-02	09/24/24 10:15	-	50
L2453720-03	09/24/24 10:15	-	50
L2453720-04	09/24/24 10:15	-	50
L2453720-06	09/24/24 10:15	-	50
L2453720-07	09/24/24 10:15	-	50
L2453720-08	09/24/24 10:15	-	50
L2453720-09	09/24/24 10:15	-	50
WG1975485-1	09/24/24 10:15	-	50
WG1975485-2	09/24/24 10:15	-	50
WG1975485-3	09/24/24 10:15	-	50
WG1975485-4	09/24/24 10:15	-	50

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453720-01	09/23/24 21:16	-	50
L2453720-02	09/23/24 21:16	-	50
L2453720-03	09/23/24 21:16	-	50
L2453720-04	09/23/24 21:16	-	50
L2453720-06	09/23/24 21:16	-	50
L2453720-07	09/23/24 21:16	-	50
L2453720-08	09/23/24 21:16	-	50
L2453720-09	09/23/24 21:16	-	50
WG1975268-7	09/23/24 21:16	-	50
WG1975268-8	09/23/24 21:16	-	50
WG1975268-10	09/23/24 21:16	-	50

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE9	**Analysis Method**	: 19,200.7
Start Date	: 09/24/24 06:17	**End Date**	: 09/24/24 14:01

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1879488-1 ICV	1	06:17:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-2 ICB	1	06:21:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-3 ICSA	1	06:34:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-4 CCV	1	07:41:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-5 CCB	1	07:45:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-6 CCV	1	08:49:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-7 CCB	1	08:53:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-8 CCV	1	09:40:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-9 CCB	1	09:44:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-10 CCV	1	10:39:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-11 CCB	1	10:43:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-12 CCV	1	11:30:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-13 CCB	1	11:34:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-14 CCV	1	12:18:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-15 CCB	1	12:22:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975268-1 BLANK	1	12:29:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975268-2 LCS	1	12:33:24	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-16 CCV	1	13:08:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-17 CCB	1	13:12:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975268-3 MS	1	13:41:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975268-4 DUP	1	13:45:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-18 CCV	1	13:57:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879488-19 CCB	1	14:01:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	:	**Analysis Method**	:
Start Date	: 09/24/24 09:24	**End Date**	: 09/24/24 16:42

Sample Number	Dilution Factor	Analysis Time	Antimony, Total
R1879667-1 ICV	1	09:24:57	X
R1879667-2 ICB	1	09:31:00	X
R1879667-3 ICV	1	09:37:19	X
R1879667-4 ICB	1	09:43:25	X
R1879667-5 ICSA	1	10:06:33	X
R1879667-6 CCV	1	11:31:27	X
R1879667-7 CCB	1	11:37:29	X
R1879667-8 CCV	1	11:45:43	X
R1879667-9 CCB	1	11:51:46	X
R1879667-10 CCV	1	13:05:31	X
R1879667-11 CCB	1	13:11:33	X
R1879667-12 CCV	1	13:17:52	X
R1879667-13 CCB	1	13:23:54	X
R1879667-14 CCV	1	14:18:53	X
R1879667-15 CCB	1	14:24:56	X
R1879667-16 CCV	1	15:33:26	X
R1879667-17 CCB	1	15:39:48	X
R1879667-18 CCV	1	15:51:22	X
R1879667-19 CCB	1	15:57:25	X
WG1975268-2 LCS	1	16:03:58	X
R1879667-20 CCV	1	16:36:44	X
R1879667-21 CCB	1	16:42:47	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE8	**Analysis Method**	: 19,200.7
Start Date	: 09/25/24 05:36	**End Date**	: 09/25/24 08:56

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1879982-1 ICV	1	05:36:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879982-2 ICB	1	05:39:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879982-3 ICV	1	05:45:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879982-4 ICB	1	05:49:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879982-5 ICSA	1	05:56:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879982-6 CCV	1	07:28:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879982-7 CCB	1	07:32:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975485-1 BLANK	1	07:37:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975485-2 LCS	1	07:41:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-02	1	07:57:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975485-3 MS	1	08:01:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975485-4 MSD	1	08:05:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879982-8 CCV	1	08:16:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879982-9 CCB	1	08:20:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-01	1	08:24:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-03	1	08:28:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-04	1	08:32:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-06	1	08:36:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-07	1	08:40:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-08	1	08:44:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-09	1	08:48:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879982-10 CCV	1	08:52:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1879982-11 CCB	1	08:56:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: TRACE5	**Analysis Method**	: 19,200.7
Start Date	: 09/25/24 10:45	**End Date**	: 09/25/24 15:11

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1880211-1 ICV	1	10:45:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880211-2 ICB	1	10:51:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880211-3 ICV	1	10:58:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880211-4 ICB	1	11:04:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880211-5 ICSA	1	11:19:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880211-6 CCV	1	12:21:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880211-7 CCB	1	12:27:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-01	1	12:43:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-03	1	12:49:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-04	1	12:55:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-06	1	13:01:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-02	1	13:08:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975268-7 MS	1	13:14:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975268-8 MSD	1	13:20:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1975268-10 SERDIL	5	13:32:31							X						X									
R1880211-8 CCV	1	13:38:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880211-9 CCB	1	13:44:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-07	1	13:55:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-08	1	14:01:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2453720-09	1	14:07:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880211-10 CCV	1	15:05:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1880211-11 CCB	1	15:11:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2962-1
Page: 1

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: Blank JMF Trace5
Analysis started at: 9/24/2024 9:12:36 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	-4.0 %	0.8 %	0.1 %	0.2 %	-0.5 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.5 %	0.0 %	0.2 %	0.0 %	2.4 %	0.0 %	0.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.5 %	2.7 %	0.8 %	-0.1 %	-0.1 %	-0.1 %	-0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	-0.7 %	-0.2 %	0.0 %	-0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.4 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICAL
Analysis started at: 9/24/2024 9:18:55 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0049 ppm	24.9199 ppm	0.9976 ppm	0.9978 ppm	0.9971 ppm	0.9961 ppm	9.9747 ppm
Concentration per Run 2	1.0061 ppm	25.5494 ppm	1.0003 ppm	1.0000 ppm	1.0212 ppm	1.0206 ppm	10.1919 ppm
Concentration per Run 3	0.9890 ppm	24.5308 ppm	1.0021 ppm	1.0022 ppm	0.9817 ppm	0.9833 ppm	9.8334 ppm
Concentration RSD	1.0 %	2.1 %	0.2 %	0.2 %	2.0 %	1.9 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9987 ppm	0.9982 ppm	1.0050 ppm	1.0048 ppm	24.8152 ppm	34.8602 ppm	0.9939 ppm
Concentration per Run 2	0.9993 ppm	0.9993 ppm	1.0049 ppm	1.0051 ppm	25.5303 ppm	35.7635 ppm	1.0229 ppm
Concentration per Run 3	1.0020 ppm	1.0025 ppm	0.9900 ppm	0.9901 ppm	24.6545 ppm	34.3763 ppm	0.9832 ppm
Concentration RSD	0.2 %	0.2 %	0.9 %	0.9 %	1.9 %	2.0 %	2.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0532 ppm	0.9954 ppm	0.9876 ppm	24.6963 ppm	0.9993 ppm	0.9984 ppm	0.9980 ppm
Concentration per Run 2	10.0432 ppm	1.0213 ppm	0.9995 ppm	25.4031 ppm	0.9991 ppm	1.0009 ppm	0.9982 ppm
Concentration per Run 3	9.9037 ppm	0.9833 ppm	1.0130 ppm	24.9007 ppm	1.0016 ppm	1.0007 ppm	1.0038 ppm
Concentration RSD	0.8 %	1.9 %	1.3 %	1.5 %	0.1 %	0.1 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9983 ppm	9.9962 ppm	0.9992 ppm	0.9941 ppm	1.0053 ppm	0.9969 ppm	1.0065 ppm
Concentration per Run 2	1.0019 ppm	9.9881 ppm	0.9989 ppm	1.0212 ppm	1.0051 ppm	1.0002 ppm	1.0045 ppm
Concentration per Run 3	0.9998 ppm	10.0157 ppm	1.0020 ppm	0.9848 ppm	0.9896 ppm	1.0028 ppm	0.9890 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	1.9 %	0.9 %	0.3 %	1.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	92.0162 %	94.2389 %	95.9169 %	102.0130 %	97.7745 %	99.0139 %
Concentration per Run 1	0.9986 ppm	92.1616 %	93.7692 %	95.9237 %	103.0368 %	97.9072 %	98.4742 %
Concentration per Run 2	1.0000 ppm	90.2599 %	93.8266 %	96.0993 %	100.5135 %	97.8100 %	98.5758 %
Concentration per Run 3	1.0014 ppm	93.6271 %	95.1210 %	95.7276 %	102.4888 %	97.6063 %	99.9916 %
Concentration RSD	0.1 %	1.8 %	0.8 %	0.2 %	1.3 %	0.2 %	0.9 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICV
Analysis started at: 9/24/2024 9:24:57 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5140 ppm	0.4901 ppm	0.4901 ppm	0.4935 ppm	0.4740 ppm	0.4852 ppm	0.4843 ppm
Concentration per Run 1	0.5125 ppm	0.4961 ppm	0.4911 ppm	0.4935 ppm	0.4834 ppm	0.4950 ppm	0.4963 ppm
Concentration per Run 2	0.5146 ppm	0.4844 ppm	0.4906 ppm	0.4931 ppm	0.4716 ppm	0.4825 ppm	0.4794 ppm
Concentration per Run 3	0.5149 ppm	0.4897 ppm	0.4886 ppm	0.4938 ppm	0.4669 ppm	0.4779 ppm	0.4773 ppm
Recovery Percentage 1	102.793 %	98.016 %	98.020 %	98.692 %	94.799 %	97.033 %	96.861 %
Concentration RSD	0.3 %	1.2 %	0.3 %	0.1 %	1.8 %	1.8 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4996 ppm	0.5108 ppm	0.5052 ppm	0.5001 ppm	0.4953 ppm	5.0387 ppm	0.4775 ppm
Concentration per Run 1	0.4992 ppm	0.5108 ppm	0.5046 ppm	0.4987 ppm	0.5023 ppm	5.1551 ppm	0.4910 ppm
Concentration per Run 2	0.5001 ppm	0.5108 ppm	0.5049 ppm	0.4997 ppm	0.4933 ppm	5.0220 ppm	0.4720 ppm
Concentration per Run 3	0.4994 ppm	0.5108 ppm	0.5059 ppm	0.5018 ppm	0.4902 ppm	4.9389 ppm	0.4696 ppm
Recovery Percentage 1	99.913 %	102.158 %	101.032 %	100.012 %	99.055 %	100.774 %	95.502 %
Concentration RSD	0.1 %	0.0 %	0.1 %	0.3 %	1.3 %	2.2 %	2.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5065 ppm	0.4795 ppm	0.5046 ppm	10.3834 ppm	0.5083 ppm	0.5066 ppm	0.5046 ppm
Concentration per Run 1	0.5060 ppm	0.4887 ppm	0.5005 ppm	10.5882 ppm	0.5080 ppm	0.5066 ppm	0.5044 ppm
Concentration per Run 2	0.5071 ppm	0.4772 ppm	0.5058 ppm	10.2986 ppm	0.5083 ppm	0.5077 ppm	0.5039 ppm
Concentration per Run 3	0.5064 ppm	0.4727 ppm	0.5076 ppm	10.2634 ppm	0.5085 ppm	0.5055 ppm	0.5053 ppm
Recovery Percentage 1	101.300 %	95.907 %	100.928 %	103.834 %	101.651 %	101.322 %	100.910 %
Concentration RSD	0.1 %	1.7 %	0.7 %	1.7 %	0.1 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4938 ppm	5.5238 ppm	0.4815 ppm	0.4656 ppm	0.5080 ppm	0.5072 ppm	0.4973 ppm
Concentration per Run 1	0.4911 ppm	5.5224 ppm	0.4810 ppm	0.4746 ppm	0.5075 ppm	0.5059 ppm	0.4959 ppm
Concentration per Run 2	0.4954 ppm	5.5295 ppm	0.4815 ppm	0.4635 ppm	0.5068 ppm	0.5068 ppm	0.4973 ppm
Concentration per Run 3	0.4949 ppm	5.5194 ppm	0.4818 ppm	0.4588 ppm	0.5095 ppm	0.5088 ppm	0.4986 ppm
Recovery Percentage 1	98.764 %	105.214 %	96.292 %	93.127 %	101.591 %	101.434 %	99.458 %
Concentration RSD	0.5 %	0.1 %	0.1 %	1.7 %	0.3 %	0.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5047 ppm	96.6279 %	96.2994 %	97.6555 %	100.7628 %	99.9521 %	99.5057 %
Concentration per Run 1	0.5043 ppm	94.8223 %	96.1320 %	97.7428 %	98.9110 %	100.0684 %	99.3244 %
Concentration per Run 2	0.5055 ppm	96.9480 %	96.6942 %	97.6845 %	101.1127 %	99.8276 %	99.8475 %
Concentration per Run 3	0.5044 ppm	98.1135 %	96.0721 %	97.5394 %	102.2647 %	99.9601 %	99.3454 %
Recovery Percentage 1	100.946 %						
Concentration RSD	0.1 %	1.7 %	0.4 %	0.1 %	1.7 %	0.1 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICB
Analysis started at: 9/24/2024 9:31:00 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0018 ppm	-0.0005 ppm	0.0013 ppm	0.0002 ppm	0.0002 ppm	-0.0017 ppm
Concentration per Run 1	-0.0002 ppm	-0.0060 ppm	-0.0013 ppm	0.0012 ppm	0.0003 ppm	0.0003 ppm	0.0025 ppm
Concentration per Run 2	0.0002 ppm	0.0025 ppm	-0.0005 ppm	0.0015 ppm	0.0001 ppm	0.0001 ppm	-0.0043 ppm
Concentration per Run 3	0.0001 ppm	0.0089 ppm	0.0003 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	-0.0034 ppm
Recovery Percentage 1	0.089 %	1.801 %	-10.147 %	4.412 %	1.578 %	3.239 %	-1.720 %
Concentration RSD	3,564.0 %	415.9 %	151.6 %	8.9 %	98.8 %	60.5 %	212.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0036 ppm	0.0005 ppm	-0.0021 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0021 ppm	-0.0083 ppm	-0.0035 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0037 ppm	0.0270 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0050 ppm	-0.0172 ppm	-0.0009 ppm
Recovery Percentage 1	-0.011 %	-0.722 %	0.577 %	0.278 %	7.226 %	0.020 %	-20.807 %
Concentration RSD	5,324.9 %	65.1 %	646.2 %	475.8 %	39.8 %	4,590.9 %	61.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0009 ppm	0.0001 ppm	0.0029 ppm	-0.0018 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0011 ppm	0.0004 ppm	0.0029 ppm	-0.0046 ppm	0.0000 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 2	0.0026 ppm	0.0002 ppm	0.0030 ppm	0.0053 ppm	0.0002 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 3	-0.0010 ppm	-0.0003 ppm	0.0026 ppm	-0.0060 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm
Recovery Percentage 1	0.910 %	1.049 %	5.731 %	-0.089 %	0.316 %	-2.482 %	0.001 %
Concentration RSD	200.0 %	376.4 %	7.3 %	346.2 %	115.1 %	61.4 %	201,178.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0004 ppm
Concentration per Run 1	-0.0017 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 2	-0.0022 ppm	0.0016 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0022 ppm	0.0006 ppm
Concentration per Run 3	0.0027 ppm	-0.0006 ppm	-0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm
Recovery Percentage 1	-4.273 %	0.111 %	-0.289 %	1.341 %	4.511 %	6.784 %	3.527 %
Concentration RSD	634.2 %	195.3 %	216.4 %	81.4 %	54.2 %	68.3 %	68.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	99.5179 %	97.3972 %	98.1964 %	96.3664 %	99.4060 %	97.9956 %
Concentration per Run 1	0.0000 ppm	98.1907 %	97.8424 %	98.5264 %	93.8228 %	99.5439 %	98.2756 %
Concentration per Run 2	-0.0001 ppm	99.7056 %	97.3853 %	98.2424 %	96.7748 %	99.5953 %	98.1259 %
Concentration per Run 3	0.0000 ppm	100.6574 %	96.9639 %	97.8203 %	98.5017 %	99.0789 %	97.5854 %
Recovery Percentage 1	-0.288 %						
Concentration RSD	445.9 %	1.3 %	0.5 %	0.4 %	2.5 %	0.3 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICV
Analysis started at: 9/24/2024 9:37:19 AM
Comments position changed
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5360 ppm	0.5015 ppm	0.5139 ppm	0.5177 ppm	0.4942 ppm	0.5013 ppm	0.4975 ppm
Concentration per Run 1	0.5360 ppm	0.4945 ppm	0.5191 ppm	0.5213 ppm	0.4905 ppm	0.4957 ppm	0.4882 ppm
Concentration per Run 2	0.5352 ppm	0.5042 ppm	0.5127 ppm	0.5167 ppm	0.4983 ppm	0.5064 ppm	0.5034 ppm
Concentration per Run 3	0.5368 ppm	0.5056 ppm	0.5097 ppm	0.5151 ppm	0.4938 ppm	0.5017 ppm	0.5009 ppm
Recovery Percentage 1	107.200 %	100.290 %	102.771 %	103.544 %	98.839 %	100.255 %	99.506 %
Concentration RSD	0.2 %	1.2 %	0.9 %	0.6 %	0.8 %	1.1 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5248 ppm	0.5371 ppm	0.5294 ppm	0.5224 ppm	0.5171 ppm	5.2171 ppm	0.5067 ppm
Concentration per Run 1	0.5288 ppm	0.5413 ppm	0.5299 ppm	0.5215 ppm	0.5098 ppm	5.1719 ppm	0.5010 ppm
Concentration per Run 2	0.5229 ppm	0.5351 ppm	0.5278 ppm	0.5231 ppm	0.5198 ppm	5.2859 ppm	0.5120 ppm
Concentration per Run 3	0.5226 ppm	0.5349 ppm	0.5304 ppm	0.5225 ppm	0.5217 ppm	5.1935 ppm	0.5070 ppm
Recovery Percentage 1	104.953 %	107.423 %	105.874 %	104.481 %	103.426 %	104.342 %	101.336 %
Concentration RSD	0.7 %	0.7 %	0.3 %	0.2 %	1.2 %	1.2 %	1.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5255 ppm	0.4978 ppm	0.5290 ppm	10.7713 ppm	0.5320 ppm	0.5300 ppm	0.5283 ppm
Concentration per Run 1	0.5257 ppm	0.4928 ppm	0.5285 ppm	10.7065 ppm	0.5356 ppm	0.5339 ppm	0.5316 ppm
Concentration per Run 2	0.5269 ppm	0.5031 ppm	0.5270 ppm	10.8472 ppm	0.5305 ppm	0.5286 ppm	0.5267 ppm
Concentration per Run 3	0.5240 ppm	0.4976 ppm	0.5315 ppm	10.7602 ppm	0.5298 ppm	0.5274 ppm	0.5268 ppm
Recovery Percentage 1	105.104 %	99.563 %	105.798 %	107.713 %	106.392 %	105.991 %	105.670 %
Concentration RSD	0.3 %	1.0 %	0.4 %	0.7 %	0.6 %	0.6 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5153 ppm	5.9298 ppm	0.5161 ppm	0.4948 ppm	0.5292 ppm	0.5353 ppm	0.5190 ppm
Concentration per Run 1	0.5184 ppm	5.9778 ppm	0.5210 ppm	0.4904 ppm	0.5286 ppm	0.5401 ppm	0.5190 ppm
Concentration per Run 2	0.5140 ppm	5.9126 ppm	0.5128 ppm	0.4990 ppm	0.5285 ppm	0.5336 ppm	0.5184 ppm
Concentration per Run 3	0.5133 ppm	5.8990 ppm	0.5144 ppm	0.4950 ppm	0.5305 ppm	0.5321 ppm	0.5197 ppm
Recovery Percentage 1	103.052 %	112.949 %	103.218 %	98.956 %	105.838 %	107.050 %	103.805 %
Concentration RSD	0.5 %	0.7 %	0.8 %	0.9 %	0.2 %	0.8 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5295 ppm	97.4898 %	96.0242 %	96.5079 %	102.4452 %	99.5743 %	99.9660 %
Concentration per Run 1	0.5343 ppm	99.0129 %	95.6633 %	95.9473 %	103.7720 %	98.7694 %	99.7144 %
Concentration per Run 2	0.5275 ppm	95.8819 %	96.2625 %	96.9929 %	101.0246 %	99.8769 %	100.1979 %
Concentration per Run 3	0.5268 ppm	97.5747 %	96.1468 %	96.5835 %	102.5391 %	100.0767 %	99.9857 %
Recovery Percentage 1	105.902 %						
Concentration RSD	0.8 %	1.6 %	0.3 %	0.5 %	1.3 %	0.7 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICB
Analysis started at: 9/24/2024 9:43:25 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0025 ppm	-0.0018 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	-0.0017 ppm
Concentration per Run 1	0.0000 ppm	0.0058 ppm	-0.0019 ppm	0.0018 ppm	0.0001 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 2	-0.0003 ppm	0.0017 ppm	-0.0013 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 3	-0.0004 ppm	0.0001 ppm	-0.0023 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	-0.0027 ppm
Recovery Percentage 1	-3.450 %	2.536 %	-36.572 %	3.868 %	0.982 %	1.491 %	-1.672 %
Concentration RSD	87.3 %	117.2 %	28.0 %	48.4 %	83.9 %	44.0 %	52.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0103 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0020 ppm	-0.0112 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	-0.0110 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	-0.0086 ppm	-0.0004 ppm
Recovery Percentage 1	-0.139 %	-0.519 %	-0.749 %	0.136 %	-0.193 %	-0.411 %	-3.923 %
Concentration RSD	297.8 %	73.2 %	68.3 %	2,552.8 %	1,667.9 %	13.9 %	176.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0031 ppm	0.0000 ppm	0.0025 ppm	-0.0203 ppm	0.0001 ppm	-0.0005 ppm	0.0018 ppm
Concentration per Run 1	-0.0062 ppm	-0.0004 ppm	0.0026 ppm	-0.0340 ppm	0.0002 ppm	-0.0011 ppm	0.0009 ppm
Concentration per Run 2	-0.0009 ppm	0.0004 ppm	0.0025 ppm	-0.0252 ppm	0.0000 ppm	-0.0007 ppm	0.0027 ppm
Concentration per Run 3	-0.0022 ppm	0.0000 ppm	0.0023 ppm	-0.0016 ppm	0.0001 ppm	0.0003 ppm	0.0018 ppm
Recovery Percentage 1	-3.112 %	0.085 %	4.965 %	-1.014 %	0.375 %	-5.114 %	3.601 %
Concentration RSD	88.5 %	4,278.8 %	6.8 %	82.7 %	129.6 %	138.0 %	48.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	0.0005 ppm	-0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	-0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 2	0.0018 ppm	0.0008 ppm	-0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 3	0.0025 ppm	0.0009 ppm	-0.0007 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	-0.0002 ppm
Recovery Percentage 1	12.574 %	0.106 %	-0.711 %	1.336 %	2.258 %	2.869 %	0.701 %
Concentration RSD	124.8 %	106.9 %	181.3 %	60.5 %	127.0 %	177.3 %	375.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	99.2640 %	97.7379 %	98.2883 %	96.3401 %	99.5735 %	98.1684 %
Concentration per Run 1	-0.0001 ppm	97.9698 %	98.0190 %	98.0077 %	93.8629 %	99.0848 %	98.3008 %
Concentration per Run 2	-0.0001 ppm	99.4153 %	97.5181 %	98.9116 %	96.6973 %	100.2225 %	97.9684 %
Concentration per Run 3	0.0000 ppm	100.4069 %	97.6765 %	97.9458 %	98.4602 %	99.4131 %	98.2360 %
Recovery Percentage 1	-2.054 %						
Concentration RSD	54.4 %	1.2 %	0.3 %	0.6 %	2.4 %	0.6 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LLOQ RL
Analysis started at: 9/24/2024 9:49:44 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0049 ppm	0.0978 ppm	0.0043 ppm	0.0318 ppm	0.0096 ppm	0.0048 ppm	0.0937 ppm
Concentration per Run 1	0.0047 ppm	0.1005 ppm	0.0043 ppm	0.0314 ppm	0.0100 ppm	0.0049 ppm	0.0995 ppm
Concentration per Run 2	0.0048 ppm	0.0941 ppm	0.0050 ppm	0.0321 ppm	0.0094 ppm	0.0048 ppm	0.0913 ppm
Concentration per Run 3	0.0052 ppm	0.0987 ppm	0.0035 ppm	0.0318 ppm	0.0095 ppm	0.0047 ppm	0.0904 ppm
Recovery Percentage 1	97.936 %	97.786 %	85.024 %	105.849 %	96.127 %	95.964 %	93.740 %
Concentration RSD	5.5 %	3.4 %	17.1 %	1.1 %	3.2 %	1.9 %	5.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0041 ppm	0.0207 ppm	0.0096 ppm	0.0105 ppm	0.0536 ppm	2.5149 ppm	0.0075 ppm
Concentration per Run 1	0.0042 ppm	0.0207 ppm	0.0095 ppm	0.0103 ppm	0.0539 ppm	2.5484 ppm	0.0089 ppm
Concentration per Run 2	0.0041 ppm	0.0206 ppm	0.0097 ppm	0.0106 ppm	0.0543 ppm	2.4871 ppm	0.0059 ppm
Concentration per Run 3	0.0041 ppm	0.0208 ppm	0.0096 ppm	0.0105 ppm	0.0525 ppm	2.5092 ppm	0.0076 ppm
Recovery Percentage 1	102.930 %	103.479 %	96.020 %	104.550 %	107.117 %	100.595 %	74.692 %
Concentration RSD	1.0 %	0.7 %	0.6 %	1.3 %	1.8 %	1.2 %	19.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1039 ppm	0.0100 ppm	0.0532 ppm	2.1943 ppm	0.0198 ppm	0.0111 ppm	0.0516 ppm
Concentration per Run 1	0.1062 ppm	0.0099 ppm	0.0532 ppm	2.2617 ppm	0.0200 ppm	0.0108 ppm	0.0509 ppm
Concentration per Run 2	0.1002 ppm	0.0102 ppm	0.0532 ppm	2.1760 ppm	0.0197 ppm	0.0105 ppm	0.0530 ppm
Concentration per Run 3	0.1054 ppm	0.0098 ppm	0.0531 ppm	2.1451 ppm	0.0196 ppm	0.0119 ppm	0.0509 ppm
Recovery Percentage 1	103.937 %	99.617 %	106.326 %	109.713 %	98.923 %	110.561 %	103.251 %
Concentration RSD	3.1 %	1.8 %	0.2 %	2.8 %	1.1 %	7.0 %	2.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0100 ppm	0.5394 ppm	0.0487 ppm	0.0095 ppm	0.0516 ppm	0.0215 ppm	0.0107 ppm
Concentration per Run 1	0.0086 ppm	0.5418 ppm	0.0487 ppm	0.0097 ppm	0.0519 ppm	0.0217 ppm	0.0106 ppm
Concentration per Run 2	0.0103 ppm	0.5382 ppm	0.0487 ppm	0.0094 ppm	0.0513 ppm	0.0216 ppm	0.0110 ppm
Concentration per Run 3	0.0113 ppm	0.5383 ppm	0.0487 ppm	0.0095 ppm	0.0516 ppm	0.0212 ppm	0.0104 ppm
Recovery Percentage 1	100.424 %	107.889 %	97.400 %	95.236 %	103.151 %	107.421 %	106.687 %
Concentration RSD	13.7 %	0.4 %	0.1 %	1.6 %	0.6 %	1.2 %	2.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0054 ppm	98.3564 %	96.7532 %	97.4468 %	98.2970 %	100.2689 %	99.7615 %
Concentration per Run 1	0.0055 ppm	96.0671 %	96.8899 %	97.4213 %	95.2066 %	100.1296 %	99.6883 %
Concentration per Run 2	0.0054 ppm	98.8392 %	97.2406 %	97.5392 %	98.6318 %	100.5206 %	100.1204 %
Concentration per Run 3	0.0054 ppm	100.1628 %	96.1290 %	97.3799 %	101.0527 %	100.1565 %	99.4756 %
Recovery Percentage 1	108.686 %						
Concentration RSD	0.4 %	2.1 %	0.6 %	0.1 %	3.0 %	0.2 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: ICSA
Analysis started at: 9/24/2024 10:06:33 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0028 ppm	484.0028 ppm	-0.0059 ppm	-0.0053 ppm	0.0016 ppm	-0.0001 ppm	539.1971 [SIC 1000]
Concentration per Run 1	0.0040 ppm	508.0599 ppm	-0.0091 ppm	-0.0060 ppm	0.0017 ppm	-0.0002 ppm	556.3880 ppm
Concentration per Run 2	0.0021 ppm	477.0258 ppm	-0.0046 ppm	-0.0051 ppm	0.0017 ppm	0.0000 ppm	532.8993 ppm
Concentration per Run 3	0.0024 ppm	466.9228 ppm	-0.0042 ppm	-0.0049 ppm	0.0016 ppm	0.0000 ppm	528.3040 ppm
Recovery Percentage 1	40.587 %	484,002.809 %	-118.912 %	-17.736 %	16.381 %	-1.767 %	539,197.080 %
Concentration RSD	34.7 %	4.4 %	45.3 %	10.4 %	4.0 %	96.9 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0031 ppm	0.0002 ppm	-0.0007 ppm	-0.0091 ppm	179.6320 ppm	-0.0132 ppm	-0.0199 ppm
Concentration per Run 1	0.0031 ppm	-0.0001 ppm	-0.0010 ppm	-0.0096 ppm	186.5615 ppm	0.0003 ppm	-0.0211 ppm
Concentration per Run 2	0.0030 ppm	0.0003 ppm	-0.0008 ppm	-0.0092 ppm	178.3388 ppm	-0.0041 ppm	-0.0190 ppm
Concentration per Run 3	0.0031 ppm	0.0004 ppm	-0.0003 ppm	-0.0086 ppm	173.9958 ppm	-0.0358 ppm	-0.0195 ppm
Recovery Percentage 1	76.502 %	1.087 %	-7.157 %	-91.307 %	359,264.090 %	-0.527 %	-198.699 %
Concentration RSD	2.1 %	121.9 %	46.4 %	5.1 %	3.6 %	149.4 %	5.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	477.3882 ppm	0.0003 ppm	-0.0016 ppm	0.0258 ppm	-0.0076 ppm	-0.0145 ppm	0.0068 ppm
Concentration per Run 1	482.6457 ppm	0.0004 ppm	-0.0019 ppm	0.0197 ppm	-0.0073 ppm	-0.0138 ppm	0.0101 ppm
Concentration per Run 2	482.8202 ppm	0.0004 ppm	-0.0014 ppm	0.0320 ppm	-0.0077 ppm	-0.0158 ppm	0.0054 ppm
Concentration per Run 3	466.6988 ppm	0.0001 ppm	-0.0013 ppm	0.0257 ppm	-0.0078 ppm	-0.0138 ppm	0.0048 ppm
Recovery Percentage 1	477,388.230 %	2.935 %	-3.104 %	1.290 %	-30.363 %	-144.785 %	13.500 %
Concentration RSD	1.9 %	68.9 %	19.2 %	23.9 %	3.7 %	7.8 %	42.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	-0.0022 ppm	0.0003 ppm	0.0039 ppm	-0.0010 ppm	0.0003 ppm	-0.0007 ppm
Concentration per Run 1	-0.0033 ppm	-0.0032 ppm	0.0008 ppm	0.0040 ppm	-0.0007 ppm	0.0027 ppm	-0.0006 ppm
Concentration per Run 2	0.0053 ppm	-0.0026 ppm	0.0006 ppm	0.0038 ppm	-0.0009 ppm	-0.0017 ppm	-0.0010 ppm
Concentration per Run 3	0.0002 ppm	-0.0009 ppm	-0.0006 ppm	0.0039 ppm	-0.0014 ppm	-0.0001 ppm	-0.0004 ppm
Recovery Percentage 1	7.377 %	-0.446 %	0.583 %	38.842 %	-9.742 %	1.561 %	-6.728 %
Concentration RSD	589.9 %	52.1 %	253.9 %	3.0 %	37.3 %	697.6 %	41.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0011 ppm	90.2627 %	83.4924 %	84.9287 %	96.5835 %	79.6784 %	87.9968 %
Concentration per Run 1	-0.0011 ppm	86.4339 %	82.8062 %	85.0040 %	93.6656 %	79.8291 %	87.3665 %
Concentration per Run 2	-0.0011 ppm	91.6465 %	83.1298 %	84.9266 %	97.8434 %	79.5081 %	87.5820 %
Concentration per Run 3	-0.0010 ppm	92.7078 %	84.5410 %	84.8555 %	98.2414 %	79.6981 %	89.0419 %
Recovery Percentage 1	-21.111 %						
Concentration RSD	6.6 %	3.7 %	1.1 %	0.1 %	2.6 %	0.2 %	1.0 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: xLDR 400 Fe Fail
Analysis started at: 9/24/2024 10:13:16 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0053 ppm	0.0469 ppm	-0.0058 ppm	0.0007 ppm	0.0005 ppm	0.0000 ppm	0.0384 ppm
Concentration per Run 1	0.0051 ppm	0.0391 ppm	-0.0065 ppm	0.0009 ppm	0.0006 ppm	0.0000 ppm	0.0364 ppm
Concentration per Run 2	0.0055 ppm	0.0622 ppm	-0.0048 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0493 ppm
Concentration per Run 3	0.0053 ppm	0.0392 ppm	-0.0063 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0296 ppm
Concentration RSD	3.0 %	28.4 %	16.0 %	51.1 %	36.4 %	391.6 %	26.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0027 ppm	-0.0006 ppm	-0.0015 ppm	-0.0227 ppm	356.5900 [SIC 500]	-0.0626 ppm	-0.0020 ppm
Concentration per Run 1	0.0027 ppm	-0.0007 ppm	-0.0013 ppm	-0.0224 ppm	362.0132 ppm	-0.0332 ppm	-0.0025 ppm
Concentration per Run 2	0.0027 ppm	-0.0005 ppm	-0.0017 ppm	-0.0227 ppm	358.2177 ppm	-0.0363 ppm	-0.0017 ppm
Concentration per Run 3	0.0029 ppm	-0.0006 ppm	-0.0014 ppm	-0.0231 ppm	349.5392 ppm	-0.1184 ppm	-0.0017 ppm
Concentration RSD	4.5 %	16.3 %	13.0 %	1.6 %	1.8 %	77.1 %	22.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0002 ppm	-0.0003 ppm	-0.0039 ppm	-0.0018 ppm	-0.0102 ppm	0.0025 ppm	0.0083 ppm
Concentration per Run 1	0.0009 ppm	-0.0008 ppm	-0.0039 ppm	-0.0060 ppm	-0.0100 ppm	0.0022 ppm	0.0080 ppm
Concentration per Run 2	-0.0015 ppm	-0.0002 ppm	-0.0042 ppm	-0.0067 ppm	-0.0103 ppm	0.0020 ppm	0.0091 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	-0.0035 ppm	0.0073 ppm	-0.0103 ppm	0.0032 ppm	0.0079 ppm
Concentration RSD	562.3 %	193.2 %	9.3 %	435.9 %	1.7 %	25.4 %	8.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0026 ppm	0.0008 ppm	0.0004 ppm	-0.0001 ppm	0.0055 ppm	-0.0001 ppm
Concentration per Run 1	0.0009 ppm	0.0028 ppm	0.0009 ppm	0.0004 ppm	0.0001 ppm	0.0054 ppm	-0.0002 ppm
Concentration per Run 2	-0.0012 ppm	0.0027 ppm	0.0009 ppm	0.0004 ppm	-0.0003 ppm	0.0050 ppm	-0.0004 ppm
Concentration per Run 3	0.0018 ppm	0.0023 ppm	0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0060 ppm	0.0001 ppm
Concentration RSD	294.0 %	10.1 %	36.8 %	4.0 %	343.8 %	9.7 %	164.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0012 ppm	99.8099 %	95.4144 %	95.8618 %	106.0597 %	98.1666 %	100.7255 %
Concentration per Run 1	-0.0012 ppm	98.9075 %	95.3968 %	95.1912 %	104.8637 %	97.4960 %	100.6903 %
Concentration per Run 2	-0.0013 ppm	99.7537 %	95.3899 %	96.3433 %	105.9216 %	98.6080 %	100.9009 %
Concentration per Run 3	-0.0010 ppm	100.7687 %	95.4565 %	96.0510 %	107.3939 %	98.3959 %	100.5851 %
Concentration RSD	12.9 %	0.9 %	0.0 %	0.6 %	1.2 %	0.6 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 800 Ca pass
Analysis started at: 9/24/2024 10:19:39 AM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.0315 ppm	-0.0007 ppm	0.0036 ppm	0.0006 ppm	-0.0001 ppm	729.6285 [SIC 1000]
Concentration per Run 1	-0.0003 ppm	0.0345 ppm	-0.0011 ppm	0.0040 ppm	0.0007 ppm	-0.0001 ppm	745.5610 ppm
Concentration per Run 2	-0.0008 ppm	0.0368 ppm	-0.0013 ppm	0.0037 ppm	0.0005 ppm	-0.0001 ppm	728.2433 ppm
Concentration per Run 3	-0.0006 ppm	0.0232 ppm	0.0002 ppm	0.0032 ppm	0.0007 ppm	-0.0001 ppm	715.0812 ppm
Concentration RSD	37.0 %	23.1 %	117.4 %	11.5 %	12.9 %	23.0 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0041 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm	0.1512 ppm	0.0051 ppm	-0.0226 ppm
Concentration per Run 1	0.0041 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.1466 ppm	0.0301 ppm	-0.0214 ppm
Concentration per Run 2	0.0041 ppm	0.0004 ppm	0.0003 ppm	0.0011 ppm	0.1431 ppm	0.0308 ppm	-0.0219 ppm
Concentration per Run 3	0.0041 ppm	0.0004 ppm	0.0005 ppm	0.0009 ppm	0.1639 ppm	-0.0455 ppm	-0.0246 ppm
Concentration RSD	0.5 %	20.7 %	153.5 %	30.9 %	7.4 %	856.4 %	7.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0127 ppm	0.0001 ppm	0.0000 ppm	0.0121 ppm	-0.0002 ppm	-0.0002 ppm	-0.0011 ppm
Concentration per Run 1	0.0117 ppm	0.0002 ppm	0.0000 ppm	0.0034 ppm	-0.0005 ppm	-0.0009 ppm	-0.0011 ppm
Concentration per Run 2	0.0128 ppm	-0.0001 ppm	0.0001 ppm	0.0234 ppm	-0.0007 ppm	0.0005 ppm	-0.0023 ppm
Concentration per Run 3	0.0136 ppm	0.0004 ppm	0.0000 ppm	0.0096 ppm	0.0005 ppm	-0.0003 ppm	0.0002 ppm
Concentration RSD	7.4 %	192.4 %	166.5 %	84.1 %	277.1 %	334.8 %	119.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.0034 ppm	-0.0002 ppm	0.0049 ppm	-0.0031 ppm	0.0009 ppm	0.0007 ppm
Concentration per Run 1	-0.0005 ppm	0.0039 ppm	-0.0005 ppm	0.0049 ppm	-0.0029 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0032 ppm	0.0027 ppm	0.0003 ppm	0.0048 ppm	-0.0031 ppm	0.0008 ppm	0.0012 ppm
Concentration per Run 3	0.0023 ppm	0.0037 ppm	-0.0003 ppm	0.0049 ppm	-0.0033 ppm	0.0018 ppm	0.0008 ppm
Concentration RSD	569.4 %	18.9 %	242.7 %	1.3 %	6.4 %	100.1 %	68.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0024 ppm	93.2231 %	87.4243 %	87.9668 %	94.3997 %	83.6718 %	89.4493 %
Concentration per Run 1	0.0024 ppm	92.2470 %	88.0725 %	87.6786 %	92.7175 %	83.2959 %	90.0959 %
Concentration per Run 2	0.0024 ppm	93.2192 %	87.2539 %	88.3169 %	94.4724 %	84.0428 %	89.1521 %
Concentration per Run 3	0.0023 ppm	94.2030 %	86.9467 %	87.9048 %	96.0092 %	83.6767 %	89.1000 %
Concentration RSD	2.8 %	1.0 %	0.7 %	0.4 %	1.7 %	0.4 %	0.6 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: SIC Multi
Analysis started at: 9/24/2024 10:37:57 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0068 ppm	-0.0004 ppm	0.0095 ppm	0.0009 ppm	0.0036 ppm	0.0085 ppm
Concentration per Run 1	-0.0002 ppm	0.0065 ppm	-0.0014 ppm	0.0092 ppm	0.0009 ppm	0.0037 ppm	0.0120 ppm
Concentration per Run 2	-0.0005 ppm	0.0050 ppm	-0.0011 ppm	0.0099 ppm	0.0009 ppm	0.0036 ppm	0.0076 ppm
Concentration per Run 3	0.0000 ppm	0.0088 ppm	0.0013 ppm	0.0094 ppm	0.0010 ppm	0.0035 ppm	0.0060 ppm
Recovery Percentage 1	-3.231 %	6.785 %	-7.464 %	31.611 %	9.220 %	71.921 %	8.501 %
Concentration RSD	103.0 %	28.5 %	392.2 %	3.6 %	4.2 %	3.0 %	36.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0007 ppm	20.5562 ppm	-0.0102 ppm	-0.0756 ppm	-0.0184 ppm	-0.0004 ppm
Concentration per Run 1	-0.0002 ppm	0.0005 ppm	20.6178 ppm	-0.0102 ppm	-0.0762 ppm	-0.0227 ppm	0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	20.5841 ppm	-0.0105 ppm	-0.0759 ppm	-0.0081 ppm	-0.0007 ppm
Concentration per Run 3	-0.0002 ppm	0.0007 ppm	20.4668 ppm	-0.0098 ppm	-0.0747 ppm	-0.0245 ppm	-0.0009 ppm
Recovery Percentage 1	-3.544 %	3.528 %	205,562.295 %	-101.550 %	-151.226 %	-0.737 %	-3.844 %
Concentration RSD	17.7 %	22.4 %	0.4 %	3.7 %	1.0 %	48.8 %	186.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0034 ppm	19.1206 ppm	0.0018 ppm	0.0409 ppm	-0.0002 ppm	0.0054 ppm	0.0173 ppm
Concentration per Run 1	-0.0008 ppm	19.0538 ppm	0.0022 ppm	0.0327 ppm	-0.0001 ppm	0.0060 ppm	0.0160 ppm
Concentration per Run 2	-0.0047 ppm	19.0421 ppm	0.0016 ppm	0.0461 ppm	-0.0005 ppm	0.0052 ppm	0.0196 ppm
Concentration per Run 3	-0.0046 ppm	19.2661 ppm	0.0016 ppm	0.0439 ppm	0.0001 ppm	0.0050 ppm	0.0163 ppm
Recovery Percentage 1	-3.390 %	191,206.498 %	3.653 %	2.046 %	-0.652 %	54.144 %	34.562 %
Concentration RSD	66.2 %	0.7 %	18.4 %	17.5 %	167.2 %	10.4 %	11.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0020 ppm	0.0484 ppm	-0.0005 ppm	0.0004 ppm	19.8651 ppm	0.0098 ppm	10.1056 [SIC 10]
Concentration per Run 1	0.0033 ppm	0.0493 ppm	0.0002 ppm	0.0004 ppm	19.8730 ppm	0.0115 ppm	10.0857 ppm
Concentration per Run 2	0.0005 ppm	0.0490 ppm	-0.0010 ppm	0.0005 ppm	19.9464 ppm	0.0103 ppm	10.1260 ppm
Concentration per Run 3	0.0021 ppm	0.0468 ppm	-0.0008 ppm	0.0002 ppm	19.7761 ppm	0.0075 ppm	10.1052 ppm
Recovery Percentage 1	19.745 %	9.674 %	-1.090 %	3.754 %	198,651.403 %	48.784 %	101,056.116 %
Concentration RSD	72.6 %	2.8 %	119.7 %	35.1 %	0.4 %	21.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0051 ppm	101.3196 %	97.5728 %	98.9881 %	109.5324 %	101.5591 %	101.2584 %
Concentration per Run 1	-0.0050 ppm	101.2239 %	97.7122 %	99.1236 %	110.8230 %	101.6621 %	101.3011 %
Concentration per Run 2	-0.0052 ppm	101.3583 %	97.0503 %	98.9052 %	108.9535 %	101.5416 %	100.7507 %
Concentration per Run 3	-0.0051 ppm	101.3767 %	97.9557 %	98.9355 %	108.8207 %	101.4735 %	101.7232 %
Recovery Percentage 1	-101.477 %						
Concentration RSD	1.7 %	0.1 %	0.5 %	0.1 %	1.0 %	0.1 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: IEC 500 AI
Analysis started at: 9/24/2024 10:44:39 AM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	449.7344 ppm	0.0024 ppm	-0.0089 ppm	0.0000 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	0.0002 ppm	449.6701 ppm	-0.0003 ppm	-0.0091 ppm	0.0001 ppm	0.0000 ppm	0.0087 ppm
Concentration per Run 2	-0.0006 ppm	448.3745 ppm	0.0036 ppm	-0.0091 ppm	-0.0003 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 3	-0.0001 ppm	451.1587 ppm	0.0038 ppm	-0.0084 ppm	0.0003 ppm	0.0000 ppm	0.0066 ppm
Recovery Percentage 1	-2.721 %	449,734.423 %	47.569 %	-29.668 %	0.434 %	0.822 %	6.449 %
Concentration RSD	210.9 %	0.3 %	96.8 %	4.5 %	674.8 %	82.8 %	35.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0010 ppm	0.0000 ppm	0.0023 ppm	0.0002 ppm	-0.0045 ppm	-0.0069 ppm	-0.0035 ppm
Concentration per Run 1	-0.0010 ppm	0.0001 ppm	0.0028 ppm	-0.0001 ppm	-0.0039 ppm	0.0081 ppm	-0.0021 ppm
Concentration per Run 2	-0.0010 ppm	0.0000 ppm	0.0022 ppm	0.0003 ppm	-0.0046 ppm	-0.0245 ppm	-0.0045 ppm
Concentration per Run 3	-0.0010 ppm	-0.0001 ppm	0.0021 ppm	0.0005 ppm	-0.0050 ppm	-0.0043 ppm	-0.0040 ppm
Recovery Percentage 1	-24.916 %	-0.017 %	23.398 %	2.264 %	-9.041 %	-0.277 %	-35.212 %
Concentration RSD	2.9 %	4,226.3 %	17.1 %	152.4 %	12.3 %	237.2 %	36.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0030 ppm	0.0030 ppm	-0.0001 ppm	0.0010 ppm	0.0006 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 1	-0.0013 ppm	0.0025 ppm	0.0003 ppm	-0.0050 ppm	0.0006 ppm	0.0001 ppm	0.0040 ppm
Concentration per Run 2	-0.0045 ppm	0.0033 ppm	-0.0003 ppm	-0.0004 ppm	0.0003 ppm	0.0014 ppm	0.0061 ppm
Concentration per Run 3	-0.0033 ppm	0.0033 ppm	-0.0003 ppm	0.0082 ppm	0.0010 ppm	-0.0016 ppm	0.0047 ppm
Recovery Percentage 1	-3.035 %	30.337 %	-0.177 %	0.049 %	2.565 %	-0.183 %	9.855 %
Concentration RSD	52.7 %	15.2 %	401.7 %	689.9 %	49.3 %	8,165.2 %	21.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0046 ppm	0.0140 ppm	-0.0008 ppm	0.0002 ppm	0.0057 ppm	-0.0029 ppm	0.0020 ppm
Concentration per Run 1	0.0063 ppm	0.0149 ppm	-0.0014 ppm	0.0001 ppm	0.0061 ppm	-0.0029 ppm	0.0019 ppm
Concentration per Run 2	0.0038 ppm	0.0130 ppm	-0.0006 ppm	0.0002 ppm	0.0054 ppm	-0.0041 ppm	0.0021 ppm
Concentration per Run 3	0.0037 ppm	0.0141 ppm	-0.0005 ppm	0.0002 ppm	0.0055 ppm	-0.0016 ppm	0.0019 ppm
Recovery Percentage 1	45.895 %	2.809 %	-1.675 %	1.588 %	56.773 %	-14.414 %	19.655 %
Concentration RSD	31.8 %	6.8 %	59.9 %	38.2 %	6.5 %	43.7 %	5.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0007 ppm	100.5804 %	90.4753 %	96.5643 %	101.4513 %	93.7732 %	94.0261 %
Concentration per Run 1	-0.0009 ppm	100.3829 %	90.4453 %	96.6437 %	99.7151 %	93.4661 %	93.9920 %
Concentration per Run 2	-0.0006 ppm	100.5410 %	90.4527 %	96.2915 %	101.2232 %	93.7610 %	93.9612 %
Concentration per Run 3	-0.0006 ppm	100.8174 %	90.5279 %	96.7578 %	103.4157 %	94.0924 %	94.1250 %
Recovery Percentage 1	-14.338 %						
Concentration RSD	21.5 %	0.2 %	0.1 %	0.3 %	1.8 %	0.3 %	0.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR Check
Analysis started at: 9/24/2024 10:50:57 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0027 ppm	0.1293 ppm	20.8003 ppm	23.8130 [SIC 20]	18.3446 ppm	4.7111 ppm	0.0343 ppm
Concentration per Run 1	0.0025 ppm	0.1123 ppm	20.8033 ppm	23.8166 ppm	18.4500 ppm	4.7105 ppm	0.0319 ppm
Concentration per Run 2	0.0026 ppm	0.1368 ppm	20.8118 ppm	23.8327 ppm	18.3687 ppm	4.7633 ppm	0.0339 ppm
Concentration per Run 3	0.0030 ppm	0.1386 ppm	20.7858 ppm	23.7896 ppm	18.2149 ppm	4.6593 ppm	0.0370 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.001 %	119.065 %	91.723 %	94.221 %	0.000 %
Concentration RSD	9.8 %	11.4 %	0.1 %	0.1 %	0.7 %	1.1 %	7.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.9171 ppm	4.9209 ppm	-0.0012 ppm	19.9107 ppm	0.0205 ppm	419.5183 ppm	17.3239 ppm
Concentration per Run 1	4.9137 ppm	4.9190 ppm	-0.0014 ppm	20.0410 ppm	0.0196 ppm	424.9133 ppm	17.4494 ppm
Concentration per Run 2	4.9247 ppm	4.9269 ppm	-0.0012 ppm	19.7256 ppm	0.0219 ppm	419.2720 ppm	17.3452 ppm
Concentration per Run 3	4.9130 ppm	4.9168 ppm	-0.0010 ppm	19.9654 ppm	0.0200 ppm	414.3697 ppm	17.1771 ppm
Recovery Percentage 1	98.343 %	98.418 %	0.000 %	99.553 %	0.000 %	83.904 %	86.620 %
Concentration RSD	0.1 %	0.1 %	15.0 %	0.8 %	6.0 %	1.3 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0391 ppm	0.0007 ppm	5.2072 [SIC 20]	416.2258 [SIC 500]	9.5038 ppm	47.1534 ppm	5.1125 ppm
Concentration per Run 1	-0.0353 ppm	0.0009 ppm	5.1746 ppm	416.7054 ppm	9.5025 ppm	47.1674 ppm	5.1091 ppm
Concentration per Run 2	-0.0406 ppm	0.0005 ppm	5.2168 ppm	418.3185 ppm	9.5168 ppm	47.2206 ppm	5.1151 ppm
Concentration per Run 3	-0.0413 ppm	0.0007 ppm	5.2301 ppm	413.6534 ppm	9.4921 ppm	47.0721 ppm	5.1132 ppm
Recovery Percentage 1	0.000 %	0.000 %	104.143 %	83.245 %	95.038 %	94.307 %	102.249 %
Concentration RSD	8.4 %	25.7 %	0.6 %	0.6 %	0.1 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	4.8229 ppm	21.4929 ppm	9.3003 ppm	4.5488 ppm	0.0055 ppm	4.5038 ppm	-0.0023 ppm
Concentration per Run 1	4.8215 ppm	21.4827 ppm	9.3016 ppm	4.5715 ppm	0.0056 ppm	4.4998 ppm	-0.0023 ppm
Concentration per Run 2	4.8264 ppm	21.5138 ppm	9.3170 ppm	4.5660 ppm	0.0055 ppm	4.5067 ppm	-0.0026 ppm
Concentration per Run 3	4.8208 ppm	21.4824 ppm	9.2824 ppm	4.5088 ppm	0.0055 ppm	4.5048 ppm	-0.0021 ppm
Recovery Percentage 1	96.458 %	107.465 %	93.003 %	90.975 %	0.000 %	90.075 %	0.000 %
Concentration RSD	0.1 %	0.1 %	0.2 %	0.8 %	0.9 %	0.1 %	10.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	19.6711 ppm	94.6688 %	86.7843 %	78.9861 %	100.4655 %	91.0039 %	90.3506 %
Concentration per Run 1	19.6680 ppm	94.7252 %	85.8894 %	78.9403 %	101.0198 %	91.0852 %	89.4207 %
Concentration per Run 2	19.7077 ppm	94.1232 %	88.1466 %	78.5673 %	100.0550 %	90.5676 %	91.6526 %
Concentration per Run 3	19.6378 ppm	95.1581 %	86.3170 %	79.4506 %	100.3217 %	91.3588 %	89.9784 %
Recovery Percentage 1	98.356 %						
Concentration RSD	0.2 %	0.5 %	1.4 %	0.6 %	0.5 %	0.4 %	1.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 200 K Pass
Analysis started at: 9/24/2024 11:05:28 AM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0024 ppm	0.0032 ppm	0.0115 ppm	0.0004 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 1	-0.0004 ppm	-0.0048 ppm	0.0046 ppm	0.0125 ppm	0.0004 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	0.0004 ppm	-0.0067 ppm	0.0027 ppm	0.0112 ppm	0.0003 ppm	0.0001 ppm	0.0044 ppm
Concentration per Run 3	0.0004 ppm	0.0044 ppm	0.0022 ppm	0.0106 ppm	0.0005 ppm	0.0001 ppm	0.0049 ppm
Concentration RSD	323.1 %	248.2 %	40.4 %	8.2 %	24.0 %	188.9 %	62.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	-0.0005 ppm	182.5306 ppm	-0.0026 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0006 ppm	0.0018 ppm	183.0270 ppm	-0.0043 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm	-0.0021 ppm	182.7976 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0007 ppm	-0.0013 ppm	181.7670 ppm	-0.0032 ppm
Concentration RSD	2,041.2 %	239.3 %	485.8 %	19.3 %	388.3 %	0.4 %	76.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0017 ppm	0.0001 ppm	0.0019 ppm	0.0194 ppm	-0.0002 ppm	0.0003 ppm	0.0023 ppm
Concentration per Run 1	0.0019 ppm	-0.0001 ppm	0.0023 ppm	0.0286 ppm	-0.0004 ppm	0.0007 ppm	0.0035 ppm
Concentration per Run 2	0.0023 ppm	0.0002 ppm	0.0018 ppm	0.0188 ppm	-0.0006 ppm	0.0004 ppm	0.0020 ppm
Concentration per Run 3	0.0008 ppm	0.0001 ppm	0.0017 ppm	0.0107 ppm	0.0004 ppm	-0.0004 ppm	0.0015 ppm
Concentration RSD	46.2 %	225.9 %	17.2 %	46.4 %	241.3 %	221.2 %	42.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	0.0033 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0018 ppm	0.0007 ppm
Concentration per Run 1	0.0016 ppm	0.0034 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0024 ppm	0.0007 ppm
Concentration per Run 2	-0.0002 ppm	0.0030 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0020 ppm	0.0010 ppm
Concentration per Run 3	0.0016 ppm	0.0036 ppm	-0.0005 ppm	0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0004 ppm
Concentration RSD	106.3 %	8.2 %	146.6 %	160.5 %	134.4 %	46.6 %	45.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	97.3881 %	93.3024 %	94.5830 %	97.0457 %	95.2985 %	95.9181 %
Concentration per Run 1	0.0004 ppm	97.5385 %	93.8416 %	94.2381 %	95.8632 %	94.6930 %	96.4883 %
Concentration per Run 2	0.0003 ppm	95.9989 %	93.4197 %	95.0218 %	95.9569 %	95.9883 %	96.0149 %
Concentration per Run 3	0.0003 ppm	98.6270 %	92.6460 %	94.4890 %	99.3171 %	95.2143 %	95.2510 %
Concentration RSD	16.5 %	1.4 %	0.6 %	0.4 %	2.0 %	0.7 %	0.7 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 200 Na Pass
Analysis started at: 9/24/2024 11:11:45 AM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0002 ppm	0.0016 ppm	0.0060 ppm	0.0001 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0018 ppm	0.0059 ppm	0.0000 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run 2	-0.0005 ppm	-0.0006 ppm	0.0012 ppm	0.0058 ppm	0.0000 ppm	0.0000 ppm	0.0081 ppm
Concentration per Run 3	-0.0006 ppm	0.0010 ppm	0.0019 ppm	0.0064 ppm	0.0002 ppm	0.0000 ppm	0.0041 ppm
Concentration RSD	95.6 %	467.4 %	23.0 %	5.1 %	189.2 %	156.3 %	36.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.4941 ppm	-0.0027 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	-0.0017 ppm	0.6415 ppm	-0.0030 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.4694 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0015 ppm	0.3714 ppm	-0.0028 ppm
Concentration RSD	133.9 %	152.1 %	31.6 %	56.8 %	14,441.1 %	27.7 %	10.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0014 ppm	0.0001 ppm	0.0011 ppm	196.5889 ppm	-0.0004 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 1	0.0030 ppm	0.0005 ppm	0.0011 ppm	203.4945 ppm	-0.0002 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 2	0.0004 ppm	-0.0001 ppm	0.0012 ppm	194.6466 ppm	-0.0004 ppm	-0.0005 ppm	0.0023 ppm
Concentration per Run 3	0.0008 ppm	-0.0001 ppm	0.0010 ppm	191.6255 ppm	-0.0005 ppm	-0.0011 ppm	0.0016 ppm
Concentration RSD	99.4 %	397.4 %	11.4 %	3.1 %	30.5 %	173.1 %	134.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	0.0040 ppm	-0.0004 ppm	-0.0001 ppm	-0.0002 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 1	-0.0004 ppm	0.0043 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0015 ppm	0.0006 ppm
Concentration per Run 2	-0.0007 ppm	0.0037 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0016 ppm	0.0040 ppm	-0.0008 ppm	0.0000 ppm	-0.0004 ppm	0.0020 ppm	0.0000 ppm
Concentration RSD	916.4 %	7.9 %	103.0 %	202.0 %	158.6 %	90.4 %	122.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	95.7075 %	91.3182 %	93.8118 %	93.8634 %	93.6559 %	93.8853 %
Concentration per Run 1	0.0003 ppm	95.6506 %	92.2020 %	94.3420 %	91.3510 %	93.7382 %	94.6948 %
Concentration per Run 2	0.0003 ppm	95.9197 %	91.1931 %	93.5473 %	94.1307 %	93.4958 %	93.6782 %
Concentration per Run 3	0.0002 ppm	95.5522 %	90.5594 %	93.5461 %	96.1086 %	93.7338 %	93.2828 %
Concentration RSD	22.4 %	0.2 %	0.9 %	0.5 %	2.5 %	0.1 %	0.8 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 20 B Pass
Analysis started at: 9/24/2024 11:24:31 AM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0011 ppm	0.0014 ppm	18.8013 ppm	0.0001 ppm	0.0000 ppm	0.0064 ppm
Concentration per Run 1	0.0004 ppm	-0.0052 ppm	0.0017 ppm	18.8705 ppm	0.0000 ppm	0.0000 ppm	0.0093 ppm
Concentration per Run 2	0.0000 ppm	-0.0019 ppm	0.0013 ppm	18.7788 ppm	0.0001 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 3	0.0006 ppm	0.0104 ppm	0.0013 ppm	18.7547 ppm	0.0002 ppm	0.0000 ppm	0.0050 ppm
Concentration RSD	101.4 %	747.9 %	16.6 %	0.3 %	71.0 %	125.9 %	39.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0001 ppm	0.0009 ppm	0.0097 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0006 ppm	0.0406 ppm	0.0022 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	0.0119 ppm	-0.0025 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0022 ppm	-0.0233 ppm	-0.0009 ppm
Concentration RSD	995.7 %	28.5 %	28.6 %	61.1 %	124.4 %	329.2 %	564.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0021 ppm	0.0001 ppm	0.0005 ppm	0.0986 ppm	0.0004 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 1	0.0022 ppm	0.0000 ppm	0.0004 ppm	0.0956 ppm	0.0006 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 2	0.0026 ppm	-0.0001 ppm	0.0005 ppm	0.1148 ppm	0.0002 ppm	0.0005 ppm	0.0010 ppm
Concentration per Run 3	0.0017 ppm	0.0003 ppm	0.0005 ppm	0.0854 ppm	0.0002 ppm	0.0005 ppm	0.0002 ppm
Concentration RSD	20.2 %	320.6 %	7.3 %	15.1 %	65.4 %	88.8 %	59.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0008 ppm	0.0032 ppm	-0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	0.0009 ppm	0.0025 ppm	-0.0009 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	-0.0021 ppm	0.0033 ppm	-0.0003 ppm	0.0002 ppm	0.0004 ppm	0.0019 ppm	0.0006 ppm
Concentration per Run 3	-0.0011 ppm	0.0037 ppm	0.0004 ppm	0.0002 ppm	-0.0005 ppm	0.0013 ppm	0.0002 ppm
Concentration RSD	191.2 %	20.6 %	245.6 %	28.4 %	9,011.9 %	66.1 %	116.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	102.0617 %	99.4966 %	100.6635 %	100.8462 %	102.1692 %	100.8321 %
Concentration per Run 1	0.0005 ppm	100.3359 %	99.6723 %	100.3693 %	98.1622 %	101.5227 %	100.9321 %
Concentration per Run 2	0.0005 ppm	102.9060 %	99.7473 %	101.1747 %	101.7148 %	102.7229 %	101.0043 %
Concentration per Run 3	0.0006 ppm	102.9431 %	99.0702 %	100.4464 %	102.6615 %	102.2621 %	100.5598 %
Concentration RSD	11.5 %	1.5 %	0.4 %	0.4 %	2.4 %	0.6 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 11:31:27 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5456 ppm	0.4983 ppm	0.5184 ppm	0.5448 ppm	0.4841 ppm	0.4957 ppm	0.4895 ppm
Concentration per Run 1	0.5460 ppm	0.4765 ppm	0.5179 ppm	0.5451 ppm	0.4634 ppm	0.4740 ppm	0.4618 ppm
Concentration per Run 2	0.5457 ppm	0.4945 ppm	0.5184 ppm	0.5468 ppm	0.4900 ppm	0.5024 ppm	0.4993 ppm
Concentration per Run 3	0.5452 ppm	0.5239 ppm	0.5188 ppm	0.5426 ppm	0.4988 ppm	0.5107 ppm	0.5074 ppm
Recovery Percentage 1	109.129 %	99.655 %	103.672 %	108.966 %	96.815 %	99.140 %	97.898 %
Concentration RSD	0.1 %	4.8 %	0.1 %	0.4 %	3.8 %	3.9 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5263 ppm	0.5372 ppm	0.5371 ppm	0.5272 ppm	0.5129 ppm	5.1221 ppm	0.4952 ppm
Concentration per Run 1	0.5238 ppm	0.5345 ppm	0.5378 ppm	0.5277 ppm	0.4886 ppm	4.8873 ppm	0.4731 ppm
Concentration per Run 2	0.5280 ppm	0.5390 ppm	0.5375 ppm	0.5277 ppm	0.5172 ppm	5.2126 ppm	0.5035 ppm
Concentration per Run 3	0.5272 ppm	0.5382 ppm	0.5359 ppm	0.5262 ppm	0.5328 ppm	5.2664 ppm	0.5090 ppm
Recovery Percentage 1	105.268 %	107.445 %	107.415 %	105.438 %	102.570 %	102.442 %	99.035 %
Concentration RSD	0.4 %	0.4 %	0.2 %	0.2 %	4.4 %	4.0 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5376 ppm	0.4916 ppm	0.5281 ppm	10.6224 ppm	0.5357 ppm	0.5336 ppm	0.5338 ppm
Concentration per Run 1	0.5385 ppm	0.4694 ppm	0.5205 ppm	10.3123 ppm	0.5335 ppm	0.5326 ppm	0.5329 ppm
Concentration per Run 2	0.5363 ppm	0.4980 ppm	0.5302 ppm	10.7104 ppm	0.5372 ppm	0.5346 ppm	0.5346 ppm
Concentration per Run 3	0.5381 ppm	0.5074 ppm	0.5337 ppm	10.8445 ppm	0.5364 ppm	0.5335 ppm	0.5338 ppm
Recovery Percentage 1	107.525 %	98.318 %	105.628 %	106.224 %	107.141 %	106.711 %	106.750 %
Concentration RSD	0.2 %	4.0 %	1.3 %	2.6 %	0.4 %	0.2 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5198 ppm	5.9748 ppm	0.5208 ppm	0.4864 ppm	0.5385 ppm	0.5348 ppm	0.5261 ppm
Concentration per Run 1	0.5171 ppm	5.9489 ppm	0.5176 ppm	0.4649 ppm	0.5381 ppm	0.5312 ppm	0.5253 ppm
Concentration per Run 2	0.5234 ppm	5.9942 ppm	0.5229 ppm	0.4936 ppm	0.5392 ppm	0.5381 ppm	0.5270 ppm
Concentration per Run 3	0.5188 ppm	5.9814 ppm	0.5220 ppm	0.5006 ppm	0.5381 ppm	0.5350 ppm	0.5259 ppm
Recovery Percentage 1	103.956 %	113.806 %	104.166 %	97.276 %	107.691 %	106.958 %	105.218 %
Concentration RSD	0.6 %	0.4 %	0.5 %	3.9 %	0.1 %	0.6 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5328 ppm	100.0804 %	95.6921 %	97.4529 %	104.4312 %	100.1917 %	99.1915 %
Concentration per Run 1	0.5298 ppm	103.8960 %	96.1420 %	98.0393 %	106.8595 %	100.6837 %	99.5498 %
Concentration per Run 2	0.5346 ppm	99.2285 %	95.2842 %	97.2264 %	104.1277 %	99.8825 %	98.7342 %
Concentration per Run 3	0.5340 ppm	97.1166 %	95.6500 %	97.0930 %	102.3065 %	100.0089 %	99.2906 %
Recovery Percentage 1	106.562 %						
Concentration RSD	0.5 %	3.5 %	0.4 %	0.5 %	2.2 %	0.4 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 11:37:29 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0055 ppm	-0.0007 ppm	0.0116 ppm	0.0004 ppm	0.0002 ppm	-0.0030 ppm
Concentration per Run 1	0.0001 ppm	-0.0081 ppm	-0.0016 ppm	0.0124 ppm	0.0009 ppm	0.0004 ppm	-0.0024 ppm
Concentration per Run 2	0.0003 ppm	-0.0107 ppm	-0.0013 ppm	0.0114 ppm	0.0002 ppm	0.0002 ppm	-0.0028 ppm
Concentration per Run 3	-0.0001 ppm	0.0022 ppm	0.0009 ppm	0.0111 ppm	0.0001 ppm	0.0001 ppm	-0.0039 ppm
Recovery Percentage 1	1.403 %	-5.531 %	-13.058 %	38.814 %	3.716 %	4.389 %	-3.029 %
Concentration RSD	164.3 %	124.1 %	209.4 %	5.8 %	116.4 %	61.8 %	26.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	-0.0127 ppm	-0.0017 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0004 ppm	-0.0053 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0002 ppm	-0.0036 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0006 ppm	-0.0327 ppm	-0.0004 ppm
Recovery Percentage 1	-0.364 %	-0.714 %	2.296 %	1.276 %	0.371 %	-0.509 %	-16.602 %
Concentration RSD	338.4 %	56.3 %	120.0 %	135.2 %	376.4 %	137.2 %	105.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0019 ppm	0.0071 ppm	0.0001 ppm	0.0003 ppm	0.0017 ppm
Concentration per Run 1	0.0006 ppm	0.0002 ppm	0.0024 ppm	0.0115 ppm	0.0001 ppm	-0.0002 ppm	0.0021 ppm
Concentration per Run 2	-0.0012 ppm	0.0003 ppm	0.0018 ppm	0.0148 ppm	0.0003 ppm	0.0003 ppm	0.0023 ppm
Concentration per Run 3	0.0004 ppm	0.0002 ppm	0.0015 ppm	-0.0050 ppm	0.0001 ppm	0.0009 ppm	0.0006 ppm
Recovery Percentage 1	-0.045 %	2.390 %	3.834 %	0.357 %	0.503 %	3.309 %	3.389 %
Concentration RSD	2,213.5 %	21.8 %	23.0 %	148.7 %	90.9 %	157.7 %	55.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0006 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0013 ppm	0.0002 ppm
Concentration per Run 1	0.0018 ppm	0.0010 ppm	-0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 2	-0.0003 ppm	0.0005 ppm	-0.0003 ppm	0.0003 ppm	0.0001 ppm	0.0015 ppm	-0.0001 ppm
Concentration per Run 3	0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0003 ppm
Recovery Percentage 1	6.984 %	0.128 %	-0.212 %	3.177 %	2.461 %	6.680 %	1.604 %
Concentration RSD	151.9 %	47.8 %	184.7 %	50.9 %	75.1 %	17.6 %	141.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	102.1195 %	97.3885 %	98.9122 %	98.4848 %	99.9368 %	98.0323 %
Concentration per Run 1	0.0000 ppm	99.8463 %	97.5066 %	99.4215 %	94.5645 %	100.2901 %	97.9139 %
Concentration per Run 2	-0.0001 ppm	103.5533 %	96.9655 %	98.5132 %	99.6283 %	99.4467 %	97.7153 %
Concentration per Run 3	-0.0002 ppm	102.9590 %	97.6935 %	98.8020 %	101.2616 %	100.0737 %	98.4679 %
Recovery Percentage 1	-1.975 %						
Concentration RSD	60.1 %	1.9 %	0.4 %	0.5 %	3.5 %	0.4 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 11:45:43 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5106 ppm	0.4778 ppm	0.4928 ppm	0.4959 ppm	0.4765 ppm	0.4906 ppm	0.4833 ppm
Concentration per Run 1	0.5115 ppm	0.4842 ppm	0.4953 ppm	0.4982 ppm	0.4911 ppm	0.5054 ppm	0.4971 ppm
Concentration per Run 2	0.5108 ppm	0.4694 ppm	0.4922 ppm	0.4969 ppm	0.4706 ppm	0.4849 ppm	0.4838 ppm
Concentration per Run 3	0.5094 ppm	0.4800 ppm	0.4909 ppm	0.4925 ppm	0.4677 ppm	0.4814 ppm	0.4691 ppm
Recovery Percentage 1	102.116 %	95.569 %	98.557 %	99.177 %	95.293 %	98.110 %	96.662 %
Concentration RSD	0.2 %	1.6 %	0.5 %	0.6 %	2.7 %	2.6 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4995 ppm	0.5101 ppm	0.5026 ppm	0.4974 ppm	0.4931 ppm	5.0943 ppm	0.4811 ppm
Concentration per Run 1	0.5022 ppm	0.5129 ppm	0.5050 ppm	0.4981 ppm	0.5054 ppm	5.2520 ppm	0.4959 ppm
Concentration per Run 2	0.4999 ppm	0.5109 ppm	0.5018 ppm	0.4980 ppm	0.4890 ppm	5.0638 ppm	0.4779 ppm
Concentration per Run 3	0.4962 ppm	0.5066 ppm	0.5010 ppm	0.4962 ppm	0.4849 ppm	4.9670 ppm	0.4697 ppm
Recovery Percentage 1	99.891 %	102.029 %	100.519 %	99.489 %	98.620 %	101.885 %	96.229 %
Concentration RSD	0.6 %	0.6 %	0.4 %	0.2 %	2.2 %	2.8 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4997 ppm	0.4868 ppm	0.5005 ppm	9.3127 ppm	0.5081 ppm	0.5065 ppm	0.5064 ppm
Concentration per Run 1	0.5007 ppm	0.5017 ppm	0.4998 ppm	9.1014 ppm	0.5106 ppm	0.5082 ppm	0.5066 ppm
Concentration per Run 2	0.4997 ppm	0.4810 ppm	0.5008 ppm	9.3362 ppm	0.5085 ppm	0.5063 ppm	0.5092 ppm
Concentration per Run 3	0.4987 ppm	0.4778 ppm	0.5009 ppm	9.5005 ppm	0.5052 ppm	0.5049 ppm	0.5035 ppm
Recovery Percentage 1	99.938 %	97.367 %	100.101 %	93.127 %	101.622 %	101.300 %	101.288 %
Concentration RSD	0.2 %	2.7 %	0.1 %	2.2 %	0.5 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4952 ppm	5.5262 ppm	0.4814 ppm	0.4731 ppm	0.5051 ppm	0.5068 ppm	0.4950 ppm
Concentration per Run 1	0.4987 ppm	5.5494 ppm	0.4839 ppm	0.4878 ppm	0.5059 ppm	0.5082 ppm	0.4954 ppm
Concentration per Run 2	0.4970 ppm	5.5346 ppm	0.4818 ppm	0.4685 ppm	0.5057 ppm	0.5091 ppm	0.4950 ppm
Concentration per Run 3	0.4900 ppm	5.4946 ppm	0.4784 ppm	0.4631 ppm	0.5036 ppm	0.5031 ppm	0.4946 ppm
Recovery Percentage 1	99.049 %	105.261 %	96.274 %	94.625 %	101.012 %	101.365 %	98.997 %
Concentration RSD	0.9 %	0.5 %	0.6 %	2.7 %	0.3 %	0.6 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5052 ppm	97.5619 %	96.0799 %	97.9099 %	114.8060 %	101.0161 %	101.3963 %
Concentration per Run 1	0.5078 ppm	95.0888 %	95.7431 %	97.6492 %	118.0891 %	100.6374 %	101.5453 %
Concentration per Run 2	0.5056 ppm	98.5503 %	96.2720 %	97.8043 %	114.4453 %	100.9800 %	101.4815 %
Concentration per Run 3	0.5021 ppm	99.0466 %	96.2245 %	98.2762 %	111.8836 %	101.4310 %	101.1623 %
Recovery Percentage 1	101.037 %						
Concentration RSD	0.6 %	2.2 %	0.3 %	0.3 %	2.7 %	0.4 %	0.2 %

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 11:51:46 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0014 ppm	-0.0002 ppm	0.0042 ppm	0.0000 ppm	0.0001 ppm	-0.0030 ppm
Concentration per Run 1	-0.0003 ppm	0.0055 ppm	-0.0010 ppm	0.0045 ppm	-0.0001 ppm	0.0000 ppm	-0.0040 ppm
Concentration per Run 2	-0.0005 ppm	0.0011 ppm	0.0007 ppm	0.0046 ppm	0.0000 ppm	0.0001 ppm	-0.0034 ppm
Concentration per Run 3	0.0000 ppm	-0.0024 ppm	-0.0005 ppm	0.0036 ppm	0.0001 ppm	0.0001 ppm	-0.0016 ppm
Recovery Percentage 1	-3.495 %	1.385 %	-4.981 %	14.055 %	-0.183 %	1.100 %	-3.008 %
Concentration RSD	104.9 %	286.6 %	357.5 %	13.5 %	468.6 %	30.6 %	42.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	-0.0283 ppm	-0.0020 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm	-0.0049 ppm	-0.0030 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0003 ppm	-0.0270 ppm	-0.0016 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	-0.0004 ppm	-0.0530 ppm	-0.0013 ppm
Recovery Percentage 1	-0.542 %	0.215 %	0.362 %	0.718 %	-0.573 %	-1.133 %	-19.736 %
Concentration RSD	126.0 %	441.4 %	961.8 %	404.7 %	46.6 %	85.1 %	44.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0003 ppm	0.0023 ppm	-0.0125 ppm	0.0000 ppm	-0.0003 ppm	0.0010 ppm
Concentration per Run 1	-0.0007 ppm	0.0004 ppm	0.0024 ppm	-0.0038 ppm	0.0002 ppm	0.0008 ppm	0.0013 ppm
Concentration per Run 2	-0.0006 ppm	0.0000 ppm	0.0025 ppm	-0.0077 ppm	-0.0001 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0020 ppm	-0.0260 ppm	-0.0002 ppm	-0.0008 ppm	0.0017 ppm
Recovery Percentage 1	-0.445 %	2.632 %	4.559 %	-0.625 %	-0.160 %	-2.695 %	2.013 %
Concentration RSD	84.0 %	101.0 %	12.4 %	94.9 %	528.0 %	331.0 %	90.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 1	0.0033 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0005 ppm
Concentration per Run 2	0.0016 ppm	-0.0006 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 3	-0.0004 ppm	0.0008 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0023 ppm	0.0004 ppm
Recovery Percentage 1	15.190 %	0.017 %	-0.784 %	0.653 %	0.938 %	5.825 %	5.285 %
Concentration RSD	119.3 %	807.6 %	78.4 %	133.1 %	197.5 %	91.2 %	25.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0002 ppm	102.1897 %	98.6759 %	99.6296 %	99.5180 %	101.1018 %	98.8760 %
Concentration per Run 1	-0.0002 ppm	101.3038 %	98.5676 %	99.5695 %	97.2566 %	100.7443 %	98.5904 %
Concentration per Run 2	-0.0002 ppm	102.2978 %	98.5757 %	99.6172 %	99.7915 %	101.1588 %	98.6618 %
Concentration per Run 3	-0.0002 ppm	102.9675 %	98.8843 %	99.7022 %	101.5061 %	101.4024 %	99.3758 %
Recovery Percentage 1	-3.541 %						
Concentration RSD	10.8 %	0.8 %	0.2 %	0.1 %	2.1 %	0.3 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-1 WG1975196
Analysis started at: 9/24/2024 12:03:35 PM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	-0.0065 ppm	-0.0004 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0084 ppm
Concentration per Run 1	0.0005 ppm	-0.0114 ppm	-0.0007 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0113 ppm
Concentration per Run 2	-0.0003 ppm	-0.0049 ppm	-0.0012 ppm	0.0021 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	-0.0030 ppm	0.0007 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0125 ppm
Recovery Percentage 1	1.031 %	-6.452 %	-7.560 %	6.596 %	0.899 %	-0.028 %	8.369 %
Concentration RSD	521.1 %	68.3 %	256.6 %	7.2 %	12.5 %	1,956.5 %	73.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	0.0004 ppm	-0.0029 ppm	-0.0361 ppm	-0.0021 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0005 ppm	-0.0035 ppm	-0.0324 ppm	-0.0018 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	0.0006 ppm	-0.0014 ppm	-0.0618 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0038 ppm	-0.0142 ppm	-0.0030 ppm
Recovery Percentage 1	0.147 %	-0.533 %	-5.880 %	3.639 %	-5.845 %	-1.445 %	-20.737 %
Concentration RSD	670.5 %	37.7 %	83.3 %	91.8 %	44.8 %	66.5 %	40.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0004 ppm	0.0002 ppm	0.0003 ppm	-0.0166 ppm	-0.0002 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 1	0.0011 ppm	0.0001 ppm	0.0006 ppm	-0.0331 ppm	-0.0002 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 2	0.0005 ppm	0.0002 ppm	0.0003 ppm	-0.0155 ppm	-0.0002 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	-0.0003 ppm	0.0002 ppm	0.0000 ppm	-0.0012 ppm	-0.0002 ppm	0.0000 ppm	0.0014 ppm
Recovery Percentage 1	0.431 %	1.667 %	0.617 %	-0.831 %	-0.865 %	3.074 %	1.670 %
Concentration RSD	156.8 %	59.9 %	102.5 %	96.2 %	21.7 %	109.0 %	63.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	0.0055 ppm	-0.0011 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0015 ppm	0.0050 ppm	-0.0006 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 2	0.0012 ppm	0.0059 ppm	-0.0013 ppm	0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0006 ppm	0.0057 ppm	-0.0014 ppm	0.0001 ppm	-0.0002 ppm	-0.0008 ppm	-0.0001 ppm
Recovery Percentage 1	10.750 %	1.104 %	-2.184 %	1.218 %	-0.726 %	0.646 %	1.717 %
Concentration RSD	44.9 %	8.9 %	42.7 %	28.1 %	380.0 %	595.3 %	138.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0002 ppm	100.9672 %	100.3772 %	100.9966 %	96.2671 %	101.0856 %	99.6335 %
Concentration per Run 1	0.0002 ppm	97.6105 %	100.1361 %	100.9621 %	91.1846 %	100.7255 %	99.1697 %
Concentration per Run 2	0.0002 ppm	102.6136 %	100.5446 %	101.2368 %	97.6699 %	101.4432 %	99.7917 %
Concentration per Run 3	0.0002 ppm	102.6774 %	100.4507 %	100.7910 %	99.9470 %	101.0881 %	99.9392 %
Recovery Percentage 1	3.487 %						
Concentration RSD	8.3 %	2.9 %	0.2 %	0.2 %	4.7 %	0.4 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-2 WG1975196
Analysis started at: 9/24/2024 12:09:53 PM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0518 ppm	1.7810 ppm	0.1172 ppm	0.9437 ppm	1.7553 ppm	0.0454 ppm	8.8849 ppm
Concentration per Run 1	0.0510 ppm	1.7653 ppm	0.1157 ppm	0.9453 ppm	1.7526 ppm	0.0454 ppm	8.8576 ppm
Concentration per Run 2	0.0522 ppm	1.7949 ppm	0.1177 ppm	0.9424 ppm	1.7598 ppm	0.0455 ppm	8.9159 ppm
Concentration per Run 3	0.0522 ppm	1.7827 ppm	0.1182 ppm	0.9433 ppm	1.7535 ppm	0.0455 ppm	8.8811 ppm
Concentration RSD	1.3 %	0.8 %	1.1 %	0.2 %	0.2 %	0.1 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0521 ppm	0.4837 ppm	0.1987 ppm	0.2491 ppm	0.8946 ppm	9.2537 ppm	-0.0027 ppm
Concentration per Run 1	0.0521 ppm	0.4841 ppm	0.1992 ppm	0.2495 ppm	0.8920 ppm	9.2301 ppm	-0.0021 ppm
Concentration per Run 2	0.0522 ppm	0.4836 ppm	0.1983 ppm	0.2493 ppm	0.8929 ppm	9.2534 ppm	-0.0046 ppm
Concentration per Run 3	0.0520 ppm	0.4833 ppm	0.1985 ppm	0.2486 ppm	0.8988 ppm	9.2774 ppm	-0.0014 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %	0.4 %	0.3 %	62.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.8710 ppm	0.4526 ppm	0.8784 ppm	10.3787 ppm	0.4867 ppm	0.5249 ppm	0.4755 ppm
Concentration per Run 1	9.9000 ppm	0.4507 ppm	0.8553 ppm	10.6038 ppm	0.4878 ppm	0.5261 ppm	0.4718 ppm
Concentration per Run 2	9.8673 ppm	0.4540 ppm	0.8797 ppm	10.3382 ppm	0.4860 ppm	0.5237 ppm	0.4768 ppm
Concentration per Run 3	9.8458 ppm	0.4532 ppm	0.9003 ppm	10.1941 ppm	0.4861 ppm	0.5250 ppm	0.4779 ppm
Concentration RSD	0.3 %	0.4 %	2.6 %	2.0 %	0.2 %	0.2 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1160 ppm	0.6963 ppm	0.9161 ppm	0.8513 ppm	0.9906 ppm	0.1171 ppm	0.4887 ppm
Concentration per Run 1	0.1169 ppm	0.6958 ppm	0.9149 ppm	0.8488 ppm	0.9922 ppm	0.1177 ppm	0.4892 ppm
Concentration per Run 2	0.1154 ppm	0.6966 ppm	0.9160 ppm	0.8529 ppm	0.9911 ppm	0.1167 ppm	0.4892 ppm
Concentration per Run 3	0.1157 ppm	0.6965 ppm	0.9173 ppm	0.8522 ppm	0.9885 ppm	0.1171 ppm	0.4877 ppm
Concentration RSD	0.7 %	0.1 %	0.1 %	0.3 %	0.2 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4902 ppm	102.4910 %	97.7618 %	98.3407 %	99.4915 %	100.9721 %	99.7506 %
Concentration per Run 1	0.4909 ppm	103.2604 %	97.4782 %	98.5629 %	97.6559 %	100.8762 %	99.1858 %
Concentration per Run 2	0.4899 ppm	101.9284 %	97.8008 %	98.3062 %	99.4800 %	101.1424 %	99.8564 %
Concentration per Run 3	0.4897 ppm	102.2842 %	98.0062 %	98.1530 %	101.3387 %	100.8977 %	100.2095 %
Concentration RSD	0.1 %	0.7 %	0.3 %	0.2 %	1.9 %	0.1 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-01 WG1975196
Analysis started at: 9/24/2024 12:16:00 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0032 ppm	-0.0002 ppm	0.0245 ppm	0.0198 ppm	0.0001 ppm	19.5602 ppm
Concentration per Run 1	0.0002 ppm	0.0102 ppm	0.0010 ppm	0.0245 ppm	0.0213 ppm	0.0001 ppm	19.7710 ppm
Concentration per Run 2	0.0002 ppm	0.0003 ppm	-0.0004 ppm	0.0247 ppm	0.0191 ppm	0.0001 ppm	19.3809 ppm
Concentration per Run 3	0.0000 ppm	-0.0007 ppm	-0.0012 ppm	0.0244 ppm	0.0189 ppm	0.0001 ppm	19.5288 ppm
Concentration RSD	63.7 %	184.8 %	574.8 %	0.5 %	6.9 %	46.2 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0027 ppm	0.0025 ppm	1.7151 ppm	-0.0036 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0029 ppm	0.0033 ppm	1.7486 ppm	-0.0024 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0025 ppm	0.0025 ppm	1.7195 ppm	-0.0049 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0008 ppm	0.0027 ppm	0.0017 ppm	1.6773 ppm	-0.0034 ppm
Concentration RSD	2,113.7 %	118.9 %	37.9 %	7.1 %	32.7 %	2.1 %	36.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.2667 ppm	0.0010 ppm	0.0069 ppm	13.7918 ppm	0.0002 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 1	6.2862 ppm	0.0013 ppm	0.0080 ppm	14.3208 ppm	0.0002 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 2	6.2657 ppm	0.0009 ppm	0.0067 ppm	13.6838 ppm	0.0003 ppm	0.0004 ppm	0.0041 ppm
Concentration per Run 3	6.2481 ppm	0.0007 ppm	0.0061 ppm	13.3707 ppm	0.0002 ppm	-0.0004 ppm	0.0009 ppm
Concentration RSD	0.3 %	30.1 %	14.0 %	3.5 %	20.2 %	26,004.3 %	62.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	4.0652 ppm	0.0014 ppm	0.0767 ppm	0.0010 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 1	0.0020 ppm	4.0818 ppm	0.0014 ppm	0.0778 ppm	0.0009 ppm	0.0029 ppm	0.0011 ppm
Concentration per Run 2	0.0005 ppm	4.0590 ppm	0.0016 ppm	0.0760 ppm	0.0011 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 3	0.0011 ppm	4.0548 ppm	0.0012 ppm	0.0762 ppm	0.0010 ppm	0.0014 ppm	0.0010 ppm
Concentration RSD	64.9 %	0.4 %	14.4 %	1.3 %	8.2 %	181.4 %	50.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0018 ppm	105.4771 %	99.5212 %	99.6199 %	97.8644 %	100.1760 %	99.0831 %
Concentration per Run 1	0.0019 ppm	104.1908 %	99.5798 %	99.6231 %	93.8963 %	99.7098 %	98.7013 %
Concentration per Run 2	0.0018 ppm	106.4998 %	99.2833 %	99.6949 %	98.7254 %	100.2833 %	98.9345 %
Concentration per Run 3	0.0018 ppm	105.7407 %	99.7005 %	99.5418 %	100.9715 %	100.5349 %	99.6135 %
Concentration RSD	2.0 %	1.1 %	0.2 %	0.1 %	3.7 %	0.4 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-02 WG1975196
Analysis started at: 9/24/2024 12:22:13 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0022 ppm	0.0002 ppm	0.0928 ppm	0.0127 ppm	0.0000 ppm	16.7242 ppm
Concentration per Run 1	0.0000 ppm	0.0072 ppm	-0.0013 ppm	0.0935 ppm	0.0131 ppm	0.0001 ppm	17.1527 ppm
Concentration per Run 2	-0.0002 ppm	-0.0004 ppm	-0.0001 ppm	0.0921 ppm	0.0123 ppm	0.0000 ppm	16.4910 ppm
Concentration per Run 3	0.0009 ppm	-0.0001 ppm	0.0020 ppm	0.0927 ppm	0.0126 ppm	0.0000 ppm	16.5287 ppm
Concentration RSD	281.4 %	192.8 %	802.7 %	0.8 %	3.1 %	126.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0009 ppm	0.0218 ppm	1.2679 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0012 ppm	0.0229 ppm	1.3060 ppm	-0.0029 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0006 ppm	0.0212 ppm	1.2193 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0008 ppm	0.0009 ppm	0.0215 ppm	1.2786 ppm	0.0023 ppm
Concentration RSD	196.3 %	178.8 %	9.5 %	27.7 %	4.1 %	3.5 %	453.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.9293 ppm	0.0025 ppm	0.0014 ppm	14.9152 ppm	0.0000 ppm	0.0006 ppm	0.0021 ppm
Concentration per Run 1	8.9512 ppm	0.0027 ppm	0.0016 ppm	15.6115 ppm	0.0001 ppm	0.0011 ppm	0.0026 ppm
Concentration per Run 2	8.9429 ppm	0.0026 ppm	0.0017 ppm	14.6966 ppm	-0.0001 ppm	0.0009 ppm	0.0019 ppm
Concentration per Run 3	8.8937 ppm	0.0023 ppm	0.0010 ppm	14.4374 ppm	0.0000 ppm	-0.0003 ppm	0.0019 ppm
Concentration RSD	0.3 %	8.0 %	26.5 %	4.1 %	818.6 %	138.4 %	17.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	10.0264 ppm	0.0000 ppm	0.0808 ppm	0.0004 ppm	0.0017 ppm	0.0014 ppm
Concentration per Run 1	0.0012 ppm	10.0620 ppm	0.0006 ppm	0.0826 ppm	0.0001 ppm	0.0015 ppm	0.0011 ppm
Concentration per Run 2	0.0013 ppm	10.0183 ppm	-0.0006 ppm	0.0799 ppm	0.0005 ppm	0.0014 ppm	0.0019 ppm
Concentration per Run 3	-0.0004 ppm	9.9990 ppm	-0.0001 ppm	0.0799 ppm	0.0005 ppm	0.0022 ppm	0.0012 ppm
Concentration RSD	137.5 %	0.3 %	2,208.7 %	1.9 %	54.1 %	26.5 %	30.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	103.1114 %	99.4447 %	99.9729 %	96.8916 %	100.0126 %	99.0104 %
Concentration per Run 1	0.0016 ppm	100.8174 %	100.0616 %	100.1984 %	92.6087 %	99.6963 %	99.3313 %
Concentration per Run 2	0.0016 ppm	104.9595 %	98.9176 %	99.9297 %	98.5852 %	99.9311 %	98.5123 %
Concentration per Run 3	0.0016 ppm	103.5573 %	99.3548 %	99.7905 %	99.4810 %	100.4103 %	99.1874 %
Concentration RSD	2.6 %	2.0 %	0.6 %	0.2 %	3.9 %	0.4 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-03 WG1975196
Analysis started at: 9/24/2024 12:28:24 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0048 ppm	-0.0002 ppm	0.0189 ppm	0.0220 ppm	0.0000 ppm	9.5975 ppm
Concentration per Run 1	0.0000 ppm	-0.0056 ppm	0.0008 ppm	0.0192 ppm	0.0219 ppm	0.0000 ppm	9.5332 ppm
Concentration per Run 2	-0.0001 ppm	0.0155 ppm	-0.0015 ppm	0.0186 ppm	0.0220 ppm	0.0000 ppm	9.6011 ppm
Concentration per Run 3	0.0000 ppm	0.0047 ppm	0.0001 ppm	0.0187 ppm	0.0222 ppm	-0.0001 ppm	9.6581 ppm
Concentration RSD	150.3 %	217.2 %	598.9 %	1.8 %	0.5 %	896.3 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0008 ppm	-0.0021 ppm	0.9294 ppm	-0.0024 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0012 ppm	-0.0009 ppm	0.9493 ppm	-0.0040 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0008 ppm	-0.0039 ppm	0.9168 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0005 ppm	-0.0016 ppm	0.9222 ppm	-0.0016 ppm
Concentration RSD	1,126.6 %	45.4 %	358.8 %	44.0 %	73.0 %	1.9 %	54.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.8923 ppm	0.0003 ppm	0.0007 ppm	14.5967 ppm	-0.0003 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 1	4.9368 ppm	0.0002 ppm	0.0007 ppm	14.9128 ppm	-0.0005 ppm	0.0004 ppm	0.0015 ppm
Concentration per Run 2	4.8739 ppm	0.0006 ppm	0.0006 ppm	14.5607 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	4.8662 ppm	0.0003 ppm	0.0008 ppm	14.3165 ppm	-0.0002 ppm	0.0005 ppm	0.0006 ppm
Concentration RSD	0.8 %	59.5 %	10.7 %	2.1 %	73.8 %	110.9 %	110.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	7.5624 ppm	-0.0004 ppm	0.0473 ppm	0.0004 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 1	0.0008 ppm	7.6184 ppm	-0.0006 ppm	0.0470 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 2	0.0013 ppm	7.5528 ppm	-0.0003 ppm	0.0474 ppm	0.0009 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 3	0.0006 ppm	7.5160 ppm	-0.0003 ppm	0.0476 ppm	0.0005 ppm	0.0030 ppm	0.0007 ppm
Concentration RSD	39.5 %	0.7 %	39.9 %	0.7 %	113.3 %	201.6 %	24.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0011 ppm	105.1759 %	101.0625 %	101.0685 %	98.5779 %	101.5132 %	100.6576 %
Concentration per Run 1	0.0011 ppm	105.6490 %	100.5427 %	100.8763 %	96.2848 %	100.9947 %	99.7982 %
Concentration per Run 2	0.0010 ppm	104.6838 %	101.0597 %	101.2361 %	98.7103 %	101.5079 %	100.7507 %
Concentration per Run 3	0.0011 ppm	105.1950 %	101.5849 %	101.0931 %	100.7385 %	102.0372 %	101.4239 %
Concentration RSD	5.8 %	0.5 %	0.5 %	0.2 %	2.3 %	0.5 %	0.8 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453250-01 WG1975196
Analysis started at: 9/24/2024 12:34:37 PM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.8145 ppm	0.0155 ppm	0.0820 ppm	0.0175 ppm	0.0000 ppm	8.7226 ppm
Concentration per Run 1	-0.0001 ppm	0.8119 ppm	0.0147 ppm	0.0826 ppm	0.0177 ppm	0.0001 ppm	8.7407 ppm
Concentration per Run 2	0.0001 ppm	0.8128 ppm	0.0169 ppm	0.0813 ppm	0.0172 ppm	0.0000 ppm	8.7572 ppm
Concentration per Run 3	0.0003 ppm	0.8188 ppm	0.0149 ppm	0.0821 ppm	0.0175 ppm	-0.0001 ppm	8.6701 ppm
Concentration RSD	272.7 %	0.5 %	7.7 %	0.8 %	1.5 %	1,677.1 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0007 ppm	-0.0008 ppm	0.0066 ppm	0.0164 ppm	73.8590 ppm	0.0415 ppm
Concentration per Run 1	-0.0001 ppm	0.0009 ppm	-0.0008 ppm	0.0067 ppm	0.0140 ppm	74.1726 ppm	0.0413 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	-0.0008 ppm	0.0068 ppm	0.0187 ppm	74.1576 ppm	0.0428 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	-0.0008 ppm	0.0064 ppm	0.0164 ppm	73.2468 ppm	0.0404 ppm
Concentration RSD	492.6 %	20.1 %	5.5 %	3.3 %	14.1 %	0.7 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.3394 ppm	0.0008 ppm	0.0439 ppm	164.2160 ppm	0.0733 ppm	0.0006 ppm	0.0061 ppm
Concentration per Run 1	5.3478 ppm	0.0010 ppm	0.0439 ppm	168.7358 ppm	0.0735 ppm	0.0013 ppm	0.0042 ppm
Concentration per Run 2	5.3399 ppm	0.0006 ppm	0.0437 ppm	164.6393 ppm	0.0730 ppm	0.0001 ppm	0.0072 ppm
Concentration per Run 3	5.3304 ppm	0.0008 ppm	0.0440 ppm	159.2729 ppm	0.0734 ppm	0.0005 ppm	0.0068 ppm
Concentration RSD	0.2 %	24.9 %	0.4 %	2.9 %	0.4 %	100.3 %	26.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0034 ppm	8.7754 ppm	0.0010 ppm	0.1861 ppm	0.0010 ppm	0.0015 ppm	0.0066 ppm
Concentration per Run 1	0.0002 ppm	8.8395 ppm	0.0009 ppm	0.1861 ppm	0.0005 ppm	0.0010 ppm	0.0069 ppm
Concentration per Run 2	0.0036 ppm	8.7345 ppm	0.0009 ppm	0.1871 ppm	0.0014 ppm	0.0014 ppm	0.0065 ppm
Concentration per Run 3	0.0065 ppm	8.7521 ppm	0.0012 ppm	0.1850 ppm	0.0011 ppm	0.0022 ppm	0.0065 ppm
Concentration RSD	92.3 %	0.6 %	18.6 %	0.6 %	45.7 %	40.8 %	4.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0021 ppm	101.6782 %	95.0381 %	96.1121 %	97.4712 %	94.8582 %	96.6518 %
Concentration per Run 1	0.0021 ppm	100.9558 %	94.7921 %	96.0715 %	94.3831 %	94.4393 %	96.0574 %
Concentration per Run 2	0.0021 ppm	101.2234 %	95.0878 %	96.2544 %	97.2604 %	95.1816 %	96.7616 %
Concentration per Run 3	0.0021 ppm	102.8554 %	95.2343 %	96.0105 %	100.7702 %	94.9536 %	97.1364 %
Concentration RSD	0.5 %	1.0 %	0.2 %	0.1 %	3.3 %	0.4 %	0.6 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-3 WG1975196
Analysis started at: 9/24/2024 12:40:50 PM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0523 ppm	2.7468 ppm	0.1433 ppm	1.0883 ppm	1.9295 ppm	0.0500 ppm	18.6359 ppm
Concentration per Run 1	0.0526 ppm	2.7630 ppm	0.1434 ppm	1.0897 ppm	1.9435 ppm	0.0503 ppm	18.7495 ppm
Concentration per Run 2	0.0518 ppm	2.7804 ppm	0.1430 ppm	1.0885 ppm	1.9593 ppm	0.0508 ppm	18.9223 ppm
Concentration per Run 3	0.0526 ppm	2.6969 ppm	0.1434 ppm	1.0869 ppm	1.8858 ppm	0.0490 ppm	18.2359 ppm
Concentration RSD	0.9 %	1.6 %	0.2 %	0.1 %	2.0 %	1.8 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0548 ppm	0.5103 ppm	0.2030 ppm	0.2658 ppm	0.9940 ppm	84.3278 ppm	0.0437 ppm
Concentration per Run 1	0.0549 ppm	0.5114 ppm	0.2026 ppm	0.2657 ppm	0.9946 ppm	85.0946 ppm	0.0456 ppm
Concentration per Run 2	0.0548 ppm	0.5102 ppm	0.2030 ppm	0.2663 ppm	1.0151 ppm	85.6142 ppm	0.0440 ppm
Concentration per Run 3	0.0547 ppm	0.5094 ppm	0.2035 ppm	0.2653 ppm	0.9724 ppm	82.2746 ppm	0.0415 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %	2.2 %	2.1 %	4.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	14.9460 ppm	0.4902 ppm	1.0000 ppm	170.4886 ppm	0.5800 ppm	0.5433 ppm	0.5302 ppm
Concentration per Run 1	14.9604 ppm	0.4933 ppm	0.9798 ppm	176.8691 ppm	0.5814 ppm	0.5441 ppm	0.5324 ppm
Concentration per Run 2	14.9381 ppm	0.4982 ppm	1.0016 ppm	172.1415 ppm	0.5800 ppm	0.5438 ppm	0.5267 ppm
Concentration per Run 3	14.9397 ppm	0.4790 ppm	1.0185 ppm	162.4553 ppm	0.5785 ppm	0.5419 ppm	0.5313 ppm
Concentration RSD	0.1 %	2.0 %	1.9 %	4.3 %	0.2 %	0.2 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1259 ppm	9.4229 ppm	0.9710 ppm	1.1134 ppm	1.0309 ppm	0.1179 ppm	0.5153 ppm
Concentration per Run 1	0.1226 ppm	9.4503 ppm	0.9728 ppm	1.1233 ppm	1.0305 ppm	0.1193 ppm	0.5162 ppm
Concentration per Run 2	0.1275 ppm	9.4241 ppm	0.9712 ppm	1.1296 ppm	1.0310 ppm	0.1181 ppm	0.5153 ppm
Concentration per Run 3	0.1278 ppm	9.3943 ppm	0.9690 ppm	1.0872 ppm	1.0311 ppm	0.1163 ppm	0.5144 ppm
Concentration RSD	2.3 %	0.3 %	0.2 %	2.1 %	0.0 %	1.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5269 ppm	98.0153 %	94.4758 %	95.1991 %	97.7071 %	95.2859 %	97.4895 %
Concentration per Run 1	0.5289 ppm	97.0235 %	94.3755 %	95.2362 %	93.9341 %	94.9045 %	97.2439 %
Concentration per Run 2	0.5267 ppm	96.5853 %	94.7286 %	95.0431 %	96.8574 %	95.2839 %	97.6641 %
Concentration per Run 3	0.5251 ppm	100.4370 %	94.3232 %	95.3179 %	102.3298 %	95.6695 %	97.5603 %
Concentration RSD	0.4 %	2.2 %	0.2 %	0.1 %	4.4 %	0.4 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-4 WG1975196
Analysis started at: 9/24/2024 12:47:02 PM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.7760 ppm	0.0150 ppm	0.0792 ppm	0.0170 ppm	0.0000 ppm	8.3003 ppm
Concentration per Run 1	-0.0001 ppm	0.7846 ppm	0.0153 ppm	0.0786 ppm	0.0172 ppm	0.0000 ppm	8.3530 ppm
Concentration per Run 2	-0.0005 ppm	0.7658 ppm	0.0149 ppm	0.0799 ppm	0.0169 ppm	0.0000 ppm	8.2559 ppm
Concentration per Run 3	0.0004 ppm	0.7775 ppm	0.0147 ppm	0.0790 ppm	0.0168 ppm	0.0000 ppm	8.2920 ppm
Concentration RSD	798.0 %	1.2 %	1.8 %	0.9 %	1.2 %	2,042.6 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0006 ppm	-0.0009 ppm	0.0063 ppm	0.0165 ppm	69.9156 ppm	0.0391 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	-0.0007 ppm	0.0060 ppm	0.0177 ppm	70.5519 ppm	0.0399 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	-0.0012 ppm	0.0063 ppm	0.0163 ppm	69.4415 ppm	0.0392 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	-0.0010 ppm	0.0066 ppm	0.0155 ppm	69.7532 ppm	0.0383 ppm
Concentration RSD	82.7 %	8.1 %	25.4 %	4.8 %	6.7 %	0.8 %	2.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.1238 ppm	0.0009 ppm	0.0478 ppm	154.0218 ppm	0.0697 ppm	0.0012 ppm	0.0054 ppm
Concentration per Run 1	5.0506 ppm	0.0012 ppm	0.0483 ppm	157.4929 ppm	0.0697 ppm	0.0001 ppm	0.0057 ppm
Concentration per Run 2	5.1693 ppm	0.0009 ppm	0.0479 ppm	153.2733 ppm	0.0700 ppm	0.0019 ppm	0.0047 ppm
Concentration per Run 3	5.1516 ppm	0.0007 ppm	0.0470 ppm	151.2991 ppm	0.0693 ppm	0.0015 ppm	0.0058 ppm
Concentration RSD	1.3 %	26.4 %	1.4 %	2.1 %	0.5 %	83.4 %	11.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0024 ppm	8.3508 ppm	0.0027 ppm	0.1771 ppm	0.0012 ppm	0.0008 ppm	0.0063 ppm
Concentration per Run 1	0.0000 ppm	8.3102 ppm	0.0024 ppm	0.1784 ppm	0.0009 ppm	-0.0002 ppm	0.0062 ppm
Concentration per Run 2	0.0049 ppm	8.4027 ppm	0.0029 ppm	0.1758 ppm	0.0011 ppm	0.0013 ppm	0.0062 ppm
Concentration per Run 3	0.0022 ppm	8.3396 ppm	0.0028 ppm	0.1770 ppm	0.0015 ppm	0.0012 ppm	0.0063 ppm
Concentration RSD	103.3 %	0.6 %	11.3 %	0.7 %	25.8 %	106.2 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	103.2645 %	96.5358 %	97.7981 %	100.0000 %	96.8309 %	98.1324 %
Concentration per Run 1	0.0014 ppm	102.6716 %	98.2925 %	98.6223 %	97.9747 %	97.0381 %	99.3389 %
Concentration per Run 2	0.0015 ppm	103.7412 %	95.3440 %	97.7870 %	100.3267 %	96.6503 %	97.2297 %
Concentration per Run 3	0.0015 ppm	103.3806 %	95.9711 %	96.9851 %	101.6985 %	96.8043 %	97.8285 %
Concentration RSD	3.2 %	0.5 %	1.6 %	0.8 %	1.9 %	0.2 %	1.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-5 WG1975196
Analysis started at: 9/24/2024 12:53:16 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0505 ppm	2.8428 ppm	0.1422 ppm	1.1167 ppm	1.9947 ppm	0.0516 ppm	19.2877 ppm
Concentration per Run 1	0.0505 ppm	2.9474 ppm	0.1417 ppm	1.1172 ppm	2.0486 ppm	0.0529 ppm	19.8300 ppm
Concentration per Run 2	0.0504 ppm	2.8938 ppm	0.1419 ppm	1.1182 ppm	2.0360 ppm	0.0527 ppm	19.6511 ppm
Concentration per Run 3	0.0505 ppm	2.6873 ppm	0.1428 ppm	1.1149 ppm	1.8995 ppm	0.0492 ppm	18.3820 ppm
Concentration RSD	0.1 %	4.8 %	0.4 %	0.2 %	4.1 %	4.1 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0550 ppm	0.5119 ppm	0.2056 ppm	0.2689 ppm	1.0389 ppm	86.0477 ppm	0.0424 ppm
Concentration per Run 1	0.0551 ppm	0.5124 ppm	0.2059 ppm	0.2693 ppm	1.0653 ppm	88.6578 ppm	0.0469 ppm
Concentration per Run 2	0.0551 ppm	0.5125 ppm	0.2052 ppm	0.2686 ppm	1.0604 ppm	87.7481 ppm	0.0414 ppm
Concentration per Run 3	0.0548 ppm	0.5108 ppm	0.2058 ppm	0.2688 ppm	0.9911 ppm	81.7373 ppm	0.0390 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.1 %	4.0 %	4.4 %	9.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.2598 ppm	0.5056 ppm	1.0181 ppm	177.0793 ppm	0.5818 ppm	0.5399 ppm	0.4978 ppm
Concentration per Run 1	15.2574 ppm	0.5192 ppm	0.9949 ppm	186.0072 ppm	0.5837 ppm	0.5413 ppm	0.4930 ppm
Concentration per Run 2	15.2713 ppm	0.5157 ppm	1.0212 ppm	179.8975 ppm	0.5820 ppm	0.5404 ppm	0.4981 ppm
Concentration per Run 3	15.2508 ppm	0.4819 ppm	1.0380 ppm	165.3333 ppm	0.5797 ppm	0.5380 ppm	0.5023 ppm
Concentration RSD	0.1 %	4.1 %	2.1 %	6.0 %	0.4 %	0.3 %	0.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1271 ppm	9.7771 ppm	1.0214 ppm	1.1715 ppm	1.0659 ppm	0.1191 ppm	0.5208 ppm
Concentration per Run 1	0.1264 ppm	9.8038 ppm	1.0219 ppm	1.2027 ppm	1.0664 ppm	0.1185 ppm	0.5197 ppm
Concentration per Run 2	0.1272 ppm	9.7821 ppm	1.0222 ppm	1.1960 ppm	1.0661 ppm	0.1208 ppm	0.5212 ppm
Concentration per Run 3	0.1277 ppm	9.7455 ppm	1.0200 ppm	1.1159 ppm	1.0653 ppm	0.1180 ppm	0.5214 ppm
Concentration RSD	0.5 %	0.3 %	0.1 %	4.1 %	0.1 %	1.3 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5295 ppm	95.8685 %	94.4200 %	95.7966 %	93.6202 %	95.8075 %	96.8919 %
Concentration per Run 1	0.5308 ppm	92.7394 %	94.5096 %	95.8351 %	88.7141 %	95.6321 %	96.8448 %
Concentration per Run 2	0.5301 ppm	93.9052 %	94.4326 %	95.5622 %	91.9950 %	95.5218 %	96.7881 %
Concentration per Run 3	0.5275 ppm	100.9609 %	94.3179 %	95.9924 %	100.1516 %	96.2687 %	97.0427 %
Concentration RSD	0.3 %	4.6 %	0.1 %	0.2 %	6.3 %	0.4 %	0.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975196-6D5 WG1975196
Analysis started at: 9/24/2024 12:59:18 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.1563 ppm	0.0046 ppm	0.0181 ppm	0.0046 ppm	0.0000 ppm	1.7279 ppm
Concentration per Run 1	0.0001 ppm	0.1542 ppm	0.0041 ppm	0.0180 ppm	0.0052 ppm	0.0001 ppm	1.7200 ppm
Concentration per Run 2	0.0002 ppm	0.1513 ppm	0.0041 ppm	0.0184 ppm	0.0046 ppm	0.0000 ppm	1.7341 ppm
Concentration per Run 3	0.0003 ppm	0.1635 ppm	0.0055 ppm	0.0180 ppm	0.0039 ppm	0.0000 ppm	1.7296 ppm
Concentration RSD	48.0 %	4.1 %	17.3 %	1.3 %	14.2 %	175.3 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0016 ppm	0.0053 ppm	14.8781 ppm	0.0075 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0015 ppm	0.0073 ppm	14.8725 ppm	0.0075 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0017 ppm	0.0062 ppm	14.8557 ppm	0.0075 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0016 ppm	0.0024 ppm	14.9061 ppm	0.0075 ppm
Concentration RSD	52.4 %	333.6 %	93.9 %	4.3 %	48.9 %	0.2 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.1040 ppm	0.0004 ppm	0.0157 ppm	33.0362 ppm	0.0142 ppm	-0.0001 ppm	0.0082 ppm
Concentration per Run 1	1.1011 ppm	0.0002 ppm	0.0166 ppm	33.5003 ppm	0.0142 ppm	-0.0002 ppm	0.0074 ppm
Concentration per Run 2	1.1073 ppm	0.0006 ppm	0.0158 ppm	33.1096 ppm	0.0143 ppm	0.0002 ppm	0.0088 ppm
Concentration per Run 3	1.1035 ppm	0.0005 ppm	0.0146 ppm	32.4986 ppm	0.0142 ppm	-0.0004 ppm	0.0083 ppm
Concentration RSD	0.3 %	54.0 %	6.3 %	1.5 %	0.6 %	289.0 %	8.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	1.7032 ppm	0.0025 ppm	0.0375 ppm	0.0007 ppm	0.0010 ppm	0.0017 ppm
Concentration per Run 1	-0.0007 ppm	1.7018 ppm	0.0028 ppm	0.0378 ppm	0.0006 ppm	0.0011 ppm	0.0020 ppm
Concentration per Run 2	-0.0011 ppm	1.7050 ppm	0.0019 ppm	0.0374 ppm	0.0007 ppm	0.0013 ppm	0.0015 ppm
Concentration per Run 3	0.0009 ppm	1.7027 ppm	0.0027 ppm	0.0372 ppm	0.0006 ppm	0.0005 ppm	0.0015 ppm
Concentration RSD	368.0 %	0.1 %	19.9 %	0.9 %	13.8 %	39.7 %	17.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	104.7059 %	97.5402 %	98.3150 %	102.0833 %	100.3239 %	99.5272 %
Concentration per Run 1	0.0009 ppm	104.4798 %	97.3771 %	98.7616 %	100.0943 %	100.3404 %	99.2836 %
Concentration per Run 2	0.0008 ppm	104.9865 %	97.5888 %	97.9574 %	102.1582 %	100.1457 %	99.4912 %
Concentration per Run 3	0.0008 ppm	104.6515 %	97.6546 %	98.2261 %	103.9973 %	100.4857 %	99.8067 %
Concentration RSD	4.5 %	0.2 %	0.1 %	0.4 %	1.9 %	0.2 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 1:05:31 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5254 ppm	0.5082 ppm	0.4999 ppm	0.4976 ppm	0.5071 ppm	0.5203 ppm	0.5178 ppm
Concentration per Run 1	0.5265 ppm	0.5109 ppm	0.4989 ppm	0.4949 ppm	0.5132 ppm	0.5269 ppm	0.5218 ppm
Concentration per Run 2	0.5248 ppm	0.5288 ppm	0.5011 ppm	0.4990 ppm	0.5206 ppm	0.5329 ppm	0.5313 ppm
Concentration per Run 3	0.5250 ppm	0.4848 ppm	0.4997 ppm	0.4989 ppm	0.4876 ppm	0.5012 ppm	0.5003 ppm
Recovery Percentage 1	105.086 %	101.632 %	99.976 %	99.523 %	101.424 %	104.068 %	103.558 %
Concentration RSD	0.2 %	4.4 %	0.2 %	0.5 %	3.4 %	3.2 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5043 ppm	0.5158 ppm	0.5200 ppm	0.5065 ppm	0.5248 ppm	5.4118 ppm	0.5102 ppm
Concentration per Run 1	0.5018 ppm	0.5130 ppm	0.5197 ppm	0.5076 ppm	0.5257 ppm	5.4879 ppm	0.5184 ppm
Concentration per Run 2	0.5052 ppm	0.5173 ppm	0.5202 ppm	0.5065 ppm	0.5413 ppm	5.5357 ppm	0.5215 ppm
Concentration per Run 3	0.5059 ppm	0.5170 ppm	0.5199 ppm	0.5056 ppm	0.5075 ppm	5.2119 ppm	0.4907 ppm
Recovery Percentage 1	100.869 %	103.154 %	103.990 %	101.308 %	104.969 %	108.237 %	102.043 %
Concentration RSD	0.4 %	0.5 %	0.0 %	0.2 %	3.2 %	3.2 %	3.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5127 ppm	0.5184 ppm	0.5091 ppm	11.2768 ppm	0.5123 ppm	0.5111 ppm	0.5159 ppm
Concentration per Run 1	0.5113 ppm	0.5238 ppm	0.5027 ppm	11.4109 ppm	0.5096 ppm	0.5087 ppm	0.5126 ppm
Concentration per Run 2	0.5137 ppm	0.5311 ppm	0.5108 ppm	11.4802 ppm	0.5139 ppm	0.5125 ppm	0.5176 ppm
Concentration per Run 3	0.5131 ppm	0.5003 ppm	0.5139 ppm	10.9394 ppm	0.5134 ppm	0.5120 ppm	0.5176 ppm
Recovery Percentage 1	102.544 %	103.681 %	101.829 %	112.768 %	102.457 %	102.218 %	103.186 %
Concentration RSD	0.2 %	3.1 %	1.1 %	2.6 %	0.5 %	0.4 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5012 ppm	5.5980 ppm	0.4863 ppm	0.5026 ppm	0.5159 ppm	0.5114 ppm	0.5041 ppm
Concentration per Run 1	0.4982 ppm	5.5667 ppm	0.4841 ppm	0.5086 ppm	0.5168 ppm	0.5080 ppm	0.5034 ppm
Concentration per Run 2	0.5035 ppm	5.6130 ppm	0.4873 ppm	0.5152 ppm	0.5156 ppm	0.5122 ppm	0.5053 ppm
Concentration per Run 3	0.5019 ppm	5.6144 ppm	0.4875 ppm	0.4841 ppm	0.5152 ppm	0.5139 ppm	0.5036 ppm
Recovery Percentage 1	100.244 %	106.629 %	97.257 %	100.527 %	103.173 %	102.274 %	100.821 %
Concentration RSD	0.5 %	0.5 %	0.4 %	3.3 %	0.2 %	0.6 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5101 ppm	93.5802 %	96.9175 %	98.1740 %	96.6467 %	101.0532 %	100.0649 %
Concentration per Run 1	0.5076 ppm	91.9643 %	97.1006 %	98.7441 %	95.1809 %	101.4704 %	100.1793 %
Concentration per Run 2	0.5111 ppm	91.7496 %	97.0034 %	98.0285 %	95.3546 %	100.9451 %	100.2150 %
Concentration per Run 3	0.5117 ppm	97.0266 %	96.6486 %	97.7494 %	99.4047 %	100.7441 %	99.8004 %
Recovery Percentage 1	102.022 %						
Concentration RSD	0.4 %	3.2 %	0.2 %	0.5 %	2.5 %	0.4 %	0.2 %

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 1:11:33 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	-0.0055 ppm	0.0003 ppm	0.0019 ppm	0.0001 ppm	0.0002 ppm	-0.0060 ppm
Concentration per Run 1	-0.0002 ppm	-0.0039 ppm	0.0014 ppm	0.0019 ppm	0.0002 ppm	0.0003 ppm	-0.0051 ppm
Concentration per Run 2	-0.0004 ppm	-0.0121 ppm	-0.0006 ppm	0.0023 ppm	0.0001 ppm	0.0001 ppm	-0.0026 ppm
Concentration per Run 3	-0.0003 ppm	-0.0005 ppm	0.0002 ppm	0.0016 ppm	0.0001 ppm	0.0001 ppm	-0.0104 ppm
Recovery Percentage 1	-4.143 %	-5.499 %	6.807 %	6.410 %	1.396 %	3.394 %	-6.027 %
Concentration RSD	42.0 %	107.9 %	285.2 %	18.1 %	44.4 %	84.7 %	65.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0011 ppm	-0.0145 ppm	-0.0012 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0007 ppm	-0.0183 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0019 ppm	-0.0106 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm	-0.0147 ppm	-0.0010 ppm
Recovery Percentage 1	-0.045 %	0.364 %	2.108 %	2.843 %	2.206 %	-0.581 %	-11.542 %
Concentration RSD	854.1 %	148.1 %	107.6 %	103.2 %	64.9 %	26.3 %	55.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0002 ppm	0.0031 ppm	0.0027 ppm	0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 1	0.0009 ppm	0.0002 ppm	0.0036 ppm	0.0167 ppm	0.0004 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 2	-0.0005 ppm	0.0000 ppm	0.0029 ppm	-0.0042 ppm	-0.0001 ppm	0.0001 ppm	0.0028 ppm
Concentration per Run 3	-0.0016 ppm	0.0004 ppm	0.0027 ppm	-0.0045 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm
Recovery Percentage 1	-0.387 %	1.605 %	6.112 %	0.134 %	0.495 %	-0.213 %	3.352 %
Concentration RSD	330.5 %	125.0 %	15.0 %	453.3 %	207.2 %	1,472.5 %	60.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0015 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	-0.0008 ppm	0.0025 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0011 ppm	0.0013 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0024 ppm	0.0001 ppm
Concentration per Run 3	0.0018 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm	0.0005 ppm
Recovery Percentage 1	6.643 %	0.291 %	-0.062 %	2.628 %	0.695 %	3.734 %	2.154 %
Concentration RSD	200.2 %	67.9 %	105.1 %	63.5 %	95.2 %	209.7 %	119.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0002 ppm	103.6304 %	98.3163 %	99.3591 %	100.3378 %	100.4504 %	98.7197 %
Concentration per Run 1	-0.0002 ppm	104.0350 %	98.5576 %	100.0357 %	98.7376 %	100.9115 %	98.8425 %
Concentration per Run 2	-0.0002 ppm	103.1049 %	98.2820 %	99.0603 %	100.4003 %	100.2284 %	98.6902 %
Concentration per Run 3	-0.0002 ppm	103.7512 %	98.1092 %	98.9813 %	101.8754 %	100.2113 %	98.6265 %
Recovery Percentage 1	-3.460 %						
Concentration RSD	11.7 %	0.5 %	0.2 %	0.6 %	1.6 %	0.4 %	0.1 %

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LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 1:17:52 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5456 ppm	0.4916 ppm	0.5218 ppm	0.5211 ppm	0.4917 ppm	0.5021 ppm	0.4973 ppm
Concentration per Run 1	0.5436 ppm	0.4709 ppm	0.5208 ppm	0.5212 ppm	0.4729 ppm	0.4825 ppm	0.4756 ppm
Concentration per Run 2	0.5453 ppm	0.4995 ppm	0.5224 ppm	0.5187 ppm	0.4993 ppm	0.5098 ppm	0.5083 ppm
Concentration per Run 3	0.5479 ppm	0.5044 ppm	0.5223 ppm	0.5234 ppm	0.5028 ppm	0.5140 ppm	0.5080 ppm
Recovery Percentage 1	109.122 %	98.325 %	104.360 %	104.221 %	98.340 %	100.418 %	99.462 %
Concentration RSD	0.4 %	3.7 %	0.2 %	0.5 %	3.3 %	3.4 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5270 ppm	0.5392 ppm	0.5377 ppm	0.5270 ppm	0.5190 ppm	5.1935 ppm	0.5023 ppm
Concentration per Run 1	0.5279 ppm	0.5397 ppm	0.5352 ppm	0.5252 ppm	0.4938 ppm	4.9934 ppm	0.4798 ppm
Concentration per Run 2	0.5252 ppm	0.5375 ppm	0.5383 ppm	0.5269 ppm	0.5271 ppm	5.2912 ppm	0.5105 ppm
Concentration per Run 3	0.5279 ppm	0.5403 ppm	0.5395 ppm	0.5288 ppm	0.5361 ppm	5.2958 ppm	0.5167 ppm
Recovery Percentage 1	105.397 %	107.835 %	107.538 %	105.393 %	103.798 %	103.869 %	100.467 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.3 %	4.3 %	3.3 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5349 ppm	0.4985 ppm	0.5320 ppm	10.7908 ppm	0.5359 ppm	0.5333 ppm	0.5364 ppm
Concentration per Run 1	0.5340 ppm	0.4786 ppm	0.5288 ppm	10.5414 ppm	0.5365 ppm	0.5336 ppm	0.5357 ppm
Concentration per Run 2	0.5360 ppm	0.5055 ppm	0.5304 ppm	10.8826 ppm	0.5348 ppm	0.5317 ppm	0.5364 ppm
Concentration per Run 3	0.5346 ppm	0.5113 ppm	0.5367 ppm	10.9484 ppm	0.5363 ppm	0.5346 ppm	0.5370 ppm
Recovery Percentage 1	106.974 %	99.694 %	106.397 %	107.908 %	107.175 %	106.664 %	107.271 %
Concentration RSD	0.2 %	3.5 %	0.8 %	2.0 %	0.2 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5205 ppm	5.9882 ppm	0.5212 ppm	0.4949 ppm	0.5362 ppm	0.5356 ppm	0.5248 ppm
Concentration per Run 1	0.5207 ppm	5.9957 ppm	0.5224 ppm	0.4758 ppm	0.5344 ppm	0.5357 ppm	0.5235 ppm
Concentration per Run 2	0.5197 ppm	5.9656 ppm	0.5191 ppm	0.5029 ppm	0.5365 ppm	0.5347 ppm	0.5245 ppm
Concentration per Run 3	0.5210 ppm	6.0034 ppm	0.5221 ppm	0.5061 ppm	0.5377 ppm	0.5363 ppm	0.5265 ppm
Recovery Percentage 1	104.097 %	114.061 %	104.240 %	98.986 %	107.239 %	107.113 %	104.967 %
Concentration RSD	0.1 %	0.3 %	0.3 %	3.4 %	0.3 %	0.1 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5329 ppm	100.4895 %	96.4629 %	97.6422 %	104.8937 %	100.6636 %	100.0359 %
Concentration per Run 1	0.5338 ppm	104.2514 %	96.5556 %	97.3437 %	107.2681 %	100.5632 %	100.1559 %
Concentration per Run 2	0.5315 ppm	99.6371 %	96.3778 %	97.7199 %	104.7020 %	100.7812 %	99.8987 %
Concentration per Run 3	0.5334 ppm	97.5800 %	96.4554 %	97.8631 %	102.7110 %	100.6465 %	100.0532 %
Recovery Percentage 1	106.584 %						
Concentration RSD	0.2 %	3.4 %	0.1 %	0.3 %	2.2 %	0.1 %	0.1 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 1:23:54 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0038 ppm	0.0000 ppm	0.0018 ppm	0.0002 ppm	0.0002 ppm	-0.0025 ppm
Concentration per Run 1	0.0004 ppm	-0.0031 ppm	-0.0006 ppm	0.0021 ppm	0.0002 ppm	0.0002 ppm	0.0013 ppm
Concentration per Run 2	0.0006 ppm	-0.0048 ppm	0.0007 ppm	0.0019 ppm	0.0002 ppm	0.0003 ppm	-0.0058 ppm
Concentration per Run 3	0.0002 ppm	-0.0034 ppm	0.0000 ppm	0.0015 ppm	0.0002 ppm	0.0002 ppm	-0.0029 ppm
Recovery Percentage 1	5.570 %	-3.764 %	0.867 %	6.152 %	1.789 %	4.653 %	-2.468 %
Concentration RSD	48.2 %	24.0 %	1,586.1 %	16.4 %	10.6 %	13.7 %	144.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	-0.0247 ppm	-0.0036 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	-0.0157 ppm	-0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0006 ppm	0.0005 ppm	0.0007 ppm	-0.0180 ppm	-0.0041 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0004 ppm	-0.0006 ppm	-0.0404 ppm	-0.0040 ppm
Recovery Percentage 1	0.383 %	-0.497 %	-1.369 %	2.535 %	-0.320 %	-0.988 %	-36.494 %
Concentration RSD	48.1 %	280.0 %	266.1 %	128.9 %	489.7 %	55.3 %	18.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0004 ppm	0.0001 ppm	0.0025 ppm	-0.0014 ppm	0.0002 ppm	0.0003 ppm	0.0019 ppm
Concentration per Run 1	-0.0033 ppm	0.0001 ppm	0.0031 ppm	0.0064 ppm	-0.0002 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0000 ppm	0.0024 ppm	-0.0184 ppm	0.0006 ppm	0.0001 ppm	0.0025 ppm
Concentration per Run 3	0.0019 ppm	0.0003 ppm	0.0021 ppm	0.0076 ppm	0.0002 ppm	0.0008 ppm	0.0027 ppm
Recovery Percentage 1	-0.383 %	1.147 %	5.098 %	-0.072 %	0.796 %	3.210 %	3.771 %
Concentration RSD	705.9 %	148.8 %	19.1 %	1,019.5 %	180.5 %	129.1 %	64.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0019 ppm	0.0003 ppm
Concentration per Run 1	-0.0002 ppm	0.0007 ppm	-0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 2	0.0016 ppm	0.0008 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 3	-0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0030 ppm	0.0004 ppm
Recovery Percentage 1	2.233 %	0.100 %	-0.154 %	2.621 %	2.886 %	9.259 %	2.758 %
Concentration RSD	545.0 %	85.2 %	69.7 %	105.2 %	78.7 %	56.3 %	42.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	105.1649 %	100.7490 %	100.2047 %	102.6685 %	101.6954 %	101.3004 %
Concentration per Run 1	0.0001 ppm	104.9510 %	100.9443 %	100.4374 %	101.5068 %	101.8583 %	101.3469 %
Concentration per Run 2	0.0001 ppm	105.8237 %	100.8700 %	100.1595 %	103.4054 %	101.6115 %	101.3904 %
Concentration per Run 3	-0.0002 ppm	104.7199 %	100.4328 %	100.0171 %	103.0932 %	101.6162 %	101.1640 %
Recovery Percentage 1	0.623 %						
Concentration RSD	513.6 %	0.6 %	0.3 %	0.2 %	1.0 %	0.1 %	0.1 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-04 WG1975196
Analysis started at: 9/24/2024 1:41:25 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0077 ppm	0.0004 ppm	0.0222 ppm	0.0863 ppm	0.0000 ppm	93.0666 ppm
Concentration per Run 1	-0.0004 ppm	0.0002 ppm	0.0014 ppm	0.0221 ppm	0.0882 ppm	0.0000 ppm	95.2104 ppm
Concentration per Run 2	0.0000 ppm	0.0150 ppm	0.0003 ppm	0.0219 ppm	0.0850 ppm	0.0000 ppm	91.5036 ppm
Concentration per Run 3	0.0005 ppm	0.0079 ppm	-0.0006 ppm	0.0226 ppm	0.0856 ppm	-0.0001 ppm	92.4858 ppm
Concentration RSD	1,048.6 %	96.0 %	273.2 %	1.7 %	2.0 %	309.2 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0017 ppm	0.0072 ppm	2.8324 ppm	-0.0047 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0021 ppm	0.0069 ppm	2.9354 ppm	-0.0043 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0019 ppm	0.0073 ppm	2.7599 ppm	-0.0054 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0012 ppm	0.0074 ppm	2.8021 ppm	-0.0043 ppm
Concentration RSD	1,126.2 %	460.9 %	130.2 %	26.1 %	3.8 %	3.2 %	14.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.5599 ppm	0.0001 ppm	0.0004 ppm	4.7559 ppm	-0.0005 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 1	15.6071 ppm	-0.0001 ppm	0.0003 ppm	4.9674 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 2	15.5485 ppm	0.0001 ppm	0.0005 ppm	4.6702 ppm	-0.0010 ppm	-0.0001 ppm	0.0022 ppm
Concentration per Run 3	15.5239 ppm	0.0003 ppm	0.0005 ppm	4.6301 ppm	-0.0005 ppm	0.0006 ppm	0.0002 ppm
Concentration RSD	0.3 %	274.3 %	31.1 %	3.9 %	108.7 %	259.2 %	103.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	5.8056 ppm	-0.0003 ppm	0.2480 ppm	0.0002 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 1	0.0015 ppm	5.8246 ppm	-0.0001 ppm	0.2534 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 2	0.0014 ppm	5.7996 ppm	-0.0004 ppm	0.2439 ppm	0.0001 ppm	0.0017 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	5.7926 ppm	-0.0004 ppm	0.2467 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm
Concentration RSD	72.3 %	0.3 %	53.6 %	2.0 %	46.8 %	163.5 %	44.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0021 ppm	103.1043 %	98.0827 %	97.9460 %	95.9002 %	96.9976 %	97.2852 %
Concentration per Run 1	0.0022 ppm	100.9059 %	98.0790 %	98.0263 %	91.7578 %	96.6648 %	96.8688 %
Concentration per Run 2	0.0020 ppm	104.1628 %	98.4234 %	98.1924 %	96.8719 %	97.1243 %	97.5838 %
Concentration per Run 3	0.0021 ppm	104.2442 %	97.7458 %	97.6194 %	99.0708 %	97.2037 %	97.4030 %
Concentration RSD	5.1 %	1.8 %	0.3 %	0.3 %	3.9 %	0.3 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-05 WG1975196
Analysis started at: 9/24/2024 1:47:39 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0028 ppm	-0.0001 ppm	0.0085 ppm	0.0046 ppm	0.0000 ppm	17.1602 ppm
Concentration per Run 1	-0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0087 ppm	0.0047 ppm	0.0000 ppm	17.2341 ppm
Concentration per Run 2	0.0005 ppm	0.0027 ppm	-0.0010 ppm	0.0083 ppm	0.0045 ppm	-0.0001 ppm	17.0021 ppm
Concentration per Run 3	-0.0002 ppm	0.0052 ppm	0.0011 ppm	0.0087 ppm	0.0046 ppm	0.0001 ppm	17.2445 ppm
Concentration RSD	991.0 %	84.8 %	1,372.5 %	2.7 %	2.3 %	1,256.8 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0009 ppm	0.0006 ppm	0.0625 ppm	0.7137 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0011 ppm	0.0629 ppm	0.7420 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0006 ppm	0.0620 ppm	0.6764 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0011 ppm	0.0001 ppm	0.0626 ppm	0.7226 ppm	0.0026 ppm
Concentration RSD	4,074.9 %	62.3 %	42.4 %	76.5 %	0.8 %	4.7 %	398.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.4875 ppm	0.0331 ppm	0.0004 ppm	6.2964 ppm	-0.0004 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	2.4986 ppm	0.0331 ppm	0.0002 ppm	6.4392 ppm	-0.0005 ppm	-0.0003 ppm	-0.0009 ppm
Concentration per Run 2	2.4976 ppm	0.0329 ppm	0.0003 ppm	6.2674 ppm	-0.0002 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 3	2.4662 ppm	0.0333 ppm	0.0008 ppm	6.1828 ppm	-0.0006 ppm	0.0009 ppm	0.0009 ppm
Concentration RSD	0.7 %	0.5 %	79.6 %	2.1 %	51.2 %	167.8 %	3,057.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	10.7062 ppm	-0.0008 ppm	0.1371 ppm	0.0004 ppm	0.0012 ppm	0.0014 ppm
Concentration per Run 1	0.0010 ppm	10.7600 ppm	-0.0008 ppm	0.1376 ppm	0.0004 ppm	0.0005 ppm	0.0012 ppm
Concentration per Run 2	-0.0002 ppm	10.7227 ppm	-0.0008 ppm	0.1360 ppm	0.0006 ppm	0.0014 ppm	0.0015 ppm
Concentration per Run 3	0.0008 ppm	10.6357 ppm	-0.0008 ppm	0.1377 ppm	0.0003 ppm	0.0015 ppm	0.0014 ppm
Concentration RSD	114.2 %	0.6 %	5.4 %	0.7 %	31.1 %	48.1 %	10.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0005 ppm	103.8599 %	99.8257 %	100.5443 %	98.2820 %	101.0580 %	99.4201 %
Concentration per Run 1	0.0004 ppm	103.3603 %	99.7746 %	100.7424 %	95.9519 %	100.7286 %	99.1469 %
Concentration per Run 2	0.0005 ppm	104.6890 %	99.6470 %	100.4677 %	98.6791 %	100.7991 %	99.0321 %
Concentration per Run 3	0.0005 ppm	103.5304 %	100.0554 %	100.4227 %	100.2150 %	101.6462 %	100.0812 %
Concentration RSD	11.0 %	0.7 %	0.2 %	0.2 %	2.2 %	0.5 %	0.6 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-06 WG1975196
Analysis started at: 9/24/2024 1:53:52 PM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0024 ppm	-0.0001 ppm	0.0065 ppm	0.0196 ppm	0.0000 ppm	3.8192 ppm
Concentration per Run 1	0.0001 ppm	0.0017 ppm	0.0010 ppm	0.0068 ppm	0.0203 ppm	0.0000 ppm	3.9171 ppm
Concentration per Run 2	0.0001 ppm	-0.0023 ppm	-0.0013 ppm	0.0065 ppm	0.0195 ppm	0.0000 ppm	3.7828 ppm
Concentration per Run 3	-0.0003 ppm	0.0077 ppm	0.0001 ppm	0.0061 ppm	0.0192 ppm	0.0000 ppm	3.7579 ppm
Concentration RSD	685.4 %	211.4 %	1,543.6 %	5.1 %	2.8 %	184.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0013 ppm	0.0006 ppm	0.8899 ppm	-0.0023 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0010 ppm	0.0014 ppm	0.0009 ppm	0.9264 ppm	-0.0043 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	0.0013 ppm	0.0004 ppm	0.8813 ppm	-0.0027 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0010 ppm	0.0004 ppm	0.8621 ppm	0.0000 ppm
Concentration RSD	264.1 %	52.0 %	19.8 %	15.5 %	51.5 %	3.7 %	93.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.5447 ppm	0.0014 ppm	0.0003 ppm	1.8057 ppm	-0.0001 ppm	-0.0003 ppm	0.0009 ppm
Concentration per Run 1	1.5533 ppm	0.0011 ppm	0.0003 ppm	1.8907 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 2	1.5411 ppm	0.0012 ppm	0.0004 ppm	1.7963 ppm	-0.0004 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 3	1.5397 ppm	0.0018 ppm	0.0002 ppm	1.7301 ppm	-0.0001 ppm	-0.0006 ppm	0.0017 ppm
Concentration RSD	0.5 %	30.0 %	34.1 %	4.5 %	134.9 %	117.1 %	80.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	3.4074 ppm	-0.0008 ppm	0.0163 ppm	0.0000 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 1	0.0018 ppm	3.4271 ppm	-0.0009 ppm	0.0169 ppm	-0.0001 ppm	0.0015 ppm	0.0000 ppm
Concentration per Run 2	0.0029 ppm	3.4040 ppm	-0.0005 ppm	0.0161 ppm	0.0001 ppm	0.0019 ppm	0.0001 ppm
Concentration per Run 3	-0.0007 ppm	3.3912 ppm	-0.0011 ppm	0.0159 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm
Concentration RSD	135.1 %	0.5 %	39.7 %	3.1 %	571.2 %	65.4 %	114.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0014 ppm	102.1439 %	100.7394 %	101.5349 %	96.1642 %	102.0711 %	99.7961 %
Concentration per Run 1	0.0014 ppm	100.0370 %	100.1148 %	101.3524 %	92.2464 %	101.3257 %	98.9195 %
Concentration per Run 2	0.0014 ppm	102.9262 %	101.2916 %	101.4742 %	97.0473 %	102.1429 %	100.3078 %
Concentration per Run 3	0.0013 ppm	103.4685 %	100.8119 %	101.7780 %	99.1989 %	102.7446 %	100.1611 %
Concentration RSD	3.6 %	1.8 %	0.6 %	0.2 %	3.7 %	0.7 %	0.8 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-07 WG1975196
Analysis started at: 9/24/2024 2:00:08 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0134 ppm	0.0096 ppm	0.0000 ppm	10.4192 ppm
Concentration per Run 1	-0.0001 ppm	0.0046 ppm	-0.0003 ppm	0.0132 ppm	0.0098 ppm	0.0000 ppm	10.6762 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0000 ppm	0.0134 ppm	0.0093 ppm	0.0000 ppm	10.2554 ppm
Concentration per Run 3	-0.0001 ppm	-0.0056 ppm	0.0006 ppm	0.0136 ppm	0.0096 ppm	0.0001 ppm	10.3261 ppm
Concentration RSD	181.0 %	9,497.7 %	451.1 %	1.5 %	2.5 %	221.5 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0008 ppm	0.0035 ppm	0.9725 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0011 ppm	0.0006 ppm	0.0033 ppm	1.0021 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0009 ppm	0.0008 ppm	0.0032 ppm	0.9666 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0010 ppm	0.0010 ppm	0.0039 ppm	0.9486 ppm	0.0016 ppm
Concentration RSD	164.3 %	77.6 %	11.7 %	25.1 %	11.3 %	2.8 %	4,784.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5683 ppm	0.0096 ppm	0.0003 ppm	16.4454 ppm	-0.0003 ppm	-0.0002 ppm	0.0010 ppm
Concentration per Run 1	5.5818 ppm	0.0099 ppm	0.0002 ppm	17.3415 ppm	0.0000 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 2	5.5745 ppm	0.0093 ppm	0.0004 ppm	16.1656 ppm	-0.0003 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 3	5.5485 ppm	0.0096 ppm	0.0003 ppm	15.8290 ppm	-0.0005 ppm	0.0001 ppm	0.0019 ppm
Concentration RSD	0.3 %	2.8 %	25.8 %	4.8 %	110.5 %	130.7 %	107.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	6.9631 ppm	-0.0011 ppm	0.0509 ppm	0.0003 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 1	0.0002 ppm	6.9835 ppm	-0.0012 ppm	0.0520 ppm	0.0004 ppm	0.0013 ppm	0.0004 ppm
Concentration per Run 2	0.0030 ppm	6.9081 ppm	-0.0010 ppm	0.0503 ppm	0.0002 ppm	0.0020 ppm	0.0003 ppm
Concentration per Run 3	-0.0044 ppm	6.9978 ppm	-0.0010 ppm	0.0505 ppm	0.0003 ppm	0.0012 ppm	0.0006 ppm
Concentration RSD	977.4 %	0.7 %	11.0 %	1.9 %	32.2 %	26.8 %	37.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0007 ppm	103.0658 %	99.1461 %	99.4055 %	95.5186 %	99.8334 %	98.7193 %
Concentration per Run 1	0.0008 ppm	100.9902 %	98.9959 %	99.4820 %	90.7784 %	99.3772 %	98.1423 %
Concentration per Run 2	0.0007 ppm	104.8025 %	99.2326 %	100.2811 %	97.1993 %	100.7810 %	98.6987 %
Concentration per Run 3	0.0007 ppm	103.4047 %	99.2097 %	98.4535 %	98.5780 %	99.3421 %	99.3169 %
Concentration RSD	5.0 %	1.9 %	0.1 %	0.9 %	4.4 %	0.8 %	0.6 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-08 WG1975196
Analysis started at: 9/24/2024 2:06:22 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0073 ppm	0.0003 ppm	0.0833 ppm	0.0417 ppm	0.0000 ppm	57.3325 ppm
Concentration per Run 1	-0.0007 ppm	0.0013 ppm	0.0011 ppm	0.0838 ppm	0.0425 ppm	0.0000 ppm	58.1128 ppm
Concentration per Run 2	-0.0003 ppm	0.0070 ppm	0.0012 ppm	0.0825 ppm	0.0414 ppm	0.0000 ppm	57.1872 ppm
Concentration per Run 3	0.0000 ppm	0.0137 ppm	-0.0013 ppm	0.0837 ppm	0.0412 ppm	0.0001 ppm	56.6974 ppm
Concentration RSD	100.5 %	84.5 %	417.8 %	0.9 %	1.6 %	3,242.6 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0028 ppm	0.0076 ppm	4.2790 ppm	-0.0037 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0031 ppm	0.0086 ppm	4.3309 ppm	-0.0043 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0026 ppm	0.0068 ppm	4.2791 ppm	-0.0047 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0028 ppm	0.0074 ppm	4.2269 ppm	-0.0021 ppm
Concentration RSD	253.7 %	365.6 %	171.4 %	9.5 %	12.1 %	1.2 %	38.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.1579 ppm	0.0729 ppm	0.0013 ppm	9.6151 ppm	0.0002 ppm	0.0003 ppm	0.0009 ppm
Concentration per Run 1	11.1855 ppm	0.0738 ppm	0.0014 ppm	9.8947 ppm	0.0002 ppm	-0.0006 ppm	0.0019 ppm
Concentration per Run 2	11.1518 ppm	0.0727 ppm	0.0013 ppm	9.5274 ppm	0.0002 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 3	11.1364 ppm	0.0722 ppm	0.0013 ppm	9.4233 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm
Concentration RSD	0.2 %	1.1 %	1.8 %	2.6 %	6.5 %	299.2 %	94.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	4.2778 ppm	-0.0010 ppm	0.2698 ppm	0.0006 ppm	0.0019 ppm	0.0007 ppm
Concentration per Run 1	0.0024 ppm	4.2965 ppm	-0.0010 ppm	0.2730 ppm	0.0002 ppm	0.0014 ppm	0.0009 ppm
Concentration per Run 2	-0.0003 ppm	4.2515 ppm	-0.0010 ppm	0.2693 ppm	0.0009 ppm	0.0022 ppm	0.0006 ppm
Concentration per Run 3	-0.0019 ppm	4.2855 ppm	-0.0010 ppm	0.2672 ppm	0.0006 ppm	0.0019 ppm	0.0006 ppm
Concentration RSD	4,203.4 %	0.5 %	2.7 %	1.1 %	61.6 %	21.7 %	29.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	102.4643 %	98.1717 %	98.7715 %	96.2679 %	98.2205 %	97.6915 %
Concentration per Run 1	0.0017 ppm	101.7275 %	98.4643 %	98.4431 %	94.1255 %	97.5353 %	97.4631 %
Concentration per Run 2	0.0018 ppm	102.5920 %	98.2497 %	99.4077 %	96.8049 %	98.9020 %	97.8190 %
Concentration per Run 3	0.0015 ppm	103.0735 %	97.8011 %	98.4635 %	97.8734 %	98.2240 %	97.7923 %
Concentration RSD	8.1 %	0.7 %	0.3 %	0.6 %	2.0 %	0.7 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453342-10 WG1975196
Analysis started at: 9/24/2024 2:12:35 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	-0.0067 ppm	0.0001 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0444 ppm
Concentration per Run 1	0.0000 ppm	-0.0029 ppm	-0.0008 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0538 ppm
Concentration per Run 2	0.0007 ppm	-0.0090 ppm	-0.0004 ppm	0.0008 ppm	0.0004 ppm	0.0001 ppm	0.0387 ppm
Concentration per Run 3	0.0003 ppm	-0.0083 ppm	0.0016 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0405 ppm
Concentration RSD	100.1 %	49.3 %	1,045.7 %	18.5 %	81.1 %	1,005.4 %	18.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0006 ppm	0.0015 ppm	-0.0449 ppm	-0.0030 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0008 ppm	0.0008 ppm	0.0027 ppm	-0.0282 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0010 ppm	0.0003 ppm	0.0007 ppm	-0.1002 ppm	-0.0033 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0010 ppm	0.0008 ppm	0.0012 ppm	-0.0064 ppm	-0.0050 ppm
Concentration RSD	96.1 %	241.9 %	10.7 %	39.8 %	68.9 %	109.3 %	72.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0065 ppm	0.0003 ppm	0.0001 ppm	-0.0073 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0079 ppm	0.0003 ppm	0.0001 ppm	-0.0053 ppm	0.0000 ppm	-0.0001 ppm	0.0015 ppm
Concentration per Run 2	0.0049 ppm	0.0004 ppm	-0.0001 ppm	-0.0075 ppm	-0.0001 ppm	-0.0010 ppm	0.0009 ppm
Concentration per Run 3	0.0068 ppm	0.0001 ppm	0.0003 ppm	-0.0092 ppm	-0.0001 ppm	0.0005 ppm	-0.0002 ppm
Concentration RSD	23.1 %	61.3 %	195.4 %	26.9 %	98.7 %	401.4 %	125.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.0075 ppm	-0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0007 ppm	0.0075 ppm	-0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0013 ppm	0.0004 ppm
Concentration per Run 2	-0.0004 ppm	0.0075 ppm	-0.0009 ppm	0.0004 ppm	-0.0001 ppm	0.0019 ppm	0.0005 ppm
Concentration per Run 3	0.0004 ppm	0.0073 ppm	-0.0009 ppm	0.0005 ppm	0.0000 ppm	-0.0005 ppm	0.0004 ppm
Concentration RSD	225.5 %	1.5 %	10.4 %	13.5 %	221.4 %	134.2 %	18.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	103.6213 %	100.2391 %	100.7634 %	96.2641 %	101.4351 %	98.9847 %
Concentration per Run 1	0.0008 ppm	101.9527 %	99.9360 %	100.9061 %	92.7663 %	101.0341 %	98.3568 %
Concentration per Run 2	0.0008 ppm	103.6503 %	100.6095 %	100.7286 %	96.8079 %	101.1753 %	99.3414 %
Concentration per Run 3	0.0009 ppm	105.2609 %	100.1717 %	100.6555 %	99.2181 %	102.0960 %	99.2558 %
Concentration RSD	7.3 %	1.6 %	0.3 %	0.1 %	3.4 %	0.6 %	0.6 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 2:18:53 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5431 ppm	0.5121 ppm	0.5205 ppm	0.5191 ppm	0.4986 ppm	0.5105 ppm	0.5061 ppm
Concentration per Run 1	0.5416 ppm	0.5299 ppm	0.5198 ppm	0.5195 ppm	0.5194 ppm	0.5322 ppm	0.5285 ppm
Concentration per Run 2	0.5438 ppm	0.4985 ppm	0.5193 ppm	0.5195 ppm	0.4880 ppm	0.4991 ppm	0.4898 ppm
Concentration per Run 3	0.5438 ppm	0.5078 ppm	0.5223 ppm	0.5183 ppm	0.4885 ppm	0.5003 ppm	0.5001 ppm
Recovery Percentage 1	108.611 %	102.414 %	104.098 %	103.817 %	99.727 %	102.104 %	101.228 %
Concentration RSD	0.2 %	3.2 %	0.3 %	0.1 %	3.6 %	3.7 %	4.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5256 ppm	0.5377 ppm	0.5355 ppm	0.5211 ppm	0.5282 ppm	5.3083 ppm	0.5125 ppm
Concentration per Run 1	0.5261 ppm	0.5378 ppm	0.5350 ppm	0.5197 ppm	0.5460 ppm	5.5415 ppm	0.5348 ppm
Concentration per Run 2	0.5260 ppm	0.5383 ppm	0.5355 ppm	0.5215 ppm	0.5191 ppm	5.1775 ppm	0.5011 ppm
Concentration per Run 3	0.5246 ppm	0.5371 ppm	0.5360 ppm	0.5222 ppm	0.5197 ppm	5.2057 ppm	0.5016 ppm
Recovery Percentage 1	105.119 %	107.544 %	107.105 %	104.228 %	105.650 %	106.165 %	102.505 %
Concentration RSD	0.2 %	0.1 %	0.1 %	0.3 %	2.9 %	3.8 %	3.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5277 ppm	0.5073 ppm	0.5308 ppm	11.0222 ppm	0.5342 ppm	0.5341 ppm	0.5358 ppm
Concentration per Run 1	0.5279 ppm	0.5271 ppm	0.5270 ppm	11.3631 ppm	0.5350 ppm	0.5336 ppm	0.5370 ppm
Concentration per Run 2	0.5251 ppm	0.4967 ppm	0.5319 ppm	10.9034 ppm	0.5347 ppm	0.5353 ppm	0.5364 ppm
Concentration per Run 3	0.5302 ppm	0.4980 ppm	0.5334 ppm	10.8000 ppm	0.5329 ppm	0.5333 ppm	0.5341 ppm
Recovery Percentage 1	105.550 %	101.450 %	106.157 %	110.222 %	106.842 %	106.814 %	107.166 %
Concentration RSD	0.5 %	3.4 %	0.6 %	2.7 %	0.2 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5206 ppm	5.9885 ppm	0.5202 ppm	0.5048 ppm	0.5307 ppm	0.5348 ppm	0.5181 ppm
Concentration per Run 1	0.5208 ppm	5.9925 ppm	0.5202 ppm	0.5255 ppm	0.5293 ppm	0.5339 ppm	0.5164 ppm
Concentration per Run 2	0.5227 ppm	5.9917 ppm	0.5205 ppm	0.4939 ppm	0.5306 ppm	0.5370 ppm	0.5186 ppm
Concentration per Run 3	0.5185 ppm	5.9814 ppm	0.5198 ppm	0.4948 ppm	0.5322 ppm	0.5336 ppm	0.5191 ppm
Recovery Percentage 1	104.127 %	114.067 %	104.031 %	100.951 %	106.142 %	106.965 %	103.614 %
Concentration RSD	0.4 %	0.1 %	0.1 %	3.6 %	0.3 %	0.4 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5323 ppm	98.3622 %	98.0595 %	97.7668 %	102.4627 %	100.5706 %	101.3666 %
Concentration per Run 1	0.5325 ppm	94.1386 %	98.2779 %	97.7158 %	99.0677 %	100.5066 %	101.3445 %
Concentration per Run 2	0.5327 ppm	100.7255 %	97.6082 %	97.6623 %	103.9001 %	100.3890 %	101.1601 %
Concentration per Run 3	0.5316 ppm	100.2223 %	98.2925 %	97.9222 %	104.4202 %	100.8163 %	101.5953 %
Recovery Percentage 1	106.452 %						
Concentration RSD	0.1 %	3.7 %	0.4 %	0.1 %	2.9 %	0.2 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 2:24:56 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0015 ppm	0.0008 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0025 ppm
Concentration per Run 1	0.0002 ppm	0.0010 ppm	0.0003 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0041 ppm	0.0002 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0020 ppm	0.0010 ppm	0.0001 ppm	0.0000 ppm	-0.0021 ppm
Recovery Percentage 1	1.916 %	1.550 %	16.988 %	3.155 %	0.936 %	0.736 %	2.459 %
Concentration RSD	186.5 %	149.6 %	121.4 %	0.7 %	172.9 %	11.6 %	202.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	-0.0451 ppm	-0.0014 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0020 ppm	-0.0344 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0005 ppm	-0.0027 ppm	-0.0317 ppm	-0.0036 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0016 ppm	-0.0693 ppm	-0.0013 ppm
Recovery Percentage 1	-0.101 %	-1.219 %	0.903 %	3.529 %	0.609 %	-1.804 %	-13.762 %
Concentration RSD	514.5 %	55.3 %	567.4 %	49.1 %	862.0 %	46.5 %	158.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0010 ppm	0.0000 ppm	0.0019 ppm	-0.0085 ppm	0.0001 ppm	-0.0007 ppm	0.0018 ppm
Concentration per Run 1	-0.0007 ppm	0.0001 ppm	0.0025 ppm	-0.0121 ppm	-0.0001 ppm	-0.0008 ppm	0.0027 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0018 ppm	-0.0061 ppm	0.0002 ppm	-0.0004 ppm	0.0008 ppm
Concentration per Run 3	-0.0021 ppm	-0.0001 ppm	0.0013 ppm	-0.0072 ppm	0.0001 ppm	-0.0010 ppm	0.0018 ppm
Recovery Percentage 1	-0.982 %	-0.324 %	3.758 %	-0.424 %	0.385 %	-7.212 %	3.502 %
Concentration RSD	105.6 %	298.3 %	30.7 %	37.8 %	158.5 %	37.8 %	54.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0017 ppm	0.0007 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0005 ppm
Concentration per Run 1	0.0014 ppm	0.0015 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0016 ppm	0.0005 ppm
Concentration per Run 2	0.0022 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 3	0.0014 ppm	0.0003 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0004 ppm
Recovery Percentage 1	16.686 %	0.142 %	-0.430 %	1.622 %	2.001 %	5.228 %	4.862 %
Concentration RSD	28.3 %	98.0 %	93.9 %	45.5 %	75.0 %	54.9 %	28.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.3818 %	98.9415 %	99.5034 %	95.9454 %	100.5797 %	98.3947 %
Concentration per Run 1	0.0001 ppm	96.0302 %	99.0218 %	99.8956 %	91.3295 %	100.9115 %	98.3147 %
Concentration per Run 2	-0.0002 ppm	101.9505 %	98.8781 %	99.3424 %	97.0752 %	100.3746 %	98.3546 %
Concentration per Run 3	0.0000 ppm	103.1648 %	98.9246 %	99.2723 %	99.4316 %	100.4529 %	98.5149 %
Recovery Percentage 1	-0.441 %						
Concentration RSD	580.9 %	3.8 %	0.1 %	0.3 %	4.3 %	0.3 %	0.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453311-01 WG1974743
Analysis started at: 9/24/2024 2:57:07 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0580 ppm	-0.0006 ppm	0.0094 ppm	0.0762 ppm	0.0000 ppm	34.7281 ppm
Concentration per Run 1	0.0005 ppm	0.0512 ppm	0.0007 ppm	0.0094 ppm	0.0756 ppm	0.0001 ppm	34.4242 ppm
Concentration per Run 2	0.0000 ppm	0.0659 ppm	-0.0004 ppm	0.0092 ppm	0.0773 ppm	0.0000 ppm	35.3112 ppm
Concentration per Run 3	-0.0001 ppm	0.0570 ppm	-0.0020 ppm	0.0097 ppm	0.0756 ppm	0.0000 ppm	34.4488 ppm
Concentration RSD	281.6 %	12.8 %	226.7 %	3.1 %	1.3 %	140.1 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0022 ppm	0.0032 ppm	-0.0003 ppm	0.0078 ppm	0.0741 ppm	0.3714 ppm	-0.0027 ppm
Concentration per Run 1	0.0022 ppm	0.0030 ppm	-0.0007 ppm	0.0081 ppm	0.0697 ppm	0.3820 ppm	-0.0025 ppm
Concentration per Run 2	0.0021 ppm	0.0033 ppm	-0.0001 ppm	0.0079 ppm	0.0784 ppm	0.3735 ppm	-0.0025 ppm
Concentration per Run 3	0.0022 ppm	0.0034 ppm	0.0000 ppm	0.0073 ppm	0.0742 ppm	0.3588 ppm	-0.0030 ppm
Concentration RSD	0.3 %	5.3 %	160.1 %	4.9 %	5.8 %	3.2 %	10.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.2773 ppm	0.4079 ppm	0.0002 ppm	140.5322 ppm	0.0045 ppm	0.0584 ppm	0.0033 ppm
Concentration per Run 1	1.2740 ppm	0.4035 ppm	0.0004 ppm	139.5903 ppm	0.0045 ppm	0.0591 ppm	0.0036 ppm
Concentration per Run 2	1.2783 ppm	0.4149 ppm	-0.0001 ppm	142.4350 ppm	0.0045 ppm	0.0576 ppm	0.0021 ppm
Concentration per Run 3	1.2796 ppm	0.4053 ppm	0.0004 ppm	139.5712 ppm	0.0044 ppm	0.0584 ppm	0.0042 ppm
Concentration RSD	0.2 %	1.5 %	108.3 %	1.2 %	1.3 %	1.2 %	32.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0001 ppm	2.3056 ppm	0.0001 ppm	0.1111 ppm	0.0007 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 1	-0.0005 ppm	2.3127 ppm	0.0003 ppm	0.1100 ppm	0.0005 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	2.3046 ppm	0.0003 ppm	0.1129 ppm	0.0009 ppm	-0.0010 ppm	0.0011 ppm
Concentration per Run 3	0.0010 ppm	2.2995 ppm	-0.0003 ppm	0.1103 ppm	0.0007 ppm	0.0007 ppm	0.0009 ppm
Concentration RSD	535.5 %	0.3 %	444.6 %	1.4 %	22.5 %	1,920.7 %	19.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1947 ppm	93.9710 %	93.4989 %	94.5702 %	98.7345 %	92.2857 %	95.2540 %
Concentration per Run 1	0.1955 ppm	94.2217 %	93.4796 %	94.4410 %	99.0036 %	91.9740 %	95.3186 %
Concentration per Run 2	0.1947 ppm	92.5681 %	93.3120 %	94.5467 %	97.5515 %	92.2666 %	95.0005 %
Concentration per Run 3	0.1941 ppm	95.1232 %	93.7049 %	94.7228 %	99.6483 %	92.6165 %	95.4431 %
Concentration RSD	0.4 %	1.4 %	0.2 %	0.2 %	1.1 %	0.3 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453311-02 WG1974743
Analysis started at: 9/24/2024 3:03:20 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0603 ppm	0.0003 ppm	0.0073 ppm	0.0674 ppm	0.0000 ppm	31.9973 ppm
Concentration per Run 1	0.0002 ppm	0.0709 ppm	0.0014 ppm	0.0079 ppm	0.0704 ppm	0.0001 ppm	33.4196 ppm
Concentration per Run 2	0.0000 ppm	0.0575 ppm	-0.0008 ppm	0.0073 ppm	0.0661 ppm	0.0000 ppm	31.5472 ppm
Concentration per Run 3	0.0003 ppm	0.0526 ppm	0.0004 ppm	0.0065 ppm	0.0655 ppm	0.0000 ppm	31.0251 ppm
Concentration RSD	86.0 %	15.8 %	351.6 %	9.7 %	3.9 %	108.4 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0013 ppm	0.0033 ppm	-0.0002 ppm	0.0099 ppm	0.1528 ppm	0.4626 ppm	-0.0034 ppm
Concentration per Run 1	0.0013 ppm	0.0033 ppm	-0.0004 ppm	0.0097 ppm	0.1571 ppm	0.5092 ppm	-0.0040 ppm
Concentration per Run 2	0.0012 ppm	0.0033 ppm	-0.0003 ppm	0.0101 ppm	0.1511 ppm	0.4571 ppm	-0.0015 ppm
Concentration per Run 3	0.0013 ppm	0.0032 ppm	0.0002 ppm	0.0098 ppm	0.1500 ppm	0.4215 ppm	-0.0048 ppm
Concentration RSD	4.2 %	1.8 %	171.5 %	1.9 %	2.5 %	9.5 %	49.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.8190 ppm	0.4052 ppm	0.0001 ppm	138.1683 ppm	0.0044 ppm	0.0313 ppm	0.0018 ppm
Concentration per Run 1	1.8133 ppm	0.4239 ppm	0.0002 ppm	144.0832 ppm	0.0044 ppm	0.0309 ppm	0.0024 ppm
Concentration per Run 2	1.8206 ppm	0.3991 ppm	0.0000 ppm	136.9699 ppm	0.0042 ppm	0.0320 ppm	0.0010 ppm
Concentration per Run 3	1.8230 ppm	0.3925 ppm	0.0002 ppm	133.4517 ppm	0.0044 ppm	0.0311 ppm	0.0020 ppm
Concentration RSD	0.3 %	4.1 %	99.9 %	3.9 %	2.2 %	1.8 %	40.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0016 ppm	2.0493 ppm	0.0000 ppm	0.0923 ppm	0.0005 ppm	-0.0003 ppm	0.0009 ppm
Concentration per Run 1	0.0016 ppm	2.0457 ppm	-0.0003 ppm	0.0967 ppm	0.0007 ppm	-0.0004 ppm	0.0008 ppm
Concentration per Run 2	0.0029 ppm	2.0508 ppm	0.0000 ppm	0.0910 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0004 ppm	2.0515 ppm	0.0002 ppm	0.0894 ppm	0.0006 ppm	-0.0005 ppm	0.0009 ppm
Concentration RSD	78.5 %	0.2 %	547.4 %	4.1 %	59.2 %	98.0 %	14.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1092 ppm	95.2979 %	94.5509 %	95.6931 %	100.4486 %	93.3077 %	95.9861 %
Concentration per Run 1	0.1090 ppm	91.2285 %	94.7726 %	95.5554 %	96.5440 %	93.3485 %	96.1917 %
Concentration per Run 2	0.1092 ppm	96.3053 %	94.7819 %	95.7080 %	100.9084 %	93.1465 %	95.9626 %
Concentration per Run 3	0.1093 ppm	98.3599 %	94.0980 %	95.8159 %	103.8933 %	93.4281 %	95.8039 %
Concentration RSD	0.2 %	3.9 %	0.4 %	0.1 %	3.7 %	0.2 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453311-03 WG1974743
Analysis started at: 9/24/2024 3:09:30 PM
Comments <Comment>
Rack: 1
Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0318 ppm	0.0006 ppm	0.0167 ppm	0.1770 ppm	0.0000 ppm	46.1277 ppm
Concentration per Run 1	0.0007 ppm	0.0279 ppm	-0.0004 ppm	0.0165 ppm	0.1814 ppm	0.0000 ppm	47.2892 ppm
Concentration per Run 2	0.0006 ppm	0.0381 ppm	0.0004 ppm	0.0169 ppm	0.1783 ppm	0.0000 ppm	46.3485 ppm
Concentration per Run 3	-0.0003 ppm	0.0293 ppm	0.0019 ppm	0.0167 ppm	0.1712 ppm	0.0000 ppm	44.7454 ppm
Concentration RSD	174.8 %	17.4 %	184.9 %	1.1 %	3.0 %	60.4 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0017 ppm	0.0026 ppm	-0.0006 ppm	0.0031 ppm	0.2154 ppm	0.9795 ppm	-0.0016 ppm
Concentration per Run 1	0.0017 ppm	0.0025 ppm	-0.0009 ppm	0.0029 ppm	0.2201 ppm	0.9817 ppm	-0.0003 ppm
Concentration per Run 2	0.0017 ppm	0.0026 ppm	-0.0004 ppm	0.0034 ppm	0.2161 ppm	0.9717 ppm	-0.0027 ppm
Concentration per Run 3	0.0017 ppm	0.0027 ppm	-0.0004 ppm	0.0030 ppm	0.2100 ppm	0.9850 ppm	-0.0019 ppm
Concentration RSD	2.5 %	3.7 %	45.8 %	7.6 %	2.4 %	0.7 %	76.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.5293 ppm	0.3650 ppm	0.0004 ppm	144.9689 ppm	0.0119 ppm	0.1256 ppm	0.0037 ppm
Concentration per Run 1	1.4786 ppm	0.3730 ppm	0.0004 ppm	148.0368 ppm	0.0117 ppm	0.1251 ppm	0.0035 ppm
Concentration per Run 2	1.5611 ppm	0.3677 ppm	0.0003 ppm	145.3070 ppm	0.0122 ppm	0.1264 ppm	0.0042 ppm
Concentration per Run 3	1.5480 ppm	0.3542 ppm	0.0004 ppm	141.5628 ppm	0.0119 ppm	0.1252 ppm	0.0035 ppm
Concentration RSD	2.9 %	2.7 %	14.8 %	2.2 %	1.9 %	0.6 %	11.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0019 ppm	1.5687 ppm	0.0003 ppm	0.1615 ppm	0.0000 ppm	-0.0008 ppm	0.0010 ppm
Concentration per Run 1	0.0032 ppm	1.5680 ppm	0.0000 ppm	0.1657 ppm	-0.0002 ppm	-0.0016 ppm	0.0012 ppm
Concentration per Run 2	0.0026 ppm	1.5721 ppm	0.0005 ppm	0.1622 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	1.5660 ppm	0.0003 ppm	0.1565 ppm	0.0003 ppm	-0.0004 ppm	0.0010 ppm
Concentration RSD	88.7 %	0.2 %	96.9 %	2.9 %	662.3 %	92.1 %	20.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.8817 ppm	91.2340 %	93.5591 %	93.4801 %	95.9588 %	91.0459 %	95.2588 %
Concentration per Run 1	0.8800 ppm	88.9579 %	95.8080 %	93.3536 %	94.0016 %	91.0930 %	98.2917 %
Concentration per Run 2	0.8834 ppm	90.6747 %	92.2370 %	93.6545 %	95.6006 %	91.0480 %	93.3548 %
Concentration per Run 3	0.8817 ppm	94.0693 %	92.6323 %	93.4322 %	98.2741 %	90.9965 %	94.1300 %
Concentration RSD	0.2 %	2.9 %	2.1 %	0.2 %	2.2 %	0.1 %	2.8 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453311-04 WG1974743
Analysis started at: 9/24/2024 3:15:40 PM
Comments <Comment>
Rack: 1
Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0554 ppm	0.0002 ppm	0.0083 ppm	0.0513 ppm	0.0000 ppm	54.2001 ppm
Concentration per Run 1	-0.0003 ppm	0.0562 ppm	0.0007 ppm	0.0083 ppm	0.0521 ppm	-0.0001 ppm	55.0900 ppm
Concentration per Run 2	-0.0004 ppm	0.0581 ppm	-0.0011 ppm	0.0083 ppm	0.0519 ppm	0.0000 ppm	54.7727 ppm
Concentration per Run 3	0.0003 ppm	0.0518 ppm	0.0009 ppm	0.0083 ppm	0.0498 ppm	0.0001 ppm	52.7377 ppm
Concentration RSD	313.5 %	5.8 %	641.2 %	0.4 %	2.4 %	3,833.6 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0021 ppm	-0.0002 ppm	0.0057 ppm	0.0133 ppm	0.6004 ppm	-0.0037 ppm
Concentration per Run 1	0.0004 ppm	0.0024 ppm	-0.0003 ppm	0.0054 ppm	0.0140 ppm	0.6010 ppm	-0.0036 ppm
Concentration per Run 2	0.0005 ppm	0.0019 ppm	0.0000 ppm	0.0057 ppm	0.0128 ppm	0.6218 ppm	-0.0028 ppm
Concentration per Run 3	0.0004 ppm	0.0020 ppm	-0.0003 ppm	0.0061 ppm	0.0131 ppm	0.5783 ppm	-0.0049 ppm
Concentration RSD	7.7 %	13.1 %	100.0 %	6.8 %	4.9 %	3.6 %	28.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.1774 ppm	0.2361 ppm	0.0002 ppm	148.2862 ppm	0.0046 ppm	0.0079 ppm	0.0025 ppm
Concentration per Run 1	2.1770 ppm	0.2395 ppm	0.0003 ppm	150.5408 ppm	0.0043 ppm	0.0091 ppm	0.0029 ppm
Concentration per Run 2	2.1769 ppm	0.2386 ppm	0.0001 ppm	149.9800 ppm	0.0046 ppm	0.0083 ppm	0.0028 ppm
Concentration per Run 3	2.1784 ppm	0.2302 ppm	0.0002 ppm	144.3377 ppm	0.0048 ppm	0.0064 ppm	0.0019 ppm
Concentration RSD	0.0 %	2.2 %	37.7 %	2.3 %	5.5 %	17.6 %	20.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0019 ppm	3.7793 ppm	-0.0003 ppm	0.1346 ppm	0.0007 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 1	0.0045 ppm	3.7868 ppm	-0.0007 ppm	0.1373 ppm	0.0004 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 2	0.0002 ppm	3.7790 ppm	-0.0007 ppm	0.1359 ppm	0.0010 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 3	0.0009 ppm	3.7720 ppm	0.0004 ppm	0.1306 ppm	0.0007 ppm	-0.0004 ppm	0.0011 ppm
Concentration RSD	124.2 %	0.2 %	202.7 %	2.6 %	39.3 %	586.3 %	33.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0585 ppm	91.2730 %	92.6294 %	93.5492 %	96.3090 %	91.5465 %	95.0892 %
Concentration per Run 1	0.0587 ppm	89.3029 %	92.3364 %	93.4435 %	94.8129 %	91.3161 %	94.8547 %
Concentration per Run 2	0.0583 ppm	90.0379 %	92.5910 %	93.2910 %	94.7543 %	91.4982 %	94.9771 %
Concentration per Run 3	0.0585 ppm	94.4782 %	92.9609 %	93.9130 %	99.3598 %	91.8252 %	95.4359 %
Concentration RSD	0.3 %	3.1 %	0.3 %	0.3 %	2.7 %	0.3 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 3:33:26 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0488 ppm	0.5079 ppm	0.0012 ppm	0.0023 ppm	0.4936 ppm	0.5162 ppm	0.5068 ppm
Concentration per Run 1	0.0701 ppm	0.5165 ppm	0.0058 ppm	0.0063 ppm	0.5117 ppm	0.5348 ppm	0.5287 ppm
Concentration per Run 2	0.0432 ppm	0.4984 ppm	-0.0008 ppm	0.0006 ppm	0.4799 ppm	0.5021 ppm	0.4926 ppm
Concentration per Run 3	0.0332 ppm	0.5089 ppm	-0.0016 ppm	-0.0001 ppm	0.4891 ppm	0.5118 ppm	0.4992 ppm
Recovery Percentage 1	9.766 %	101.584 %	0.231 %	0.452 %	98.721 %	103.247 %	101.366 %
Concentration RSD	39.1 %	1.8 %	351.0 %	154.9 %	3.3 %	3.3 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0026 ppm	0.0017 ppm	0.0497 ppm	0.0449 ppm	0.5204 ppm	5.2758 ppm	0.5148 ppm
Concentration per Run 1	0.0071 ppm	0.0064 ppm	0.0723 ppm	0.0643 ppm	0.5380 ppm	5.4804 ppm	0.5348 ppm
Concentration per Run 2	0.0007 ppm	-0.0003 ppm	0.0425 ppm	0.0394 ppm	0.5086 ppm	5.1369 ppm	0.4995 ppm
Concentration per Run 3	0.0001 ppm	-0.0010 ppm	0.0341 ppm	0.0310 ppm	0.5146 ppm	5.2101 ppm	0.5100 ppm
Recovery Percentage 1	0.523 %	0.342 %	9.930 %	8.976 %	104.082 %	105.516 %	102.954 %
Concentration RSD	147.9 %	238.6 %	40.4 %	38.5 %	3.0 %	3.4 %	3.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0480 ppm	0.5046 ppm	0.0136 ppm	10.6577 ppm	0.0035 ppm	0.0065 ppm	0.0016 ppm
Concentration per Run 1	0.0703 ppm	0.5213 ppm	0.0231 ppm	10.9764 ppm	0.0079 ppm	0.0108 ppm	0.0052 ppm
Concentration per Run 2	0.0397 ppm	0.4911 ppm	0.0109 ppm	10.4617 ppm	0.0014 ppm	0.0046 ppm	0.0000 ppm
Concentration per Run 3	0.0341 ppm	0.5015 ppm	0.0070 ppm	10.5351 ppm	0.0011 ppm	0.0041 ppm	-0.0005 ppm
Recovery Percentage 1	9.603 %	100.922 %	2.726 %	106.577 %	0.697 %	1.304 %	0.313 %
Concentration RSD	40.5 %	3.0 %	61.6 %	2.6 %	110.4 %	57.2 %	201.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0005 ppm	0.0272 ppm	0.0017 ppm	0.4978 ppm	0.0534 ppm	0.0141 ppm	0.0509 ppm
Concentration per Run 1	0.0067 ppm	0.0768 ppm	0.0064 ppm	0.5159 ppm	0.0754 ppm	0.0268 ppm	0.0727 ppm
Concentration per Run 2	-0.0018 ppm	0.0054 ppm	-0.0003 ppm	0.4838 ppm	0.0469 ppm	0.0110 ppm	0.0443 ppm
Concentration per Run 3	-0.0035 ppm	-0.0005 ppm	-0.0010 ppm	0.4936 ppm	0.0379 ppm	0.0046 ppm	0.0359 ppm
Recovery Percentage 1	0.093 %	0.519 %	0.348 %	99.550 %	10.677 %	2.827 %	10.190 %
Concentration RSD	1,178.1 %	158.0 %	234.4 %	3.3 %	36.7 %	81.0 %	37.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0025 ppm	97.7002 %	291.5060 %	421.7214 %	103.1884 %	332.5018 %	211.0263 %
Concentration per Run 1	0.0071 ppm	94.4516 %	291.5060 %	383.8530 %	100.6731 %	239.0561 %	220.9963 %
Concentration per Run 2	0.0005 ppm	100.0178 %	N/A	N/A	104.5924 %	343.5802 %	228.0353 %
Concentration per Run 3	-0.0001 ppm	98.6312 %	N/A	459.5898 %	104.2997 %	414.8691 %	184.0472 %
Recovery Percentage 1	0.499 %						
Concentration RSD	160.1 %	3.0 %	N/A	12.7 %	2.1 %	26.6 %	11.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 3:39:48 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0097 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 1	-0.0001 ppm	-0.0094 ppm	0.0010 ppm	0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0031 ppm
Concentration per Run 2	-0.0001 ppm	-0.0078 ppm	-0.0022 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 3	-0.0006 ppm	-0.0118 ppm	-0.0007 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0078 ppm
Recovery Percentage 1	-3.521 %	-9.677 %	-12.260 %	0.778 %	-0.494 %	0.518 %	4.232 %
Concentration RSD	114.6 %	20.4 %	259.4 %	76.9 %	281.3 %	111.9 %	75.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm	-0.0075 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0009 ppm	0.0028 ppm	-0.0146 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	-0.0013 ppm	-0.0099 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0005 ppm	-0.0009 ppm	0.0020 ppm	-0.0019 ppm
Recovery Percentage 1	-0.486 %	-0.005 %	1.905 %	7.602 %	0.356 %	-0.300 %	-8.286 %
Concentration RSD	122.5 %	20,418.8 %	205.4 %	33.0 %	1,271.5 %	114.3 %	157.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0009 ppm	0.0001 ppm	0.0012 ppm	-0.0059 ppm	0.0001 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 1	-0.0027 ppm	0.0005 ppm	0.0013 ppm	-0.0107 ppm	0.0002 ppm	-0.0002 ppm	0.0010 ppm
Concentration per Run 2	0.0012 ppm	-0.0001 ppm	0.0014 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	-0.0013 ppm	0.0000 ppm	0.0011 ppm	-0.0081 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm
Recovery Percentage 1	-0.949 %	1.175 %	2.447 %	-0.295 %	0.455 %	-2.171 %	1.592 %
Concentration RSD	207.6 %	258.4 %	12.7 %	104.3 %	132.6 %	91.0 %	39.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0007 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 2	0.0012 ppm	0.0001 ppm	-0.0006 ppm	0.0000 ppm	-0.0004 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0011 ppm	0.0010 ppm	-0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm
Recovery Percentage 1	7.311 %	0.146 %	-0.935 %	0.221 %	-0.339 %	1.737 %	3.027 %
Concentration RSD	92.3 %	77.7 %	65.9 %	148.0 %	946.5 %	21.0 %	53.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	96.1139 %	97.1680 %	98.2210 %	92.4183 %	98.2618 %	96.0050 %
Concentration per Run 1	-0.0001 ppm	94.2371 %	97.3411 %	98.1636 %	88.6675 %	97.7066 %	95.9655 %
Concentration per Run 2	0.0000 ppm	94.9986 %	96.9031 %	98.1909 %	91.3508 %	98.3072 %	95.8344 %
Concentration per Run 3	-0.0001 ppm	99.1061 %	97.2598 %	98.3086 %	97.2366 %	98.7717 %	96.2152 %
Recovery Percentage 1	-1.114 %						
Concentration RSD	74.2 %	2.7 %	0.2 %	0.1 %	4.7 %	0.5 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 3:51:22 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5142 ppm	0.4716 ppm	0.4889 ppm	0.4942 ppm	0.4677 ppm	0.4847 ppm	0.4700 ppm
Concentration per Run 1	0.5137 ppm	0.4809 ppm	0.4889 ppm	0.4946 ppm	0.4841 ppm	0.5005 ppm	0.4845 ppm
Concentration per Run 2	0.5135 ppm	0.4659 ppm	0.4881 ppm	0.4940 ppm	0.4601 ppm	0.4769 ppm	0.4661 ppm
Concentration per Run 3	0.5154 ppm	0.4681 ppm	0.4898 ppm	0.4940 ppm	0.4590 ppm	0.4768 ppm	0.4594 ppm
Recovery Percentage 1	102.841 %	94.329 %	97.789 %	98.838 %	93.545 %	96.949 %	94.001 %
Concentration RSD	0.2 %	1.7 %	0.2 %	0.1 %	3.0 %	2.8 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4875 ppm	0.4973 ppm	0.4972 ppm	0.4854 ppm	0.4733 ppm	4.9849 ppm	0.4772 ppm
Concentration per Run 1	0.4891 ppm	0.4984 ppm	0.4958 ppm	0.4855 ppm	0.4889 ppm	5.1989 ppm	0.4917 ppm
Concentration per Run 2	0.4865 ppm	0.4963 ppm	0.4980 ppm	0.4854 ppm	0.4626 ppm	4.8803 ppm	0.4706 ppm
Concentration per Run 3	0.4869 ppm	0.4970 ppm	0.4980 ppm	0.4854 ppm	0.4684 ppm	4.8755 ppm	0.4693 ppm
Recovery Percentage 1	97.504 %	99.452 %	99.450 %	97.089 %	94.657 %	99.698 %	95.442 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.0 %	2.9 %	3.7 %	2.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5056 ppm	0.4758 ppm	0.4779 ppm	10.0740 ppm	0.5039 ppm	0.5056 ppm	0.4997 ppm
Concentration per Run 1	0.5021 ppm	0.4914 ppm	0.4746 ppm	10.3750 ppm	0.5050 ppm	0.5059 ppm	0.4998 ppm
Concentration per Run 2	0.5081 ppm	0.4688 ppm	0.4774 ppm	9.9746 ppm	0.5031 ppm	0.5058 ppm	0.4995 ppm
Concentration per Run 3	0.5064 ppm	0.4673 ppm	0.4816 ppm	9.8724 ppm	0.5037 ppm	0.5050 ppm	0.4999 ppm
Recovery Percentage 1	101.111 %	95.165 %	95.579 %	100.740 %	100.787 %	101.117 %	99.943 %
Concentration RSD	0.6 %	2.8 %	0.7 %	2.6 %	0.2 %	0.1 %	0.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5062 ppm	5.5042 ppm	0.4731 ppm	0.4494 ppm	0.5032 ppm	0.4963 ppm	0.4882 ppm
Concentration per Run 1	0.5082 ppm	5.5114 ppm	0.4739 ppm	0.4647 ppm	0.5024 ppm	0.4938 ppm	0.4877 ppm
Concentration per Run 2	0.5046 ppm	5.4956 ppm	0.4717 ppm	0.4418 ppm	0.5033 ppm	0.4966 ppm	0.4892 ppm
Concentration per Run 3	0.5058 ppm	5.5055 ppm	0.4736 ppm	0.4419 ppm	0.5038 ppm	0.4984 ppm	0.4879 ppm
Recovery Percentage 1	101.241 %	104.841 %	94.614 %	89.888 %	100.631 %	99.253 %	97.649 %
Concentration RSD	0.4 %	0.1 %	0.3 %	2.9 %	0.1 %	0.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4981 ppm	98.3364 %	98.3686 %	99.5717 %	103.2241 %	100.7265 %	100.0438 %
Concentration per Run 1	0.4994 ppm	94.7942 %	98.8108 %	99.2762 %	99.9243 %	100.3911 %	100.5230 %
Concentration per Run 2	0.4974 ppm	100.2704 %	98.2900 %	99.7727 %	104.6094 %	100.9313 %	99.9862 %
Concentration per Run 3	0.4977 ppm	99.9445 %	98.0049 %	99.6663 %	105.1387 %	100.8572 %	99.6222 %
Recovery Percentage 1	99.628 %						
Concentration RSD	0.2 %	3.1 %	0.4 %	0.3 %	2.8 %	0.3 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 3:57:25 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0040 ppm	-0.0004 ppm	0.0010 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0006 ppm	0.0057 ppm	0.0004 ppm	0.0011 ppm	0.0002 ppm	0.0004 ppm	-0.0016 ppm
Concentration per Run 2	0.0000 ppm	0.0051 ppm	-0.0006 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0043 ppm
Concentration per Run 3	-0.0005 ppm	0.0012 ppm	-0.0012 ppm	0.0010 ppm	-0.0001 ppm	0.0002 ppm	-0.0028 ppm
Recovery Percentage 1	0.444 %	3.976 %	-8.909 %	3.334 %	0.901 %	5.101 %	-0.062 %
Concentration RSD	1,907.2 %	61.1 %	184.3 %	13.3 %	175.9 %	34.1 %	6,094.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0020 ppm	-0.0023 ppm	-0.0030 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0022 ppm	0.0104 ppm	-0.0035 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0030 ppm	0.0043 ppm	-0.0022 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0008 ppm	-0.0217 ppm	-0.0032 ppm
Recovery Percentage 1	0.652 %	-0.384 %	2.735 %	5.141 %	4.010 %	-0.093 %	-29.530 %
Concentration RSD	95.1 %	106.4 %	89.2 %	56.7 %	54.8 %	735.6 %	23.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0009 ppm	0.0002 ppm	0.0019 ppm	0.0082 ppm	0.0002 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	0.0011 ppm	0.0002 ppm	0.0022 ppm	0.0138 ppm	0.0003 ppm	-0.0002 ppm	0.0018 ppm
Concentration per Run 2	-0.0022 ppm	0.0001 ppm	0.0019 ppm	0.0070 ppm	-0.0001 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 3	-0.0018 ppm	0.0003 ppm	0.0017 ppm	0.0038 ppm	0.0004 ppm	-0.0002 ppm	0.0015 ppm
Recovery Percentage 1	-0.949 %	2.167 %	3.861 %	0.409 %	0.792 %	-0.266 %	2.513 %
Concentration RSD	186.8 %	40.0 %	13.7 %	62.2 %	134.9 %	883.5 %	58.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0019 ppm	0.0011 ppm	-0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 1	0.0009 ppm	0.0018 ppm	-0.0008 ppm	0.0003 ppm	0.0004 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 2	0.0031 ppm	0.0012 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 3	0.0017 ppm	0.0005 ppm	-0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0015 ppm	0.0003 ppm
Recovery Percentage 1	18.990 %	0.229 %	-0.893 %	2.057 %	1.376 %	7.356 %	2.670 %
Concentration RSD	60.3 %	59.4 %	124.7 %	53.4 %	142.6 %	2.1 %	11.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	99.0772 %	99.5327 %	100.0183 %	96.9335 %	99.9820 %	98.1548 %
Concentration per Run 1	0.0000 ppm	97.0995 %	100.1435 %	100.0725 %	94.2020 %	99.7128 %	98.5907 %
Concentration per Run 2	0.0000 ppm	99.4945 %	99.1920 %	99.9593 %	97.3499 %	99.9983 %	97.8708 %
Concentration per Run 3	0.0000 ppm	100.6375 %	99.2625 %	100.0231 %	99.2487 %	100.2350 %	98.0030 %
Recovery Percentage 1	-0.440 %						
Concentration RSD	98.0 %	1.8 %	0.5 %	0.1 %	2.6 %	0.3 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975268-2 WG1975268
Analysis started at: 9/24/2024 4:03:58 PM
Comments <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0557 ppm	2.1024 ppm	0.1253 ppm	1.0043 ppm	2.0741 ppm	0.0545 ppm	10.4090 ppm
Concentration per Run 1	0.0557 ppm	2.1415 ppm	0.1260 ppm	1.0075 ppm	2.1212 ppm	0.0557 ppm	10.6438 ppm
Concentration per Run 2	0.0559 ppm	2.1538 ppm	0.1269 ppm	1.0025 ppm	2.1133 ppm	0.0556 ppm	10.6428 ppm
Concentration per Run 3	0.0554 ppm	2.0119 ppm	0.1229 ppm	1.0030 ppm	1.9879 ppm	0.0522 ppm	9.9404 ppm
Concentration RSD	0.5 %	3.7 %	1.7 %	0.3 %	3.6 %	3.7 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0551 ppm	0.5146 ppm	0.2124 ppm	0.2658 ppm	1.0527 ppm	10.8644 ppm	-0.0003 ppm
Concentration per Run 1	0.0553 ppm	0.5163 ppm	0.2120 ppm	0.2667 ppm	1.0711 ppm	11.1107 ppm	-0.0018 ppm
Concentration per Run 2	0.0550 ppm	0.5136 ppm	0.2126 ppm	0.2659 ppm	1.0761 ppm	11.0598 ppm	0.0003 ppm
Concentration per Run 3	0.0550 ppm	0.5139 ppm	0.2127 ppm	0.2649 ppm	1.0110 ppm	10.4228 ppm	0.0007 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %	0.3 %	3.4 %	3.5 %	465.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.6237 ppm	0.5372 ppm	0.9358 ppm	11.8331 ppm	0.5242 ppm	0.5627 ppm	0.5119 ppm
Concentration per Run 1	10.6303 ppm	0.5495 ppm	0.9160 ppm	12.2326 ppm	0.5258 ppm	0.5645 ppm	0.5084 ppm
Concentration per Run 2	10.6369 ppm	0.5468 ppm	0.9358 ppm	11.9969 ppm	0.5232 ppm	0.5616 ppm	0.5116 ppm
Concentration per Run 3	10.6040 ppm	0.5155 ppm	0.9556 ppm	11.2699 ppm	0.5237 ppm	0.5619 ppm	0.5158 ppm
Concentration RSD	0.2 %	3.5 %	2.1 %	4.2 %	0.3 %	0.3 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1254 ppm	0.7439 ppm	0.9936 ppm	0.9985 ppm	1.0662 ppm	0.1241 ppm	0.5268 ppm
Concentration per Run 1	0.1249 ppm	0.7454 ppm	0.9946 ppm	1.0213 ppm	1.0688 ppm	0.1249 ppm	0.5281 ppm
Concentration per Run 2	0.1276 ppm	0.7422 ppm	0.9926 ppm	1.0173 ppm	1.0658 ppm	0.1235 ppm	0.5266 ppm
Concentration per Run 3	0.1237 ppm	0.7442 ppm	0.9936 ppm	0.9571 ppm	1.0639 ppm	0.1238 ppm	0.5257 ppm
Concentration RSD	1.6 %	0.2 %	0.1 %	3.6 %	0.2 %	0.6 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5236 ppm	93.0334 %	97.5017 %	98.4551 %	91.9695 %	99.6356 %	98.0528 %
Concentration per Run 1	0.5252 ppm	90.5902 %	97.5929 %	98.6106 %	88.5270 %	99.2983 %	98.0198 %
Concentration per Run 2	0.5222 ppm	91.2930 %	97.6967 %	98.5991 %	90.6235 %	99.9497 %	97.9535 %
Concentration per Run 3	0.5233 ppm	97.2168 %	97.2156 %	98.1555 %	96.7579 %	99.6589 %	98.1851 %
Concentration RSD	0.3 %	3.9 %	0.3 %	0.3 %	4.7 %	0.3 %	0.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453345-01D2 WG1974088
Analysis started at: 9/24/2024 4:11:58 PM
Comments <Comment>
Rack: 1
Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0007 ppm	10.6846 ppm	0.0166 ppm	0.0095 ppm	0.0345 ppm	0.0007 ppm	6.8915 ppm
Concentration per Run 1	0.0007 ppm	10.7952 ppm	0.0172 ppm	0.0092 ppm	0.0348 ppm	0.0008 ppm	6.9600 ppm
Concentration per Run 2	0.0007 ppm	10.7543 ppm	0.0153 ppm	0.0095 ppm	0.0346 ppm	0.0007 ppm	6.9265 ppm
Concentration per Run 3	0.0009 ppm	10.5043 ppm	0.0175 ppm	0.0098 ppm	0.0342 ppm	0.0007 ppm	6.7879 ppm
Concentration RSD	12.9 %	1.5 %	7.2 %	2.8 %	0.8 %	4.0 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0008 ppm	0.0093 ppm	0.0332 ppm	0.0108 ppm	17.0913 ppm	1.3722 ppm	0.0195 ppm
Concentration per Run 1	0.0008 ppm	0.0092 ppm	0.0331 ppm	0.0107 ppm	17.2364 ppm	1.4030 ppm	0.0184 ppm
Concentration per Run 2	0.0008 ppm	0.0093 ppm	0.0336 ppm	0.0107 ppm	17.1825 ppm	1.3780 ppm	0.0205 ppm
Concentration per Run 3	0.0008 ppm	0.0095 ppm	0.0330 ppm	0.0110 ppm	16.8548 ppm	1.3356 ppm	0.0197 ppm
Concentration RSD	4.4 %	1.8 %	0.9 %	1.4 %	1.2 %	2.5 %	5.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.5563 ppm	0.1809 ppm	0.0038 ppm	0.2077 ppm	0.0189 ppm	0.0437 ppm	0.0064 ppm
Concentration per Run 1	4.5380 ppm	0.1825 ppm	0.0041 ppm	0.1936 ppm	0.0191 ppm	0.0434 ppm	0.0054 ppm
Concentration per Run 2	4.5606 ppm	0.1821 ppm	0.0037 ppm	0.2160 ppm	0.0188 ppm	0.0439 ppm	0.0063 ppm
Concentration per Run 3	4.5702 ppm	0.1782 ppm	0.0036 ppm	0.2136 ppm	0.0189 ppm	0.0439 ppm	0.0074 ppm
Concentration RSD	0.4 %	1.3 %	7.1 %	5.9 %	0.8 %	0.6 %	16.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0014 ppm	2.0042 ppm	0.0029 ppm	0.0332 ppm	1.1253 ppm	0.0026 ppm	0.0341 ppm
Concentration per Run 1	0.0000 ppm	1.9993 ppm	0.0030 ppm	0.0336 ppm	1.1216 ppm	0.0033 ppm	0.0337 ppm
Concentration per Run 2	0.0041 ppm	2.0008 ppm	0.0027 ppm	0.0335 ppm	1.1249 ppm	0.0024 ppm	0.0343 ppm
Concentration per Run 3	0.0002 ppm	2.0125 ppm	0.0031 ppm	0.0326 ppm	1.1294 ppm	0.0021 ppm	0.0344 ppm
Concentration RSD	160.1 %	0.4 %	6.9 %	1.6 %	0.3 %	24.9 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1136 ppm	104.3220 %	105.7670 %	107.2671 %	116.4535 %	100.5483 %	101.6312 %
Concentration per Run 1	0.1134 ppm	102.8012 %	105.5486 %	107.5441 %	119.5653 %	101.1015 %	101.8376 %
Concentration per Run 2	0.1133 ppm	104.1873 %	106.0357 %	107.0580 %	116.3863 %	100.3987 %	101.6876 %
Concentration per Run 3	0.1141 ppm	105.9774 %	105.7167 %	107.1991 %	113.4091 %	100.1448 %	101.3683 %
Concentration RSD	0.4 %	1.5 %	0.2 %	0.2 %	2.6 %	0.5 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453345-02D2 WG1974088
Analysis started at: 9/24/2024 4:18:08 PM
Comments <Comment>
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	13.1129 ppm	0.0130 ppm	0.0106 ppm	0.0442 ppm	0.0008 ppm	8.0782 ppm
Concentration per Run 1	0.0009 ppm	13.4192 ppm	0.0138 ppm	0.0104 ppm	0.0453 ppm	0.0008 ppm	8.2763 ppm
Concentration per Run 2	0.0005 ppm	13.5618 ppm	0.0110 ppm	0.0108 ppm	0.0459 ppm	0.0008 ppm	8.3423 ppm
Concentration per Run 3	0.0009 ppm	12.3577 ppm	0.0143 ppm	0.0106 ppm	0.0413 ppm	0.0008 ppm	7.6159 ppm
Concentration RSD	30.3 %	5.0 %	13.5 %	2.1 %	5.7 %	5.0 %	5.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0006 ppm	0.0079 ppm	0.0325 ppm	0.0066 ppm	21.0323 ppm	1.8660 ppm	0.0249 ppm
Concentration per Run 1	0.0006 ppm	0.0080 ppm	0.0324 ppm	0.0065 ppm	21.4691 ppm	1.9360 ppm	0.0252 ppm
Concentration per Run 2	0.0006 ppm	0.0078 ppm	0.0322 ppm	0.0065 ppm	21.7516 ppm	1.9281 ppm	0.0252 ppm
Concentration per Run 3	0.0006 ppm	0.0078 ppm	0.0330 ppm	0.0068 ppm	19.8762 ppm	1.7338 ppm	0.0244 ppm
Concentration RSD	2.3 %	1.9 %	1.2 %	3.2 %	4.8 %	6.1 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5892 ppm	0.1944 ppm	0.0013 ppm	0.2902 ppm	0.0194 ppm	0.0655 ppm	0.0043 ppm
Concentration per Run 1	5.5887 ppm	0.1992 ppm	0.0013 ppm	0.3061 ppm	0.0191 ppm	0.0652 ppm	0.0039 ppm
Concentration per Run 2	5.5975 ppm	0.1999 ppm	0.0011 ppm	0.2916 ppm	0.0196 ppm	0.0654 ppm	0.0049 ppm
Concentration per Run 3	5.5815 ppm	0.1839 ppm	0.0013 ppm	0.2729 ppm	0.0196 ppm	0.0659 ppm	0.0043 ppm
Concentration RSD	0.1 %	4.6 %	8.7 %	5.7 %	1.4 %	0.6 %	10.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0018 ppm	2.0442 ppm	0.0019 ppm	0.0362 ppm	0.8489 ppm	0.0024 ppm	0.0368 ppm
Concentration per Run 1	0.0021 ppm	2.0475 ppm	0.0022 ppm	0.0368 ppm	0.8486 ppm	0.0029 ppm	0.0368 ppm
Concentration per Run 2	0.0022 ppm	2.0405 ppm	0.0018 ppm	0.0376 ppm	0.8499 ppm	0.0020 ppm	0.0368 ppm
Concentration per Run 3	0.0011 ppm	2.0447 ppm	0.0019 ppm	0.0342 ppm	0.8483 ppm	0.0023 ppm	0.0368 ppm
Concentration RSD	32.5 %	0.2 %	10.2 %	4.9 %	0.1 %	19.0 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1020 ppm	95.3530 %	103.8629 %	105.1612 %	92.4303 %	99.5986 %	99.0440 %
Concentration per Run 1	0.1021 ppm	92.8033 %	104.2011 %	105.2185 %	89.5565 %	99.5391 %	99.2181 %
Concentration per Run 2	0.1021 ppm	93.0656 %	103.4725 %	105.0662 %	90.7708 %	99.5901 %	98.7959 %
Concentration per Run 3	0.1019 ppm	100.1902 %	103.9152 %	105.1989 %	96.9637 %	99.6666 %	99.1181 %
Concentration RSD	0.1 %	4.4 %	0.4 %	0.1 %	4.3 %	0.1 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453345-07D2 WG1974088
Analysis started at: 9/24/2024 4:24:20 PM
Comments <Comment>
Rack: 1
Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	12.3220 ppm	0.0197 ppm	0.0108 ppm	0.0240 ppm	0.0008 ppm	5.6957 ppm
Concentration per Run 1	0.0004 ppm	12.6381 ppm	0.0197 ppm	0.0102 ppm	0.0246 ppm	0.0008 ppm	5.8500 ppm
Concentration per Run 2	0.0012 ppm	12.1575 ppm	0.0212 ppm	0.0113 ppm	0.0237 ppm	0.0009 ppm	5.6221 ppm
Concentration per Run 3	0.0008 ppm	12.1702 ppm	0.0181 ppm	0.0109 ppm	0.0238 ppm	0.0009 ppm	5.6148 ppm
Concentration RSD	44.8 %	2.2 %	7.9 %	4.9 %	2.1 %	3.6 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0003 ppm	0.0108 ppm	0.0379 ppm	0.0095 ppm	22.8465 ppm	1.7750 ppm	0.0253 ppm
Concentration per Run 1	0.0003 ppm	0.0106 ppm	0.0376 ppm	0.0094 ppm	23.4054 ppm	1.8211 ppm	0.0286 ppm
Concentration per Run 2	0.0002 ppm	0.0108 ppm	0.0382 ppm	0.0095 ppm	22.5607 ppm	1.7290 ppm	0.0259 ppm
Concentration per Run 3	0.0003 ppm	0.0110 ppm	0.0379 ppm	0.0095 ppm	22.5733 ppm	1.7748 ppm	0.0214 ppm
Concentration RSD	12.5 %	2.0 %	0.8 %	0.8 %	2.1 %	2.6 %	14.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.9024 ppm	0.2027 ppm	0.0021 ppm	0.3097 ppm	0.0219 ppm	0.0122 ppm	0.0022 ppm
Concentration per Run 1	5.8896 ppm	0.2075 ppm	0.0020 ppm	0.3197 ppm	0.0218 ppm	0.0116 ppm	0.0032 ppm
Concentration per Run 2	5.9180 ppm	0.2005 ppm	0.0022 ppm	0.3043 ppm	0.0220 ppm	0.0123 ppm	0.0007 ppm
Concentration per Run 3	5.8994 ppm	0.2000 ppm	0.0022 ppm	0.3051 ppm	0.0219 ppm	0.0128 ppm	0.0028 ppm
Concentration RSD	0.2 %	2.1 %	5.7 %	2.8 %	0.5 %	5.2 %	60.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0016 ppm	2.3956 ppm	0.0027 ppm	0.0249 ppm	0.9748 ppm	0.0020 ppm	0.0421 ppm
Concentration per Run 1	0.0011 ppm	2.3954 ppm	0.0025 ppm	0.0256 ppm	0.9714 ppm	0.0018 ppm	0.0420 ppm
Concentration per Run 2	0.0011 ppm	2.3873 ppm	0.0032 ppm	0.0246 ppm	0.9773 ppm	0.0026 ppm	0.0422 ppm
Concentration per Run 3	0.0026 ppm	2.4040 ppm	0.0025 ppm	0.0245 ppm	0.9757 ppm	0.0016 ppm	0.0420 ppm
Concentration RSD	53.8 %	0.3 %	15.7 %	2.4 %	0.3 %	26.8 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0912 ppm	107.7197 %	107.3504 %	108.6417 %	103.8736 %	100.6267 %	100.7479 %
Concentration per Run 1	0.0911 ppm	105.4594 %	107.3849 %	108.9042 %	101.5450 %	101.0854 %	100.6502 %
Concentration per Run 2	0.0912 ppm	109.4557 %	107.2755 %	108.9228 %	105.2972 %	100.8443 %	100.6054 %
Concentration per Run 3	0.0915 ppm	108.2440 %	107.3909 %	108.0982 %	104.7785 %	99.9503 %	100.9882 %
Concentration RSD	0.2 %	1.9 %	0.1 %	0.4 %	2.0 %	0.6 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453345-08D2 WG1974088
Analysis started at: 9/24/2024 4:30:32 PM
Comments <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	11.9023 ppm	0.0208 ppm	0.0094 ppm	0.0266 ppm	0.0008 ppm	6.0980 ppm
Concentration per Run 1	0.0004 ppm	11.8716 ppm	0.0206 ppm	0.0099 ppm	0.0264 ppm	0.0008 ppm	6.0882 ppm
Concentration per Run 2	0.0004 ppm	12.2181 ppm	0.0199 ppm	0.0090 ppm	0.0274 ppm	0.0007 ppm	6.2540 ppm
Concentration per Run 3	0.0005 ppm	11.6172 ppm	0.0220 ppm	0.0093 ppm	0.0259 ppm	0.0008 ppm	5.9518 ppm
Concentration RSD	11.2 %	2.5 %	5.0 %	4.7 %	2.9 %	3.1 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0008 ppm	0.0090 ppm	0.0357 ppm	0.0109 ppm	21.7153 ppm	1.5899 ppm	0.0235 ppm
Concentration per Run 1	0.0008 ppm	0.0091 ppm	0.0361 ppm	0.0112 ppm	21.6334 ppm	1.5870 ppm	0.0218 ppm
Concentration per Run 2	0.0009 ppm	0.0089 ppm	0.0364 ppm	0.0110 ppm	22.2689 ppm	1.6588 ppm	0.0248 ppm
Concentration per Run 3	0.0008 ppm	0.0092 ppm	0.0345 ppm	0.0105 ppm	21.2436 ppm	1.5239 ppm	0.0240 ppm
Concentration RSD	2.4 %	1.6 %	2.8 %	3.3 %	2.4 %	4.2 %	6.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.4831 ppm	0.1973 ppm	0.0014 ppm	0.2922 ppm	0.0219 ppm	0.0094 ppm	0.0028 ppm
Concentration per Run 1	5.5269 ppm	0.1967 ppm	0.0013 ppm	0.2760 ppm	0.0221 ppm	0.0094 ppm	0.0026 ppm
Concentration per Run 2	5.5226 ppm	0.2020 ppm	0.0016 ppm	0.3185 ppm	0.0217 ppm	0.0090 ppm	0.0032 ppm
Concentration per Run 3	5.3999 ppm	0.1933 ppm	0.0013 ppm	0.2819 ppm	0.0220 ppm	0.0098 ppm	0.0026 ppm
Concentration RSD	1.3 %	2.2 %	13.4 %	7.9 %	0.8 %	4.1 %	13.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	2.2636 ppm	0.0021 ppm	0.0260 ppm	0.9161 ppm	0.0010 ppm	0.0405 ppm
Concentration per Run 1	0.0010 ppm	2.2686 ppm	0.0028 ppm	0.0260 ppm	0.9244 ppm	0.0009 ppm	0.0406 ppm
Concentration per Run 2	0.0006 ppm	2.2629 ppm	0.0016 ppm	0.0267 ppm	0.9221 ppm	0.0018 ppm	0.0409 ppm
Concentration per Run 3	0.0014 ppm	2.2592 ppm	0.0019 ppm	0.0254 ppm	0.9018 ppm	0.0002 ppm	0.0400 ppm
Concentration RSD	42.2 %	0.2 %	30.0 %	2.4 %	1.4 %	85.6 %	1.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1975 ppm	100.8079 %	105.4085 %	106.9695 %	96.8589 %	99.4413 %	98.9029 %
Concentration per Run 1	0.1976 ppm	101.5761 %	104.8962 %	107.2056 %	97.0072 %	99.4605 %	98.3132 %
Concentration per Run 2	0.1975 ppm	98.2392 %	104.6692 %	106.7000 %	94.8517 %	99.3895 %	98.1121 %
Concentration per Run 3	0.1974 ppm	102.6085 %	106.6600 %	107.0028 %	98.7179 %	99.4738 %	100.2834 %
Concentration RSD	0.1 %	2.3 %	1.0 %	0.2 %	2.0 %	0.0 %	1.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 4:36:44 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5262 ppm	0.4811 ppm	0.5005 ppm	0.5018 ppm	0.4741 ppm	0.4961 ppm	0.4777 ppm
Concentration per Run 1	0.5322 ppm	0.4804 ppm	0.4996 ppm	0.5002 ppm	0.4909 ppm	0.5132 ppm	0.4932 ppm
Concentration per Run 2	0.5294 ppm	0.4956 ppm	0.5019 ppm	0.5027 ppm	0.4679 ppm	0.4901 ppm	0.4767 ppm
Concentration per Run 3	0.5171 ppm	0.4675 ppm	0.4999 ppm	0.5025 ppm	0.4634 ppm	0.4852 ppm	0.4633 ppm
Recovery Percentage 1	105.245 %	96.230 %	100.094 %	100.364 %	94.813 %	99.229 %	95.543 %
Concentration RSD	1.5 %	2.9 %	0.2 %	0.3 %	3.1 %	3.0 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4950 ppm	0.5049 ppm	0.5093 ppm	0.4913 ppm	0.4954 ppm	5.0877 ppm	0.4873 ppm
Concentration per Run 1	0.4937 ppm	0.5037 ppm	0.5155 ppm	0.4945 ppm	0.5167 ppm	5.2310 ppm	0.5022 ppm
Concentration per Run 2	0.4958 ppm	0.5054 ppm	0.5110 ppm	0.4942 ppm	0.4866 ppm	5.0635 ppm	0.4833 ppm
Concentration per Run 3	0.4954 ppm	0.5055 ppm	0.5012 ppm	0.4853 ppm	0.4829 ppm	4.9685 ppm	0.4765 ppm
Recovery Percentage 1	98.991 %	100.973 %	101.854 %	98.267 %	99.077 %	101.753 %	97.466 %
Concentration RSD	0.2 %	0.2 %	1.4 %	1.1 %	3.7 %	2.6 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5155 ppm	0.4849 ppm	0.4881 ppm	10.3922 ppm	0.5118 ppm	0.5139 ppm	0.5095 ppm
Concentration per Run 1	0.5207 ppm	0.5003 ppm	0.4833 ppm	10.7007 ppm	0.5114 ppm	0.5145 ppm	0.5081 ppm
Concentration per Run 2	0.5173 ppm	0.4799 ppm	0.4883 ppm	10.3573 ppm	0.5123 ppm	0.5128 ppm	0.5093 ppm
Concentration per Run 3	0.5087 ppm	0.4744 ppm	0.4926 ppm	10.1185 ppm	0.5116 ppm	0.5143 ppm	0.5111 ppm
Recovery Percentage 1	103.107 %	96.972 %	97.616 %	103.922 %	102.360 %	102.779 %	101.899 %
Concentration RSD	1.2 %	2.8 %	1.0 %	2.8 %	0.1 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5177 ppm	5.6025 ppm	0.4830 ppm	0.4607 ppm	0.5125 ppm	0.5013 ppm	0.4949 ppm
Concentration per Run 1	0.5144 ppm	5.5919 ppm	0.4824 ppm	0.4758 ppm	0.5170 ppm	0.5028 ppm	0.5000 ppm
Concentration per Run 2	0.5216 ppm	5.6026 ppm	0.4834 ppm	0.4553 ppm	0.5153 ppm	0.5006 ppm	0.4962 ppm
Concentration per Run 3	0.5172 ppm	5.6128 ppm	0.4831 ppm	0.4509 ppm	0.5052 ppm	0.5007 ppm	0.4884 ppm
Recovery Percentage 1	103.550 %	106.713 %	96.593 %	92.132 %	102.499 %	100.270 %	98.979 %
Concentration RSD	0.7 %	0.2 %	0.1 %	2.9 %	1.2 %	0.2 %	1.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5070 ppm	97.1074 %	97.5179 %	98.2442 %	100.3587 %	99.3849 %	98.1512 %
Concentration per Run 1	0.5060 ppm	93.9936 %	96.8369 %	98.1112 %	97.6097 %	99.3029 %	97.3869 %
Concentration per Run 2	0.5075 ppm	97.5437 %	97.5340 %	98.1635 %	99.9746 %	99.2667 %	97.9785 %
Concentration per Run 3	0.5074 ppm	99.7850 %	98.1828 %	98.4580 %	103.4918 %	99.5849 %	99.0882 %
Recovery Percentage 1	101.398 %						
Concentration RSD	0.2 %	3.0 %	0.7 %	0.2 %	2.9 %	0.2 %	0.9 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 4:42:47 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0029 ppm	0.0006 ppm	0.0012 ppm	0.0005 ppm	0.0006 ppm	-0.0015 ppm
Concentration per Run 1	0.0006 ppm	-0.0092 ppm	-0.0004 ppm	0.0017 ppm	0.0007 ppm	0.0008 ppm	-0.0051 ppm
Concentration per Run 2	0.0001 ppm	0.0013 ppm	0.0004 ppm	0.0011 ppm	0.0004 ppm	0.0005 ppm	-0.0009 ppm
Concentration per Run 3	0.0007 ppm	-0.0009 ppm	0.0018 ppm	0.0008 ppm	0.0003 ppm	0.0003 ppm	0.0014 ppm
Recovery Percentage 1	7.045 %	-2.937 %	11.679 %	3.966 %	4.538 %	11.087 %	-1.544 %
Concentration RSD	63.9 %	188.7 %	191.7 %	37.0 %	42.0 %	45.9 %	215.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0009 ppm	0.0044 ppm	0.0023 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0048 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0012 ppm	0.0042 ppm	0.0104 ppm	0.0008 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0041 ppm	-0.0035 ppm	-0.0019 ppm
Recovery Percentage 1	1.673 %	-0.451 %	0.993 %	8.839 %	8.770 %	0.092 %	7.539 %
Concentration RSD	53.9 %	98.8 %	411.9 %	32.2 %	8.9 %	315.8 %	345.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0006 ppm	0.0007 ppm	0.0021 ppm	-0.0071 ppm	0.0003 ppm	-0.0005 ppm	0.0019 ppm
Concentration per Run 1	-0.0014 ppm	0.0010 ppm	0.0023 ppm	0.0063 ppm	0.0000 ppm	-0.0001 ppm	0.0025 ppm
Concentration per Run 2	-0.0005 ppm	0.0008 ppm	0.0024 ppm	-0.0111 ppm	0.0006 ppm	-0.0013 ppm	0.0031 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0018 ppm	-0.0164 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	-0.609 %	7.357 %	4.268 %	-0.353 %	1.244 %	-4.990 %	3.874 %
Concentration RSD	122.8 %	39.2 %	14.1 %	167.7 %	92.2 %	140.5 %	80.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	0.0018 ppm	0.0002 ppm	0.0006 ppm	0.0005 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	0.0029 ppm	0.0025 ppm	-0.0004 ppm	0.0010 ppm	0.0001 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 2	-0.0005 ppm	0.0025 ppm	0.0006 ppm	0.0005 ppm	0.0006 ppm	0.0006 ppm	0.0006 ppm
Concentration per Run 3	0.0010 ppm	0.0005 ppm	0.0002 ppm	0.0005 ppm	0.0007 ppm	0.0007 ppm	0.0001 ppm
Recovery Percentage 1	11.620 %	0.364 %	0.329 %	6.460 %	4.542 %	3.647 %	2.026 %
Concentration RSD	145.9 %	62.7 %	302.5 %	42.1 %	69.7 %	25.6 %	163.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	92.1748 %	97.3531 %	98.0821 %	88.8937 %	97.7022 %	95.4157 %
Concentration per Run 1	0.0002 ppm	88.0500 %	97.0587 %	98.0210 %	83.8120 %	97.3939 %	95.1718 %
Concentration per Run 2	0.0000 ppm	92.2536 %	97.6916 %	98.3097 %	89.1492 %	98.0367 %	95.6118 %
Concentration per Run 3	0.0001 ppm	96.2206 %	97.3089 %	97.9157 %	93.7197 %	97.6761 %	95.4635 %
Recovery Percentage 1	1.404 %						
Concentration RSD	155.1 %	4.4 %	0.3 %	0.2 %	5.6 %	0.3 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-1 WG1974264
Analysis started at: 9/24/2024 4:51:09 PM
Comments <Comment>
Rack: 1
Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0010 ppm	-0.0013 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	0.0224 ppm
Concentration per Run 1	0.0004 ppm	-0.0029 ppm	0.0006 ppm	0.0014 ppm	-0.0003 ppm	0.0000 ppm	0.0240 ppm
Concentration per Run 2	-0.0001 ppm	0.0015 ppm	-0.0019 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0278 ppm
Concentration per Run 3	0.0006 ppm	0.0043 ppm	-0.0028 ppm	0.0016 ppm	0.0002 ppm	-0.0001 ppm	0.0154 ppm
Recovery Percentage 1	4.445 %	0.956 %	-26.983 %	4.579 %	-0.725 %	-0.856 %	22.375 %
Concentration RSD	112.8 %	378.0 %	132.5 %	15.7 %	318.9 %	125.8 %	28.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0011 ppm	0.0007 ppm	0.0028 ppm	-0.0221 ppm	-0.0020 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0012 ppm	0.0005 ppm	0.0053 ppm	-0.0210 ppm	-0.0027 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0010 ppm	0.0009 ppm	0.0006 ppm	-0.0416 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0012 ppm	0.0008 ppm	0.0025 ppm	-0.0038 ppm	-0.0024 ppm
Recovery Percentage 1	0.172 %	-1.217 %	-11.216 %	7.168 %	5.588 %	-0.885 %	-19.594 %
Concentration RSD	337.2 %	82.4 %	10.2 %	26.3 %	83.6 %	85.6 %	49.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0014 ppm	0.0001 ppm	0.0008 ppm	0.0185 ppm	0.0000 ppm	-0.0011 ppm	0.0019 ppm
Concentration per Run 1	0.0017 ppm	-0.0001 ppm	0.0009 ppm	0.0233 ppm	-0.0001 ppm	-0.0014 ppm	0.0029 ppm
Concentration per Run 2	0.0010 ppm	0.0001 ppm	0.0007 ppm	0.0155 ppm	0.0001 ppm	-0.0009 ppm	-0.0003 ppm
Concentration per Run 3	0.0016 ppm	0.0003 ppm	0.0008 ppm	0.0167 ppm	-0.0001 ppm	-0.0011 ppm	0.0032 ppm
Recovery Percentage 1	1.415 %	1.005 %	1.592 %	0.927 %	-0.101 %	-11.086 %	3.878 %
Concentration RSD	27.3 %	240.6 %	14.2 %	22.7 %	545.3 %	22.2 %	99.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0037 ppm	0.0091 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 1	0.0033 ppm	0.0089 ppm	0.0003 ppm	-0.0002 ppm	0.0006 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 2	0.0040 ppm	0.0096 ppm	-0.0001 ppm	0.0002 ppm	0.0004 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 3	0.0038 ppm	0.0089 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0012 ppm	0.0002 ppm
Recovery Percentage 1	37.033 %	1.823 %	0.316 %	0.468 %	3.557 %	-4.787 %	2.887 %
Concentration RSD	10.9 %	4.7 %	150.2 %	373.3 %	72.3 %	30.9 %	24.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0030 ppm	93.7717 %	97.6619 %	98.7534 %	105.0823 %	96.5884 %	97.6413 %
Concentration per Run 1	0.0030 ppm	86.1048 %	97.1241 %	98.1460 %	104.0652 %	96.2054 %	97.3867 %
Concentration per Run 2	0.0030 ppm	96.0173 %	97.3001 %	98.4624 %	104.9418 %	95.9737 %	97.1889 %
Concentration per Run 3	0.0031 ppm	99.1930 %	98.5615 %	99.6517 %	106.2399 %	97.5861 %	98.3483 %
Recovery Percentage 1	60.883 %						
Concentration RSD	0.9 %	7.3 %	0.8 %	0.8 %	1.0 %	0.9 %	0.6 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-2 WG1974264
Analysis started at: 9/24/2024 4:57:26 PM
Comments <Comment>
Rack: 1
Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0533 ppm	1.9476 ppm	0.1167 ppm	0.9383 ppm	1.9377 ppm	0.0515 ppm	9.5855 ppm
Concentration per Run 1	0.0527 ppm	2.0480 ppm	0.1163 ppm	0.9369 ppm	2.0340 ppm	0.0540 ppm	10.0647 ppm
Concentration per Run 2	0.0540 ppm	1.9284 ppm	0.1187 ppm	0.9379 ppm	1.9255 ppm	0.0512 ppm	9.5319 ppm
Concentration per Run 3	0.0533 ppm	1.8662 ppm	0.1150 ppm	0.9402 ppm	1.8538 ppm	0.0493 ppm	9.1600 ppm
Concentration RSD	1.3 %	4.7 %	1.6 %	0.2 %	4.7 %	4.6 %	4.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0508 ppm	0.4852 ppm	0.1982 ppm	0.2481 ppm	1.0071 ppm	10.2193 ppm	-0.0025 ppm
Concentration per Run 1	0.0508 ppm	0.4850 ppm	0.1979 ppm	0.2491 ppm	1.0511 ppm	10.7898 ppm	-0.0001 ppm
Concentration per Run 2	0.0507 ppm	0.4851 ppm	0.1986 ppm	0.2474 ppm	1.0025 ppm	10.1589 ppm	-0.0025 ppm
Concentration per Run 3	0.0509 ppm	0.4854 ppm	0.1981 ppm	0.2477 ppm	0.9677 ppm	9.7092 ppm	-0.0048 ppm
Concentration RSD	0.2 %	0.0 %	0.2 %	0.4 %	4.2 %	5.3 %	95.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	9.7221 ppm	0.5059 ppm	0.9735 ppm	10.2828 ppm	0.4974 ppm	0.5305 ppm	0.4973 ppm
Concentration per Run 1	9.7460 ppm	0.5302 ppm	0.9710 ppm	10.6240 ppm	0.4965 ppm	0.5296 ppm	0.4949 ppm
Concentration per Run 2	9.7095 ppm	0.5034 ppm	0.9747 ppm	10.2756 ppm	0.4978 ppm	0.5310 ppm	0.4974 ppm
Concentration per Run 3	9.7108 ppm	0.4840 ppm	0.9750 ppm	9.9489 ppm	0.4980 ppm	0.5311 ppm	0.4995 ppm
Concentration RSD	0.2 %	4.6 %	0.2 %	3.3 %	0.2 %	0.2 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1163 ppm	0.6015 ppm	0.9442 ppm	0.9329 ppm	0.9905 ppm	0.1145 ppm	0.4928 ppm
Concentration per Run 1	0.1160 ppm	0.6004 ppm	0.9411 ppm	0.9782 ppm	0.9922 ppm	0.1154 ppm	0.4935 ppm
Concentration per Run 2	0.1135 ppm	0.6029 ppm	0.9454 ppm	0.9282 ppm	0.9902 ppm	0.1140 ppm	0.4919 ppm
Concentration per Run 3	0.1192 ppm	0.6013 ppm	0.9461 ppm	0.8923 ppm	0.9890 ppm	0.1139 ppm	0.4929 ppm
Concentration RSD	2.5 %	0.2 %	0.3 %	4.6 %	0.2 %	0.7 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4889 ppm	90.7466 %	95.6671 %	96.4899 %	95.8113 %	95.8698 %	96.1180 %
Concentration per Run 1	0.4886 ppm	86.3463 %	95.4573 %	96.3198 %	92.7279 %	96.0389 %	95.8897 %
Concentration per Run 2	0.4887 ppm	91.4665 %	95.8068 %	96.4529 %	95.9781 %	95.8129 %	96.2362 %
Concentration per Run 3	0.4895 ppm	94.4269 %	95.7373 %	96.6971 %	98.7280 %	95.7576 %	96.2282 %
Concentration RSD	0.1 %	4.5 %	0.2 %	0.2 %	3.1 %	0.2 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453404-16 WG1974264
Analysis started at: 9/24/2024 5:03:33 PM
Comments <Comment>
Rack: 1
Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0278 ppm	0.0023 ppm	0.0182 ppm	0.0319 ppm	0.0000 ppm	176.6270 ppm
Concentration per Run 1	0.0000 ppm	0.0291 ppm	0.0039 ppm	0.0183 ppm	0.0319 ppm	0.0000 ppm	176.4595 ppm
Concentration per Run 2	-0.0002 ppm	0.0283 ppm	0.0015 ppm	0.0181 ppm	0.0324 ppm	0.0000 ppm	179.1222 ppm
Concentration per Run 3	-0.0010 ppm	0.0259 ppm	0.0016 ppm	0.0181 ppm	0.0314 ppm	0.0001 ppm	174.2992 ppm
Concentration RSD	136.3 %	6.1 %	58.9 %	0.7 %	1.5 %	81.1 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0013 ppm	0.0075 ppm	-0.0001 ppm	0.0025 ppm	0.2803 ppm	0.4415 ppm	-0.0050 ppm
Concentration per Run 1	0.0013 ppm	0.0074 ppm	0.0003 ppm	0.0024 ppm	0.2763 ppm	0.4551 ppm	-0.0066 ppm
Concentration per Run 2	0.0013 ppm	0.0076 ppm	-0.0001 ppm	0.0022 ppm	0.2863 ppm	0.4253 ppm	-0.0033 ppm
Concentration per Run 3	0.0013 ppm	0.0077 ppm	-0.0005 ppm	0.0029 ppm	0.2784 ppm	0.4441 ppm	-0.0050 ppm
Concentration RSD	3.8 %	2.1 %	375.4 %	14.9 %	1.9 %	3.4 %	32.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.8799 ppm	0.4126 ppm	0.0029 ppm	2.2920 ppm	0.0093 ppm	0.0467 ppm	0.0017 ppm
Concentration per Run 1	1.8778 ppm	0.4110 ppm	0.0029 ppm	2.2678 ppm	0.0096 ppm	0.0464 ppm	0.0008 ppm
Concentration per Run 2	1.8853 ppm	0.4187 ppm	0.0031 ppm	2.3222 ppm	0.0091 ppm	0.0464 ppm	0.0021 ppm
Concentration per Run 3	1.8768 ppm	0.4080 ppm	0.0029 ppm	2.2860 ppm	0.0091 ppm	0.0474 ppm	0.0021 ppm
Concentration RSD	0.2 %	1.3 %	3.4 %	1.2 %	2.9 %	1.2 %	43.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0031 ppm	0.5350 ppm	-0.0001 ppm	0.3721 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	0.0044 ppm	0.5350 ppm	0.0002 ppm	0.3718 ppm	0.0000 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 2	0.0014 ppm	0.5365 ppm	0.0000 ppm	0.3768 ppm	0.0003 ppm	0.0013 ppm	0.0003 ppm
Concentration per Run 3	0.0036 ppm	0.5334 ppm	-0.0006 ppm	0.3678 ppm	0.0003 ppm	-0.0003 ppm	0.0008 ppm
Concentration RSD	49.3 %	0.3 %	364.0 %	1.2 %	99.8 %	2,115.0 %	43.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0307 ppm	92.1859 %	93.9249 %	93.7256 %	96.9028 %	90.3072 %	94.0711 %
Concentration per Run 1	0.0307 ppm	92.2124 %	93.8800 %	93.7658 %	97.1810 %	90.2530 %	94.0316 %
Concentration per Run 2	0.0309 ppm	91.2501 %	93.7023 %	93.7709 %	96.3818 %	90.0676 %	93.6544 %
Concentration per Run 3	0.0307 ppm	93.0951 %	94.1922 %	93.6403 %	97.1455 %	90.6009 %	94.5272 %
Concentration RSD	0.4 %	1.0 %	0.3 %	0.1 %	0.5 %	0.3 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453422-15 WG1974264
Analysis started at: 9/24/2024 5:09:44 PM
Comments <Comment>
Rack: 1
Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0370 ppm	0.0002 ppm	0.0099 ppm	0.0392 ppm	0.0000 ppm	157.4353 ppm
Concentration per Run 1	0.0003 ppm	0.0375 ppm	-0.0016 ppm	0.0100 ppm	0.0412 ppm	0.0000 ppm	165.1487 ppm
Concentration per Run 2	0.0000 ppm	0.0413 ppm	-0.0001 ppm	0.0098 ppm	0.0386 ppm	0.0000 ppm	155.1127 ppm
Concentration per Run 3	-0.0006 ppm	0.0321 ppm	0.0022 ppm	0.0098 ppm	0.0378 ppm	0.0001 ppm	152.0444 ppm
Concentration RSD	412.4 %	12.5 %	1,100.7 %	1.6 %	4.5 %	234.0 %	4.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0020 ppm	-0.0003 ppm	0.0029 ppm	0.0287 ppm	0.2492 ppm	-0.0035 ppm
Concentration per Run 1	0.0004 ppm	0.0020 ppm	-0.0003 ppm	0.0030 ppm	0.0322 ppm	0.2958 ppm	-0.0033 ppm
Concentration per Run 2	0.0004 ppm	0.0019 ppm	0.0000 ppm	0.0028 ppm	0.0277 ppm	0.2154 ppm	-0.0049 ppm
Concentration per Run 3	0.0004 ppm	0.0021 ppm	-0.0007 ppm	0.0031 ppm	0.0262 ppm	0.2363 ppm	-0.0023 ppm
Concentration RSD	4.0 %	3.3 %	105.3 %	5.0 %	10.8 %	16.7 %	36.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.9381 ppm	0.1800 ppm	0.0008 ppm	0.8031 ppm	0.0018 ppm	0.0103 ppm	0.0006 ppm
Concentration per Run 1	0.9393 ppm	0.1885 ppm	0.0008 ppm	0.8215 ppm	0.0020 ppm	0.0096 ppm	0.0002 ppm
Concentration per Run 2	0.9477 ppm	0.1775 ppm	0.0007 ppm	0.8105 ppm	0.0014 ppm	0.0110 ppm	-0.0002 ppm
Concentration per Run 3	0.9272 ppm	0.1741 ppm	0.0008 ppm	0.7774 ppm	0.0019 ppm	0.0102 ppm	0.0018 ppm
Concentration RSD	1.1 %	4.2 %	9.5 %	2.9 %	19.4 %	6.6 %	175.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0026 ppm	0.4549 ppm	-0.0006 ppm	0.3368 ppm	-0.0001 ppm	-0.0008 ppm	0.0005 ppm
Concentration per Run 1	0.0020 ppm	0.4567 ppm	-0.0009 ppm	0.3537 ppm	-0.0001 ppm	-0.0010 ppm	0.0004 ppm
Concentration per Run 2	0.0031 ppm	0.4523 ppm	0.0001 ppm	0.3314 ppm	-0.0002 ppm	-0.0007 ppm	0.0005 ppm
Concentration per Run 3	0.0027 ppm	0.4556 ppm	-0.0009 ppm	0.3253 ppm	0.0001 ppm	-0.0007 ppm	0.0005 ppm
Concentration RSD	22.1 %	0.5 %	95.9 %	4.4 %	197.6 %	19.9 %	18.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0140 ppm	91.4888 %	94.3630 %	94.6082 %	96.9834 %	91.4880 %	95.0430 %
Concentration per Run 1	0.0142 ppm	87.4563 %	94.3907 %	94.3082 %	94.2376 %	91.2793 %	94.9822 %
Concentration per Run 2	0.0139 ppm	93.1327 %	93.6020 %	94.9032 %	97.8698 %	91.7354 %	94.2702 %
Concentration per Run 3	0.0140 ppm	93.8773 %	95.0963 %	94.6133 %	98.8428 %	91.4491 %	95.8767 %
Concentration RSD	1.1 %	3.8 %	0.8 %	0.3 %	2.5 %	0.3 %	0.8 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453167-03 WG1974264
Analysis started at: 9/24/2024 5:15:55 PM
Comments <Comment>
Rack: 1
Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0023 ppm	0.5231 ppm	0.0006 ppm	0.8002 ppm	0.0974 ppm	0.0001 ppm	47.7701 ppm
Concentration per Run 1	0.0023 ppm	0.5378 ppm	0.0011 ppm	0.8021 ppm	0.0982 ppm	0.0000 ppm	48.2146 ppm
Concentration per Run 2	0.0024 ppm	0.5217 ppm	0.0008 ppm	0.7985 ppm	0.0979 ppm	0.0001 ppm	47.9886 ppm
Concentration per Run 3	0.0021 ppm	0.5097 ppm	0.0000 ppm	0.8001 ppm	0.0961 ppm	0.0000 ppm	47.1072 ppm
Concentration RSD	6.4 %	2.7 %	89.2 %	0.2 %	1.2 %	33.4 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0652 ppm	0.0758 ppm	0.0647 ppm	-0.0061 ppm	116.3141 ppm	22.3407 ppm	0.1096 ppm
Concentration per Run 1	0.0654 ppm	0.0760 ppm	0.0651 ppm	-0.0058 ppm	117.1900 ppm	22.5067 ppm	0.1121 ppm
Concentration per Run 2	0.0650 ppm	0.0755 ppm	0.0644 ppm	-0.0063 ppm	117.0270 ppm	22.5283 ppm	0.1094 ppm
Concentration per Run 3	0.0653 ppm	0.0757 ppm	0.0647 ppm	-0.0062 ppm	114.7254 ppm	21.9871 ppm	0.1072 ppm
Concentration RSD	0.3 %	0.3 %	0.6 %	4.3 %	1.2 %	1.4 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.2921 ppm	1.0948 ppm	0.0684 ppm	9.7218 ppm	0.9732 ppm	0.0022 ppm	-0.0008 ppm
Concentration per Run 1	3.2879 ppm	1.1029 ppm	0.0683 ppm	9.6462 ppm	0.9774 ppm	0.0019 ppm	-0.0009 ppm
Concentration per Run 2	3.2891 ppm	1.1037 ppm	0.0683 ppm	9.8362 ppm	0.9695 ppm	0.0029 ppm	0.0003 ppm
Concentration per Run 3	3.2994 ppm	1.0777 ppm	0.0686 ppm	9.6829 ppm	0.9728 ppm	0.0018 ppm	-0.0019 ppm
Concentration RSD	0.2 %	1.4 %	0.3 %	1.0 %	0.4 %	27.2 %	127.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0037 ppm	4.8804 ppm	0.0020 ppm	0.1408 ppm	0.0024 ppm	0.0007 ppm	0.0080 ppm
Concentration per Run 1	0.0048 ppm	4.9015 ppm	0.0025 ppm	0.1417 ppm	0.0026 ppm	0.0004 ppm	0.0077 ppm
Concentration per Run 2	0.0021 ppm	4.8678 ppm	0.0016 ppm	0.1420 ppm	0.0021 ppm	0.0014 ppm	0.0082 ppm
Concentration per Run 3	0.0043 ppm	4.8718 ppm	0.0021 ppm	0.1388 ppm	0.0024 ppm	0.0004 ppm	0.0080 ppm
Concentration RSD	39.0 %	0.4 %	21.7 %	1.3 %	9.3 %	79.5 %	3.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	50.4162 ppm	90.6382 %	94.1266 %	94.2781 %	100.4327 %	93.1431 %	97.0826 %
Concentration per Run 1	50.7401 ppm	89.3970 %	93.7943 %	94.3365 %	100.7516 %	92.9739 %	96.8357 %
Concentration per Run 2	50.1730 ppm	89.9465 %	94.4543 %	94.1131 %	98.9849 %	93.2065 %	97.4890 %
Concentration per Run 3	50.3356 ppm	92.5711 %	94.1311 %	94.3847 %	101.5616 %	93.2488 %	96.9232 %
Concentration RSD	0.6 %	1.9 %	0.4 %	0.2 %	1.3 %	0.2 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-3 WG1974264
Analysis started at: 9/24/2024 5:22:13 PM
Comments <Comment>
Rack: 1
Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0528 ppm	2.3380 ppm	0.1176 ppm	1.7106 ppm	1.9254 ppm	0.0481 ppm	55.0472 ppm
Concentration per Run 1	0.0528 ppm	2.3854 ppm	0.1182 ppm	1.7130 ppm	1.9741 ppm	0.0494 ppm	56.4629 ppm
Concentration per Run 2	0.0528 ppm	2.3454 ppm	0.1176 ppm	1.7055 ppm	1.9265 ppm	0.0480 ppm	55.0706 ppm
Concentration per Run 3	0.0529 ppm	2.2831 ppm	0.1170 ppm	1.7132 ppm	1.8758 ppm	0.0468 ppm	53.6080 ppm
Concentration RSD	0.2 %	2.2 %	0.5 %	0.3 %	2.6 %	2.7 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.1130 ppm	0.5450 ppm	0.2496 ppm	0.2368 ppm	112.7098 ppm	30.9482 ppm	0.1040 ppm
Concentration per Run 1	0.1133 ppm	0.5463 ppm	0.2477 ppm	0.2352 ppm	115.4039 ppm	31.8441 ppm	0.1061 ppm
Concentration per Run 2	0.1126 ppm	0.5434 ppm	0.2486 ppm	0.2362 ppm	112.8120 ppm	30.8962 ppm	0.1034 ppm
Concentration per Run 3	0.1131 ppm	0.5454 ppm	0.2524 ppm	0.2389 ppm	109.9134 ppm	30.1042 ppm	0.1025 ppm
Concentration RSD	0.3 %	0.3 %	1.0 %	0.8 %	2.4 %	2.8 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.1334 ppm	1.5108 ppm	1.0433 ppm	18.9679 ppm	1.4163 ppm	0.5124 ppm	0.4842 ppm
Concentration per Run 1	12.0544 ppm	1.5491 ppm	1.0425 ppm	19.1576 ppm	1.4212 ppm	0.5142 ppm	0.4852 ppm
Concentration per Run 2	12.1216 ppm	1.5118 ppm	1.0415 ppm	19.0154 ppm	1.4128 ppm	0.5106 ppm	0.4808 ppm
Concentration per Run 3	12.2241 ppm	1.4715 ppm	1.0457 ppm	18.7306 ppm	1.4149 ppm	0.5125 ppm	0.4865 ppm
Concentration RSD	0.7 %	2.6 %	0.2 %	1.1 %	0.3 %	0.3 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1169 ppm	5.3517 ppm	0.9185 ppm	1.0147 ppm	0.9471 ppm	0.1138 ppm	0.4771 ppm
Concentration per Run 1	0.1190 ppm	5.3667 ppm	0.9219 ppm	1.0396 ppm	0.9428 ppm	0.1134 ppm	0.4751 ppm
Concentration per Run 2	0.1180 ppm	5.3357 ppm	0.9165 ppm	1.0152 ppm	0.9446 ppm	0.1133 ppm	0.4749 ppm
Concentration per Run 3	0.1137 ppm	5.3527 ppm	0.9172 ppm	0.9892 ppm	0.9539 ppm	0.1147 ppm	0.4812 ppm
Concentration RSD	2.4 %	0.3 %	0.3 %	2.5 %	0.6 %	0.7 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	49.2392 ppm	92.7547 %	93.9310 %	93.6965 %	100.9020 %	93.0230 %	96.7796 %
Concentration per Run 1	49.4556 ppm	90.4698 %	94.2045 %	93.3929 %	99.9322 %	92.7098 %	97.0428 %
Concentration per Run 2	49.2368 ppm	92.8752 %	93.9954 %	93.6958 %	100.8150 %	93.1352 %	96.8178 %
Concentration per Run 3	49.0251 ppm	94.9190 %	93.5930 %	94.0007 %	101.9588 %	93.2239 %	96.4781 %
Concentration RSD	0.4 %	2.4 %	0.3 %	0.3 %	1.0 %	0.3 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-4 WG1974264
Analysis started at: 9/24/2024 5:28:27 PM
Comments <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0018 ppm	0.5223 ppm	0.0008 ppm	0.8195 ppm	0.0983 ppm	0.0001 ppm	47.5785 ppm
Concentration per Run 1	0.0017 ppm	0.5213 ppm	0.0028 ppm	0.8224 ppm	0.0986 ppm	0.0001 ppm	47.7420 ppm
Concentration per Run 2	0.0016 ppm	0.5240 ppm	-0.0010 ppm	0.8175 ppm	0.0986 ppm	0.0001 ppm	47.8743 ppm
Concentration per Run 3	0.0022 ppm	0.5215 ppm	0.0005 ppm	0.8186 ppm	0.0977 ppm	0.0001 ppm	47.1192 ppm
Concentration RSD	17.4 %	0.3 %	245.6 %	0.3 %	0.5 %	16.2 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0677 ppm	0.0782 ppm	0.0673 ppm	-0.0064 ppm	116.0178 ppm	22.3393 ppm	0.1107 ppm
Concentration per Run 1	0.0679 ppm	0.0782 ppm	0.0674 ppm	-0.0064 ppm	116.5146 ppm	22.4275 ppm	0.1102 ppm
Concentration per Run 2	0.0675 ppm	0.0780 ppm	0.0673 ppm	-0.0062 ppm	118.7473 ppm	22.4596 ppm	0.1101 ppm
Concentration per Run 3	0.0678 ppm	0.0783 ppm	0.0674 ppm	-0.0066 ppm	112.7914 ppm	22.1308 ppm	0.1118 ppm
Concentration RSD	0.3 %	0.2 %	0.1 %	2.6 %	2.6 %	0.8 %	0.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.4036 ppm	1.0899 ppm	0.0723 ppm	10.0718 ppm	1.0005 ppm	0.0016 ppm	-0.0004 ppm
Concentration per Run 1	3.4111 ppm	1.0913 ppm	0.0727 ppm	10.0003 ppm	1.0027 ppm	0.0020 ppm	-0.0025 ppm
Concentration per Run 2	3.3994 ppm	1.0986 ppm	0.0721 ppm	10.2125 ppm	0.9998 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	3.4002 ppm	1.0799 ppm	0.0723 ppm	10.0027 ppm	0.9991 ppm	0.0020 ppm	0.0008 ppm
Concentration RSD	0.2 %	0.9 %	0.4 %	1.2 %	0.2 %	43.7 %	521.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0032 ppm	4.9782 ppm	0.0022 ppm	0.1409 ppm	0.0030 ppm	0.0003 ppm	0.0085 ppm
Concentration per Run 1	0.0058 ppm	4.9907 ppm	0.0024 ppm	0.1406 ppm	0.0029 ppm	0.0007 ppm	0.0084 ppm
Concentration per Run 2	-0.0001 ppm	4.9723 ppm	0.0025 ppm	0.1419 ppm	0.0033 ppm	0.0011 ppm	0.0086 ppm
Concentration per Run 3	0.0038 ppm	4.9717 ppm	0.0019 ppm	0.1402 ppm	0.0030 ppm	-0.0007 ppm	0.0084 ppm
Concentration RSD	93.4 %	0.2 %	14.7 %	0.6 %	7.2 %	283.0 %	1.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	51.8492 ppm	94.2802 %	93.4621 %	93.7942 %	101.2065 %	92.9427 %	96.1366 %
Concentration per Run 1	51.6681 ppm	93.5748 %	93.2464 %	94.0174 %	101.5224 %	92.8792 %	95.9224 %
Concentration per Run 2	51.9002 ppm	93.8801 %	93.4566 %	93.5781 %	100.1970 %	92.9180 %	96.3156 %
Concentration per Run 3	51.9792 ppm	95.3858 %	93.6833 %	93.7872 %	101.9002 %	93.0309 %	96.1719 %
Concentration RSD	0.3 %	1.0 %	0.2 %	0.2 %	0.9 %	0.1 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-5 WG1974264
Analysis started at: 9/24/2024 5:34:49 PM
Comments <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0519 ppm	2.4310 ppm	0.1265 ppm	1.7868 ppm	2.0097 ppm	0.0500 ppm	54.6548 ppm
Concentration per Run 1	0.0525 ppm	2.4739 ppm	0.1274 ppm	1.7866 ppm	2.0548 ppm	0.0510 ppm	55.8322 ppm
Concentration per Run 2	0.0516 ppm	2.4173 ppm	0.1241 ppm	1.7806 ppm	1.9935 ppm	0.0496 ppm	54.2098 ppm
Concentration per Run 3	0.0516 ppm	2.4018 ppm	0.1279 ppm	1.7933 ppm	1.9810 ppm	0.0493 ppm	53.9224 ppm
Concentration RSD	1.0 %	1.6 %	1.6 %	0.4 %	2.0 %	1.9 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.1169 ppm	0.5824 ppm	0.2662 ppm	0.2573 ppm	110.3245 ppm	30.9162 ppm	0.1004 ppm
Concentration per Run 1	0.1169 ppm	0.5827 ppm	0.2650 ppm	0.2574 ppm	112.5909 ppm	31.7062 ppm	0.1011 ppm
Concentration per Run 2	0.1166 ppm	0.5807 ppm	0.2656 ppm	0.2564 ppm	109.4586 ppm	30.5768 ppm	0.0993 ppm
Concentration per Run 3	0.1172 ppm	0.5838 ppm	0.2679 ppm	0.2581 ppm	108.9238 ppm	30.4657 ppm	0.1009 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %	0.3 %	1.8 %	2.2 %	1.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.0992 ppm	1.5041 ppm	1.1544 ppm	20.0814 ppm	1.4471 ppm	0.5426 ppm	0.5126 ppm
Concentration per Run 1	13.0433 ppm	1.5350 ppm	1.1522 ppm	20.3924 ppm	1.4484 ppm	0.5436 ppm	0.5118 ppm
Concentration per Run 2	13.1189 ppm	1.4932 ppm	1.1517 ppm	20.0184 ppm	1.4419 ppm	0.5407 ppm	0.5105 ppm
Concentration per Run 3	13.1353 ppm	1.4842 ppm	1.1592 ppm	19.8335 ppm	1.4509 ppm	0.5434 ppm	0.5156 ppm
Concentration RSD	0.4 %	1.8 %	0.4 %	1.4 %	0.3 %	0.3 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1234 ppm	5.8876 ppm	1.0263 ppm	1.0873 ppm	1.0528 ppm	0.1193 ppm	0.5126 ppm
Concentration per Run 1	0.1215 ppm	5.8887 ppm	1.0272 ppm	1.1124 ppm	1.0493 ppm	0.1175 ppm	0.5118 ppm
Concentration per Run 2	0.1262 ppm	5.8688 ppm	1.0213 ppm	1.0789 ppm	1.0540 ppm	0.1193 ppm	0.5125 ppm
Concentration per Run 3	0.1226 ppm	5.9054 ppm	1.0306 ppm	1.0706 ppm	1.0552 ppm	0.1210 ppm	0.5134 ppm
Concentration RSD	2.0 %	0.3 %	0.5 %	2.0 %	0.3 %	1.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	49.2481 ppm	96.4880 %	94.2178 %	94.0622 %	102.9295 %	94.2225 %	97.7640 %
Concentration per Run 1	49.4947 ppm	94.4073 %	94.4572 %	94.0694 %	101.3543 %	94.1378 %	98.1876 %
Concentration per Run 2	49.0795 ppm	97.3328 %	93.9474 %	94.0205 %	103.4934 %	94.4915 %	97.4450 %
Concentration per Run 3	49.1701 ppm	97.7240 %	94.2489 %	94.0968 %	103.9406 %	94.0382 %	97.6596 %
Concentration RSD	0.4 %	1.9 %	0.3 %	0.0 %	1.3 %	0.3 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974264-6D5 WG1974264
Analysis started at: 9/24/2024 5:41:01 PM
Comments <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.1015 ppm	-0.0011 ppm	0.1619 ppm	0.0182 ppm	0.0000 ppm	8.7582 ppm
Concentration per Run 1	0.0007 ppm	0.1060 ppm	-0.0018 ppm	0.1621 ppm	0.0183 ppm	0.0000 ppm	8.7198 ppm
Concentration per Run 2	0.0006 ppm	0.0915 ppm	-0.0007 ppm	0.1621 ppm	0.0179 ppm	0.0001 ppm	8.7585 ppm
Concentration per Run 3	0.0005 ppm	0.1071 ppm	-0.0007 ppm	0.1613 ppm	0.0182 ppm	0.0001 ppm	8.7963 ppm
Concentration RSD	18.7 %	8.5 %	58.7 %	0.3 %	1.1 %	107.4 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0130 ppm	0.0149 ppm	0.0130 ppm	-0.0010 ppm	21.6462 ppm	4.1115 ppm	0.0189 ppm
Concentration per Run 1	0.0130 ppm	0.0150 ppm	0.0128 ppm	-0.0009 ppm	21.4758 ppm	4.1364 ppm	0.0167 ppm
Concentration per Run 2	0.0130 ppm	0.0149 ppm	0.0133 ppm	-0.0010 ppm	21.6848 ppm	4.1455 ppm	0.0198 ppm
Concentration per Run 3	0.0130 ppm	0.0148 ppm	0.0128 ppm	-0.0012 ppm	21.7779 ppm	4.0527 ppm	0.0202 ppm
Concentration RSD	0.1 %	0.6 %	2.1 %	12.9 %	0.7 %	1.2 %	10.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.6851 ppm	0.2044 ppm	0.0157 ppm	1.9925 ppm	0.1929 ppm	0.0007 ppm	-0.0014 ppm
Concentration per Run 1	0.6838 ppm	0.2036 ppm	0.0160 ppm	1.9928 ppm	0.1924 ppm	0.0011 ppm	-0.0014 ppm
Concentration per Run 2	0.6866 ppm	0.2048 ppm	0.0156 ppm	1.9829 ppm	0.1932 ppm	0.0007 ppm	-0.0020 ppm
Concentration per Run 3	0.6850 ppm	0.2049 ppm	0.0154 ppm	2.0019 ppm	0.1931 ppm	0.0002 ppm	-0.0009 ppm
Concentration RSD	0.2 %	0.3 %	2.0 %	0.5 %	0.2 %	67.5 %	37.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.9506 ppm	0.0004 ppm	0.0263 ppm	0.0008 ppm	0.0010 ppm	0.0019 ppm
Concentration per Run 1	0.0006 ppm	0.9507 ppm	0.0004 ppm	0.0262 ppm	0.0009 ppm	0.0012 ppm	0.0019 ppm
Concentration per Run 2	-0.0012 ppm	0.9504 ppm	0.0004 ppm	0.0263 ppm	0.0007 ppm	0.0013 ppm	0.0020 ppm
Concentration per Run 3	-0.0010 ppm	0.9507 ppm	0.0004 ppm	0.0265 ppm	0.0008 ppm	0.0005 ppm	0.0017 ppm
Concentration RSD	191.3 %	0.0 %	5.8 %	0.5 %	12.0 %	42.0 %	7.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	11.0628 ppm	104.0990 %	99.8941 %	99.7277 %	106.0219 %	101.4043 %	102.3383 %
Concentration per Run 1	11.0733 ppm	104.1478 %	99.4864 %	99.8027 %	105.2803 %	101.6132 %	102.0768 %
Concentration per Run 2	11.0762 ppm	103.8379 %	100.2957 %	99.5390 %	106.2452 %	101.1808 %	102.5188 %
Concentration per Run 3	11.0388 ppm	104.3112 %	99.9001 %	99.8414 %	106.5401 %	101.4189 %	102.4193 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.2 %	0.6 %	0.2 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 5:47:09 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5082 ppm	0.4660 ppm	0.4782 ppm	0.4860 ppm	0.4582 ppm	0.4722 ppm	0.4688 ppm
Concentration per Run 1	0.5073 ppm	0.4479 ppm	0.4796 ppm	0.4864 ppm	0.4360 ppm	0.4485 ppm	0.4416 ppm
Concentration per Run 2	0.5091 ppm	0.4713 ppm	0.4778 ppm	0.4861 ppm	0.4670 ppm	0.4810 ppm	0.4788 ppm
Concentration per Run 3	0.5080 ppm	0.4787 ppm	0.4772 ppm	0.4855 ppm	0.4716 ppm	0.4871 ppm	0.4861 ppm
Recovery Percentage 1	101.631 %	93.199 %	95.636 %	97.202 %	91.637 %	94.436 %	93.767 %
Concentration RSD	0.2 %	3.5 %	0.3 %	0.1 %	4.2 %	4.4 %	5.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4837 ppm	0.4936 ppm	0.4935 ppm	0.4804 ppm	0.4653 ppm	4.5460 ppm	0.4691 ppm
Concentration per Run 1	0.4839 ppm	0.4936 ppm	0.4921 ppm	0.4791 ppm	0.4322 ppm	4.3069 ppm	0.4454 ppm
Concentration per Run 2	0.4832 ppm	0.4934 ppm	0.4949 ppm	0.4810 ppm	0.4759 ppm	4.6271 ppm	0.4793 ppm
Concentration per Run 3	0.4840 ppm	0.4939 ppm	0.4933 ppm	0.4810 ppm	0.4877 ppm	4.7039 ppm	0.4827 ppm
Recovery Percentage 1	96.744 %	98.729 %	98.693 %	96.079 %	93.058 %	90.919 %	93.827 %
Concentration RSD	0.1 %	0.1 %	0.3 %	0.2 %	6.3 %	4.6 %	4.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4901 ppm	0.4673 ppm	0.4790 ppm	9.4484 ppm	0.4928 ppm	0.4923 ppm	0.4922 ppm
Concentration per Run 1	0.4927 ppm	0.4442 ppm	0.4753 ppm	8.9936 ppm	0.4942 ppm	0.4924 ppm	0.4909 ppm
Concentration per Run 2	0.4897 ppm	0.4766 ppm	0.4782 ppm	9.5983 ppm	0.4917 ppm	0.4921 ppm	0.4912 ppm
Concentration per Run 3	0.4878 ppm	0.4812 ppm	0.4836 ppm	9.7531 ppm	0.4924 ppm	0.4923 ppm	0.4946 ppm
Recovery Percentage 1	98.014 %	93.468 %	95.800 %	94.484 %	98.551 %	98.457 %	98.445 %
Concentration RSD	0.5 %	4.3 %	0.9 %	4.2 %	0.3 %	0.0 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4907 ppm	5.3649 ppm	0.4579 ppm	0.4445 ppm	0.4916 ppm	0.4937 ppm	0.4788 ppm
Concentration per Run 1	0.4925 ppm	5.3734 ppm	0.4590 ppm	0.4217 ppm	0.4911 ppm	0.4941 ppm	0.4781 ppm
Concentration per Run 2	0.4894 ppm	5.3673 ppm	0.4571 ppm	0.4531 ppm	0.4923 ppm	0.4938 ppm	0.4790 ppm
Concentration per Run 3	0.4903 ppm	5.3541 ppm	0.4576 ppm	0.4585 ppm	0.4916 ppm	0.4932 ppm	0.4792 ppm
Recovery Percentage 1	98.144 %	102.189 %	91.579 %	88.890 %	98.330 %	98.738 %	95.756 %
Concentration RSD	0.3 %	0.2 %	0.2 %	4.5 %	0.1 %	0.1 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4913 ppm	106.2454 %	99.3573 %	100.0682 %	109.7056 %	102.6245 %	101.9280 %
Concentration per Run 1	0.4921 ppm	110.8213 %	99.3024 %	100.4279 %	114.2359 %	102.6371 %	101.8878 %
Concentration per Run 2	0.4910 ppm	104.3679 %	99.1987 %	100.0416 %	107.9474 %	102.6498 %	101.5935 %
Concentration per Run 3	0.4907 ppm	103.5470 %	99.5706 %	99.7350 %	106.9334 %	102.5866 %	102.3028 %
Recovery Percentage 1	98.252 %						
Concentration RSD	0.2 %	3.7 %	0.2 %	0.3 %	3.6 %	0.0 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 5:53:12 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0075 ppm	-0.0013 ppm	0.0023 ppm	0.0006 ppm	0.0006 ppm	0.0086 ppm
Concentration per Run 1	-0.0002 ppm	-0.0121 ppm	-0.0011 ppm	0.0024 ppm	0.0008 ppm	0.0008 ppm	0.0173 ppm
Concentration per Run 2	-0.0003 ppm	0.0028 ppm	-0.0014 ppm	0.0024 ppm	0.0006 ppm	0.0006 ppm	0.0041 ppm
Concentration per Run 3	0.0000 ppm	-0.0132 ppm	-0.0013 ppm	0.0020 ppm	0.0003 ppm	0.0004 ppm	0.0043 ppm
Recovery Percentage 1	-2.429 %	-7.530 %	-25.195 %	7.591 %	5.745 %	11.490 %	8.573 %
Concentration RSD	80.0 %	118.7 %	11.0 %	9.6 %	40.9 %	35.9 %	88.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0020 ppm	-0.0228 ppm	-0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0004 ppm	0.0020 ppm	-0.0078 ppm	0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0024 ppm	-0.0336 ppm	-0.0017 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0002 ppm	0.0017 ppm	-0.0270 ppm	-0.0036 ppm
Recovery Percentage 1	0.740 %	0.144 %	-5.191 %	2.794 %	4.019 %	-0.911 %	-16.011 %
Concentration RSD	92.7 %	472.8 %	76.1 %	42.1 %	17.4 %	58.9 %	130.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0013 ppm	0.0006 ppm	0.0026 ppm	-0.0085 ppm	-0.0002 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0010 ppm	0.0030 ppm	-0.0045 ppm	-0.0005 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.0008 ppm	0.0025 ppm	-0.0170 ppm	-0.0003 ppm	-0.0012 ppm	0.0014 ppm
Concentration per Run 3	-0.0041 ppm	0.0000 ppm	0.0023 ppm	-0.0040 ppm	0.0002 ppm	0.0005 ppm	0.0019 ppm
Recovery Percentage 1	-1.279 %	6.107 %	5.197 %	-0.425 %	-0.870 %	-0.003 %	2.237 %
Concentration RSD	192.2 %	82.8 %	15.4 %	86.6 %	182.4 %	332,396.0 %	82.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0022 ppm	0.0017 ppm	-0.0005 ppm	0.0005 ppm	0.0004 ppm	0.0011 ppm	0.0005 ppm
Concentration per Run 1	0.0022 ppm	0.0016 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 2	0.0036 ppm	0.0019 ppm	-0.0008 ppm	0.0004 ppm	0.0005 ppm	0.0013 ppm	0.0006 ppm
Concentration per Run 3	0.0006 ppm	0.0017 ppm	-0.0006 ppm	0.0005 ppm	0.0004 ppm	0.0007 ppm	0.0004 ppm
Recovery Percentage 1	21.539 %	0.339 %	-0.959 %	4.576 %	3.656 %	5.257 %	4.556 %
Concentration RSD	70.9 %	9.8 %	72.1 %	20.0 %	37.7 %	30.9 %	31.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0009 ppm	94.6761 %	96.4362 %	97.5388 %	93.2957 %	98.2471 %	96.3030 %
Concentration per Run 1	0.0012 ppm	93.0415 %	97.1606 %	96.8736 %	90.6477 %	96.9186 %	96.8182 %
Concentration per Run 2	0.0008 ppm	92.3348 %	96.1933 %	98.4677 %	91.6584 %	99.3564 %	96.0739 %
Concentration per Run 3	0.0008 ppm	98.6519 %	95.9546 %	97.2751 %	97.5811 %	98.4664 %	96.0168 %
Recovery Percentage 1	18.554 %						
Concentration RSD	23.0 %	3.7 %	0.7 %	0.9 %	4.0 %	1.3 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 60 Zn
Analysis started at: 9/24/2024 6:11:52 PM
Comments <Comment>
Rack: 1
Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0071 ppm	-0.0021 ppm	-0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 1	-0.0001 ppm	-0.0128 ppm	-0.0021 ppm	-0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0034 ppm
Concentration per Run 2	0.0007 ppm	0.0017 ppm	-0.0029 ppm	-0.0002 ppm	0.0005 ppm	0.0001 ppm	0.0062 ppm
Concentration per Run 3	0.0000 ppm	-0.0101 ppm	-0.0013 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm	0.0019 ppm
Concentration RSD	228.7 %	108.8 %	38.8 %	63.8 %	24.2 %	1,234.9 %	56.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm	-0.0534 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0021 ppm	-0.0419 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0005 ppm	0.0001 ppm	-0.0331 ppm	-0.0032 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	0.0006 ppm	0.0010 ppm	-0.0851 ppm	0.0002 ppm
Concentration RSD	86.1 %	53.1 %	334.4 %	42.7 %	98.0 %	52.2 %	191.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0018 ppm	0.0001 ppm	0.0012 ppm	-0.0084 ppm	0.0003 ppm	-0.0001 ppm	-0.0056 ppm
Concentration per Run 1	0.0013 ppm	0.0000 ppm	0.0014 ppm	-0.0175 ppm	0.0002 ppm	-0.0002 ppm	-0.0045 ppm
Concentration per Run 2	0.0024 ppm	0.0004 ppm	0.0014 ppm	-0.0103 ppm	0.0005 ppm	0.0007 ppm	-0.0062 ppm
Concentration per Run 3	0.0018 ppm	0.0000 ppm	0.0009 ppm	0.0027 ppm	0.0001 ppm	-0.0009 ppm	-0.0062 ppm
Concentration RSD	29.3 %	255.3 %	24.2 %	122.6 %	80.1 %	701.4 %	17.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 1	-0.0013 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 2	0.0010 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0022 ppm	0.0004 ppm
Concentration per Run 3	0.0007 ppm	-0.0003 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0001 ppm
Concentration RSD	734.1 %	7,331.0 %	253.4 %	48.4 %	51.2 %	115.4 %	74.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	53.8125 ppm	101.7480 %	99.5166 %	99.9848 %	99.4938 %	100.7588 %	99.6858 %
Concentration per Run 1	54.1715 ppm	101.1574 %	99.5465 %	100.1794 %	97.8666 %	100.5515 %	99.7109 %
Concentration per Run 2	53.5259 ppm	101.9089 %	99.4685 %	100.1101 %	99.6089 %	101.1079 %	99.5183 %
Concentration per Run 3	53.7401 ppm	102.1776 %	99.5349 %	99.6649 %	101.0058 %	100.6170 %	99.8282 %
Concentration RSD	0.6 %	0.5 %	0.0 %	0.3 %	1.6 %	0.3 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LDR 60 Si
Analysis started at: 9/24/2024 6:18:14 PM
Comments <Comment>
Rack: 1
Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0111 ppm	-0.0020 ppm	0.0051 ppm	0.0000 ppm	0.0001 ppm	0.0059 ppm
Concentration per Run 1	0.0004 ppm	0.0164 ppm	-0.0009 ppm	0.0050 ppm	0.0001 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	-0.0003 ppm	0.0096 ppm	-0.0031 ppm	0.0051 ppm	-0.0001 ppm	0.0001 ppm	0.0097 ppm
Concentration per Run 3	-0.0003 ppm	0.0075 ppm	-0.0020 ppm	0.0051 ppm	-0.0001 ppm	0.0001 ppm	0.0070 ppm
Concentration RSD	747.0 %	41.7 %	54.8 %	0.8 %	560.0 %	66.1 %	75.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0012 ppm	-0.0001 ppm	-0.0002 ppm	0.0015 ppm	-0.0365 ppm	-0.0018 ppm
Concentration per Run 1	0.0001 ppm	-0.0011 ppm	-0.0001 ppm	-0.0005 ppm	0.0018 ppm	-0.0633 ppm	-0.0011 ppm
Concentration per Run 2	0.0001 ppm	-0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0089 ppm	-0.0022 ppm
Concentration per Run 3	0.0002 ppm	-0.0010 ppm	-0.0002 ppm	-0.0001 ppm	0.0029 ppm	-0.0551 ppm	-0.0020 ppm
Concentration RSD	9.0 %	16.9 %	232.7 %	135.6 %	92.9 %	108.4 %	30.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0018 ppm	0.0002 ppm	0.0003 ppm	0.0038 ppm	-0.0020 ppm	0.0007 ppm	0.0027 ppm
Concentration per Run 1	0.0023 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm	-0.0018 ppm	0.0005 ppm	0.0039 ppm
Concentration per Run 2	0.0024 ppm	0.0001 ppm	0.0004 ppm	-0.0017 ppm	-0.0022 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	0.0007 ppm	0.0003 ppm	0.0002 ppm	0.0134 ppm	-0.0020 ppm	0.0009 ppm	0.0034 ppm
Concentration RSD	53.1 %	60.8 %	39.5 %	215.8 %	11.3 %	22.8 %	64.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	**60.2962 [SIC 100]**	-0.0005 ppm	0.0001 ppm	0.0003 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 1	0.0002 ppm	60.2139 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0036 ppm	60.3411 ppm	-0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0017 ppm	0.0006 ppm
Concentration per Run 3	0.0008 ppm	60.3335 ppm	-0.0004 ppm	0.0002 ppm	0.0005 ppm	0.0028 ppm	0.0001 ppm
Concentration RSD	120.8 %	0.1 %	34.7 %	96.7 %	67.0 %	114.3 %	67.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0079 ppm	102.1115 %	99.2547 %	100.3080 %	108.0916 %	103.1054 %	102.8482 %
Concentration per Run 1	0.0085 ppm	101.3921 %	99.2315 %	100.2160 %	108.2719 %	102.9563 %	102.7159 %
Concentration per Run 2	0.0073 ppm	102.4341 %	99.3801 %	100.4664 %	107.6942 %	103.1768 %	103.0925 %
Concentration per Run 3	0.0078 ppm	102.5082 %	99.1524 %	100.2415 %	108.3088 %	103.1832 %	102.7362 %
Concentration RSD	8.1 %	0.6 %	0.1 %	0.1 %	0.3 %	0.1 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453356-06 WG1974375
Analysis started at: 9/24/2024 6:44:26 PM
Comments <Comment>
Rack: 1
Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0009 ppm	2.9290 ppm	0.0079 ppm	0.0515 ppm	0.0174 ppm	0.0104 ppm	54.1229 ppm
Concentration per Run 1	0.0002 ppm	3.0043 ppm	0.0083 ppm	0.0518 ppm	0.0182 ppm	0.0106 ppm	54.7355 ppm
Concentration per Run 2	0.0014 ppm	2.9035 ppm	0.0069 ppm	0.0512 ppm	0.0169 ppm	0.0104 ppm	53.5841 ppm
Concentration per Run 3	0.0011 ppm	2.8791 ppm	0.0084 ppm	0.0515 ppm	0.0171 ppm	0.0102 ppm	54.0491 ppm
Concentration RSD	69.4 %	2.3 %	10.6 %	0.6 %	4.0 %	1.9 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0007 ppm	0.0578 ppm	0.0001 ppm	0.0039 ppm	0.0045 ppm	8.2432 ppm	0.0452 ppm
Concentration per Run 1	0.0007 ppm	0.0583 ppm	0.0005 ppm	0.0045 ppm	0.0051 ppm	8.3329 ppm	0.0467 ppm
Concentration per Run 2	0.0007 ppm	0.0575 ppm	0.0001 ppm	0.0035 ppm	0.0042 ppm	8.1385 ppm	0.0439 ppm
Concentration per Run 3	0.0007 ppm	0.0577 ppm	-0.0003 ppm	0.0038 ppm	0.0042 ppm	8.2582 ppm	0.0451 ppm
Concentration RSD	4.3 %	0.7 %	501.0 %	12.7 %	11.2 %	1.2 %	3.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.8112 ppm	1.6623 ppm	0.0001 ppm	3.2158 ppm	0.0413 ppm	0.0003 ppm	0.0009 ppm
Concentration per Run 1	2.8292 ppm	1.7077 ppm	0.0001 ppm	3.3013 ppm	0.0413 ppm	-0.0005 ppm	0.0006 ppm
Concentration per Run 2	2.7955 ppm	1.6474 ppm	-0.0001 ppm	3.1874 ppm	0.0412 ppm	0.0007 ppm	0.0008 ppm
Concentration per Run 3	2.8089 ppm	1.6319 ppm	0.0004 ppm	3.1586 ppm	0.0414 ppm	0.0006 ppm	0.0013 ppm
Concentration RSD	0.6 %	2.4 %	248.2 %	2.3 %	0.1 %	225.6 %	39.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0016 ppm	31.4959 ppm	-0.0005 ppm	0.2177 ppm	0.0000 ppm	0.0030 ppm	0.0024 ppm
Concentration per Run 1	0.0036 ppm	31.6376 ppm	-0.0008 ppm	0.2199 ppm	-0.0002 ppm	0.0028 ppm	0.0027 ppm
Concentration per Run 2	0.0011 ppm	31.3767 ppm	-0.0006 ppm	0.2154 ppm	0.0002 ppm	0.0036 ppm	0.0026 ppm
Concentration per Run 3	0.0001 ppm	31.4735 ppm	0.0000 ppm	0.2179 ppm	0.0001 ppm	0.0027 ppm	0.0019 ppm
Concentration RSD	111.6 %	0.4 %	84.4 %	1.0 %	678.6 %	16.8 %	18.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0394 ppm	118.1851 %	113.0214 %	113.1787 %	98.3765 %	97.8984 %	98.5295 %
Concentration per Run 1	0.0396 ppm	116.8389 %	112.9939 %	113.5050 %	95.5828 %	97.4531 %	98.1480 %
Concentration per Run 2	0.0391 ppm	119.8077 %	113.5668 %	113.2443 %	99.6603 %	98.3293 %	99.0665 %
Concentration per Run 3	0.0393 ppm	117.9089 %	112.5037 %	112.7870 %	99.8865 %	97.9129 %	98.3740 %
Concentration RSD	0.6 %	1.3 %	0.5 %	0.3 %	2.5 %	0.4 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453356-07 WG1974375
Analysis started at: 9/24/2024 6:50:35 PM
Comments <Comment>
Rack: 1
Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0317 ppm	0.0005 ppm	0.0290 ppm	0.0124 ppm	0.0000 ppm	100.0649 ppm
Concentration per Run 1	-0.0003 ppm	0.0345 ppm	0.0001 ppm	0.0292 ppm	0.0126 ppm	0.0000 ppm	100.3309 ppm
Concentration per Run 2	-0.0003 ppm	0.0417 ppm	0.0009 ppm	0.0293 ppm	0.0125 ppm	-0.0001 ppm	99.5723 ppm
Concentration per Run 3	-0.0002 ppm	0.0188 ppm	0.0004 ppm	0.0286 ppm	0.0121 ppm	0.0000 ppm	100.2914 ppm
Concentration RSD	24.9 %	37.1 %	86.2 %	1.4 %	2.1 %	58.6 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0010 ppm	0.0285 ppm	3.6222 ppm	0.0154 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	-0.0008 ppm	0.0009 ppm	0.0271 ppm	3.6451 ppm	0.0164 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0008 ppm	0.0288 ppm	3.5669 ppm	0.0147 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0013 ppm	0.0297 ppm	3.6545 ppm	0.0152 ppm
Concentration RSD	51.1 %	45.2 %	129.5 %	22.1 %	4.8 %	1.3 %	5.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	28.8080 ppm	0.0659 ppm	0.0002 ppm	14.4239 ppm	0.0026 ppm	-0.0013 ppm	0.0005 ppm
Concentration per Run 1	28.8333 ppm	0.0681 ppm	0.0002 ppm	14.7986 ppm	0.0023 ppm	-0.0020 ppm	0.0012 ppm
Concentration per Run 2	28.8319 ppm	0.0655 ppm	0.0001 ppm	14.3645 ppm	0.0026 ppm	-0.0013 ppm	0.0011 ppm
Concentration per Run 3	28.7587 ppm	0.0641 ppm	0.0004 ppm	14.1085 ppm	0.0029 ppm	-0.0006 ppm	-0.0008 ppm
Concentration RSD	0.1 %	3.1 %	75.8 %	2.4 %	12.6 %	55.3 %	218.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	13.1235 ppm	-0.0004 ppm	0.4478 ppm	0.0020 ppm	0.0012 ppm	0.0008 ppm
Concentration per Run 1	0.0007 ppm	13.2146 ppm	-0.0003 ppm	0.4483 ppm	0.0017 ppm	0.0007 ppm	0.0008 ppm
Concentration per Run 2	0.0009 ppm	13.1462 ppm	-0.0009 ppm	0.4456 ppm	0.0021 ppm	0.0020 ppm	0.0008 ppm
Concentration per Run 3	-0.0004 ppm	13.0097 ppm	-0.0001 ppm	0.4495 ppm	0.0023 ppm	0.0009 ppm	0.0008 ppm
Concentration RSD	179.5 %	0.8 %	88.7 %	0.5 %	14.9 %	56.8 %	3.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0030 ppm	102.1360 %	94.2640 %	94.7558 %	94.3865 %	93.6845 %	94.2805 %
Concentration per Run 1	0.0030 ppm	101.6663 %	94.2720 %	94.9853 %	91.5257 %	93.2835 %	94.1238 %
Concentration per Run 2	0.0030 ppm	102.4375 %	94.2103 %	94.5591 %	94.6056 %	93.3621 %	94.1068 %
Concentration per Run 3	0.0031 ppm	102.3043 %	94.3097 %	94.7231 %	97.0284 %	94.4080 %	94.6110 %
Concentration RSD	0.8 %	0.4 %	0.1 %	0.2 %	2.9 %	0.7 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453356-08 WG1974375
Analysis started at: 9/24/2024 6:56:48 PM
Comments <Comment>
Rack: 1
Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0102 ppm	-0.0015 ppm	0.0504 ppm	0.0094 ppm	0.0000 ppm	54.4729 ppm
Concentration per Run 1	-0.0007 ppm	0.0070 ppm	-0.0026 ppm	0.0505 ppm	0.0094 ppm	0.0000 ppm	54.3444 ppm
Concentration per Run 2	0.0000 ppm	0.0087 ppm	-0.0013 ppm	0.0502 ppm	0.0093 ppm	0.0001 ppm	54.1463 ppm
Concentration per Run 3	0.0007 ppm	0.0149 ppm	-0.0008 ppm	0.0504 ppm	0.0094 ppm	0.0000 ppm	54.9281 ppm
Concentration RSD	10,471.6 %	40.9 %	60.2 %	0.3 %	0.6 %	537.1 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0037 ppm	0.0015 ppm	0.0084 ppm	2.6222 ppm	0.0140 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0042 ppm	0.0016 ppm	0.0099 ppm	2.6064 ppm	0.0143 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0036 ppm	0.0013 ppm	0.0066 ppm	2.6029 ppm	0.0131 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0035 ppm	0.0017 ppm	0.0087 ppm	2.6573 ppm	0.0145 ppm
Concentration RSD	15.0 %	50.7 %	10.2 %	15.7 %	20.3 %	1.2 %	5.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	17.9255 ppm	0.0391 ppm	0.0002 ppm	24.9270 ppm	0.0029 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 1	17.9669 ppm	0.0399 ppm	0.0003 ppm	25.4925 ppm	0.0028 ppm	0.0010 ppm	0.0009 ppm
Concentration per Run 2	17.9404 ppm	0.0389 ppm	0.0001 ppm	24.7988 ppm	0.0028 ppm	-0.0001 ppm	0.0009 ppm
Concentration per Run 3	17.8693 ppm	0.0384 ppm	0.0002 ppm	24.4898 ppm	0.0030 ppm	0.0001 ppm	0.0004 ppm
Concentration RSD	0.3 %	2.0 %	46.4 %	2.1 %	5.2 %	179.0 %	37.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	14.7404 ppm	-0.0005 ppm	0.4997 ppm	0.0009 ppm	0.0018 ppm	0.0008 ppm
Concentration per Run 1	-0.0010 ppm	14.8097 ppm	-0.0003 ppm	0.4979 ppm	0.0011 ppm	0.0017 ppm	0.0007 ppm
Concentration per Run 2	0.0022 ppm	14.7179 ppm	-0.0003 ppm	0.4960 ppm	0.0006 ppm	0.0020 ppm	0.0009 ppm
Concentration per Run 3	-0.0034 ppm	14.6937 ppm	-0.0010 ppm	0.5051 ppm	0.0009 ppm	0.0018 ppm	0.0008 ppm
Concentration RSD	398.2 %	0.4 %	73.4 %	1.0 %	26.5 %	10.8 %	13.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0028 ppm	102.7516 %	95.4938 %	95.9239 %	95.1184 %	95.3772 %	95.5709 %
Concentration per Run 1	0.0029 ppm	103.1363 %	95.3038 %	96.0771 %	93.0286 %	94.7809 %	95.1234 %
Concentration per Run 2	0.0028 ppm	103.5548 %	95.7300 %	95.9383 %	95.6379 %	95.5114 %	95.7101 %
Concentration per Run 3	0.0028 ppm	101.5639 %	95.4476 %	95.7564 %	96.6887 %	95.8394 %	95.8791 %
Concentration RSD	1.2 %	1.0 %	0.2 %	0.2 %	2.0 %	0.6 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453356-09 WG1974375
Analysis started at: 9/24/2024 7:03:02 PM
Comments <Comment>
Rack: 1
Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0268 ppm	0.0004 ppm	0.0090 ppm	0.0013 ppm	0.0000 ppm	45.5421 ppm
Concentration per Run 1	0.0003 ppm	0.0234 ppm	0.0011 ppm	0.0093 ppm	0.0017 ppm	0.0000 ppm	47.5509 ppm
Concentration per Run 2	0.0002 ppm	0.0195 ppm	0.0022 ppm	0.0090 ppm	0.0010 ppm	0.0001 ppm	44.2960 ppm
Concentration per Run 3	0.0005 ppm	0.0374 ppm	-0.0019 ppm	0.0088 ppm	0.0013 ppm	0.0000 ppm	44.7793 ppm
Concentration RSD	51.9 %	35.2 %	481.7 %	2.7 %	23.7 %	122.8 %	3.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.7542 ppm	0.2605 ppm	3.5327 ppm	0.0139 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.7561 ppm	0.2720 ppm	3.6818 ppm	0.0162 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.7544 ppm	0.2523 ppm	3.4263 ppm	0.0122 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.7521 ppm	0.2573 ppm	3.4899 ppm	0.0134 ppm
Concentration RSD	21.2 %	55.4 %	264.6 %	0.3 %	3.9 %	3.8 %	14.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	7.9729 ppm	0.0187 ppm	0.0023 ppm	10.0107 ppm	0.0881 ppm	0.0372 ppm	0.0024 ppm
Concentration per Run 1	8.0066 ppm	0.0197 ppm	0.0022 ppm	10.6417 ppm	0.0886 ppm	0.0372 ppm	0.0024 ppm
Concentration per Run 2	7.9762 ppm	0.0179 ppm	0.0025 ppm	9.7227 ppm	0.0882 ppm	0.0380 ppm	0.0032 ppm
Concentration per Run 3	7.9360 ppm	0.0185 ppm	0.0020 ppm	9.6676 ppm	0.0876 ppm	0.0366 ppm	0.0016 ppm
Concentration RSD	0.4 %	4.9 %	11.4 %	5.5 %	0.6 %	1.9 %	33.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	10.2004 ppm	0.0720 ppm	0.0955 ppm	0.0023 ppm	0.0012 ppm	0.0007 ppm
Concentration per Run 1	0.0015 ppm	10.2772 ppm	0.0720 ppm	0.0997 ppm	0.0023 ppm	0.0021 ppm	0.0007 ppm
Concentration per Run 2	0.0010 ppm	10.1650 ppm	0.0720 ppm	0.0929 ppm	0.0020 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	10.1589 ppm	0.0718 ppm	0.0940 ppm	0.0024 ppm	0.0013 ppm	0.0010 ppm
Concentration RSD	92.4 %	0.7 %	0.1 %	3.8 %	9.3 %	86.4 %	37.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.3389 ppm	98.4491 %	95.6208 %	95.9444 %	91.2473 %	96.3080 %	95.4766 %
Concentration per Run 1	0.3416 ppm	94.6525 %	95.2570 %	96.0840 %	85.9876 %	95.7231 %	94.8026 %
Concentration per Run 2	0.3376 ppm	100.6296 %	96.1506 %	95.7246 %	93.2902 %	96.4228 %	95.8831 %
Concentration per Run 3	0.3376 ppm	100.0651 %	95.4548 %	96.0246 %	94.4641 %	96.7780 %	95.7440 %
Concentration RSD	0.7 %	3.4 %	0.5 %	0.2 %	5.0 %	0.6 %	0.6 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453399-01 WG1974375
Analysis started at: 9/24/2024 7:09:15 PM
Comments <Comment>
Rack: 1
Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	-0.0014 ppm	-0.0004 ppm	0.0210 ppm	0.1040 ppm	0.0000 ppm	17.2405 ppm
Concentration per Run 1	0.0010 ppm	0.0056 ppm	-0.0005 ppm	0.0209 ppm	0.1065 ppm	0.0000 ppm	17.3440 ppm
Concentration per Run 2	0.0002 ppm	-0.0084 ppm	-0.0001 ppm	0.0211 ppm	0.1034 ppm	0.0000 ppm	17.2059 ppm
Concentration per Run 3	0.0004 ppm	-0.0013 ppm	-0.0005 ppm	0.0209 ppm	0.1021 ppm	0.0000 ppm	17.1715 ppm
Concentration RSD	72.4 %	501.2 %	58.0 %	0.5 %	2.2 %	325.1 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0015 ppm	0.0016 ppm	0.0009 ppm	0.1115 ppm	3.2211 ppm	0.0022 ppm
Concentration per Run 1	0.0000 ppm	0.0017 ppm	0.0014 ppm	0.0009 ppm	0.1115 ppm	3.2727 ppm	0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0013 ppm	0.0018 ppm	0.0009 ppm	0.1103 ppm	3.1963 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0014 ppm	0.0016 ppm	0.0008 ppm	0.1126 ppm	3.1945 ppm	0.0040 ppm
Concentration RSD	48.8 %	14.3 %	11.6 %	8.6 %	1.0 %	1.4 %	110.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.0028 ppm	7.4829 ppm	0.0001 ppm	26.2948 ppm	0.0016 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 1	8.0924 ppm	7.6577 ppm	0.0003 ppm	26.9089 ppm	0.0014 ppm	-0.0002 ppm	0.0013 ppm
Concentration per Run 2	8.1762 ppm	7.4634 ppm	0.0000 ppm	26.2174 ppm	0.0015 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 3	7.7397 ppm	7.3276 ppm	0.0000 ppm	25.7582 ppm	0.0019 ppm	0.0002 ppm	0.0000 ppm
Concentration RSD	2.9 %	2.2 %	119.2 %	2.2 %	15.3 %	249.8 %	101.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0011 ppm	12.7616 ppm	-0.0008 ppm	0.1360 ppm	0.0003 ppm	0.0033 ppm	0.0088 ppm
Concentration per Run 1	-0.0004 ppm	12.8031 ppm	-0.0009 ppm	0.1367 ppm	0.0003 ppm	0.0033 ppm	0.0089 ppm
Concentration per Run 2	0.0022 ppm	12.8153 ppm	-0.0006 ppm	0.1353 ppm	0.0006 ppm	0.0047 ppm	0.0087 ppm
Concentration per Run 3	0.0015 ppm	12.6665 ppm	-0.0009 ppm	0.1359 ppm	0.0001 ppm	0.0019 ppm	0.0089 ppm
Concentration RSD	124.9 %	0.6 %	18.0 %	0.5 %	64.2 %	42.4 %	1.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0008 ppm	102.1638 %	99.2886 %	98.7266 %	95.8430 %	99.3187 %	99.1008 %
Concentration per Run 1	0.0008 ppm	101.5762 %	98.4736 %	98.7798 %	93.6144 %	99.1187 %	97.9459 %
Concentration per Run 2	0.0008 ppm	101.9915 %	97.4548 %	98.6121 %	95.5384 %	99.0891 %	97.2493 %
Concentration per Run 3	0.0008 ppm	102.9236 %	101.9375 %	98.7879 %	98.3761 %	99.7481 %	102.1072 %
Concentration RSD	3.2 %	0.7 %	2.4 %	0.1 %	2.5 %	0.4 %	2.7 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453399-03 WG1974375
Analysis started at: 9/24/2024 7:15:29 PM
Comments <Comment>
Rack: 1
Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0118 ppm	-0.0009 ppm	0.0133 ppm	0.0127 ppm	0.0000 ppm	3.8639 ppm
Concentration per Run 1	-0.0004 ppm	0.0193 ppm	-0.0001 ppm	0.0130 ppm	0.0128 ppm	0.0000 ppm	3.8463 ppm
Concentration per Run 2	0.0006 ppm	0.0112 ppm	-0.0017 ppm	0.0137 ppm	0.0128 ppm	0.0001 ppm	3.8421 ppm
Concentration per Run 3	-0.0001 ppm	0.0050 ppm	-0.0010 ppm	0.0131 ppm	0.0124 ppm	0.0000 ppm	3.9032 ppm
Concentration RSD	3,408.4 %	60.4 %	83.1 %	2.8 %	2.0 %	1,126.9 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0005 ppm	0.0071 ppm	0.7063 ppm	-0.0017 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0069 ppm	0.6752 ppm	-0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0012 ppm	0.0007 ppm	0.0077 ppm	0.6768 ppm	-0.0040 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0006 ppm	0.0067 ppm	0.7670 ppm	0.0002 ppm
Concentration RSD	214.1 %	84.9 %	51.3 %	44.3 %	7.4 %	7.4 %	123.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.2080 ppm	0.0126 ppm	0.0001 ppm	17.4100 ppm	-0.0006 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	4.2297 ppm	0.0139 ppm	0.0004 ppm	17.7915 ppm	-0.0007 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 2	4.2038 ppm	0.0137 ppm	-0.0001 ppm	17.3592 ppm	-0.0006 ppm	-0.0010 ppm	-0.0008 ppm
Concentration per Run 3	4.1905 ppm	0.0102 ppm	0.0000 ppm	17.0793 ppm	-0.0005 ppm	0.0005 ppm	-0.0003 ppm
Concentration RSD	0.5 %	16.3 %	249.9 %	2.1 %	15.8 %	1,016.6 %	248.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	7.3686 ppm	-0.0007 ppm	0.0435 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0011 ppm	7.3997 ppm	-0.0009 ppm	0.0433 ppm	-0.0003 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 2	0.0017 ppm	7.3805 ppm	-0.0006 ppm	0.0437 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 3	-0.0026 ppm	7.3256 ppm	-0.0005 ppm	0.0436 ppm	-0.0002 ppm	-0.0010 ppm	0.0002 ppm
Concentration RSD	317.6 %	0.5 %	25.3 %	0.4 %	125.5 %	12,151.6 %	82.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	104.1183 %	96.7110 %	97.3208 %	95.4401 %	98.4572 %	96.8992 %
Concentration per Run 1	0.0016 ppm	104.5586 %	96.9846 %	97.5312 %	93.2927 %	98.2208 %	96.7958 %
Concentration per Run 2	0.0016 ppm	104.8247 %	96.4008 %	97.1885 %	95.9028 %	98.2234 %	96.5096 %
Concentration per Run 3	0.0016 ppm	102.9716 %	96.7476 %	97.2427 %	97.1249 %	98.9275 %	97.3924 %
Concentration RSD	0.9 %	1.0 %	0.3 %	0.2 %	2.1 %	0.4 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453399-04 WG1974375
Analysis started at: 9/24/2024 7:21:44 PM
Comments <Comment>
Rack: 1
Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0021 ppm	0.0048 ppm	0.0248 ppm	0.0291 ppm	0.1963 ppm	0.0000 ppm	16.5560 ppm
Concentration per Run 1	0.0022 ppm	-0.0027 ppm	0.0248 ppm	0.0289 ppm	0.1978 ppm	0.0000 ppm	16.4530 ppm
Concentration per Run 2	0.0019 ppm	0.0093 ppm	0.0251 ppm	0.0292 ppm	0.1944 ppm	0.0000 ppm	16.3986 ppm
Concentration per Run 3	0.0023 ppm	0.0079 ppm	0.0246 ppm	0.0291 ppm	0.1967 ppm	0.0000 ppm	16.8163 ppm
Concentration RSD	10.4 %	136.0 %	1.2 %	0.5 %	0.9 %	357.0 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0010 ppm	0.0088 ppm	-0.0011 ppm	-0.0086 ppm	130.8220 ppm	4.5880 ppm	-0.0028 ppm
Concentration per Run 1	0.0010 ppm	0.0088 ppm	-0.0009 ppm	-0.0084 ppm	129.9963 ppm	4.5606 ppm	-0.0029 ppm
Concentration per Run 2	0.0010 ppm	0.0088 ppm	-0.0012 ppm	-0.0086 ppm	129.8503 ppm	4.5153 ppm	-0.0030 ppm
Concentration per Run 3	0.0009 ppm	0.0087 ppm	-0.0011 ppm	-0.0087 ppm	132.6194 ppm	4.6881 ppm	-0.0024 ppm
Concentration RSD	4.2 %	0.9 %	18.2 %	1.7 %	1.2 %	2.0 %	12.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.7730 ppm	0.9713 ppm	-0.0014 ppm	5.3594 ppm	-0.0054 ppm	0.0009 ppm	0.0026 ppm
Concentration per Run 1	3.7529 ppm	0.9791 ppm	-0.0015 ppm	5.4068 ppm	-0.0055 ppm	0.0009 ppm	0.0035 ppm
Concentration per Run 2	3.7865 ppm	0.9615 ppm	-0.0014 ppm	5.3132 ppm	-0.0053 ppm	0.0007 ppm	0.0006 ppm
Concentration per Run 3	3.7797 ppm	0.9734 ppm	-0.0014 ppm	5.3581 ppm	-0.0052 ppm	0.0010 ppm	0.0038 ppm
Concentration RSD	0.5 %	0.9 %	3.5 %	0.9 %	2.6 %	15.8 %	67.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0004 ppm	9.3903 ppm	-0.0002 ppm	0.0775 ppm	0.0005 ppm	0.0046 ppm	0.0017 ppm
Concentration per Run 1	-0.0001 ppm	9.3866 ppm	-0.0002 ppm	0.0773 ppm	0.0003 ppm	0.0041 ppm	0.0019 ppm
Concentration per Run 2	-0.0026 ppm	9.4014 ppm	-0.0004 ppm	0.0766 ppm	0.0008 ppm	0.0031 ppm	0.0015 ppm
Concentration per Run 3	0.0016 ppm	9.3828 ppm	0.0000 ppm	0.0785 ppm	0.0003 ppm	0.0065 ppm	0.0017 ppm
Concentration RSD	585.6 %	0.1 %	81.7 %	1.3 %	51.8 %	37.7 %	12.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0006 ppm	103.6525 %	95.8651 %	96.2382 %	107.7853 %	98.9166 %	100.8343 %
Concentration per Run 1	0.0005 ppm	104.3016 %	96.2899 %	96.1935 %	107.0387 %	99.0088 %	101.3687 %
Concentration per Run 2	0.0006 ppm	104.1404 %	95.5570 %	96.2168 %	108.2726 %	98.7481 %	100.4825 %
Concentration per Run 3	0.0006 ppm	102.5153 %	95.7485 %	96.3043 %	108.0447 %	98.9930 %	100.6517 %
Concentration RSD	4.3 %	1.0 %	0.4 %	0.1 %	0.6 %	0.1 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 7:28:06 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5129 ppm	0.5052 ppm	0.4837 ppm	0.4897 ppm	0.4998 ppm	0.5069 ppm	0.4676 ppm
Concentration per Run 1	0.5133 ppm	0.5105 ppm	0.4823 ppm	0.4899 ppm	0.5119 ppm	0.5182 ppm	0.4759 ppm
Concentration per Run 2	0.5122 ppm	0.5013 ppm	0.4844 ppm	0.4894 ppm	0.4967 ppm	0.5043 ppm	0.4613 ppm
Concentration per Run 3	0.5132 ppm	0.5039 ppm	0.4845 ppm	0.4897 ppm	0.4909 ppm	0.4981 ppm	0.4656 ppm
Recovery Percentage 1	102.584 %	101.042 %	96.742 %	97.937 %	99.965 %	101.373 %	93.520 %
Concentration RSD	0.1 %	0.9 %	0.3 %	0.1 %	2.2 %	2.0 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4960 ppm	0.5051 ppm	0.5005 ppm	0.4932 ppm	0.5310 ppm	4.9131 ppm	0.5030 ppm
Concentration per Run 1	0.4964 ppm	0.5059 ppm	0.5011 ppm	0.4940 ppm	0.5460 ppm	5.0726 ppm	0.5129 ppm
Concentration per Run 2	0.4955 ppm	0.5047 ppm	0.5000 ppm	0.4927 ppm	0.5259 ppm	4.8424 ppm	0.5010 ppm
Concentration per Run 3	0.4961 ppm	0.5045 ppm	0.5003 ppm	0.4930 ppm	0.5211 ppm	4.8245 ppm	0.4950 ppm
Recovery Percentage 1	99.200 %	101.012 %	100.095 %	98.647 %	106.199 %	98.263 %	100.594 %
Concentration RSD	0.1 %	0.2 %	0.1 %	0.1 %	2.5 %	2.8 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5013 ppm	0.5050 ppm	0.4869 ppm	10.2519 ppm	0.5009 ppm	0.4988 ppm	0.4990 ppm
Concentration per Run 1	0.5027 ppm	0.5155 ppm	0.4828 ppm	10.4794 ppm	0.5007 ppm	0.4989 ppm	0.4991 ppm
Concentration per Run 2	0.5015 ppm	0.5029 ppm	0.4871 ppm	10.2118 ppm	0.5006 ppm	0.4980 ppm	0.4973 ppm
Concentration per Run 3	0.4997 ppm	0.4966 ppm	0.4906 ppm	10.0644 ppm	0.5013 ppm	0.4995 ppm	0.5007 ppm
Recovery Percentage 1	100.261 %	100.997 %	97.372 %	102.519 %	100.172 %	99.762 %	99.808 %
Concentration RSD	0.3 %	1.9 %	0.8 %	2.1 %	0.1 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4936 ppm	5.4126 ppm	0.4626 ppm	0.4435 ppm	0.4988 ppm	0.5024 ppm	0.4894 ppm
Concentration per Run 1	0.4934 ppm	5.4155 ppm	0.4625 ppm	0.4560 ppm	0.5004 ppm	0.5025 ppm	0.4898 ppm
Concentration per Run 2	0.4935 ppm	5.4094 ppm	0.4621 ppm	0.4369 ppm	0.4978 ppm	0.5013 ppm	0.4892 ppm
Concentration per Run 3	0.4940 ppm	5.4130 ppm	0.4632 ppm	0.4376 ppm	0.4983 ppm	0.5033 ppm	0.4892 ppm
Recovery Percentage 1	98.723 %	103.097 %	92.511 %	88.699 %	99.766 %	100.478 %	97.880 %
Concentration RSD	0.1 %	0.1 %	0.1 %	2.4 %	0.3 %	0.2 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5009 ppm	98.1609 %	96.2331 %	96.9075 %	100.6947 %	100.2204 %	99.6452 %
Concentration per Run 1	0.5008 ppm	95.5102 %	96.3277 %	96.8220 %	98.5635 %	100.1884 %	99.6449 %
Concentration per Run 2	0.5008 ppm	99.0269 %	96.0733 %	96.8455 %	100.6437 %	100.2363 %	99.4571 %
Concentration per Run 3	0.5012 ppm	99.9457 %	96.2981 %	97.0551 %	102.8768 %	100.2367 %	99.8336 %
Recovery Percentage 1	100.186 %						
Concentration RSD	0.0 %	2.4 %	0.1 %	0.1 %	2.1 %	0.0 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 7:34:09 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0011 ppm	0.0001 ppm	0.0011 ppm	0.0003 ppm	0.0002 ppm	0.0069 ppm
Concentration per Run 1	0.0001 ppm	-0.0070 ppm	-0.0008 ppm	0.0009 ppm	0.0001 ppm	0.0003 ppm	0.0078 ppm
Concentration per Run 2	0.0001 ppm	0.0070 ppm	-0.0004 ppm	0.0009 ppm	0.0003 ppm	0.0002 ppm	0.0032 ppm
Concentration per Run 3	-0.0002 ppm	-0.0031 ppm	0.0015 ppm	0.0014 ppm	0.0005 ppm	0.0001 ppm	0.0096 ppm
Recovery Percentage 1	0.451 %	-1.050 %	1.788 %	3.628 %	2.967 %	3.579 %	6.878 %
Concentration RSD	539.9 %	686.6 %	1,388.8 %	27.9 %	62.4 %	69.3 %	47.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0134 ppm	-0.0184 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0007 ppm	0.0191 ppm	-0.0245 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0107 ppm	-0.0191 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	-0.0001 ppm	0.0102 ppm	-0.0115 ppm	-0.0009 ppm
Recovery Percentage 1	0.196 %	-0.068 %	-3.950 %	1.511 %	26.711 %	-0.735 %	-2.978 %
Concentration RSD	364.0 %	791.4 %	37.1 %	324.5 %	37.4 %	35.7 %	272.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0014 ppm	0.0002 ppm	0.0021 ppm	-0.0179 ppm	-0.0002 ppm	0.0001 ppm	0.0021 ppm
Concentration per Run 1	-0.0009 ppm	0.0004 ppm	0.0027 ppm	-0.0116 ppm	-0.0002 ppm	0.0001 ppm	0.0032 ppm
Concentration per Run 2	0.0024 ppm	0.0001 ppm	0.0020 ppm	-0.0112 ppm	-0.0002 ppm	0.0005 ppm	0.0017 ppm
Concentration per Run 3	0.0028 ppm	0.0000 ppm	0.0017 ppm	-0.0308 ppm	-0.0002 ppm	-0.0004 ppm	0.0014 ppm
Recovery Percentage 1	1.424 %	1.631 %	4.253 %	-0.894 %	-0.871 %	0.523 %	4.232 %
Concentration RSD	140.1 %	102.5 %	24.4 %	62.5 %	13.0 %	779.8 %	46.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	0.0028 ppm	-0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0017 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0027 ppm	-0.0006 ppm	0.0005 ppm	0.0002 ppm	0.0022 ppm	0.0005 ppm
Concentration per Run 2	0.0029 ppm	0.0032 ppm	-0.0013 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0009 ppm	0.0024 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0026 ppm	0.0003 ppm
Recovery Percentage 1	12.770 %	0.558 %	-1.227 %	2.231 %	0.458 %	8.599 %	3.737 %
Concentration RSD	112.1 %	13.6 %	108.4 %	124.7 %	514.1 %	68.5 %	33.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	98.2210 %	96.0174 %	96.6307 %	96.7283 %	98.4476 %	97.0908 %
Concentration per Run 1	0.0000 ppm	97.6131 %	95.6192 %	96.7176 %	95.2305 %	98.2531 %	96.5352 %
Concentration per Run 2	0.0002 ppm	97.9950 %	95.9575 %	96.4625 %	96.4873 %	98.4326 %	97.1270 %
Concentration per Run 3	0.0001 ppm	99.0549 %	96.4754 %	96.7122 %	98.4671 %	98.6570 %	97.6104 %
Recovery Percentage 1	1.857 %						
Concentration RSD	114.5 %	0.8 %	0.4 %	0.2 %	1.7 %	0.2 %	0.6 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974375-1 WG1974375
Analysis started at: 9/24/2024 8:01:56 PM
Comments <Comment>
Rack: 1
Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0006 ppm	0.0049 ppm	-0.0008 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 1	0.0000 ppm	-0.0015 ppm	-0.0010 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 2	0.0013 ppm	0.0102 ppm	-0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 3	0.0004 ppm	0.0059 ppm	-0.0004 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0031 ppm
Recovery Percentage 1	7.982 %	4.866 %	-15.136 %	0.317 %	2.701 %	0.034 %	3.118 %
Concentration RSD	124.0 %	121.6 %	38.0 %	44.3 %	58.2 %	3,028.6 %	32.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0005 ppm	-0.0037 ppm	-0.0388 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0015 ppm	0.0004 ppm	-0.0041 ppm	0.0440 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0011 ppm	-0.0027 ppm	-0.0506 ppm	-0.0030 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0001 ppm	-0.0042 ppm	-0.1099 ppm	0.0016 ppm
Recovery Percentage 1	-0.417 %	-0.294 %	-9.751 %	5.377 %	-7.347 %	-1.554 %	-3.058 %
Concentration RSD	289.1 %	354.5 %	68.1 %	93.6 %	23.0 %	199.8 %	778.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0011 ppm	-0.0002 ppm	0.0001 ppm	-0.0323 ppm	-0.0009 ppm	-0.0003 ppm	0.0005 ppm
Concentration per Run 1	0.0015 ppm	-0.0001 ppm	0.0002 ppm	-0.0439 ppm	-0.0011 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0000 ppm	-0.0186 ppm	-0.0010 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0018 ppm	0.0000 ppm	0.0001 ppm	-0.0343 ppm	-0.0005 ppm	0.0000 ppm	0.0015 ppm
Recovery Percentage 1	1.106 %	-2.238 %	0.161 %	-1.613 %	-3.409 %	-2.597 %	0.916 %
Concentration RSD	86.3 %	136.9 %	91.9 %	39.7 %	38.1 %	117.8 %	189.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	0.0008 ppm	-0.0007 ppm	0.0002 ppm	-0.0002 ppm	0.0013 ppm	0.0002 ppm
Concentration per Run 1	0.0013 ppm	0.0014 ppm	-0.0006 ppm	0.0002 ppm	0.0003 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 2	0.0023 ppm	-0.0003 ppm	-0.0011 ppm	0.0002 ppm	-0.0004 ppm	0.0017 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0013 ppm	-0.0005 ppm	0.0001 ppm	-0.0006 ppm	0.0008 ppm	0.0001 ppm
Recovery Percentage 1	12.469 %	0.163 %	-1.441 %	1.722 %	-2.257 %	6.543 %	1.899 %
Concentration RSD	87.5 %	117.8 %	40.6 %	29.4 %	201.6 %	36.9 %	46.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	102.5578 %	98.4158 %	99.5013 %	92.0271 %	98.9716 %	96.1693 %
Concentration per Run 1	0.0003 ppm	99.2053 %	98.7545 %	99.5232 %	86.8873 %	98.0535 %	96.1249 %
Concentration per Run 2	0.0003 ppm	105.4265 %	97.6953 %	99.4719 %	94.2464 %	98.9431 %	95.4803 %
Concentration per Run 3	0.0003 ppm	103.0415 %	98.7977 %	99.5088 %	94.9474 %	99.9182 %	96.9029 %
Recovery Percentage 1	5.737 %						
Concentration RSD	7.9 %	3.1 %	0.6 %	0.0 %	4.9 %	0.9 %	0.7 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974375-2 WG1974375
Analysis started at: 9/24/2024 8:08:13 PM
Comments <Comment>
Rack: 1
Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0535 ppm	2.1655 ppm	0.1173 ppm	0.9600 ppm	2.1441 ppm	0.0555 ppm	9.4600 ppm
Concentration per Run 1	0.0531 ppm	2.2534 ppm	0.1163 ppm	0.9618 ppm	2.2276 ppm	0.0576 ppm	9.6790 ppm
Concentration per Run 2	0.0536 ppm	2.1828 ppm	0.1181 ppm	0.9615 ppm	2.1704 ppm	0.0562 ppm	9.6537 ppm
Concentration per Run 3	0.0538 ppm	2.0603 ppm	0.1174 ppm	0.9567 ppm	2.0341 ppm	0.0527 ppm	9.0473 ppm
Concentration RSD	0.7 %	4.5 %	0.8 %	0.3 %	4.6 %	4.5 %	3.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0535 ppm	0.4966 ppm	0.2035 ppm	0.2556 ppm	0.9530 ppm	9.9477 ppm	-0.0012 ppm
Concentration per Run 1	0.0537 ppm	0.4979 ppm	0.2036 ppm	0.2561 ppm	0.9713 ppm	10.1807 ppm	-0.0015 ppm
Concentration per Run 2	0.0536 ppm	0.4970 ppm	0.2041 ppm	0.2559 ppm	0.9736 ppm	10.1735 ppm	-0.0010 ppm
Concentration per Run 3	0.0533 ppm	0.4948 ppm	0.2029 ppm	0.2548 ppm	0.9140 ppm	9.4890 ppm	-0.0011 ppm
Concentration RSD	0.4 %	0.3 %	0.3 %	0.3 %	3.5 %	4.0 %	22.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.1342 ppm	0.5537 ppm	0.9023 ppm	11.1083 ppm	0.4973 ppm	0.5363 ppm	0.4810 ppm
Concentration per Run 1	10.1589 ppm	0.5731 ppm	0.8801 ppm	11.5227 ppm	0.4979 ppm	0.5376 ppm	0.4774 ppm
Concentration per Run 2	10.1542 ppm	0.5626 ppm	0.9055 ppm	11.2551 ppm	0.4981 ppm	0.5362 ppm	0.4819 ppm
Concentration per Run 3	10.0895 ppm	0.5255 ppm	0.9212 ppm	10.5469 ppm	0.4961 ppm	0.5350 ppm	0.4835 ppm
Concentration RSD	0.4 %	4.5 %	2.3 %	4.5 %	0.2 %	0.2 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1178 ppm	0.6264 ppm	0.9364 ppm	0.9110 ppm	1.0146 ppm	0.1216 ppm	0.5039 ppm
Concentration per Run 1	0.1194 ppm	0.6263 ppm	0.9384 ppm	0.9328 ppm	1.0165 ppm	0.1210 ppm	0.5057 ppm
Concentration per Run 2	0.1199 ppm	0.6285 ppm	0.9374 ppm	0.9300 ppm	1.0151 ppm	0.1218 ppm	0.5033 ppm
Concentration per Run 3	0.1142 ppm	0.6244 ppm	0.9334 ppm	0.8701 ppm	1.0123 ppm	0.1220 ppm	0.5027 ppm
Concentration RSD	2.7 %	0.3 %	0.3 %	3.9 %	0.2 %	0.4 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5015 ppm	96.0946 %	96.1902 %	96.9973 %	93.1114 %	100.0326 %	98.3573 %
Concentration per Run 1	0.5028 ppm	93.9597 %	96.3653 %	96.8806 %	89.7661 %	99.6154 %	98.2108 %
Concentration per Run 2	0.5022 ppm	94.0756 %	95.8148 %	97.0397 %	91.8116 %	99.9344 %	97.9134 %
Concentration per Run 3	0.4994 ppm	100.2483 %	96.3906 %	97.0716 %	97.7565 %	100.5481 %	98.9476 %
Concentration RSD	0.4 %	3.7 %	0.3 %	0.1 %	4.5 %	0.5 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453356-03 WG1974375
Analysis started at: 9/24/2024 8:14:20 PM
Comments <Comment>
Rack: 1
Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	2.9237 ppm	0.0071 ppm	0.0526 ppm	0.0185 ppm	0.0104 ppm	53.5700 ppm
Concentration per Run 1	0.0006 ppm	2.9812 ppm	0.0076 ppm	0.0526 ppm	0.0185 ppm	0.0106 ppm	54.1374 ppm
Concentration per Run 2	0.0000 ppm	2.9223 ppm	0.0073 ppm	0.0527 ppm	0.0185 ppm	0.0104 ppm	53.1189 ppm
Concentration per Run 3	0.0009 ppm	2.8675 ppm	0.0064 ppm	0.0523 ppm	0.0183 ppm	0.0102 ppm	53.4538 ppm
Concentration RSD	96.9 %	1.9 %	8.6 %	0.4 %	0.6 %	1.9 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0007 ppm	0.0573 ppm	0.0001 ppm	0.0047 ppm	0.0064 ppm	8.2799 ppm	0.0439 ppm
Concentration per Run 1	0.0007 ppm	0.0574 ppm	-0.0003 ppm	0.0044 ppm	0.0057 ppm	8.3966 ppm	0.0449 ppm
Concentration per Run 2	0.0007 ppm	0.0575 ppm	0.0005 ppm	0.0053 ppm	0.0061 ppm	8.1884 ppm	0.0442 ppm
Concentration per Run 3	0.0006 ppm	0.0571 ppm	0.0002 ppm	0.0044 ppm	0.0075 ppm	8.2546 ppm	0.0425 ppm
Concentration RSD	0.6 %	0.4 %	321.0 %	10.2 %	14.0 %	1.3 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.6649 ppm	1.6381 ppm	0.0060 ppm	3.1759 ppm	0.0407 ppm	0.0013 ppm	0.0035 ppm
Concentration per Run 1	2.6399 ppm	1.6696 ppm	0.0068 ppm	3.2414 ppm	0.0412 ppm	0.0012 ppm	0.0035 ppm
Concentration per Run 2	2.7042 ppm	1.6335 ppm	0.0062 ppm	3.1780 ppm	0.0407 ppm	0.0015 ppm	0.0032 ppm
Concentration per Run 3	2.6506 ppm	1.6111 ppm	0.0050 ppm	3.1083 ppm	0.0401 ppm	0.0013 ppm	0.0038 ppm
Concentration RSD	1.3 %	1.8 %	15.0 %	2.1 %	1.4 %	13.9 %	9.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	30.9258 ppm	0.0012 ppm	0.2089 ppm	0.0009 ppm	0.0028 ppm	0.0023 ppm
Concentration per Run 1	0.0010 ppm	30.9387 ppm	0.0019 ppm	0.2111 ppm	0.0009 ppm	0.0039 ppm	0.0025 ppm
Concentration per Run 2	0.0018 ppm	30.9411 ppm	0.0007 ppm	0.2073 ppm	0.0012 ppm	0.0022 ppm	0.0023 ppm
Concentration per Run 3	0.0018 ppm	30.8977 ppm	0.0010 ppm	0.2082 ppm	0.0007 ppm	0.0021 ppm	0.0022 ppm
Concentration RSD	31.5 %	0.1 %	52.3 %	0.9 %	30.0 %	35.9 %	5.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0386 ppm	116.2842 %	112.9046 %	113.1024 %	96.6306 %	99.3580 %	99.8778 %
Concentration per Run 1	0.0387 ppm	115.4179 %	113.8466 %	113.2396 %	94.9884 %	99.1500 %	100.3584 %
Concentration per Run 2	0.0386 ppm	117.3140 %	111.7356 %	113.0963 %	96.9974 %	99.3307 %	98.8878 %
Concentration per Run 3	0.0385 ppm	116.1206 %	113.1317 %	112.9713 %	97.9061 %	99.5933 %	100.3872 %
Concentration RSD	0.3 %	0.8 %	1.0 %	0.1 %	1.5 %	0.2 %	0.9 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453356-04 WG1974375
Analysis started at: 9/24/2024 8:20:29 PM
Comments <Comment>
Rack: 1
Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0285 ppm	0.0001 ppm	0.0357 ppm	0.0033 ppm	0.0000 ppm	41.3730 ppm
Concentration per Run 1	0.0004 ppm	0.0277 ppm	0.0005 ppm	0.0359 ppm	0.0034 ppm	0.0000 ppm	41.7327 ppm
Concentration per Run 2	-0.0008 ppm	0.0261 ppm	-0.0001 ppm	0.0358 ppm	0.0031 ppm	0.0000 ppm	41.0709 ppm
Concentration per Run 3	0.0001 ppm	0.0316 ppm	0.0001 ppm	0.0354 ppm	0.0033 ppm	0.0000 ppm	41.3153 ppm
Concentration RSD	513.3 %	10.0 %	222.9 %	0.8 %	5.3 %	191.3 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0006 ppm	0.0168 ppm	0.0138 ppm	3.8028 ppm	0.0083 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0006 ppm	0.0170 ppm	0.0156 ppm	3.8317 ppm	0.0086 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0006 ppm	0.0170 ppm	0.0118 ppm	3.7676 ppm	0.0080 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	-0.0007 ppm	0.0165 ppm	0.0141 ppm	3.8090 ppm	0.0083 ppm
Concentration RSD	60.6 %	25.6 %	7.2 %	1.6 %	14.0 %	0.9 %	3.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.6081 ppm	0.0060 ppm	0.0016 ppm	1.2616 ppm	0.0075 ppm	0.0093 ppm	0.0073 ppm
Concentration per Run 1	1.5942 ppm	0.0064 ppm	0.0019 ppm	1.2806 ppm	0.0076 ppm	0.0086 ppm	0.0084 ppm
Concentration per Run 2	1.6193 ppm	0.0055 ppm	0.0017 ppm	1.2587 ppm	0.0075 ppm	0.0092 ppm	0.0054 ppm
Concentration per Run 3	1.6107 ppm	0.0060 ppm	0.0014 ppm	1.2455 ppm	0.0074 ppm	0.0099 ppm	0.0081 ppm
Concentration RSD	0.8 %	7.0 %	13.6 %	1.4 %	1.2 %	7.1 %	22.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0023 ppm	2.0583 ppm	-0.0003 ppm	0.0630 ppm	0.0006 ppm	0.0011 ppm	0.0006 ppm
Concentration per Run 1	0.0024 ppm	2.0763 ppm	0.0001 ppm	0.0637 ppm	0.0009 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 2	0.0039 ppm	2.0639 ppm	0.0000 ppm	0.0625 ppm	0.0004 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 3	0.0006 ppm	2.0347 ppm	-0.0009 ppm	0.0629 ppm	0.0005 ppm	0.0021 ppm	0.0007 ppm
Concentration RSD	72.3 %	1.0 %	189.6 %	0.9 %	37.8 %	98.9 %	48.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2338 ppm	101.9734 %	98.7583 %	98.6000 %	95.7144 %	99.2316 %	99.0557 %
Concentration per Run 1	0.2354 ppm	101.1154 %	99.7865 %	98.6421 %	93.5916 %	98.7598 %	99.9504 %
Concentration per Run 2	0.2347 ppm	102.5020 %	97.7555 %	98.2556 %	95.5627 %	98.8554 %	98.0389 %
Concentration per Run 3	0.2313 ppm	102.3027 %	98.7328 %	98.9022 %	97.9887 %	100.0796 %	99.1778 %
Concentration RSD	0.9 %	0.7 %	1.0 %	0.3 %	2.3 %	0.7 %	1.0 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453356-05 WG1974375
Analysis started at: 9/24/2024 8:26:40 PM
Comments <Comment>
Rack: 1
Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0562 ppm	0.0010 ppm	0.0563 ppm	0.0082 ppm	0.0003 ppm	96.2496 ppm
Concentration per Run 1	-0.0006 ppm	0.0616 ppm	0.0033 ppm	0.0565 ppm	0.0084 ppm	0.0002 ppm	97.1804 ppm
Concentration per Run 2	0.0001 ppm	0.0499 ppm	-0.0002 ppm	0.0561 ppm	0.0082 ppm	0.0003 ppm	95.4386 ppm
Concentration per Run 3	0.0001 ppm	0.0572 ppm	0.0000 ppm	0.0561 ppm	0.0081 ppm	0.0003 ppm	96.1297 ppm
Concentration RSD	311.6 %	10.5 %	190.2 %	0.4 %	1.4 %	33.4 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0144 ppm	0.0003 ppm	0.0045 ppm	0.0089 ppm	18.0388 ppm	-0.0002 ppm
Concentration per Run 1	0.0004 ppm	0.0143 ppm	0.0003 ppm	0.0046 ppm	0.0070 ppm	18.2336 ppm	0.0008 ppm
Concentration per Run 2	0.0004 ppm	0.0144 ppm	0.0007 ppm	0.0044 ppm	0.0112 ppm	17.8524 ppm	0.0017 ppm
Concentration per Run 3	0.0003 ppm	0.0144 ppm	-0.0001 ppm	0.0045 ppm	0.0086 ppm	18.0303 ppm	-0.0031 ppm
Concentration RSD	3.4 %	0.7 %	135.1 %	2.5 %	23.7 %	1.1 %	1,277.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	8.4861 ppm	2.2509 ppm	0.0006 ppm	5.5802 ppm	0.0234 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 1	8.5030 ppm	2.2950 ppm	0.0005 ppm	5.6927 ppm	0.0236 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 2	8.4898 ppm	2.2455 ppm	0.0008 ppm	5.5746 ppm	0.0237 ppm	-0.0001 ppm	0.0018 ppm
Concentration per Run 3	8.4654 ppm	2.2121 ppm	0.0005 ppm	5.4733 ppm	0.0229 ppm	-0.0001 ppm	0.0000 ppm
Concentration RSD	0.2 %	1.9 %	31.3 %	2.0 %	1.7 %	314.5 %	117.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	16.3612 ppm	-0.0004 ppm	0.3050 ppm	0.0008 ppm	0.0012 ppm	0.0036 ppm
Concentration per Run 1	0.0008 ppm	16.4439 ppm	0.0001 ppm	0.3070 ppm	0.0006 ppm	0.0007 ppm	0.0039 ppm
Concentration per Run 2	-0.0011 ppm	16.3340 ppm	-0.0008 ppm	0.3027 ppm	0.0011 ppm	0.0019 ppm	0.0032 ppm
Concentration per Run 3	-0.0015 ppm	16.3056 ppm	-0.0005 ppm	0.3053 ppm	0.0007 ppm	0.0010 ppm	0.0035 ppm
Concentration RSD	211.2 %	0.4 %	112.2 %	0.7 %	34.8 %	52.6 %	11.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0410 ppm	99.8754 %	95.5892 %	96.6463 %	93.7858 %	95.9753 %	95.8292 %
Concentration per Run 1	0.0413 ppm	98.4770 %	95.8325 %	96.8172 %	91.2786 %	95.5519 %	95.6936 %
Concentration per Run 2	0.0408 ppm	100.6928 %	95.5720 %	96.5746 %	94.0239 %	95.9943 %	95.8070 %
Concentration per Run 3	0.0408 ppm	100.4564 %	95.3632 %	96.5473 %	96.0549 %	96.3796 %	95.9871 %
Concentration RSD	0.7 %	1.2 %	0.2 %	0.2 %	2.6 %	0.4 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453399-02 WG1974375
Analysis started at: 9/24/2024 8:32:51 PM
Comments <Comment>
Rack: 1
Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0406 ppm	0.0021 ppm	0.0967 ppm	0.1456 ppm	0.0000 ppm	30.5987 ppm
Concentration per Run 1	0.0006 ppm	0.0342 ppm	0.0037 ppm	0.0972 ppm	0.1480 ppm	0.0001 ppm	30.5352 ppm
Concentration per Run 2	0.0003 ppm	0.0414 ppm	0.0021 ppm	0.0964 ppm	0.1458 ppm	0.0000 ppm	30.6151 ppm
Concentration per Run 3	-0.0005 ppm	0.0462 ppm	0.0004 ppm	0.0965 ppm	0.1430 ppm	0.0000 ppm	30.6457 ppm
Concentration RSD	382.4 %	14.9 %	82.2 %	0.5 %	1.7 %	1,754.0 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0015 ppm	0.0005 ppm	0.0020 ppm	2.2326 ppm	25.0579 ppm	-0.0017 ppm
Concentration per Run 1	0.0001 ppm	0.0017 ppm	0.0003 ppm	0.0022 ppm	2.2090 ppm	25.0356 ppm	-0.0023 ppm
Concentration per Run 2	0.0001 ppm	0.0015 ppm	0.0009 ppm	0.0022 ppm	2.2335 ppm	24.9919 ppm	-0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0014 ppm	0.0003 ppm	0.0018 ppm	2.2553 ppm	25.1462 ppm	-0.0017 ppm
Concentration RSD	26.2 %	9.5 %	68.5 %	9.8 %	1.0 %	0.3 %	35.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.8031 ppm	0.3063 ppm	0.0005 ppm	12.9487 ppm	0.0006 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 1	11.8437 ppm	0.3132 ppm	0.0005 ppm	13.1962 ppm	0.0004 ppm	-0.0002 ppm	0.0015 ppm
Concentration per Run 2	11.7893 ppm	0.3061 ppm	0.0003 ppm	12.9303 ppm	0.0009 ppm	-0.0001 ppm	0.0022 ppm
Concentration per Run 3	11.7763 ppm	0.2995 ppm	0.0006 ppm	12.7197 ppm	0.0006 ppm	0.0003 ppm	-0.0008 ppm
Concentration RSD	0.3 %	2.2 %	38.0 %	1.8 %	42.5 %	11,939.7 %	162.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0028 ppm	8.1821 ppm	-0.0007 ppm	0.2003 ppm	0.0026 ppm	0.0017 ppm	0.0012 ppm
Concentration per Run 1	0.0013 ppm	8.2092 ppm	-0.0012 ppm	0.1995 ppm	0.0029 ppm	0.0030 ppm	0.0011 ppm
Concentration per Run 2	0.0050 ppm	8.1942 ppm	-0.0003 ppm	0.2001 ppm	0.0025 ppm	0.0001 ppm	0.0011 ppm
Concentration per Run 3	0.0021 ppm	8.1430 ppm	-0.0006 ppm	0.2015 ppm	0.0024 ppm	0.0020 ppm	0.0013 ppm
Concentration RSD	68.7 %	0.4 %	63.7 %	0.5 %	10.6 %	86.4 %	10.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0021 ppm	102.4005 %	94.7779 %	95.7844 %	95.1941 %	96.2710 %	95.5497 %
Concentration per Run 1	0.0021 ppm	101.9990 %	94.6218 %	95.8814 %	92.7406 %	95.9735 %	95.0464 %
Concentration per Run 2	0.0021 ppm	103.1361 %	94.8120 %	95.7326 %	95.9245 %	96.1925 %	95.6884 %
Concentration per Run 3	0.0020 ppm	102.0663 %	94.9001 %	95.7391 %	96.9171 %	96.6470 %	95.9142 %
Concentration RSD	2.0 %	0.6 %	0.2 %	0.1 %	2.3 %	0.4 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974375-3 WG1974375
Analysis started at: 9/24/2024 8:39:02 PM
Comments <Comment>
Rack: 1
Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0530 ppm	2.1122 ppm	0.1265 ppm	1.0961 ppm	2.2027 ppm	0.0539 ppm	39.0588 ppm
Concentration per Run 1	0.0534 ppm	2.1506 ppm	0.1281 ppm	1.0952 ppm	2.2435 ppm	0.0547 ppm	38.9138 ppm
Concentration per Run 2	0.0530 ppm	2.1084 ppm	0.1264 ppm	1.0974 ppm	2.2048 ppm	0.0542 ppm	39.0904 ppm
Concentration per Run 3	0.0525 ppm	2.0777 ppm	0.1250 ppm	1.0956 ppm	2.1599 ppm	0.0530 ppm	39.1723 ppm
Concentration RSD	0.9 %	1.7 %	1.2 %	0.1 %	1.9 %	1.7 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0546 ppm	0.5052 ppm	0.2061 ppm	0.2614 ppm	2.9552 ppm	33.7128 ppm	-0.0012 ppm
Concentration per Run 1	0.0546 ppm	0.5055 ppm	0.2070 ppm	0.2621 ppm	2.9209 ppm	33.5306 ppm	-0.0028 ppm
Concentration per Run 2	0.0547 ppm	0.5056 ppm	0.2064 ppm	0.2614 ppm	2.9588 ppm	33.7179 ppm	0.0008 ppm
Concentration per Run 3	0.0544 ppm	0.5044 ppm	0.2049 ppm	0.2609 ppm	2.9859 ppm	33.8899 ppm	-0.0017 ppm
Concentration RSD	0.3 %	0.1 %	0.5 %	0.2 %	1.1 %	0.5 %	148.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	21.4940 ppm	0.8160 ppm	0.8959 ppm	22.9629 ppm	0.5031 ppm	0.5394 ppm	0.5060 ppm
Concentration per Run 1	21.5372 ppm	0.8294 ppm	0.8673 ppm	23.3638 ppm	0.5034 ppm	0.5391 ppm	0.5038 ppm
Concentration per Run 2	21.5151 ppm	0.8185 ppm	0.8997 ppm	22.9987 ppm	0.5034 ppm	0.5398 ppm	0.5064 ppm
Concentration per Run 3	21.4297 ppm	0.8001 ppm	0.9206 ppm	22.5262 ppm	0.5025 ppm	0.5393 ppm	0.5078 ppm
Concentration RSD	0.3 %	1.8 %	3.0 %	1.8 %	0.1 %	0.1 %	0.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1237 ppm	8.6305 ppm	0.9571 ppm	1.0565 ppm	1.0373 ppm	0.1212 ppm	0.5144 ppm
Concentration per Run 1	0.1224 ppm	8.6333 ppm	0.9552 ppm	1.0499 ppm	1.0393 ppm	0.1205 ppm	0.5153 ppm
Concentration per Run 2	0.1253 ppm	8.6428 ppm	0.9590 ppm	1.0573 ppm	1.0385 ppm	0.1206 ppm	0.5149 ppm
Concentration per Run 3	0.1235 ppm	8.6155 ppm	0.9571 ppm	1.0623 ppm	1.0340 ppm	0.1226 ppm	0.5131 ppm
Concentration RSD	1.2 %	0.2 %	0.2 %	0.6 %	0.3 %	1.0 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5147 ppm	101.7974 %	94.1249 %	94.9194 %	97.0359 %	96.9477 %	96.6423 %
Concentration per Run 1	0.5151 ppm	101.8833 %	93.9177 %	94.8963 %	94.9105 %	97.0455 %	96.2000 %
Concentration per Run 2	0.5153 ppm	101.9318 %	94.2902 %	94.9469 %	97.0594 %	96.8844 %	96.7259 %
Concentration per Run 3	0.5138 ppm	101.5769 %	94.1667 %	94.9150 %	99.1378 %	96.9131 %	97.0010 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.0 %	2.2 %	0.1 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974375-4 WG1974375
Analysis started at: 9/24/2024 8:45:08 PM
Comments <Comment>
Rack: 1
Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0535 ppm	2.1979 ppm	0.1264 ppm	1.1045 ppm	2.2798 ppm	0.0559 ppm	40.6493 ppm
Concentration per Run 1	0.0529 ppm	2.2957 ppm	0.1262 ppm	1.1074 ppm	2.3926 ppm	0.0586 ppm	42.0133 ppm
Concentration per Run 2	0.0530 ppm	2.1794 ppm	0.1249 ppm	1.1002 ppm	2.2528 ppm	0.0552 ppm	40.0843 ppm
Concentration per Run 3	0.0546 ppm	2.1186 ppm	0.1281 ppm	1.1057 ppm	2.1938 ppm	0.0540 ppm	39.8502 ppm
Concentration RSD	1.8 %	4.1 %	1.3 %	0.3 %	4.5 %	4.3 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0545 ppm	0.5048 ppm	0.2077 ppm	0.2618 ppm	3.0489 ppm	35.1188 ppm	-0.0002 ppm
Concentration per Run 1	0.0547 ppm	0.5062 ppm	0.2089 ppm	0.2624 ppm	3.1364 ppm	36.3266 ppm	-0.0008 ppm
Concentration per Run 2	0.0543 ppm	0.5031 ppm	0.2070 ppm	0.2617 ppm	3.0037 ppm	34.6215 ppm	0.0006 ppm
Concentration per Run 3	0.0545 ppm	0.5053 ppm	0.2072 ppm	0.2614 ppm	3.0064 ppm	34.4083 ppm	-0.0006 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.2 %	2.5 %	3.0 %	315.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	21.6750 ppm	0.8277 ppm	0.9115 ppm	23.7913 ppm	0.5036 ppm	0.5441 ppm	0.5050 ppm
Concentration per Run 1	21.7871 ppm	0.8673 ppm	0.8870 ppm	24.9608 ppm	0.5057 ppm	0.5453 ppm	0.5047 ppm
Concentration per Run 2	21.6489 ppm	0.8181 ppm	0.9104 ppm	23.5132 ppm	0.5018 ppm	0.5419 ppm	0.5018 ppm
Concentration per Run 3	21.5889 ppm	0.7976 ppm	0.9372 ppm	22.8998 ppm	0.5032 ppm	0.5451 ppm	0.5085 ppm
Concentration RSD	0.5 %	4.3 %	2.8 %	4.4 %	0.4 %	0.3 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1234 ppm	8.6142 ppm	0.9672 ppm	1.1056 ppm	1.0497 ppm	0.1222 ppm	0.5152 ppm
Concentration per Run 1	0.1213 ppm	8.6465 ppm	0.9694 ppm	1.1428 ppm	1.0520 ppm	0.1221 ppm	0.5165 ppm
Concentration per Run 2	0.1266 ppm	8.5754 ppm	0.9625 ppm	1.0911 ppm	1.0489 ppm	0.1222 ppm	0.5157 ppm
Concentration per Run 3	0.1222 ppm	8.6207 ppm	0.9697 ppm	1.0830 ppm	1.0482 ppm	0.1222 ppm	0.5134 ppm
Concentration RSD	2.3 %	0.4 %	0.4 %	2.9 %	0.2 %	0.0 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5146 ppm	98.1818 %	93.3869 %	94.8879 %	94.1843 %	96.6788 %	95.6927 %
Concentration per Run 1	0.5168 ppm	95.0755 %	93.1424 %	94.9071 %	89.7769 %	96.3465 %	95.1436 %
Concentration per Run 2	0.5130 ppm	99.3999 %	93.4419 %	94.4807 %	95.1528 %	96.7825 %	95.7638 %
Concentration per Run 3	0.5141 ppm	100.0699 %	93.5766 %	95.2758 %	97.6231 %	96.9076 %	96.1706 %
Concentration RSD	0.4 %	2.8 %	0.2 %	0.4 %	4.3 %	0.3 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974375-5 WG1974375
Analysis started at: 9/24/2024 8:51:14 PM
Comments <Comment>
Rack: 1
Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0518 ppm	2.1797 ppm	0.1281 ppm	1.1552 ppm	2.2527 ppm	0.0551 ppm	39.2274 ppm
Concentration per Run 1	0.0524 ppm	2.2389 ppm	0.1271 ppm	1.1575 ppm	2.3132 ppm	0.0563 ppm	39.4471 ppm
Concentration per Run 2	0.0516 ppm	2.1697 ppm	0.1294 ppm	1.1534 ppm	2.2438 ppm	0.0550 ppm	38.8938 ppm
Concentration per Run 3	0.0514 ppm	2.1304 ppm	0.1278 ppm	1.1546 ppm	2.2012 ppm	0.0540 ppm	39.3412 ppm
Concentration RSD	1.0 %	2.5 %	0.9 %	0.2 %	2.5 %	2.2 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0562 ppm	0.5209 ppm	0.2123 ppm	0.2692 ppm	3.1128 ppm	33.8692 ppm	-0.0008 ppm
Concentration per Run 1	0.0564 ppm	0.5222 ppm	0.2138 ppm	0.2694 ppm	3.1133 ppm	34.0918 ppm	0.0037 ppm
Concentration per Run 2	0.0560 ppm	0.5206 ppm	0.2135 ppm	0.2700 ppm	3.0882 ppm	33.6029 ppm	-0.0029 ppm
Concentration per Run 3	0.0562 ppm	0.5199 ppm	0.2097 ppm	0.2683 ppm	3.1368 ppm	33.9130 ppm	-0.0034 ppm
Concentration RSD	0.3 %	0.2 %	1.1 %	0.3 %	0.8 %	0.7 %	482.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	21.8691 ppm	0.8266 ppm	0.9568 ppm	23.5035 ppm	0.5188 ppm	0.5526 ppm	0.4982 ppm
Concentration per Run 1	21.9808 ppm	0.8471 ppm	0.9291 ppm	24.1168 ppm	0.5203 ppm	0.5537 ppm	0.4922 ppm
Concentration per Run 2	21.9312 ppm	0.8242 ppm	0.9576 ppm	23.4290 ppm	0.5185 ppm	0.5521 ppm	0.4998 ppm
Concentration per Run 3	21.6954 ppm	0.8084 ppm	0.9837 ppm	22.9648 ppm	0.5175 ppm	0.5520 ppm	0.5025 ppm
Concentration RSD	0.7 %	2.4 %	2.9 %	2.5 %	0.3 %	0.2 %	1.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1265 ppm	9.1163 ppm	1.0387 ppm	1.0969 ppm	1.0915 ppm	0.1253 ppm	0.5292 ppm
Concentration per Run 1	0.1271 ppm	9.1400 ppm	1.0397 ppm	1.1026 ppm	1.0967 ppm	0.1242 ppm	0.5310 ppm
Concentration per Run 2	0.1260 ppm	9.0955 ppm	1.0360 ppm	1.0895 ppm	1.0925 ppm	0.1255 ppm	0.5300 ppm
Concentration per Run 3	0.1263 ppm	9.1133 ppm	1.0404 ppm	1.0985 ppm	1.0853 ppm	0.1262 ppm	0.5266 ppm
Concentration RSD	0.5 %	0.2 %	0.2 %	0.6 %	0.5 %	0.8 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5306 ppm	101.7175 %	93.5093 %	94.7606 %	97.2240 %	96.5036 %	96.2537 %
Concentration per Run 1	0.5319 ppm	101.0644 %	93.5304 %	94.8502 %	94.6050 %	96.1495 %	95.7861 %
Concentration per Run 2	0.5301 ppm	102.5703 %	93.1144 %	94.6203 %	97.5389 %	96.6433 %	95.7254 %
Concentration per Run 3	0.5297 ppm	101.5178 %	93.8830 %	94.8113 %	99.5281 %	96.7179 %	97.2494 %
Concentration RSD	0.2 %	0.8 %	0.4 %	0.1 %	2.5 %	0.3 %	0.9 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1974375-6D5 WG1974375
Analysis started at: 9/24/2024 8:57:17 PM
Comments <Comment>
Rack: 1
Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0112 ppm	0.0009 ppm	0.0224 ppm	0.0312 ppm	0.0000 ppm	6.4523 ppm
Concentration per Run 1	0.0007 ppm	0.0139 ppm	0.0014 ppm	0.0227 ppm	0.0329 ppm	0.0000 ppm	6.5496 ppm
Concentration per Run 2	-0.0004 ppm	0.0015 ppm	0.0009 ppm	0.0221 ppm	0.0311 ppm	0.0000 ppm	6.4863 ppm
Concentration per Run 3	0.0005 ppm	0.0181 ppm	0.0004 ppm	0.0225 ppm	0.0295 ppm	0.0001 ppm	6.3211 ppm
Concentration RSD	208.6 %	77.5 %	54.2 %	1.3 %	5.3 %	345.1 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0007 ppm	0.4888 ppm	5.3997 ppm	-0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	-0.0003 ppm	0.0007 ppm	0.4923 ppm	5.4376 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0008 ppm	0.4907 ppm	5.4667 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.4833 ppm	5.2949 ppm	-0.0001 ppm
Concentration RSD	981.0 %	54.7 %	363.2 %	32.5 %	1.0 %	1.7 %	86.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.4322 ppm	0.0637 ppm	0.0090 ppm	2.7099 ppm	0.0002 ppm	0.0000 ppm	0.0075 ppm
Concentration per Run 1	2.4428 ppm	0.0662 ppm	0.0101 ppm	2.8049 ppm	0.0002 ppm	-0.0007 ppm	0.0068 ppm
Concentration per Run 2	2.4343 ppm	0.0635 ppm	0.0088 ppm	2.7054 ppm	0.0004 ppm	-0.0002 ppm	0.0086 ppm
Concentration per Run 3	2.4195 ppm	0.0614 ppm	0.0080 ppm	2.6194 ppm	0.0000 ppm	0.0009 ppm	0.0069 ppm
Concentration RSD	0.5 %	3.8 %	12.1 %	3.4 %	121.9 %	1,897.5 %	13.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0006 ppm	1.6178 ppm	0.0030 ppm	0.0437 ppm	0.0014 ppm	0.0010 ppm	0.0006 ppm
Concentration per Run 1	0.0015 ppm	1.6255 ppm	0.0034 ppm	0.0444 ppm	0.0012 ppm	0.0014 ppm	0.0008 ppm
Concentration per Run 2	0.0017 ppm	1.6169 ppm	0.0026 ppm	0.0438 ppm	0.0014 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	-0.0016 ppm	1.6110 ppm	0.0028 ppm	0.0427 ppm	0.0016 ppm	0.0015 ppm	0.0008 ppm
Concentration RSD	327.0 %	0.4 %	14.1 %	2.0 %	12.6 %	68.8 %	54.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0006 ppm	98.7855 %	94.7656 %	96.2248 %	94.5189 %	98.7309 %	96.4463 %
Concentration per Run 1	0.0006 ppm	98.1074 %	94.3996 %	96.0454 %	91.8293 %	98.1920 %	95.7552 %
Concentration per Run 2	0.0005 ppm	97.8337 %	94.7648 %	96.3233 %	93.9959 %	98.9637 %	96.5414 %
Concentration per Run 3	0.0007 ppm	100.4153 %	95.1324 %	96.3057 %	97.7314 %	99.0372 %	97.0423 %
Concentration RSD	16.3 %	1.4 %	0.4 %	0.2 %	3.2 %	0.5 %	0.7 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 9:03:30 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5084 ppm	0.4938 ppm	0.4776 ppm	0.4841 ppm	0.4856 ppm	0.4927 ppm	0.4612 ppm
Concentration per Run 1	0.5079 ppm	0.4969 ppm	0.4773 ppm	0.4854 ppm	0.4934 ppm	0.5004 ppm	0.4707 ppm
Concentration per Run 2	0.5098 ppm	0.4971 ppm	0.4766 ppm	0.4844 ppm	0.4834 ppm	0.4901 ppm	0.4524 ppm
Concentration per Run 3	0.5074 ppm	0.4875 ppm	0.4789 ppm	0.4825 ppm	0.4799 ppm	0.4875 ppm	0.4605 ppm
Recovery Percentage 1	101.673 %	98.765 %	95.524 %	96.815 %	97.115 %	98.532 %	92.244 %
Concentration RSD	0.2 %	1.1 %	0.2 %	0.3 %	1.4 %	1.4 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4902 ppm	0.4980 ppm	0.4994 ppm	0.4848 ppm	0.4629 ppm	4.8287 ppm	0.4880 ppm
Concentration per Run 1	0.4911 ppm	0.4988 ppm	0.4994 ppm	0.4859 ppm	0.4702 ppm	4.8791 ppm	0.4971 ppm
Concentration per Run 2	0.4905 ppm	0.4983 ppm	0.5000 ppm	0.4843 ppm	0.4588 ppm	4.8082 ppm	0.4853 ppm
Concentration per Run 3	0.4890 ppm	0.4970 ppm	0.4987 ppm	0.4842 ppm	0.4595 ppm	4.7986 ppm	0.4815 ppm
Recovery Percentage 1	98.043 %	99.601 %	99.876 %	96.957 %	92.572 %	96.573 %	97.593 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.2 %	1.4 %	0.9 %	1.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4989 ppm	0.4923 ppm	0.4839 ppm	10.0117 ppm	0.4933 ppm	0.4921 ppm	0.4948 ppm
Concentration per Run 1	0.5006 ppm	0.4992 ppm	0.4802 ppm	10.1726 ppm	0.4945 ppm	0.4930 ppm	0.4973 ppm
Concentration per Run 2	0.5019 ppm	0.4905 ppm	0.4847 ppm	9.9641 ppm	0.4941 ppm	0.4926 ppm	0.4946 ppm
Concentration per Run 3	0.4942 ppm	0.4873 ppm	0.4867 ppm	9.8983 ppm	0.4914 ppm	0.4907 ppm	0.4925 ppm
Recovery Percentage 1	99.780 %	98.468 %	96.771 %	100.117 %	98.665 %	98.421 %	98.956 %
Concentration RSD	0.8 %	1.3 %	0.7 %	1.4 %	0.3 %	0.2 %	0.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4862 ppm	5.3266 ppm	0.4578 ppm	0.4343 ppm	0.4931 ppm	0.4971 ppm	0.4838 ppm
Concentration per Run 1	0.4858 ppm	5.3401 ppm	0.4580 ppm	0.4407 ppm	0.4938 ppm	0.4980 ppm	0.4840 ppm
Concentration per Run 2	0.4857 ppm	5.3313 ppm	0.4587 ppm	0.4302 ppm	0.4932 ppm	0.4959 ppm	0.4836 ppm
Concentration per Run 3	0.4872 ppm	5.3084 ppm	0.4566 ppm	0.4319 ppm	0.4924 ppm	0.4975 ppm	0.4838 ppm
Recovery Percentage 1	97.245 %	101.459 %	91.557 %	86.856 %	98.628 %	99.428 %	96.759 %
Concentration RSD	0.2 %	0.3 %	0.2 %	1.3 %	0.1 %	0.2 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4953 ppm	98.0250 %	95.5105 %	96.5585 %	101.1156 %	100.3926 %	99.1092 %
Concentration per Run 1	0.4965 ppm	96.1132 %	95.6355 %	96.7808 %	99.1776 %	100.3634 %	99.1544 %
Concentration per Run 2	0.4957 ppm	99.4004 %	95.4765 %	96.5282 %	102.0031 %	100.2189 %	99.0230 %
Concentration per Run 3	0.4939 ppm	98.5615 %	95.4193 %	96.3666 %	102.1660 %	100.5955 %	99.1503 %
Recovery Percentage 1	99.068 %						
Concentration RSD	0.3 %	1.7 %	0.1 %	0.2 %	1.7 %	0.2 %	0.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 9:09:34 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0040 ppm	-0.0011 ppm	0.0017 ppm	0.0004 ppm	0.0002 ppm	0.0038 ppm
Concentration per Run 1	0.0003 ppm	-0.0090 ppm	-0.0011 ppm	0.0017 ppm	0.0005 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 2	-0.0002 ppm	-0.0069 ppm	-0.0001 ppm	0.0011 ppm	0.0004 ppm	0.0002 ppm	0.0054 ppm
Concentration per Run 3	0.0001 ppm	0.0039 ppm	-0.0021 ppm	0.0023 ppm	0.0003 ppm	0.0002 ppm	0.0061 ppm
Recovery Percentage 1	0.596 %	-4.007 %	-22.277 %	5.689 %	3.926 %	4.665 %	3.828 %
Concentration RSD	634.4 %	172.6 %	90.8 %	35.1 %	20.0 %	26.6 %	88.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0061 ppm	-0.0019 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	-0.0005 ppm	0.0156 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0008 ppm	0.0006 ppm	0.0164 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	-0.0001 ppm	-0.0139 ppm	-0.0029 ppm
Recovery Percentage 1	0.488 %	0.182 %	-3.891 %	-2.752 %	0.029 %	0.242 %	-18.951 %
Concentration RSD	234.6 %	397.8 %	24.9 %	162.3 %	3,857.0 %	285.2 %	46.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0006 ppm	0.0002 ppm	0.0033 ppm	-0.0096 ppm	-0.0002 ppm	-0.0001 ppm	0.0016 ppm
Concentration per Run 1	-0.0024 ppm	0.0002 ppm	0.0038 ppm	0.0029 ppm	-0.0001 ppm	-0.0006 ppm	0.0011 ppm
Concentration per Run 2	0.0042 ppm	0.0004 ppm	0.0032 ppm	-0.0215 ppm	0.0002 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0029 ppm	-0.0103 ppm	-0.0005 ppm	0.0002 ppm	0.0013 ppm
Recovery Percentage 1	0.615 %	2.318 %	6.552 %	-0.480 %	-0.690 %	-1.370 %	3.214 %
Concentration RSD	540.0 %	67.4 %	14.1 %	127.3 %	204.4 %	289.1 %	45.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0012 ppm	0.0028 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 1	0.0006 ppm	0.0028 ppm	0.0006 ppm	0.0002 ppm	0.0002 ppm	0.0018 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0027 ppm	0.0005 ppm	0.0002 ppm	0.0001 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 3	0.0030 ppm	0.0029 ppm	0.0009 ppm	0.0003 ppm	-0.0004 ppm	0.0008 ppm	0.0010 ppm
Recovery Percentage 1	11.991 %	0.558 %	1.341 %	2.263 %	-0.407 %	2.497 %	6.367 %
Concentration RSD	133.4 %	4.7 %	25.9 %	33.4 %	832.6 %	284.4 %	59.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	98.9268 %	96.1455 %	97.0697 %	97.6813 %	98.6564 %	97.4072 %
Concentration per Run 1	0.0000 ppm	98.7873 %	96.3709 %	96.7694 %	96.8099 %	98.2152 %	97.6123 %
Concentration per Run 2	0.0000 ppm	99.4328 %	95.8667 %	97.3699 %	97.8283 %	98.9530 %	97.2409 %
Concentration per Run 3	0.0001 ppm	98.5602 %	96.1989 %	97.0698 %	98.4057 %	98.8009 %	97.3685 %
Recovery Percentage 1	0.645 %						
Concentration RSD	255.8 %	0.5 %	0.3 %	0.3 %	0.8 %	0.4 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453399-05 WG1974375
Analysis started at: 9/24/2024 9:26:13 PM
Comments <Comment>
Rack: 2
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0014 ppm	0.0111 ppm	0.0569 ppm	0.0180 ppm	0.1320 ppm	0.0000 ppm	13.2002 ppm
Concentration per Run 1	0.0008 ppm	0.0116 ppm	0.0578 ppm	0.0180 ppm	0.1332 ppm	0.0000 ppm	13.1770 ppm
Concentration per Run 2	0.0017 ppm	0.0067 ppm	0.0556 ppm	0.0181 ppm	0.1312 ppm	0.0000 ppm	13.1274 ppm
Concentration per Run 3	0.0016 ppm	0.0149 ppm	0.0572 ppm	0.0179 ppm	0.1317 ppm	0.0000 ppm	13.2963 ppm
Concentration RSD	33.7 %	36.9 %	2.0 %	0.5 %	0.8 %	137.8 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0008 ppm	0.0065 ppm	-0.0009 ppm	-0.0070 ppm	104.8882 ppm	2.0409 ppm	-0.0044 ppm
Concentration per Run 1	0.0008 ppm	0.0065 ppm	-0.0013 ppm	-0.0068 ppm	104.1574 ppm	2.0295 ppm	-0.0040 ppm
Concentration per Run 2	0.0007 ppm	0.0063 ppm	-0.0005 ppm	-0.0071 ppm	104.6718 ppm	2.0062 ppm	-0.0047 ppm
Concentration per Run 3	0.0008 ppm	0.0065 ppm	-0.0007 ppm	-0.0071 ppm	105.8353 ppm	2.0868 ppm	-0.0045 ppm
Concentration RSD	3.1 %	1.7 %	47.1 %	2.7 %	0.8 %	2.0 %	8.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.2595 ppm	0.4676 ppm	-0.0009 ppm	4.0896 ppm	-0.0043 ppm	0.0004 ppm	0.0030 ppm
Concentration per Run 1	2.2567 ppm	0.4699 ppm	-0.0007 ppm	4.1204 ppm	-0.0043 ppm	0.0001 ppm	0.0044 ppm
Concentration per Run 2	2.2514 ppm	0.4655 ppm	-0.0009 ppm	4.0598 ppm	-0.0042 ppm	-0.0001 ppm	0.0013 ppm
Concentration per Run 3	2.2706 ppm	0.4675 ppm	-0.0010 ppm	4.0886 ppm	-0.0043 ppm	0.0011 ppm	0.0034 ppm
Concentration RSD	0.4 %	0.5 %	20.9 %	0.7 %	2.1 %	175.8 %	52.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	6.6233 ppm	-0.0006 ppm	0.0480 ppm	0.0002 ppm	0.0034 ppm	0.0011 ppm
Concentration per Run 1	0.0003 ppm	6.6309 ppm	-0.0005 ppm	0.0479 ppm	0.0000 ppm	0.0037 ppm	0.0013 ppm
Concentration per Run 2	-0.0003 ppm	6.6323 ppm	-0.0004 ppm	0.0480 ppm	-0.0001 ppm	0.0029 ppm	0.0008 ppm
Concentration per Run 3	0.0010 ppm	6.6068 ppm	-0.0007 ppm	0.0482 ppm	0.0006 ppm	0.0036 ppm	0.0013 ppm
Concentration RSD	213.9 %	0.2 %	26.7 %	0.4 %	206.4 %	12.0 %	23.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0014 ppm	101.6185 %	97.8393 %	98.7673 %	104.8404 %	101.6112 %	101.6949 %
Concentration per Run 1	0.0015 ppm	102.2023 %	97.6788 %	99.0233 %	104.3866 %	101.6432 %	101.7175 %
Concentration per Run 2	0.0014 ppm	102.3184 %	98.7268 %	98.7281 %	105.6711 %	101.4655 %	102.4523 %
Concentration per Run 3	0.0013 ppm	100.3348 %	97.1123 %	98.5504 %	104.4637 %	101.7250 %	100.9148 %
Concentration RSD	5.3 %	1.1 %	0.8 %	0.2 %	0.7 %	0.1 %	0.8 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453400-01 WG1974375
Analysis started at: 9/24/2024 9:32:30 PM
Comments <Comment>
Rack: 2
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0122 ppm	-0.0009 ppm	0.0360 ppm	0.2586 ppm	0.0000 ppm	47.9404 ppm
Concentration per Run 1	-0.0001 ppm	0.0039 ppm	-0.0030 ppm	0.0364 ppm	0.2726 ppm	0.0000 ppm	49.1211 ppm
Concentration per Run 2	-0.0002 ppm	0.0163 ppm	0.0003 ppm	0.0363 ppm	0.2553 ppm	0.0000 ppm	47.2305 ppm
Concentration per Run 3	-0.0007 ppm	0.0163 ppm	-0.0001 ppm	0.0353 ppm	0.2479 ppm	0.0001 ppm	47.4695 ppm
Concentration RSD	93.0 %	58.6 %	198.8 %	1.6 %	4.9 %	169.7 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0017 ppm	-0.0003 ppm	0.0010 ppm	0.3972 ppm	2.9092 ppm	-0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0017 ppm	0.0000 ppm	0.0010 ppm	0.4354 ppm	2.9985 ppm	-0.0023 ppm
Concentration per Run 2	0.0001 ppm	0.0016 ppm	-0.0007 ppm	0.0011 ppm	0.3943 ppm	2.8808 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	0.0018 ppm	-0.0003 ppm	0.0009 ppm	0.3618 ppm	2.8484 ppm	-0.0014 ppm
Concentration RSD	24.8 %	4.9 %	102.1 %	6.8 %	9.3 %	2.7 %	186.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	33.1784 ppm	0.5627 ppm	0.0005 ppm	100.8547 ppm	0.0024 ppm	-0.0011 ppm	0.0012 ppm
Concentration per Run 1	33.2727 ppm	0.5933 ppm	0.0006 ppm	106.2616 ppm	0.0025 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 2	33.1107 ppm	0.5547 ppm	0.0006 ppm	99.6432 ppm	0.0023 ppm	-0.0013 ppm	0.0023 ppm
Concentration per Run 3	33.1518 ppm	0.5402 ppm	0.0004 ppm	96.6594 ppm	0.0023 ppm	-0.0017 ppm	0.0010 ppm
Concentration RSD	0.3 %	4.9 %	16.3 %	4.9 %	4.1 %	68.8 %	81.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0015 ppm	10.5528 ppm	-0.0006 ppm	0.4006 ppm	0.0008 ppm	0.0009 ppm	0.0008 ppm
Concentration per Run 1	0.0016 ppm	10.6255 ppm	-0.0003 ppm	0.4113 ppm	0.0011 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 2	0.0017 ppm	10.5447 ppm	-0.0006 ppm	0.3946 ppm	0.0008 ppm	0.0008 ppm	0.0009 ppm
Concentration per Run 3	0.0011 ppm	10.4881 ppm	-0.0008 ppm	0.3959 ppm	0.0004 ppm	0.0014 ppm	0.0010 ppm
Concentration RSD	20.8 %	0.7 %	41.7 %	2.3 %	46.3 %	51.1 %	22.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0041 ppm	99.0606 %	92.1845 %	93.4601 %	90.8736 %	91.7922 %	92.1154 %
Concentration per Run 1	0.0041 ppm	97.2636 %	91.7942 %	93.6493 %	86.6816 %	91.3891 %	91.3021 %
Concentration per Run 2	0.0041 ppm	99.9545 %	92.5519 %	93.4246 %	91.4384 %	91.7756 %	92.5487 %
Concentration per Run 3	0.0039 ppm	99.9637 %	92.2075 %	93.3065 %	94.5009 %	92.2119 %	92.4955 %
Concentration RSD	3.0 %	1.6 %	0.4 %	0.2 %	4.3 %	0.4 %	0.8 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453400-02 WG1974375
Analysis started at: 9/24/2024 9:38:56 PM
Comments <Comment>
Rack: 2
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0275 ppm	0.0002 ppm	0.0346 ppm	0.2513 ppm	0.0000 ppm	47.3419 ppm
Concentration per Run 1	-0.0002 ppm	0.0212 ppm	0.0003 ppm	0.0345 ppm	0.2584 ppm	0.0000 ppm	47.7219 ppm
Concentration per Run 2	0.0000 ppm	0.0355 ppm	0.0004 ppm	0.0350 ppm	0.2500 ppm	0.0000 ppm	47.1415 ppm
Concentration per Run 3	-0.0005 ppm	0.0257 ppm	-0.0001 ppm	0.0344 ppm	0.2455 ppm	0.0000 ppm	47.1622 ppm
Concentration RSD	90.3 %	26.5 %	157.7 %	0.9 %	2.6 %	309.7 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0015 ppm	-0.0006 ppm	0.0008 ppm	0.2922 ppm	2.8850 ppm	-0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0013 ppm	-0.0003 ppm	0.0010 ppm	0.2954 ppm	2.9020 ppm	0.0032 ppm
Concentration per Run 2	0.0001 ppm	0.0017 ppm	-0.0006 ppm	0.0006 ppm	0.2897 ppm	2.8881 ppm	-0.0033 ppm
Concentration per Run 3	0.0001 ppm	0.0015 ppm	-0.0010 ppm	0.0009 ppm	0.2914 ppm	2.8648 ppm	-0.0018 ppm
Concentration RSD	17.4 %	11.5 %	50.1 %	20.6 %	1.0 %	0.7 %	565.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	31.6459 ppm	0.5446 ppm	0.0001 ppm	97.8149 ppm	0.0023 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 1	31.7895 ppm	0.5595 ppm	-0.0001 ppm	100.4881 ppm	0.0023 ppm	-0.0006 ppm	-0.0018 ppm
Concentration per Run 2	31.7164 ppm	0.5429 ppm	0.0001 ppm	97.3581 ppm	0.0018 ppm	-0.0008 ppm	0.0015 ppm
Concentration per Run 3	31.4319 ppm	0.5314 ppm	0.0002 ppm	95.5986 ppm	0.0028 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	0.6 %	2.6 %	252.6 %	2.5 %	20.2 %	84.8 %	2,383.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	10.1070 ppm	-0.0007 ppm	0.3941 ppm	0.0004 ppm	0.0011 ppm	0.0011 ppm
Concentration per Run 1	0.0027 ppm	10.0044 ppm	-0.0003 ppm	0.3976 ppm	0.0006 ppm	0.0022 ppm	0.0011 ppm
Concentration per Run 2	-0.0013 ppm	10.1937 ppm	-0.0009 ppm	0.3920 ppm	0.0005 ppm	-0.0005 ppm	0.0011 ppm
Concentration per Run 3	0.0012 ppm	10.1228 ppm	-0.0007 ppm	0.3927 ppm	0.0002 ppm	0.0016 ppm	0.0010 ppm
Concentration RSD	229.0 %	0.9 %	45.2 %	0.8 %	57.8 %	125.9 %	6.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0032 ppm	97.7992 %	94.4578 %	95.7697 %	91.2029 %	94.3628 %	94.5903 %
Concentration per Run 1	0.0032 ppm	97.5153 %	94.3742 %	97.0954 %	89.1949 %	95.1496 %	94.2111 %
Concentration per Run 2	0.0033 ppm	98.0215 %	94.4661 %	94.9974 %	91.4161 %	93.5984 %	94.5312 %
Concentration per Run 3	0.0032 ppm	97.8607 %	94.5332 %	95.2164 %	92.9977 %	94.3402 %	95.0286 %
Concentration RSD	2.9 %	0.3 %	0.1 %	1.2 %	2.1 %	0.8 %	0.4 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: L2453400-03 WG1974375
Analysis started at: 9/24/2024 9:45:08 PM
Comments <Comment>
Rack: 2
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0008 ppm	0.0128 ppm	0.0018 ppm	0.0188 ppm	0.1770 ppm	0.0000 ppm	8.3087 ppm
Concentration per Run 1	0.0011 ppm	0.0089 ppm	0.0039 ppm	0.0187 ppm	0.1831 ppm	0.0000 ppm	8.4741 ppm
Concentration per Run 2	0.0006 ppm	0.0038 ppm	0.0012 ppm	0.0191 ppm	0.1756 ppm	-0.0001 ppm	8.2374 ppm
Concentration per Run 3	0.0007 ppm	0.0255 ppm	0.0003 ppm	0.0185 ppm	0.1724 ppm	0.0000 ppm	8.2146 ppm
Concentration RSD	31.4 %	89.0 %	105.0 %	1.4 %	3.1 %	293.1 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0004 ppm	0.0105 ppm	-0.0007 ppm	-0.0024 ppm	51.5859 ppm	2.8445 ppm	0.0015 ppm
Concentration per Run 1	0.0004 ppm	0.0103 ppm	-0.0009 ppm	-0.0022 ppm	52.1276 ppm	2.8663 ppm	-0.0007 ppm
Concentration per Run 2	0.0004 ppm	0.0104 ppm	-0.0004 ppm	-0.0027 ppm	51.2320 ppm	2.8221 ppm	0.0019 ppm
Concentration per Run 3	0.0004 ppm	0.0107 ppm	-0.0007 ppm	-0.0025 ppm	51.3981 ppm	2.8453 ppm	0.0034 ppm
Concentration RSD	5.4 %	1.6 %	36.1 %	10.5 %	0.9 %	0.8 %	133.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.3956 ppm	1.3448 ppm	-0.0006 ppm	158.1255 ppm	-0.0026 ppm	0.0005 ppm	0.0011 ppm
Concentration per Run 1	1.3991 ppm	1.3868 ppm	-0.0004 ppm	163.2443 ppm	-0.0023 ppm	-0.0005 ppm	0.0015 ppm
Concentration per Run 2	1.3951 ppm	1.3355 ppm	-0.0008 ppm	157.2265 ppm	-0.0026 ppm	0.0005 ppm	0.0013 ppm
Concentration per Run 3	1.3925 ppm	1.3119 ppm	-0.0005 ppm	153.9055 ppm	-0.0027 ppm	0.0014 ppm	0.0003 ppm
Concentration RSD	0.2 %	2.8 %	35.3 %	3.0 %	8.0 %	205.4 %	63.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	10.0422 ppm	-0.0004 ppm	0.0467 ppm	0.0003 ppm	0.0025 ppm	0.0021 ppm
Concentration per Run 1	-0.0013 ppm	10.0449 ppm	-0.0009 ppm	0.0474 ppm	0.0002 ppm	0.0030 ppm	0.0020 ppm
Concentration per Run 2	0.0006 ppm	10.0749 ppm	0.0002 ppm	0.0465 ppm	0.0002 ppm	0.0026 ppm	0.0020 ppm
Concentration per Run 3	0.0007 ppm	10.0068 ppm	-0.0007 ppm	0.0462 ppm	0.0004 ppm	0.0017 ppm	0.0024 ppm
Concentration RSD	24,748.0 %	0.3 %	133.9 %	1.3 %	60.6 %	26.1 %	10.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0024 ppm	95.6669 %	92.7712 %	94.8286 %	96.4277 %	95.7757 %	96.2404 %
Concentration per Run 1	0.0025 ppm	94.4148 %	92.8491 %	95.1226 %	93.7243 %	95.7451 %	96.1536 %
Concentration per Run 2	0.0024 ppm	95.9224 %	92.7329 %	94.4275 %	96.5137 %	95.2952 %	96.2764 %
Concentration per Run 3	0.0024 ppm	96.6634 %	92.7315 %	94.9356 %	99.0451 %	96.2869 %	96.2911 %
Concentration RSD	2.0 %	1.2 %	0.1 %	0.4 %	2.8 %	0.5 %	0.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453400-04 WG1974375
Analysis started at: 9/24/2024 9:51:20 PM
Comments <Comment>
Rack: 2
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0022 ppm	-0.0012 ppm	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.0204 ppm
Concentration per Run 1	0.0000 ppm	-0.0036 ppm	-0.0010 ppm	0.0009 ppm	0.0005 ppm	0.0000 ppm	0.0278 ppm
Concentration per Run 2	-0.0004 ppm	0.0058 ppm	0.0001 ppm	0.0010 ppm	0.0006 ppm	0.0000 ppm	0.0146 ppm
Concentration per Run 3	-0.0002 ppm	0.0045 ppm	-0.0028 ppm	0.0009 ppm	0.0002 ppm	0.0000 ppm	0.0188 ppm
Concentration RSD	95.3 %	226.7 %	115.1 %	6.5 %	44.3 %	445.8 %	33.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0005 ppm	0.0390 ppm	-0.0090 ppm	-0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0004 ppm	0.0571 ppm	0.0181 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	0.0007 ppm	0.0368 ppm	-0.0104 ppm	-0.0054 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0232 ppm	-0.0347 ppm	0.0013 ppm
Concentration RSD	355.5 %	217.5 %	54.0 %	26.2 %	43.7 %	294.3 %	508.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0047 ppm	0.0007 ppm	0.0000 ppm	0.1485 ppm	-0.0004 ppm	0.0009 ppm	-0.0003 ppm
Concentration per Run 1	0.0056 ppm	0.0009 ppm	0.0002 ppm	0.2328 ppm	-0.0007 ppm	0.0013 ppm	-0.0008 ppm
Concentration per Run 2	0.0039 ppm	0.0009 ppm	0.0000 ppm	0.1321 ppm	-0.0004 ppm	0.0007 ppm	-0.0009 ppm
Concentration per Run 3	0.0046 ppm	0.0004 ppm	-0.0001 ppm	0.0806 ppm	-0.0002 ppm	0.0006 ppm	0.0008 ppm
Concentration RSD	17.4 %	36.9 %	385.6 %	52.1 %	61.9 %	44.5 %	330.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0081 ppm	-0.0007 ppm	0.0004 ppm	-0.0003 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 1	-0.0002 ppm	0.0086 ppm	-0.0011 ppm	0.0004 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0013 ppm	0.0080 ppm	-0.0004 ppm	0.0004 ppm	-0.0005 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 3	-0.0010 ppm	0.0076 ppm	-0.0006 ppm	0.0003 ppm	-0.0002 ppm	0.0014 ppm	0.0003 ppm
Concentration RSD	5,422.7 %	6.5 %	51.5 %	21.8 %	78.1 %	102.2 %	16,967.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	99.4128 %	96.1783 %	98.6819 %	91.4875 %	99.5105 %	95.0633 %
Concentration per Run 1	0.0004 ppm	98.1298 %	96.2797 %	98.4631 %	88.5932 %	98.6824 %	94.9671 %
Concentration per Run 2	0.0004 ppm	98.9381 %	95.6328 %	99.5482 %	90.7144 %	100.4406 %	94.5036 %
Concentration per Run 3	0.0004 ppm	101.1704 %	96.6224 %	98.0343 %	95.1548 %	99.4084 %	95.7191 %
Concentration RSD	5.1 %	1.6 %	0.5 %	0.8 %	3.7 %	0.9 %	0.6 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 9:57:38 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5208 ppm	0.5369 ppm	0.4894 ppm	0.4924 ppm	0.5310 ppm	0.5411 ppm	0.5040 ppm
Concentration per Run 1	0.5226 ppm	0.5270 ppm	0.4902 ppm	0.4929 ppm	0.5339 ppm	0.5430 ppm	0.5067 ppm
Concentration per Run 2	0.5207 ppm	0.5473 ppm	0.4898 ppm	0.4930 ppm	0.5435 ppm	0.5536 ppm	0.5152 ppm
Concentration per Run 3	0.5192 ppm	0.5365 ppm	0.4881 ppm	0.4912 ppm	0.5157 ppm	0.5266 ppm	0.4902 ppm
Recovery Percentage 1	104.166 %	107.380 %	97.871 %	98.477 %	106.209 %	108.219 %	100.802 %
Concentration RSD	0.3 %	1.9 %	0.2 %	0.2 %	2.7 %	2.5 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5000 ppm	0.5080 ppm	0.5124 ppm	0.4953 ppm	0.5084 ppm	5.2623 ppm	0.5381 ppm
Concentration per Run 1	0.5012 ppm	0.5088 ppm	0.5134 ppm	0.4965 ppm	0.5131 ppm	5.3315 ppm	0.5398 ppm
Concentration per Run 2	0.5001 ppm	0.5082 ppm	0.5122 ppm	0.4947 ppm	0.5205 ppm	5.4339 ppm	0.5511 ppm
Concentration per Run 3	0.4988 ppm	0.5071 ppm	0.5116 ppm	0.4947 ppm	0.4918 ppm	5.0214 ppm	0.5233 ppm
Recovery Percentage 1	100.005 %	101.606 %	102.483 %	99.065 %	101.687 %	105.245 %	107.612 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %	2.9 %	4.1 %	2.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5115 ppm	0.5387 ppm	0.4910 ppm	10.9300 ppm	0.5043 ppm	0.5039 ppm	0.5010 ppm
Concentration per Run 1	0.5121 ppm	0.5404 ppm	0.4870 ppm	10.9705 ppm	0.5059 ppm	0.5053 ppm	0.5002 ppm
Concentration per Run 2	0.5112 ppm	0.5517 ppm	0.4920 ppm	11.1741 ppm	0.5044 ppm	0.5040 ppm	0.5019 ppm
Concentration per Run 3	0.5110 ppm	0.5242 ppm	0.4939 ppm	10.6455 ppm	0.5028 ppm	0.5025 ppm	0.5010 ppm
Recovery Percentage 1	102.290 %	107.748 %	98.196 %	109.300 %	100.866 %	100.784 %	100.202 %
Concentration RSD	0.1 %	2.6 %	0.7 %	2.4 %	0.3 %	0.3 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4981 ppm	5.4538 ppm	0.4668 ppm	0.4750 ppm	0.5059 ppm	0.5061 ppm	0.4943 ppm
Concentration per Run 1	0.5004 ppm	5.4655 ppm	0.4680 ppm	0.4791 ppm	0.5065 ppm	0.5081 ppm	0.4955 ppm
Concentration per Run 2	0.4971 ppm	5.4597 ppm	0.4672 ppm	0.4858 ppm	0.5054 ppm	0.5062 ppm	0.4934 ppm
Concentration per Run 3	0.4968 ppm	5.4361 ppm	0.4653 ppm	0.4602 ppm	0.5057 ppm	0.5041 ppm	0.4941 ppm
Recovery Percentage 1	99.621 %	103.882 %	93.367 %	95.003 %	101.173 %	101.227 %	98.865 %
Concentration RSD	0.4 %	0.3 %	0.3 %	2.8 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5064 ppm	90.9009 %	94.2941 %	95.4820 %	93.4851 %	98.9875 %	97.2900 %
Concentration per Run 1	0.5073 ppm	89.7427 %	94.4851 %	95.2177 %	92.7588 %	98.6496 %	97.1935 %
Concentration per Run 2	0.5065 ppm	89.3100 %	94.0985 %	95.6313 %	91.8089 %	99.0516 %	97.2476 %
Concentration per Run 3	0.5054 ppm	93.6501 %	94.2988 %	95.5969 %	95.8877 %	99.2612 %	97.4290 %
Recovery Percentage 1	101.277 %						
Concentration RSD	0.2 %	2.6 %	0.2 %	0.2 %	2.3 %	0.3 %	0.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 10:03:42 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0009 ppm	-0.0004 ppm	0.0010 ppm	0.0002 ppm	0.0001 ppm	0.0058 ppm
Concentration per Run 1	0.0000 ppm	-0.0065 ppm	0.0001 ppm	0.0012 ppm	0.0004 ppm	0.0002 ppm	0.0052 ppm
Concentration per Run 2	0.0000 ppm	0.0108 ppm	-0.0009 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0055 ppm
Concentration per Run 3	0.0006 ppm	-0.0016 ppm	-0.0005 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	0.0067 ppm
Recovery Percentage 1	2.794 %	0.901 %	-8.862 %	3.490 %	2.415 %	2.956 %	5.815 %
Concentration RSD	187.2 %	991.2 %	114.0 %	23.9 %	65.1 %	61.0 %	13.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0005 ppm	-0.0003 ppm	0.0010 ppm	-0.0385 ppm	-0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0001 ppm	-0.0005 ppm	0.0009 ppm	0.0124 ppm	-0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0006 ppm	-0.0006 ppm	0.0008 ppm	-0.0557 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	-0.0007 ppm	0.0001 ppm	0.0014 ppm	-0.0723 ppm	-0.0015 ppm
Recovery Percentage 1	0.064 %	-0.053 %	-4.801 %	-3.219 %	2.057 %	-1.541 %	-12.634 %
Concentration RSD	479.9 %	2,491.4 %	65.1 %	102.5 %	28.1 %	116.5 %	48.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0010 ppm	0.0003 ppm	0.0020 ppm	-0.0058 ppm	-0.0002 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0025 ppm	-0.0095 ppm	0.0000 ppm	-0.0005 ppm	0.0017 ppm
Concentration per Run 2	-0.0029 ppm	0.0007 ppm	0.0020 ppm	-0.0132 ppm	-0.0003 ppm	0.0002 ppm	0.0024 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0015 ppm	0.0052 ppm	-0.0003 ppm	0.0001 ppm	-0.0008 ppm
Recovery Percentage 1	-1.049 %	3.496 %	4.041 %	-0.292 %	-0.810 %	-0.853 %	2.216 %
Concentration RSD	152.0 %	98.3 %	24.2 %	167.1 %	70.1 %	458.5 %	151.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0013 ppm	0.0016 ppm	-0.0003 ppm	0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0002 ppm	0.0014 ppm	-0.0003 ppm	0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 2	0.0014 ppm	0.0021 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0022 ppm	0.0013 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0009 ppm	0.0004 ppm
Recovery Percentage 1	12.661 %	0.322 %	-0.506 %	1.663 %	-0.875 %	1.827 %	4.640 %
Concentration RSD	76.4 %	25.1 %	143.2 %	101.7 %	206.4 %	142.7 %	12.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.7926 %	98.0390 %	98.5996 %	97.9143 %	100.4479 %	99.1204 %
Concentration per Run 1	0.0000 ppm	98.8497 %	98.1874 %	99.0181 %	95.0111 %	100.9906 %	99.2712 %
Concentration per Run 2	0.0000 ppm	100.8790 %	98.4940 %	98.3901 %	97.9971 %	100.2562 %	99.4292 %
Concentration per Run 3	0.0001 ppm	102.6491 %	97.4357 %	98.3908 %	100.7349 %	100.0969 %	98.6609 %
Recovery Percentage 1	0.123 %						
Concentration RSD	679.3 %	1.9 %	0.6 %	0.4 %	2.9 %	0.5 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975260-1 WG1975260
Analysis started at: 9/24/2024 10:10:01 PM
Comments <Comment>
Rack: 2
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	-0.0011 ppm	-0.0007 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0054 ppm
Concentration per Run 1	-0.0003 ppm	0.0026 ppm	-0.0004 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 2	-0.0003 ppm	-0.0139 ppm	-0.0007 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0043 ppm
Concentration per Run 3	-0.0005 ppm	0.0081 ppm	-0.0011 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	0.0093 ppm
Recovery Percentage 1	-5.235 %	-1.080 %	-14.700 %	2.942 %	0.147 %	1.488 %	5.428 %
Concentration RSD	39.1 %	1,058.5 %	48.9 %	38.8 %	344.7 %	88.0 %	63.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0011 ppm	0.0002 ppm	0.0000 ppm	-0.0558 ppm	-0.0025 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0015 ppm	0.0001 ppm	0.0015 ppm	-0.0698 ppm	-0.0038 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0011 ppm	-0.0001 ppm	-0.0009 ppm	-0.0367 ppm	-0.0029 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0006 ppm	-0.0007 ppm	-0.0609 ppm	-0.0009 ppm
Recovery Percentage 1	-0.561 %	-0.119 %	-11.454 %	2.068 %	-0.058 %	-2.231 %	-25.279 %
Concentration RSD	70.4 %	188.6 %	26.2 %	188.4 %	4,563.0 %	30.7 %	58.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0022 ppm	0.0003 ppm	0.0007 ppm	-0.0085 ppm	-0.0008 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.0031 ppm	0.0002 ppm	0.0004 ppm	0.0073 ppm	-0.0010 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 2	0.0017 ppm	0.0004 ppm	0.0007 ppm	-0.0042 ppm	-0.0008 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 3	0.0018 ppm	0.0002 ppm	0.0009 ppm	-0.0286 ppm	-0.0005 ppm	0.0003 ppm	0.0008 ppm
Recovery Percentage 1	2.199 %	2.693 %	1.324 %	-0.425 %	-3.151 %	-1.292 %	0.775 %
Concentration RSD	35.5 %	53.0 %	41.6 %	215.7 %	33.0 %	303.1 %	145.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0051 ppm	-0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 1	0.0010 ppm	0.0050 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm	0.0016 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	0.0058 ppm	-0.0011 ppm	0.0001 ppm	-0.0002 ppm	0.0011 ppm	0.0004 ppm
Concentration per Run 3	-0.0011 ppm	0.0044 ppm	-0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0017 ppm	0.0003 ppm
Recovery Percentage 1	0.403 %	1.016 %	-1.493 %	0.872 %	1.043 %	7.374 %	2.504 %
Concentration RSD	2,598.4 %	14.1 %	49.2 %	22.1 %	240.6 %	23.1 %	94.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0003 ppm	105.6725 %	97.8423 %	98.8280 %	94.2817 %	99.1576 %	96.0805 %
Concentration per Run 1	0.0003 ppm	105.4686 %	97.6672 %	98.7819 %	91.3031 %	98.4569 %	95.6743 %
Concentration per Run 2	0.0002 ppm	107.3562 %	97.6082 %	99.0375 %	95.4429 %	99.5716 %	95.7960 %
Concentration per Run 3	0.0003 ppm	104.1927 %	98.2514 %	98.6645 %	96.0993 %	99.4444 %	96.7711 %
Recovery Percentage 1	5.768 %						
Concentration RSD	17.7 %	1.5 %	0.4 %	0.2 %	2.8 %	0.6 %	0.6 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: zL2453131-02 WG1975260
Analysis started at: 9/24/2024 10:16:18 PM
Comments <Comment>
Rack: 2
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0124 ppm	0.0006 ppm	0.1365 ppm	0.0097 ppm	0.0000 ppm	18.5211 ppm
Concentration per Run 1	0.0003 ppm	0.0153 ppm	-0.0002 ppm	0.1368 ppm	0.0101 ppm	0.0000 ppm	18.6182 ppm
Concentration per Run 2	0.0001 ppm	0.0090 ppm	-0.0001 ppm	0.1368 ppm	0.0096 ppm	0.0000 ppm	18.4193 ppm
Concentration per Run 3	-0.0007 ppm	0.0129 ppm	0.0021 ppm	0.1360 ppm	0.0093 ppm	0.0001 ppm	18.5258 ppm
Recovery Percentage 1	-1.591 %	12.388 %	11.428 %	455.089 %	96.631 %	0.617 %	18,521.110 %
Concentration RSD	463.1 %	25.8 %	227.1 %	0.3 %	3.7 %	164.2 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0004 ppm	0.0106 ppm	1.2268 ppm	30.4027 ppm	-0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0107 ppm	1.2278 ppm	30.6377 ppm	-0.0051 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0006 ppm	0.0106 ppm	1.2232 ppm	30.1903 ppm	-0.0026 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	0.0004 ppm	0.0107 ppm	1.2293 ppm	30.3801 ppm	-0.0019 ppm
Recovery Percentage 1	-0.139 %	3.346 %	4.146 %	106.393 %	2,453.533 %	1,216.108 %	-32.079 %
Concentration RSD	885.1 %	13.4 %	34.2 %	0.5 %	0.3 %	0.7 %	53.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.6077 ppm	0.1804 ppm	0.0010 ppm	137.8578 ppm	0.0018 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 1	3.6242 ppm	0.1866 ppm	0.0011 ppm	142.5609 ppm	0.0020 ppm	-0.0008 ppm	-0.0005 ppm
Concentration per Run 2	3.5973 ppm	0.1794 ppm	0.0010 ppm	137.0072 ppm	0.0019 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 3	3.6016 ppm	0.1751 ppm	0.0008 ppm	134.0052 ppm	0.0014 ppm	-0.0004 ppm	0.0006 ppm
Recovery Percentage 1	3,607.663 %	1,803.578 %	1.927 %	6,892.889 %	7.154 %	-7.438 %	0.088 %
Concentration RSD	0.4 %	3.2 %	19.8 %	3.1 %	16.8 %	41.2 %	1,234.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	5.2296 ppm	-0.0004 ppm	0.0800 ppm	0.0004 ppm	0.0016 ppm	0.0008 ppm
Concentration per Run 1	0.0012 ppm	5.2403 ppm	0.0005 ppm	0.0803 ppm	0.0003 ppm	0.0026 ppm	0.0008 ppm
Concentration per Run 2	-0.0004 ppm	5.2419 ppm	-0.0011 ppm	0.0796 ppm	0.0006 ppm	0.0013 ppm	0.0011 ppm
Concentration per Run 3	0.0023 ppm	5.2065 ppm	-0.0007 ppm	0.0801 ppm	0.0004 ppm	0.0009 ppm	0.0004 ppm
Recovery Percentage 1	10.494 %	1,045.916 %	-0.886 %	799.673 %	4.260 %	7.950 %	7.907 %
Concentration RSD	129.4 %	0.4 %	182.3 %	0.5 %	37.3 %	55.8 %	40.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0100 ppm	101.7097 %	92.7523 %	94.5344 %	93.2879 %	94.1010 %	93.8020 %
Concentration per Run 1	0.0099 ppm	101.4470 %	92.4528 %	94.8862 %	90.4263 %	93.9557 %	93.2416 %
Concentration per Run 2	0.0099 ppm	101.9736 %	93.2219 %	94.3780 %	93.5725 %	94.0674 %	94.2025 %
Concentration per Run 3	0.0100 ppm	101.7085 %	92.5821 %	94.3392 %	95.8648 %	94.2799 %	93.9619 %
Recovery Percentage 1	199.043 %						
Concentration RSD	0.3 %	0.3 %	0.4 %	0.3 %	2.9 %	0.2 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975260-2 WG1975260
Analysis started at: 9/24/2024 10:22:30 PM
Comments <Comment>
Rack: 2
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0550 ppm	2.2802 ppm	0.1216 ppm	0.9866 ppm	2.2341 ppm	0.0574 ppm	9.7230 ppm
Concentration per Run 1	0.0553 ppm	2.3118 ppm	0.1232 ppm	0.9880 ppm	2.2623 ppm	0.0580 ppm	9.7097 ppm
Concentration per Run 2	0.0548 ppm	2.3233 ppm	0.1197 ppm	0.9846 ppm	2.2759 ppm	0.0585 ppm	9.9586 ppm
Concentration per Run 3	0.0548 ppm	2.2054 ppm	0.1217 ppm	0.9872 ppm	2.1641 ppm	0.0556 ppm	9.5007 ppm
Concentration RSD	0.6 %	2.9 %	1.4 %	0.2 %	2.7 %	2.6 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0557 ppm	0.5180 ppm	0.2134 ppm	0.2657 ppm	0.9998 ppm	10.1291 ppm	-0.0011 ppm
Concentration per Run 1	0.0560 ppm	0.5192 ppm	0.2148 ppm	0.2656 ppm	0.9901 ppm	10.1261 ppm	-0.0016 ppm
Concentration per Run 2	0.0554 ppm	0.5168 ppm	0.2134 ppm	0.2660 ppm	1.0249 ppm	10.3569 ppm	-0.0006 ppm
Concentration per Run 3	0.0558 ppm	0.5179 ppm	0.2121 ppm	0.2656 ppm	0.9844 ppm	9.9045 ppm	-0.0010 ppm
Concentration RSD	0.6 %	0.2 %	0.6 %	0.1 %	2.2 %	2.2 %	45.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.3935 ppm	0.5767 ppm	0.9410 ppm	11.5997 ppm	0.5171 ppm	0.5511 ppm	0.5040 ppm
Concentration per Run 1	10.4288 ppm	0.5828 ppm	0.9208 ppm	11.7555 ppm	0.5190 ppm	0.5535 ppm	0.5011 ppm
Concentration per Run 2	10.3865 ppm	0.5880 ppm	0.9399 ppm	11.7889 ppm	0.5158 ppm	0.5496 ppm	0.5026 ppm
Concentration per Run 3	10.3652 ppm	0.5593 ppm	0.9623 ppm	11.2547 ppm	0.5166 ppm	0.5500 ppm	0.5084 ppm
Concentration RSD	0.3 %	2.7 %	2.2 %	2.6 %	0.3 %	0.4 %	0.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1219 ppm	0.7394 ppm	0.9635 ppm	0.9371 ppm	1.0425 ppm	0.1241 ppm	0.5225 ppm
Concentration per Run 1	0.1203 ppm	0.7404 ppm	0.9672 ppm	0.9323 ppm	1.0460 ppm	0.1249 ppm	0.5236 ppm
Concentration per Run 2	0.1227 ppm	0.7366 ppm	0.9589 ppm	0.9594 ppm	1.0404 ppm	0.1229 ppm	0.5225 ppm
Concentration per Run 3	0.1226 ppm	0.7411 ppm	0.9643 ppm	0.9195 ppm	1.0412 ppm	0.1246 ppm	0.5213 ppm
Concentration RSD	1.1 %	0.3 %	0.4 %	2.2 %	0.3 %	0.9 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5224 ppm	96.7487 %	95.5797 %	96.5594 %	93.1030 %	99.6959 %	98.2426 %
Concentration per Run 1	0.5250 ppm	96.4369 %	95.6053 %	96.6960 %	91.4087 %	99.3552 %	98.0365 %
Concentration per Run 2	0.5206 ppm	94.9361 %	95.2872 %	96.4543 %	91.7983 %	99.9602 %	98.0591 %
Concentration per Run 3	0.5215 ppm	98.8732 %	95.8467 %	96.5280 %	96.1020 %	99.7723 %	98.6324 %
Concentration RSD	0.4 %	2.1 %	0.3 %	0.1 %	2.8 %	0.3 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: wg1975278-1 wg1975278
Analysis started at: 9/24/2024 10:28:36 PM
Comments <Comment>
Rack: 2
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0123 ppm	-0.0010 ppm	0.0022 ppm	0.0011 ppm	0.0001 ppm	0.0236 ppm
Concentration per Run 1	-0.0003 ppm	0.0188 ppm	-0.0007 ppm	0.0027 ppm	0.0015 ppm	0.0001 ppm	0.0276 ppm
Concentration per Run 2	0.0004 ppm	0.0113 ppm	-0.0018 ppm	0.0018 ppm	0.0012 ppm	0.0000 ppm	0.0235 ppm
Concentration per Run 3	-0.0003 ppm	0.0068 ppm	-0.0004 ppm	0.0021 ppm	0.0006 ppm	0.0001 ppm	0.0195 ppm
Concentration RSD	396.8 %	49.1 %	74.1 %	21.0 %	39.6 %	61.3 %	17.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0009 ppm	0.0003 ppm	0.0006 ppm	-0.0011 ppm	-0.0033 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0014 ppm	0.0005 ppm	0.0025 ppm	0.0095 ppm	-0.0025 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0004 ppm	-0.0001 ppm	-0.0439 ppm	-0.0044 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0010 ppm	0.0001 ppm	-0.0007 ppm	0.0311 ppm	-0.0031 ppm
Concentration RSD	44.8 %	74.8 %	46.5 %	64.4 %	297.5 %	3,533.9 %	30.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0039 ppm	0.0001 ppm	0.0061 ppm	0.0351 ppm	-0.0007 ppm	-0.0001 ppm	0.0030 ppm
Concentration per Run 1	0.0040 ppm	0.0007 ppm	0.0070 ppm	0.0531 ppm	-0.0007 ppm	0.0001 ppm	0.0027 ppm
Concentration per Run 2	0.0056 ppm	-0.0001 ppm	0.0062 ppm	0.0288 ppm	-0.0005 ppm	0.0002 ppm	0.0026 ppm
Concentration per Run 3	0.0022 ppm	-0.0003 ppm	0.0052 ppm	0.0234 ppm	-0.0007 ppm	-0.0005 ppm	0.0037 ppm
Concentration RSD	44.1 %	606.8 %	14.6 %	45.0 %	16.2 %	380.9 %	20.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	0.0082 ppm	0.0008 ppm	0.0005 ppm	0.0004 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 1	-0.0006 ppm	0.0089 ppm	0.0007 ppm	0.0008 ppm	0.0000 ppm	0.0022 ppm	0.0002 ppm
Concentration per Run 2	0.0014 ppm	0.0072 ppm	0.0007 ppm	0.0004 ppm	0.0007 ppm	0.0018 ppm	0.0006 ppm
Concentration per Run 3	0.0012 ppm	0.0086 ppm	0.0010 ppm	0.0004 ppm	0.0005 ppm	0.0006 ppm	0.0004 ppm
Concentration RSD	168.9 %	11.2 %	24.7 %	41.5 %	86.1 %	52.4 %	39.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0012 ppm	103.8779 %	97.8172 %	98.4318 %	92.4556 %	98.8469 %	95.9217 %
Concentration per Run 1	0.0012 ppm	102.8358 %	97.8791 %	98.6200 %	89.4113 %	98.4986 %	95.5608 %
Concentration per Run 2	0.0012 ppm	104.7952 %	97.7651 %	98.5133 %	92.7276 %	99.0818 %	95.7887 %
Concentration per Run 3	0.0011 ppm	104.0028 %	97.8073 %	98.1622 %	95.2278 %	98.9602 %	96.4155 %
Concentration RSD	8.3 %	0.9 %	0.1 %	0.2 %	3.2 %	0.3 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453130-02 WG1975260
Analysis started at: 9/24/2024 10:34:54 PM
Comments <Comment>
Rack: 2
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.1197 ppm	-0.0001 ppm	0.0928 ppm	0.0295 ppm	0.0000 ppm	64.2747 ppm
Concentration per Run 1	0.0000 ppm	0.1135 ppm	-0.0007 ppm	0.0930 ppm	0.0300 ppm	-0.0001 ppm	63.3944 ppm
Concentration per Run 2	0.0002 ppm	0.1258 ppm	-0.0018 ppm	0.0926 ppm	0.0296 ppm	-0.0001 ppm	64.5359 ppm
Concentration per Run 3	0.0000 ppm	0.1198 ppm	0.0022 ppm	0.0928 ppm	0.0290 ppm	0.0001 ppm	64.8938 ppm
Concentration RSD	124.2 %	5.1 %	1,697.8 %	0.2 %	1.6 %	377.1 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0034 ppm	0.0159 ppm	3.0676 ppm	0.0086 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0034 ppm	0.0148 ppm	3.0462 ppm	0.0112 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0004 ppm	0.0033 ppm	0.0156 ppm	3.0691 ppm	0.0062 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0008 ppm	0.0035 ppm	0.0172 ppm	3.0874 ppm	0.0083 ppm
Concentration RSD	120.1 %	142.4 %	127.1 %	2.8 %	7.5 %	0.7 %	29.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	24.1195 ppm	0.0017 ppm	0.0153 ppm	207.1469 [SIC 500]	0.0002 ppm	-0.0008 ppm	0.0035 ppm
Concentration per Run 1	24.3614 ppm	0.0015 ppm	0.0151 ppm	207.5163 ppm	0.0005 ppm	-0.0011 ppm	0.0037 ppm
Concentration per Run 2	24.1516 ppm	0.0021 ppm	0.0153 ppm	206.7118 ppm	0.0000 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 3	23.8454 ppm	0.0016 ppm	0.0154 ppm	207.2124 ppm	0.0001 ppm	-0.0011 ppm	0.0038 ppm
Concentration RSD	1.1 %	20.1 %	1.0 %	0.2 %	126.8 %	82.5 %	10.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0028 ppm	4.2329 ppm	0.0000 ppm	0.7093 ppm	0.0004 ppm	0.0019 ppm	0.0012 ppm
Concentration per Run 1	0.0045 ppm	4.2456 ppm	0.0000 ppm	0.6994 ppm	0.0007 ppm	0.0019 ppm	0.0008 ppm
Concentration per Run 2	0.0029 ppm	4.2268 ppm	0.0005 ppm	0.7121 ppm	0.0001 ppm	0.0012 ppm	0.0015 ppm
Concentration per Run 3	0.0010 ppm	4.2263 ppm	-0.0007 ppm	0.7165 ppm	0.0004 ppm	0.0025 ppm	0.0013 ppm
Concentration RSD	63.9 %	0.3 %	1,273.7 %	1.3 %	65.9 %	33.3 %	26.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0080 ppm	100.1082 %	91.0340 %	92.0910 %	94.4718 %	89.9460 %	92.3168 %
Concentration per Run 1	0.0080 ppm	101.6298 %	90.6148 %	92.5396 %	93.8065 %	89.7892 %	91.5348 %
Concentration per Run 2	0.0080 ppm	99.7750 %	90.8615 %	92.1035 %	94.0928 %	90.1032 %	92.1460 %
Concentration per Run 3	0.0081 ppm	98.9199 %	91.6257 %	91.6299 %	95.5162 %	89.9456 %	93.2697 %
Concentration RSD	0.5 %	1.4 %	0.6 %	0.5 %	1.0 %	0.2 %	1.0 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453130-01 WG1975260
Analysis started at: 9/24/2024 10:41:16 PM
Comments <Comment>
Rack: 2
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.1689 ppm	-0.0003 ppm	0.0433 ppm	0.0262 ppm	0.0000 ppm	40.0765 ppm
Concentration per Run 1	-0.0004 ppm	0.1755 ppm	0.0003 ppm	0.0430 ppm	0.0280 ppm	-0.0001 ppm	42.2960 ppm
Concentration per Run 2	-0.0001 ppm	0.1744 ppm	-0.0014 ppm	0.0438 ppm	0.0257 ppm	0.0000 ppm	38.9962 ppm
Concentration per Run 3	-0.0004 ppm	0.1569 ppm	0.0003 ppm	0.0430 ppm	0.0250 ppm	0.0000 ppm	38.9372 ppm
Concentration RSD	71.6 %	6.2 %	364.8 %	1.0 %	6.0 %	333.1 %	4.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0054 ppm	0.0114 ppm	2.0713 ppm	0.0034 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0055 ppm	0.0133 ppm	2.2035 ppm	0.0029 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0055 ppm	0.0108 ppm	1.9886 ppm	0.0034 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0052 ppm	0.0102 ppm	2.0220 ppm	0.0038 ppm
Concentration RSD	91.6 %	38.1 %	53.8 %	2.7 %	14.3 %	5.6 %	13.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	12.0381 ppm	0.0026 ppm	0.0047 ppm	80.1851 ppm	0.0002 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 1	12.0712 ppm	0.0022 ppm	0.0048 ppm	86.1140 ppm	-0.0003 ppm	-0.0003 ppm	0.0014 ppm
Concentration per Run 2	12.0219 ppm	0.0026 ppm	0.0044 ppm	77.8991 ppm	0.0005 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 3	12.0212 ppm	0.0030 ppm	0.0047 ppm	76.5422 ppm	0.0005 ppm	-0.0004 ppm	0.0012 ppm
Concentration RSD	0.2 %	15.1 %	4.3 %	6.5 %	186.4 %	34.3 %	23.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0025 ppm	1.2940 ppm	-0.0009 ppm	0.2676 ppm	0.0006 ppm	0.0018 ppm	0.0010 ppm
Concentration per Run 1	0.0016 ppm	1.3006 ppm	-0.0010 ppm	0.2826 ppm	0.0004 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 2	0.0026 ppm	1.2920 ppm	-0.0008 ppm	0.2601 ppm	0.0005 ppm	0.0023 ppm	0.0010 ppm
Concentration per Run 3	0.0032 ppm	1.2894 ppm	-0.0009 ppm	0.2601 ppm	0.0008 ppm	0.0025 ppm	0.0011 ppm
Concentration RSD	32.0 %	0.5 %	7.7 %	4.9 %	36.4 %	56.7 %	16.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0063 ppm	96.0468 %	92.9783 %	94.2312 %	88.7597 %	94.1635 %	93.3986 %
Concentration per Run 1	0.0064 ppm	91.3134 %	93.0995 %	94.5042 %	83.0215 %	93.9341 %	93.3433 %
Concentration per Run 2	0.0063 ppm	98.0865 %	93.0647 %	94.3646 %	90.5159 %	94.2129 %	93.3599 %
Concentration per Run 3	0.0062 ppm	98.7405 %	92.7707 %	93.8247 %	92.7416 %	94.3435 %	93.4926 %
Concentration RSD	1.0 %	4.3 %	0.2 %	0.4 %	5.7 %	0.2 %	0.1 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: WG1975260-3 WG1975260
Analysis started at: 9/24/2024 10:47:29 PM
Comments <Comment>
Rack: 2
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0536 ppm	2.2981 ppm	0.1245 ppm	1.0425 ppm	2.1432 ppm	0.0552 ppm	47.1290 ppm
Concentration per Run 1	0.0528 ppm	2.3709 ppm	0.1249 ppm	1.0372 ppm	2.2093 ppm	0.0568 ppm	47.8737 ppm
Concentration per Run 2	0.0538 ppm	2.2648 ppm	0.1235 ppm	1.0460 ppm	2.1180 ppm	0.0545 ppm	46.5611 ppm
Concentration per Run 3	0.0543 ppm	2.2586 ppm	0.1252 ppm	1.0443 ppm	2.1024 ppm	0.0541 ppm	46.9523 ppm
Concentration RSD	1.4 %	2.7 %	0.7 %	0.4 %	2.7 %	2.6 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0550 ppm	0.5094 ppm	0.2085 ppm	0.2659 ppm	0.9423 ppm	11.4510 ppm	0.0032 ppm
Concentration per Run 1	0.0548 ppm	0.5076 ppm	0.2087 ppm	0.2661 ppm	0.9592 ppm	11.6442 ppm	0.0049 ppm
Concentration per Run 2	0.0552 ppm	0.5114 ppm	0.2091 ppm	0.2666 ppm	0.9259 ppm	11.2771 ppm	0.0020 ppm
Concentration per Run 3	0.0551 ppm	0.5092 ppm	0.2077 ppm	0.2650 ppm	0.9417 ppm	11.4317 ppm	0.0028 ppm
Concentration RSD	0.4 %	0.4 %	0.4 %	0.3 %	1.8 %	1.6 %	47.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	21.5202 ppm	0.5470 ppm	0.9032 ppm	83.6954 ppm	0.5066 ppm	0.5377 ppm	0.4994 ppm
Concentration per Run 1	21.5697 ppm	0.5633 ppm	0.8705 ppm	86.3659 ppm	0.5051 ppm	0.5352 ppm	0.4911 ppm
Concentration per Run 2	21.5431 ppm	0.5403 ppm	0.9085 ppm	82.6910 ppm	0.5079 ppm	0.5392 ppm	0.5014 ppm
Concentration per Run 3	21.4477 ppm	0.5375 ppm	0.9306 ppm	82.0294 ppm	0.5067 ppm	0.5387 ppm	0.5058 ppm
Concentration RSD	0.3 %	2.6 %	3.4 %	2.8 %	0.3 %	0.4 %	1.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1244 ppm	1.9940 ppm	0.9577 ppm	1.1377 ppm	1.0345 ppm	0.1205 ppm	0.5184 ppm
Concentration per Run 1	0.1262 ppm	1.9878 ppm	0.9519 ppm	1.1560 ppm	1.0378 ppm	0.1211 ppm	0.5201 ppm
Concentration per Run 2	0.1246 ppm	1.9978 ppm	0.9611 ppm	1.1219 ppm	1.0357 ppm	0.1216 ppm	0.5184 ppm
Concentration per Run 3	0.1223 ppm	1.9964 ppm	0.9601 ppm	1.1353 ppm	1.0299 ppm	0.1188 ppm	0.5168 ppm
Concentration RSD	1.6 %	0.3 %	0.5 %	1.5 %	0.4 %	1.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5249 ppm	99.5416 %	93.7477 %	94.6133 %	95.2415 %	96.4838 %	96.6278 %
Concentration per Run 1	0.5236 ppm	98.6125 %	93.5631 %	94.7191 %	92.9734 %	96.7618 %	96.4429 %
Concentration per Run 2	0.5266 ppm	100.4304 %	93.9287 %	94.2100 %	95.8573 %	96.1847 %	96.7557 %
Concentration per Run 3	0.5243 ppm	99.5820 %	93.7515 %	94.9109 %	96.8939 %	96.5048 %	96.6848 %
Concentration RSD	0.3 %	0.9 %	0.2 %	0.4 %	2.1 %	0.3 %	0.2 %

ICP DataTrace 5

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LabBook: WG1975466_09242024T5.imexp

Sample: WG1975260-4 WG1975260
Analysis started at: 9/24/2024 10:53:34 PM
Comments <Comment>
Rack: 2
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.1676 ppm	0.0005 ppm	0.0447 ppm	0.0263 ppm	0.0000 ppm	38.7156 ppm
Concentration per Run 1	0.0002 ppm	0.1820 ppm	-0.0009 ppm	0.0447 ppm	0.0273 ppm	0.0001 ppm	39.9103 ppm
Concentration per Run 2	-0.0006 ppm	0.1541 ppm	0.0022 ppm	0.0448 ppm	0.0260 ppm	0.0000 ppm	37.6222 ppm
Concentration per Run 3	-0.0003 ppm	0.1668 ppm	0.0003 ppm	0.0447 ppm	0.0256 ppm	0.0000 ppm	38.6142 ppm
Concentration RSD	168.3 %	8.3 %	292.5 %	0.2 %	3.4 %	139.3 %	3.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0051 ppm	0.0111 ppm	1.9967 ppm	0.0037 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0049 ppm	0.0108 ppm	2.0539 ppm	0.0052 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0052 ppm	0.0098 ppm	1.9504 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0051 ppm	0.0128 ppm	1.9858 ppm	0.0036 ppm
Concentration RSD	231.4 %	168.6 %	123.3 %	3.0 %	13.7 %	2.6 %	40.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	11.7036 ppm	0.0026 ppm	0.0119 ppm	77.0528 ppm	0.0003 ppm	-0.0005 ppm	0.0046 ppm
Concentration per Run 1	11.9629 ppm	0.0029 ppm	0.0130 ppm	80.2296 ppm	0.0001 ppm	-0.0003 ppm	0.0039 ppm
Concentration per Run 2	11.5933 ppm	0.0029 ppm	0.0119 ppm	75.5759 ppm	0.0006 ppm	-0.0008 ppm	0.0063 ppm
Concentration per Run 3	11.5545 ppm	0.0020 ppm	0.0107 ppm	75.3528 ppm	0.0002 ppm	-0.0003 ppm	0.0035 ppm
Concentration RSD	1.9 %	20.1 %	10.0 %	3.6 %	86.0 %	54.7 %	34.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0027 ppm	1.2700 ppm	0.0016 ppm	0.2584 ppm	0.0012 ppm	0.0027 ppm	0.0015 ppm
Concentration per Run 1	0.0023 ppm	1.2723 ppm	0.0020 ppm	0.2659 ppm	0.0014 ppm	0.0027 ppm	0.0018 ppm
Concentration per Run 2	0.0010 ppm	1.2716 ppm	0.0015 ppm	0.2508 ppm	0.0009 ppm	0.0015 ppm	0.0013 ppm
Concentration per Run 3	0.0047 ppm	1.2662 ppm	0.0013 ppm	0.2584 ppm	0.0013 ppm	0.0039 ppm	0.0015 ppm
Concentration RSD	69.6 %	0.3 %	23.6 %	2.9 %	20.3 %	45.0 %	16.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0058 ppm	98.9968 %	93.7626 %	94.7738 %	92.1049 %	95.1901 %	95.3321 %
Concentration per Run 1	0.0060 ppm	96.2229 %	92.1575 %	95.3127 %	88.6434 %	95.3623 %	93.8873 %
Concentration per Run 2	0.0058 ppm	101.9966 %	94.8609 %	94.2885 %	93.8853 %	94.7347 %	96.1219 %
Concentration per Run 3	0.0058 ppm	98.7709 %	94.2694 %	94.7201 %	93.7860 %	95.4733 %	95.9871 %
Concentration RSD	1.6 %	2.9 %	1.5 %	0.5 %	3.3 %	0.4 %	1.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975260-5 WG1975260
Analysis started at: 9/24/2024 10:59:47 PM
Comments <Comment>
Rack: 2
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0508 ppm	2.3394 ppm	0.1253 ppm	1.0790 ppm	2.0988 ppm	0.0539 ppm	46.0998 ppm
Concentration per Run 1	0.0508 ppm	2.4124 ppm	0.1242 ppm	1.0812 ppm	2.1618 ppm	0.0555 ppm	46.5087 ppm
Concentration per Run 2	0.0508 ppm	2.3143 ppm	0.1268 ppm	1.0782 ppm	2.0850 ppm	0.0535 ppm	45.8514 ppm
Concentration per Run 3	0.0508 ppm	2.2916 ppm	0.1249 ppm	1.0775 ppm	2.0496 ppm	0.0525 ppm	45.9391 ppm
Concentration RSD	0.1 %	2.7 %	1.1 %	0.2 %	2.7 %	2.8 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0553 ppm	0.5121 ppm	0.2081 ppm	0.2671 ppm	0.9293 ppm	11.4122 ppm	0.0040 ppm
Concentration per Run 1	0.0554 ppm	0.5138 ppm	0.2085 ppm	0.2681 ppm	0.9300 ppm	11.5196 ppm	0.0031 ppm
Concentration per Run 2	0.0553 ppm	0.5121 ppm	0.2082 ppm	0.2662 ppm	0.9241 ppm	11.3398 ppm	0.0030 ppm
Concentration per Run 3	0.0551 ppm	0.5105 ppm	0.2077 ppm	0.2672 ppm	0.9338 ppm	11.3772 ppm	0.0058 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.4 %	0.5 %	0.8 %	40.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	21.7034 ppm	0.5346 ppm	0.9330 ppm	82.1190 ppm	0.5078 ppm	0.5368 ppm	0.4865 ppm
Concentration per Run 1	21.6858 ppm	0.5506 ppm	0.9051 ppm	84.6606 ppm	0.5102 ppm	0.5377 ppm	0.4793 ppm
Concentration per Run 2	21.7229 ppm	0.5310 ppm	0.9339 ppm	81.4697 ppm	0.5070 ppm	0.5374 ppm	0.4861 ppm
Concentration per Run 3	21.7016 ppm	0.5223 ppm	0.9600 ppm	80.2267 ppm	0.5062 ppm	0.5353 ppm	0.4941 ppm
Concentration RSD	0.1 %	2.7 %	2.9 %	2.8 %	0.4 %	0.2 %	1.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1243 ppm	2.4339 ppm	1.0081 ppm	1.1288 ppm	1.0626 ppm	0.1210 ppm	0.5186 ppm
Concentration per Run 1	0.1244 ppm	2.4427 ppm	1.0098 ppm	1.1372 ppm	1.0629 ppm	0.1191 ppm	0.5191 ppm
Concentration per Run 2	0.1250 ppm	2.4326 ppm	1.0079 ppm	1.1250 ppm	1.0617 ppm	0.1229 ppm	0.5181 ppm
Concentration per Run 3	0.1236 ppm	2.4264 ppm	1.0066 ppm	1.1243 ppm	1.0633 ppm	0.1211 ppm	0.5185 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %	0.6 %	0.1 %	1.6 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5276 ppm	99.6903 %	91.8232 %	92.7968 %	95.0909 %	94.7197 %	94.8863 %
Concentration per Run 1	0.5299 ppm	98.7493 %	92.2230 %	92.5866 %	92.1369 %	94.0102 %	95.1123 %
Concentration per Run 2	0.5271 ppm	100.4722 %	91.6189 %	93.1103 %	95.9932 %	94.9066 %	94.8026 %
Concentration per Run 3	0.5259 ppm	99.8494 %	91.6277 %	92.6934 %	97.1426 %	95.2421 %	94.7440 %
Concentration RSD	0.4 %	0.9 %	0.4 %	0.3 %	2.8 %	0.7 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: WG1975260-6D5 WG1975260
Analysis started at: 9/24/2024 11:05:53 PM
Comments <Comment>
Rack: 2
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0385 ppm	-0.0006 ppm	0.0108 ppm	0.0062 ppm	0.0000 ppm	7.5167 ppm
Concentration per Run 1	-0.0008 ppm	0.0419 ppm	-0.0024 ppm	0.0113 ppm	0.0069 ppm	0.0000 ppm	7.4473 ppm
Concentration per Run 2	0.0003 ppm	0.0439 ppm	0.0015 ppm	0.0108 ppm	0.0060 ppm	0.0000 ppm	7.5806 ppm
Concentration per Run 3	-0.0002 ppm	0.0298 ppm	-0.0009 ppm	0.0104 ppm	0.0057 ppm	0.0000 ppm	7.5222 ppm
Concentration RSD	246.5 %	19.9 %	335.6 %	4.3 %	10.0 %	332.9 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0031 ppm	0.4045 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0007 ppm	0.0036 ppm	0.3861 ppm	0.0024 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0010 ppm	0.0015 ppm	0.4342 ppm	-0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0042 ppm	0.3932 ppm	0.0031 ppm
Concentration RSD	266.8 %	755.9 %	146.6 %	24.5 %	45.2 %	6.4 %	162.5 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.4149 ppm	0.0008 ppm	0.0092 ppm	15.0838 ppm	-0.0002 ppm	0.0007 ppm	0.0084 ppm
Concentration per Run 1	2.4161 ppm	0.0011 ppm	0.0107 ppm	15.3614 ppm	-0.0001 ppm	0.0004 ppm	0.0098 ppm
Concentration per Run 2	2.4181 ppm	0.0005 ppm	0.0090 ppm	15.1665 ppm	-0.0001 ppm	0.0003 ppm	0.0078 ppm
Concentration per Run 3	2.4106 ppm	0.0007 ppm	0.0080 ppm	14.7236 ppm	-0.0003 ppm	0.0013 ppm	0.0074 ppm
Concentration RSD	0.2 %	38.0 %	14.8 %	2.2 %	90.5 %	91.2 %	15.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0009 ppm	0.2460 ppm	0.0025 ppm	0.0515 ppm	0.0006 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 1	0.0011 ppm	0.2490 ppm	0.0029 ppm	0.0513 ppm	0.0008 ppm	0.0012 ppm	0.0006 ppm
Concentration per Run 2	0.0035 ppm	0.2432 ppm	0.0023 ppm	0.0520 ppm	0.0006 ppm	0.0012 ppm	0.0007 ppm
Concentration per Run 3	-0.0019 ppm	0.2458 ppm	0.0023 ppm	0.0513 ppm	0.0003 ppm	-0.0016 ppm	0.0004 ppm
Concentration RSD	294.5 %	1.2 %	14.7 %	0.8 %	44.1 %	548.9 %	25.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0011 ppm	100.7167 %	93.9613 %	94.5494 %	95.7797 %	97.4097 %	96.9984 %
Concentration per Run 1	0.0011 ppm	101.1462 %	93.8526 %	94.6832 %	93.5916 %	97.2868 %	96.7960 %
Concentration per Run 2	0.0011 ppm	99.9017 %	93.9705 %	94.4521 %	95.2676 %	97.3508 %	97.0991 %
Concentration per Run 3	0.0011 ppm	101.1023 %	94.0609 %	94.5130 %	98.4797 %	97.5916 %	97.1001 %
Concentration RSD	1.1 %	0.7 %	0.1 %	0.1 %	2.6 %	0.2 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/24/2024 11:12:08 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5078 ppm	0.4954 ppm	0.4749 ppm	0.4838 ppm	0.4855 ppm	0.4910 ppm	0.4561 ppm
Concentration per Run 1	0.5083 ppm	0.4984 ppm	0.4747 ppm	0.4844 ppm	0.4902 ppm	0.4953 ppm	0.4671 ppm
Concentration per Run 2	0.5076 ppm	0.4869 ppm	0.4752 ppm	0.4833 ppm	0.4840 ppm	0.4896 ppm	0.4475 ppm
Concentration per Run 3	0.5076 ppm	0.5010 ppm	0.4749 ppm	0.4837 ppm	0.4822 ppm	0.4881 ppm	0.4536 ppm
Recovery Percentage 1	101.566 %	99.081 %	94.983 %	96.756 %	97.096 %	98.204 %	91.211 %
Concentration RSD	0.1 %	1.5 %	0.1 %	0.1 %	0.9 %	0.8 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4928 ppm	0.5010 ppm	0.5012 ppm	0.4853 ppm	0.4610 ppm	4.7839 ppm	0.4913 ppm
Concentration per Run 1	0.4937 ppm	0.5019 ppm	0.5033 ppm	0.4857 ppm	0.4611 ppm	4.8396 ppm	0.4947 ppm
Concentration per Run 2	0.4922 ppm	0.5001 ppm	0.5007 ppm	0.4845 ppm	0.4606 ppm	4.7500 ppm	0.4911 ppm
Concentration per Run 3	0.4927 ppm	0.5009 ppm	0.4995 ppm	0.4858 ppm	0.4614 ppm	4.7620 ppm	0.4881 ppm
Recovery Percentage 1	98.567 %	100.192 %	100.239 %	97.064 %	92.203 %	95.678 %	98.258 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.1 %	0.1 %	1.0 %	0.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4955 ppm	0.4929 ppm	0.4871 ppm	10.0568 ppm	0.4936 ppm	0.4920 ppm	0.4956 ppm
Concentration per Run 1	0.4983 ppm	0.4977 ppm	0.4833 ppm	10.1775 ppm	0.4952 ppm	0.4923 ppm	0.4951 ppm
Concentration per Run 2	0.4940 ppm	0.4913 ppm	0.4869 ppm	10.0229 ppm	0.4931 ppm	0.4921 ppm	0.4947 ppm
Concentration per Run 3	0.4943 ppm	0.4895 ppm	0.4912 ppm	9.9700 ppm	0.4927 ppm	0.4917 ppm	0.4971 ppm
Recovery Percentage 1	99.108 %	98.570 %	97.426 %	100.568 %	98.727 %	98.404 %	99.127 %
Concentration RSD	0.5 %	0.9 %	0.8 %	1.1 %	0.3 %	0.1 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4843 ppm	5.3202 ppm	0.4551 ppm	0.4337 ppm	0.4929 ppm	0.4971 ppm	0.4840 ppm
Concentration per Run 1	0.4840 ppm	5.3306 ppm	0.4565 ppm	0.4376 ppm	0.4934 ppm	0.4962 ppm	0.4844 ppm
Concentration per Run 2	0.4844 ppm	5.3123 ppm	0.4538 ppm	0.4318 ppm	0.4924 ppm	0.4971 ppm	0.4839 ppm
Concentration per Run 3	0.4846 ppm	5.3177 ppm	0.4549 ppm	0.4317 ppm	0.4930 ppm	0.4982 ppm	0.4837 ppm
Recovery Percentage 1	96.867 %	101.338 %	91.014 %	86.742 %	98.583 %	99.429 %	96.797 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.8 %	0.1 %	0.2 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4972 ppm	99.0068 %	95.1399 %	96.1631 %	101.4438 %	100.3819 %	99.2853 %
Concentration per Run 1	0.4987 ppm	97.3517 %	95.0551 %	96.2243 %	99.7349 %	100.1313 %	99.0560 %
Concentration per Run 2	0.4965 ppm	99.6648 %	95.3258 %	95.9700 %	101.9480 %	100.4349 %	99.5137 %
Concentration per Run 3	0.4965 ppm	100.0038 %	95.0389 %	96.2950 %	102.6484 %	100.5796 %	99.2861 %
Recovery Percentage 1	99.440 %						
Concentration RSD	0.3 %	1.5 %	0.2 %	0.2 %	1.5 %	0.2 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/24/2024 11:18:13 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	-0.0049 ppm	-0.0015 ppm	0.0018 ppm	0.0006 ppm	0.0005 ppm	0.0135 ppm
Concentration per Run 1	0.0003 ppm	-0.0045 ppm	-0.0014 ppm	0.0021 ppm	0.0010 ppm	0.0009 ppm	0.0109 ppm
Concentration per Run 2	0.0004 ppm	0.0008 ppm	-0.0011 ppm	0.0014 ppm	0.0006 ppm	0.0004 ppm	0.0190 ppm
Concentration per Run 3	0.0000 ppm	-0.0109 ppm	-0.0019 ppm	0.0018 ppm	0.0001 ppm	0.0002 ppm	0.0106 ppm
Recovery Percentage 1	2.826 %	-4.887 %	-29.511 %	5.837 %	6.091 %	10.124 %	13.516 %
Concentration RSD	105.5 %	119.7 %	25.8 %	20.1 %	74.4 %	61.9 %	35.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0054 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	-0.0270 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0006 ppm	0.0429 ppm	0.0017 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0014 ppm	-0.0320 ppm	-0.0007 ppm
Recovery Percentage 1	0.447 %	-0.112 %	0.089 %	-1.136 %	1.343 %	-0.216 %	-0.764 %
Concentration RSD	191.8 %	490.4 %	3,681.2 %	25.7 %	108.9 %	776.8 %	2,019.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0015 ppm	0.0007 ppm	0.0030 ppm	0.0134 ppm	-0.0003 ppm	0.0002 ppm	0.0026 ppm
Concentration per Run 1	0.0022 ppm	0.0012 ppm	0.0033 ppm	0.0192 ppm	-0.0006 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 2	0.0009 ppm	0.0006 ppm	0.0029 ppm	0.0176 ppm	-0.0001 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0013 ppm	0.0004 ppm	0.0028 ppm	0.0034 ppm	-0.0001 ppm	0.0004 ppm	0.0044 ppm
Recovery Percentage 1	1.469 %	7.055 %	6.007 %	0.672 %	-1.012 %	1.818 %	5.168 %
Concentration RSD	45.3 %	56.8 %	10.3 %	64.7 %	105.4 %	106.2 %	66.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0033 ppm	0.0021 ppm	0.0004 ppm	0.0005 ppm	0.0003 ppm	0.0013 ppm	0.0004 ppm
Concentration per Run 1	0.0043 ppm	0.0033 ppm	0.0006 ppm	0.0008 ppm	0.0001 ppm	0.0016 ppm	0.0004 ppm
Concentration per Run 2	0.0007 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0004 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 3	0.0049 ppm	0.0024 ppm	0.0006 ppm	0.0002 ppm	0.0006 ppm	0.0013 ppm	0.0004 ppm
Recovery Percentage 1	33.171 %	0.412 %	0.763 %	5.492 %	3.469 %	6.465 %	3.851 %
Concentration RSD	68.0 %	70.6 %	80.6 %	54.3 %	68.6 %	19.9 %	12.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	94.8095 %	94.5936 %	95.2796 %	92.7415 %	97.5984 %	96.0962 %
Concentration per Run 1	-0.0001 ppm	96.0902 %	94.7202 %	95.2262 %	93.0598 %	97.7405 %	96.0074 %
Concentration per Run 2	0.0000 ppm	92.9231 %	94.4828 %	95.2481 %	91.4353 %	97.5261 %	95.9057 %
Concentration per Run 3	0.0000 ppm	95.4152 %	94.5777 %	95.3647 %	93.7294 %	97.5287 %	96.3754 %
Recovery Percentage 1	-0.204 %						
Concentration RSD	419.8 %	1.8 %	0.1 %	0.1 %	1.3 %	0.1 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: wg1975278-6D5 wg1975278
Analysis started at: 9/24/2024 11:24:32 PM
Comments <Comment>
Rack: 2
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0133 ppm	-0.0001 ppm	0.0038 ppm	0.0076 ppm	0.0000 ppm	3.2800 ppm
Concentration per Run 1	-0.0005 ppm	0.0208 ppm	-0.0004 ppm	0.0041 ppm	0.0078 ppm	0.0000 ppm	3.2527 ppm
Concentration per Run 2	-0.0001 ppm	0.0054 ppm	0.0008 ppm	0.0036 ppm	0.0076 ppm	0.0000 ppm	3.2836 ppm
Concentration per Run 3	-0.0003 ppm	0.0136 ppm	-0.0007 ppm	0.0037 ppm	0.0073 ppm	0.0000 ppm	3.3036 ppm
Concentration RSD	61.2 %	57.9 %	551.6 %	7.9 %	3.2 %	188.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0028 ppm	0.0025 ppm	0.3745 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0029 ppm	0.0011 ppm	0.3508 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0030 ppm	0.0025 ppm	0.3999 ppm	-0.0020 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0024 ppm	0.0039 ppm	0.3727 ppm	-0.0001 ppm
Concentration RSD	470.8 %	370.1 %	135.2 %	10.5 %	57.6 %	6.6 %	837.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.8118 ppm	0.0002 ppm	0.0012 ppm	20.5112 ppm	-0.0003 ppm	0.0002 ppm	0.0017 ppm
Concentration per Run 1	0.8104 ppm	0.0004 ppm	0.0016 ppm	20.8753 ppm	-0.0006 ppm	0.0008 ppm	0.0012 ppm
Concentration per Run 2	0.8167 ppm	0.0005 ppm	0.0011 ppm	20.5830 ppm	-0.0001 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 3	0.8084 ppm	-0.0001 ppm	0.0010 ppm	20.0753 ppm	-0.0001 ppm	-0.0001 ppm	0.0037 ppm
Concentration RSD	0.5 %	141.7 %	30.0 %	2.0 %	112.2 %	313.5 %	102.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	0.4238 ppm	-0.0005 ppm	0.0184 ppm	-0.0001 ppm	0.0015 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.4252 ppm	-0.0007 ppm	0.0183 ppm	0.0002 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 2	-0.0005 ppm	0.4224 ppm	-0.0008 ppm	0.0184 ppm	-0.0004 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 3	0.0016 ppm	0.4239 ppm	0.0001 ppm	0.0186 ppm	0.0000 ppm	0.0017 ppm	0.0002 ppm
Concentration RSD	358.9 %	0.3 %	111.2 %	0.7 %	653.6 %	13.1 %	29.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0043 ppm	100.3875 %	93.7537 %	95.2344 %	95.1257 %	98.2475 %	96.6028 %
Concentration per Run 1	0.0044 ppm	100.5879 %	93.8566 %	95.5766 %	93.2980 %	98.0065 %	96.4833 %
Concentration per Run 2	0.0043 ppm	100.1897 %	93.4661 %	95.1648 %	94.4627 %	98.2137 %	96.1827 %
Concentration per Run 3	0.0043 ppm	100.3848 %	93.9385 %	94.9619 %	97.6163 %	98.5222 %	97.1424 %
Concentration RSD	1.3 %	0.2 %	0.3 %	0.3 %	2.3 %	0.3 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453261-02 wg1975278
Analysis started at: 9/24/2024 11:30:46 PM
Comments <Comment>
Rack: 2
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0155 ppm	0.0007 ppm	0.0157 ppm	0.0378 ppm	0.0000 ppm	16.1810 ppm
Concentration per Run 1	-0.0001 ppm	0.0063 ppm	0.0010 ppm	0.0155 ppm	0.0395 ppm	0.0000 ppm	16.4241 ppm
Concentration per Run 2	-0.0002 ppm	0.0213 ppm	0.0010 ppm	0.0157 ppm	0.0374 ppm	0.0000 ppm	16.0363 ppm
Concentration per Run 3	0.0005 ppm	0.0188 ppm	0.0002 ppm	0.0159 ppm	0.0366 ppm	0.0000 ppm	16.0824 ppm
Concentration RSD	498.1 %	52.2 %	67.0 %	1.3 %	3.9 %	1,830.3 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0009 ppm	0.0137 ppm	0.0039 ppm	1.9850 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0011 ppm	0.0137 ppm	0.0043 ppm	2.0089 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0012 ppm	0.0139 ppm	0.0029 ppm	1.9787 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0135 ppm	0.0047 ppm	1.9675 ppm	-0.0025 ppm
Concentration RSD	262.4 %	145.6 %	41.2 %	1.3 %	24.3 %	1.1 %	12,499.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.0013 ppm	0.0021 ppm	0.0011 ppm	104.2602 ppm	-0.0001 ppm	-0.0009 ppm	0.0017 ppm
Concentration per Run 1	4.0038 ppm	0.0025 ppm	0.0010 ppm	108.0271 ppm	-0.0001 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 2	3.9854 ppm	0.0018 ppm	0.0010 ppm	103.2818 ppm	-0.0003 ppm	-0.0003 ppm	0.0017 ppm
Concentration per Run 3	4.0147 ppm	0.0019 ppm	0.0013 ppm	101.4717 ppm	0.0000 ppm	-0.0011 ppm	0.0033 ppm
Concentration RSD	0.4 %	16.8 %	16.4 %	3.2 %	149.9 %	57.2 %	101.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	2.1364 ppm	-0.0010 ppm	0.0896 ppm	-0.0001 ppm	0.0025 ppm	0.0005 ppm
Concentration per Run 1	0.0027 ppm	2.1619 ppm	-0.0004 ppm	0.0909 ppm	0.0000 ppm	0.0011 ppm	0.0009 ppm
Concentration per Run 2	-0.0015 ppm	2.1227 ppm	-0.0013 ppm	0.0887 ppm	0.0004 ppm	0.0038 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	2.1247 ppm	-0.0015 ppm	0.0891 ppm	-0.0006 ppm	0.0027 ppm	0.0002 ppm
Concentration RSD	470.8 %	1.0 %	57.6 %	1.3 %	683.6 %	53.4 %	83.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0027 ppm	99.2627 %	92.7994 %	94.2953 %	90.2583 %	94.7866 %	93.5069 %
Concentration per Run 1	0.0028 ppm	97.6891 %	93.2386 %	94.1094 %	86.8707 %	93.9156 %	93.3998 %
Concentration per Run 2	0.0026 ppm	99.9184 %	93.0117 %	94.7978 %	90.7392 %	95.1905 %	93.9014 %
Concentration per Run 3	0.0027 ppm	100.1806 %	92.1480 %	93.9786 %	93.1650 %	95.2536 %	93.2195 %
Concentration RSD	3.8 %	1.4 %	0.6 %	0.5 %	3.5 %	0.8 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: wg1975278-2 wg1975278
Analysis started at: 9/24/2024 11:37:02 PM
Comments <Comment>
Rack: 2
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0558 ppm	2.2383 ppm	0.1252 ppm	1.0097 ppm	2.2036 ppm	0.0566 ppm	9.7237 ppm
Concentration per Run 1	0.0563 ppm	2.2374 ppm	0.1234 ppm	1.0063 ppm	2.2069 ppm	0.0564 ppm	9.4436 ppm
Concentration per Run 2	0.0552 ppm	2.2505 ppm	0.1264 ppm	1.0113 ppm	2.2143 ppm	0.0571 ppm	9.7442 ppm
Concentration per Run 3	0.0559 ppm	2.2270 ppm	0.1257 ppm	1.0115 ppm	2.1896 ppm	0.0564 ppm	9.9832 ppm
Concentration RSD	1.0 %	0.5 %	1.2 %	0.3 %	0.6 %	0.8 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0566 ppm	0.5265 ppm	0.2176 ppm	0.2700 ppm	0.9848 ppm	10.0772 ppm	-0.0021 ppm
Concentration per Run 1	0.0565 ppm	0.5256 ppm	0.2194 ppm	0.2721 ppm	0.9476 ppm	9.7784 ppm	-0.0021 ppm
Concentration per Run 2	0.0566 ppm	0.5272 ppm	0.2157 ppm	0.2684 ppm	0.9892 ppm	10.1257 ppm	-0.0015 ppm
Concentration per Run 3	0.0566 ppm	0.5267 ppm	0.2177 ppm	0.2694 ppm	1.0177 ppm	10.3276 ppm	-0.0026 ppm
Concentration RSD	0.1 %	0.1 %	0.9 %	0.7 %	3.6 %	2.8 %	25.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.6696 ppm	0.5682 ppm	0.9671 ppm	11.5559 ppm	0.5236 ppm	0.5640 ppm	0.5106 ppm
Concentration per Run 1	10.7363 ppm	0.5678 ppm	0.9418 ppm	11.5918 ppm	0.5237 ppm	0.5635 ppm	0.5054 ppm
Concentration per Run 2	10.6121 ppm	0.5707 ppm	0.9690 ppm	11.6234 ppm	0.5238 ppm	0.5643 ppm	0.5121 ppm
Concentration per Run 3	10.6604 ppm	0.5660 ppm	0.9905 ppm	11.4524 ppm	0.5233 ppm	0.5642 ppm	0.5143 ppm
Concentration RSD	0.6 %	0.4 %	2.5 %	0.8 %	0.1 %	0.1 %	0.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1241 ppm	0.7770 ppm	0.9886 ppm	0.9309 ppm	1.0731 ppm	0.1275 ppm	0.5323 ppm
Concentration per Run 1	0.1219 ppm	0.7764 ppm	0.9843 ppm	0.9027 ppm	1.0810 ppm	0.1273 ppm	0.5352 ppm
Concentration per Run 2	0.1244 ppm	0.7778 ppm	0.9918 ppm	0.9349 ppm	1.0659 ppm	0.1275 ppm	0.5296 ppm
Concentration per Run 3	0.1259 ppm	0.7769 ppm	0.9896 ppm	0.9549 ppm	1.0724 ppm	0.1278 ppm	0.5320 ppm
Concentration RSD	1.6 %	0.1 %	0.4 %	2.8 %	0.7 %	0.2 %	0.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5303 ppm	98.7063 %	94.2577 %	95.4238 %	95.0038 %	98.8477 %	97.2664 %
Concentration per Run 1	0.5295 ppm	101.5770 %	94.1685 %	95.5337 %	94.8735 %	98.9717 %	96.8918 %
Concentration per Run 2	0.5307 ppm	98.2260 %	94.2141 %	95.3877 %	94.4000 %	98.9122 %	97.2878 %
Concentration per Run 3	0.5308 ppm	96.3160 %	94.3906 %	95.3500 %	95.7378 %	98.6592 %	97.6196 %
Concentration RSD	0.1 %	2.7 %	0.1 %	0.1 %	0.7 %	0.2 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: L2453261-01 wg1975278
Analysis started at: 9/24/2024 11:43:08 PM
Comments <Comment>
Rack: 2
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0319 ppm	0.0000 ppm	0.0178 ppm	0.0404 ppm	0.0001 ppm	16.5074 ppm
Concentration per Run 1	0.0001 ppm	0.0184 ppm	-0.0010 ppm	0.0179 ppm	0.0433 ppm	0.0002 ppm	16.9665 ppm
Concentration per Run 2	0.0001 ppm	0.0418 ppm	-0.0002 ppm	0.0179 ppm	0.0395 ppm	0.0000 ppm	16.0931 ppm
Concentration per Run 3	-0.0003 ppm	0.0355 ppm	0.0012 ppm	0.0175 ppm	0.0383 ppm	0.0000 ppm	16.4626 ppm
Concentration RSD	971.9 %	38.0 %	4,401.0 %	1.4 %	6.3 %	158.1 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0009 ppm	0.0155 ppm	0.0116 ppm	2.0238 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0010 ppm	0.0156 ppm	0.0131 ppm	2.0568 ppm	0.0037 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0010 ppm	0.0153 ppm	0.0101 ppm	1.9595 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0156 ppm	0.0115 ppm	2.0551 ppm	0.0000 ppm
Concentration RSD	151.9 %	71.1 %	16.3 %	1.3 %	12.8 %	2.7 %	164.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.0526 ppm	0.0015 ppm	0.0075 ppm	103.2709 ppm	-0.0004 ppm	-0.0003 ppm	0.0040 ppm
Concentration per Run 1	4.0637 ppm	0.0021 ppm	0.0086 ppm	108.1589 ppm	-0.0003 ppm	0.0008 ppm	0.0045 ppm
Concentration per Run 2	4.0536 ppm	0.0011 ppm	0.0073 ppm	101.0893 ppm	-0.0003 ppm	-0.0007 ppm	0.0029 ppm
Concentration per Run 3	4.0404 ppm	0.0014 ppm	0.0065 ppm	100.5646 ppm	-0.0005 ppm	-0.0009 ppm	0.0047 ppm
Concentration RSD	0.3 %	32.0 %	14.3 %	4.1 %	40.0 %	335.4 %	23.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0010 ppm	2.1884 ppm	0.0005 ppm	0.0919 ppm	0.0003 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run 1	0.0027 ppm	2.2056 ppm	0.0014 ppm	0.0947 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	-0.0008 ppm	2.1861 ppm	0.0002 ppm	0.0896 ppm	0.0007 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 3	0.0011 ppm	2.1736 ppm	0.0000 ppm	0.0916 ppm	0.0003 ppm	0.0030 ppm	0.0000 ppm
Concentration RSD	171.6 %	0.7 %	145.6 %	2.8 %	85.7 %	183.4 %	141.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0223 ppm	99.9154 %	92.4700 %	93.7928 %	92.9045 %	94.2671 %	93.7616 %
Concentration per Run 1	0.0224 ppm	97.2752 %	92.5159 %	94.0909 %	88.6696 %	93.9343 %	93.4652 %
Concentration per Run 2	0.0223 ppm	102.0136 %	92.4290 %	93.6254 %	94.4919 %	94.1511 %	93.7380 %
Concentration per Run 3	0.0223 ppm	100.4574 %	92.4653 %	93.6620 %	95.5521 %	94.7157 %	94.0815 %
Concentration RSD	0.2 %	2.4 %	0.0 %	0.3 %	4.0 %	0.4 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: wg1975278-3 wg1975278
Analysis started at: 9/24/2024 11:49:21 PM
Comments <Comment>
Rack: 2
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0539 ppm	2.1768 ppm	0.1256 ppm	1.0234 ppm	2.1559 ppm	0.0552 ppm	25.9414 ppm
Concentration per Run 1	0.0542 ppm	2.2316 ppm	0.1272 ppm	1.0254 ppm	2.2144 ppm	0.0566 ppm	26.1247 ppm
Concentration per Run 2	0.0542 ppm	2.1525 ppm	0.1244 ppm	1.0228 ppm	2.1338 ppm	0.0546 ppm	25.6956 ppm
Concentration per Run 3	0.0532 ppm	2.1464 ppm	0.1253 ppm	1.0220 ppm	2.1196 ppm	0.0543 ppm	26.0039 ppm
Concentration RSD	1.1 %	2.2 %	1.1 %	0.2 %	2.4 %	2.3 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0560 ppm	0.5182 ppm	0.2098 ppm	0.2772 ppm	0.9464 ppm	11.4819 ppm	-0.0010 ppm
Concentration per Run 1	0.0562 ppm	0.5197 ppm	0.2100 ppm	0.2790 ppm	0.9502 ppm	11.5937 ppm	-0.0014 ppm
Concentration per Run 2	0.0559 ppm	0.5175 ppm	0.2103 ppm	0.2768 ppm	0.9373 ppm	11.3788 ppm	-0.0012 ppm
Concentration per Run 3	0.0559 ppm	0.5174 ppm	0.2092 ppm	0.2757 ppm	0.9517 ppm	11.4733 ppm	-0.0003 ppm
Concentration RSD	0.3 %	0.2 %	0.3 %	0.6 %	0.8 %	0.9 %	56.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.9602 ppm	0.5459 ppm	0.9161 ppm	111.0371 ppm	0.5136 ppm	0.5412 ppm	0.5358 ppm
Concentration per Run 1	13.9718 ppm	0.5609 ppm	0.8888 ppm	114.2386 ppm	0.5153 ppm	0.5428 ppm	0.5365 ppm
Concentration per Run 2	13.9517 ppm	0.5399 ppm	0.9170 ppm	109.7523 ppm	0.5124 ppm	0.5392 ppm	0.5357 ppm
Concentration per Run 3	13.9571 ppm	0.5368 ppm	0.9426 ppm	109.1204 ppm	0.5130 ppm	0.5416 ppm	0.5351 ppm
Concentration RSD	0.1 %	2.4 %	2.9 %	2.5 %	0.3 %	0.3 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1253 ppm	2.9817 ppm	0.9645 ppm	0.9708 ppm	1.0372 ppm	0.1209 ppm	0.5222 ppm
Concentration per Run 1	0.1208 ppm	2.9925 ppm	0.9662 ppm	0.9792 ppm	1.0389 ppm	0.1196 ppm	0.5220 ppm
Concentration per Run 2	0.1288 ppm	2.9731 ppm	0.9625 ppm	0.9612 ppm	1.0368 ppm	0.1213 ppm	0.5226 ppm
Concentration per Run 3	0.1262 ppm	2.9795 ppm	0.9648 ppm	0.9719 ppm	1.0358 ppm	0.1219 ppm	0.5219 ppm
Concentration RSD	3.2 %	0.3 %	0.2 %	0.9 %	0.2 %	1.0 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5346 ppm	98.3916 %	92.6758 %	93.0685 %	94.3660 %	95.2997 %	95.8273 %
Concentration per Run 1	0.5363 ppm	97.4630 %	93.0231 %	93.3456 %	91.7357 %	94.9969 %	95.8965 %
Concentration per Run 2	0.5337 ppm	99.5021 %	92.7321 %	93.0694 %	95.4615 %	95.4203 %	95.9739 %
Concentration per Run 3	0.5337 ppm	98.2096 %	92.2722 %	92.7905 %	95.9010 %	95.4820 %	95.6115 %
Concentration RSD	0.3 %	1.0 %	0.4 %	0.3 %	2.4 %	0.3 %	0.2 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: wg1975278-4 wg1975278
Analysis started at: 9/24/2024 11:55:25 PM
Comments <Comment>
Rack: 2
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0239 ppm	0.0013 ppm	0.0181 ppm	0.0393 ppm	0.0000 ppm	16.5089 ppm
Concentration per Run 1	0.0001 ppm	0.0233 ppm	0.0011 ppm	0.0184 ppm	0.0408 ppm	0.0000 ppm	16.9805 ppm
Concentration per Run 2	0.0003 ppm	0.0324 ppm	0.0027 ppm	0.0180 ppm	0.0389 ppm	-0.0001 ppm	16.2914 ppm
Concentration per Run 3	0.0001 ppm	0.0160 ppm	0.0002 ppm	0.0178 ppm	0.0380 ppm	0.0000 ppm	16.2548 ppm
Concentration RSD	59.8 %	34.2 %	91.8 %	1.9 %	3.6 %	131.6 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0007 ppm	0.0156 ppm	0.0094 ppm	2.0134 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0008 ppm	0.0154 ppm	0.0097 ppm	2.1034 ppm	-0.0022 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0004 ppm	0.0154 ppm	0.0077 ppm	1.9828 ppm	0.0031 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	-0.0008 ppm	0.0160 ppm	0.0108 ppm	1.9538 ppm	-0.0027 ppm
Concentration RSD	30.9 %	48.5 %	31.5 %	2.2 %	16.8 %	3.9 %	518.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.9406 ppm	0.0014 ppm	0.0087 ppm	102.7911 ppm	-0.0003 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 1	3.9470 ppm	0.0013 ppm	0.0100 ppm	106.2333 ppm	0.0001 ppm	-0.0006 ppm	0.0027 ppm
Concentration per Run 2	3.9366 ppm	0.0021 ppm	0.0088 ppm	102.1388 ppm	-0.0004 ppm	0.0007 ppm	0.0006 ppm
Concentration per Run 3	3.9381 ppm	0.0009 ppm	0.0073 ppm	100.0012 ppm	-0.0006 ppm	-0.0002 ppm	0.0013 ppm
Concentration RSD	0.1 %	41.0 %	15.5 %	3.1 %	115.8 %	1,519.0 %	72.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0035 ppm	2.1346 ppm	0.0014 ppm	0.0916 ppm	0.0011 ppm	0.0015 ppm	0.0009 ppm
Concentration per Run 1	0.0041 ppm	2.1388 ppm	0.0012 ppm	0.0940 ppm	0.0010 ppm	0.0023 ppm	0.0007 ppm
Concentration per Run 2	0.0009 ppm	2.1375 ppm	0.0016 ppm	0.0904 ppm	0.0010 ppm	0.0010 ppm	0.0011 ppm
Concentration per Run 3	0.0056 ppm	2.1276 ppm	0.0014 ppm	0.0903 ppm	0.0013 ppm	0.0013 ppm	0.0008 ppm
Concentration RSD	67.3 %	0.3 %	13.2 %	2.3 %	17.2 %	46.1 %	22.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0037 ppm	97.2074 %	92.2220 %	93.5774 %	90.6815 %	94.2029 %	93.6839 %
Concentration per Run 1	0.0037 ppm	95.0936 %	92.1012 %	94.0208 %	88.1464 %	93.9462 %	93.3664 %
Concentration per Run 2	0.0036 ppm	97.8530 %	92.5320 %	93.4767 %	90.7198 %	94.3382 %	93.9223 %
Concentration per Run 3	0.0037 ppm	98.6757 %	92.0327 %	93.2348 %	93.1784 %	94.3245 %	93.7630 %
Concentration RSD	1.8 %	1.9 %	0.3 %	0.4 %	2.8 %	0.2 %	0.3 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: wg1975278-5 wg1975278
Analysis started at: 9/25/2024 12:01:40 AM
Comments <Comment>
Rack: 2
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0497 ppm	2.2059 ppm	0.1235 ppm	1.0398 ppm	2.1755 ppm	0.0555 ppm	26.1490 ppm
Concentration per Run 1	0.0498 ppm	2.2805 ppm	0.1251 ppm	1.0423 ppm	2.2506 ppm	0.0573 ppm	26.8564 ppm
Concentration per Run 2	0.0499 ppm	2.2193 ppm	0.1238 ppm	1.0395 ppm	2.1678 ppm	0.0554 ppm	25.8594 ppm
Concentration per Run 3	0.0494 ppm	2.1179 ppm	0.1217 ppm	1.0378 ppm	2.1080 ppm	0.0538 ppm	25.7312 ppm
Concentration RSD	0.5 %	3.7 %	1.4 %	0.2 %	3.3 %	3.1 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0551 ppm	0.5095 ppm	0.2055 ppm	0.2737 ppm	0.9646 ppm	11.8522 ppm	-0.0028 ppm
Concentration per Run 1	0.0553 ppm	0.5113 ppm	0.2044 ppm	0.2746 ppm	0.9872 ppm	12.1449 ppm	-0.0005 ppm
Concentration per Run 2	0.0550 ppm	0.5091 ppm	0.2060 ppm	0.2738 ppm	0.9524 ppm	11.7401 ppm	-0.0046 ppm
Concentration per Run 3	0.0549 ppm	0.5080 ppm	0.2061 ppm	0.2728 ppm	0.9542 ppm	11.6716 ppm	-0.0032 ppm
Concentration RSD	0.4 %	0.3 %	0.4 %	0.3 %	2.0 %	2.2 %	76.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	13.9530 ppm	0.5493 ppm	0.9268 ppm	109.8093 ppm	0.5057 ppm	0.5339 ppm	0.4779 ppm
Concentration per Run 1	13.9379 ppm	0.5681 ppm	0.8993 ppm	113.2228 ppm	0.5079 ppm	0.5375 ppm	0.4698 ppm
Concentration per Run 2	13.9308 ppm	0.5478 ppm	0.9273 ppm	109.4537 ppm	0.5047 ppm	0.5335 ppm	0.4776 ppm
Concentration per Run 3	13.9904 ppm	0.5321 ppm	0.9538 ppm	106.7515 ppm	0.5047 ppm	0.5306 ppm	0.4862 ppm
Concentration RSD	0.2 %	3.3 %	2.9 %	3.0 %	0.4 %	0.6 %	1.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1245 ppm	3.2988 ppm	1.0003 ppm	1.0039 ppm	1.0514 ppm	0.1198 ppm	0.5131 ppm
Concentration per Run 1	0.1288 ppm	3.3038 ppm	1.0013 ppm	1.0309 ppm	1.0499 ppm	0.1208 ppm	0.5127 ppm
Concentration per Run 2	0.1216 ppm	3.2931 ppm	0.9999 ppm	0.9943 ppm	1.0507 ppm	0.1202 ppm	0.5127 ppm
Concentration per Run 3	0.1232 ppm	3.2997 ppm	0.9998 ppm	0.9865 ppm	1.0538 ppm	0.1185 ppm	0.5139 ppm
Concentration RSD	3.0 %	0.2 %	0.1 %	2.4 %	0.2 %	1.0 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5437 ppm	96.3300 %	92.3275 %	93.4058 %	92.4444 %	95.4594 %	95.8100 %
Concentration per Run 1	0.5464 ppm	94.0347 %	92.6427 %	93.6178 %	89.7560 %	95.2365 %	95.8712 %
Concentration per Run 2	0.5429 ppm	97.8551 %	92.6059 %	93.3772 %	93.1094 %	95.6249 %	96.1777 %
Concentration per Run 3	0.5419 ppm	97.1002 %	91.7341 %	93.2226 %	94.4678 %	95.5169 %	95.3810 %
Concentration RSD	0.4 %	2.1 %	0.6 %	0.2 %	2.6 %	0.2 %	0.4 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/25/2024 12:07:44 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5065 ppm	0.5016 ppm	0.4786 ppm	0.4864 ppm	0.4883 ppm	0.4923 ppm	0.4734 ppm
Concentration per Run 1	0.5053 ppm	0.5140 ppm	0.4790 ppm	0.4845 ppm	0.4935 ppm	0.4967 ppm	0.4867 ppm
Concentration per Run 2	0.5073 ppm	0.4870 ppm	0.4791 ppm	0.4857 ppm	0.4862 ppm	0.4914 ppm	0.4621 ppm
Concentration per Run 3	0.5070 ppm	0.5039 ppm	0.4776 ppm	0.4891 ppm	0.4852 ppm	0.4888 ppm	0.4713 ppm
Recovery Percentage 1	101.305 %	100.326 %	95.715 %	97.279 %	97.663 %	98.458 %	94.682 %
Concentration RSD	0.2 %	2.7 %	0.2 %	0.5 %	0.9 %	0.8 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4936 ppm	0.5021 ppm	0.4995 ppm	0.4857 ppm	0.4662 ppm	4.8282 ppm	0.4900 ppm
Concentration per Run 1	0.4930 ppm	0.5015 ppm	0.4990 ppm	0.4863 ppm	0.4727 ppm	4.9090 ppm	0.4940 ppm
Concentration per Run 2	0.4931 ppm	0.5013 ppm	0.4992 ppm	0.4848 ppm	0.4615 ppm	4.7904 ppm	0.4895 ppm
Concentration per Run 3	0.4948 ppm	0.5035 ppm	0.5003 ppm	0.4858 ppm	0.4644 ppm	4.7851 ppm	0.4865 ppm
Recovery Percentage 1	98.723 %	100.421 %	99.903 %	97.132 %	93.240 %	96.563 %	98.007 %
Concentration RSD	0.2 %	0.2 %	0.1 %	0.2 %	1.2 %	1.5 %	0.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4957 ppm	0.4936 ppm	0.4943 ppm	10.1090 ppm	0.4950 ppm	0.4938 ppm	0.5004 ppm
Concentration per Run 1	0.4966 ppm	0.4977 ppm	0.4902 ppm	10.2400 ppm	0.4944 ppm	0.4937 ppm	0.5003 ppm
Concentration per Run 2	0.4939 ppm	0.4919 ppm	0.4945 ppm	10.0740 ppm	0.4943 ppm	0.4932 ppm	0.4994 ppm
Concentration per Run 3	0.4966 ppm	0.4911 ppm	0.4982 ppm	10.0131 ppm	0.4963 ppm	0.4945 ppm	0.5014 ppm
Recovery Percentage 1	99.136 %	98.714 %	98.855 %	101.090 %	99.000 %	98.764 %	100.070 %
Concentration RSD	0.3 %	0.7 %	0.8 %	1.2 %	0.2 %	0.1 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4859 ppm	5.3326 ppm	0.4591 ppm	0.4352 ppm	0.4924 ppm	0.4974 ppm	0.4838 ppm
Concentration per Run 1	0.4862 ppm	5.3273 ppm	0.4588 ppm	0.4416 ppm	0.4924 ppm	0.4981 ppm	0.4827 ppm
Concentration per Run 2	0.4856 ppm	5.3219 ppm	0.4582 ppm	0.4321 ppm	0.4930 ppm	0.4969 ppm	0.4843 ppm
Concentration per Run 3	0.4859 ppm	5.3487 ppm	0.4603 ppm	0.4320 ppm	0.4919 ppm	0.4971 ppm	0.4845 ppm
Recovery Percentage 1	97.179 %	101.574 %	91.821 %	87.045 %	98.484 %	99.477 %	96.763 %
Concentration RSD	0.1 %	0.3 %	0.2 %	1.3 %	0.1 %	0.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4971 ppm	97.2889 %	95.1727 %	96.3496 %	100.1581 %	100.3430 %	99.4687 %
Concentration per Run 1	0.4960 ppm	95.4678 %	95.3863 %	96.4628 %	98.6518 %	100.4947 %	99.6811 %
Concentration per Run 2	0.4971 ppm	98.3073 %	95.4056 %	96.3871 %	100.7237 %	100.5057 %	99.7857 %
Concentration per Run 3	0.4983 ppm	98.0917 %	94.7263 %	96.1990 %	101.0989 %	100.0285 %	98.9392 %
Recovery Percentage 1	99.428 %						
Concentration RSD	0.2 %	1.6 %	0.4 %	0.1 %	1.3 %	0.3 %	0.5 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/25/2024 12:13:48 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0027 ppm	-0.0009 ppm	0.0023 ppm	0.0008 ppm	0.0003 ppm	0.0093 ppm
Concentration per Run 1	0.0002 ppm	-0.0135 ppm	-0.0006 ppm	0.0023 ppm	0.0011 ppm	0.0005 ppm	0.0153 ppm
Concentration per Run 2	0.0001 ppm	0.0113 ppm	-0.0026 ppm	0.0022 ppm	0.0005 ppm	0.0003 ppm	0.0051 ppm
Concentration per Run 3	-0.0004 ppm	0.0103 ppm	0.0006 ppm	0.0024 ppm	0.0006 ppm	0.0001 ppm	0.0075 ppm
Recovery Percentage 1	-0.393 %	2.720 %	-17.651 %	7.698 %	7.531 %	5.738 %	9.286 %
Concentration RSD	1,195.9 %	515.3 %	183.0 %	3.4 %	38.1 %	56.0 %	57.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0005 ppm	-0.0002 ppm	0.0003 ppm	-0.0049 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0018 ppm	0.0175 ppm	0.0028 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	-0.0008 ppm	0.0000 ppm	0.0004 ppm	-0.0163 ppm	0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	-0.0012 ppm	-0.0161 ppm	-0.0015 ppm
Recovery Percentage 1	0.023 %	0.453 %	-5.157 %	-1.569 %	0.669 %	-0.197 %	9.773 %
Concentration RSD	2,019.3 %	193.3 %	43.5 %	87.5 %	445.6 %	394.6 %	226.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0002 ppm	0.0003 ppm	0.0043 ppm	0.0280 ppm	-0.0003 ppm	-0.0002 ppm	0.0035 ppm
Concentration per Run 1	0.0012 ppm	0.0004 ppm	0.0047 ppm	0.0314 ppm	-0.0004 ppm	0.0001 ppm	0.0036 ppm
Concentration per Run 2	-0.0032 ppm	0.0003 ppm	0.0043 ppm	0.0211 ppm	-0.0002 ppm	-0.0001 ppm	0.0050 ppm
Concentration per Run 3	0.0016 ppm	0.0002 ppm	0.0039 ppm	0.0316 ppm	-0.0004 ppm	-0.0006 ppm	0.0018 ppm
Recovery Percentage 1	-0.176 %	3.157 %	8.618 %	1.402 %	-1.208 %	-2.204 %	6.904 %
Concentration RSD	1,517.9 %	23.9 %	9.6 %	21.4 %	39.5 %	151.2 %	46.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	0.0018 ppm	0.0011 ppm	0.0004 ppm	0.0003 ppm	0.0009 ppm	0.0005 ppm
Concentration per Run 1	0.0010 ppm	0.0012 ppm	0.0012 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.0005 ppm	0.0027 ppm	0.0011 ppm	0.0004 ppm	0.0005 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 3	-0.0003 ppm	0.0016 ppm	0.0010 ppm	0.0002 ppm	0.0005 ppm	0.0014 ppm	0.0006 ppm
Recovery Percentage 1	4.185 %	0.366 %	2.168 %	3.902 %	3.420 %	4.738 %	5.478 %
Concentration RSD	159.7 %	42.6 %	9.3 %	39.8 %	84.3 %	64.6 %	6.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	92.6872 %	94.7210 %	95.7615 %	90.0529 %	97.8413 %	96.3519 %
Concentration per Run 1	0.0000 ppm	91.5649 %	94.9456 %	95.9180 %	88.4030 %	97.8529 %	96.4840 %
Concentration per Run 2	0.0000 ppm	92.0835 %	94.5459 %	95.7269 %	88.9927 %	97.9534 %	96.2878 %
Concentration per Run 3	0.0000 ppm	94.4131 %	94.6715 %	95.6395 %	92.7628 %	97.7175 %	96.2838 %
Recovery Percentage 1	0.140 %						
Concentration RSD	484.5 %	1.6 %	0.2 %	0.1 %	2.6 %	0.1 %	0.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCV
Analysis started at: 9/25/2024 12:20:07 AM
Comments <Comment>
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5179 ppm	0.5180 ppm	0.4858 ppm	0.4883 ppm	0.5044 ppm	0.5131 ppm	0.4857 ppm
Concentration per Run 1	0.5188 ppm	0.5320 ppm	0.4896 ppm	0.4931 ppm	0.5134 ppm	0.5231 ppm	0.5004 ppm
Concentration per Run 2	0.5177 ppm	0.5220 ppm	0.4840 ppm	0.4863 ppm	0.5014 ppm	0.5101 ppm	0.4758 ppm
Concentration per Run 3	0.5173 ppm	0.4999 ppm	0.4840 ppm	0.4855 ppm	0.4983 ppm	0.5063 ppm	0.4808 ppm
Recovery Percentage 1	103.582 %	103.592 %	97.170 %	97.656 %	100.872 %	102.628 %	97.133 %
Concentration RSD	0.1 %	3.2 %	0.7 %	0.9 %	1.6 %	1.7 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.5040 ppm	0.5144 ppm	0.5168 ppm	0.5017 ppm	0.4887 ppm	4.9948 ppm	0.5049 ppm
Concentration per Run 1	0.5084 ppm	0.5192 ppm	0.5163 ppm	0.5009 ppm	0.4957 ppm	5.0823 ppm	0.5151 ppm
Concentration per Run 2	0.5020 ppm	0.5121 ppm	0.5158 ppm	0.5011 ppm	0.4872 ppm	4.9588 ppm	0.4998 ppm
Concentration per Run 3	0.5017 ppm	0.5119 ppm	0.5183 ppm	0.5030 ppm	0.4832 ppm	4.9432 ppm	0.4996 ppm
Recovery Percentage 1	100.808 %	102.881 %	103.354 %	100.331 %	97.742 %	99.895 %	100.971 %
Concentration RSD	0.8 %	0.8 %	0.3 %	0.2 %	1.3 %	1.5 %	1.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5095 ppm	0.5145 ppm	0.5052 ppm	10.5298 ppm	0.5059 ppm	0.5036 ppm	0.5035 ppm
Concentration per Run 1	0.5093 ppm	0.5222 ppm	0.5056 ppm	10.7358 ppm	0.5103 ppm	0.5090 ppm	0.5067 ppm
Concentration per Run 2	0.5106 ppm	0.5122 ppm	0.5034 ppm	10.4580 ppm	0.5034 ppm	0.5017 ppm	0.5021 ppm
Concentration per Run 3	0.5087 ppm	0.5091 ppm	0.5066 ppm	10.3957 ppm	0.5042 ppm	0.5001 ppm	0.5018 ppm
Recovery Percentage 1	101.908 %	102.898 %	101.038 %	105.298 %	101.189 %	100.717 %	100.704 %
Concentration RSD	0.2 %	1.3 %	0.3 %	1.7 %	0.7 %	0.9 %	0.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4861 ppm	5.4606 ppm	0.4764 ppm	0.4654 ppm	0.5083 ppm	0.5089 ppm	0.4992 ppm
Concentration per Run 1	0.4917 ppm	5.5118 ppm	0.4803 ppm	0.4749 ppm	0.5075 ppm	0.5150 ppm	0.4992 ppm
Concentration per Run 2	0.4850 ppm	5.4397 ppm	0.4740 ppm	0.4609 ppm	0.5081 ppm	0.5067 ppm	0.4993 ppm
Concentration per Run 3	0.4815 ppm	5.4301 ppm	0.4750 ppm	0.4603 ppm	0.5092 ppm	0.5050 ppm	0.4990 ppm
Recovery Percentage 1	97.219 %	104.010 %	95.287 %	93.071 %	101.651 %	101.781 %	99.830 %
Concentration RSD	1.1 %	0.8 %	0.7 %	1.8 %	0.2 %	1.1 %	0.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5073 ppm	96.4783 %	93.9999 %	95.3447 %	99.5206 %	99.3460 %	98.3276 %
Concentration per Run 1	0.5117 ppm	94.6283 %	94.0852 %	94.8413 %	97.9488 %	98.7532 %	98.3631 %
Concentration per Run 2	0.5051 ppm	97.7281 %	94.0723 %	95.7831 %	100.3319 %	99.8183 %	98.4232 %
Concentration per Run 3	0.5050 ppm	97.0785 %	93.8422 %	95.4096 %	100.2812 %	99.4664 %	98.1964 %
Recovery Percentage 1	101.452 %						
Concentration RSD	0.8 %	1.7 %	0.1 %	0.5 %	1.4 %	0.5 %	0.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: CCB
Analysis started at: 9/25/2024 12:26:14 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0038 ppm	-0.0006 ppm	0.0018 ppm	0.0002 ppm	0.0001 ppm	0.0065 ppm
Concentration per Run 1	0.0005 ppm	0.0103 ppm	-0.0001 ppm	0.0017 ppm	0.0002 ppm	0.0001 ppm	0.0099 ppm
Concentration per Run 2	0.0001 ppm	0.0062 ppm	-0.0013 ppm	0.0020 ppm	0.0002 ppm	0.0000 ppm	0.0094 ppm
Concentration per Run 3	-0.0002 ppm	-0.0050 ppm	-0.0005 ppm	0.0016 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	1.845 %	3.834 %	-12.640 %	5.953 %	2.223 %	1.264 %	6.483 %
Concentration RSD	261.2 %	207.4 %	94.7 %	12.7 %	9.0 %	50.3 %	84.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0002 ppm	-0.0007 ppm	-0.0198 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	-0.0020 ppm	0.0202 ppm	0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0006 ppm	-0.0002 ppm	-0.0012 ppm	-0.0146 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm	0.0010 ppm	-0.0651 ppm	-0.0022 ppm
Recovery Percentage 1	-0.063 %	-0.006 %	-4.240 %	-1.539 %	-1.493 %	-0.792 %	6.306 %
Concentration RSD	446.2 %	2,334.9 %	43.7 %	54.9 %	210.4 %	216.4 %	430.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0022 ppm	0.0001 ppm	0.0029 ppm	-0.0053 ppm	-0.0005 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 1	0.0036 ppm	0.0002 ppm	0.0035 ppm	0.0042 ppm	-0.0002 ppm	-0.0003 ppm	0.0021 ppm
Concentration per Run 2	0.0008 ppm	0.0002 ppm	0.0029 ppm	-0.0092 ppm	-0.0008 ppm	-0.0006 ppm	0.0035 ppm
Concentration per Run 3	0.0022 ppm	-0.0003 ppm	0.0023 ppm	-0.0108 ppm	-0.0006 ppm	0.0009 ppm	0.0015 ppm
Recovery Percentage 1	2.200 %	0.663 %	5.878 %	-0.263 %	-2.047 %	-0.230 %	4.725 %
Concentration RSD	65.1 %	438.9 %	20.3 %	157.2 %	56.1 %	3,346.2 %	43.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0005 ppm	0.0027 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0021 ppm	0.0006 ppm	0.0004 ppm	0.0001 ppm	0.0016 ppm	0.0002 ppm
Concentration per Run 2	-0.0022 ppm	0.0043 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 3	0.0007 ppm	0.0016 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm
Recovery Percentage 1	-5.118 %	0.537 %	0.548 %	2.039 %	1.006 %	2.937 %	2.931 %
Concentration RSD	299.0 %	54.3 %	110.8 %	93.7 %	13.9 %	158.4 %	35.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	93.5833 %	94.1328 %	95.4863 %	89.7355 %	97.6403 %	95.9410 %
Concentration per Run 1	0.0000 ppm	93.3520 %	94.3489 %	95.1075 %	88.2478 %	96.9922 %	96.0857 %
Concentration per Run 2	0.0001 ppm	91.8033 %	94.1642 %	95.8192 %	88.4259 %	97.9166 %	95.9232 %
Concentration per Run 3	0.0000 ppm	95.5946 %	93.8851 %	95.5324 %	92.5326 %	98.0121 %	95.8141 %
Recovery Percentage 1	1.289 %						
Concentration RSD	93.2 %	2.0 %	0.2 %	0.4 %	2.7 %	0.6 %	0.1 %

ICP DataTrace 5

9/25/2024 12:07:10 PM

LabBook: WG1975466_09242024T5.imexp

Sample: LLOQ RL
Analysis started at: 9/25/2024 12:32:34 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0050 ppm	0.1165 ppm	0.0035 ppm	0.0323 ppm	0.0103 ppm	0.0053 ppm	0.0957 ppm
Concentration per Run 1	0.0053 ppm	0.1304 ppm	0.0038 ppm	0.0329 ppm	0.0104 ppm	0.0053 ppm	0.0950 ppm
Concentration per Run 2	0.0050 ppm	0.1064 ppm	0.0034 ppm	0.0315 ppm	0.0104 ppm	0.0053 ppm	0.1052 ppm
Concentration per Run 3	0.0048 ppm	0.1127 ppm	0.0032 ppm	0.0324 ppm	0.0102 ppm	0.0053 ppm	0.0868 ppm
Recovery Percentage 1	100.816 %	116.482 %	69.342 %	107.611 %	103.146 %	106.295 %	95.673 %
Concentration RSD	4.4 %	10.7 %	8.1 %	2.4 %	1.2 %	0.2 %	9.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0041 ppm	0.0208 ppm	0.0096 ppm	0.0103 ppm	0.0536 ppm	2.4812 ppm	0.0083 ppm
Concentration per Run 1	0.0041 ppm	0.0209 ppm	0.0090 ppm	0.0101 ppm	0.0569 ppm	2.4839 ppm	0.0071 ppm
Concentration per Run 2	0.0041 ppm	0.0206 ppm	0.0098 ppm	0.0105 ppm	0.0526 ppm	2.4944 ppm	0.0095 ppm
Concentration per Run 3	0.0041 ppm	0.0210 ppm	0.0098 ppm	0.0102 ppm	0.0512 ppm	2.4653 ppm	0.0084 ppm
Recovery Percentage 1	103.254 %	104.075 %	95.538 %	102.910 %	107.120 %	99.248 %	83.251 %
Concentration RSD	0.3 %	0.9 %	4.9 %	2.3 %	5.5 %	0.6 %	14.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1060 ppm	0.0111 ppm	0.0532 ppm	2.1882 ppm	0.0200 ppm	0.0105 ppm	0.0514 ppm
Concentration per Run 1	0.1060 ppm	0.0114 ppm	0.0535 ppm	2.2160 ppm	0.0200 ppm	0.0100 ppm	0.0514 ppm
Concentration per Run 2	0.1062 ppm	0.0112 ppm	0.0530 ppm	2.1904 ppm	0.0199 ppm	0.0117 ppm	0.0520 ppm
Concentration per Run 3	0.1058 ppm	0.0107 ppm	0.0531 ppm	2.1583 ppm	0.0200 ppm	0.0099 ppm	0.0509 ppm
Recovery Percentage 1	105.979 %	111.401 %	106.373 %	109.411 %	99.774 %	105.060 %	102.879 %
Concentration RSD	0.2 %	3.3 %	0.4 %	1.3 %	0.4 %	9.8 %	1.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0102 ppm	0.5351 ppm	0.0491 ppm	0.0092 ppm	0.0515 ppm	0.0223 ppm	0.0105 ppm
Concentration per Run 1	0.0085 ppm	0.5391 ppm	0.0494 ppm	0.0092 ppm	0.0512 ppm	0.0223 ppm	0.0107 ppm
Concentration per Run 2	0.0106 ppm	0.5327 ppm	0.0493 ppm	0.0092 ppm	0.0518 ppm	0.0216 ppm	0.0100 ppm
Concentration per Run 3	0.0117 ppm	0.5335 ppm	0.0486 ppm	0.0093 ppm	0.0515 ppm	0.0232 ppm	0.0108 ppm
Recovery Percentage 1	102.497 %	107.017 %	98.236 %	92.418 %	102.983 %	111.748 %	104.930 %
Concentration RSD	15.7 %	0.6 %	0.9 %	0.2 %	0.5 %	3.7 %	3.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0053 ppm	97.4557 %	95.1067 %	96.3464 %	96.2484 %	99.7927 %	98.6598 %
Concentration per Run 1	0.0054 ppm	96.2297 %	95.4832 %	95.9254 %	94.4393 %	99.2656 %	98.8095 %
Concentration per Run 2	0.0053 ppm	97.9850 %	95.0092 %	96.7402 %	96.5334 %	100.0102 %	98.6049 %
Concentration per Run 3	0.0053 ppm	98.1524 %	94.8277 %	96.3735 %	97.7726 %	100.1023 %	98.5649 %
Recovery Percentage 1	106.022 %						
Concentration RSD	1.1 %	1.1 %	0.4 %	0.4 %	1.8 %	0.5 %	0.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: Blank DMC Trace9
Analysis started at: 9/24/2024 6:10:19 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	0.5 %	-3.6 %	-0.3 %	0.1 %	-1.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.2 %	0.2 %	-3.4 %	0.0 %	0.8 %	-0.3 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	5.3 %	-0.4 %	3.2 %	-0.2 %	0.4 %	-11.6 %	-2.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-6.2 %	0.0 %	0.2 %	-0.5 %	-0.1 %	7.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: ICAL
Analysis started at: 9/24/2024 6:14:03 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9970 ppm	25.0661 ppm	0.9968 ppm	1.0063 ppm	1.0037 ppm	1.0015 ppm	10.0365 ppm
Concentration per Run 2	1.0011 ppm	24.8750 ppm	0.9969 ppm	0.9929 ppm	0.9905 ppm	0.9961 ppm	9.9578 ppm
Concentration per Run 3	1.0019 ppm	25.0590 ppm	1.0063 ppm	1.0008 ppm	1.0058 ppm	1.0024 ppm	10.0057 ppm
Concentration RSD	0.3 %	0.4 %	0.5 %	0.7 %	0.8 %	0.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9911 ppm	0.9984 ppm	1.0031 ppm	1.0081 ppm	25.1468 ppm	35.0141 ppm	1.0065 ppm
Concentration per Run 2	1.0025 ppm	1.0000 ppm	0.9978 ppm	0.9957 ppm	24.6940 ppm	34.9336 ppm	0.9986 ppm
Concentration per Run 3	1.0065 ppm	1.0016 ppm	0.9990 ppm	0.9962 ppm	25.1592 ppm	35.0523 ppm	0.9949 ppm
Concentration RSD	0.8 %	0.2 %	0.3 %	0.7 %	1.1 %	0.2 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0093 ppm	1.0028 ppm	0.9942 ppm	25.1250 ppm	1.0069 ppm	0.9968 ppm	0.9971 ppm
Concentration per Run 2	9.9755 ppm	0.9945 ppm	0.9982 ppm	24.8074 ppm	0.9940 ppm	1.0005 ppm	0.9971 ppm
Concentration per Run 3	10.0152 ppm	1.0027 ppm	1.0076 ppm	25.0676 ppm	0.9992 ppm	1.0026 ppm	1.0058 ppm
Concentration RSD	0.2 %	0.5 %	0.7 %	0.7 %	0.6 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9934 ppm	9.9965 ppm	1.0007 ppm	1.0031 ppm	1.0032 ppm	0.9974 ppm	1.0015 ppm
Concentration per Run 2	0.9979 ppm	9.9524 ppm	0.9968 ppm	0.9975 ppm	0.9934 ppm	0.9984 ppm	0.9980 ppm
Concentration per Run 3	1.0087 ppm	10.0511 ppm	1.0025 ppm	0.9994 ppm	1.0034 ppm	1.0043 ppm	1.0005 ppm
Concentration RSD	0.8 %	0.5 %	0.3 %	0.3 %	0.6 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	102.3684 %	103.4753 %	98.2735 %	99.4501 %	102.2060 %	99.5891 %
Concentration per Run 1	1.0042 ppm	102.4493 %	102.7561 %	98.7243 %	99.8949 %	101.6069 %	100.1680 %
Concentration per Run 2	0.9953 ppm	102.4607 %	104.3021 %	97.2020 %	99.3510 %	102.7344 %	98.5476 %
Concentration per Run 3	1.0004 ppm	102.1952 %	103.3678 %	98.8942 %	99.1044 %	102.2767 %	100.0518 %
Concentration RSD	0.4 %	0.1 %	0.8 %	0.9 %	0.4 %	0.6 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: ICV
Analysis started at: 9/24/2024 6:17:55 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5177 ppm	0.4869 ppm	0.4890 ppm	0.5029 ppm	0.5049 ppm	0.5148 ppm	0.5001 ppm
Concentration per Run 1	0.5133 ppm	0.4774 ppm	0.4931 ppm	0.4986 ppm	0.5067 ppm	0.5155 ppm	0.5000 ppm
Concentration per Run 2	0.5213 ppm	0.4804 ppm	0.4868 ppm	0.5077 ppm	0.5045 ppm	0.5126 ppm	0.4998 ppm
Concentration per Run 3	0.5185 ppm	0.5030 ppm	0.4872 ppm	0.5024 ppm	0.5035 ppm	0.5163 ppm	0.5005 ppm
Recovery Percentage 1	103.537 %	97.383 %	97.800 %	100.586 %	100.979 %	102.959 %	100.012 %
Concentration RSD	0.8 %	2.9 %	0.7 %	0.9 %	0.3 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5099 ppm	0.5182 ppm	0.4972 ppm	0.4991 ppm	0.5133 ppm	5.2314 ppm	0.5005 ppm
Concentration per Run 1	0.5143 ppm	0.5188 ppm	0.4927 ppm	0.4951 ppm	0.5113 ppm	5.2526 ppm	0.4985 ppm
Concentration per Run 2	0.5123 ppm	0.5216 ppm	0.5007 ppm	0.5036 ppm	0.5094 ppm	5.2177 ppm	0.4984 ppm
Concentration per Run 3	0.5032 ppm	0.5141 ppm	0.4981 ppm	0.4986 ppm	0.5192 ppm	5.2239 ppm	0.5046 ppm
Recovery Percentage 1	101.986 %	103.631 %	99.435 %	99.826 %	102.658 %	104.628 %	100.099 %
Concentration RSD	1.2 %	0.7 %	0.8 %	0.9 %	1.0 %	0.4 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5000 ppm	0.4971 ppm	0.5017 ppm	10.1188 ppm	0.5148 ppm	0.5083 ppm	0.5154 ppm
Concentration per Run 1	0.5004 ppm	0.4974 ppm	0.4972 ppm	10.1287 ppm	0.5133 ppm	0.5099 ppm	0.5075 ppm
Concentration per Run 2	0.5011 ppm	0.4962 ppm	0.5037 ppm	10.1098 ppm	0.5169 ppm	0.5063 ppm	0.5222 ppm
Concentration per Run 3	0.4985 ppm	0.4978 ppm	0.5041 ppm	10.1179 ppm	0.5140 ppm	0.5085 ppm	0.5164 ppm
Recovery Percentage 1	100.002 %	99.421 %	100.331 %	101.188 %	102.952 %	101.654 %	103.073 %
Concentration RSD	0.3 %	0.2 %	0.8 %	0.1 %	0.4 %	0.4 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.5043 ppm	5.4417 ppm	0.4905 ppm	0.4809 ppm	0.5079 ppm	0.5081 ppm	0.4953 ppm
Concentration per Run 1	0.5085 ppm	5.4141 ppm	0.4863 ppm	0.4810 ppm	0.5049 ppm	0.5106 ppm	0.4935 ppm
Concentration per Run 2	0.5014 ppm	5.4710 ppm	0.4958 ppm	0.4807 ppm	0.5107 ppm	0.5044 ppm	0.4970 ppm
Concentration per Run 3	0.5030 ppm	5.4398 ppm	0.4893 ppm	0.4809 ppm	0.5083 ppm	0.5093 ppm	0.4955 ppm
Recovery Percentage 1	100.857 %	103.651 %	98.093 %	96.174 %	101.588 %	101.620 %	99.067 %
Concentration RSD	0.7 %	0.5 %	1.0 %	0.0 %	0.6 %	0.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5149 ppm	103.2501 %	102.4482 %	101.5068 %	100.6881 %	101.4044 %	101.7279 %
Concentration per Run 1	0.5119 ppm	103.6077 %	102.8511 %	101.5251 %	100.9325 %	101.6828 %	101.9884 %
Concentration per Run 2	0.5178 ppm	102.3899 %	102.2266 %	101.6488 %	100.0159 %	101.5312 %	101.8381 %
Concentration per Run 3	0.5150 ppm	103.7527 %	102.2669 %	101.3466 %	101.1160 %	100.9992 %	101.3572 %
Recovery Percentage 1	102.983 %						
Concentration RSD	0.6 %	0.7 %	0.3 %	0.1 %	0.6 %	0.4 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: ICB
Analysis started at: 9/24/2024 6:21:49 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0004 ppm	0.0012 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.0005 ppm	-0.0035 ppm	0.0004 ppm	0.0021 ppm	-0.0002 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 2	0.0008 ppm	-0.0099 ppm	0.0016 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.0002 ppm	0.0146 ppm	0.0014 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0040 ppm
Recovery Percentage 1	7.193 %	0.386 %	23.107 %	3.185 %	-0.373 %	-0.743 %	-0.607 %
Concentration RSD	65.0 %	3,298.6 %	57.5 %	110.9 %	332.3 %	112.4 %	540.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0005 ppm	-0.0002 ppm	-0.0005 ppm	0.0033 ppm	-0.0097 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0003 ppm	-0.0003 ppm	0.0018 ppm	-0.0010 ppm	0.0009 ppm
Concentration per Run 2	0.0002 ppm	-0.0007 ppm	-0.0003 ppm	-0.0009 ppm	0.0032 ppm	-0.0027 ppm	0.0008 ppm
Concentration per Run 3	0.0001 ppm	-0.0009 ppm	0.0000 ppm	-0.0005 ppm	0.0048 ppm	-0.0254 ppm	0.0005 ppm
Recovery Percentage 1	2.092 %	-2.252 %	-2.141 %	-5.434 %	6.517 %	-0.388 %	14.635 %
Concentration RSD	104.4 %	132.0 %	80.1 %	58.0 %	45.4 %	140.9 %	32.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0012 ppm	-0.0001 ppm	0.0011 ppm	-0.0050 ppm	0.0006 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.0004 ppm	-0.0002 ppm	0.0009 ppm	-0.0037 ppm	0.0010 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 2	0.0022 ppm	0.0000 ppm	0.0012 ppm	-0.0050 ppm	0.0002 ppm	-0.0001 ppm	-0.0038 ppm
Concentration per Run 3	0.0011 ppm	-0.0002 ppm	0.0013 ppm	-0.0063 ppm	0.0004 ppm	0.0003 ppm	0.0043 ppm
Recovery Percentage 1	1.227 %	-1.203 %	2.233 %	-0.251 %	2.202 %	0.611 %	0.907 %
Concentration RSD	71.4 %	98.5 %	17.8 %	26.1 %	74.3 %	341.7 %	897.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0010 ppm	-0.0012 ppm	0.0001 ppm	0.0007 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0029 ppm	-0.0014 ppm	-0.0018 ppm	0.0001 ppm	0.0007 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 2	-0.0018 ppm	0.0007 ppm	-0.0009 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run 3	0.0002 ppm	-0.0023 ppm	-0.0011 ppm	0.0002 ppm	0.0008 ppm	-0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	4.520 %	-0.205 %	-2.499 %	1.395 %	6.800 %	-1.060 %	-1.192 %
Concentration RSD	524.2 %	151.4 %	36.3 %	46.9 %	29.9 %	272.0 %	96.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0012 ppm	101.9667 %	100.5794 %	100.9570 %	101.4477 %	100.4951 %	101.8968 %
Concentration per Run 1	-0.0011 ppm	102.1774 %	101.0422 %	100.4260 %	101.8983 %	101.1425 %	101.2043 %
Concentration per Run 2	-0.0015 ppm	101.0263 %	100.3627 %	101.4069 %	100.3464 %	100.1157 %	102.3913 %
Concentration per Run 3	-0.0012 ppm	102.6964 %	100.3333 %	101.0383 %	102.0985 %	100.2271 %	102.0947 %
Recovery Percentage 1	-24.668 %						
Concentration RSD	16.5 %	0.8 %	0.4 %	0.5 %	0.9 %	0.6 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: LLOQ
Analysis started at: 9/24/2024 6:30:07 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	0.1059 ppm	0.0065 ppm	0.0322 ppm	0.0100 ppm	0.0051 ppm	0.1025 ppm
Concentration per Run 1	0.0056 ppm	0.1121 ppm	0.0073 ppm	0.0316 ppm	0.0102 ppm	0.0050 ppm	0.1053 ppm
Concentration per Run 2	0.0054 ppm	0.1074 ppm	0.0054 ppm	0.0342 ppm	0.0099 ppm	0.0051 ppm	0.1006 ppm
Concentration per Run 3	0.0054 ppm	0.0981 ppm	0.0068 ppm	0.0306 ppm	0.0099 ppm	0.0051 ppm	0.1017 ppm
Recovery Percentage 1	109.443 %	105.872 %	129.735 %	107.214 %	99.768 %	101.092 %	102.516 %
Concentration RSD	2.2 %	6.7 %	15.3 %	5.8 %	1.7 %	1.3 %	2.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0041 ppm	0.0202 ppm	0.0095 ppm	0.0102 ppm	0.0518 ppm	2.6359 ppm	0.0103 ppm
Concentration per Run 1	0.0039 ppm	0.0198 ppm	0.0093 ppm	0.0098 ppm	0.0516 ppm	2.6312 ppm	0.0097 ppm
Concentration per Run 2	0.0040 ppm	0.0208 ppm	0.0098 ppm	0.0105 ppm	0.0518 ppm	2.6314 ppm	0.0094 ppm
Concentration per Run 3	0.0043 ppm	0.0200 ppm	0.0094 ppm	0.0104 ppm	0.0521 ppm	2.6450 ppm	0.0118 ppm
Recovery Percentage 1	102.090 %	101.050 %	94.816 %	102.189 %	103.649 %	105.434 %	102.948 %
Concentration RSD	4.4 %	2.5 %	2.9 %	3.8 %	0.4 %	0.3 %	12.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1011 ppm	0.0105 ppm	0.0517 ppm	2.0438 ppm	0.0202 ppm	0.0096 ppm	0.0506 ppm
Concentration per Run 1	0.1005 ppm	0.0106 ppm	0.0505 ppm	2.0462 ppm	0.0209 ppm	0.0100 ppm	0.0495 ppm
Concentration per Run 2	0.0996 ppm	0.0103 ppm	0.0526 ppm	2.0419 ppm	0.0203 ppm	0.0087 ppm	0.0519 ppm
Concentration per Run 3	0.1032 ppm	0.0106 ppm	0.0519 ppm	2.0433 ppm	0.0195 ppm	0.0100 ppm	0.0503 ppm
Recovery Percentage 1	101.057 %	105.173 %	103.327 %	102.191 %	101.144 %	95.701 %	101.151 %
Concentration RSD	1.9 %	1.5 %	2.1 %	0.1 %	3.4 %	7.6 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0101 ppm	0.5187 ppm	0.0499 ppm	0.0100 ppm	0.0515 ppm	0.0207 ppm	0.0098 ppm
Concentration per Run 1	0.0083 ppm	0.5173 ppm	0.0484 ppm	0.0101 ppm	0.0517 ppm	0.0204 ppm	0.0101 ppm
Concentration per Run 2	0.0119 ppm	0.5213 ppm	0.0513 ppm	0.0100 ppm	0.0513 ppm	0.0206 ppm	0.0096 ppm
Concentration per Run 3	0.0103 ppm	0.5174 ppm	0.0502 ppm	0.0100 ppm	0.0513 ppm	0.0212 ppm	0.0099 ppm
Recovery Percentage 1	101.343 %	103.732 %	99.898 %	100.399 %	102.908 %	103.594 %	98.450 %
Concentration RSD	17.6 %	0.4 %	2.9 %	0.9 %	0.5 %	2.0 %	2.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0046 ppm	104.4629 %	102.7048 %	102.2250 %	102.1010 %	101.6849 %	102.1586 %
Concentration per Run 1	0.0045 ppm	104.6240 %	102.4737 %	102.1813 %	102.2111 %	101.8054 %	102.1382 %
Concentration per Run 2	0.0046 ppm	104.1331 %	102.7289 %	102.4791 %	101.6533 %	101.6621 %	101.7589 %
Concentration per Run 3	0.0048 ppm	104.6317 %	102.9119 %	102.0145 %	102.4386 %	101.5873 %	102.5787 %
Recovery Percentage 1	92.498 %						
Concentration RSD	4.3 %	0.3 %	0.2 %	0.2 %	0.4 %	0.1 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: ICSA
Analysis started at: 9/24/2024 6:34:08 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	479.5879 ppm	-0.0029 ppm	-0.0053 ppm	0.0014 ppm	0.0001 ppm	524.8546 ppm
Concentration per Run 1	0.0029 ppm	481.3343 ppm	-0.0040 ppm	-0.0070 ppm	0.0012 ppm	0.0000 ppm	526.2111 ppm
Concentration per Run 2	0.0026 ppm	477.7057 ppm	0.0022 ppm	-0.0024 ppm	0.0015 ppm	0.0001 ppm	523.2974 ppm
Concentration per Run 3	0.0019 ppm	479.7237 ppm	-0.0070 ppm	-0.0066 ppm	0.0013 ppm	0.0001 ppm	525.0551 ppm
Recovery Percentage 1	35.565 %		-58.173 %	-17.750 %	13.623 %	1.481 %	
Concentration RSD	21.5 %	0.4 %	161.8 %	47.8 %	10.1 %	19.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	-0.0007 ppm	-0.0007 ppm	0.0002 ppm	174.1568 ppm	-0.0137 ppm	0.0015 ppm
Concentration per Run 1	-0.0006 ppm	-0.0007 ppm	-0.0008 ppm	0.0002 ppm	173.8052 ppm	-0.0051 ppm	0.0042 ppm
Concentration per Run 2	-0.0004 ppm	-0.0006 ppm	-0.0001 ppm	0.0002 ppm	174.4253 ppm	-0.0070 ppm	0.0001 ppm
Concentration per Run 3	-0.0008 ppm	-0.0008 ppm	-0.0013 ppm	0.0002 ppm	174.2398 ppm	-0.0290 ppm	0.0003 ppm
Recovery Percentage 1	-11.597 %	-3.357 %	-7.158 %	1.883 %		-0.549 %	30.272 %
Concentration RSD	34.3 %	14.5 %	87.0 %	14.4 %	0.2 %	97.0 %	152.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	461.4660 ppm	-0.0005 ppm	-0.0013 ppm	0.0127 ppm	-0.0003 ppm	-0.0039 ppm	-0.0108 ppm
Concentration per Run 1	460.3319 ppm	-0.0007 ppm	-0.0015 ppm	0.0120 ppm	0.0000 ppm	-0.0074 ppm	-0.0116 ppm
Concentration per Run 2	462.2340 ppm	-0.0002 ppm	-0.0013 ppm	0.0149 ppm	0.0005 ppm	-0.0054 ppm	-0.0117 ppm
Concentration per Run 3	461.8322 ppm	-0.0004 ppm	-0.0010 ppm	0.0113 ppm	-0.0015 ppm	0.0011 ppm	-0.0092 ppm
Recovery Percentage 1		-4.545 %	-2.501 %	0.636 %	-1.374 %	-39.045 %	-21.678 %
Concentration RSD	0.2 %	56.4 %	16.9 %	14.8 %	303.2 %	113.9 %	13.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0053 ppm	0.0063 ppm	-0.0012 ppm	-0.0005 ppm	0.0011 ppm	0.0017 ppm	0.0009 ppm
Concentration per Run 1	-0.0149 ppm	0.0026 ppm	-0.0005 ppm	-0.0006 ppm	0.0008 ppm	0.0019 ppm	0.0008 ppm
Concentration per Run 2	-0.0033 ppm	0.0103 ppm	-0.0021 ppm	-0.0004 ppm	0.0010 ppm	0.0035 ppm	0.0009 ppm
Concentration per Run 3	0.0021 ppm	0.0059 ppm	-0.0009 ppm	-0.0004 ppm	0.0014 ppm	-0.0003 ppm	0.0010 ppm
Recovery Percentage 1	-53.460 %	1.256 %	-2.339 %	-4.679 %	10.587 %	8.432 %	9.067 %
Concentration RSD	162.6 %	61.4 %	72.3 %	22.0 %	26.3 %	113.4 %	10.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	92.3579 %	101.2513 %	80.7251 %	89.5085 %	101.4512 %	91.6418 %
Concentration per Run 1	-0.0010 ppm	91.7855 %	101.4283 %	80.2840 %	89.0199 %	101.7961 %	91.2777 %
Concentration per Run 2	-0.0004 ppm	92.9115 %	100.9242 %	81.0372 %	90.0392 %	101.0190 %	91.9275 %
Concentration per Run 3	-0.0010 ppm	92.3768 %	101.4012 %	80.8540 %	89.4664 %	101.5385 %	91.7202 %
Recovery Percentage 1	-16.404 %						
Concentration RSD	40.8 %	0.6 %	0.3 %	0.5 %	0.6 %	0.4 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: SIC Multi
Analysis started at: 9/24/2024 6:38:03 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0408 ppm	-0.0033 ppm	0.0105 ppm	0.0002 ppm	0.0002 ppm	0.0261 ppm
Concentration per Run 1	0.0003 ppm	0.0385 ppm	-0.0046 ppm	0.0112 ppm	0.0003 ppm	0.0000 ppm	0.0245 ppm
Concentration per Run 2	0.0003 ppm	0.0376 ppm	-0.0023 ppm	0.0101 ppm	0.0001 ppm	0.0005 ppm	0.0251 ppm
Concentration per Run 3	-0.0001 ppm	0.0463 ppm	-0.0030 ppm	0.0102 ppm	0.0001 ppm	0.0003 ppm	0.0288 ppm
Recovery Percentage 1	2.151 %	40.797 %	-66.343 %	34.993 %	1.841 %	6.047 %	26.130 %
Concentration RSD	164.4 %	11.8 %	36.7 %	5.8 %	53.5 %	114.0 %	8.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0055 ppm	**19.7978 ppm**	-0.0026 ppm	0.0150 ppm	-0.0072 ppm	0.0007 ppm
Concentration per Run 1	-0.0002 ppm	-0.0059 ppm	19.8016 ppm	-0.0024 ppm	0.0158 ppm	-0.0037 ppm	-0.0010 ppm
Concentration per Run 2	-0.0002 ppm	-0.0058 ppm	19.8165 ppm	-0.0024 ppm	0.0146 ppm	-0.0051 ppm	0.0014 ppm
Concentration per Run 3	-0.0003 ppm	-0.0048 ppm	19.7754 ppm	-0.0032 ppm	0.0148 ppm	-0.0129 ppm	0.0018 ppm
Recovery Percentage 1	-5.106 %	-27.529 %	197,977.960 %	-26.316 %	30.087 %	-0.290 %	14.766 %
Concentration RSD	17.4 %	10.4 %	**0.1 %**	17.3 %	4.3 %	68.7 %	202.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0189 ppm	**19.9377 ppm**	-0.0018 ppm	0.0055 ppm	0.0002 ppm	-0.0004 ppm	-0.0132 ppm
Concentration per Run 1	0.0239 ppm	19.9117 ppm	-0.0015 ppm	0.0140 ppm	-0.0007 ppm	-0.0019 ppm	-0.0102 ppm
Concentration per Run 2	0.0170 ppm	19.8544 ppm	-0.0019 ppm	0.0002 ppm	0.0004 ppm	0.0011 ppm	-0.0152 ppm
Concentration per Run 3	0.0158 ppm	20.0469 ppm	-0.0019 ppm	0.0023 ppm	0.0008 ppm	-0.0005 ppm	-0.0143 ppm
Recovery Percentage 1	18.898 %	199,376.901 %	-3.519 %	0.275 %	0.750 %	-4.451 %	-26.479 %
Concentration RSD	23.4 %	**0.5 %**	14.3 %	135.2 %	416.2 %	343.4 %	20.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	0.2209 ppm	0.0035 ppm	0.0002 ppm	**19.5785 ppm**	**0.0090 ppm**	**9.8332 ppm**
Concentration per Run 1	0.0033 ppm	0.1803 ppm	0.0028 ppm	0.0000 ppm	19.6112 ppm	0.0096 ppm	9.8274 ppm
Concentration per Run 2	0.0028 ppm	0.2307 ppm	0.0035 ppm	0.0002 ppm	19.5860 ppm	0.0044 ppm	9.8482 ppm
Concentration per Run 3	0.0004 ppm	0.2518 ppm	0.0041 ppm	0.0003 ppm	19.5384 ppm	0.0131 ppm	9.8239 ppm
Recovery Percentage 1	21.724 %	44.187 %	6.946 %	1.646 %	195,785.412 %	45.083 %	98,331.703 %
Concentration RSD	70.1 %	16.6 %	19.3 %	85.9 %	**0.2 %**	**48.6 %**	**0.1 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0025 ppm	105.7888 %	103.8272 %	115.3468 %	103.2394 %	102.3751 %	104.3837 %
Concentration per Run 1	-0.0025 ppm	105.6387 %	104.3810 %	115.2056 %	102.9930 %	103.4688 %	104.3810 %
Concentration per Run 2	-0.0024 ppm	104.9409 %	103.3632 %	115.4504 %	102.4882 %	101.5012 %	104.5417 %
Concentration per Run 3	-0.0026 ppm	106.7867 %	103.7373 %	115.3843 %	104.2369 %	102.1554 %	104.2284 %
Recovery Percentage 1	-50.367 %						
Concentration RSD	3.5 %	0.9 %	0.5 %	0.1 %	0.9 %	1.0 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR Check
Analysis started at: 9/24/2024 6:41:59 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0029 ppm	0.0100 ppm	22.0417 ppm	23.3425 [SIC 20]	18.6511 ppm	4.7576 ppm	0.0500 ppm
Concentration per Run 1	0.0027 ppm	0.0250 ppm	22.0161 ppm	23.1189 ppm	18.6520 ppm	4.7516 ppm	0.0480 ppm
Concentration per Run 2	0.0026 ppm	0.0111 ppm	22.0885 ppm	23.5422 ppm	18.6655 ppm	4.7618 ppm	0.0524 ppm
Concentration per Run 3	0.0034 ppm	-0.0060 ppm	22.0205 ppm	23.3664 ppm	18.6358 ppm	4.7594 ppm	0.0495 ppm
Recovery Percentage 1			110.209 %	116.712 %	93.256 %		
Concentration RSD	15.9 %	154.5 %	0.2 %	0.9 %	0.1 %	0.1 %	4.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.7992 ppm	4.8635 ppm	0.0001 ppm	18.2804 ppm	0.0105 ppm	497.7529 ppm	17.9973 ppm
Concentration per Run 1	4.7722 ppm	4.8404 ppm	0.0005 ppm	18.2219 ppm	0.0120 ppm	495.5253 ppm	17.9516 ppm
Concentration per Run 2	4.8122 ppm	4.8716 ppm	0.0003 ppm	18.2900 ppm	0.0082 ppm	500.0399 ppm	17.9922 ppm
Concentration per Run 3	4.8132 ppm	4.8787 ppm	-0.0005 ppm	18.3293 ppm	0.0114 ppm	497.6934 ppm	18.0482 ppm
Recovery Percentage 1	95.984 %	97.271 %		91.402 %		99.551 %	89.987 %
Concentration RSD	0.5 %	0.4 %	498.3 %	0.3 %	19.3 %	0.5 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	0.0004 ppm	4.9889 ppm	454.0960 ppm	9.4100 ppm	49.4684 ppm	4.8467 ppm
Concentration per Run 1	0.0034 ppm	0.0004 ppm	4.9151 ppm	453.2242 ppm	9.3085 ppm	49.4506 ppm	4.8276 ppm
Concentration per Run 2	0.0023 ppm	0.0002 ppm	5.0113 ppm	454.8090 ppm	9.5084 ppm	49.5817 ppm	4.8486 ppm
Concentration per Run 3	-0.0017 ppm	0.0004 ppm	5.0402 ppm	454.2549 ppm	9.4131 ppm	49.3729 ppm	4.8638 ppm
Recovery Percentage 1		0.000 %	99.777 %	90.819 %	94.100 %	98.937 %	96.933 %
Concentration RSD	200.0 %	28.9 %	1.3 %	0.2 %	1.1 %	0.2 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.0176 [SIC 20]	20.1555 [SIC 50]	9.5409 ppm	4.6043 ppm	0.0134 ppm	4.6134 ppm	0.0018 ppm
Concentration per Run 1	5.0147 ppm	19.9074 ppm	9.5492 ppm	4.5955 ppm	0.0150 ppm	4.6115 ppm	0.0028 ppm
Concentration per Run 2	5.0299 ppm	20.3919 ppm	9.5458 ppm	4.6142 ppm	0.0135 ppm	4.6219 ppm	0.0013 ppm
Concentration per Run 3	5.0083 ppm	20.1672 ppm	9.5277 ppm	4.6033 ppm	0.0116 ppm	4.6067 ppm	0.0013 ppm
Recovery Percentage 1	100.353 %	100.778 %	95.409 %	92.086 %	0.000 %	92.267 %	0.000 %
Concentration RSD	0.2 %	1.2 %	0.1 %	0.2 %	12.6 %	0.2 %	48.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	19.4777 ppm	94.7329 %	101.6534 %	85.8291 %	91.6261 %	100.5045 %	89.8589 %
Concentration per Run 1	19.4393 ppm	94.5773 %	102.6381 %	86.2867 %	91.5536 %	101.2922 %	90.3211 %
Concentration per Run 2	19.5632 ppm	95.3171 %	101.2196 %	85.3939 %	92.0828 %	100.2001 %	89.4330 %
Concentration per Run 3	19.4305 ppm	94.3044 %	101.1026 %	85.8066 %	91.2419 %	100.0213 %	89.8227 %
Recovery Percentage 1	97.388 %						
Concentration RSD	0.4 %	0.6 %	0.8 %	0.5 %	0.5 %	0.7 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: xLLOQ 0.005ppm
Analysis started at: 9/24/2024 7:09:07 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0059 ppm	0.0144 ppm	0.0047 ppm	0.0058 ppm	0.0049 ppm	0.0051 ppm	0.0120 ppm
Concentration per Run 1	0.0055 ppm	0.0062 ppm	0.0059 ppm	0.0061 ppm	0.0050 ppm	0.0051 ppm	0.0094 ppm
Concentration per Run 2	0.0065 ppm	0.0228 ppm	0.0057 ppm	0.0053 ppm	0.0048 ppm	0.0051 ppm	0.0129 ppm
Concentration per Run 3	0.0059 ppm	0.0141 ppm	0.0026 ppm	0.0060 ppm	0.0049 ppm	0.0051 ppm	0.0138 ppm
Recovery Percentage 1	118.935 %	0.000 %	94.923 %	0.000 %	0.000 %	102.247 %	0.000 %
Concentration RSD	8.6 %	57.9 %	38.8 %	6.9 %	2.0 %	0.2 %	19.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0054 ppm	0.0048 ppm	0.0052 ppm	0.0050 ppm	0.0091 ppm	0.0400 ppm	0.0068 ppm
Concentration per Run 1	0.0052 ppm	0.0042 ppm	0.0050 ppm	0.0050 ppm	0.0102 ppm	0.0643 ppm	0.0078 ppm
Concentration per Run 2	0.0056 ppm	0.0042 ppm	0.0053 ppm	0.0050 ppm	0.0094 ppm	0.0242 ppm	0.0067 ppm
Concentration per Run 3	0.0053 ppm	0.0059 ppm	0.0052 ppm	0.0049 ppm	0.0076 ppm	0.0313 ppm	0.0059 ppm
Recovery Percentage 1	107.520 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	4.0 %	19.6 %	3.2 %	0.3 %	15.0 %	53.6 %	14.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0060 ppm	0.0050 ppm	0.0049 ppm	0.1076 ppm	0.0056 ppm	0.0048 ppm	0.0067 ppm
Concentration per Run 1	0.0070 ppm	0.0049 ppm	0.0048 ppm	0.1086 ppm	0.0056 ppm	0.0041 ppm	0.0048 ppm
Concentration per Run 2	0.0052 ppm	0.0050 ppm	0.0052 ppm	0.1109 ppm	0.0051 ppm	0.0052 ppm	0.0086 ppm
Concentration per Run 3	0.0058 ppm	0.0051 ppm	0.0047 ppm	0.1033 ppm	0.0061 ppm	0.0052 ppm	0.0066 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	15.4 %	1.6 %	4.7 %	3.6 %	8.7 %	13.1 %	28.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0028 ppm	0.0545 ppm	0.0038 ppm	0.0051 ppm	0.0054 ppm	0.0053 ppm	0.0046 ppm
Concentration per Run 1	0.0007 ppm	0.0513 ppm	0.0046 ppm	0.0050 ppm	0.0055 ppm	0.0053 ppm	0.0043 ppm
Concentration per Run 2	0.0013 ppm	0.0543 ppm	0.0037 ppm	0.0051 ppm	0.0056 ppm	0.0045 ppm	0.0048 ppm
Concentration per Run 3	0.0063 ppm	0.0578 ppm	0.0032 ppm	0.0050 ppm	0.0050 ppm	0.0062 ppm	0.0048 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	112.2 %	6.0 %	17.7 %	1.3 %	5.9 %	16.3 %	7.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0047 ppm	102.3510 %	101.4307 %	102.6079 %	101.5044 %	101.6372 %	103.5815 %
Concentration per Run 1	0.0046 ppm	106.1590 %	101.7654 %	103.3049 %	105.0295 %	101.9186 %	104.5204 %
Concentration per Run 2	0.0046 ppm	98.9864 %	99.9307 %	102.2007 %	98.2402 %	100.4821 %	102.8268 %
Concentration per Run 3	0.0048 ppm	101.9077 %	102.5960 %	102.3181 %	101.2436 %	102.5107 %	103.3973 %
Recovery Percentage 1	93.008 %						
Concentration RSD	3.2 %	3.5 %	1.3 %	0.6 %	3.4 %	1.0 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: LLOQ 0.01ppm As soil TCLP
Analysis started at: 9/24/2024 7:13:05 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0108 ppm	0.0140 ppm	0.0113 ppm	0.0113 ppm	0.0103 ppm	0.0105 ppm	0.0173 ppm
Concentration per Run 1	0.0108 ppm	0.0072 ppm	0.0095 ppm	0.0105 ppm	0.0103 ppm	0.0105 ppm	0.0175 ppm
Concentration per Run 2	0.0107 ppm	0.0249 ppm	0.0126 ppm	0.0124 ppm	0.0102 ppm	0.0106 ppm	0.0175 ppm
Concentration per Run 3	0.0108 ppm	0.0100 ppm	0.0117 ppm	0.0109 ppm	0.0104 ppm	0.0104 ppm	0.0169 ppm
Recovery Percentage 1	0.000 %	0.000 %	112.577 %	112.726 %	103.057 %	0.000 %	0.000 %
Concentration RSD	0.3 %	67.8 %	14.1 %	9.1 %	0.8 %	0.8 %	2.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0105 ppm	0.0101 ppm	0.0098 ppm	0.0101 ppm	0.0131 ppm	0.1018 ppm	**0.0121 ppm**
Concentration per Run 1	0.0104 ppm	0.0098 ppm	0.0096 ppm	0.0098 ppm	0.0123 ppm	0.1095 ppm	0.0120 ppm
Concentration per Run 2	0.0105 ppm	0.0109 ppm	0.0101 ppm	0.0102 ppm	0.0134 ppm	0.1164 ppm	0.0132 ppm
Concentration per Run 3	0.0104 ppm	0.0097 ppm	0.0098 ppm	0.0101 ppm	0.0135 ppm	0.0794 ppm	0.0111 ppm
Recovery Percentage 1	0.000 %	101.153 %	98.083 %	100.554 %	0.000 %	0.000 %	121.014 %
Concentration RSD	0.7 %	6.5 %	2.5 %	2.4 %	5.1 %	19.3 %	**8.7 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0107 ppm	0.0104 ppm	0.0100 ppm	0.2175 ppm	0.0115 ppm	0.0106 ppm	0.0092 ppm
Concentration per Run 1	0.0111 ppm	0.0104 ppm	0.0099 ppm	0.2219 ppm	0.0124 ppm	0.0089 ppm	0.0086 ppm
Concentration per Run 2	0.0111 ppm	0.0103 ppm	0.0096 ppm	0.2145 ppm	0.0123 ppm	0.0109 ppm	0.0108 ppm
Concentration per Run 3	0.0098 ppm	0.0104 ppm	0.0104 ppm	0.2163 ppm	0.0099 ppm	0.0121 ppm	0.0081 ppm
Recovery Percentage 1	0.000 %	103.558 %	0.000 %	0.000 %	115.094 %	106.220 %	0.000 %
Concentration RSD	6.9 %	0.6 %	4.0 %	1.8 %	12.3 %	14.9 %	15.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0105 ppm	0.1072 ppm	0.0084 ppm	0.0104 ppm	0.0107 ppm	0.0107 ppm	0.0098 ppm
Concentration per Run 1	0.0103 ppm	0.1072 ppm	0.0088 ppm	0.0104 ppm	0.0106 ppm	0.0098 ppm	0.0095 ppm
Concentration per Run 2	0.0119 ppm	0.1093 ppm	0.0081 ppm	0.0105 ppm	0.0108 ppm	0.0117 ppm	0.0101 ppm
Concentration per Run 3	0.0092 ppm	0.1052 ppm	0.0084 ppm	0.0105 ppm	0.0106 ppm	0.0107 ppm	0.0098 ppm
Recovery Percentage 1	104.768 %	0.000 %	84.235 %	104.270 %	106.586 %	107.267 %	97.898 %
Concentration RSD	12.9 %	1.9 %	3.9 %	0.6 %	1.4 %	8.9 %	2.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0098 ppm	103.9548 %	101.4031 %	102.1831 %	102.4945 %	101.0850 %	102.6385 %
Concentration per Run 1	0.0100 ppm	103.8311 %	101.3744 %	101.5550 %	102.6091 %	100.9061 %	101.8612 %
Concentration per Run 2	0.0097 ppm	103.8704 %	101.8918 %	102.3320 %	102.5281 %	101.8750 %	102.8159 %
Concentration per Run 3	0.0096 ppm	104.1631 %	100.9430 %	102.6623 %	102.3463 %	100.4739 %	103.2384 %
Recovery Percentage 1	97.546 %						
Concentration RSD	1.9 %	0.2 %	0.5 %	0.6 %	0.1 %	0.7 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR 20 As pass
Analysis started at: 9/24/2024 7:16:57 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0066 ppm	19.3466 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 1	0.0004 ppm	0.0004 ppm	19.2915 ppm	0.0030 ppm	-0.0003 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 2	0.0004 ppm	-0.0033 ppm	19.3751 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0005 ppm	0.0226 ppm	19.3733 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0083 ppm
Concentration RSD	14.9 %	213.2 %	0.2 %	88.6 %	85.4 %	30,750.4 %	99.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0003 ppm	-0.0003 ppm	-0.0002 ppm	0.0059 ppm	-0.0106 ppm	0.0015 ppm
Concentration per Run 1	-0.0005 ppm	-0.0009 ppm	-0.0004 ppm	-0.0001 ppm	0.0055 ppm	-0.0060 ppm	0.0023 ppm
Concentration per Run 2	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	-0.0005 ppm	0.0053 ppm	-0.0349 ppm	0.0000 ppm
Concentration per Run 3	-0.0004 ppm	0.0000 ppm	-0.0005 ppm	-0.0001 ppm	0.0069 ppm	0.0090 ppm	0.0020 ppm
Concentration RSD	38.0 %	143.6 %	134.7 %	102.7 %	14.9 %	210.1 %	84.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	0.0002 ppm	0.0005 ppm	0.0069 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	0.0011 ppm	0.0003 ppm	0.0004 ppm	0.0015 ppm	-0.0016 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0136 ppm	0.0011 ppm	-0.0019 ppm	0.0005 ppm
Concentration per Run 3	0.0016 ppm	0.0004 ppm	0.0003 ppm	0.0067 ppm	-0.0004 ppm	0.0001 ppm	0.0014 ppm
Concentration RSD	259.4 %	104.5 %	105.2 %	96.4 %	217.7 %	1,367.3 %	1,787.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0030 ppm	-0.0036 ppm	-0.0007 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.0014 ppm	-0.0021 ppm	-0.0009 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run 2	-0.0042 ppm	-0.0056 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0034 ppm	-0.0030 ppm	-0.0007 ppm	0.0002 ppm	0.0005 ppm	-0.0003 ppm	0.0000 ppm
Concentration RSD	49.0 %	51.6 %	22.7 %	22.3 %	89.7 %	67.3 %	132.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	105.8432 %	103.8553 %	104.2191 %	103.5720 %	103.2442 %	104.2046 %
Concentration per Run 1	-0.0004 ppm	106.7522 %	104.3795 %	104.6635 %	104.4324 %	103.8426 %	104.3453 %
Concentration per Run 2	-0.0006 ppm	104.9640 %	103.7474 %	104.2909 %	102.6388 %	103.3252 %	104.4167 %
Concentration per Run 3	-0.0009 ppm	105.8133 %	103.4390 %	103.7029 %	103.6447 %	102.5647 %	103.8516 %
Concentration RSD	36.3 %	0.8 %	0.5 %	0.5 %	0.9 %	0.6 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR 20 B pass
Analysis started at: 9/24/2024 7:20:50 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0020 ppm	0.0007 ppm	19.6259 ppm	-0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	0.0053 ppm	0.0023 ppm	19.5766 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0005 ppm	19.6704 ppm	-0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	-0.0008 ppm	19.6306 ppm	-0.0002 ppm	0.0000 ppm	0.0051 ppm
Concentration RSD	127.3 %	143.1 %	231.5 %	0.2 %	264.8 %	558.8 %	101.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0007 ppm	-0.0005 ppm	-0.0003 ppm	0.0047 ppm	0.0081 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0006 ppm	-0.0005 ppm	0.0054 ppm	0.0084 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	-0.0014 ppm	-0.0005 ppm	-0.0007 ppm	0.0023 ppm	0.0071 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0064 ppm	0.0089 ppm	0.0011 ppm
Concentration RSD	314.3 %	89.2 %	42.7 %	126.9 %	45.8 %	11.5 %	88.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0006 ppm	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0007 ppm	-0.0009 ppm	0.0010 ppm
Concentration per Run 1	-0.0014 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0008 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 2	0.0014 ppm	-0.0001 ppm	-0.0005 ppm	0.0007 ppm	0.0003 ppm	-0.0012 ppm	0.0021 ppm
Concentration per Run 3	0.0019 ppm	0.0001 ppm	-0.0008 ppm	-0.0011 ppm	0.0011 ppm	-0.0014 ppm	-0.0005 ppm
Concentration RSD	273.6 %	152.3 %	112.8 %	409.7 %	51.4 %	76.6 %	135.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	-0.0024 ppm	-0.0023 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0049 ppm	-0.0008 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0004 ppm
Concentration per Run 2	-0.0017 ppm	0.0021 ppm	-0.0031 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0010 ppm	-0.0044 ppm	-0.0029 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm
Concentration RSD	104.6 %	160.7 %	55.1 %	54.8 %	127.7 %	34.9 %	45.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0010 ppm	105.7874 %	101.8473 %	104.1934 %	103.9832 %	101.4748 %	104.6960 %
Concentration per Run 1	-0.0011 ppm	105.9539 %	101.3479 %	104.7559 %	104.5148 %	101.0164 %	105.5060 %
Concentration per Run 2	-0.0009 ppm	105.5386 %	102.3027 %	103.8451 %	103.4326 %	101.6611 %	103.9776 %
Concentration per Run 3	-0.0010 ppm	105.8698 %	101.8913 %	103.9791 %	104.0023 %	101.7470 %	104.6043 %
Concentration RSD	6.6 %	0.2 %	0.5 %	0.5 %	0.5 %	0.4 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR 200 Fe pass
Analysis started at: 9/24/2024 7:24:42 AM
Rack 1
Vial 5
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	0.0152 ppm	-0.0007 ppm	0.0157 ppm	0.0000 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 1	0.0003 ppm	0.0239 ppm	-0.0010 ppm	0.0171 ppm	-0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	0.0013 ppm	0.0101 ppm	-0.0007 ppm	0.0150 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 3	0.0010 ppm	0.0118 ppm	-0.0003 ppm	0.0151 ppm	0.0001 ppm	0.0001 ppm	0.0062 ppm
Recovery Percentage 1	12.652 %		-13.254 %	52.495 %	0.357 %	1.029 %	
Concentration RSD	57.9 %	49.4 %	56.5 %	7.7 %	238.0 %	90.6 %	104.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0014 ppm	-0.0005 ppm	0.0005 ppm	197.2082 ppm	-0.0229 ppm	0.0018 ppm
Concentration per Run 1	0.0002 ppm	-0.0012 ppm	-0.0005 ppm	0.0007 ppm	197.6653 ppm	-0.0169 ppm	0.0025 ppm
Concentration per Run 2	0.0001 ppm	-0.0019 ppm	-0.0006 ppm	0.0006 ppm	196.2737 ppm	-0.0285 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0012 ppm	-0.0004 ppm	0.0002 ppm	197.6856 ppm	-0.0232 ppm	0.0027 ppm
Recovery Percentage 1	2.557 %	-7.129 %	-4.796 %	4.896 %		-0.915 %	36.365 %
Concentration RSD	38.0 %	31.2 %	19.5 %	58.8 %	0.4 %	25.4 %	76.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0017 ppm	-0.0012 ppm	-0.0013 ppm	0.0029 ppm	-0.0005 ppm	0.0006 ppm	-0.0023 ppm
Concentration per Run 1	-0.0023 ppm	-0.0013 ppm	-0.0015 ppm	-0.0047 ppm	-0.0007 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 2	-0.0018 ppm	-0.0011 ppm	-0.0012 ppm	0.0063 ppm	0.0000 ppm	-0.0005 ppm	-0.0023 ppm
Concentration per Run 3	-0.0008 ppm	-0.0013 ppm	-0.0012 ppm	0.0071 ppm	-0.0008 ppm	0.0007 ppm	-0.0048 ppm
Recovery Percentage 1		-12.382 %	-2.622 %	0.146 %	-2.026 %	5.733 %	-4.522 %
Concentration RSD	46.8 %	7.2 %	9.8 %	225.2 %	95.0 %	172.3 %	112.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	-0.0006 ppm	-0.0014 ppm	0.0003 ppm	0.0006 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0023 ppm	-0.0010 ppm	-0.0005 ppm	0.0004 ppm	0.0009 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0016 ppm	0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0003 ppm
Concentration per Run 3	0.0016 ppm	-0.0003 ppm	-0.0022 ppm	0.0003 ppm	0.0005 ppm	0.0014 ppm	0.0001 ppm
Recovery Percentage 1	12.787 %	-0.113 %	-2.841 %	3.252 %	5.754 %	4.313 %	2.392 %
Concentration RSD	92.8 %	70.6 %	61.7 %	30.8 %	54.6 %	62.7 %	51.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0013 ppm	104.8431 %	103.4274 %	99.1611 %	101.9619 %	102.9953 %	102.6033 %
Concentration per Run 1	-0.0013 ppm	105.1342 %	102.7142 %	99.3115 %	102.0027 %	102.9064 %	102.6204 %
Concentration per Run 2	-0.0014 ppm	104.8665 %	103.8843 %	99.5032 %	102.2171 %	103.1952 %	102.9200 %
Concentration per Run 3	-0.0012 ppm	104.5286 %	103.6838 %	98.6687 %	101.6658 %	102.8842 %	102.2694 %
Recovery Percentage 1	-25.622 %						
Concentration RSD	4.9 %	0.3 %	0.6 %	0.4 %	0.3 %	0.2 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: XLDR 1000 Ca
Analysis started at: 9/24/2024 7:28:35 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0168 ppm	0.0022 ppm	0.0097 ppm	0.0007 ppm	0.0000 ppm	886.0642 [SIC 1000]
Concentration per Run 1	-0.0002 ppm	0.0177 ppm	0.0008 ppm	0.0082 ppm	0.0007 ppm	0.0000 ppm	886.2550 ppm
Concentration per Run 2	0.0002 ppm	0.0229 ppm	0.0034 ppm	0.0094 ppm	0.0007 ppm	0.0000 ppm	887.3409 ppm
Concentration per Run 3	0.0002 ppm	0.0097 ppm	0.0025 ppm	0.0114 ppm	0.0008 ppm	0.0000 ppm	884.5968 ppm
Concentration RSD	421.2 %	39.6 %	58.5 %	16.9 %	9.2 %	98.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	-0.0010 ppm	0.0005 ppm	0.0107 ppm	0.0228 ppm	-0.0006 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	-0.0015 ppm	0.0003 ppm	0.0109 ppm	0.0122 ppm	0.0015 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	-0.0006 ppm	0.0009 ppm	0.0094 ppm	0.0332 ppm	-0.0012 ppm
Concentration per Run 3	-0.0002 ppm	-0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0117 ppm	0.0231 ppm	-0.0020 ppm
Concentration RSD	26.1 %	380.9 %	48.6 %	71.8 %	10.8 %	46.0 %	324.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0068 ppm	0.0004 ppm	0.0003 ppm	0.0157 ppm	0.0000 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 1	0.0046 ppm	0.0006 ppm	0.0007 ppm	0.0158 ppm	0.0000 ppm	0.0014 ppm	-0.0023 ppm
Concentration per Run 2	0.0096 ppm	0.0006 ppm	0.0008 ppm	0.0221 ppm	0.0001 ppm	0.0006 ppm	0.0018 ppm
Concentration per Run 3	0.0063 ppm	0.0002 ppm	-0.0005 ppm	0.0092 ppm	-0.0002 ppm	0.0006 ppm	-0.0003 ppm
Concentration RSD	36.9 %	47.8 %	224.7 %	41.2 %	5,888.5 %	55.9 %	861.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0070 ppm	-0.0021 ppm	-0.0014 ppm	0.0017 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 1	-0.0010 ppm	0.0084 ppm	-0.0019 ppm	-0.0013 ppm	0.0018 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 2	0.0045 ppm	0.0071 ppm	-0.0022 ppm	-0.0014 ppm	0.0014 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	0.0056 ppm	-0.0021 ppm	-0.0014 ppm	0.0018 ppm	0.0009 ppm	0.0005 ppm
Concentration RSD	297.1 %	19.9 %	6.6 %	4.0 %	14.0 %	40.7 %	27.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	95.5925 %	102.5580 %	84.8923 %	93.3640 %	102.8042 %	94.0518 %
Concentration per Run 1	0.0014 ppm	95.5091 %	102.7329 %	84.9321 %	93.1878 %	103.1321 %	93.9132 %
Concentration per Run 2	0.0010 ppm	95.7141 %	102.3852 %	84.9809 %	93.3688 %	102.8577 %	94.3244 %
Concentration per Run 3	0.0012 ppm	95.5543 %	102.5560 %	84.7640 %	93.5354 %	102.4229 %	93.9179 %
Concentration RSD	18.2 %	0.1 %	0.2 %	0.1 %	0.2 %	0.3 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR 500 Fe pass
Analysis started at: 9/24/2024 7:34:29 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0299 ppm	-0.0039 ppm	0.0050 ppm	0.0003 ppm	0.0000 ppm	0.0072 ppm
Concentration per Run 1	0.0003 ppm	0.0273 ppm	-0.0002 ppm	0.0042 ppm	0.0004 ppm	0.0001 ppm	0.0100 ppm
Concentration per Run 2	0.0002 ppm	0.0334 ppm	-0.0076 ppm	0.0055 ppm	0.0003 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 3	0.0007 ppm	0.0289 ppm	-0.0039 ppm	0.0054 ppm	0.0001 ppm	0.0000 ppm	0.0054 ppm
Concentration RSD	63.7 %	10.7 %	95.7 %	14.2 %	50.1 %	197.1 %	34.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0036 ppm	-0.0007 ppm	-0.0019 ppm	489.6768 ppm	-0.0680 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	-0.0037 ppm	-0.0005 ppm	-0.0030 ppm	490.4056 ppm	-0.0696 ppm	0.0006 ppm
Concentration per Run 2	0.0005 ppm	-0.0034 ppm	-0.0010 ppm	-0.0021 ppm	492.3491 ppm	-0.0685 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	-0.0036 ppm	-0.0006 ppm	-0.0005 ppm	486.2759 ppm	-0.0658 ppm	0.0018 ppm
Concentration RSD	42.3 %	3.5 %	34.3 %	66.8 %	0.6 %	2.9 %	116.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0029 ppm	-0.0031 ppm	-0.0034 ppm	0.0093 ppm	-0.0013 ppm	0.0008 ppm	-0.0071 ppm
Concentration per Run 1	-0.0003 ppm	-0.0031 ppm	-0.0038 ppm	0.0137 ppm	-0.0014 ppm	0.0016 ppm	-0.0079 ppm
Concentration per Run 2	-0.0020 ppm	-0.0031 ppm	-0.0031 ppm	0.0093 ppm	-0.0014 ppm	0.0005 ppm	-0.0074 ppm
Concentration per Run 3	-0.0063 ppm	-0.0032 ppm	-0.0033 ppm	0.0050 ppm	-0.0010 ppm	0.0002 ppm	-0.0060 ppm
Concentration RSD	108.1 %	2.2 %	11.3 %	46.6 %	16.8 %	99.9 %	13.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0015 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm	0.0014 ppm	0.0023 ppm
Concentration per Run 1	0.0031 ppm	-0.0014 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm	0.0027 ppm	0.0027 ppm
Concentration per Run 2	-0.0044 ppm	-0.0016 ppm	0.0001 ppm	0.0005 ppm	0.0007 ppm	0.0013 ppm	0.0021 ppm
Concentration per Run 3	-0.0010 ppm	-0.0015 ppm	-0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0001 ppm	0.0021 ppm
Concentration RSD	481.0 %	4.9 %	305.1 %	7.6 %	26.5 %	93.5 %	15.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0025 ppm	102.1286 %	103.5945 %	92.5933 %	99.4890 %	102.7188 %	100.5343 %
Concentration per Run 1	-0.0027 ppm	103.2642 %	103.8580 %	92.5119 %	100.4394 %	103.3983 %	100.8415 %
Concentration per Run 2	-0.0023 ppm	101.7690 %	103.0045 %	92.6077 %	99.0911 %	102.3140 %	100.3251 %
Concentration per Run 3	-0.0026 ppm	101.3527 %	103.9210 %	92.6603 %	98.9365 %	102.4441 %	100.4362 %
Concentration RSD	9.3 %	1.0 %	0.5 %	0.1 %	0.8 %	0.6 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 7:41:14 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5103 ppm	0.4901 ppm	0.4864 ppm	0.4986 ppm	0.5001 ppm	0.5144 ppm	0.4993 ppm
Concentration per Run 1	0.5060 ppm	0.4918 ppm	0.4884 ppm	0.4991 ppm	0.5024 ppm	0.5164 ppm	0.5008 ppm
Concentration per Run 2	0.5123 ppm	0.4942 ppm	0.4882 ppm	0.4971 ppm	0.4985 ppm	0.5137 ppm	0.4976 ppm
Concentration per Run 3	0.5125 ppm	0.4843 ppm	0.4827 ppm	0.4997 ppm	0.4995 ppm	0.5132 ppm	0.4994 ppm
Recovery Percentage 1	102.058 %	98.018 %	97.287 %	99.722 %	100.021 %	102.888 %	99.853 %
Concentration RSD	0.7 %	1.0 %	0.7 %	0.3 %	0.4 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5046 ppm	0.5168 ppm	0.4909 ppm	0.4953 ppm	0.5151 ppm	5.1973 ppm	0.4969 ppm
Concentration per Run 1	0.4989 ppm	0.5140 ppm	0.4877 ppm	0.4955 ppm	0.5115 ppm	5.2221 ppm	0.4952 ppm
Concentration per Run 2	0.5098 ppm	0.5185 ppm	0.4883 ppm	0.4945 ppm	0.5170 ppm	5.1709 ppm	0.4974 ppm
Concentration per Run 3	0.5053 ppm	0.5180 ppm	0.4967 ppm	0.4958 ppm	0.5168 ppm	5.1988 ppm	0.4981 ppm
Recovery Percentage 1	100.930 %	103.366 %	98.183 %	99.053 %	103.021 %	103.946 %	99.387 %
Concentration RSD	1.1 %	0.5 %	1.0 %	0.1 %	0.6 %	0.5 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4912 ppm	0.4925 ppm	0.4975 ppm	10.0340 ppm	0.5121 ppm	0.5033 ppm	0.5106 ppm
Concentration per Run 1	0.4897 ppm	0.4943 ppm	0.4952 ppm	10.0252 ppm	0.5118 ppm	0.5025 ppm	0.5123 ppm
Concentration per Run 2	0.4936 ppm	0.4922 ppm	0.4968 ppm	10.0883 ppm	0.5080 ppm	0.5056 ppm	0.5094 ppm
Concentration per Run 3	0.4901 ppm	0.4910 ppm	0.5005 ppm	9.9885 ppm	0.5165 ppm	0.5017 ppm	0.5099 ppm
Recovery Percentage 1	98.235 %	98.505 %	99.500 %	100.340 %	102.417 %	100.656 %	102.112 %
Concentration RSD	0.4 %	0.3 %	0.6 %	0.5 %	0.8 %	0.4 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4974 ppm	5.3749 ppm	0.4859 ppm	0.4806 ppm	0.5024 ppm	0.5059 ppm	0.4899 ppm
Concentration per Run 1	0.4948 ppm	5.3320 ppm	0.4871 ppm	0.4824 ppm	0.4984 ppm	0.5068 ppm	0.4893 ppm
Concentration per Run 2	0.5021 ppm	5.3796 ppm	0.4834 ppm	0.4797 ppm	0.5024 ppm	0.5080 ppm	0.4904 ppm
Concentration per Run 3	0.4953 ppm	5.4129 ppm	0.4874 ppm	0.4798 ppm	0.5064 ppm	0.5030 ppm	0.4902 ppm
Recovery Percentage 1	99.480 %	102.378 %	97.188 %	96.119 %	100.477 %	101.185 %	97.989 %
Concentration RSD	0.8 %	0.8 %	0.5 %	0.3 %	0.8 %	0.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5108 ppm	103.6705 %	102.4987 %	102.0801 %	101.4165 %	102.1092 %	102.4652 %
Concentration per Run 1	0.5105 ppm	103.7917 %	102.9027 %	102.3689 %	101.7819 %	102.6381 %	102.8728 %
Concentration per Run 2	0.5091 ppm	103.4904 %	101.5760 %	102.2177 %	100.9205 %	101.3802 %	102.3329 %
Concentration per Run 3	0.5128 ppm	103.7295 %	103.0172 %	101.6539 %	101.5472 %	102.3093 %	102.1898 %
Recovery Percentage 1	102.162 %						
Concentration RSD	0.4 %	0.2 %	0.8 %	0.4 %	0.4 %	0.6 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 7:45:13 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0060 ppm	0.0003 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 1	0.0005 ppm	0.0052 ppm	0.0006 ppm	0.0035 ppm	-0.0002 ppm	0.0001 ppm	-0.0028 ppm
Concentration per Run 2	0.0003 ppm	0.0092 ppm	-0.0003 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 3	0.0004 ppm	0.0037 ppm	0.0006 ppm	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm	-0.0046 ppm
Recovery Percentage 1	5.663 %	6.027 %	6.190 %	2.984 %	-1.361 %	0.696 %	-1.860 %
Concentration RSD	30.6 %	47.5 %	157.5 %	253.9 %	97.8 %	354.2 %	178.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0007 ppm	-0.0001 ppm	-0.0003 ppm	0.0045 ppm	-0.0029 ppm	0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0008 ppm	0.0003 ppm	-0.0007 ppm	0.0051 ppm	0.0123 ppm	-0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0010 ppm	-0.0003 ppm	-0.0003 ppm	0.0042 ppm	-0.0058 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0043 ppm	-0.0151 ppm	0.0010 ppm
Recovery Percentage 1	-2.377 %	3.599 %	-0.889 %	-3.196 %	9.066 %	-0.116 %	3.807 %
Concentration RSD	64.4 %	42.7 %	371.1 %	101.7 %	10.6 %	482.4 %	427.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0011 ppm	-0.0009 ppm	0.0004 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 1	-0.0022 ppm	0.0000 ppm	0.0012 ppm	0.0060 ppm	0.0005 ppm	-0.0006 ppm	-0.0023 ppm
Concentration per Run 2	0.0026 ppm	0.0002 ppm	0.0012 ppm	-0.0009 ppm	0.0006 ppm	0.0009 ppm	0.0007 ppm
Concentration per Run 3	-0.0013 ppm	0.0001 ppm	0.0010 ppm	-0.0078 ppm	0.0001 ppm	-0.0009 ppm	-0.0003 ppm
Recovery Percentage 1	-0.311 %	1.051 %	2.246 %	-0.045 %	1.569 %	-2.205 %	-1.282 %
Concentration RSD	813.7 %	74.3 %	7.9 %	775.0 %	60.1 %	443.9 %	240.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	-0.0033 ppm	-0.0016 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	-0.0042 ppm	-0.0048 ppm	-0.0015 ppm	0.0002 ppm	0.0006 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 2	-0.0003 ppm	-0.0012 ppm	-0.0022 ppm	0.0000 ppm	0.0006 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 3	-0.0008 ppm	-0.0040 ppm	-0.0009 ppm	0.0002 ppm	0.0006 ppm	-0.0001 ppm	-0.0008 ppm
Recovery Percentage 1	-17.543 %	-0.665 %	-3.100 %	1.279 %	6.240 %	0.596 %	-3.468 %
Concentration RSD	121.6 %	57.0 %	41.4 %	94.4 %	2.4 %	566.7 %	119.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0014 ppm	103.3705 %	102.2999 %	102.4371 %	102.4602 %	102.7048 %	103.5850 %
Concentration per Run 1	-0.0012 ppm	102.9611 %	102.7125 %	102.6099 %	101.9175 %	102.6255 %	104.0074 %
Concentration per Run 2	-0.0016 ppm	102.7980 %	101.4559 %	102.1717 %	101.9262 %	102.0867 %	102.8568 %
Concentration per Run 3	-0.0015 ppm	104.3524 %	102.7312 %	102.5296 %	103.5370 %	103.4022 %	103.8908 %
Recovery Percentage 1	-28.731 %						
Concentration RSD	16.3 %	0.8 %	0.7 %	0.2 %	0.9 %	0.6 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-1 WG1974842
Analysis started at: 9/24/2024 8:10:13 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0110 ppm	0.0004 ppm	0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	0.0010 ppm	0.0068 ppm	0.0008 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 2	0.0001 ppm	0.0189 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0093 ppm
Concentration per Run 3	0.0000 ppm	0.0075 ppm	0.0005 ppm	0.0012 ppm	-0.0001 ppm	0.0001 ppm	0.0049 ppm
Recovery Percentage 1	5.203 %	11.050 %	8.773 %	3.558 %	-0.503 %	0.676 %	5.867 %
Concentration RSD	145.8 %	61.3 %	85.9 %	59.7 %	79.5 %	113.3 %	51.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	-0.0012 ppm	-0.0001 ppm	0.0015 ppm	-0.0118 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	-0.0006 ppm	-0.0011 ppm	-0.0001 ppm	0.0017 ppm	-0.0042 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	-0.0012 ppm	-0.0004 ppm	0.0012 ppm	-0.0072 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0012 ppm	0.0002 ppm	0.0016 ppm	-0.0240 ppm	-0.0003 ppm
Recovery Percentage 1	1.174 %	-1.581 %	-11.598 %	-1.069 %	3.025 %	-0.470 %	1.531 %
Concentration RSD	169.8 %	88.4 %	1.9 %	254.3 %	16.7 %	90.8 %	893.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0023 ppm	0.0000 ppm	0.0000 ppm	-0.0031 ppm	-0.0003 ppm	-0.0005 ppm	-0.0018 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0006 ppm	0.0055 ppm	-0.0004 ppm	0.0002 ppm	-0.0025 ppm
Concentration per Run 2	0.0039 ppm	0.0000 ppm	-0.0001 ppm	-0.0078 ppm	-0.0005 ppm	-0.0010 ppm	0.0037 ppm
Concentration per Run 3	0.0024 ppm	-0.0001 ppm	-0.0005 ppm	-0.0070 ppm	-0.0001 ppm	-0.0007 ppm	-0.0066 ppm
Recovery Percentage 1	2.255 %	-0.242 %	0.038 %	-0.155 %	-1.356 %	-5.117 %	-3.602 %
Concentration RSD	77.4 %	241.6 %	2,994.1 %	240.0 %	59.2 %	121.0 %	287.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	-0.0062 ppm	-0.0018 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 1	-0.0002 ppm	-0.0077 ppm	-0.0028 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	-0.0009 ppm
Concentration per Run 2	-0.0006 ppm	-0.0063 ppm	-0.0006 ppm	-0.0001 ppm	0.0002 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 3	-0.0004 ppm	-0.0046 ppm	-0.0021 ppm	0.0002 ppm	0.0006 ppm	-0.0007 ppm	-0.0005 ppm
Recovery Percentage 1	-3.712 %	-1.239 %	-3.667 %	0.296 %	3.805 %	1.672 %	-6.175 %
Concentration RSD	53.5 %	25.2 %	60.6 %	568.1 %	45.9 %	267.2 %	40.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0012 ppm	101.1502 %	100.5726 %	100.4301 %	101.8968 %	101.4918 %	101.7390 %
Concentration per Run 1	-0.0012 ppm	101.7860 %	100.6859 %	100.0765 %	103.0265 %	101.9063 %	101.9952 %
Concentration per Run 2	-0.0011 ppm	100.5202 %	99.9646 %	100.9630 %	101.2190 %	100.6595 %	102.2795 %
Concentration per Run 3	-0.0012 ppm	101.1445 %	101.0673 %	100.2509 %	101.4449 %	101.9098 %	100.9424 %
Recovery Percentage 1	-23.703 %						
Concentration RSD	5.0 %	0.6 %	0.6 %	0.5 %	1.0 %	0.7 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-2 WG1974842
Analysis started at: 9/24/2024 8:14:12 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0503 ppm	1.8744 ppm	0.1154 ppm	0.9512 ppm	1.8998 ppm	0.0486 ppm	9.6175 ppm
Concentration per Run 1	0.0505 ppm	1.8521 ppm	0.1162 ppm	0.9553 ppm	1.9020 ppm	0.0486 ppm	9.5901 ppm
Concentration per Run 2	0.0503 ppm	1.8634 ppm	0.1148 ppm	0.9449 ppm	1.8950 ppm	0.0485 ppm	9.6036 ppm
Concentration per Run 3	0.0503 ppm	1.9078 ppm	0.1153 ppm	0.9532 ppm	1.9024 ppm	0.0488 ppm	9.6587 ppm
Concentration RSD	0.3 %	1.6 %	0.6 %	0.6 %	0.2 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0522 ppm	0.4861 ppm	0.1890 ppm	0.2390 ppm	0.9788 ppm	9.8709 ppm	0.0011 ppm
Concentration per Run 1	0.0521 ppm	0.4918 ppm	0.1911 ppm	0.2408 ppm	0.9761 ppm	9.8198 ppm	0.0005 ppm
Concentration per Run 2	0.0522 ppm	0.4843 ppm	0.1869 ppm	0.2376 ppm	0.9759 ppm	9.8878 ppm	0.0000 ppm
Concentration per Run 3	0.0522 ppm	0.4821 ppm	0.1889 ppm	0.2386 ppm	0.9845 ppm	9.9050 ppm	0.0026 ppm
Concentration RSD	0.1 %	1.0 %	1.1 %	0.7 %	0.5 %	0.5 %	130.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.6943 ppm	0.4826 ppm	0.9331 ppm	9.6781 ppm	0.4874 ppm	0.5180 ppm	0.4147 ppm
Concentration per Run 1	9.7811 ppm	0.4822 ppm	0.9345 ppm	9.6389 ppm	0.4921 ppm	0.5185 ppm	0.4063 ppm
Concentration per Run 2	9.6693 ppm	0.4815 ppm	0.9281 ppm	9.6306 ppm	0.4856 ppm	0.5195 ppm	0.4166 ppm
Concentration per Run 3	9.6326 ppm	0.4842 ppm	0.9366 ppm	9.7649 ppm	0.4845 ppm	0.5161 ppm	0.4214 ppm
Concentration RSD	0.8 %	0.3 %	0.5 %	0.8 %	0.8 %	0.3 %	1.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1135 ppm	0.5580 ppm	0.9221 ppm	0.9201 ppm	0.9724 ppm	0.1182 ppm	0.4795 ppm
Concentration per Run 1	0.1153 ppm	0.5616 ppm	0.9253 ppm	0.9174 ppm	0.9786 ppm	0.1176 ppm	0.4856 ppm
Concentration per Run 2	0.1103 ppm	0.5556 ppm	0.9196 ppm	0.9149 ppm	0.9698 ppm	0.1181 ppm	0.4767 ppm
Concentration per Run 3	0.1148 ppm	0.5570 ppm	0.9214 ppm	0.9278 ppm	0.9686 ppm	0.1187 ppm	0.4761 ppm
Concentration RSD	2.4 %	0.6 %	0.3 %	0.7 %	0.6 %	0.5 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4899 ppm	102.9279 %	102.7993 %	101.3645 %	100.8461 %	102.3378 %	102.0515 %
Concentration per Run 1	0.4951 ppm	101.3261 %	102.9886 %	101.5426 %	99.7661 %	102.5372 %	101.8733 %
Concentration per Run 2	0.4864 ppm	104.1392 %	103.0235 %	100.6947 %	102.0117 %	102.4712 %	101.4414 %
Concentration per Run 3	0.4883 ppm	103.3185 %	102.3858 %	101.8563 %	100.7605 %	102.0049 %	102.8397 %
Concentration RSD	0.9 %	1.4 %	0.3 %	0.6 %	1.1 %	0.3 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2450787-01 WG1974842
Analysis started at: 9/24/2024 8:18:06 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0315 ppm	0.0015 ppm	0.0148 ppm	0.0244 ppm	0.0000 ppm	15.0880 ppm
Concentration per Run 1	0.0011 ppm	0.0319 ppm	0.0015 ppm	0.0158 ppm	0.0242 ppm	0.0000 ppm	15.0904 ppm
Concentration per Run 2	0.0005 ppm	0.0418 ppm	0.0026 ppm	0.0134 ppm	0.0245 ppm	0.0000 ppm	15.1444 ppm
Concentration per Run 3	-0.0007 ppm	0.0209 ppm	0.0003 ppm	0.0152 ppm	0.0247 ppm	0.0000 ppm	15.0292 ppm
Concentration RSD	336.2 %	33.1 %	76.3 %	8.3 %	1.0 %	198.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0081 ppm	0.0336 ppm	2.1751 ppm	0.0023 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	-0.0011 ppm	0.0077 ppm	0.0355 ppm	2.2012 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0010 ppm	0.0083 ppm	0.0347 ppm	2.1814 ppm	0.0026 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0085 ppm	0.0306 ppm	2.1427 ppm	0.0015 ppm
Concentration RSD	6,264.5 %	4,479.5 %	86.6 %	5.2 %	7.9 %	1.4 %	30.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.4635 ppm	0.0009 ppm	0.0049 ppm	95.7484 ppm	0.0005 ppm	0.0004 ppm	0.0045 ppm
Concentration per Run 1	3.4777 ppm	0.0010 ppm	0.0049 ppm	95.3771 ppm	0.0001 ppm	-0.0005 ppm	0.0052 ppm
Concentration per Run 2	3.4733 ppm	0.0009 ppm	0.0041 ppm	96.3262 ppm	0.0013 ppm	0.0013 ppm	0.0032 ppm
Concentration per Run 3	3.4394 ppm	0.0008 ppm	0.0058 ppm	95.5420 ppm	0.0000 ppm	0.0003 ppm	0.0051 ppm
Concentration RSD	0.6 %	13.2 %	16.6 %	0.5 %	145.9 %	231.8 %	25.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	1.5353 ppm	0.0035 ppm	0.0830 ppm	0.0008 ppm	0.0020 ppm	-0.0004 ppm
Concentration per Run 1	-0.0047 ppm	1.5428 ppm	0.0047 ppm	0.0828 ppm	0.0010 ppm	0.0034 ppm	-0.0003 ppm
Concentration per Run 2	-0.0037 ppm	1.5350 ppm	0.0034 ppm	0.0835 ppm	0.0005 ppm	0.0019 ppm	-0.0003 ppm
Concentration per Run 3	0.0006 ppm	1.5280 ppm	0.0022 ppm	0.0827 ppm	0.0008 ppm	0.0007 ppm	-0.0007 ppm
Concentration RSD	108.3 %	0.5 %	35.9 %	0.5 %	31.4 %	68.1 %	57.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0031 ppm	100.4584 %	100.7277 %	97.8564 %	98.9306 %	100.6812 %	101.1318 %
Concentration per Run 1	0.0030 ppm	100.4534 %	100.7577 %	98.0790 %	99.1592 %	100.8764 %	101.6278 %
Concentration per Run 2	0.0029 ppm	99.9119 %	100.6115 %	97.2063 %	98.4184 %	100.6056 %	100.3356 %
Concentration per Run 3	0.0033 ppm	101.0100 %	100.8141 %	98.2840 %	99.2144 %	100.5617 %	101.4320 %
Concentration RSD	6.2 %	0.5 %	0.1 %	0.6 %	0.4 %	0.2 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2450787-02 WG1974842
Analysis started at: 9/24/2024 8:22:00 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0272 ppm	0.0010 ppm	0.0130 ppm	0.0127 ppm	0.0000 ppm	6.8358 ppm
Concentration per Run 1	0.0002 ppm	0.0282 ppm	0.0005 ppm	0.0129 ppm	0.0126 ppm	0.0000 ppm	6.8373 ppm
Concentration per Run 2	0.0003 ppm	0.0237 ppm	0.0023 ppm	0.0115 ppm	0.0126 ppm	0.0000 ppm	6.8123 ppm
Concentration per Run 3	0.0010 ppm	0.0298 ppm	0.0002 ppm	0.0146 ppm	0.0128 ppm	0.0001 ppm	6.8577 ppm
Concentration RSD	92.4 %	11.6 %	110.7 %	11.8 %	1.0 %	137.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0091 ppm	0.1375 ppm	1.7393 ppm	0.0022 ppm
Concentration per Run 1	-0.0002 ppm	0.0011 ppm	-0.0004 ppm	0.0095 ppm	0.1409 ppm	1.7392 ppm	0.0015 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0085 ppm	0.1368 ppm	1.7421 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	-0.0007 ppm	0.0093 ppm	0.1347 ppm	1.7366 ppm	0.0030 ppm
Concentration RSD	1,295.4 %	599.8 %	28.4 %	5.5 %	2.3 %	0.2 %	36.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.4771 ppm	0.0047 ppm	0.0039 ppm	103.0234 ppm	0.0017 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	1.4859 ppm	0.0046 ppm	0.0041 ppm	102.6870 ppm	0.0009 ppm	0.0007 ppm	0.0010 ppm
Concentration per Run 2	1.4803 ppm	0.0047 ppm	0.0036 ppm	103.1333 ppm	0.0024 ppm	0.0003 ppm	0.0010 ppm
Concentration per Run 3	1.4651 ppm	0.0048 ppm	0.0042 ppm	103.2500 ppm	0.0020 ppm	0.0012 ppm	-0.0014 ppm
Concentration RSD	0.7 %	2.5 %	8.6 %	0.3 %	44.6 %	65.1 %	671.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	1.7570 ppm	-0.0007 ppm	0.0363 ppm	0.0004 ppm	0.0016 ppm	-0.0002 ppm
Concentration per Run 1	-0.0028 ppm	1.7660 ppm	-0.0024 ppm	0.0363 ppm	0.0003 ppm	0.0017 ppm	-0.0002 ppm
Concentration per Run 2	-0.0032 ppm	1.7575 ppm	0.0001 ppm	0.0363 ppm	0.0002 ppm	0.0020 ppm	-0.0004 ppm
Concentration per Run 3	0.0027 ppm	1.7474 ppm	0.0002 ppm	0.0364 ppm	0.0008 ppm	0.0010 ppm	-0.0001 ppm
Concentration RSD	303.8 %	0.5 %	210.0 %	0.2 %	74.8 %	32.0 %	71.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	101.6900 %	102.4547 %	97.3119 %	100.0077 %	102.3124 %	100.4576 %
Concentration per Run 1	0.0018 ppm	101.1805 %	101.7937 %	97.6004 %	100.1345 %	101.6136 %	100.7409 %
Concentration per Run 2	0.0018 ppm	100.8757 %	103.1479 %	97.5272 %	98.8114 %	102.8023 %	100.8802 %
Concentration per Run 3	0.0013 ppm	103.0139 %	102.4227 %	96.8082 %	101.0770 %	102.5212 %	99.7517 %
Concentration RSD	17.5 %	1.1 %	0.7 %	0.4 %	1.1 %	0.6 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2450791-01 WG1974842
Analysis started at: 9/24/2024 8:25:54 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.1181 ppm	0.0009 ppm	0.0520 ppm	0.0015 ppm	0.0001 ppm	0.0555 ppm
Concentration per Run 1	0.0000 ppm	0.0965 ppm	0.0027 ppm	0.0510 ppm	0.0015 ppm	0.0001 ppm	0.0612 ppm
Concentration per Run 2	0.0002 ppm	0.1265 ppm	-0.0003 ppm	0.0519 ppm	0.0016 ppm	0.0001 ppm	0.0497 ppm
Concentration per Run 3	0.0005 ppm	0.1312 ppm	0.0003 ppm	0.0531 ppm	0.0015 ppm	0.0001 ppm	0.0557 ppm
Concentration RSD	104.7 %	15.9 %	174.5 %	2.0 %	4.7 %	30.8 %	10.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.1837 ppm	0.0398 ppm	1.0378 ppm	0.0006 ppm
Concentration per Run 1	0.0003 ppm	-0.0003 ppm	0.0002 ppm	0.1843 ppm	0.0425 ppm	1.0415 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0008 ppm	-0.0002 ppm	0.1834 ppm	0.0389 ppm	1.0471 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.1833 ppm	0.0379 ppm	1.0248 ppm	0.0006 ppm
Concentration RSD	149.1 %	71.4 %	1,691.3 %	0.3 %	6.0 %	1.1 %	73.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0225 ppm	0.0003 ppm	0.0000 ppm	0.9976 ppm	0.0004 ppm	-0.0002 ppm	-0.0015 ppm
Concentration per Run 1	0.0189 ppm	0.0005 ppm	-0.0002 ppm	1.0028 ppm	0.0002 ppm	-0.0016 ppm	0.0001 ppm
Concentration per Run 2	0.0239 ppm	0.0001 ppm	0.0002 ppm	0.9964 ppm	0.0009 ppm	0.0008 ppm	-0.0026 ppm
Concentration per Run 3	0.0247 ppm	0.0004 ppm	0.0000 ppm	0.9937 ppm	0.0001 ppm	0.0003 ppm	-0.0021 ppm
Concentration RSD	14.1 %	66.1 %	1,452.7 %	0.5 %	118.2 %	727.4 %	91.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	0.3249 ppm	-0.0011 ppm	0.0012 ppm	0.0037 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 1	0.0021 ppm	0.3310 ppm	-0.0008 ppm	0.0012 ppm	0.0036 ppm	-0.0005 ppm	0.0005 ppm
Concentration per Run 2	-0.0020 ppm	0.3235 ppm	-0.0008 ppm	0.0012 ppm	0.0041 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	0.0021 ppm	0.3204 ppm	-0.0018 ppm	0.0011 ppm	0.0034 ppm	-0.0005 ppm	0.0003 ppm
Concentration RSD	334.0 %	1.7 %	50.1 %	6.8 %	9.1 %	53.6 %	74.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0019 ppm	105.1776 %	103.4172 %	103.9659 %	103.3622 %	102.9652 %	104.1159 %
Concentration per Run 1	0.0022 ppm	104.5780 %	103.2177 %	104.5677 %	103.0664 %	103.2334 %	104.1896 %
Concentration per Run 2	0.0016 ppm	106.2031 %	104.1920 %	104.4842 %	104.3352 %	103.4482 %	105.0084 %
Concentration per Run 3	0.0018 ppm	104.7519 %	102.8420 %	102.8459 %	102.6850 %	102.2138 %	103.1498 %
Concentration RSD	15.5 %	0.8 %	0.7 %	0.9 %	0.8 %	0.6 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-01 WG1974842
Analysis started at: 9/24/2024 8:29:48 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.4621 ppm	0.0022 ppm	0.0149 ppm	0.0235 ppm	0.0001 ppm	23.6176 ppm
Concentration per Run 1	0.0003 ppm	0.4622 ppm	0.0016 ppm	0.0154 ppm	0.0234 ppm	0.0001 ppm	23.5973 ppm
Concentration per Run 2	0.0001 ppm	0.4647 ppm	0.0030 ppm	0.0148 ppm	0.0235 ppm	0.0001 ppm	23.5723 ppm
Concentration per Run 3	0.0002 ppm	0.4594 ppm	0.0020 ppm	0.0145 ppm	0.0236 ppm	0.0000 ppm	23.6834 ppm
Concentration RSD	38.2 %	0.6 %	32.9 %	3.2 %	0.6 %	40.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0027 ppm	0.8924 ppm	1.5114 ppm	0.0027 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0028 ppm	0.8889 ppm	1.4999 ppm	0.0027 ppm
Concentration per Run 2	-0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0022 ppm	0.8933 ppm	1.5357 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0031 ppm	0.8948 ppm	1.4985 ppm	0.0032 ppm
Concentration RSD	71.2 %	117.9 %	139.7 %	15.4 %	0.3 %	1.4 %	15.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8965 ppm	0.0656 ppm	-0.0002 ppm	16.4169 ppm	0.0014 ppm	0.0018 ppm	0.0004 ppm
Concentration per Run 1	4.9237 ppm	0.0656 ppm	0.0001 ppm	16.4084 ppm	0.0016 ppm	0.0017 ppm	0.0038 ppm
Concentration per Run 2	4.8913 ppm	0.0659 ppm	-0.0005 ppm	16.3687 ppm	0.0014 ppm	0.0011 ppm	-0.0032 ppm
Concentration per Run 3	4.8745 ppm	0.0652 ppm	-0.0002 ppm	16.4738 ppm	0.0011 ppm	0.0026 ppm	0.0004 ppm
Concentration RSD	0.5 %	0.5 %	160.5 %	0.3 %	19.0 %	42.5 %	948.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	1.2924 ppm	-0.0023 ppm	0.1273 ppm	0.0068 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 1	-0.0010 ppm	1.2982 ppm	-0.0024 ppm	0.1266 ppm	0.0062 ppm	-0.0008 ppm	0.0011 ppm
Concentration per Run 2	0.0012 ppm	1.2913 ppm	-0.0025 ppm	0.1273 ppm	0.0072 ppm	-0.0010 ppm	0.0007 ppm
Concentration per Run 3	-0.0072 ppm	1.2877 ppm	-0.0019 ppm	0.1280 ppm	0.0070 ppm	0.0000 ppm	0.0008 ppm
Concentration RSD	188.2 %	0.4 %	13.7 %	0.5 %	7.6 %	92.0 %	21.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0042 ppm	102.2224 %	102.6037 %	100.7322 %	101.0834 %	102.3293 %	102.5016 %
Concentration per Run 1	0.0042 ppm	101.4095 %	103.8647 %	102.0588 %	100.6647 %	103.4812 %	103.8353 %
Concentration per Run 2	0.0041 ppm	103.0812 %	103.1871 %	100.0954 %	101.6164 %	102.8020 %	101.9978 %
Concentration per Run 3	0.0044 ppm	102.1766 %	100.7594 %	100.0424 %	100.9693 %	100.7049 %	101.6718 %
Concentration RSD	3.3 %	0.8 %	1.6 %	1.1 %	0.5 %	1.4 %	1.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-3 WG1974842
Analysis started at: 9/24/2024 8:33:43 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0514 ppm	2.4016 ppm	0.1221 ppm	0.9862 ppm	1.9755 ppm	0.0504 ppm	32.8992 ppm
Concentration per Run 1	0.0509 ppm	2.4171 ppm	0.1211 ppm	0.9865 ppm	1.9727 ppm	0.0504 ppm	33.0040 ppm
Concentration per Run 2	0.0515 ppm	2.4033 ppm	0.1252 ppm	0.9853 ppm	1.9771 ppm	0.0505 ppm	32.9362 ppm
Concentration per Run 3	0.0517 ppm	2.3844 ppm	0.1201 ppm	0.9866 ppm	1.9766 ppm	0.0503 ppm	32.7575 ppm
Concentration RSD	0.7 %	0.7 %	2.2 %	0.1 %	0.1 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0521 ppm	0.4920 ppm	0.1929 ppm	0.2467 ppm	1.8681 ppm	11.6068 ppm	0.0046 ppm
Concentration per Run 1	0.0524 ppm	0.4922 ppm	0.1917 ppm	0.2469 ppm	1.8732 ppm	11.6007 ppm	0.0051 ppm
Concentration per Run 2	0.0524 ppm	0.4938 ppm	0.1934 ppm	0.2464 ppm	1.8675 ppm	11.6404 ppm	0.0039 ppm
Concentration per Run 3	0.0517 ppm	0.4902 ppm	0.1934 ppm	0.2469 ppm	1.8636 ppm	11.5793 ppm	0.0049 ppm
Concentration RSD	0.8 %	0.4 %	0.5 %	0.1 %	0.3 %	0.3 %	13.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.4839 ppm	0.5589 ppm	0.9091 ppm	25.9161 ppm	0.4940 ppm	0.5263 ppm	0.4350 ppm
Concentration per Run 1	14.4568 ppm	0.5599 ppm	0.9004 ppm	26.0345 ppm	0.4897 ppm	0.5297 ppm	0.4274 ppm
Concentration per Run 2	14.5019 ppm	0.5614 ppm	0.9109 ppm	25.8487 ppm	0.4967 ppm	0.5248 ppm	0.4358 ppm
Concentration per Run 3	14.4930 ppm	0.5553 ppm	0.9160 ppm	25.8652 ppm	0.4955 ppm	0.5245 ppm	0.4417 ppm
Concentration RSD	0.2 %	0.6 %	0.9 %	0.4 %	0.7 %	0.6 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1190 ppm	1.9242 ppm	0.8955 ppm	1.0644 ppm	0.9883 ppm	0.1205 ppm	0.4925 ppm
Concentration per Run 1	0.1199 ppm	1.9214 ppm	0.8937 ppm	1.0652 ppm	0.9852 ppm	0.1211 ppm	0.4928 ppm
Concentration per Run 2	0.1191 ppm	1.9274 ppm	0.8959 ppm	1.0643 ppm	0.9896 ppm	0.1208 ppm	0.4931 ppm
Concentration per Run 3	0.1179 ppm	1.9237 ppm	0.8970 ppm	1.0636 ppm	0.9900 ppm	0.1195 ppm	0.4916 ppm
Concentration RSD	0.8 %	0.2 %	0.2 %	0.1 %	0.3 %	0.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5053 ppm	102.7179 %	102.7639 %	99.9582 %	100.5074 %	101.4891 %	101.5484 %
Concentration per Run 1	0.5042 ppm	102.9883 %	102.5053 %	99.0333 %	101.2943 %	101.8870 %	100.8644 %
Concentration per Run 2	0.5088 ppm	102.1243 %	102.7863 %	100.6533 %	99.9444 %	101.6572 %	102.0352 %
Concentration per Run 3	0.5030 ppm	103.0411 %	103.0001 %	100.1881 %	100.2835 %	100.9231 %	101.7455 %
Concentration RSD	0.6 %	0.5 %	0.2 %	0.8 %	0.7 %	0.5 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-4 WG1974842
Analysis started at: 9/24/2024 8:37:37 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0507 ppm	2.4145 ppm	0.1199 ppm	0.9868 ppm	1.9709 ppm	0.0502 ppm	33.1743 ppm
Concentration per Run 1	0.0505 ppm	2.4141 ppm	0.1184 ppm	0.9815 ppm	1.9601 ppm	0.0501 ppm	33.1221 ppm
Concentration per Run 2	0.0504 ppm	2.4246 ppm	0.1210 ppm	0.9862 ppm	1.9907 ppm	0.0504 ppm	33.3259 ppm
Concentration per Run 3	0.0513 ppm	2.4047 ppm	0.1203 ppm	0.9927 ppm	1.9618 ppm	0.0502 ppm	33.0748 ppm
Concentration RSD	1.0 %	0.4 %	1.1 %	0.6 %	0.9 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0521 ppm	0.4883 ppm	0.1917 ppm	0.2449 ppm	1.9011 ppm	11.6220 ppm	0.0028 ppm
Concentration per Run 1	0.0523 ppm	0.4870 ppm	0.1927 ppm	0.2439 ppm	1.8999 ppm	11.5963 ppm	0.0036 ppm
Concentration per Run 2	0.0520 ppm	0.4879 ppm	0.1916 ppm	0.2438 ppm	1.9122 ppm	11.6817 ppm	0.0019 ppm
Concentration per Run 3	0.0520 ppm	0.4900 ppm	0.1910 ppm	0.2470 ppm	1.8913 ppm	11.5881 ppm	0.0029 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.8 %	0.6 %	0.4 %	30.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.5114 ppm	0.5600 ppm	0.9113 ppm	26.1195 ppm	0.4884 ppm	0.5231 ppm	0.4359 ppm
Concentration per Run 1	14.5095 ppm	0.5592 ppm	0.8993 ppm	26.0958 ppm	0.4878 ppm	0.5187 ppm	0.4335 ppm
Concentration per Run 2	14.5256 ppm	0.5616 ppm	0.9101 ppm	26.2948 ppm	0.4908 ppm	0.5255 ppm	0.4269 ppm
Concentration per Run 3	14.4992 ppm	0.5592 ppm	0.9245 ppm	25.9680 ppm	0.4865 ppm	0.5249 ppm	0.4474 ppm
Concentration RSD	0.1 %	0.2 %	1.4 %	0.6 %	0.5 %	0.7 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1166 ppm	1.9482 ppm	0.8976 ppm	1.0676 ppm	0.9833 ppm	0.1185 ppm	0.4907 ppm
Concentration per Run 1	0.1151 ppm	1.9451 ppm	0.8913 ppm	1.0643 ppm	0.9878 ppm	0.1172 ppm	0.4906 ppm
Concentration per Run 2	0.1184 ppm	1.9523 ppm	0.8970 ppm	1.0754 ppm	0.9836 ppm	0.1198 ppm	0.4902 ppm
Concentration per Run 3	0.1162 ppm	1.9473 ppm	0.9045 ppm	1.0631 ppm	0.9784 ppm	0.1185 ppm	0.4913 ppm
Concentration RSD	1.4 %	0.2 %	0.7 %	0.6 %	0.5 %	1.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5008 ppm	102.2825 %	102.2321 %	100.0750 %	100.1026 %	101.4269 %	101.3016 %
Concentration per Run 1	0.5002 ppm	102.5470 %	102.7649 %	99.7698 %	100.3427 %	102.1391 %	100.8581 %
Concentration per Run 2	0.4998 ppm	102.8853 %	101.4283 %	100.4764 %	100.5247 %	100.9658 %	101.6217 %
Concentration per Run 3	0.5023 ppm	101.4152 %	102.5030 %	99.9789 %	99.4405 %	101.1759 %	101.4251 %
Concentration RSD	0.3 %	0.8 %	0.7 %	0.4 %	0.6 %	0.6 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-5 WG1974842
Analysis started at: 9/24/2024 8:41:32 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0495 ppm	2.5094 ppm	0.1279 ppm	1.0540 ppm	2.0741 ppm	0.0529 ppm	34.2145 ppm
Concentration per Run 1	0.0496 ppm	2.5146 ppm	0.1286 ppm	1.0567 ppm	2.0624 ppm	0.0527 ppm	34.1817 ppm
Concentration per Run 2	0.0493 ppm	2.5228 ppm	0.1272 ppm	1.0511 ppm	2.0801 ppm	0.0530 ppm	34.3173 ppm
Concentration per Run 3	0.0497 ppm	2.4907 ppm	0.1280 ppm	1.0541 ppm	2.0798 ppm	0.0531 ppm	34.1444 ppm
Concentration RSD	0.5 %	0.7 %	0.6 %	0.3 %	0.5 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0540 ppm	0.5090 ppm	0.2002 ppm	0.2542 ppm	1.9532 ppm	12.5168 ppm	0.0031 ppm
Concentration per Run 1	0.0530 ppm	0.5054 ppm	0.1996 ppm	0.2543 ppm	1.9423 ppm	12.4719 ppm	0.0049 ppm
Concentration per Run 2	0.0540 ppm	0.5077 ppm	0.1989 ppm	0.2531 ppm	1.9634 ppm	12.5571 ppm	0.0019 ppm
Concentration per Run 3	0.0550 ppm	0.5141 ppm	0.2021 ppm	0.2553 ppm	1.9540 ppm	12.5213 ppm	0.0027 ppm
Concentration RSD	1.9 %	0.9 %	0.8 %	0.4 %	0.5 %	0.3 %	49.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.1655 ppm	0.5851 ppm	0.9821 ppm	27.1451 ppm	0.5100 ppm	0.5476 ppm	0.3762 ppm
Concentration per Run 1	15.1157 ppm	0.5858 ppm	0.9692 ppm	27.0426 ppm	0.5114 ppm	0.5438 ppm	0.3548 ppm
Concentration per Run 2	15.1657 ppm	0.5850 ppm	0.9796 ppm	27.4169 ppm	0.5074 ppm	0.5508 ppm	0.3797 ppm
Concentration per Run 3	15.2151 ppm	0.5845 ppm	0.9974 ppm	26.9760 ppm	0.5111 ppm	0.5482 ppm	0.3941 ppm
Concentration RSD	0.3 %	0.1 %	1.5 %	0.9 %	0.4 %	0.6 %	5.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1244 ppm	2.3711 ppm	1.0113 ppm	1.1447 ppm	1.0589 ppm	0.1249 ppm	0.5094 ppm
Concentration per Run 1	0.1228 ppm	2.3689 ppm	1.0081 ppm	1.1385 ppm	1.0554 ppm	0.1232 ppm	0.5078 ppm
Concentration per Run 2	0.1260 ppm	2.3601 ppm	1.0118 ppm	1.1484 ppm	1.0593 ppm	0.1255 ppm	0.5081 ppm
Concentration per Run 3	0.1243 ppm	2.3844 ppm	1.0138 ppm	1.1472 ppm	1.0622 ppm	0.1259 ppm	0.5122 ppm
Concentration RSD	1.3 %	0.5 %	0.3 %	0.5 %	0.3 %	1.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5240 ppm	102.4325 %	102.0331 %	99.1482 %	100.2296 %	101.2041 %	100.4946 %
Concentration per Run 1	0.5256 ppm	102.2148 %	102.4686 %	99.6390 %	100.2808 %	102.3171 %	101.1206 %
Concentration per Run 2	0.5232 ppm	102.8564 %	101.9275 %	99.1694 %	100.6130 %	100.9528 %	100.3782 %
Concentration per Run 3	0.5232 ppm	102.2263 %	101.7032 %	98.6362 %	99.7948 %	100.3423 %	99.9851 %
Concentration RSD	0.3 %	0.4 %	0.4 %	0.5 %	0.4 %	1.0 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-6D5 WG1974842
Analysis started at: 9/24/2024 8:45:24 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0929 ppm	0.0028 ppm	0.0049 ppm	0.0047 ppm	-0.0001 ppm	4.7194 ppm
Concentration per Run 1	0.0001 ppm	0.0908 ppm	0.0046 ppm	0.0058 ppm	0.0048 ppm	-0.0001 ppm	4.7397 ppm
Concentration per Run 2	-0.0002 ppm	0.1060 ppm	0.0028 ppm	0.0048 ppm	0.0046 ppm	0.0000 ppm	4.7275 ppm
Concentration per Run 3	0.0004 ppm	0.0817 ppm	0.0009 ppm	0.0041 ppm	0.0047 ppm	0.0000 ppm	4.6910 ppm
Concentration RSD	276.1 %	13.3 %	65.3 %	17.3 %	1.9 %	36.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.1827 ppm	0.2971 ppm	0.0017 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	0.1827 ppm	0.3188 ppm	0.0014 ppm
Concentration per Run 2	-0.0001 ppm	-0.0008 ppm	0.0002 ppm	-0.0002 ppm	0.1846 ppm	0.3060 ppm	0.0031 ppm
Concentration per Run 3	0.0000 ppm	-0.0006 ppm	-0.0004 ppm	0.0007 ppm	0.1807 ppm	0.2666 ppm	0.0006 ppm
Concentration RSD	116.3 %	161.4 %	1,149.3 %	280.9 %	1.0 %	9.2 %	73.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9673 ppm	0.0133 ppm	0.0049 ppm	3.2937 ppm	0.0013 ppm	0.0008 ppm	0.0082 ppm
Concentration per Run 1	0.9667 ppm	0.0134 ppm	0.0055 ppm	3.3163 ppm	0.0013 ppm	0.0010 ppm	0.0082 ppm
Concentration per Run 2	0.9622 ppm	0.0132 ppm	0.0044 ppm	3.3049 ppm	0.0006 ppm	0.0019 ppm	0.0115 ppm
Concentration per Run 3	0.9730 ppm	0.0132 ppm	0.0048 ppm	3.2597 ppm	0.0020 ppm	-0.0003 ppm	0.0048 ppm
Concentration RSD	0.6 %	0.7 %	11.2 %	0.9 %	55.2 %	133.8 %	40.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.2498 ppm	0.0209 ppm	0.0256 ppm	0.0020 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 1	0.0036 ppm	0.2493 ppm	0.0219 ppm	0.0257 ppm	0.0021 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0014 ppm	0.2488 ppm	0.0212 ppm	0.0256 ppm	0.0022 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0045 ppm	0.2513 ppm	0.0197 ppm	0.0256 ppm	0.0016 ppm	0.0013 ppm	-0.0003 ppm
Concentration RSD	2,637.5 %	0.5 %	5.2 %	0.2 %	15.7 %	326.0 %	83.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	103.4348 %	102.4009 %	104.1652 %	101.3221 %	101.8095 %	104.4007 %
Concentration per Run 1	-0.0001 ppm	103.9885 %	102.1993 %	111.8870 %	102.0790 %	101.6736 %	110.6952 %
Concentration per Run 2	-0.0003 ppm	104.3530 %	102.0254 %	99.5274 %	102.4537 %	101.6194 %	100.2100 %
Concentration per Run 3	-0.0003 ppm	101.9630 %	102.9780 %	101.0811 %	99.4336 %	102.1356 %	102.2969 %
Concentration RSD	55.6 %	1.2 %	0.5 %	6.5 %	1.6 %	0.3 %	5.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 8:49:16 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5074 ppm	0.4766 ppm	0.4852 ppm	0.4946 ppm	0.4971 ppm	0.5082 ppm	0.4911 ppm
Concentration per Run 1	0.5020 ppm	0.4861 ppm	0.4859 ppm	0.4906 ppm	0.4967 ppm	0.5090 ppm	0.4911 ppm
Concentration per Run 2	0.5099 ppm	0.4692 ppm	0.4871 ppm	0.4967 ppm	0.4967 ppm	0.5075 ppm	0.4914 ppm
Concentration per Run 3	0.5104 ppm	0.4745 ppm	0.4825 ppm	0.4966 ppm	0.4979 ppm	0.5081 ppm	0.4907 ppm
Recovery Percentage 1	101.480 %	95.324 %	97.032 %	98.926 %	99.419 %	101.638 %	98.211 %
Concentration RSD	0.9 %	1.8 %	0.5 %	0.7 %	0.1 %	0.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4975 ppm	0.5093 ppm	0.4883 ppm	0.4892 ppm	0.5044 ppm	5.1222 ppm	0.4907 ppm
Concentration per Run 1	0.4936 ppm	0.5073 ppm	0.4832 ppm	0.4861 ppm	0.5087 ppm	5.1571 ppm	0.4911 ppm
Concentration per Run 2	0.4986 ppm	0.5110 ppm	0.4916 ppm	0.4896 ppm	0.5023 ppm	5.0938 ppm	0.4916 ppm
Concentration per Run 3	0.5004 ppm	0.5097 ppm	0.4902 ppm	0.4920 ppm	0.5021 ppm	5.1155 ppm	0.4896 ppm
Recovery Percentage 1	99.506 %	101.863 %	97.665 %	97.849 %	100.878 %	102.443 %	98.149 %
Concentration RSD	0.7 %	0.4 %	0.9 %	0.6 %	0.7 %	0.6 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4891 ppm	0.4885 ppm	0.4928 ppm	9.9432 ppm	0.5078 ppm	0.4994 ppm	0.5082 ppm
Concentration per Run 1	0.4815 ppm	0.4888 ppm	0.4846 ppm	9.9239 ppm	0.5022 ppm	0.5021 ppm	0.5014 ppm
Concentration per Run 2	0.4937 ppm	0.4871 ppm	0.4947 ppm	9.9693 ppm	0.5111 ppm	0.5026 ppm	0.5108 ppm
Concentration per Run 3	0.4921 ppm	0.4895 ppm	0.4992 ppm	9.9363 ppm	0.5102 ppm	0.4935 ppm	0.5124 ppm
Recovery Percentage 1	97.813 %	97.692 %	98.566 %	99.432 %	101.562 %	99.876 %	101.643 %
Concentration RSD	1.4 %	0.3 %	1.5 %	0.2 %	1.0 %	1.0 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4905 ppm	5.2977 ppm	0.4887 ppm	0.4757 ppm	0.4988 ppm	0.4995 ppm	0.4853 ppm
Concentration per Run 1	0.4924 ppm	5.2298 ppm	0.4834 ppm	0.4761 ppm	0.4930 ppm	0.5012 ppm	0.4823 ppm
Concentration per Run 2	0.4937 ppm	5.3256 ppm	0.4934 ppm	0.4754 ppm	0.5020 ppm	0.5009 ppm	0.4857 ppm
Concentration per Run 3	0.4852 ppm	5.3377 ppm	0.4891 ppm	0.4757 ppm	0.5013 ppm	0.4963 ppm	0.4880 ppm
Recovery Percentage 1	98.090 %	100.909 %	97.732 %	95.146 %	99.754 %	99.893 %	97.065 %
Concentration RSD	0.9 %	1.1 %	1.0 %	0.1 %	1.0 %	0.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5062 ppm	105.0862 %	104.4116 %	103.0521 %	102.4957 %	103.2776 %	103.1332 %
Concentration per Run 1	0.5020 ppm	106.4745 %	104.6752 %	103.2113 %	103.9487 %	103.7350 %	103.4360 %
Concentration per Run 2	0.5077 ppm	104.5755 %	104.5863 %	101.8907 %	101.9092 %	103.2000 %	102.1347 %
Concentration per Run 3	0.5088 ppm	104.2086 %	103.9733 %	104.0542 %	101.6293 %	102.8978 %	103.8289 %
Recovery Percentage 1	101.237 %						
Concentration RSD	0.7 %	1.2 %	0.4 %	1.1 %	1.2 %	0.4 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 8:53:10 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0003 ppm	0.0023 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	0.0006 ppm	0.0069 ppm	0.0027 ppm	0.0026 ppm	-0.0001 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 2	0.0004 ppm	-0.0092 ppm	0.0032 ppm	0.0013 ppm	0.0002 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 3	-0.0003 ppm	0.0014 ppm	0.0010 ppm	0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0032 ppm
Recovery Percentage 1	3.728 %	-0.316 %	45.990 %	5.413 %	-0.695 %	-0.247 %	1.339 %
Concentration RSD	179.0 %	2,598.0 %	51.1 %	52.1 %	320.6 %	284.3 %	177.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0002 ppm	-0.0003 ppm	0.0029 ppm	-0.0236 ppm	0.0013 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	-0.0003 ppm	0.0014 ppm	-0.0017 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0011 ppm	0.0000 ppm	-0.0004 ppm	0.0029 ppm	-0.0126 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	-0.0002 ppm	-0.0002 ppm	0.0043 ppm	-0.0566 ppm	0.0006 ppm
Recovery Percentage 1	0.957 %	-1.751 %	-1.746 %	-2.927 %	5.752 %	-0.946 %	25.773 %
Concentration RSD	52.3 %	236.2 %	79.7 %	27.2 %	50.7 %	122.7 %	60.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0001 ppm	0.0014 ppm	0.0030 ppm	0.0004 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 1	-0.0021 ppm	-0.0001 ppm	0.0020 ppm	-0.0062 ppm	0.0004 ppm	-0.0014 ppm	0.0009 ppm
Concentration per Run 2	0.0013 ppm	0.0000 ppm	0.0011 ppm	0.0041 ppm	-0.0001 ppm	0.0004 ppm	-0.0036 ppm
Concentration per Run 3	-0.0026 ppm	-0.0001 ppm	0.0009 ppm	0.0111 ppm	0.0009 ppm	0.0007 ppm	0.0001 ppm
Recovery Percentage 1	-1.134 %	-0.525 %	2.746 %	0.149 %	1.554 %	-0.628 %	-1.729 %
Concentration RSD	187.8 %	103.6 %	42.6 %	290.0 %	128.1 %	1,831.1 %	274.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	-0.0018 ppm	0.0006 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	-0.0016 ppm	-0.0009 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 2	0.0013 ppm	-0.0022 ppm	0.0008 ppm	0.0002 ppm	0.0005 ppm	0.0004 ppm	-0.0004 ppm
Concentration per Run 3	-0.0032 ppm	-0.0024 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	-0.0006 ppm
Recovery Percentage 1	-11.527 %	-0.363 %	1.102 %	1.462 %	3.595 %	1.187 %	-3.012 %
Concentration RSD	197.6 %	46.1 %	91.0 %	8.0 %	44.6 %	138.6 %	122.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0014 ppm	103.8987 %	101.8880 %	102.5903 %	103.1935 %	101.7245 %	103.4500 %
Concentration per Run 1	-0.0015 ppm	103.7067 %	101.8158 %	102.9370 %	102.9608 %	101.7011 %	103.4988 %
Concentration per Run 2	-0.0012 ppm	104.1566 %	102.5610 %	102.4061 %	103.7280 %	102.3059 %	103.6448 %
Concentration per Run 3	-0.0016 ppm	103.8328 %	101.2872 %	102.4279 %	102.8917 %	101.1665 %	103.2065 %
Recovery Percentage 1	-28.090 %						
Concentration RSD	14.9 %	0.2 %	0.6 %	0.3 %	0.4 %	0.6 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: xLLOQ 0.005ppm
Analysis started at: 9/24/2024 9:05:16 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0057 ppm	0.0109 ppm	0.0074 ppm	0.0056 ppm	0.0049 ppm	0.0051 ppm	0.0098 ppm
Concentration per Run 1	0.0058 ppm	0.0140 ppm	0.0062 ppm	0.0055 ppm	0.0049 ppm	0.0051 ppm	0.0093 ppm
Concentration per Run 2	0.0057 ppm	0.0224 ppm	0.0083 ppm	0.0060 ppm	0.0049 ppm	0.0052 ppm	0.0106 ppm
Concentration per Run 3	0.0055 ppm	-0.0037 ppm	0.0078 ppm	0.0054 ppm	0.0050 ppm	0.0051 ppm	0.0096 ppm
Recovery Percentage 1	113.164 %	0.000 %	148.613 %	0.000 %	0.000 %	102.756 %	0.000 %
Concentration RSD	2.2 %	122.6 %	15.1 %	5.6 %	0.6 %	1.1 %	6.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0052 ppm	0.0059 ppm	0.0052 ppm	0.0049 ppm	0.0087 ppm	0.0346 ppm	0.0066 ppm
Concentration per Run 1	0.0052 ppm	0.0060 ppm	0.0054 ppm	0.0049 ppm	0.0088 ppm	0.0390 ppm	0.0081 ppm
Concentration per Run 2	0.0052 ppm	0.0066 ppm	0.0050 ppm	0.0049 ppm	0.0084 ppm	0.0224 ppm	0.0068 ppm
Concentration per Run 3	0.0054 ppm	0.0052 ppm	0.0052 ppm	0.0050 ppm	0.0088 ppm	0.0423 ppm	0.0051 ppm
Recovery Percentage 1	104.833 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	2.2 %	12.1 %	4.2 %	1.0 %	2.4 %	30.9 %	22.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0072 ppm	0.0048 ppm	0.0050 ppm	0.1098 ppm	0.0056 ppm	0.0044 ppm	0.0050 ppm
Concentration per Run 1	0.0089 ppm	0.0044 ppm	0.0050 ppm	0.1131 ppm	0.0054 ppm	0.0044 ppm	0.0060 ppm
Concentration per Run 2	0.0054 ppm	0.0049 ppm	0.0051 ppm	0.1117 ppm	0.0051 ppm	0.0040 ppm	0.0014 ppm
Concentration per Run 3	0.0074 ppm	0.0051 ppm	0.0048 ppm	0.1046 ppm	0.0064 ppm	0.0047 ppm	0.0076 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	24.5 %	7.1 %	2.8 %	4.2 %	11.9 %	7.2 %	64.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	0.0539 ppm	0.0048 ppm	0.0052 ppm	0.0053 ppm	0.0054 ppm	0.0045 ppm
Concentration per Run 1	-0.0005 ppm	0.0536 ppm	0.0051 ppm	0.0051 ppm	0.0051 ppm	0.0057 ppm	0.0046 ppm
Concentration per Run 2	0.0023 ppm	0.0541 ppm	0.0040 ppm	0.0051 ppm	0.0054 ppm	0.0069 ppm	0.0045 ppm
Concentration per Run 3	0.0049 ppm	0.0539 ppm	0.0054 ppm	0.0052 ppm	0.0053 ppm	0.0038 ppm	0.0043 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	118.3 %	0.4 %	14.6 %	1.2 %	3.4 %	28.6 %	3.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0042 ppm	101.3581 %	100.5122 %	100.4726 %	100.2486 %	100.6077 %	100.1983 %
Concentration per Run 1	0.0044 ppm	100.6633 %	100.5155 %	100.7691 %	99.6695 %	100.6701 %	101.0892 %
Concentration per Run 2	0.0041 ppm	102.0520 %	100.4055 %	100.4707 %	100.9290 %	100.7067 %	99.7564 %
Concentration per Run 3	0.0040 ppm	101.3591 %	100.6157 %	100.1780 %	100.1473 %	100.4465 %	99.7494 %
Recovery Percentage 1	83.966 %						
Concentration RSD	5.3 %	0.7 %	0.1 %	0.3 %	0.6 %	0.1 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2450791-02 WG1974842
Analysis started at: 9/24/2024 9:09:21 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0017 ppm	0.0019 ppm	0.0434 ppm	-0.0001 ppm	0.0000 ppm	0.0045 ppm
Concentration per Run 1	0.0009 ppm	0.0013 ppm	0.0001 ppm	0.0437 ppm	-0.0003 ppm	0.0000 ppm	0.0060 ppm
Concentration per Run 2	0.0002 ppm	-0.0028 ppm	0.0032 ppm	0.0424 ppm	0.0000 ppm	-0.0001 ppm	0.0035 ppm
Concentration per Run 3	-0.0001 ppm	-0.0036 ppm	0.0023 ppm	0.0442 ppm	-0.0001 ppm	0.0000 ppm	0.0040 ppm
Concentration RSD	135.2 %	156.3 %	85.1 %	2.1 %	119.1 %	71.6 %	29.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0048 ppm	3.3058 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm	0.0072 ppm	3.3314 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0027 ppm	3.3081 ppm	0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	0.0002 ppm	-0.0005 ppm	0.0044 ppm	3.2779 ppm	-0.0012 ppm
Concentration RSD	121.1 %	14.1 %	107.3 %	3,965.7 %	47.2 %	0.8 %	323.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0000 ppm	0.0001 ppm	21.0578 ppm	-0.0001 ppm	0.0007 ppm	-0.0025 ppm
Concentration per Run 1	0.0014 ppm	-0.0001 ppm	0.0003 ppm	21.1317 ppm	-0.0007 ppm	-0.0001 ppm	-0.0032 ppm
Concentration per Run 2	0.0011 ppm	0.0001 ppm	0.0004 ppm	21.0744 ppm	-0.0003 ppm	0.0020 ppm	-0.0025 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	-0.0005 ppm	20.9672 ppm	0.0006 ppm	0.0000 ppm	-0.0020 ppm
Concentration RSD	44.1 %	539.6 %	648.2 %	0.4 %	546.0 %	182.6 %	24.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	0.1085 ppm	-0.0022 ppm	0.0001 ppm	0.0030 ppm	0.0012 ppm	0.0010 ppm
Concentration per Run 1	-0.0013 ppm	0.1079 ppm	-0.0019 ppm	0.0001 ppm	0.0034 ppm	0.0010 ppm	0.0009 ppm
Concentration per Run 2	0.0017 ppm	0.1097 ppm	-0.0021 ppm	0.0001 ppm	0.0032 ppm	0.0016 ppm	0.0010 ppm
Concentration per Run 3	-0.0048 ppm	0.1080 ppm	-0.0026 ppm	0.0000 ppm	0.0024 ppm	0.0011 ppm	0.0010 ppm
Concentration RSD	225.4 %	0.9 %	16.3 %	64.3 %	16.7 %	25.8 %	6.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0011 ppm	103.7882 %	102.2171 %	102.3132 %	101.6235 %	101.3628 %	102.5228 %
Concentration per Run 1	-0.0011 ppm	102.8343 %	102.1009 %	102.3399 %	100.6933 %	101.2713 %	102.4637 %
Concentration per Run 2	-0.0012 ppm	103.9320 %	101.9434 %	102.0285 %	101.8573 %	100.9693 %	102.6196 %
Concentration per Run 3	-0.0011 ppm	104.5983 %	102.6070 %	102.5711 %	102.3199 %	101.8479 %	102.4851 %
Concentration RSD	5.3 %	0.9 %	0.3 %	0.3 %	0.8 %	0.4 %	0.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-03 WG1974842
Analysis started at: 9/24/2024 9:13:16 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.2083 ppm	0.0013 ppm	0.0148 ppm	0.0210 ppm	0.0000 ppm	23.4767 ppm
Concentration per Run 1	0.0000 ppm	0.2235 ppm	0.0011 ppm	0.0160 ppm	0.0211 ppm	0.0000 ppm	23.4124 ppm
Concentration per Run 2	-0.0003 ppm	0.2059 ppm	0.0032 ppm	0.0135 ppm	0.0209 ppm	0.0000 ppm	23.4982 ppm
Concentration per Run 3	0.0001 ppm	0.1955 ppm	-0.0004 ppm	0.0149 ppm	0.0211 ppm	0.0000 ppm	23.5196 ppm
Concentration RSD	234.4 %	6.8 %	137.6 %	8.6 %	0.5 %	149.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0026 ppm	0.3880 ppm	1.4922 ppm	0.0031 ppm
Concentration per Run 1	-0.0001 ppm	-0.0008 ppm	-0.0003 ppm	0.0027 ppm	0.3853 ppm	1.4971 ppm	0.0037 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0026 ppm	0.3862 ppm	1.5083 ppm	0.0030 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0024 ppm	0.3925 ppm	1.4713 ppm	0.0027 ppm
Concentration RSD	77.4 %	288.8 %	20.7 %	6.2 %	1.0 %	1.3 %	16.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7325 ppm	0.0299 ppm	0.0001 ppm	16.3735 ppm	0.0013 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 1	4.7682 ppm	0.0301 ppm	-0.0001 ppm	16.3277 ppm	0.0017 ppm	0.0006 ppm	-0.0010 ppm
Concentration per Run 2	4.7311 ppm	0.0298 ppm	0.0005 ppm	16.4027 ppm	-0.0001 ppm	0.0002 ppm	0.0017 ppm
Concentration per Run 3	4.6981 ppm	0.0299 ppm	0.0000 ppm	16.3900 ppm	0.0023 ppm	0.0012 ppm	-0.0016 ppm
Concentration RSD	0.7 %	0.5 %	283.0 %	0.2 %	96.0 %	76.0 %	671.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	1.0096 ppm	-0.0024 ppm	0.1263 ppm	0.0039 ppm	0.0008 ppm	0.0005 ppm
Concentration per Run 1	-0.0036 ppm	1.0180 ppm	-0.0018 ppm	0.1262 ppm	0.0037 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 2	-0.0015 ppm	1.0066 ppm	-0.0031 ppm	0.1262 ppm	0.0041 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run 3	-0.0028 ppm	1.0041 ppm	-0.0024 ppm	0.1266 ppm	0.0038 ppm	0.0012 ppm	0.0007 ppm
Concentration RSD	40.2 %	0.7 %	28.4 %	0.2 %	5.7 %	47.2 %	37.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	102.9276 %	101.5413 %	100.5806 %	102.2659 %	101.0739 %	102.1806 %
Concentration per Run 1	0.0009 ppm	102.3221 %	102.1167 %	100.5014 %	102.2559 %	101.5583 %	102.1739 %
Concentration per Run 2	0.0010 ppm	103.3969 %	100.8226 %	100.8430 %	102.4869 %	100.4238 %	102.4060 %
Concentration per Run 3	0.0008 ppm	103.0637 %	101.6846 %	100.3974 %	102.0548 %	101.2397 %	101.9619 %
Concentration RSD	8.6 %	0.5 %	0.6 %	0.2 %	0.2 %	0.6 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-04 WG1974842
Analysis started at: 9/24/2024 9:17:10 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.4633 ppm	0.0007 ppm	0.0158 ppm	0.0239 ppm	0.0000 ppm	24.5557 ppm
Concentration per Run 1	0.0003 ppm	0.4616 ppm	0.0004 ppm	0.0142 ppm	0.0237 ppm	0.0000 ppm	24.5930 ppm
Concentration per Run 2	0.0003 ppm	0.4707 ppm	0.0023 ppm	0.0164 ppm	0.0239 ppm	0.0000 ppm	24.4527 ppm
Concentration per Run 3	-0.0002 ppm	0.4576 ppm	-0.0006 ppm	0.0168 ppm	0.0240 ppm	0.0000 ppm	24.6214 ppm
Concentration RSD	250.1 %	1.5 %	203.7 %	9.1 %	0.6 %	60.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0005 ppm	0.0029 ppm	0.8459 ppm	1.5595 ppm	0.0038 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0029 ppm	0.8474 ppm	1.5791 ppm	0.0038 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0007 ppm	0.0027 ppm	0.8419 ppm	1.5353 ppm	0.0046 ppm
Concentration per Run 3	-0.0004 ppm	0.0000 ppm	0.0009 ppm	0.0031 ppm	0.8483 ppm	1.5641 ppm	0.0031 ppm
Concentration RSD	125.4 %	1,544.4 %	91.2 %	6.4 %	0.4 %	1.4 %	20.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.0795 ppm	0.0540 ppm	0.0003 ppm	17.5057 ppm	0.0015 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 1	5.0957 ppm	0.0539 ppm	0.0004 ppm	17.5416 ppm	0.0021 ppm	0.0014 ppm	-0.0016 ppm
Concentration per Run 2	5.0639 ppm	0.0538 ppm	0.0004 ppm	17.5222 ppm	0.0012 ppm	0.0014 ppm	-0.0017 ppm
Concentration per Run 3	5.0790 ppm	0.0543 ppm	0.0002 ppm	17.4534 ppm	0.0011 ppm	-0.0005 ppm	0.0026 ppm
Concentration RSD	0.3 %	0.5 %	35.3 %	0.3 %	36.3 %	140.5 %	961.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	1.3053 ppm	-0.0028 ppm	0.1325 ppm	0.0071 ppm	0.0005 ppm	0.0008 ppm
Concentration per Run 1	-0.0006 ppm	1.3046 ppm	-0.0021 ppm	0.1322 ppm	0.0069 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 2	0.0011 ppm	1.3080 ppm	-0.0028 ppm	0.1321 ppm	0.0071 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 3	0.0028 ppm	1.3033 ppm	-0.0036 ppm	0.1331 ppm	0.0074 ppm	0.0017 ppm	0.0007 ppm
Concentration RSD	151.8 %	0.2 %	26.6 %	0.4 %	3.5 %	230.4 %	7.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0048 ppm	103.4118 %	101.5093 %	103.9466 %	102.7775 %	101.5527 %	104.6276 %
Concentration per Run 1	0.0050 ppm	102.4970 %	102.0947 %	100.0924 %	102.4543 %	102.4048 %	102.1723 %
Concentration per Run 2	0.0047 ppm	104.3117 %	101.4991 %	101.2887 %	103.7316 %	101.1978 %	102.3183 %
Concentration per Run 3	0.0048 ppm	103.4268 %	100.9340 %	110.4588 %	102.1466 %	101.0555 %	109.3923 %
Concentration RSD	2.3 %	0.9 %	0.6 %	5.5 %	0.8 %	0.7 %	3.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-02 WG1974842
Analysis started at: 9/24/2024 9:21:03 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.2219 ppm	0.0028 ppm	0.0158 ppm	0.0208 ppm	0.0000 ppm	23.5196 ppm
Concentration per Run 1	0.0010 ppm	0.2213 ppm	0.0031 ppm	0.0165 ppm	0.0211 ppm	0.0000 ppm	23.4247 ppm
Concentration per Run 2	0.0003 ppm	0.2255 ppm	0.0026 ppm	0.0159 ppm	0.0206 ppm	0.0001 ppm	23.7105 ppm
Concentration per Run 3	0.0004 ppm	0.2188 ppm	0.0027 ppm	0.0151 ppm	0.0206 ppm	0.0000 ppm	23.4236 ppm
Concentration RSD	62.7 %	1.5 %	10.4 %	4.3 %	1.3 %	23.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0017 ppm	0.4128 ppm	1.4798 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0015 ppm	0.4135 ppm	1.4712 ppm	0.0017 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	-0.0004 ppm	0.0016 ppm	0.4071 ppm	1.4976 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0019 ppm	0.4177 ppm	1.4705 ppm	0.0021 ppm
Concentration RSD	170.7 %	320.9 %	106.2 %	10.1 %	1.3 %	1.0 %	34.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7672 ppm	0.0310 ppm	0.0000 ppm	16.3976 ppm	0.0009 ppm	0.0005 ppm	0.0009 ppm
Concentration per Run 1	4.7659 ppm	0.0308 ppm	0.0001 ppm	16.3324 ppm	0.0006 ppm	0.0016 ppm	-0.0024 ppm
Concentration per Run 2	4.7591 ppm	0.0312 ppm	-0.0005 ppm	16.4330 ppm	0.0010 ppm	-0.0006 ppm	0.0007 ppm
Concentration per Run 3	4.7765 ppm	0.0309 ppm	0.0004 ppm	16.4275 ppm	0.0011 ppm	0.0004 ppm	0.0045 ppm
Concentration RSD	0.2 %	0.6 %	7,831.3 %	0.3 %	25.6 %	248.4 %	363.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	1.0192 ppm	-0.0019 ppm	0.1266 ppm	0.0041 ppm	0.0015 ppm	0.0003 ppm
Concentration per Run 1	-0.0022 ppm	1.0234 ppm	-0.0026 ppm	0.1263 ppm	0.0046 ppm	0.0034 ppm	0.0003 ppm
Concentration per Run 2	-0.0038 ppm	1.0165 ppm	-0.0014 ppm	0.1265 ppm	0.0040 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0005 ppm	1.0176 ppm	-0.0017 ppm	0.1270 ppm	0.0037 ppm	0.0006 ppm	0.0004 ppm
Concentration RSD	116.8 %	0.4 %	32.9 %	0.3 %	11.2 %	113.0 %	14.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	102.1313 %	102.7918 %	100.4921 %	101.4998 %	102.4592 %	102.1516 %
Concentration per Run 1	0.0014 ppm	101.5546 %	103.4921 %	99.5817 %	101.5436 %	103.2509 %	101.4937 %
Concentration per Run 2	0.0011 ppm	102.5430 %	102.0396 %	101.6705 %	102.0090 %	101.7652 %	103.3096 %
Concentration per Run 3	0.0009 ppm	102.2961 %	102.8438 %	100.2242 %	100.9469 %	102.3613 %	101.6516 %
Concentration RSD	24.3 %	0.5 %	0.7 %	1.1 %	0.5 %	0.7 %	1.0 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-7 WG1974842
Analysis started at: 9/24/2024 9:24:55 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0507 ppm	2.1493 ppm	0.1199 ppm	0.9841 ppm	1.9607 ppm	0.0501 ppm	32.9141 ppm
Concentration per Run 1	0.0510 ppm	2.1536 ppm	0.1203 ppm	0.9930 ppm	1.9607 ppm	0.0500 ppm	32.8310 ppm
Concentration per Run 2	0.0506 ppm	2.1545 ppm	0.1196 ppm	0.9828 ppm	1.9588 ppm	0.0500 ppm	33.0112 ppm
Concentration per Run 3	0.0506 ppm	2.1398 ppm	0.1199 ppm	0.9765 ppm	1.9626 ppm	0.0502 ppm	32.9000 ppm
Concentration RSD	0.5 %	0.4 %	0.3 %	0.8 %	0.1 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0516 ppm	0.4889 ppm	0.1906 ppm	0.2452 ppm	1.3921 ppm	11.5201 ppm	0.0030 ppm
Concentration per Run 1	0.0519 ppm	0.4906 ppm	0.1915 ppm	0.2470 ppm	1.3908 ppm	11.5467 ppm	0.0043 ppm
Concentration per Run 2	0.0513 ppm	0.4880 ppm	0.1909 ppm	0.2447 ppm	1.3870 ppm	11.5050 ppm	0.0029 ppm
Concentration per Run 3	0.0517 ppm	0.4881 ppm	0.1894 ppm	0.2441 ppm	1.3985 ppm	11.5086 ppm	0.0018 ppm
Concentration RSD	0.6 %	0.3 %	0.6 %	0.6 %	0.4 %	0.2 %	42.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	14.3394 ppm	0.5224 ppm	0.8996 ppm	26.0938 ppm	0.4884 ppm	0.5170 ppm	0.4274 ppm
Concentration per Run 1	14.3817 ppm	0.5240 ppm	0.8947 ppm	25.9741 ppm	0.4925 ppm	0.5170 ppm	0.4243 ppm
Concentration per Run 2	14.3156 ppm	0.5210 ppm	0.8976 ppm	26.1535 ppm	0.4875 ppm	0.5167 ppm	0.4283 ppm
Concentration per Run 3	14.3208 ppm	0.5222 ppm	0.9066 ppm	26.1537 ppm	0.4851 ppm	0.5173 ppm	0.4296 ppm
Concentration RSD	0.3 %	0.3 %	0.7 %	0.4 %	0.8 %	0.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1190 ppm	1.6330 ppm	0.8937 ppm	1.0599 ppm	0.9787 ppm	0.1181 ppm	0.4883 ppm
Concentration per Run 1	0.1175 ppm	1.6389 ppm	0.8966 ppm	1.0606 ppm	0.9827 ppm	0.1194 ppm	0.4905 ppm
Concentration per Run 2	0.1185 ppm	1.6257 ppm	0.8905 ppm	1.0566 ppm	0.9781 ppm	0.1160 ppm	0.4874 ppm
Concentration per Run 3	0.1210 ppm	1.6344 ppm	0.8941 ppm	1.0625 ppm	0.9752 ppm	0.1187 ppm	0.4869 ppm
Concentration RSD	1.5 %	0.4 %	0.3 %	0.3 %	0.4 %	1.5 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4974 ppm	102.7694 %	103.7015 %	100.0542 %	100.5629 %	103.3627 %	100.9392 %
Concentration per Run 1	0.5020 ppm	102.0321 %	104.8597 %	99.3024 %	100.0108 %	103.9379 %	100.4982 %
Concentration per Run 2	0.4959 ppm	103.4532 %	102.6949 %	100.5400 %	101.2385 %	102.6942 %	101.2657 %
Concentration per Run 3	0.4944 ppm	102.8228 %	103.5500 %	100.3203 %	100.4395 %	103.4559 %	101.0537 %
Concentration RSD	0.8 %	0.7 %	1.1 %	0.7 %	0.6 %	0.6 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-8 WG1974842
Analysis started at: 9/24/2024 9:28:48 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.2221 ppm	0.0011 ppm	0.0161 ppm	0.0213 ppm	0.0000 ppm	23.7856 ppm
Concentration per Run 1	-0.0002 ppm	0.2203 ppm	0.0002 ppm	0.0181 ppm	0.0214 ppm	-0.0001 ppm	23.8321 ppm
Concentration per Run 2	0.0008 ppm	0.2200 ppm	0.0004 ppm	0.0166 ppm	0.0212 ppm	0.0001 ppm	23.8488 ppm
Concentration per Run 3	-0.0003 ppm	0.2260 ppm	0.0028 ppm	0.0136 ppm	0.0214 ppm	0.0001 ppm	23.6760 ppm
Concentration RSD	648.4 %	1.5 %	124.1 %	14.0 %	0.7 %	352.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0022 ppm	0.4129 ppm	1.4976 ppm	0.0027 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	-0.0004 ppm	0.0022 ppm	0.4146 ppm	1.5230 ppm	0.0034 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0019 ppm	0.4118 ppm	1.4933 ppm	0.0021 ppm
Concentration per Run 3	-0.0001 ppm	-0.0007 ppm	-0.0001 ppm	0.0026 ppm	0.4124 ppm	1.4763 ppm	0.0026 ppm
Concentration RSD	1,860.2 %	361.0 %	65.6 %	14.1 %	0.4 %	1.6 %	25.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8174 ppm	0.0313 ppm	0.0038 ppm	16.5865 ppm	0.0007 ppm	-0.0005 ppm	0.0046 ppm
Concentration per Run 1	4.8363 ppm	0.0310 ppm	0.0044 ppm	16.6096 ppm	0.0005 ppm	-0.0016 ppm	0.0064 ppm
Concentration per Run 2	4.8099 ppm	0.0315 ppm	0.0036 ppm	16.6031 ppm	0.0012 ppm	0.0004 ppm	0.0042 ppm
Concentration per Run 3	4.8059 ppm	0.0313 ppm	0.0035 ppm	16.5466 ppm	0.0004 ppm	-0.0004 ppm	0.0031 ppm
Concentration RSD	0.3 %	0.7 %	12.6 %	0.2 %	59.9 %	194.5 %	36.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	1.0255 ppm	0.0048 ppm	0.1278 ppm	0.0040 ppm	0.0010 ppm	0.0007 ppm
Concentration per Run 1	-0.0016 ppm	1.0303 ppm	0.0049 ppm	0.1276 ppm	0.0039 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 2	-0.0035 ppm	1.0249 ppm	0.0055 ppm	0.1275 ppm	0.0038 ppm	0.0008 ppm	0.0008 ppm
Concentration per Run 3	-0.0010 ppm	1.0213 ppm	0.0039 ppm	0.1281 ppm	0.0043 ppm	0.0015 ppm	0.0006 ppm
Concentration RSD	65.0 %	0.4 %	17.2 %	0.2 %	6.5 %	40.9 %	17.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	102.3575 %	102.0159 %	101.0804 %	101.6140 %	101.6127 %	102.4678 %
Concentration per Run 1	0.0013 ppm	102.2384 %	102.0871 %	100.8439 %	101.7950 %	102.2924 %	102.2241 %
Concentration per Run 2	0.0011 ppm	102.9405 %	102.8326 %	100.8672 %	102.0745 %	102.2613 %	102.0892 %
Concentration per Run 3	0.0014 ppm	101.8935 %	101.1280 %	101.5301 %	100.9724 %	100.2844 %	103.0901 %
Concentration RSD	12.0 %	0.5 %	0.8 %	0.4 %	0.6 %	1.1 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-9 WG1974842
Analysis started at: 9/24/2024 9:32:41 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0501 ppm	2.2516 ppm	0.1245 ppm	1.0586 ppm	2.0600 ppm	0.0525 ppm	33.7341 ppm
Concentration per Run 1	0.0502 ppm	2.2582 ppm	0.1253 ppm	1.0595 ppm	2.0510 ppm	0.0522 ppm	33.6292 ppm
Concentration per Run 2	0.0508 ppm	2.2454 ppm	0.1225 ppm	1.0625 ppm	2.0582 ppm	0.0524 ppm	33.7052 ppm
Concentration per Run 3	0.0492 ppm	2.2513 ppm	0.1258 ppm	1.0540 ppm	2.0709 ppm	0.0529 ppm	33.8681 ppm
Concentration RSD	1.6 %	0.3 %	1.5 %	0.4 %	0.5 %	0.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0535 ppm	0.5075 ppm	0.1991 ppm	0.2566 ppm	1.4491 ppm	12.3998 ppm	0.0033 ppm
Concentration per Run 1	0.0535 ppm	0.5099 ppm	0.1998 ppm	0.2569 ppm	1.4362 ppm	12.3733 ppm	0.0028 ppm
Concentration per Run 2	0.0538 ppm	0.5079 ppm	0.2001 ppm	0.2575 ppm	1.4560 ppm	12.3840 ppm	0.0041 ppm
Concentration per Run 3	0.0530 ppm	0.5048 ppm	0.1975 ppm	0.2554 ppm	1.4550 ppm	12.4421 ppm	0.0030 ppm
Concentration RSD	0.8 %	0.5 %	0.7 %	0.4 %	0.8 %	0.3 %	21.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.0715 ppm	0.5452 ppm	0.9693 ppm	27.0668 ppm	0.5075 ppm	0.5410 ppm	0.3646 ppm
Concentration per Run 1	15.0895 ppm	0.5430 ppm	0.9536 ppm	27.0249 ppm	0.5083 ppm	0.5436 ppm	0.3405 ppm
Concentration per Run 2	15.1255 ppm	0.5459 ppm	0.9722 ppm	27.0475 ppm	0.5066 ppm	0.5395 ppm	0.3750 ppm
Concentration per Run 3	14.9995 ppm	0.5467 ppm	0.9820 ppm	27.1280 ppm	0.5075 ppm	0.5398 ppm	0.3783 ppm
Concentration RSD	0.4 %	0.4 %	1.5 %	0.2 %	0.2 %	0.4 %	5.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1229 ppm	2.1057 ppm	0.9958 ppm	1.1375 ppm	1.0641 ppm	0.1238 ppm	0.5101 ppm
Concentration per Run 1	0.1232 ppm	2.1063 ppm	0.9933 ppm	1.1322 ppm	1.0697 ppm	0.1237 ppm	0.5117 ppm
Concentration per Run 2	0.1215 ppm	2.1133 ppm	0.9963 ppm	1.1369 ppm	1.0644 ppm	0.1261 ppm	0.5100 ppm
Concentration per Run 3	0.1240 ppm	2.0976 ppm	0.9978 ppm	1.1434 ppm	1.0582 ppm	0.1217 ppm	0.5086 ppm
Concentration RSD	1.1 %	0.4 %	0.2 %	0.5 %	0.5 %	1.8 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5177 ppm	103.7330 %	103.0618 %	100.7353 %	101.5389 %	102.2254 %	102.0043 %
Concentration per Run 1	0.5196 ppm	103.5940 %	103.0152 %	100.9457 %	101.7796 %	102.3651 %	102.3495 %
Concentration per Run 2	0.5156 ppm	103.8473 %	103.4687 %	100.5685 %	101.5244 %	102.4636 %	101.8772 %
Concentration per Run 3	0.5179 ppm	103.7577 %	102.7016 %	100.6916 %	101.3128 %	101.8474 %	101.7863 %
Concentration RSD	0.4 %	0.1 %	0.4 %	0.2 %	0.2 %	0.3 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974842-10D5 WG1974842
Analysis started at: 9/24/2024 9:36:35 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0436 ppm	0.0012 ppm	0.0034 ppm	0.0042 ppm	0.0000 ppm	4.7102 ppm
Concentration per Run 1	0.0001 ppm	0.0374 ppm	0.0006 ppm	0.0030 ppm	0.0042 ppm	-0.0001 ppm	4.6852 ppm
Concentration per Run 2	0.0000 ppm	0.0502 ppm	0.0027 ppm	0.0048 ppm	0.0041 ppm	0.0000 ppm	4.7178 ppm
Concentration per Run 3	0.0006 ppm	0.0433 ppm	0.0004 ppm	0.0024 ppm	0.0043 ppm	0.0000 ppm	4.7276 ppm
Concentration RSD	148.6 %	14.7 %	103.1 %	36.2 %	2.5 %	44.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0874 ppm	0.2993 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	-0.0001 ppm	0.0887 ppm	0.2914 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	-0.0010 ppm	0.0000 ppm	-0.0001 ppm	0.0869 ppm	0.2950 ppm	0.0021 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0866 ppm	0.3114 ppm	-0.0014 ppm
Concentration RSD	317.2 %	99.2 %	100.6 %	570.0 %	1.3 %	3.6 %	282.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.9495 ppm	0.0063 ppm	0.0048 ppm	3.3068 ppm	0.0005 ppm	-0.0002 ppm	0.0111 ppm
Concentration per Run 1	0.9564 ppm	0.0065 ppm	0.0050 ppm	3.2953 ppm	0.0009 ppm	0.0001 ppm	0.0091 ppm
Concentration per Run 2	0.9517 ppm	0.0062 ppm	0.0046 ppm	3.3155 ppm	-0.0002 ppm	0.0001 ppm	0.0101 ppm
Concentration per Run 3	0.9405 ppm	0.0063 ppm	0.0046 ppm	3.3095 ppm	0.0008 ppm	-0.0009 ppm	0.0142 ppm
Concentration RSD	0.9 %	2.6 %	5.1 %	0.3 %	121.8 %	276.5 %	24.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.2003 ppm	0.0154 ppm	0.0255 ppm	0.0013 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	-0.0013 ppm	0.2046 ppm	0.0151 ppm	0.0255 ppm	0.0011 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.1989 ppm	0.0166 ppm	0.0255 ppm	0.0016 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 3	-0.0004 ppm	0.1974 ppm	0.0144 ppm	0.0254 ppm	0.0011 ppm	0.0005 ppm	0.0001 ppm
Concentration RSD	182.0 %	1.9 %	7.4 %	0.2 %	22.1 %	137.0 %	738.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	104.3304 %	103.2650 %	103.5554 %	102.2933 %	102.5403 %	103.3624 %
Concentration per Run 1	-0.0003 ppm	103.7095 %	103.4456 %	104.6335 %	101.7001 %	102.7276 %	104.6020 %
Concentration per Run 2	-0.0008 ppm	104.4059 %	102.8973 %	102.8910 %	102.3847 %	102.0932 %	102.3341 %
Concentration per Run 3	-0.0005 ppm	104.8760 %	103.4520 %	103.1416 %	102.7951 %	102.8000 %	103.1512 %
Concentration RSD	50.0 %	0.6 %	0.3 %	0.9 %	0.5 %	0.4 %	1.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 9:40:28 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5006 ppm	0.4746 ppm	0.4790 ppm	0.4876 ppm	0.4884 ppm	0.5002 ppm	0.4790 ppm
Concentration per Run 1	0.5017 ppm	0.4722 ppm	0.4804 ppm	0.4913 ppm	0.4915 ppm	0.5030 ppm	0.4784 ppm
Concentration per Run 2	0.5003 ppm	0.4784 ppm	0.4762 ppm	0.4853 ppm	0.4856 ppm	0.5001 ppm	0.4754 ppm
Concentration per Run 3	0.4999 ppm	0.4731 ppm	0.4804 ppm	0.4863 ppm	0.4882 ppm	0.4975 ppm	0.4834 ppm
Recovery Percentage 1	100.128 %	94.917 %	95.798 %	97.529 %	97.688 %	100.039 %	95.810 %
Concentration RSD	0.2 %	0.7 %	0.5 %	0.7 %	0.6 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4869 ppm	0.5009 ppm	0.4795 ppm	0.4850 ppm	0.4969 ppm	5.0724 ppm	0.4878 ppm
Concentration per Run 1	0.4911 ppm	0.5028 ppm	0.4830 ppm	0.4861 ppm	0.4999 ppm	5.0923 ppm	0.4901 ppm
Concentration per Run 2	0.4819 ppm	0.4998 ppm	0.4757 ppm	0.4872 ppm	0.4939 ppm	5.0630 ppm	0.4837 ppm
Concentration per Run 3	0.4878 ppm	0.5001 ppm	0.4796 ppm	0.4818 ppm	0.4970 ppm	5.0620 ppm	0.4898 ppm
Recovery Percentage 1	97.387 %	100.185 %	95.891 %	97.004 %	99.387 %	101.448 %	97.570 %
Concentration RSD	1.0 %	0.3 %	0.8 %	0.6 %	0.6 %	0.3 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4790 ppm	0.4806 ppm	0.4856 ppm	9.7512 ppm	0.4994 ppm	0.4905 ppm	0.5018 ppm
Concentration per Run 1	0.4799 ppm	0.4803 ppm	0.4828 ppm	9.7754 ppm	0.5041 ppm	0.4907 ppm	0.5069 ppm
Concentration per Run 2	0.4781 ppm	0.4795 ppm	0.4848 ppm	9.7338 ppm	0.4952 ppm	0.4922 ppm	0.4987 ppm
Concentration per Run 3	0.4789 ppm	0.4818 ppm	0.4892 ppm	9.7445 ppm	0.4990 ppm	0.4886 ppm	0.4998 ppm
Recovery Percentage 1	95.792 %	96.114 %	97.121 %	97.512 %	99.884 %	98.102 %	100.358 %
Concentration RSD	0.2 %	0.2 %	0.7 %	0.2 %	0.9 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4895 ppm	5.2087 ppm	0.4799 ppm	0.4677 ppm	0.4896 ppm	0.4947 ppm	0.4777 ppm
Concentration per Run 1	0.4888 ppm	5.2015 ppm	0.4805 ppm	0.4705 ppm	0.4914 ppm	0.4935 ppm	0.4785 ppm
Concentration per Run 2	0.4866 ppm	5.2109 ppm	0.4782 ppm	0.4649 ppm	0.4878 ppm	0.4956 ppm	0.4775 ppm
Concentration per Run 3	0.4930 ppm	5.2137 ppm	0.4809 ppm	0.4676 ppm	0.4897 ppm	0.4951 ppm	0.4770 ppm
Recovery Percentage 1	97.893 %	99.214 %	95.976 %	93.532 %	97.922 %	98.943 %	95.537 %
Concentration RSD	0.7 %	0.1 %	0.3 %	0.6 %	0.4 %	0.2 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4979 ppm	104.6509 %	103.9226 %	103.0734 %	102.1303 %	102.9189 %	102.9610 %
Concentration per Run 1	0.4999 ppm	103.9333 %	102.9224 %	103.3534 %	101.5799 %	102.3037 %	103.2915 %
Concentration per Run 2	0.4951 ppm	105.6324 %	104.5573 %	103.0771 %	103.1697 %	102.9493 %	103.0412 %
Concentration per Run 3	0.4988 ppm	104.3868 %	104.2879 %	102.7896 %	101.6414 %	103.5036 %	102.5503 %
Recovery Percentage 1	99.583 %						
Concentration RSD	0.5 %	0.8 %	0.8 %	0.3 %	0.9 %	0.6 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 9:44:22 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0013 ppm	0.0014 ppm	-0.0001 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 1	-0.0002 ppm	0.0030 ppm	0.0003 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0029 ppm
Concentration per Run 2	0.0004 ppm	-0.0115 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 3	-0.0006 ppm	0.0091 ppm	0.0036 ppm	0.0021 ppm	-0.0001 ppm	0.0000 ppm	-0.0022 ppm
Recovery Percentage 1	-2.120 %	0.184 %	26.703 %	4.640 %	-1.422 %	0.477 %	-1.943 %
Concentration RSD	346.5 %	5,767.7 %	149.8 %	67.7 %	104.7 %	123.3 %	56.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0002 ppm	-0.0001 ppm	-0.0005 ppm	0.0029 ppm	-0.0015 ppm	0.0006 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0002 ppm	-0.0004 ppm	0.0035 ppm	0.0056 ppm	0.0008 ppm
Concentration per Run 2	0.0003 ppm	-0.0002 ppm	0.0000 ppm	-0.0005 ppm	0.0036 ppm	-0.0193 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	-0.0004 ppm	-0.0005 ppm	0.0015 ppm	0.0093 ppm	0.0004 ppm
Recovery Percentage 1	3.771 %	-0.994 %	-1.053 %	-4.673 %	5.732 %	-0.058 %	11.462 %
Concentration RSD	41.1 %	231.3 %	296.5 %	20.4 %	41.2 %	1,064.4 %	29.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0015 ppm	-0.0001 ppm	0.0014 ppm	-0.0014 ppm	0.0008 ppm	-0.0013 ppm	0.0047 ppm
Concentration per Run 1	-0.0027 ppm	-0.0001 ppm	0.0014 ppm	-0.0007 ppm	0.0008 ppm	-0.0014 ppm	0.0064 ppm
Concentration per Run 2	-0.0014 ppm	-0.0001 ppm	0.0011 ppm	-0.0004 ppm	0.0010 ppm	-0.0017 ppm	0.0058 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0017 ppm	-0.0032 ppm	0.0006 ppm	-0.0009 ppm	0.0020 ppm
Recovery Percentage 1	-1.454 %	-0.744 %	2.809 %	-0.070 %	3.246 %	-13.144 %	9.448 %
Concentration RSD	83.5 %	82.5 %	21.1 %	108.9 %	21.8 %	31.5 %	49.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0020 ppm	-0.0040 ppm	0.0008 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.0005 ppm	-0.0048 ppm	0.0007 ppm	0.0001 ppm	0.0007 ppm	0.0009 ppm	-0.0001 ppm
Concentration per Run 2	-0.0026 ppm	-0.0048 ppm	0.0005 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0040 ppm	-0.0025 ppm	0.0012 ppm	0.0000 ppm	0.0006 ppm	0.0003 ppm	-0.0003 ppm
Recovery Percentage 1	-20.087 %	-0.809 %	1.596 %	0.527 %	5.290 %	1.256 %	-1.402 %
Concentration RSD	114.6 %	32.5 %	42.7 %	89.0 %	45.3 %	270.6 %	97.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0015 ppm	103.7284 %	102.4242 %	102.5526 %	102.8668 %	102.4391 %	103.2696 %
Concentration per Run 1	-0.0010 ppm	103.9195 %	102.3169 %	102.2685 %	103.1779 %	102.2306 %	103.1126 %
Concentration per Run 2	-0.0017 ppm	103.5665 %	103.0761 %	102.5616 %	102.6972 %	102.9300 %	103.0868 %
Concentration per Run 3	-0.0016 ppm	103.6994 %	101.8796 %	102.8276 %	102.7252 %	102.1566 %	103.6095 %
Recovery Percentage 1	-29.041 %						
Concentration RSD	24.2 %	0.2 %	0.6 %	0.3 %	0.3 %	0.4 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: LDR 750 Ca pass
Analysis started at: 9/24/2024 10:00:44 AM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0018 ppm	0.0028 ppm	0.0027 ppm	0.0005 ppm	0.0001 ppm	673.7310 ppm
Concentration per Run 1	0.0000 ppm	-0.0092 ppm	0.0030 ppm	0.0031 ppm	0.0004 ppm	0.0001 ppm	673.1937 ppm
Concentration per Run 2	-0.0001 ppm	0.0087 ppm	-0.0005 ppm	0.0028 ppm	0.0006 ppm	0.0000 ppm	672.1933 ppm
Concentration per Run 3	-0.0001 ppm	0.0058 ppm	0.0060 ppm	0.0022 ppm	0.0005 ppm	0.0001 ppm	675.8061 ppm
Concentration RSD	126.0 %	540.6 %	115.4 %	16.9 %	22.4 %	48.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0006 ppm	0.0002 ppm	0.0036 ppm	0.0116 ppm	-0.0021 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	-0.0009 ppm	0.0002 ppm	0.0038 ppm	0.0298 ppm	-0.0011 ppm
Concentration per Run 2	-0.0002 ppm	0.0004 ppm	-0.0007 ppm	0.0002 ppm	0.0055 ppm	0.0107 ppm	-0.0021 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0002 ppm	0.0015 ppm	-0.0057 ppm	-0.0032 ppm
Concentration RSD	59.5 %	207.0 %	78.8 %	3.4 %	55.9 %	152.8 %	46.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0043 ppm	0.0003 ppm	0.0010 ppm	0.0134 ppm	0.0005 ppm	0.0002 ppm	0.0022 ppm
Concentration per Run 1	0.0040 ppm	0.0002 ppm	0.0009 ppm	0.0174 ppm	0.0016 ppm	-0.0001 ppm	0.0033 ppm
Concentration per Run 2	0.0062 ppm	0.0003 ppm	0.0010 ppm	0.0113 ppm	0.0000 ppm	0.0006 ppm	0.0035 ppm
Concentration per Run 3	0.0027 ppm	0.0003 ppm	0.0012 ppm	0.0115 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm
Concentration RSD	40.1 %	25.6 %	15.9 %	25.9 %	213.9 %	158.4 %	87.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0029 ppm	0.0058 ppm	-0.0005 ppm	-0.0010 ppm	0.0014 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0043 ppm	0.0071 ppm	-0.0006 ppm	-0.0009 ppm	0.0012 ppm	0.0004 ppm	0.0001 ppm
Concentration per Run 2	-0.0008 ppm	0.0076 ppm	-0.0001 ppm	-0.0011 ppm	0.0014 ppm	-0.0025 ppm	0.0004 ppm
Concentration per Run 3	-0.0037 ppm	0.0026 ppm	-0.0007 ppm	-0.0011 ppm	0.0015 ppm	0.0012 ppm	0.0001 ppm
Concentration RSD	62.9 %	47.2 %	65.3 %	15.0 %	11.9 %	634.1 %	112.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	95.2932 %	103.3665 %	86.2238 %	92.8446 %	102.6305 %	93.3435 %
Concentration per Run 1	0.0008 ppm	95.2366 %	102.9827 %	86.4254 %	92.6423 %	102.4096 %	93.1911 %
Concentration per Run 2	0.0007 ppm	95.5567 %	104.7380 %	85.8221 %	93.2525 %	103.9098 %	93.1181 %
Concentration per Run 3	0.0006 ppm	95.0864 %	102.3787 %	86.4240 %	92.6391 %	101.5720 %	93.7214 %
Concentration RSD	14.9 %	0.3 %	1.2 %	0.4 %	0.4 %	1.2 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: LLOQ 0.005ppm As waters
Analysis started at: 9/24/2024 10:04:53 AM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0060 ppm	0.0112 ppm	0.0060 ppm	0.0048 ppm	0.0050 ppm	0.0052 ppm	0.0231 ppm
Concentration per Run 1	0.0060 ppm	0.0114 ppm	0.0070 ppm	0.0043 ppm	0.0049 ppm	0.0052 ppm	0.0292 ppm
Concentration per Run 2	0.0063 ppm	0.0179 ppm	0.0063 ppm	0.0052 ppm	0.0050 ppm	0.0052 ppm	0.0184 ppm
Concentration per Run 3	0.0057 ppm	0.0041 ppm	0.0046 ppm	0.0050 ppm	0.0050 ppm	0.0052 ppm	0.0218 ppm
Recovery Percentage 1	119.647 %	0.000 %	119.172 %	0.000 %	0.000 %	103.765 %	0.000 %
Concentration RSD	5.2 %	61.8 %	21.0 %	9.6 %	1.3 %	0.5 %	24.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0051 ppm	0.0052 ppm	0.0049 ppm	0.0050 ppm	0.0095 ppm	0.0640 ppm	0.0062 ppm
Concentration per Run 1	0.0052 ppm	0.0057 ppm	0.0052 ppm	0.0053 ppm	0.0100 ppm	0.0727 ppm	0.0063 ppm
Concentration per Run 2	0.0052 ppm	0.0050 ppm	0.0045 ppm	0.0054 ppm	0.0079 ppm	0.0545 ppm	0.0068 ppm
Concentration per Run 3	0.0050 ppm	0.0050 ppm	0.0050 ppm	0.0042 ppm	0.0104 ppm	0.0649 ppm	0.0057 ppm
Recovery Percentage 1	102.061 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	2.5 %	7.1 %	7.6 %	13.0 %	14.1 %	14.3 %	8.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0055 ppm	0.0051 ppm	0.0049 ppm	0.1044 ppm	0.0060 ppm	0.0049 ppm	0.0050 ppm
Concentration per Run 1	0.0076 ppm	0.0048 ppm	0.0046 ppm	0.1078 ppm	0.0061 ppm	0.0047 ppm	0.0081 ppm
Concentration per Run 2	0.0065 ppm	0.0052 ppm	0.0047 ppm	0.0973 ppm	0.0058 ppm	0.0054 ppm	0.0030 ppm
Concentration per Run 3	0.0025 ppm	0.0052 ppm	0.0054 ppm	0.1081 ppm	0.0060 ppm	0.0045 ppm	0.0037 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	48.4 %	4.2 %	7.9 %	5.9 %	2.3 %	9.8 %	55.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0052 ppm	0.0529 ppm	0.0041 ppm	0.0052 ppm	0.0054 ppm	0.0058 ppm	0.0046 ppm
Concentration per Run 1	0.0066 ppm	0.0505 ppm	0.0034 ppm	0.0053 ppm	0.0054 ppm	0.0050 ppm	0.0048 ppm
Concentration per Run 2	0.0052 ppm	0.0539 ppm	0.0038 ppm	0.0050 ppm	0.0056 ppm	0.0064 ppm	0.0046 ppm
Concentration per Run 3	0.0039 ppm	0.0541 ppm	0.0052 ppm	0.0052 ppm	0.0053 ppm	0.0061 ppm	0.0046 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	25.8 %	3.8 %	23.7 %	3.6 %	3.0 %	13.3 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0040 ppm	104.6553 %	103.0442 %	104.0474 %	103.6708 %	103.2217 %	104.0876 %
Concentration per Run 1	0.0041 ppm	104.6164 %	102.5643 %	104.4151 %	103.6041 %	102.9384 %	104.6109 %
Concentration per Run 2	0.0039 ppm	104.6853 %	103.6649 %	103.2643 %	103.5647 %	104.1300 %	103.4330 %
Concentration per Run 3	0.0040 ppm	104.6641 %	102.9034 %	104.4629 %	103.8436 %	102.5967 %	104.2189 %
Recovery Percentage 1	80.154 %						
Concentration RSD	2.5 %	0.0 %	0.5 %	0.7 %	0.1 %	0.8 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-05 WG1974842
Analysis started at: 9/24/2024 10:08:48 AM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.2260 ppm	0.0011 ppm	0.0153 ppm	0.0211 ppm	0.0000 ppm	23.3813 ppm
Concentration per Run 1	0.0002 ppm	0.2363 ppm	-0.0006 ppm	0.0174 ppm	0.0210 ppm	0.0000 ppm	23.3980 ppm
Concentration per Run 2	0.0002 ppm	0.2291 ppm	0.0026 ppm	0.0156 ppm	0.0211 ppm	0.0000 ppm	23.3984 ppm
Concentration per Run 3	0.0007 ppm	0.2126 ppm	0.0014 ppm	0.0130 ppm	0.0213 ppm	0.0000 ppm	23.3474 ppm
Concentration RSD	77.6 %	5.4 %	139.0 %	14.6 %	0.6 %	956.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0021 ppm	0.4237 ppm	1.4876 ppm	0.0021 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0023 ppm	0.4208 ppm	1.5007 ppm	0.0031 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0002 ppm	0.0020 ppm	0.4256 ppm	1.4955 ppm	0.0027 ppm
Concentration per Run 3	-0.0002 ppm	-0.0007 ppm	-0.0001 ppm	0.0020 ppm	0.4248 ppm	1.4667 ppm	0.0004 ppm
Concentration RSD	109.3 %	76.3 %	727.9 %	8.4 %	0.6 %	1.2 %	72.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7910 ppm	0.0318 ppm	-0.0002 ppm	16.4887 ppm	0.0013 ppm	0.0010 ppm	-0.0011 ppm
Concentration per Run 1	4.8092 ppm	0.0320 ppm	-0.0001 ppm	16.5244 ppm	0.0018 ppm	0.0009 ppm	0.0007 ppm
Concentration per Run 2	4.7708 ppm	0.0318 ppm	-0.0004 ppm	16.5364 ppm	0.0004 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 3	4.7930 ppm	0.0318 ppm	-0.0001 ppm	16.4052 ppm	0.0015 ppm	0.0020 ppm	-0.0050 ppm
Concentration RSD	0.4 %	0.4 %	91.0 %	0.4 %	60.4 %	84.0 %	321.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	1.0082 ppm	-0.0021 ppm	0.1268 ppm	0.0043 ppm	0.0021 ppm	0.0004 ppm
Concentration per Run 1	-0.0021 ppm	1.0090 ppm	-0.0024 ppm	0.1265 ppm	0.0039 ppm	0.0024 ppm	0.0004 ppm
Concentration per Run 2	-0.0045 ppm	1.0060 ppm	-0.0026 ppm	0.1263 ppm	0.0045 ppm	0.0030 ppm	0.0007 ppm
Concentration per Run 3	-0.0008 ppm	1.0095 ppm	-0.0014 ppm	0.1274 ppm	0.0045 ppm	0.0011 ppm	0.0002 ppm
Concentration RSD	76.8 %	0.2 %	28.6 %	0.5 %	7.4 %	45.9 %	48.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0034 ppm	102.2672 %	101.8962 %	101.1171 %	101.4266 %	101.0586 %	102.6642 %
Concentration per Run 1	0.0036 ppm	102.3160 %	102.6663 %	101.0382 %	102.0239 %	102.5941 %	102.6065 %
Concentration per Run 2	0.0034 ppm	102.9839 %	101.7975 %	101.8080 %	102.1036 %	101.1101 %	103.6109 %
Concentration per Run 3	0.0034 ppm	101.5015 %	101.2249 %	100.5050 %	100.1524 %	99.4716 %	101.7751 %
Concentration RSD	3.9 %	0.7 %	0.7 %	0.6 %	1.1 %	1.5 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-06 WG1974842
Analysis started at: 9/24/2024 10:12:41 AM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.1571 ppm	0.0006 ppm	0.0141 ppm	0.0208 ppm	0.0000 ppm	23.8653 ppm
Concentration per Run 1	0.0007 ppm	0.1568 ppm	-0.0023 ppm	0.0140 ppm	0.0209 ppm	0.0000 ppm	23.6643 ppm
Concentration per Run 2	-0.0002 ppm	0.1598 ppm	0.0016 ppm	0.0141 ppm	0.0207 ppm	0.0000 ppm	23.8649 ppm
Concentration per Run 3	0.0001 ppm	0.1548 ppm	0.0025 ppm	0.0140 ppm	0.0209 ppm	0.0000 ppm	24.0667 ppm
Concentration RSD	241.7 %	1.6 %	428.5 %	0.5 %	0.6 %	2,243.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0018 ppm	0.2798 ppm	1.5028 ppm	0.0034 ppm
Concentration per Run 1	-0.0002 ppm	-0.0008 ppm	-0.0002 ppm	0.0018 ppm	0.2794 ppm	1.4906 ppm	0.0044 ppm
Concentration per Run 2	-0.0003 ppm	-0.0003 ppm	-0.0003 ppm	0.0021 ppm	0.2814 ppm	1.5186 ppm	0.0033 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0017 ppm	0.2786 ppm	1.4994 ppm	0.0024 ppm
Concentration RSD	89.2 %	176.9 %	328.6 %	11.9 %	0.5 %	1.0 %	30.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8220 ppm	0.0240 ppm	0.0000 ppm	16.8854 ppm	0.0003 ppm	0.0003 ppm	-0.0014 ppm
Concentration per Run 1	4.8562 ppm	0.0240 ppm	0.0000 ppm	16.7447 ppm	0.0006 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run 2	4.8188 ppm	0.0241 ppm	-0.0006 ppm	16.9657 ppm	-0.0007 ppm	-0.0006 ppm	-0.0003 ppm
Concentration per Run 3	4.7909 ppm	0.0239 ppm	0.0007 ppm	16.9459 ppm	0.0011 ppm	0.0012 ppm	-0.0035 ppm
Concentration RSD	0.7 %	0.4 %	2,272.4 %	0.7 %	284.2 %	280.2 %	135.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.9247 ppm	-0.0025 ppm	0.1287 ppm	0.0028 ppm	0.0019 ppm	0.0005 ppm
Concentration per Run 1	0.0036 ppm	0.9333 ppm	-0.0009 ppm	0.1280 ppm	0.0032 ppm	0.0018 ppm	0.0003 ppm
Concentration per Run 2	0.0012 ppm	0.9281 ppm	-0.0033 ppm	0.1293 ppm	0.0028 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 3	-0.0029 ppm	0.9127 ppm	-0.0031 ppm	0.1288 ppm	0.0024 ppm	0.0036 ppm	0.0007 ppm
Concentration RSD	526.6 %	1.2 %	53.2 %	0.5 %	14.7 %	91.6 %	38.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	102.5574 %	102.0768 %	100.7291 %	101.6570 %	101.9328 %	101.9954 %
Concentration per Run 1	0.0013 ppm	101.3258 %	103.8039 %	100.9446 %	100.8661 %	103.3639 %	102.2372 %
Concentration per Run 2	0.0011 ppm	103.1337 %	101.6462 %	100.6954 %	102.3057 %	101.9426 %	101.6623 %
Concentration per Run 3	0.0012 ppm	103.2128 %	100.7802 %	100.5473 %	101.7993 %	100.4918 %	102.0866 %
Concentration RSD	9.6 %	1.0 %	1.5 %	0.2 %	0.7 %	1.4 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454463-07 WG1974842
Analysis started at: 9/24/2024 10:16:33 AM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0075 ppm	0.0013 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0511 ppm
Concentration per Run 1	0.0001 ppm	0.0040 ppm	-0.0023 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0526 ppm
Concentration per Run 2	0.0006 ppm	0.0068 ppm	0.0014 ppm	0.0025 ppm	0.0001 ppm	0.0000 ppm	0.0511 ppm
Concentration per Run 3	0.0003 ppm	0.0116 ppm	0.0050 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	0.0495 ppm
Concentration RSD	85.3 %	51.1 %	271.9 %	161.2 %	268.8 %	244.5 %	3.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	-0.0002 ppm	0.0030 ppm	-0.0183 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	-0.0007 ppm	0.0020 ppm	0.0014 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	-0.0001 ppm	0.0026 ppm	-0.0257 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0043 ppm	-0.0305 ppm	0.0012 ppm
Concentration RSD	278.8 %	64.1 %	112.6 %	187.5 %	38.6 %	94.1 %	85.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0092 ppm	0.0000 ppm	0.0000 ppm	0.0617 ppm	0.0004 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run 1	0.0072 ppm	0.0001 ppm	-0.0001 ppm	0.0608 ppm	-0.0008 ppm	0.0004 ppm	0.0041 ppm
Concentration per Run 2	0.0115 ppm	0.0001 ppm	0.0000 ppm	0.0637 ppm	0.0007 ppm	0.0008 ppm	-0.0007 ppm
Concentration per Run 3	0.0089 ppm	-0.0001 ppm	0.0000 ppm	0.0606 ppm	0.0012 ppm	-0.0009 ppm	0.0019 ppm
Concentration RSD	23.2 %	744.5 %	231.0 %	2.8 %	276.9 %	904.4 %	133.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	0.0031 ppm	-0.0028 ppm	0.0005 ppm	0.0005 ppm	0.0005 ppm	-0.0003 ppm
Concentration per Run 1	-0.0055 ppm	0.0053 ppm	-0.0022 ppm	0.0004 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0026 ppm	0.0049 ppm	-0.0027 ppm	0.0007 ppm	0.0005 ppm	0.0008 ppm	-0.0004 ppm
Concentration per Run 3	-0.0013 ppm	-0.0008 ppm	-0.0035 ppm	0.0005 ppm	0.0004 ppm	0.0008 ppm	-0.0006 ppm
Concentration RSD	283.5 %	109.9 %	23.2 %	20.7 %	27.7 %	90.4 %	86.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	102.9753 %	101.7967 %	103.5266 %	102.8999 %	101.8811 %	103.9113 %
Concentration per Run 1	-0.0004 ppm	101.6224 %	102.4344 %	103.5004 %	102.2613 %	102.7678 %	104.3621 %
Concentration per Run 2	-0.0006 ppm	104.1099 %	101.4017 %	102.4988 %	103.8185 %	101.2613 %	102.6993 %
Concentration per Run 3	-0.0007 ppm	103.1937 %	101.5540 %	104.5807 %	102.6200 %	101.6140 %	104.6724 %
Concentration RSD	21.2 %	1.2 %	0.5 %	1.0 %	0.8 %	0.8 %	1.0 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453276-01 WG1974865
Analysis started at: 9/24/2024 10:20:26 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0015 ppm	0.0005 ppm	0.2684 ppm	0.0728 ppm	0.0000 ppm	93.6335 ppm
Concentration per Run 1	-0.0002 ppm	0.0093 ppm	0.0003 ppm	0.2722 ppm	0.0727 ppm	0.0000 ppm	93.5930 ppm
Concentration per Run 2	0.0001 ppm	-0.0025 ppm	-0.0007 ppm	0.2672 ppm	0.0729 ppm	0.0001 ppm	93.9463 ppm
Concentration per Run 3	-0.0004 ppm	-0.0023 ppm	0.0019 ppm	0.2658 ppm	0.0728 ppm	0.0000 ppm	93.3612 ppm
Concentration RSD	153.4 %	447.9 %	264.7 %	1.3 %	0.1 %	67.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0007 ppm	-0.0008 ppm	0.0278 ppm	0.0057 ppm	1.0020 ppm	0.0122 ppm
Concentration per Run 1	-0.0001 ppm	-0.0004 ppm	-0.0010 ppm	0.0279 ppm	0.0053 ppm	1.0429 ppm	0.0130 ppm
Concentration per Run 2	-0.0004 ppm	-0.0006 ppm	-0.0009 ppm	0.0278 ppm	0.0051 ppm	0.9812 ppm	0.0129 ppm
Concentration per Run 3	-0.0002 ppm	-0.0011 ppm	-0.0006 ppm	0.0276 ppm	0.0068 ppm	0.9820 ppm	0.0106 ppm
Concentration RSD	62.5 %	52.3 %	28.4 %	0.6 %	16.0 %	3.5 %	10.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.3196 ppm	0.0002 ppm	-0.0001 ppm	21.3404 ppm	0.0000 ppm	0.0019 ppm	0.0014 ppm
Concentration per Run 1	32.4344 ppm	0.0001 ppm	0.0003 ppm	21.3014 ppm	0.0001 ppm	0.0015 ppm	-0.0023 ppm
Concentration per Run 2	32.1290 ppm	0.0003 ppm	-0.0003 ppm	21.4303 ppm	0.0002 ppm	0.0011 ppm	0.0025 ppm
Concentration per Run 3	32.3956 ppm	0.0001 ppm	-0.0002 ppm	21.2894 ppm	-0.0003 ppm	0.0031 ppm	0.0040 ppm
Concentration RSD	0.5 %	76.0 %	349.3 %	0.4 %	1,248.5 %	57.1 %	239.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	10.2177 ppm	-0.0030 ppm	0.3122 ppm	0.0003 ppm	0.0011 ppm	0.0020 ppm
Concentration per Run 1	-0.0017 ppm	10.2536 ppm	-0.0038 ppm	0.3126 ppm	0.0003 ppm	0.0014 ppm	0.0021 ppm
Concentration per Run 2	-0.0029 ppm	10.1643 ppm	-0.0033 ppm	0.3118 ppm	0.0005 ppm	0.0003 ppm	0.0019 ppm
Concentration per Run 3	-0.0040 ppm	10.2353 ppm	-0.0019 ppm	0.3123 ppm	0.0001 ppm	0.0018 ppm	0.0019 ppm
Concentration RSD	41.1 %	0.5 %	31.4 %	0.1 %	56.8 %	69.1 %	5.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0355 ppm	100.9121 %	101.9776 %	96.1802 %	98.9997 %	101.4960 %	99.6050 %
Concentration per Run 1	0.0364 ppm	100.6807 %	101.7659 %	96.4960 %	99.2435 %	101.3979 %	99.7722 %
Concentration per Run 2	0.0354 ppm	101.0733 %	102.0636 %	95.3491 %	99.0543 %	101.6728 %	98.6403 %
Concentration per Run 3	0.0349 ppm	100.9822 %	102.1033 %	96.6956 %	98.7013 %	101.4172 %	100.4025 %
Concentration RSD	2.1 %	0.2 %	0.2 %	0.8 %	0.3 %	0.2 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-3 WG1974865
Analysis started at: 9/24/2024 10:24:20 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0512 ppm	1.9699 ppm	0.1250 ppm	1.2655 ppm	2.0690 ppm	0.0509 ppm	101.6614 ppm
Concentration per Run 1	0.0516 ppm	1.9824 ppm	0.1257 ppm	1.2681 ppm	2.0687 ppm	0.0509 ppm	102.0081 ppm
Concentration per Run 2	0.0507 ppm	1.9815 ppm	0.1250 ppm	1.2677 ppm	2.0712 ppm	0.0510 ppm	101.6799 ppm
Concentration per Run 3	0.0514 ppm	1.9459 ppm	0.1244 ppm	1.2608 ppm	2.0672 ppm	0.0508 ppm	101.2962 ppm
Concentration RSD	1.0 %	1.1 %	0.5 %	0.3 %	0.1 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0510 ppm	0.4772 ppm	0.1918 ppm	0.2720 ppm	1.0160 ppm	11.4073 ppm	0.0124 ppm
Concentration per Run 1	0.0515 ppm	0.4775 ppm	0.1930 ppm	0.2728 ppm	1.0201 ppm	11.3896 ppm	0.0133 ppm
Concentration per Run 2	0.0510 ppm	0.4785 ppm	0.1922 ppm	0.2723 ppm	1.0173 ppm	11.4487 ppm	0.0118 ppm
Concentration per Run 3	0.0506 ppm	0.4756 ppm	0.1901 ppm	0.2711 ppm	1.0107 ppm	11.3835 ppm	0.0121 ppm
Concentration RSD	0.8 %	0.3 %	0.8 %	0.3 %	0.5 %	0.3 %	6.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.3720 ppm	0.4963 ppm	0.9245 ppm	31.0920 ppm	0.4748 ppm	0.5309 ppm	0.4179 ppm
Concentration per Run 1	41.6948 ppm	0.4974 ppm	0.9138 ppm	31.1080 ppm	0.4769 ppm	0.5304 ppm	0.4106 ppm
Concentration per Run 2	41.2646 ppm	0.4990 ppm	0.9256 ppm	31.1047 ppm	0.4744 ppm	0.5298 ppm	0.4211 ppm
Concentration per Run 3	41.1565 ppm	0.4927 ppm	0.9340 ppm	31.0634 ppm	0.4732 ppm	0.5326 ppm	0.4220 ppm
Concentration RSD	0.7 %	0.7 %	1.1 %	0.1 %	0.4 %	0.3 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1238 ppm	10.6372 ppm	0.9253 ppm	1.2672 ppm	0.9965 ppm	0.1211 ppm	0.4985 ppm
Concentration per Run 1	0.1174 ppm	10.7071 ppm	0.9267 ppm	1.2659 ppm	0.9938 ppm	0.1219 ppm	0.5013 ppm
Concentration per Run 2	0.1253 ppm	10.6991 ppm	0.9239 ppm	1.2682 ppm	0.9996 ppm	0.1214 ppm	0.4964 ppm
Concentration per Run 3	0.1286 ppm	10.5054 ppm	0.9253 ppm	1.2677 ppm	0.9961 ppm	0.1200 ppm	0.4978 ppm
Concentration RSD	4.6 %	1.1 %	0.2 %	0.1 %	0.3 %	0.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5234 ppm	101.6344 %	101.7138 %	95.7673 %	99.1716 %	100.7662 %	98.6433 %
Concentration per Run 1	0.5244 ppm	101.6651 %	101.6211 %	95.5402 %	99.3822 %	100.8173 %	98.4876 %
Concentration per Run 2	0.5259 ppm	102.5083 %	102.0494 %	96.2468 %	100.0563 %	101.1532 %	98.9716 %
Concentration per Run 3	0.5199 ppm	100.7299 %	101.4709 %	95.5148 %	98.0763 %	100.3282 %	98.4709 %
Concentration RSD	0.6 %	0.9 %	0.3 %	0.4 %	1.0 %	0.4 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-4 WG1974865
Analysis started at: 9/24/2024 10:28:14 AM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0067 ppm	0.0029 ppm	0.2711 ppm	0.0735 ppm	0.0000 ppm	93.4467 ppm
Concentration per Run 1	0.0000 ppm	0.0021 ppm	0.0042 ppm	0.2701 ppm	0.0734 ppm	-0.0001 ppm	93.8218 ppm
Concentration per Run 2	-0.0004 ppm	0.0192 ppm	0.0027 ppm	0.2715 ppm	0.0738 ppm	0.0000 ppm	93.1061 ppm
Concentration per Run 3	-0.0002 ppm	-0.0012 ppm	0.0018 ppm	0.2716 ppm	0.0733 ppm	0.0001 ppm	93.4123 ppm
Concentration RSD	110.2 %	162.9 %	41.9 %	0.3 %	0.4 %	350.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0001 ppm	-0.0006 ppm	0.0282 ppm	0.0050 ppm	1.0094 ppm	0.0122 ppm
Concentration per Run 1	-0.0003 ppm	-0.0007 ppm	-0.0005 ppm	0.0286 ppm	0.0036 ppm	1.0460 ppm	0.0148 ppm
Concentration per Run 2	-0.0005 ppm	-0.0002 ppm	-0.0002 ppm	0.0281 ppm	0.0061 ppm	1.0087 ppm	0.0117 ppm
Concentration per Run 3	-0.0004 ppm	0.0006 ppm	-0.0009 ppm	0.0279 ppm	0.0054 ppm	0.9737 ppm	0.0101 ppm
Concentration RSD	25.2 %	588.0 %	63.7 %	1.3 %	25.5 %	3.6 %	19.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.5294 ppm	0.0001 ppm	0.0043 ppm	21.2229 ppm	0.0008 ppm	0.0017 ppm	0.0028 ppm
Concentration per Run 1	32.5416 ppm	0.0000 ppm	0.0047 ppm	21.2779 ppm	0.0020 ppm	0.0019 ppm	0.0013 ppm
Concentration per Run 2	32.4889 ppm	-0.0002 ppm	0.0039 ppm	21.1945 ppm	-0.0004 ppm	0.0012 ppm	-0.0007 ppm
Concentration per Run 3	32.5577 ppm	0.0004 ppm	0.0044 ppm	21.1965 ppm	0.0009 ppm	0.0019 ppm	0.0079 ppm
Concentration RSD	0.1 %	321.8 %	9.0 %	0.2 %	142.7 %	21.7 %	158.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	10.3096 ppm	0.0043 ppm	0.3124 ppm	0.0007 ppm	0.0006 ppm	0.0019 ppm
Concentration per Run 1	-0.0011 ppm	10.3354 ppm	0.0048 ppm	0.3120 ppm	0.0005 ppm	0.0012 ppm	0.0020 ppm
Concentration per Run 2	-0.0034 ppm	10.3233 ppm	0.0053 ppm	0.3143 ppm	0.0005 ppm	0.0004 ppm	0.0018 ppm
Concentration per Run 3	0.0004 ppm	10.2700 ppm	0.0027 ppm	0.3108 ppm	0.0010 ppm	0.0002 ppm	0.0019 ppm
Concentration RSD	141.4 %	0.3 %	33.0 %	0.6 %	42.6 %	83.2 %	6.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0364 ppm	101.4226 %	101.2814 %	96.7443 %	99.9072 %	100.3155 %	99.8870 %
Concentration per Run 1	0.0365 ppm	100.9343 %	101.3077 %	96.7504 %	100.0780 %	100.9288 %	100.0630 %
Concentration per Run 2	0.0365 ppm	102.0814 %	100.7989 %	96.8630 %	100.4067 %	99.1397 %	99.9170 %
Concentration per Run 3	0.0362 ppm	101.2522 %	101.7376 %	96.6195 %	99.2369 %	100.8780 %	99.6812 %
Concentration RSD	0.5 %	0.6 %	0.5 %	0.1 %	0.6 %	1.0 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-5 WG1974865
Analysis started at: 9/24/2024 10:32:08 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0495 ppm	2.0476 ppm	0.1294 ppm	1.3094 ppm	2.1132 ppm	0.0521 ppm	99.6287 ppm
Concentration per Run 1	0.0498 ppm	2.0507 ppm	0.1306 ppm	1.3129 ppm	2.1089 ppm	0.0521 ppm	99.8148 ppm
Concentration per Run 2	0.0492 ppm	2.0491 ppm	0.1301 ppm	1.3114 ppm	2.1131 ppm	0.0520 ppm	99.6017 ppm
Concentration per Run 3	0.0496 ppm	2.0431 ppm	0.1276 ppm	1.3038 ppm	2.1177 ppm	0.0521 ppm	99.4696 ppm
Concentration RSD	0.5 %	0.2 %	1.2 %	0.4 %	0.2 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0525 ppm	0.4885 ppm	0.1983 ppm	0.2781 ppm	1.0535 ppm	11.9212 ppm	0.0123 ppm
Concentration per Run 1	0.0526 ppm	0.4887 ppm	0.1975 ppm	0.2792 ppm	1.0483 ppm	11.9052 ppm	0.0134 ppm
Concentration per Run 2	0.0525 ppm	0.4881 ppm	0.1997 ppm	0.2773 ppm	1.0512 ppm	11.9478 ppm	0.0127 ppm
Concentration per Run 3	0.0524 ppm	0.4888 ppm	0.1977 ppm	0.2780 ppm	1.0610 ppm	11.9107 ppm	0.0107 ppm
Concentration RSD	0.2 %	0.1 %	0.6 %	0.3 %	0.6 %	0.2 %	11.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.1016 ppm	0.5094 ppm	0.9683 ppm	31.1534 ppm	0.4874 ppm	0.5452 ppm	0.3704 ppm
Concentration per Run 1	41.0267 ppm	0.5114 ppm	0.9549 ppm	31.1943 ppm	0.4883 ppm	0.5460 ppm	0.3546 ppm
Concentration per Run 2	41.2363 ppm	0.5065 ppm	0.9714 ppm	31.1713 ppm	0.4904 ppm	0.5453 ppm	0.3744 ppm
Concentration per Run 3	41.0419 ppm	0.5102 ppm	0.9787 ppm	31.0947 ppm	0.4835 ppm	0.5443 ppm	0.3821 ppm
Concentration RSD	0.3 %	0.5 %	1.3 %	0.2 %	0.7 %	0.2 %	3.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1260 ppm	10.8536 ppm	0.9961 ppm	1.3129 ppm	1.0511 ppm	0.1232 ppm	0.5114 ppm
Concentration per Run 1	0.1256 ppm	10.8593 ppm	0.9910 ppm	1.3147 ppm	1.0473 ppm	0.1228 ppm	0.5124 ppm
Concentration per Run 2	0.1250 ppm	10.8962 ppm	0.9995 ppm	1.3130 ppm	1.0595 ppm	0.1260 ppm	0.5108 ppm
Concentration per Run 3	0.1274 ppm	10.8052 ppm	0.9977 ppm	1.3109 ppm	1.0465 ppm	0.1209 ppm	0.5109 ppm
Concentration RSD	1.0 %	0.4 %	0.5 %	0.1 %	0.7 %	2.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5359 ppm	101.6138 %	102.9831 %	95.4354 %	99.2264 %	101.6780 %	98.3286 %
Concentration per Run 1	0.5345 ppm	102.0442 %	102.8711 %	94.6168 %	99.8234 %	101.7960 %	97.4469 %
Concentration per Run 2	0.5391 ppm	101.6458 %	102.3076 %	95.4402 %	99.1014 %	100.9592 %	98.4271 %
Concentration per Run 3	0.5341 ppm	101.1513 %	103.7705 %	96.2493 %	98.7544 %	102.2788 %	99.1119 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.9 %	0.5 %	0.7 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-6D5 WG1974865
Analysis started at: 9/24/2024 10:36:03 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0010 ppm	0.0029 ppm	0.0559 ppm	0.0145 ppm	0.0000 ppm	19.0364 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0033 ppm	0.0556 ppm	0.0145 ppm	0.0000 ppm	19.1320 ppm
Concentration per Run 2	0.0003 ppm	-0.0099 ppm	0.0027 ppm	0.0554 ppm	0.0145 ppm	0.0000 ppm	19.0223 ppm
Concentration per Run 3	-0.0007 ppm	0.0065 ppm	0.0026 ppm	0.0567 ppm	0.0146 ppm	0.0000 ppm	18.9551 ppm
Concentration RSD	1,365.0 %	837.1 %	13.4 %	1.3 %	0.6 %	53.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0055 ppm	0.0037 ppm	0.2031 ppm	0.0040 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0052 ppm	0.0032 ppm	0.2232 ppm	0.0045 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	-0.0001 ppm	0.0060 ppm	0.0028 ppm	0.1911 ppm	0.0021 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0052 ppm	0.0051 ppm	0.1952 ppm	0.0053 ppm
Concentration RSD	1,000.3 %	348.0 %	156.7 %	8.6 %	33.5 %	8.6 %	41.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.5613 ppm	0.0000 ppm	0.0048 ppm	4.2763 ppm	0.0003 ppm	0.0007 ppm	0.0111 ppm
Concentration per Run 1	6.5479 ppm	0.0002 ppm	0.0056 ppm	4.2714 ppm	0.0003 ppm	-0.0004 ppm	0.0136 ppm
Concentration per Run 2	6.5570 ppm	-0.0001 ppm	0.0046 ppm	4.2991 ppm	-0.0005 ppm	0.0010 ppm	0.0089 ppm
Concentration per Run 3	6.5790 ppm	0.0000 ppm	0.0042 ppm	4.2584 ppm	0.0011 ppm	0.0016 ppm	0.0108 ppm
Concentration RSD	0.2 %	391.0 %	15.1 %	0.5 %	265.4 %	139.4 %	21.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	1.9944 ppm	0.0140 ppm	0.0622 ppm	0.0008 ppm	0.0015 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	1.9841 ppm	0.0148 ppm	0.0624 ppm	0.0011 ppm	0.0012 ppm	0.0002 ppm
Concentration per Run 2	0.0031 ppm	2.0053 ppm	0.0147 ppm	0.0623 ppm	0.0006 ppm	0.0017 ppm	0.0001 ppm
Concentration per Run 3	0.0020 ppm	1.9938 ppm	0.0125 ppm	0.0620 ppm	0.0006 ppm	0.0015 ppm	0.0001 ppm
Concentration RSD	196.0 %	0.5 %	9.3 %	0.3 %	38.0 %	17.3 %	47.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0062 ppm	104.1075 %	102.1939 %	102.0056 %	102.0477 %	101.6065 %	102.2442 %
Concentration per Run 1	0.0062 ppm	103.4503 %	102.6986 %	101.4372 %	101.3973 %	102.6037 %	101.6292 %
Concentration per Run 2	0.0062 ppm	104.7392 %	100.8359 %	102.0778 %	102.8724 %	99.7395 %	102.4722 %
Concentration per Run 3	0.0063 ppm	104.1329 %	103.0472 %	102.5017 %	101.8735 %	102.4763 %	102.6313 %
Concentration RSD	0.6 %	0.6 %	1.2 %	0.5 %	0.7 %	1.6 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 10:39:58 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5013 ppm	0.4698 ppm	0.4778 ppm	0.4882 ppm	0.4916 ppm	0.5017 ppm	0.4812 ppm
Concentration per Run 1	0.4999 ppm	0.4711 ppm	0.4737 ppm	0.4908 ppm	0.4915 ppm	0.5017 ppm	0.4841 ppm
Concentration per Run 2	0.5015 ppm	0.4726 ppm	0.4761 ppm	0.4846 ppm	0.4898 ppm	0.5016 ppm	0.4775 ppm
Concentration per Run 3	0.5024 ppm	0.4655 ppm	0.4835 ppm	0.4894 ppm	0.4936 ppm	0.5019 ppm	0.4819 ppm
Recovery Percentage 1	100.262 %	93.953 %	95.552 %	97.650 %	98.330 %	100.339 %	96.237 %
Concentration RSD	0.3 %	0.8 %	1.1 %	0.7 %	0.4 %	0.0 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4857 ppm	0.4989 ppm	0.4805 ppm	0.4832 ppm	0.4950 ppm	5.0438 ppm	0.4860 ppm
Concentration per Run 1	0.4798 ppm	0.4927 ppm	0.4811 ppm	0.4831 ppm	0.4933 ppm	5.0212 ppm	0.4872 ppm
Concentration per Run 2	0.4897 ppm	0.5031 ppm	0.4796 ppm	0.4822 ppm	0.4964 ppm	5.0449 ppm	0.4853 ppm
Concentration per Run 3	0.4876 ppm	0.5010 ppm	0.4809 ppm	0.4842 ppm	0.4952 ppm	5.0654 ppm	0.4856 ppm
Recovery Percentage 1	97.135 %	99.787 %	96.104 %	96.634 %	98.998 %	100.877 %	97.206 %
Concentration RSD	1.1 %	1.1 %	0.2 %	0.2 %	0.3 %	0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4833 ppm	0.4806 ppm	0.4815 ppm	9.8391 ppm	0.4996 ppm	0.4913 ppm	0.5007 ppm
Concentration per Run 1	0.4834 ppm	0.4815 ppm	0.4759 ppm	9.8367 ppm	0.4985 ppm	0.4880 ppm	0.5001 ppm
Concentration per Run 2	0.4832 ppm	0.4793 ppm	0.4834 ppm	9.8386 ppm	0.4991 ppm	0.4916 ppm	0.5003 ppm
Concentration per Run 3	0.4832 ppm	0.4808 ppm	0.4853 ppm	9.8420 ppm	0.5014 ppm	0.4944 ppm	0.5018 ppm
Recovery Percentage 1	96.651 %	96.110 %	96.309 %	98.391 %	99.929 %	98.266 %	100.144 %
Concentration RSD	0.0 %	0.2 %	1.0 %	0.0 %	0.3 %	0.6 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4901 ppm	5.2104 ppm	0.4778 ppm	0.4707 ppm	0.4906 ppm	0.4936 ppm	0.4775 ppm
Concentration per Run 1	0.4905 ppm	5.1777 ppm	0.4757 ppm	0.4721 ppm	0.4888 ppm	0.4923 ppm	0.4751 ppm
Concentration per Run 2	0.4887 ppm	5.2208 ppm	0.4775 ppm	0.4685 ppm	0.4903 ppm	0.4908 ppm	0.4794 ppm
Concentration per Run 3	0.4912 ppm	5.2328 ppm	0.4803 ppm	0.4714 ppm	0.4928 ppm	0.4976 ppm	0.4781 ppm
Recovery Percentage 1	98.027 %	99.246 %	95.561 %	94.133 %	98.127 %	98.712 %	95.508 %
Concentration RSD	0.3 %	0.6 %	0.5 %	0.4 %	0.4 %	0.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4985 ppm	104.3232 %	104.6456 %	103.5457 %	101.7924 %	103.4454 %	103.3574 %
Concentration per Run 1	0.4985 ppm	103.7507 %	104.8994 %	104.1680 %	101.1107 %	103.6795 %	103.5684 %
Concentration per Run 2	0.4963 ppm	104.1795 %	104.2130 %	104.6720 %	101.6689 %	102.9306 %	104.5292 %
Concentration per Run 3	0.5006 ppm	105.0395 %	104.8245 %	101.7971 %	102.5975 %	103.7260 %	101.9746 %
Recovery Percentage 1	99.699 %						
Concentration RSD	0.4 %	0.6 %	0.4 %	1.5 %	0.7 %	0.4 %	1.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 10:43:52 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0011 ppm	0.0012 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	0.0011 ppm	0.0102 ppm	0.0012 ppm	0.0007 ppm	-0.0002 ppm	-0.0001 ppm	-0.0028 ppm
Concentration per Run 2	0.0010 ppm	-0.0016 ppm	0.0015 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 3	-0.0003 ppm	-0.0053 ppm	0.0010 ppm	0.0021 ppm	-0.0002 ppm	0.0000 ppm	0.0022 ppm
Recovery Percentage 1	8.290 %	1.095 %	24.111 %	5.448 %	-1.394 %	-0.182 %	-0.823 %
Concentration RSD	136.5 %	739.6 %	18.9 %	47.2 %	112.3 %	558.5 %	319.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0026 ppm	-0.0263 ppm	0.0012 ppm
Concentration per Run 1	0.0000 ppm	-0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0030 ppm	-0.0244 ppm	0.0024 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0003 ppm	0.0002 ppm	0.0020 ppm	-0.0057 ppm	0.0010 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0029 ppm	-0.0488 ppm	0.0004 ppm
Recovery Percentage 1	1.437 %	-2.321 %	0.757 %	0.731 %	5.262 %	-1.052 %	24.819 %
Concentration RSD	113.6 %	173.3 %	332.7 %	161.7 %	19.6 %	82.2 %	82.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0001 ppm	0.0012 ppm	-0.0025 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 1	-0.0008 ppm	0.0002 ppm	0.0013 ppm	-0.0056 ppm	0.0013 ppm	0.0009 ppm	0.0019 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	0.0016 ppm	-0.0001 ppm	-0.0001 ppm	-0.0014 ppm	0.0005 ppm
Concentration per Run 3	-0.0006 ppm	0.0000 ppm	0.0006 ppm	-0.0019 ppm	-0.0005 ppm	0.0005 ppm	-0.0005 ppm
Recovery Percentage 1	-0.353 %	1.060 %	2.403 %	-0.127 %	0.849 %	0.005 %	1.248 %
Concentration RSD	178.6 %	91.4 %	41.5 %	111.9 %	440.7 %	231,410.1 %	190.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	-0.0027 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0016 ppm	-0.0039 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 2	-0.0004 ppm	-0.0023 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0014 ppm	-0.0005 ppm
Concentration per Run 3	0.0004 ppm	-0.0018 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm
Recovery Percentage 1	5.289 %	-0.534 %	0.243 %	1.687 %	2.463 %	3.270 %	-1.122 %
Concentration RSD	196.3 %	40.2 %	258.8 %	71.0 %	89.3 %	119.0 %	277.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0013 ppm	104.6408 %	102.5453 %	104.1382 %	103.9135 %	102.2336 %	104.7255 %
Concentration per Run 1	-0.0015 ppm	104.8095 %	102.0081 %	104.1060 %	104.1464 %	101.6604 %	104.8701 %
Concentration per Run 2	-0.0014 ppm	104.7632 %	102.8313 %	103.9668 %	104.0511 %	102.4750 %	104.6648 %
Concentration per Run 3	-0.0010 ppm	104.3496 %	102.7965 %	104.3419 %	103.5430 %	102.5653 %	104.6415 %
Recovery Percentage 1	-25.837 %						
Concentration RSD	18.5 %	0.2 %	0.5 %	0.2 %	0.3 %	0.5 %	0.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-1 WG1974865
Analysis started at: 9/24/2024 10:51:03 AM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0034 ppm	-0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0109 ppm
Concentration per Run 1	0.0002 ppm	-0.0059 ppm	-0.0013 ppm	0.0019 ppm	-0.0003 ppm	-0.0001 ppm	0.0066 ppm
Concentration per Run 2	0.0007 ppm	0.0040 ppm	-0.0002 ppm	-0.0020 ppm	0.0000 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 3	0.0006 ppm	0.0122 ppm	0.0007 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0141 ppm
Recovery Percentage 1	6.802 %	3.433 %	-5.809 %	0.935 %	-1.289 %	0.053 %	10.905 %
Concentration RSD	58.6 %	264.3 %	334.8 %	714.4 %	106.6 %	2,322.1 %	35.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0002 ppm	0.0007 ppm	-0.0160 ppm	-0.0001 ppm
Concentration per Run 1	-0.0002 ppm	-0.0003 ppm	-0.0005 ppm	-0.0001 ppm	0.0037 ppm	-0.0176 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	-0.0019 ppm	0.0073 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0002 ppm	-0.0375 ppm	0.0008 ppm
Recovery Percentage 1	-1.415 %	-1.022 %	-2.855 %	-1.580 %	1.327 %	-0.639 %	-2.008 %
Concentration RSD	120.5 %	51.0 %	85.5 %	41.1 %	431.3 %	140.6 %	908.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0013 ppm	-0.0002 ppm	0.0002 ppm	0.0049 ppm	-0.0009 ppm	0.0003 ppm	-0.0008 ppm
Concentration per Run 1	0.0011 ppm	-0.0002 ppm	-0.0003 ppm	0.0037 ppm	-0.0004 ppm	0.0007 ppm	-0.0027 ppm
Concentration per Run 2	0.0028 ppm	0.0000 ppm	0.0004 ppm	0.0014 ppm	-0.0013 ppm	-0.0001 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0096 ppm	-0.0011 ppm	0.0003 ppm	-0.0015 ppm
Recovery Percentage 1	1.294 %	-1.655 %	0.303 %	0.245 %	-3.789 %	3.050 %	-1.502 %
Concentration RSD	105.8 %	90.6 %	265.1 %	85.5 %	53.4 %	139.4 %	317.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0001 ppm	-0.0024 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0028 ppm	-0.0001 ppm	-0.0024 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0025 ppm	-0.0020 ppm	0.0002 ppm	0.0007 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0015 ppm	-0.0020 ppm	-0.0029 ppm	0.0001 ppm	0.0004 ppm	0.0013 ppm	-0.0002 ppm
Recovery Percentage 1	-3.884 %	0.029 %	-4.848 %	0.723 %	4.374 %	-0.092 %	-1.607 %
Concentration RSD	568.2 %	1,549.8 %	20.4 %	156.4 %	49.7 %	6,993.1 %	29.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0010 ppm	101.7657 %	102.2434 %	101.9955 %	101.6228 %	102.2768 %	101.8184 %
Concentration per Run 1	-0.0010 ppm	102.0777 %	101.9929 %	101.8418 %	102.1764 %	102.1964 %	101.6139 %
Concentration per Run 2	-0.0008 ppm	101.7895 %	101.6452 %	102.0115 %	101.8164 %	101.5310 %	101.8526 %
Concentration per Run 3	-0.0013 ppm	101.4300 %	103.0920 %	102.1333 %	100.8755 %	103.1030 %	101.9887 %
Recovery Percentage 1	-20.440 %						
Concentration RSD	20.8 %	0.3 %	0.7 %	0.1 %	0.7 %	0.8 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975349-1 WG1975349
Analysis started at: 9/24/2024 10:55:11 AM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0102 ppm	0.0019 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	0.0204 ppm
Concentration per Run 1	0.0003 ppm	0.0065 ppm	0.0027 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0192 ppm
Concentration per Run 2	0.0002 ppm	0.0070 ppm	0.0010 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0201 ppm
Concentration per Run 3	0.0007 ppm	0.0170 ppm	0.0019 ppm	0.0013 ppm	-0.0001 ppm	0.0001 ppm	0.0220 ppm
Recovery Percentage 1	5.778 %	10.169 %	37.055 %	3.434 %	-0.647 %	0.230 %	20.416 %
Concentration RSD	68.4 %	58.3 %	44.6 %	37.3 %	81.4 %	433.4 %	6.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0000 ppm	**0.0182 ppm**	0.0010 ppm	**0.0896 ppm**	0.0025 ppm	-0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0182 ppm	0.0010 ppm	0.0907 ppm	-0.0030 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0188 ppm	0.0008 ppm	0.0894 ppm	-0.0005 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0175 ppm	0.0011 ppm	0.0888 ppm	0.0110 ppm	-0.0018 ppm
Recovery Percentage 1	1.981 %	0.190 %	181.968 %	9.627 %	179.266 %	0.100 %	-4.427 %
Concentration RSD	44.2 %	1,111.6 %	**3.7 %**	19.8 %	**1.1 %**	300.4 %	699.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0070 ppm	0.0018 ppm	0.0008 ppm	0.0131 ppm	0.0078 ppm	-0.0003 ppm	0.0052 ppm
Concentration per Run 1	0.0074 ppm	0.0019 ppm	0.0012 ppm	0.0157 ppm	0.0066 ppm	-0.0015 ppm	0.0045 ppm
Concentration per Run 2	0.0057 ppm	0.0018 ppm	0.0009 ppm	0.0095 ppm	0.0082 ppm	-0.0004 ppm	0.0039 ppm
Concentration per Run 3	0.0079 ppm	0.0016 ppm	0.0002 ppm	0.0142 ppm	0.0085 ppm	0.0010 ppm	0.0071 ppm
Recovery Percentage 1	7.021 %	17.945 %	1.536 %	0.656 %	31.098 %	-3.043 %	10.311 %
Concentration RSD	16.1 %	8.5 %	70.3 %	24.4 %	13.0 %	404.3 %	32.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0085 ppm	0.0043 ppm	0.0001 ppm	0.0002 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 1	-0.0015 ppm	0.0074 ppm	0.0044 ppm	0.0003 ppm	0.0005 ppm	0.0002 ppm	-0.0006 ppm
Concentration per Run 2	0.0011 ppm	0.0096 ppm	0.0037 ppm	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0005 ppm	0.0085 ppm	0.0049 ppm	0.0001 ppm	-0.0001 ppm	-0.0021 ppm	-0.0003 ppm
Recovery Percentage 1	0.427 %	1.700 %	8.616 %	1.334 %	2.467 %	-3.590 %	-3.054 %
Concentration RSD	3,139.6 %	13.2 %	14.0 %	82.2 %	137.5 %	174.3 %	106.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	109.6460 %	110.1007 %	104.5375 %	107.6442 %	109.6147 %	106.6153 %
Concentration per Run 1	-0.0001 ppm	109.6773 %	108.8795 %	103.7224 %	107.7439 %	108.3668 %	105.6090 %
Concentration per Run 2	-0.0002 ppm	109.4203 %	110.3055 %	105.1348 %	107.2457 %	109.9657 %	106.8965 %
Concentration per Run 3	-0.0003 ppm	109.8402 %	111.1172 %	104.7552 %	107.9429 %	110.5116 %	107.3406 %
Recovery Percentage 1	-3.859 %						
Concentration RSD	66.8 %	0.2 %	1.0 %	0.7 %	0.3 %	1.0 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-2 WG1974865
Analysis started at: 9/24/2024 10:59:04 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0510 ppm	1.9465 ppm	0.1191 ppm	0.9680 ppm	1.9796 ppm	0.0504 ppm	10.0269 ppm
Concentration per Run 1	0.0512 ppm	1.9466 ppm	0.1181 ppm	0.9634 ppm	1.9760 ppm	0.0504 ppm	9.9996 ppm
Concentration per Run 2	0.0508 ppm	1.9471 ppm	0.1199 ppm	0.9629 ppm	1.9913 ppm	0.0508 ppm	10.0582 ppm
Concentration per Run 3	0.0508 ppm	1.9457 ppm	0.1193 ppm	0.9778 ppm	1.9713 ppm	0.0502 ppm	10.0229 ppm
Concentration RSD	0.5 %	0.0 %	0.8 %	0.9 %	0.5 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0528 ppm	0.4964 ppm	0.1933 ppm	0.2469 ppm	1.0093 ppm	10.2803 ppm	0.0007 ppm
Concentration per Run 1	0.0532 ppm	0.4994 ppm	0.1935 ppm	0.2470 ppm	1.0042 ppm	10.2308 ppm	0.0010 ppm
Concentration per Run 2	0.0523 ppm	0.4936 ppm	0.1936 ppm	0.2465 ppm	1.0169 ppm	10.3467 ppm	0.0004 ppm
Concentration per Run 3	0.0529 ppm	0.4963 ppm	0.1928 ppm	0.2473 ppm	1.0068 ppm	10.2635 ppm	0.0008 ppm
Concentration RSD	0.9 %	0.6 %	0.2 %	0.2 %	0.7 %	0.6 %	43.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.9427 ppm	0.5008 ppm	0.9483 ppm	10.1405 ppm	0.4955 ppm	0.5364 ppm	0.4223 ppm
Concentration per Run 1	9.9660 ppm	0.5012 ppm	0.9362 ppm	10.1013 ppm	0.4954 ppm	0.5354 ppm	0.4131 ppm
Concentration per Run 2	9.9130 ppm	0.5020 ppm	0.9497 ppm	10.2191 ppm	0.4957 ppm	0.5343 ppm	0.4226 ppm
Concentration per Run 3	9.9489 ppm	0.4990 ppm	0.9589 ppm	10.1012 ppm	0.4955 ppm	0.5393 ppm	0.4311 ppm
Concentration RSD	0.3 %	0.3 %	1.2 %	0.7 %	0.0 %	0.5 %	2.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1204 ppm	0.6126 ppm	0.9465 ppm	0.9614 ppm	1.0047 ppm	0.1218 ppm	0.4940 ppm
Concentration per Run 1	0.1196 ppm	0.6122 ppm	0.9421 ppm	0.9590 ppm	1.0054 ppm	0.1214 ppm	0.4948 ppm
Concentration per Run 2	0.1182 ppm	0.6131 ppm	0.9473 ppm	0.9681 ppm	1.0011 ppm	0.1214 ppm	0.4939 ppm
Concentration per Run 3	0.1233 ppm	0.6126 ppm	0.9501 ppm	0.9570 ppm	1.0076 ppm	0.1226 ppm	0.4933 ppm
Concentration RSD	2.2 %	0.1 %	0.4 %	0.6 %	0.3 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4973 ppm	105.6297 %	104.9282 %	103.1657 %	103.3433 %	103.8182 %	103.5269 %
Concentration per Run 1	0.4965 ppm	105.1173 %	105.5552 %	103.0765 %	102.9251 %	104.1528 %	103.2644 %
Concentration per Run 2	0.4967 ppm	105.8747 %	104.1918 %	102.8984 %	103.3977 %	103.1199 %	103.1950 %
Concentration per Run 3	0.4986 ppm	105.8971 %	105.0377 %	103.5224 %	103.7072 %	104.1818 %	104.1214 %
Concentration RSD	0.2 %	0.4 %	0.7 %	0.3 %	0.4 %	0.6 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975349-2 WG1975349
Analysis started at: 9/24/2024 11:02:57 AM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0907 ppm	3.4955 ppm	0.2228 ppm	1.7240 ppm	3.5673 ppm	0.0915 ppm	17.9518 ppm
Concentration per Run 1	0.0908 ppm	3.4943 ppm	0.2226 ppm	1.7252 ppm	3.5762 ppm	0.0919 ppm	17.8358 ppm
Concentration per Run 2	0.0904 ppm	3.4905 ppm	0.2217 ppm	1.7244 ppm	3.5784 ppm	0.0915 ppm	17.9706 ppm
Concentration per Run 3	0.0908 ppm	3.5017 ppm	0.2242 ppm	1.7223 ppm	3.5472 ppm	0.0910 ppm	18.0488 ppm
Concentration RSD	0.2 %	0.2 %	0.6 %	0.1 %	0.5 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0910 ppm	0.8907 ppm	0.3578 ppm	0.4581 ppm	1.8282 ppm	18.4298 ppm	0.0009 ppm
Concentration per Run 1	0.0905 ppm	0.8893 ppm	0.3594 ppm	0.4587 ppm	1.8414 ppm	18.4237 ppm	0.0018 ppm
Concentration per Run 2	0.0910 ppm	0.8914 ppm	0.3567 ppm	0.4573 ppm	1.8221 ppm	18.5617 ppm	0.0003 ppm
Concentration per Run 3	0.0916 ppm	0.8913 ppm	0.3572 ppm	0.4583 ppm	1.8211 ppm	18.3040 ppm	0.0005 ppm
Concentration RSD	0.6 %	0.1 %	0.4 %	0.2 %	0.6 %	0.7 %	86.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.8732 ppm	0.8990 ppm	1.8854 ppm	18.0532 ppm	0.8935 ppm	0.9768 ppm	0.9002 ppm
Concentration per Run 1	17.8438 ppm	0.9014 ppm	1.8808 ppm	18.0044 ppm	0.8964 ppm	0.9766 ppm	0.8916 ppm
Concentration per Run 2	17.9061 ppm	0.8973 ppm	1.8862 ppm	18.0688 ppm	0.8925 ppm	0.9738 ppm	0.9045 ppm
Concentration per Run 3	17.8699 ppm	0.8984 ppm	1.8893 ppm	18.0864 ppm	0.8916 ppm	0.9801 ppm	0.9044 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %	0.3 %	0.3 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.2073 ppm	1.3058 ppm	1.7613 ppm	1.7272 ppm	1.8541 ppm	0.2216 ppm	0.9140 ppm
Concentration per Run 1	0.2095 ppm	1.3005 ppm	1.7701 ppm	1.7305 ppm	1.8515 ppm	0.2212 ppm	0.9133 ppm
Concentration per Run 2	0.2069 ppm	1.3023 ppm	1.7621 ppm	1.7263 ppm	1.8598 ppm	0.2211 ppm	0.9139 ppm
Concentration per Run 3	0.2056 ppm	1.3148 ppm	1.7516 ppm	1.7249 ppm	1.8511 ppm	0.2224 ppm	0.9150 ppm
Concentration RSD	1.0 %	0.6 %	0.5 %	0.2 %	0.3 %	0.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8830 ppm	107.4789 %	109.9604 %	102.0127 %	104.3858 %	108.6686 %	104.3427 %
Concentration per Run 1	0.8846 ppm	107.0039 %	110.8805 %	102.6750 %	103.9266 %	109.2144 %	104.8487 %
Concentration per Run 2	0.8802 ppm	107.9261 %	109.4488 %	102.0119 %	104.7025 %	108.2874 %	104.3600 %
Concentration per Run 3	0.8842 ppm	107.5066 %	109.5520 %	101.3513 %	104.5283 %	108.5039 %	103.8193 %
Concentration RSD	0.3 %	0.4 %	0.7 %	0.6 %	0.4 %	0.4 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975349-3 WG1975349
Analysis started at: 9/24/2024 11:06:50 AM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0915 ppm	3.5143 ppm	0.2236 ppm	1.7425 ppm	3.5761 ppm	0.0918 ppm	18.0757 ppm
Concentration per Run 1	0.0914 ppm	3.5091 ppm	0.2265 ppm	1.7431 ppm	3.5717 ppm	0.0918 ppm	18.0061 ppm
Concentration per Run 2	0.0917 ppm	3.5062 ppm	0.2244 ppm	1.7382 ppm	3.5709 ppm	0.0915 ppm	17.9997 ppm
Concentration per Run 3	0.0913 ppm	3.5275 ppm	0.2199 ppm	1.7461 ppm	3.5859 ppm	0.0921 ppm	18.2214 ppm
Concentration RSD	0.3 %	0.3 %	1.5 %	0.2 %	0.2 %	0.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0922 ppm	0.9046 ppm	0.3609 ppm	0.4649 ppm	1.8362 ppm	18.5152 ppm	0.0013 ppm
Concentration per Run 1	0.0927 ppm	0.9091 ppm	0.3610 ppm	0.4666 ppm	1.8347 ppm	18.4700 ppm	0.0023 ppm
Concentration per Run 2	0.0920 ppm	0.8978 ppm	0.3600 ppm	0.4624 ppm	1.8231 ppm	18.4804 ppm	0.0010 ppm
Concentration per Run 3	0.0919 ppm	0.9070 ppm	0.3616 ppm	0.4656 ppm	1.8509 ppm	18.5953 ppm	0.0007 ppm
Concentration RSD	0.5 %	0.7 %	0.2 %	0.5 %	0.8 %	0.4 %	62.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.0332 ppm	0.9079 ppm	1.9102 ppm	18.1711 ppm	0.9018 ppm	0.9882 ppm	0.8920 ppm
Concentration per Run 1	18.0249 ppm	0.9071 ppm	1.9162 ppm	18.1232 ppm	0.9014 ppm	0.9930 ppm	0.8956 ppm
Concentration per Run 2	18.0815 ppm	0.9072 ppm	1.9001 ppm	18.1439 ppm	0.9017 ppm	0.9861 ppm	0.8896 ppm
Concentration per Run 3	17.9932 ppm	0.9094 ppm	1.9142 ppm	18.2462 ppm	0.9022 ppm	0.9855 ppm	0.8908 ppm
Concentration RSD	0.2 %	0.1 %	0.5 %	0.4 %	0.0 %	0.4 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.2082 ppm	1.3218 ppm	1.7650 ppm	1.7289 ppm	1.8723 ppm	0.2231 ppm	0.9235 ppm
Concentration per Run 1	0.2116 ppm	1.3223 ppm	1.7700 ppm	1.7258 ppm	1.8698 ppm	0.2254 ppm	0.9236 ppm
Concentration per Run 2	0.2095 ppm	1.3187 ppm	1.7633 ppm	1.7273 ppm	1.8785 ppm	0.2235 ppm	0.9224 ppm
Concentration per Run 3	0.2035 ppm	1.3245 ppm	1.7616 ppm	1.7336 ppm	1.8687 ppm	0.2203 ppm	0.9246 ppm
Concentration RSD	2.0 %	0.2 %	0.3 %	0.2 %	0.3 %	1.2 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8920 ppm	108.0324 %	110.6864 %	102.8747 %	105.2442 %	109.8709 %	105.2016 %
Concentration per Run 1	0.8923 ppm	108.0867 %	111.5734 %	101.3576 %	105.2295 %	110.3539 %	104.0901 %
Concentration per Run 2	0.8911 ppm	108.1428 %	111.0020 %	102.5260 %	105.0795 %	109.8608 %	104.4438 %
Concentration per Run 3	0.8927 ppm	107.8678 %	109.4839 %	104.7404 %	105.4237 %	109.3979 %	107.0710 %
Concentration RSD	0.1 %	0.1 %	1.0 %	1.7 %	0.2 %	0.4 %	1.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453277-01 WG1974865
Analysis started at: 9/24/2024 11:10:43 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0041 ppm	0.0012 ppm	0.0457 ppm	0.0073 ppm	0.0000 ppm	73.7857 ppm
Concentration per Run 1	0.0004 ppm	-0.0156 ppm	0.0008 ppm	0.0460 ppm	0.0074 ppm	0.0000 ppm	73.5701 ppm
Concentration per Run 2	0.0002 ppm	-0.0126 ppm	0.0021 ppm	0.0453 ppm	0.0073 ppm	0.0000 ppm	73.9520 ppm
Concentration per Run 3	-0.0001 ppm	0.0160 ppm	0.0007 ppm	0.0458 ppm	0.0073 ppm	0.0000 ppm	73.8350 ppm
Concentration RSD	131.5 %	429.4 %	63.5 %	0.8 %	1.3 %	42.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0002 ppm	-0.0010 ppm	0.0950 ppm	0.0098 ppm	1.8550 ppm	0.0012 ppm
Concentration per Run 1	-0.0002 ppm	-0.0009 ppm	-0.0006 ppm	0.0947 ppm	0.0096 ppm	1.8755 ppm	0.0007 ppm
Concentration per Run 2	-0.0003 ppm	0.0001 ppm	-0.0011 ppm	0.0950 ppm	0.0105 ppm	1.8335 ppm	-0.0003 ppm
Concentration per Run 3	-0.0003 ppm	0.0001 ppm	-0.0012 ppm	0.0953 ppm	0.0092 ppm	1.8560 ppm	0.0030 ppm
Concentration RSD	27.3 %	262.7 %	31.4 %	0.3 %	6.9 %	1.1 %	146.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.4742 ppm	0.0004 ppm	0.0033 ppm	82.8161 ppm	0.0013 ppm	-0.0006 ppm	0.0044 ppm
Concentration per Run 1	10.4703 ppm	0.0004 ppm	0.0034 ppm	82.5904 ppm	0.0009 ppm	-0.0011 ppm	0.0022 ppm
Concentration per Run 2	10.5225 ppm	0.0005 ppm	0.0034 ppm	83.0669 ppm	0.0019 ppm	0.0001 ppm	0.0080 ppm
Concentration per Run 3	10.4298 ppm	0.0002 ppm	0.0031 ppm	82.7910 ppm	0.0012 ppm	-0.0008 ppm	0.0031 ppm
Concentration RSD	0.4 %	35.8 %	5.2 %	0.3 %	38.0 %	100.2 %	70.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	6.8414 ppm	-0.0023 ppm	0.2422 ppm	0.0008 ppm	0.0029 ppm	0.0001 ppm
Concentration per Run 1	-0.0022 ppm	6.8043 ppm	-0.0031 ppm	0.2424 ppm	0.0008 ppm	0.0029 ppm	0.0002 ppm
Concentration per Run 2	-0.0021 ppm	6.8678 ppm	-0.0011 ppm	0.2422 ppm	0.0008 ppm	0.0031 ppm	0.0000 ppm
Concentration per Run 3	-0.0053 ppm	6.8523 ppm	-0.0027 ppm	0.2419 ppm	0.0009 ppm	0.0025 ppm	0.0001 ppm
Concentration RSD	56.7 %	0.5 %	46.3 %	0.1 %	6.6 %	10.5 %	117.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0498 ppm	101.4188 %	101.6461 %	97.6764 %	100.0029 %	100.9415 %	101.3091 %
Concentration per Run 1	0.0499 ppm	100.8358 %	101.8223 %	97.2310 %	99.8070 %	101.1215 %	100.8540 %
Concentration per Run 2	0.0503 ppm	101.6898 %	101.7249 %	97.9951 %	99.9990 %	100.9348 %	101.3394 %
Concentration per Run 3	0.0492 ppm	101.7309 %	101.3911 %	97.8030 %	100.2027 %	100.7682 %	101.7340 %
Concentration RSD	1.1 %	0.5 %	0.2 %	0.4 %	0.2 %	0.2 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-7 WG1974865
Analysis started at: 9/24/2024 11:14:38 AM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0500 ppm	1.9473 ppm	0.1264 ppm	1.0242 ppm	1.9826 ppm	0.0511 ppm	83.3757 ppm
Concentration per Run 1	0.0503 ppm	1.9558 ppm	0.1239 ppm	1.0276 ppm	1.9760 ppm	0.0509 ppm	83.2526 ppm
Concentration per Run 2	0.0496 ppm	1.9452 ppm	0.1257 ppm	1.0223 ppm	1.9830 ppm	0.0512 ppm	83.5112 ppm
Concentration per Run 3	0.0502 ppm	1.9407 ppm	0.1296 ppm	1.0227 ppm	1.9888 ppm	0.0512 ppm	83.3634 ppm
Concentration RSD	0.7 %	0.4 %	2.3 %	0.3 %	0.3 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0512 ppm	0.4831 ppm	0.1914 ppm	0.3371 ppm	1.0162 ppm	12.2194 ppm	0.0031 ppm
Concentration per Run 1	0.0513 ppm	0.4811 ppm	0.1919 ppm	0.3371 ppm	1.0096 ppm	12.1857 ppm	0.0028 ppm
Concentration per Run 2	0.0514 ppm	0.4847 ppm	0.1903 ppm	0.3375 ppm	1.0169 ppm	12.2210 ppm	0.0029 ppm
Concentration per Run 3	0.0511 ppm	0.4835 ppm	0.1921 ppm	0.3369 ppm	1.0220 ppm	12.2515 ppm	0.0037 ppm
Concentration RSD	0.3 %	0.4 %	0.5 %	0.1 %	0.6 %	0.3 %	16.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.2302 ppm	0.4939 ppm	0.9287 ppm	92.7940 ppm	0.4769 ppm	0.5289 ppm	0.4152 ppm
Concentration per Run 1	20.2298 ppm	0.4912 ppm	0.9143 ppm	92.5108 ppm	0.4786 ppm	0.5303 ppm	0.4030 ppm
Concentration per Run 2	20.3301 ppm	0.4960 ppm	0.9327 ppm	92.9801 ppm	0.4769 ppm	0.5286 ppm	0.4142 ppm
Concentration per Run 3	20.1308 ppm	0.4944 ppm	0.9391 ppm	92.8911 ppm	0.4752 ppm	0.5279 ppm	0.4284 ppm
Concentration RSD	0.5 %	0.5 %	1.4 %	0.3 %	0.4 %	0.2 %	3.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1231 ppm	7.5789 ppm	0.9229 ppm	1.1971 ppm	1.0061 ppm	0.1185 ppm	0.4985 ppm
Concentration per Run 1	0.1257 ppm	7.5737 ppm	0.9213 ppm	1.1942 ppm	1.0069 ppm	0.1176 ppm	0.4970 ppm
Concentration per Run 2	0.1220 ppm	7.5871 ppm	0.9211 ppm	1.1978 ppm	1.0091 ppm	0.1203 ppm	0.4979 ppm
Concentration per Run 3	0.1217 ppm	7.5759 ppm	0.9262 ppm	1.1993 ppm	1.0022 ppm	0.1177 ppm	0.5006 ppm
Concentration RSD	1.8 %	0.1 %	0.3 %	0.2 %	0.3 %	1.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5429 ppm	102.2349 %	102.2101 %	96.3906 %	99.6129 %	100.6899 %	99.9248 %
Concentration per Run 1	0.5418 ppm	102.8188 %	103.2958 %	96.5783 %	100.4506 %	102.1929 %	100.2518 %
Concentration per Run 2	0.5421 ppm	101.9140 %	102.2139 %	97.0385 %	99.2100 %	100.8052 %	100.3138 %
Concentration per Run 3	0.5448 ppm	101.9719 %	101.1206 %	95.5550 %	99.1782 %	99.0716 %	99.2088 %
Concentration RSD	0.3 %	0.5 %	1.1 %	0.8 %	0.7 %	1.6 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-8 WG1974865
Analysis started at: 9/24/2024 11:18:31 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0037 ppm	0.0019 ppm	0.0455 ppm	0.0075 ppm	0.0000 ppm	73.6487 ppm
Concentration per Run 1	-0.0003 ppm	-0.0084 ppm	-0.0011 ppm	0.0458 ppm	0.0076 ppm	0.0000 ppm	73.5977 ppm
Concentration per Run 2	0.0005 ppm	0.0113 ppm	0.0025 ppm	0.0439 ppm	0.0073 ppm	0.0000 ppm	73.6572 ppm
Concentration per Run 3	0.0006 ppm	-0.0140 ppm	0.0041 ppm	0.0469 ppm	0.0075 ppm	0.0000 ppm	73.6913 ppm
Concentration RSD	192.3 %	359.9 %	144.1 %	3.3 %	1.7 %	307.8 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0004 ppm	-0.0010 ppm	0.0962 ppm	0.0101 ppm	1.8756 ppm	0.0023 ppm
Concentration per Run 1	-0.0003 ppm	0.0010 ppm	-0.0011 ppm	0.0969 ppm	0.0098 ppm	1.8876 ppm	0.0013 ppm
Concentration per Run 2	-0.0002 ppm	0.0003 ppm	-0.0006 ppm	0.0959 ppm	0.0097 ppm	1.8462 ppm	0.0029 ppm
Concentration per Run 3	-0.0003 ppm	-0.0001 ppm	-0.0012 ppm	0.0957 ppm	0.0108 ppm	1.8930 ppm	0.0027 ppm
Concentration RSD	27.9 %	139.5 %	29.2 %	0.6 %	6.3 %	1.4 %	39.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.5327 ppm	0.0004 ppm	0.0043 ppm	83.1426 ppm	0.0012 ppm	0.0012 ppm	0.0064 ppm
Concentration per Run 1	10.5780 ppm	0.0003 ppm	0.0044 ppm	83.2843 ppm	0.0007 ppm	-0.0005 ppm	0.0024 ppm
Concentration per Run 2	10.4730 ppm	0.0005 ppm	0.0040 ppm	83.1884 ppm	0.0014 ppm	0.0022 ppm	0.0076 ppm
Concentration per Run 3	10.5470 ppm	0.0003 ppm	0.0047 ppm	82.9549 ppm	0.0015 ppm	0.0020 ppm	0.0090 ppm
Concentration RSD	0.5 %	37.0 %	8.4 %	0.2 %	39.0 %	124.4 %	54.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0016 ppm	6.8632 ppm	0.0041 ppm	0.2445 ppm	0.0004 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 1	-0.0031 ppm	6.9090 ppm	0.0052 ppm	0.2442 ppm	0.0007 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	6.8401 ppm	0.0042 ppm	0.2453 ppm	0.0003 ppm	0.0036 ppm	0.0003 ppm
Concentration per Run 3	-0.0018 ppm	6.8406 ppm	0.0027 ppm	0.2439 ppm	0.0003 ppm	-0.0001 ppm	0.0001 ppm
Concentration RSD	108.8 %	0.6 %	30.6 %	0.3 %	54.5 %	146.9 %	100.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0497 ppm	100.5177 %	103.2143 %	96.8164 %	99.0762 %	102.3804 %	100.4299 %
Concentration per Run 1	0.0498 ppm	99.6752 %	103.4052 %	96.4039 %	98.5645 %	102.8008 %	99.9141 %
Concentration per Run 2	0.0493 ppm	101.2892 %	102.8203 %	97.7618 %	99.8115 %	101.9194 %	101.3434 %
Concentration per Run 3	0.0500 ppm	100.5888 %	103.4174 %	96.2835 %	98.8527 %	102.4210 %	100.0323 %
Concentration RSD	0.8 %	0.8 %	0.3 %	0.8 %	0.7 %	0.4 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-9 WG1974865
Analysis started at: 9/24/2024 11:22:24 AM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0481 ppm	2.0023 ppm	0.1240 ppm	1.0591 ppm	2.0081 ppm	0.0514 ppm	82.0992 ppm
Concentration per Run 1	0.0482 ppm	1.9964 ppm	0.1246 ppm	1.0625 ppm	2.0019 ppm	0.0513 ppm	81.9620 ppm
Concentration per Run 2	0.0483 ppm	2.0008 ppm	0.1235 ppm	1.0610 ppm	2.0110 ppm	0.0516 ppm	82.2770 ppm
Concentration per Run 3	0.0478 ppm	2.0096 ppm	0.1241 ppm	1.0538 ppm	2.0115 ppm	0.0514 ppm	82.0587 ppm
Concentration RSD	0.5 %	0.3 %	0.5 %	0.4 %	0.3 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0513 ppm	0.4850 ppm	0.1936 ppm	0.3373 ppm	1.0383 ppm	12.5211 ppm	0.0014 ppm
Concentration per Run 1	0.0516 ppm	0.4854 ppm	0.1946 ppm	0.3362 ppm	1.0398 ppm	12.4688 ppm	0.0029 ppm
Concentration per Run 2	0.0511 ppm	0.4842 ppm	0.1940 ppm	0.3364 ppm	1.0334 ppm	12.5438 ppm	0.0008 ppm
Concentration per Run 3	0.0512 ppm	0.4853 ppm	0.1923 ppm	0.3393 ppm	1.0419 ppm	12.5507 ppm	0.0005 ppm
Concentration RSD	0.5 %	0.1 %	0.6 %	0.5 %	0.4 %	0.4 %	95.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.1109 ppm	0.4979 ppm	0.9539 ppm	91.7992 ppm	0.4831 ppm	0.5284 ppm	0.3594 ppm
Concentration per Run 1	20.1312 ppm	0.4991 ppm	0.9404 ppm	91.4717 ppm	0.4837 ppm	0.5276 ppm	0.3469 ppm
Concentration per Run 2	20.0949 ppm	0.4978 ppm	0.9516 ppm	92.0510 ppm	0.4830 ppm	0.5263 ppm	0.3579 ppm
Concentration per Run 3	20.1064 ppm	0.4969 ppm	0.9697 ppm	91.8749 ppm	0.4827 ppm	0.5313 ppm	0.3733 ppm
Concentration RSD	0.1 %	0.2 %	1.5 %	0.3 %	0.1 %	0.5 %	3.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1220 ppm	7.7845 ppm	0.9710 ppm	1.2270 ppm	1.0288 ppm	0.1200 ppm	0.5030 ppm
Concentration per Run 1	0.1225 ppm	7.7745 ppm	0.9682 ppm	1.2246 ppm	1.0329 ppm	0.1193 ppm	0.5030 ppm
Concentration per Run 2	0.1213 ppm	7.7733 ppm	0.9736 ppm	1.2289 ppm	1.0312 ppm	0.1215 ppm	0.5011 ppm
Concentration per Run 3	0.1222 ppm	7.8058 ppm	0.9713 ppm	1.2273 ppm	1.0222 ppm	0.1192 ppm	0.5048 ppm
Concentration RSD	0.5 %	0.2 %	0.3 %	0.2 %	0.6 %	1.1 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5495 ppm	102.3566 %	102.9033 %	96.6009 %	99.9497 %	101.6251 %	99.9300 %
Concentration per Run 1	0.5519 ppm	101.8546 %	104.4856 %	96.7921 %	99.5079 %	103.1163 %	99.8856 %
Concentration per Run 2	0.5487 ppm	102.5342 %	102.3309 %	96.7184 %	99.9592 %	101.2127 %	100.0463 %
Concentration per Run 3	0.5479 ppm	102.6812 %	101.8935 %	96.2921 %	100.3820 %	100.5464 %	99.8582 %
Concentration RSD	0.4 %	0.4 %	1.3 %	0.3 %	0.4 %	1.3 %	0.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974865-10D5 WG1974865
Analysis started at: 9/24/2024 11:26:17 AM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0005 ppm	0.0019 ppm	0.0109 ppm	0.0015 ppm	0.0000 ppm	14.8618 ppm
Concentration per Run 1	0.0001 ppm	-0.0041 ppm	0.0004 ppm	0.0097 ppm	0.0016 ppm	0.0000 ppm	14.8342 ppm
Concentration per Run 2	0.0008 ppm	0.0013 ppm	0.0017 ppm	0.0119 ppm	0.0015 ppm	0.0000 ppm	14.8611 ppm
Concentration per Run 3	-0.0003 ppm	0.0044 ppm	0.0036 ppm	0.0111 ppm	0.0016 ppm	0.0000 ppm	14.8900 ppm
Concentration RSD	260.5 %	832.6 %	82.7 %	10.6 %	3.9 %	690.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0006 ppm	-0.0001 ppm	0.0191 ppm	0.0053 ppm	0.3776 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0000 ppm	0.0192 ppm	0.0050 ppm	0.3907 ppm	0.0016 ppm
Concentration per Run 2	0.0001 ppm	-0.0007 ppm	0.0001 ppm	0.0190 ppm	0.0077 ppm	0.3635 ppm	0.0014 ppm
Concentration per Run 3	-0.0001 ppm	-0.0009 ppm	-0.0003 ppm	0.0191 ppm	0.0031 ppm	0.3788 ppm	-0.0003 ppm
Concentration RSD	1,627.2 %	42.5 %	269.1 %	0.7 %	43.0 %	3.6 %	120.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1195 ppm	0.0003 ppm	0.0047 ppm	16.6188 ppm	0.0000 ppm	-0.0002 ppm	0.0105 ppm
Concentration per Run 1	2.1184 ppm	0.0003 ppm	0.0053 ppm	16.5533 ppm	0.0000 ppm	0.0001 ppm	0.0118 ppm
Concentration per Run 2	2.1221 ppm	0.0007 ppm	0.0046 ppm	16.6401 ppm	-0.0005 ppm	-0.0007 ppm	0.0105 ppm
Concentration per Run 3	2.1179 ppm	0.0001 ppm	0.0042 ppm	16.6631 ppm	0.0003 ppm	0.0001 ppm	0.0092 ppm
Concentration RSD	0.1 %	91.0 %	12.4 %	0.3 %	884.5 %	251.0 %	12.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	1.3367 ppm	0.0139 ppm	0.0483 ppm	0.0009 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	1.3327 ppm	0.0150 ppm	0.0482 ppm	0.0007 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run 2	-0.0048 ppm	1.3377 ppm	0.0134 ppm	0.0482 ppm	0.0006 ppm	0.0027 ppm	-0.0003 ppm
Concentration per Run 3	-0.0002 ppm	1.3398 ppm	0.0132 ppm	0.0484 ppm	0.0013 ppm	0.0013 ppm	0.0000 ppm
Concentration RSD	164.2 %	0.3 %	7.3 %	0.2 %	46.9 %	47.3 %	77.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0091 ppm	105.5544 %	103.5405 %	102.5020 %	103.2025 %	102.3139 %	103.1347 %
Concentration per Run 1	0.0088 ppm	104.6716 %	103.9433 %	102.6298 %	102.8009 %	102.7875 %	103.4096 %
Concentration per Run 2	0.0093 ppm	105.9506 %	102.8629 %	102.8614 %	103.5230 %	101.5967 %	103.8601 %
Concentration per Run 3	0.0091 ppm	106.0408 %	103.8154 %	102.0147 %	103.2835 %	102.5575 %	102.1344 %
Concentration RSD	2.9 %	0.7 %	0.6 %	0.4 %	0.4 %	0.6 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 11:30:11 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5025 ppm	0.4766 ppm	0.4749 ppm	0.4899 ppm	0.4864 ppm	0.5007 ppm	0.4820 ppm
Concentration per Run 1	0.5019 ppm	0.4687 ppm	0.4754 ppm	0.4925 ppm	0.4883 ppm	0.5014 ppm	0.4841 ppm
Concentration per Run 2	0.5037 ppm	0.4654 ppm	0.4767 ppm	0.4932 ppm	0.4880 ppm	0.5013 ppm	0.4829 ppm
Concentration per Run 3	0.5019 ppm	0.4958 ppm	0.4725 ppm	0.4838 ppm	0.4831 ppm	0.4993 ppm	0.4791 ppm
Recovery Percentage 1	100.500 %	95.326 %	94.975 %	97.973 %	97.289 %	100.131 %	96.402 %
Concentration RSD	0.2 %	3.5 %	0.5 %	1.1 %	0.6 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4930 ppm	0.5035 ppm	0.4815 ppm	0.4856 ppm	0.4938 ppm	5.0857 ppm	0.4831 ppm
Concentration per Run 1	0.4931 ppm	0.5048 ppm	0.4812 ppm	0.4874 ppm	0.4947 ppm	5.1207 ppm	0.4822 ppm
Concentration per Run 2	0.4993 ppm	0.5072 ppm	0.4819 ppm	0.4873 ppm	0.4964 ppm	5.0799 ppm	0.4847 ppm
Concentration per Run 3	0.4866 ppm	0.4986 ppm	0.4813 ppm	0.4822 ppm	0.4904 ppm	5.0564 ppm	0.4824 ppm
Recovery Percentage 1	98.598 %	100.709 %	96.296 %	97.125 %	98.761 %	101.714 %	96.625 %
Concentration RSD	1.3 %	0.9 %	0.1 %	0.6 %	0.6 %	0.6 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4822 ppm	0.4792 ppm	0.4835 ppm	9.7656 ppm	0.5011 ppm	0.4883 ppm	0.5063 ppm
Concentration per Run 1	0.4809 ppm	0.4786 ppm	0.4817 ppm	9.7286 ppm	0.5020 ppm	0.4884 ppm	0.5099 ppm
Concentration per Run 2	0.4834 ppm	0.4796 ppm	0.4863 ppm	9.7561 ppm	0.5028 ppm	0.4879 ppm	0.4995 ppm
Concentration per Run 3	0.4822 ppm	0.4792 ppm	0.4823 ppm	9.8121 ppm	0.4984 ppm	0.4887 ppm	0.5096 ppm
Recovery Percentage 1	96.437 %	95.836 %	96.690 %	97.656 %	100.218 %	97.668 %	101.269 %
Concentration RSD	0.3 %	0.1 %	0.5 %	0.4 %	0.5 %	0.1 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4861 ppm	5.2412 ppm	0.4802 ppm	0.4660 ppm	0.4921 ppm	0.4905 ppm	0.4780 ppm
Concentration per Run 1	0.4884 ppm	5.2323 ppm	0.4806 ppm	0.4673 ppm	0.4912 ppm	0.4875 ppm	0.4764 ppm
Concentration per Run 2	0.4849 ppm	5.2672 ppm	0.4816 ppm	0.4670 ppm	0.4939 ppm	0.4904 ppm	0.4805 ppm
Concentration per Run 3	0.4850 ppm	5.2242 ppm	0.4785 ppm	0.4637 ppm	0.4914 ppm	0.4935 ppm	0.4771 ppm
Recovery Percentage 1	97.227 %	99.833 %	96.046 %	93.197 %	98.430 %	98.092 %	95.597 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.4 %	0.3 %	0.6 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4979 ppm	104.3482 %	104.1782 %	104.4863 %	101.8045 %	103.0317 %	104.2978 %
Concentration per Run 1	0.4988 ppm	103.7997 %	104.2610 %	103.9831 %	101.3356 %	103.0698 %	103.9451 %
Concentration per Run 2	0.4984 ppm	104.0561 %	104.1594 %	104.9340 %	101.6458 %	102.7998 %	104.7256 %
Concentration per Run 3	0.4965 ppm	105.1887 %	104.1143 %	104.5419 %	102.4319 %	103.2257 %	104.2228 %
Recovery Percentage 1	99.583 %						
Concentration RSD	0.2 %	0.7 %	0.1 %	0.5 %	0.6 %	0.2 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 11:34:05 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0022 ppm	0.0035 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 1	0.0007 ppm	0.0055 ppm	0.0054 ppm	0.0029 ppm	-0.0001 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	0.0004 ppm	-0.0094 ppm	0.0032 ppm	0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0005 ppm	0.0106 ppm	0.0020 ppm	-0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0035 ppm
Recovery Percentage 1	7.719 %	2.227 %	70.922 %	3.270 %	-1.477 %	0.304 %	-1.612 %
Concentration RSD	22.5 %	466.9 %	48.2 %	198.7 %	41.1 %	2.7 %	108.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	-0.0001 ppm	-0.0001 ppm	0.0042 ppm	-0.0168 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	-0.0004 ppm	0.0028 ppm	-0.0273 ppm	0.0009 ppm
Concentration per Run 2	0.0002 ppm	-0.0009 ppm	0.0001 ppm	-0.0002 ppm	0.0058 ppm	-0.0173 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0038 ppm	-0.0058 ppm	-0.0003 ppm
Recovery Percentage 1	2.363 %	-1.658 %	-1.421 %	-1.059 %	8.337 %	-0.672 %	12.934 %
Concentration RSD	89.8 %	158.0 %	173.0 %	306.2 %	36.8 %	64.3 %	133.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0009 ppm	0.0001 ppm	0.0019 ppm	0.0007 ppm	0.0003 ppm	-0.0002 ppm	0.0046 ppm
Concentration per Run 1	-0.0025 ppm	0.0000 ppm	0.0015 ppm	-0.0073 ppm	0.0005 ppm	-0.0001 ppm	0.0052 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0023 ppm	0.0001 ppm	-0.0005 ppm	0.0068 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0026 ppm	0.0072 ppm	0.0004 ppm	0.0001 ppm	0.0019 ppm
Recovery Percentage 1	-0.864 %	0.739 %	3.760 %	0.037 %	1.371 %	-1.742 %	9.256 %
Concentration RSD	164.2 %	136.1 %	32.7 %	987.0 %	75.0 %	166.5 %	54.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	-0.0022 ppm	0.0007 ppm	0.0001 ppm	0.0004 ppm	0.0011 ppm	-0.0003 ppm
Concentration per Run 1	-0.0036 ppm	-0.0032 ppm	0.0009 ppm	0.0001 ppm	0.0006 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0013 ppm	0.0000 ppm	0.0013 ppm	0.0003 ppm	0.0002 ppm	0.0012 ppm	-0.0005 ppm
Concentration per Run 3	0.0004 ppm	-0.0036 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0023 ppm	-0.0002 ppm
Recovery Percentage 1	-6.172 %	-0.449 %	1.477 %	1.364 %	4.042 %	5.634 %	-3.084 %
Concentration RSD	420.7 %	86.4 %	91.9 %	135.1 %	50.2 %	108.8 %	60.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	103.9729 %	102.3176 %	103.9246 %	103.3155 %	102.5747 %	104.3243 %
Concentration per Run 1	-0.0016 ppm	103.8040 %	102.4372 %	103.8137 %	103.0088 %	102.5446 %	104.4234 %
Concentration per Run 2	-0.0014 ppm	103.4255 %	102.2807 %	103.2362 %	102.9548 %	102.5728 %	103.6715 %
Concentration per Run 3	-0.0017 ppm	104.6893 %	102.2347 %	104.7238 %	103.9828 %	102.6069 %	104.8782 %
Recovery Percentage 1	-31.477 %						
Concentration RSD	10.2 %	0.6 %	0.1 %	0.7 %	0.6 %	0.0 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-1 WG1975353
Analysis started at: 9/24/2024 11:39:09 AM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0154 ppm	0.0023 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0134 ppm
Concentration per Run 1	-0.0001 ppm	0.0115 ppm	0.0012 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 2	0.0008 ppm	0.0238 ppm	0.0025 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	0.0173 ppm
Concentration per Run 3	0.0008 ppm	0.0110 ppm	0.0032 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0137 ppm
Recovery Percentage 1	6.916 %	15.445 %	46.194 %	3.114 %	-0.875 %	-0.503 %	13.422 %
Concentration RSD	103.1 %	46.6 %	45.3 %	98.6 %	91.7 %	168.8 %	30.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm	0.0176 ppm	0.0092 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm	0.0171 ppm	-0.0063 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	-0.0005 ppm	-0.0003 ppm	0.0191 ppm	0.0301 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0009 ppm	-0.0002 ppm	0.0167 ppm	0.0040 ppm	0.0014 ppm
Recovery Percentage 1	0.345 %	-0.391 %	-6.927 %	-2.158 %	35.266 %	0.370 %	13.734 %
Concentration RSD	231.0 %	350.4 %	29.5 %	23.8 %	7.2 %	203.2 %	102.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0022 ppm	0.0002 ppm	0.0002 ppm	0.0075 ppm	-0.0004 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 1	0.0031 ppm	0.0005 ppm	0.0002 ppm	0.0047 ppm	-0.0006 ppm	0.0003 ppm	-0.0011 ppm
Concentration per Run 2	0.0029 ppm	0.0003 ppm	0.0004 ppm	0.0120 ppm	-0.0002 ppm	-0.0002 ppm	-0.0028 ppm
Concentration per Run 3	0.0006 ppm	-0.0001 ppm	-0.0001 ppm	0.0058 ppm	-0.0003 ppm	-0.0006 ppm	0.0022 ppm
Recovery Percentage 1	2.194 %	2.468 %	0.395 %	0.374 %	-1.503 %	-1.687 %	-1.134 %
Concentration RSD	63.3 %	114.2 %	130.4 %	52.6 %	60.9 %	268.1 %	446.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0035 ppm	-0.0010 ppm	0.0003 ppm	0.0005 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0006 ppm	0.0022 ppm	-0.0002 ppm	0.0003 ppm	0.0005 ppm	-0.0008 ppm	-0.0001 ppm
Concentration per Run 2	-0.0011 ppm	0.0035 ppm	-0.0007 ppm	0.0003 ppm	0.0003 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 3	-0.0031 ppm	0.0048 ppm	-0.0021 ppm	0.0002 ppm	0.0006 ppm	-0.0015 ppm	-0.0004 ppm
Recovery Percentage 1	-12.326 %	0.700 %	-1.977 %	2.671 %	4.802 %	-1.798 %	-2.229 %
Concentration RSD	150.6 %	37.0 %	98.4 %	18.2 %	27.9 %	395.0 %	67.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	106.8600 %	107.6036 %	105.3138 %	104.7432 %	107.1916 %	105.6307 %
Concentration per Run 1	0.0000 ppm	107.0069 %	107.8828 %	105.3541 %	104.4833 %	107.5884 %	105.6169 %
Concentration per Run 2	-0.0004 ppm	107.6066 %	107.9326 %	105.4208 %	105.5846 %	107.4659 %	105.5150 %
Concentration per Run 3	-0.0001 ppm	105.9666 %	106.9954 %	105.1664 %	104.1618 %	106.5204 %	105.7601 %
Recovery Percentage 1	-3.708 %						
Concentration RSD	109.1 %	0.8 %	0.5 %	0.1 %	0.7 %	0.5 %	0.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-2D2 WG1975353
Analysis started at: 9/24/2024 11:43:11 AM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0543 ppm	2.0175 ppm	0.1283 ppm	1.0478 ppm	2.0379 ppm	0.0524 ppm	10.2822 ppm
Concentration per Run 1	0.0546 ppm	2.0402 ppm	0.1284 ppm	1.0511 ppm	2.0557 ppm	0.0527 ppm	10.3371 ppm
Concentration per Run 2	0.0541 ppm	1.9992 ppm	0.1295 ppm	1.0444 ppm	2.0363 ppm	0.0524 ppm	10.2773 ppm
Concentration per Run 3	0.0541 ppm	2.0131 ppm	0.1270 ppm	1.0479 ppm	2.0216 ppm	0.0522 ppm	10.2323 ppm
Concentration RSD	0.6 %	1.0 %	1.0 %	0.3 %	0.8 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0555 ppm	0.5360 ppm	0.2098 ppm	0.2684 ppm	1.0581 ppm	10.5153 ppm	0.0009 ppm
Concentration per Run 1	0.0559 ppm	0.5390 ppm	0.2097 ppm	0.2706 ppm	1.0655 ppm	10.6042 ppm	0.0015 ppm
Concentration per Run 2	0.0550 ppm	0.5337 ppm	0.2108 ppm	0.2679 ppm	1.0573 ppm	10.4902 ppm	0.0006 ppm
Concentration per Run 3	0.0556 ppm	0.5355 ppm	0.2088 ppm	0.2666 ppm	1.0515 ppm	10.4514 ppm	0.0006 ppm
Concentration RSD	0.8 %	0.5 %	0.5 %	0.8 %	0.7 %	0.8 %	60.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.6428 ppm	0.5178 ppm	1.0646 ppm	10.3753 ppm	0.5365 ppm	0.5607 ppm	0.5403 ppm
Concentration per Run 1	10.6780 ppm	0.5208 ppm	1.0604 ppm	10.4804 ppm	0.5364 ppm	0.5601 ppm	0.5431 ppm
Concentration per Run 2	10.6638 ppm	0.5167 ppm	1.0653 ppm	10.3848 ppm	0.5370 ppm	0.5602 ppm	0.5455 ppm
Concentration per Run 3	10.5867 ppm	0.5158 ppm	1.0680 ppm	10.2608 ppm	0.5363 ppm	0.5617 ppm	0.5322 ppm
Concentration RSD	0.5 %	0.5 %	0.4 %	1.1 %	0.1 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1250 ppm	0.7722 ppm	1.0326 ppm	0.9842 ppm	1.0690 ppm	0.1271 ppm	0.5334 ppm
Concentration per Run 1	0.1249 ppm	0.7765 ppm	1.0336 ppm	0.9908 ppm	1.0697 ppm	0.1274 ppm	0.5347 ppm
Concentration per Run 2	0.1198 ppm	0.7776 ppm	1.0271 ppm	0.9843 ppm	1.0684 ppm	0.1254 ppm	0.5320 ppm
Concentration per Run 3	0.1302 ppm	0.7625 ppm	1.0371 ppm	0.9776 ppm	1.0689 ppm	0.1284 ppm	0.5334 ppm
Concentration RSD	4.2 %	1.1 %	0.5 %	0.7 %	0.1 %	1.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5334 ppm	105.5219 %	106.0521 %	103.6399 %	102.9445 %	105.0557 %	103.9798 %
Concentration per Run 1	0.5332 ppm	106.2447 %	105.8413 %	103.5737 %	103.6779 %	104.8625 %	103.6679 %
Concentration per Run 2	0.5325 ppm	105.2849 %	106.7891 %	104.3200 %	102.5083 %	105.6843 %	105.0346 %
Concentration per Run 3	0.5343 ppm	105.0360 %	105.5259 %	103.0260 %	102.6474 %	104.6202 %	103.2370 %
Concentration RSD	0.2 %	0.6 %	0.6 %	0.6 %	0.6 %	0.5 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454601-01 WG1975349
Analysis started at: 9/24/2024 11:47:04 AM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	0.0733 ppm	0.0058 ppm	0.0074 ppm	0.0079 ppm	0.0000 ppm	2.9383 ppm
Concentration per Run 1	0.0009 ppm	0.0705 ppm	0.0059 ppm	0.0081 ppm	0.0080 ppm	0.0000 ppm	2.9515 ppm
Concentration per Run 2	0.0005 ppm	0.0802 ppm	0.0058 ppm	0.0058 ppm	0.0079 ppm	0.0000 ppm	2.9392 ppm
Concentration per Run 3	0.0006 ppm	0.0692 ppm	0.0056 ppm	0.0083 ppm	0.0078 ppm	0.0000 ppm	2.9241 ppm
Concentration RSD	26.6 %	8.2 %	2.4 %	18.7 %	1.1 %	1,050.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0006 ppm	0.0000 ppm	0.0190 ppm	0.1158 ppm	0.7576 ppm	0.0016 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	-0.0002 ppm	0.0186 ppm	0.1178 ppm	0.7900 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	-0.0013 ppm	0.0001 ppm	0.0195 ppm	0.1139 ppm	0.7373 ppm	0.0010 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0189 ppm	0.1157 ppm	0.7454 ppm	0.0013 ppm
Concentration RSD	93.3 %	89.7 %	530.9 %	2.5 %	1.7 %	3.7 %	48.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.2176 ppm	0.0048 ppm	0.0042 ppm	4.0883 ppm	0.0008 ppm	0.0037 ppm	0.0093 ppm
Concentration per Run 1	0.2171 ppm	0.0048 ppm	0.0055 ppm	4.1032 ppm	0.0011 ppm	0.0044 ppm	0.0070 ppm
Concentration per Run 2	0.2178 ppm	0.0049 ppm	0.0039 ppm	4.1013 ppm	0.0007 ppm	0.0041 ppm	0.0104 ppm
Concentration per Run 3	0.2179 ppm	0.0047 ppm	0.0033 ppm	4.0604 ppm	0.0008 ppm	0.0025 ppm	0.0106 ppm
Concentration RSD	0.2 %	1.9 %	27.2 %	0.6 %	24.0 %	28.5 %	21.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.3119 ppm	0.0198 ppm	0.0074 ppm	0.0039 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 1	-0.0020 ppm	0.3089 ppm	0.0207 ppm	0.0074 ppm	0.0038 ppm	-0.0017 ppm	0.0001 ppm
Concentration per Run 2	0.0009 ppm	0.3115 ppm	0.0209 ppm	0.0074 ppm	0.0043 ppm	-0.0032 ppm	-0.0002 ppm
Concentration per Run 3	0.0017 ppm	0.3152 ppm	0.0177 ppm	0.0073 ppm	0.0037 ppm	-0.0003 ppm	-0.0002 ppm
Concentration RSD	915.8 %	1.0 %	9.1 %	0.6 %	8.1 %	80.8 %	133.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0563 ppm	111.6294 %	111.9328 %	105.7730 %	108.9858 %	111.0638 %	107.5580 %
Concentration per Run 1	0.0565 ppm	111.5675 %	111.2639 %	106.4526 %	109.0457 %	110.7400 %	107.9475 %
Concentration per Run 2	0.0557 ppm	111.9947 %	112.0464 %	105.2969 %	109.4543 %	111.1377 %	107.2266 %
Concentration per Run 3	0.0568 ppm	111.3261 %	112.4881 %	105.5697 %	108.4575 %	111.3137 %	107.4998 %
Concentration RSD	1.0 %	0.3 %	0.6 %	0.6 %	0.5 %	0.3 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453255-01 WG1974865
Analysis started at: 9/24/2024 11:50:57 AM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.2127 ppm	-0.0001 ppm	0.0193 ppm	0.0188 ppm	0.0000 ppm	33.5583 ppm
Concentration per Run 1	0.0004 ppm	0.2066 ppm	0.0016 ppm	0.0194 ppm	0.0190 ppm	-0.0001 ppm	33.6184 ppm
Concentration per Run 2	0.0004 ppm	0.2227 ppm	-0.0001 ppm	0.0189 ppm	0.0188 ppm	0.0000 ppm	33.5983 ppm
Concentration per Run 3	-0.0004 ppm	0.2088 ppm	-0.0019 ppm	0.0197 ppm	0.0187 ppm	0.0000 ppm	33.4583 ppm
Concentration RSD	319.7 %	4.1 %	1,550.4 %	2.1 %	0.7 %	403.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0010 ppm	0.0006 ppm	0.0031 ppm	1.4358 ppm	0.0028 ppm
Concentration per Run 1	-0.0002 ppm	-0.0002 ppm	-0.0012 ppm	0.0006 ppm	0.0014 ppm	1.4609 ppm	0.0032 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0014 ppm	0.0006 ppm	0.0029 ppm	1.4344 ppm	0.0028 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0006 ppm	0.0050 ppm	1.4120 ppm	0.0023 ppm
Concentration RSD	226.4 %	505.6 %	55.2 %	6.2 %	58.8 %	1.7 %	16.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.5371 ppm	0.0007 ppm	0.0011 ppm	9.5463 ppm	0.0006 ppm	0.0002 ppm	-0.0018 ppm
Concentration per Run 1	8.5351 ppm	0.0006 ppm	0.0007 ppm	9.5264 ppm	-0.0001 ppm	0.0002 ppm	-0.0028 ppm
Concentration per Run 2	8.5246 ppm	0.0009 ppm	0.0010 ppm	9.5584 ppm	0.0007 ppm	0.0009 ppm	-0.0044 ppm
Concentration per Run 3	8.5515 ppm	0.0007 ppm	0.0015 ppm	9.5541 ppm	0.0011 ppm	-0.0003 ppm	0.0018 ppm
Concentration RSD	0.2 %	24.3 %	37.1 %	0.2 %	108.2 %	257.5 %	176.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0049 ppm	0.3562 ppm	-0.0030 ppm	0.1506 ppm	0.0006 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 1	-0.0049 ppm	0.3583 ppm	-0.0034 ppm	0.1505 ppm	0.0002 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 2	-0.0056 ppm	0.3565 ppm	-0.0023 ppm	0.1507 ppm	0.0008 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 3	-0.0043 ppm	0.3539 ppm	-0.0033 ppm	0.1505 ppm	0.0008 ppm	0.0003 ppm	-0.0001 ppm
Concentration RSD	12.7 %	0.6 %	20.6 %	0.1 %	58.4 %	85.2 %	60.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	102.9807 %	102.9901 %	102.1659 %	101.8893 %	102.7332 %	103.1369 %
Concentration per Run 1	0.0015 ppm	102.8002 %	103.2336 %	102.3085 %	102.4631 %	103.2923 %	103.2265 %
Concentration per Run 2	0.0018 ppm	104.0928 %	102.6925 %	101.5409 %	102.9868 %	102.2763 %	102.6212 %
Concentration per Run 3	0.0016 ppm	102.0490 %	103.0442 %	102.6482 %	100.2181 %	102.6311 %	103.5630 %
Concentration RSD	8.5 %	1.0 %	0.3 %	0.6 %	1.4 %	0.5 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453252-04 WG1974865
Analysis started at: 9/24/2024 11:54:52 AM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0047 ppm	0.0024 ppm	0.0513 ppm	0.0555 ppm	0.0000 ppm	60.2960 ppm
Concentration per Run 1	0.0004 ppm	0.0020 ppm	0.0031 ppm	0.0495 ppm	0.0561 ppm	-0.0001 ppm	60.5621 ppm
Concentration per Run 2	0.0002 ppm	-0.0207 ppm	0.0022 ppm	0.0525 ppm	0.0551 ppm	0.0000 ppm	60.2522 ppm
Concentration per Run 3	0.0007 ppm	0.0047 ppm	0.0020 ppm	0.0518 ppm	0.0551 ppm	0.0000 ppm	60.0737 ppm
Concentration RSD	52.0 %	300.1 %	24.7 %	3.1 %	1.0 %	195.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0001 ppm	-0.0009 ppm	0.0055 ppm	0.1590 ppm	0.8251 ppm	0.0472 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	-0.0014 ppm	0.0056 ppm	0.1596 ppm	0.8413 ppm	0.0479 ppm
Concentration per Run 2	-0.0003 ppm	0.0007 ppm	-0.0006 ppm	0.0055 ppm	0.1569 ppm	0.8388 ppm	0.0468 ppm
Concentration per Run 3	-0.0002 ppm	-0.0007 ppm	-0.0007 ppm	0.0053 ppm	0.1604 ppm	0.7953 ppm	0.0468 ppm
Concentration RSD	12.3 %	520.9 %	48.1 %	2.3 %	1.2 %	3.1 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.5403 ppm	0.1495 ppm	0.0013 ppm	25.4293 ppm	-0.0002 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 1	8.5681 ppm	0.1488 ppm	0.0011 ppm	25.5373 ppm	-0.0005 ppm	0.0013 ppm	0.0051 ppm
Concentration per Run 2	8.5604 ppm	0.1504 ppm	0.0014 ppm	25.3518 ppm	0.0000 ppm	-0.0004 ppm	-0.0029 ppm
Concentration per Run 3	8.4924 ppm	0.1492 ppm	0.0014 ppm	25.3990 ppm	-0.0001 ppm	0.0001 ppm	0.0014 ppm
Concentration RSD	0.5 %	0.5 %	13.5 %	0.4 %	116.5 %	254.6 %	326.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	5.4710 ppm	-0.0034 ppm	0.2720 ppm	0.0006 ppm	0.0009 ppm	-0.0002 ppm
Concentration per Run 1	-0.0021 ppm	5.5221 ppm	-0.0027 ppm	0.2736 ppm	0.0005 ppm	0.0021 ppm	-0.0002 ppm
Concentration per Run 2	0.0008 ppm	5.4729 ppm	-0.0045 ppm	0.2715 ppm	0.0006 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 3	-0.0037 ppm	5.4179 ppm	-0.0029 ppm	0.2709 ppm	0.0008 ppm	0.0004 ppm	-0.0003 ppm
Concentration RSD	135.7 %	1.0 %	30.3 %	0.5 %	27.9 %	107.1 %	31.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0052 ppm	102.5053 %	103.0561 %	99.5311 %	101.2703 %	102.9196 %	102.1004 %
Concentration per Run 1	0.0052 ppm	101.9680 %	102.1478 %	99.3683 %	101.2355 %	101.9869 %	102.0095 %
Concentration per Run 2	0.0052 ppm	103.0019 %	103.0511 %	99.0270 %	101.7097 %	103.0342 %	101.8267 %
Concentration per Run 3	0.0051 ppm	102.5460 %	103.9694 %	100.1981 %	100.8657 %	103.7375 %	102.4650 %
Concentration RSD	1.2 %	0.5 %	0.9 %	0.6 %	0.4 %	0.9 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453252-05 WG1974865
Analysis started at: 9/24/2024 11:58:45 AM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0037 ppm	0.0018 ppm	0.0051 ppm	0.0071 ppm	0.0000 ppm	24.6559 ppm
Concentration per Run 1	0.0008 ppm	0.0108 ppm	0.0042 ppm	0.0048 ppm	0.0072 ppm	0.0000 ppm	24.6354 ppm
Concentration per Run 2	0.0005 ppm	0.0017 ppm	-0.0005 ppm	0.0060 ppm	0.0070 ppm	0.0000 ppm	24.5394 ppm
Concentration per Run 3	-0.0003 ppm	-0.0013 ppm	0.0018 ppm	0.0046 ppm	0.0070 ppm	0.0000 ppm	24.7929 ppm
Concentration RSD	167.4 %	169.9 %	131.0 %	14.6 %	1.9 %	253.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0008 ppm	0.2010 ppm	0.0046 ppm	1.1588 ppm	0.0052 ppm
Concentration per Run 1	-0.0002 ppm	-0.0004 ppm	-0.0010 ppm	0.2017 ppm	0.0047 ppm	1.1601 ppm	0.0070 ppm
Concentration per Run 2	0.0001 ppm	0.0013 ppm	-0.0009 ppm	0.2011 ppm	0.0048 ppm	1.1380 ppm	0.0049 ppm
Concentration per Run 3	-0.0001 ppm	-0.0007 ppm	-0.0005 ppm	0.2000 ppm	0.0044 ppm	1.1782 ppm	0.0037 ppm
Concentration RSD	146.6 %	1,161.4 %	35.7 %	0.4 %	3.8 %	1.7 %	32.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.9856 ppm	0.0020 ppm	0.0000 ppm	2.7075 ppm	0.0002 ppm	-0.0002 ppm	-0.0012 ppm
Concentration per Run 1	1.9959 ppm	0.0018 ppm	0.0001 ppm	2.7239 ppm	0.0008 ppm	-0.0004 ppm	-0.0010 ppm
Concentration per Run 2	1.9792 ppm	0.0021 ppm	-0.0002 ppm	2.6641 ppm	-0.0005 ppm	-0.0004 ppm	-0.0015 ppm
Concentration per Run 3	1.9816 ppm	0.0020 ppm	0.0001 ppm	2.7347 ppm	0.0002 ppm	0.0003 ppm	-0.0011 ppm
Concentration RSD	0.5 %	8.0 %	4,051.2 %	1.4 %	375.7 %	220.2 %	24.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0038 ppm	4.8230 ppm	-0.0029 ppm	0.0874 ppm	0.0005 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0061 ppm	4.8489 ppm	-0.0019 ppm	0.0879 ppm	0.0007 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 2	-0.0031 ppm	4.8123 ppm	-0.0027 ppm	0.0863 ppm	0.0005 ppm	0.0013 ppm	-0.0002 ppm
Concentration per Run 3	-0.0023 ppm	4.8077 ppm	-0.0041 ppm	0.0880 ppm	0.0004 ppm	-0.0011 ppm	-0.0002 ppm
Concentration RSD	52.1 %	0.5 %	37.2 %	1.1 %	20.5 %	5,800.9 %	23.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0282 ppm	104.2573 %	104.5024 %	103.1735 %	103.1031 %	104.0780 %	104.1064 %
Concentration per Run 1	0.0284 ppm	103.6234 %	104.0662 %	103.3825 %	102.8764 %	103.2984 %	104.6188 %
Concentration per Run 2	0.0284 ppm	104.9959 %	105.5239 %	103.5742 %	103.8038 %	105.5218 %	104.3133 %
Concentration per Run 3	0.0278 ppm	104.1527 %	103.9172 %	102.5638 %	102.6293 %	103.4138 %	103.3869 %
Concentration RSD	1.3 %	0.7 %	0.8 %	0.5 %	0.6 %	1.2 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453252-06 WG1974865
Analysis started at: 9/24/2024 12:02:39 PM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0054 ppm	0.0022 ppm	0.0072 ppm	0.0120 ppm	0.0000 ppm	45.5378 ppm
Concentration per Run 1	0.0008 ppm	-0.0109 ppm	0.0011 ppm	0.0082 ppm	0.0122 ppm	0.0000 ppm	45.5387 ppm
Concentration per Run 2	0.0005 ppm	0.0018 ppm	0.0031 ppm	0.0064 ppm	0.0119 ppm	0.0000 ppm	45.3007 ppm
Concentration per Run 3	0.0000 ppm	-0.0071 ppm	0.0024 ppm	0.0069 ppm	0.0120 ppm	0.0000 ppm	45.7739 ppm
Concentration RSD	99.5 %	120.9 %	44.7 %	13.0 %	1.4 %	303.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0003 ppm	-0.0004 ppm	0.0180 ppm	0.1235 ppm	0.5850 ppm	0.0208 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	-0.0003 ppm	0.0182 ppm	0.1258 ppm	0.6006 ppm	0.0207 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0005 ppm	0.0180 ppm	0.1201 ppm	0.5691 ppm	0.0201 ppm
Concentration per Run 3	-0.0003 ppm	0.0006 ppm	-0.0003 ppm	0.0178 ppm	0.1247 ppm	0.5852 ppm	0.0217 ppm
Concentration RSD	127.8 %	89.0 %	36.9 %	1.2 %	2.5 %	2.7 %	3.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.6909 ppm	0.0002 ppm	0.0005 ppm	3.3187 ppm	0.0000 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 1	5.7002 ppm	0.0005 ppm	0.0004 ppm	3.3266 ppm	0.0001 ppm	0.0020 ppm	0.0004 ppm
Concentration per Run 2	5.6983 ppm	0.0000 ppm	0.0005 ppm	3.3040 ppm	-0.0005 ppm	0.0009 ppm	-0.0047 ppm
Concentration per Run 3	5.6743 ppm	0.0002 ppm	0.0005 ppm	3.3256 ppm	0.0003 ppm	0.0014 ppm	0.0052 ppm
Concentration RSD	0.3 %	90.6 %	17.6 %	0.4 %	1,132.2 %	38.5 %	1,586.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	5.3344 ppm	-0.0023 ppm	0.1840 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0025 ppm	5.3430 ppm	-0.0034 ppm	0.1846 ppm	0.0003 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	5.3302 ppm	-0.0027 ppm	0.1835 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0020 ppm	5.3300 ppm	-0.0009 ppm	0.1840 ppm	0.0000 ppm	0.0012 ppm	-0.0002 ppm
Concentration RSD	1,800.9 %	0.1 %	53.7 %	0.3 %	81.6 %	216.9 %	15,361.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0025 ppm	102.5789 %	102.6595 %	100.6866 %	101.4925 %	102.2772 %	102.2418 %
Concentration per Run 1	0.0026 ppm	102.0889 %	102.5010 %	101.4551 %	101.4396 %	102.0166 %	102.5104 %
Concentration per Run 2	0.0026 ppm	102.4149 %	103.7010 %	100.3245 %	101.2482 %	103.2008 %	102.1559 %
Concentration per Run 3	0.0024 ppm	103.2329 %	101.7765 %	100.2801 %	101.7897 %	101.6141 %	102.0590 %
Concentration RSD	3.3 %	0.6 %	0.9 %	0.7 %	0.3 %	0.8 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454641-01D2 WG1975353
Analysis started at: 9/24/2024 12:06:33 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	76.5893 ppm	0.0568 ppm	0.0036 ppm	0.4303 ppm	0.0037 ppm	4.9185 ppm
Concentration per Run 1	0.0015 ppm	76.6655 ppm	0.0559 ppm	0.0023 ppm	0.4298 ppm	0.0036 ppm	4.9325 ppm
Concentration per Run 2	0.0017 ppm	76.6565 ppm	0.0557 ppm	0.0035 ppm	0.4319 ppm	0.0037 ppm	4.9126 ppm
Concentration per Run 3	0.0019 ppm	76.4458 ppm	0.0587 ppm	0.0051 ppm	0.4292 ppm	0.0037 ppm	4.9103 ppm
Concentration RSD	10.4 %	0.2 %	2.9 %	38.9 %	0.3 %	1.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0757 ppm	0.0892 ppm	0.1152 ppm	190.2457 ppm	3.2267 ppm	0.1764 ppm
Concentration per Run 1	0.0009 ppm	0.0745 ppm	0.0888 ppm	0.1144 ppm	190.7215 ppm	3.2334 ppm	0.1756 ppm
Concentration per Run 2	0.0012 ppm	0.0772 ppm	0.0903 ppm	0.1151 ppm	190.4715 ppm	3.2537 ppm	0.1785 ppm
Concentration per Run 3	0.0010 ppm	0.0754 ppm	0.0886 ppm	0.1160 ppm	189.5441 ppm	3.1930 ppm	0.1751 ppm
Concentration RSD	12.9 %	1.9 %	1.0 %	0.7 %	0.3 %	1.0 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.4096 ppm	8.0673 ppm	0.0005 ppm	0.1767 ppm	0.1406 ppm	0.1007 ppm	0.0050 ppm
Concentration per Run 1	23.2949 ppm	8.1004 ppm	0.0002 ppm	0.1802 ppm	0.1401 ppm	0.1009 ppm	0.0051 ppm
Concentration per Run 2	23.5418 ppm	8.0495 ppm	0.0000 ppm	0.1769 ppm	0.1422 ppm	0.1016 ppm	0.0055 ppm
Concentration per Run 3	23.3921 ppm	8.0522 ppm	0.0013 ppm	0.1728 ppm	0.1395 ppm	0.0995 ppm	0.0046 ppm
Concentration RSD	0.5 %	0.4 %	134.8 %	2.1 %	1.0 %	1.0 %	8.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	11.9917 ppm	-0.0002 ppm	0.0484 ppm	0.4687 ppm	0.0026 ppm	0.0997 ppm
Concentration per Run 1	0.0043 ppm	12.3107 ppm	0.0008 ppm	0.0481 ppm	0.4618 ppm	0.0025 ppm	0.1000 ppm
Concentration per Run 2	0.0004 ppm	11.9730 ppm	-0.0006 ppm	0.0481 ppm	0.4884 ppm	0.0012 ppm	0.0995 ppm
Concentration per Run 3	-0.0059 ppm	11.6913 ppm	-0.0008 ppm	0.0489 ppm	0.4558 ppm	0.0041 ppm	0.0994 ppm
Concentration RSD	1,298.2 %	2.6 %	410.4 %	0.9 %	3.7 %	54.2 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3995 ppm	106.8894 %	108.3229 %	100.2167 %	115.7785 %	120.0397 %	118.1370 %
Concentration per Run 1	0.3986 ppm	107.8176 %	108.8098 %	100.3225 %	116.9656 %	120.6931 %	118.3617 %
Concentration per Run 2	0.4035 ppm	106.2690 %	107.5156 %	99.8440 %	114.8150 %	119.0837 %	117.6785 %
Concentration per Run 3	0.3964 ppm	106.5817 %	108.6433 %	100.4837 %	115.5549 %	120.3422 %	118.3710 %
Concentration RSD	0.9 %	0.8 %	0.6 %	0.3 %	0.9 %	0.7 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454641-02D2 WG1975353
Analysis started at: 9/24/2024 12:10:28 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	46.1660 ppm	0.0381 ppm	0.0039 ppm	0.2915 ppm	0.0024 ppm	3.6905 ppm
Concentration per Run 1	0.0006 ppm	46.1700 ppm	0.0392 ppm	0.0047 ppm	0.2910 ppm	0.0025 ppm	3.6811 ppm
Concentration per Run 2	0.0007 ppm	46.1778 ppm	0.0395 ppm	0.0031 ppm	0.2915 ppm	0.0024 ppm	3.6867 ppm
Concentration per Run 3	0.0020 ppm	46.1502 ppm	0.0356 ppm	0.0039 ppm	0.2920 ppm	0.0024 ppm	3.7038 ppm
Concentration RSD	72.7 %	0.0 %	5.6 %	20.1 %	0.2 %	2.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0033 ppm	0.0441 ppm	0.0579 ppm	0.0784 ppm	114.7533 ppm	2.8568 ppm	0.1128 ppm
Concentration per Run 1	0.0032 ppm	0.0438 ppm	0.0573 ppm	0.0783 ppm	114.1895 ppm	2.9305 ppm	0.1142 ppm
Concentration per Run 2	0.0033 ppm	0.0445 ppm	0.0584 ppm	0.0782 ppm	115.0199 ppm	2.8325 ppm	0.1121 ppm
Concentration per Run 3	0.0034 ppm	0.0441 ppm	0.0578 ppm	0.0787 ppm	115.0504 ppm	2.8074 ppm	0.1122 ppm
Concentration RSD	3.6 %	0.8 %	0.9 %	0.3 %	0.4 %	2.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.7540 ppm	6.0816 ppm	0.0011 ppm	0.1391 ppm	0.1382 ppm	0.1178 ppm	0.0023 ppm
Concentration per Run 1	16.7450 ppm	6.0598 ppm	0.0000 ppm	0.1375 ppm	0.1370 ppm	0.1195 ppm	0.0015 ppm
Concentration per Run 2	16.7685 ppm	6.0699 ppm	0.0017 ppm	0.1426 ppm	0.1397 ppm	0.1147 ppm	0.0005 ppm
Concentration per Run 3	16.7484 ppm	6.1151 ppm	0.0016 ppm	0.1371 ppm	0.1378 ppm	0.1193 ppm	0.0048 ppm
Concentration RSD	0.1 %	0.5 %	86.8 %	2.2 %	1.0 %	2.3 %	98.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	9.3979 ppm	0.0016 ppm	0.0359 ppm	0.3335 ppm	0.0018 ppm	0.0651 ppm
Concentration per Run 1	-0.0003 ppm	9.4759 ppm	0.0016 ppm	0.0359 ppm	0.3370 ppm	0.0021 ppm	0.0654 ppm
Concentration per Run 2	-0.0002 ppm	9.2908 ppm	0.0022 ppm	0.0360 ppm	0.3283 ppm	0.0003 ppm	0.0651 ppm
Concentration per Run 3	0.0022 ppm	9.4271 ppm	0.0009 ppm	0.0359 ppm	0.3351 ppm	0.0030 ppm	0.0648 ppm
Concentration RSD	247.8 %	1.0 %	41.4 %	0.1 %	1.4 %	75.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3607 ppm	105.9783 %	106.9241 %	101.3956 %	113.8300 %	117.5197 %	115.8213 %
Concentration per Run 1	0.3585 ppm	106.4267 %	107.8956 %	101.4952 %	114.1837 %	118.7509 %	115.7885 %
Concentration per Run 2	0.3621 ppm	105.7431 %	106.1567 %	102.0976 %	113.3397 %	116.7227 %	116.7189 %
Concentration per Run 3	0.3616 ppm	105.7651 %	106.7199 %	100.5940 %	113.9666 %	117.0855 %	114.9564 %
Concentration RSD	0.5 %	0.4 %	0.8 %	0.7 %	0.4 %	0.9 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454641-03D2 WG1975353
Analysis started at: 9/24/2024 12:14:22 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0010 ppm	58.5522 ppm	0.0536 ppm	0.0102 ppm	0.2378 ppm	0.0029 ppm	5.9953 ppm
Concentration per Run 1	0.0007 ppm	58.9442 ppm	0.0534 ppm	0.0088 ppm	0.2386 ppm	0.0029 ppm	6.0431 ppm
Concentration per Run 2	0.0018 ppm	58.3316 ppm	0.0536 ppm	0.0105 ppm	0.2370 ppm	0.0028 ppm	5.9846 ppm
Concentration per Run 3	0.0005 ppm	58.3807 ppm	0.0537 ppm	0.0113 ppm	0.2377 ppm	0.0028 ppm	5.9584 ppm
Concentration RSD	72.2 %	0.6 %	0.3 %	12.4 %	0.3 %	2.2 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0010 ppm	0.0544 ppm	0.0713 ppm	0.0972 ppm	131.1203 ppm	3.0068 ppm	0.1306 ppm
Concentration per Run 1	0.0008 ppm	0.0546 ppm	0.0715 ppm	0.0971 ppm	131.6261 ppm	3.0190 ppm	0.1314 ppm
Concentration per Run 2	0.0012 ppm	0.0550 ppm	0.0708 ppm	0.0969 ppm	130.9786 ppm	2.9811 ppm	0.1299 ppm
Concentration per Run 3	0.0009 ppm	0.0537 ppm	0.0715 ppm	0.0975 ppm	130.7562 ppm	3.0204 ppm	0.1305 ppm
Concentration RSD	17.5 %	1.2 %	0.6 %	0.3 %	0.3 %	0.7 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.2090 ppm	3.6565 ppm	0.0018 ppm	0.2056 ppm	0.1152 ppm	0.0977 ppm	0.0014 ppm
Concentration per Run 1	24.1908 ppm	3.6679 ppm	0.0011 ppm	0.2102 ppm	0.1161 ppm	0.0967 ppm	0.0014 ppm
Concentration per Run 2	24.3696 ppm	3.6521 ppm	0.0022 ppm	0.2003 ppm	0.1164 ppm	0.0984 ppm	-0.0009 ppm
Concentration per Run 3	24.0667 ppm	3.6494 ppm	0.0022 ppm	0.2063 ppm	0.1132 ppm	0.0981 ppm	0.0037 ppm
Concentration RSD	0.6 %	0.3 %	35.1 %	2.4 %	1.5 %	0.9 %	161.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	13.5789 ppm	0.0005 ppm	0.0491 ppm	0.4741 ppm	0.0032 ppm	0.0769 ppm
Concentration per Run 1	0.0005 ppm	13.9025 ppm	-0.0004 ppm	0.0495 ppm	0.4774 ppm	0.0013 ppm	0.0769 ppm
Concentration per Run 2	-0.0010 ppm	13.6453 ppm	-0.0001 ppm	0.0489 ppm	0.4709 ppm	0.0061 ppm	0.0764 ppm
Concentration per Run 3	0.0024 ppm	13.1890 ppm	0.0019 ppm	0.0491 ppm	0.4740 ppm	0.0022 ppm	0.0774 ppm
Concentration RSD	265.2 %	2.7 %	273.0 %	0.6 %	0.7 %	80.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3246 ppm	106.8189 %	108.2238 %	101.4889 %	114.8289 %	118.6765 %	117.2338 %
Concentration per Run 1	0.3251 ppm	106.6409 %	108.4268 %	101.9260 %	114.6568 %	119.3120 %	117.5674 %
Concentration per Run 2	0.3252 ppm	106.9490 %	108.1309 %	101.1076 %	114.5613 %	118.4555 %	117.3746 %
Concentration per Run 3	0.3235 ppm	106.8668 %	108.1137 %	101.4332 %	115.2685 %	118.2621 %	116.7595 %
Concentration RSD	0.3 %	0.1 %	0.2 %	0.4 %	0.3 %	0.5 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 12:18:17 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4973 ppm	0.4689 ppm	0.4714 ppm	0.4845 ppm	0.4850 ppm	0.4974 ppm	0.4784 ppm
Concentration per Run 1	0.4961 ppm	0.4719 ppm	0.4677 ppm	0.4827 ppm	0.4818 ppm	0.4959 ppm	0.4826 ppm
Concentration per Run 2	0.4966 ppm	0.4684 ppm	0.4775 ppm	0.4858 ppm	0.4882 ppm	0.4964 ppm	0.4759 ppm
Concentration per Run 3	0.4992 ppm	0.4664 ppm	0.4691 ppm	0.4852 ppm	0.4850 ppm	0.4999 ppm	0.4767 ppm
Recovery Percentage 1	99.459 %	93.782 %	94.285 %	96.909 %	96.998 %	99.478 %	95.682 %
Concentration RSD	0.3 %	0.6 %	1.1 %	0.3 %	0.7 %	0.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4873 ppm	0.4954 ppm	0.4776 ppm	0.4783 ppm	0.4990 ppm	5.0085 ppm	0.4803 ppm
Concentration per Run 1	0.4900 ppm	0.4915 ppm	0.4768 ppm	0.4753 ppm	0.4981 ppm	5.0359 ppm	0.4794 ppm
Concentration per Run 2	0.4847 ppm	0.4967 ppm	0.4792 ppm	0.4798 ppm	0.4985 ppm	4.9830 ppm	0.4810 ppm
Concentration per Run 3	0.4871 ppm	0.4981 ppm	0.4769 ppm	0.4798 ppm	0.5004 ppm	5.0066 ppm	0.4804 ppm
Recovery Percentage 1	97.455 %	99.083 %	95.527 %	95.658 %	99.798 %	100.170 %	96.052 %
Concentration RSD	0.5 %	0.7 %	0.3 %	0.6 %	0.2 %	0.5 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4812 ppm	0.4773 ppm	0.4798 ppm	9.7219 ppm	0.4953 ppm	0.4874 ppm	0.4924 ppm
Concentration per Run 1	0.4831 ppm	0.4788 ppm	0.4773 ppm	9.7264 ppm	0.4918 ppm	0.4873 ppm	0.4893 ppm
Concentration per Run 2	0.4794 ppm	0.4749 ppm	0.4804 ppm	9.7532 ppm	0.4975 ppm	0.4909 ppm	0.4989 ppm
Concentration per Run 3	0.4812 ppm	0.4782 ppm	0.4815 ppm	9.6862 ppm	0.4965 ppm	0.4840 ppm	0.4891 ppm
Recovery Percentage 1	96.245 %	95.461 %	95.951 %	97.219 %	99.057 %	97.487 %	98.489 %
Concentration RSD	0.4 %	0.4 %	0.5 %	0.3 %	0.6 %	0.7 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4838 ppm	5.1905 ppm	0.4680 ppm	0.4656 ppm	0.4866 ppm	0.4883 ppm	0.4722 ppm
Concentration per Run 1	0.4828 ppm	5.1685 ppm	0.4669 ppm	0.4632 ppm	0.4858 ppm	0.4899 ppm	0.4706 ppm
Concentration per Run 2	0.4852 ppm	5.1895 ppm	0.4715 ppm	0.4677 ppm	0.4860 ppm	0.4905 ppm	0.4717 ppm
Concentration per Run 3	0.4832 ppm	5.2136 ppm	0.4655 ppm	0.4659 ppm	0.4879 ppm	0.4844 ppm	0.4742 ppm
Recovery Percentage 1	96.750 %	98.867 %	93.594 %	93.120 %	97.314 %	97.652 %	94.432 %
Concentration RSD	0.3 %	0.4 %	0.7 %	0.5 %	0.2 %	0.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4931 ppm	105.8382 %	104.1099 %	104.1141 %	103.2835 %	102.7898 %	103.9247 %
Concentration per Run 1	0.4911 ppm	105.5148 %	104.4269 %	104.8830 %	102.8059 %	103.4523 %	104.6831 %
Concentration per Run 2	0.4957 ppm	105.2338 %	104.0087 %	104.0409 %	102.8476 %	102.8226 %	104.0757 %
Concentration per Run 3	0.4925 ppm	106.7661 %	103.8939 %	103.4185 %	104.1968 %	102.0945 %	103.0154 %
Recovery Percentage 1	98.623 %						
Concentration RSD	0.5 %	0.8 %	0.3 %	0.7 %	0.8 %	0.7 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 12:22:12 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0013 ppm	0.0014 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	0.0004 ppm	0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 2	0.0001 ppm	-0.0024 ppm	0.0022 ppm	0.0020 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 3	0.0005 ppm	0.0056 ppm	0.0019 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	-0.0040 ppm
Recovery Percentage 1	4.697 %	1.277 %	27.412 %	2.935 %	-0.943 %	0.434 %	-1.316 %
Concentration RSD	73.2 %	314.3 %	90.1 %	117.3 %	46.1 %	197.7 %	196.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	0.0005 ppm	-0.0002 ppm	0.0032 ppm	-0.0022 ppm	0.0018 ppm
Concentration per Run 1	0.0000 ppm	-0.0007 ppm	0.0009 ppm	0.0000 ppm	0.0018 ppm	0.0197 ppm	0.0009 ppm
Concentration per Run 2	-0.0003 ppm	-0.0003 ppm	0.0004 ppm	-0.0006 ppm	0.0053 ppm	-0.0297 ppm	0.0032 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0024 ppm	0.0034 ppm	0.0012 ppm
Recovery Percentage 1	-1.511 %	-1.891 %	4.888 %	-1.702 %	6.361 %	-0.088 %	35.231 %
Concentration RSD	225.5 %	85.2 %	73.8 %	207.4 %	59.4 %	1,144.3 %	70.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0011 ppm	-0.0001 ppm	0.0007 ppm	0.0002 ppm	0.0002 ppm	-0.0004 ppm	-0.0011 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm	-0.0002 ppm
Concentration per Run 2	-0.0015 ppm	-0.0002 ppm	0.0003 ppm	0.0082 ppm	0.0012 ppm	-0.0006 ppm	-0.0022 ppm
Concentration per Run 3	-0.0016 ppm	0.0001 ppm	0.0008 ppm	-0.0078 ppm	-0.0005 ppm	-0.0012 ppm	-0.0009 ppm
Recovery Percentage 1	-1.092 %	-0.512 %	1.417 %	0.010 %	0.858 %	-3.811 %	-2.156 %
Concentration RSD	68.1 %	261.2 %	47.1 %	3,910.1 %	400.0 %	260.1 %	91.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0024 ppm	-0.0010 ppm	-0.0019 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 1	-0.0019 ppm	-0.0019 ppm	-0.0017 ppm	0.0002 ppm	0.0004 ppm	0.0017 ppm	-0.0001 ppm
Concentration per Run 2	-0.0044 ppm	-0.0008 ppm	-0.0015 ppm	0.0002 ppm	0.0007 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 3	-0.0008 ppm	-0.0003 ppm	-0.0024 ppm	0.0001 ppm	0.0002 ppm	-0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	-23.797 %	-0.203 %	-3.724 %	1.492 %	4.112 %	1.573 %	-2.663 %
Concentration RSD	78.4 %	77.2 %	25.1 %	28.1 %	54.5 %	393.8 %	69.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	104.7388 %	102.8402 %	103.7944 %	104.2031 %	102.8053 %	104.5872 %
Concentration per Run 1	-0.0017 ppm	104.8114 %	103.0102 %	103.7520 %	104.5674 %	103.3064 %	104.9433 %
Concentration per Run 2	-0.0014 ppm	104.3419 %	102.2546 %	103.4708 %	103.8545 %	102.2469 %	103.9555 %
Concentration per Run 3	-0.0016 ppm	105.0632 %	103.2557 %	104.1603 %	104.1874 %	102.8625 %	104.8627 %
Recovery Percentage 1	-31.394 %						
Concentration RSD	11.0 %	0.3 %	0.5 %	0.3 %	0.3 %	0.5 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-1 WG1975268
Analysis started at: 9/24/2024 12:29:12 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0030 ppm	0.0027 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 1	0.0001 ppm	-0.0127 ppm	0.0041 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 2	0.0000 ppm	0.0129 ppm	0.0018 ppm	0.0021 ppm	-0.0002 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 3	0.0002 ppm	0.0089 ppm	0.0024 ppm	0.0020 ppm	-0.0001 ppm	0.0000 ppm	0.0107 ppm
Recovery Percentage 1	1.716 %	3.043 %	54.743 %	5.622 %	-1.099 %	-0.080 %	9.754 %
Concentration RSD	101.1 %	452.3 %	43.2 %	36.8 %	107.9 %	1,153.5 %	29.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0005 ppm	-0.0007 ppm	-0.0001 ppm	-0.0001 ppm	-0.0149 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	-0.0011 ppm	0.0002 ppm	-0.0004 ppm	-0.0194 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0012 ppm	-0.0007 ppm	-0.0002 ppm	0.0013 ppm	-0.0088 ppm	0.0021 ppm
Concentration per Run 3	-0.0001 ppm	-0.0008 ppm	-0.0003 ppm	-0.0002 ppm	-0.0012 ppm	-0.0166 ppm	0.0030 ppm
Recovery Percentage 1	-0.324 %	-2.425 %	-7.282 %	-0.563 %	-0.191 %	-0.598 %	32.775 %
Concentration RSD	830.1 %	201.0 %	55.7 %	332.1 %	1,306.6 %	36.7 %	103.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0021 ppm	0.0000 ppm	-0.0002 ppm	0.0026 ppm	0.0001 ppm	0.0008 ppm	0.0009 ppm
Concentration per Run 1	0.0063 ppm	0.0003 ppm	-0.0001 ppm	0.0132 ppm	-0.0001 ppm	0.0013 ppm	-0.0007 ppm
Concentration per Run 2	-0.0019 ppm	-0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0000 ppm	0.0003 ppm	0.0011 ppm
Concentration per Run 3	0.0018 ppm	-0.0003 ppm	-0.0005 ppm	-0.0065 ppm	0.0003 ppm	0.0009 ppm	0.0025 ppm
Recovery Percentage 1	2.090 %	-0.464 %	-0.498 %	0.131 %	0.303 %	8.252 %	1.899 %
Concentration RSD	196.8 %	648.7 %	103.9 %	379.0 %	224.5 %	62.1 %	169.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.0004 ppm	-0.0025 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	0.0009 ppm	-0.0008 ppm	-0.0027 ppm	0.0001 ppm	0.0005 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 2	-0.0008 ppm	0.0021 ppm	-0.0037 ppm	0.0002 ppm	0.0001 ppm	0.0019 ppm	-0.0003 ppm
Concentration per Run 3	-0.0025 ppm	-0.0001 ppm	-0.0012 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-7.868 %	0.079 %	-5.071 %	1.821 %	3.409 %	2.136 %	-2.173 %
Concentration RSD	221.3 %	387.1 %	49.2 %	45.0 %	52.9 %	295.7 %	72.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0010 ppm	101.2200 %	101.0394 %	102.0557 %	100.8024 %	101.1736 %	101.9109 %
Concentration per Run 1	-0.0011 ppm	100.8903 %	101.1681 %	101.7701 %	100.8364 %	101.2818 %	101.6707 %
Concentration per Run 2	-0.0012 ppm	101.7917 %	100.1504 %	101.9505 %	101.2983 %	100.5745 %	102.0111 %
Concentration per Run 3	-0.0008 ppm	100.9780 %	101.7998 %	102.4464 %	100.2723 %	101.6645 %	102.0511 %
Recovery Percentage 1	-20.245 %						
Concentration RSD	22.0 %	0.5 %	0.8 %	0.3 %	0.5 %	0.5 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-2 WG1975268
Analysis started at: 9/24/2024 12:33:24 PM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0498 ppm	1.8867 ppm	0.1124 ppm	0.9237 ppm	1.8967 ppm	0.0484 ppm	9.5441 ppm
Concentration per Run 1	0.0499 ppm	1.8813 ppm	0.1120 ppm	0.9246 ppm	1.8988 ppm	0.0484 ppm	9.4882 ppm
Concentration per Run 2	0.0496 ppm	1.8955 ppm	0.1126 ppm	0.9218 ppm	1.9071 ppm	0.0486 ppm	9.5683 ppm
Concentration per Run 3	0.0498 ppm	1.8832 ppm	0.1126 ppm	0.9248 ppm	1.8841 ppm	0.0483 ppm	9.5758 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %	0.2 %	0.6 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0504 ppm	0.4785 ppm	0.1860 ppm	0.2379 ppm	0.9768 ppm	9.7721 ppm	0.0003 ppm
Concentration per Run 1	0.0506 ppm	0.4784 ppm	0.1878 ppm	0.2384 ppm	0.9785 ppm	9.7775 ppm	0.0008 ppm
Concentration per Run 2	0.0502 ppm	0.4784 ppm	0.1864 ppm	0.2368 ppm	0.9804 ppm	9.8406 ppm	0.0006 ppm
Concentration per Run 3	0.0503 ppm	0.4786 ppm	0.1839 ppm	0.2386 ppm	0.9716 ppm	9.6981 ppm	-0.0006 ppm
Concentration RSD	0.4 %	0.0 %	1.1 %	0.4 %	0.5 %	0.7 %	291.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.5112 ppm	0.4806 ppm	0.9052 ppm	9.6245 ppm	0.4807 ppm	0.5102 ppm	0.4145 ppm
Concentration per Run 1	9.5009 ppm	0.4775 ppm	0.8930 ppm	9.6147 ppm	0.4822 ppm	0.5111 ppm	0.4058 ppm
Concentration per Run 2	9.5235 ppm	0.4809 ppm	0.8993 ppm	9.6116 ppm	0.4808 ppm	0.5084 ppm	0.4094 ppm
Concentration per Run 3	9.5091 ppm	0.4834 ppm	0.9231 ppm	9.6472 ppm	0.4791 ppm	0.5112 ppm	0.4284 ppm
Concentration RSD	0.1 %	0.6 %	1.8 %	0.2 %	0.3 %	0.3 %	2.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1154 ppm	0.6186 ppm	0.9035 ppm	0.9133 ppm	0.9529 ppm	0.1158 ppm	0.4745 ppm
Concentration per Run 1	0.1127 ppm	0.6197 ppm	0.9005 ppm	0.9122 ppm	0.9531 ppm	0.1156 ppm	0.4750 ppm
Concentration per Run 2	0.1153 ppm	0.6118 ppm	0.9010 ppm	0.9152 ppm	0.9564 ppm	0.1158 ppm	0.4739 ppm
Concentration per Run 3	0.1182 ppm	0.6242 ppm	0.9091 ppm	0.9125 ppm	0.9493 ppm	0.1160 ppm	0.4748 ppm
Concentration RSD	2.4 %	1.0 %	0.5 %	0.2 %	0.4 %	0.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4808 ppm	105.3210 %	104.2123 %	103.3196 %	102.9062 %	103.1720 %	103.6577 %
Concentration per Run 1	0.4823 ppm	105.0803 %	104.8579 %	103.5458 %	102.8729 %	103.7119 %	104.0016 %
Concentration per Run 2	0.4808 ppm	105.3283 %	104.2296 %	102.9914 %	102.8730 %	103.3085 %	103.3767 %
Concentration per Run 3	0.4791 ppm	105.5542 %	103.5494 %	103.4215 %	102.9725 %	102.4955 %	103.5948 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.3 %	0.1 %	0.6 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453252-07 WG1974865
Analysis started at: 9/24/2024 12:37:18 PM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0034 ppm	0.0009 ppm	0.0097 ppm	0.0035 ppm	0.0000 ppm	30.9607 ppm
Concentration per Run 1	0.0008 ppm	-0.0082 ppm	0.0004 ppm	0.0080 ppm	0.0036 ppm	-0.0001 ppm	30.9697 ppm
Concentration per Run 2	0.0004 ppm	0.0085 ppm	-0.0002 ppm	0.0108 ppm	0.0034 ppm	0.0000 ppm	30.8463 ppm
Concentration per Run 3	-0.0005 ppm	0.0100 ppm	0.0024 ppm	0.0102 ppm	0.0036 ppm	0.0000 ppm	31.0659 ppm
Concentration RSD	266.3 %	295.5 %	153.8 %	15.1 %	4.1 %	727.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0002 ppm	-0.0004 ppm	0.0361 ppm	0.0058 ppm	0.4360 ppm	0.0188 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	-0.0003 ppm	0.0363 ppm	0.0062 ppm	0.4695 ppm	0.0191 ppm
Concentration per Run 2	-0.0003 ppm	-0.0004 ppm	-0.0005 ppm	0.0360 ppm	0.0029 ppm	0.3949 ppm	0.0186 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	-0.0006 ppm	0.0359 ppm	0.0082 ppm	0.4436 ppm	0.0189 ppm
Concentration RSD	42.8 %	91.1 %	35.6 %	0.5 %	45.9 %	8.7 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.4573 ppm	0.0000 ppm	0.0041 ppm	4.2622 ppm	0.0002 ppm	-0.0003 ppm	0.0026 ppm
Concentration per Run 1	4.4950 ppm	0.0001 ppm	0.0043 ppm	4.2681 ppm	0.0009 ppm	-0.0023 ppm	0.0037 ppm
Concentration per Run 2	4.4464 ppm	0.0001 ppm	0.0044 ppm	4.2601 ppm	-0.0001 ppm	0.0007 ppm	0.0005 ppm
Concentration per Run 3	4.4304 ppm	-0.0002 ppm	0.0035 ppm	4.2584 ppm	-0.0004 ppm	0.0005 ppm	0.0036 ppm
Concentration RSD	0.8 %	6,048.8 %	12.2 %	0.1 %	443.9 %	496.5 %	70.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	5.2057 ppm	0.0029 ppm	0.1507 ppm	0.0005 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 1	-0.0031 ppm	5.2448 ppm	0.0038 ppm	0.1505 ppm	0.0008 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0026 ppm	5.1935 ppm	0.0034 ppm	0.1509 ppm	0.0004 ppm	-0.0018 ppm	-0.0005 ppm
Concentration per Run 3	0.0013 ppm	5.1789 ppm	0.0015 ppm	0.1507 ppm	0.0003 ppm	0.0012 ppm	-0.0003 ppm
Concentration RSD	167.3 %	0.7 %	41.8 %	0.1 %	50.7 %	410.3 %	133.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0059 ppm	104.0450 %	103.6461 %	102.4201 %	102.7411 %	103.3258 %	103.3466 %
Concentration per Run 1	0.0060 ppm	103.3482 %	104.2277 %	102.0418 %	102.2613 %	103.9720 %	103.3581 %
Concentration per Run 2	0.0058 ppm	104.6881 %	103.6466 %	102.9432 %	103.3222 %	103.5114 %	103.5816 %
Concentration per Run 3	0.0059 ppm	104.0987 %	103.0641 %	102.2752 %	102.6398 %	102.4940 %	103.1000 %
Concentration RSD	1.6 %	0.6 %	0.6 %	0.5 %	0.5 %	0.7 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453252-08 WG1974865
Analysis started at: 9/24/2024 12:41:12 PM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0008 ppm	0.0005 ppm	0.0071 ppm	0.0046 ppm	0.0000 ppm	35.0416 ppm
Concentration per Run 1	0.0001 ppm	-0.0060 ppm	0.0012 ppm	0.0072 ppm	0.0045 ppm	-0.0001 ppm	34.8358 ppm
Concentration per Run 2	0.0003 ppm	-0.0004 ppm	0.0003 ppm	0.0097 ppm	0.0047 ppm	0.0000 ppm	35.0857 ppm
Concentration per Run 3	0.0004 ppm	0.0040 ppm	-0.0001 ppm	0.0043 ppm	0.0045 ppm	0.0000 ppm	35.2033 ppm
Concentration RSD	69.1 %	635.1 %	139.6 %	38.4 %	3.0 %	110.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	-0.0007 ppm	0.0073 ppm	0.0031 ppm	0.4399 ppm	0.0159 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0069 ppm	0.0013 ppm	0.4626 ppm	0.0171 ppm
Concentration per Run 2	-0.0003 ppm	-0.0006 ppm	-0.0005 ppm	0.0076 ppm	0.0039 ppm	0.4201 ppm	0.0164 ppm
Concentration per Run 3	-0.0002 ppm	0.0006 ppm	-0.0013 ppm	0.0073 ppm	0.0041 ppm	0.4369 ppm	0.0142 ppm
Concentration RSD	58.8 %	531.6 %	63.3 %	4.7 %	51.0 %	4.9 %	9.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.3281 ppm	0.0004 ppm	0.0018 ppm	3.6642 ppm	0.0001 ppm	0.0002 ppm	0.0039 ppm
Concentration per Run 1	4.3298 ppm	0.0004 ppm	0.0019 ppm	3.6546 ppm	0.0006 ppm	0.0015 ppm	0.0053 ppm
Concentration per Run 2	4.3253 ppm	0.0004 ppm	0.0016 ppm	3.6590 ppm	0.0002 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 3	4.3294 ppm	0.0004 ppm	0.0020 ppm	3.6790 ppm	-0.0003 ppm	-0.0011 ppm	0.0050 ppm
Concentration RSD	0.1 %	5.1 %	9.7 %	0.4 %	329.2 %	834.5 %	56.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	5.2933 ppm	-0.0015 ppm	0.1644 ppm	0.0004 ppm	0.0017 ppm	0.0002 ppm
Concentration per Run 1	0.0014 ppm	5.2918 ppm	-0.0015 ppm	0.1646 ppm	0.0002 ppm	0.0017 ppm	0.0002 ppm
Concentration per Run 2	-0.0032 ppm	5.2857 ppm	-0.0012 ppm	0.1643 ppm	0.0005 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 3	0.0036 ppm	5.3025 ppm	-0.0018 ppm	0.1643 ppm	0.0005 ppm	0.0025 ppm	0.0002 ppm
Concentration RSD	582.2 %	0.2 %	20.6 %	0.1 %	40.6 %	51.1 %	4.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0043 ppm	104.0028 %	102.5450 %	102.6369 %	102.5992 %	102.1299 %	103.6751 %
Concentration per Run 1	0.0042 ppm	103.9698 %	103.7005 %	102.7991 %	102.7520 %	103.0214 %	103.8414 %
Concentration per Run 2	0.0046 ppm	103.2212 %	101.5556 %	102.3500 %	101.8429 %	101.0813 %	103.0975 %
Concentration per Run 3	0.0042 ppm	104.8174 %	102.3789 %	102.7616 %	103.2028 %	102.2871 %	104.0864 %
Concentration RSD	4.9 %	0.8 %	1.1 %	0.2 %	0.7 %	1.0 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-06 WG1975268
Analysis started at: 9/24/2024 12:45:07 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0113 ppm	0.0016 ppm	0.0038 ppm	0.0203 ppm	0.0000 ppm	3.8518 ppm
Concentration per Run 1	0.0007 ppm	0.0063 ppm	0.0014 ppm	0.0035 ppm	0.0201 ppm	-0.0001 ppm	3.8390 ppm
Concentration per Run 2	0.0002 ppm	0.0149 ppm	0.0031 ppm	0.0042 ppm	0.0206 ppm	0.0000 ppm	3.8696 ppm
Concentration per Run 3	0.0009 ppm	0.0126 ppm	0.0003 ppm	0.0037 ppm	0.0202 ppm	0.0000 ppm	3.8468 ppm
Concentration RSD	58.3 %	39.5 %	86.4 %	9.6 %	1.3 %	139.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0032 ppm	0.0176 ppm	0.9048 ppm	0.0010 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	-0.0007 ppm	0.0033 ppm	0.0201 ppm	0.9047 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0030 ppm	0.0165 ppm	0.9076 ppm	0.0016 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	-0.0007 ppm	0.0032 ppm	0.0163 ppm	0.9022 ppm	0.0009 ppm
Concentration RSD	250.7 %	149.2 %	49.3 %	5.2 %	12.2 %	0.3 %	47.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.4273 ppm	0.0020 ppm	0.0002 ppm	1.5399 ppm	0.0004 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 1	1.4320 ppm	0.0019 ppm	0.0002 ppm	1.5339 ppm	0.0010 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 2	1.4338 ppm	0.0018 ppm	0.0002 ppm	1.5378 ppm	-0.0001 ppm	0.0012 ppm	0.0020 ppm
Concentration per Run 3	1.4162 ppm	0.0022 ppm	0.0003 ppm	1.5480 ppm	0.0003 ppm	0.0015 ppm	-0.0050 ppm
Concentration RSD	0.7 %	9.7 %	31.8 %	0.5 %	143.7 %	87.2 %	15,457.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	3.1181 ppm	-0.0019 ppm	0.0164 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0057 ppm	3.1352 ppm	-0.0028 ppm	0.0163 ppm	0.0008 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 2	-0.0033 ppm	3.1336 ppm	-0.0012 ppm	0.0165 ppm	0.0008 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	3.0856 ppm	-0.0017 ppm	0.0163 ppm	0.0006 ppm	0.0007 ppm	0.0000 ppm
Concentration RSD	620.3 %	0.9 %	43.1 %	0.9 %	16.2 %	1,015.7 %	2,018.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0017 ppm	104.9493 %	103.1109 %	104.9282 %	103.8279 %	102.7184 %	105.0406 %
Concentration per Run 1	0.0019 ppm	104.5915 %	103.5023 %	105.1736 %	104.0238 %	102.8942 %	105.5017 %
Concentration per Run 2	0.0016 ppm	104.9640 %	101.5479 %	104.1979 %	103.5527 %	101.1439 %	104.2812 %
Concentration per Run 3	0.0017 ppm	105.2925 %	104.2824 %	105.4132 %	103.9070 %	104.1171 %	105.3390 %
Concentration RSD	8.4 %	0.3 %	1.4 %	0.6 %	0.2 %	1.5 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2454641-04D2 WG1975353
Analysis started at: 9/24/2024 12:49:02 PM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	68.0363 ppm	0.0536 ppm	0.0035 ppm	0.2433 ppm	0.0032 ppm	5.7351 ppm
Concentration per Run 1	0.0010 ppm	68.3376 ppm	0.0515 ppm	0.0049 ppm	0.2437 ppm	0.0032 ppm	5.7589 ppm
Concentration per Run 2	-0.0002 ppm	67.9920 ppm	0.0538 ppm	0.0032 ppm	0.2443 ppm	0.0032 ppm	5.7227 ppm
Concentration per Run 3	0.0000 ppm	67.7794 ppm	0.0554 ppm	0.0023 ppm	0.2420 ppm	0.0032 ppm	5.7237 ppm
Concentration RSD	213.0 %	0.4 %	3.6 %	38.6 %	0.5 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0598 ppm	0.0837 ppm	0.1046 ppm	152.0722 ppm	2.8009 ppm	0.1524 ppm
Concentration per Run 1	0.0008 ppm	0.0598 ppm	0.0836 ppm	0.1042 ppm	152.7265 ppm	2.8365 ppm	0.1522 ppm
Concentration per Run 2	0.0010 ppm	0.0600 ppm	0.0836 ppm	0.1046 ppm	151.9899 ppm	2.7857 ppm	0.1539 ppm
Concentration per Run 3	0.0009 ppm	0.0596 ppm	0.0840 ppm	0.1051 ppm	151.5001 ppm	2.7804 ppm	0.1512 ppm
Concentration RSD	7.8 %	0.4 %	0.3 %	0.4 %	0.4 %	1.1 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	23.8251 ppm	3.4427 ppm	0.0007 ppm	0.1661 ppm	0.1329 ppm	0.0989 ppm	0.0002 ppm
Concentration per Run 1	23.7587 ppm	3.4645 ppm	0.0002 ppm	0.1612 ppm	0.1315 ppm	0.0991 ppm	0.0034 ppm
Concentration per Run 2	23.8717 ppm	3.4296 ppm	0.0008 ppm	0.1608 ppm	0.1338 ppm	0.0986 ppm	0.0046 ppm
Concentration per Run 3	23.8448 ppm	3.4340 ppm	0.0011 ppm	0.1762 ppm	0.1335 ppm	0.0991 ppm	-0.0074 ppm
Concentration RSD	0.2 %	0.6 %	71.9 %	5.3 %	0.9 %	0.3 %	3,176.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	7.2443 ppm	0.0025 ppm	0.0434 ppm	0.3820 ppm	0.0016 ppm	0.0895 ppm
Concentration per Run 1	-0.0019 ppm	7.2634 ppm	0.0011 ppm	0.0439 ppm	0.3660 ppm	0.0006 ppm	0.0895 ppm
Concentration per Run 2	-0.0008 ppm	7.2574 ppm	0.0031 ppm	0.0434 ppm	0.3929 ppm	0.0020 ppm	0.0899 ppm
Concentration per Run 3	0.0001 ppm	7.2120 ppm	0.0032 ppm	0.0428 ppm	0.3870 ppm	0.0023 ppm	0.0890 ppm
Concentration RSD	121.6 %	0.4 %	47.7 %	1.2 %	3.7 %	56.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3587 ppm	106.6563 %	107.4203 %	101.0496 %	115.0759 %	118.7311 %	117.5581 %
Concentration per Run 1	0.3559 ppm	106.4295 %	107.0729 %	100.2047 %	114.6864 %	118.3009 %	116.7676 %
Concentration per Run 2	0.3607 ppm	107.1923 %	107.7073 %	101.8398 %	115.7477 %	119.3305 %	118.1787 %
Concentration per Run 3	0.3595 ppm	106.3471 %	107.4808 %	101.1043 %	114.7937 %	118.5620 %	117.7281 %
Concentration RSD	0.7 %	0.4 %	0.3 %	0.8 %	0.5 %	0.5 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-3D2 WG1975353
Analysis started at: 9/24/2024 12:52:56 PM
Rack 1
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0521 ppm	62.6905 ppm	0.1692 ppm	0.9365 ppm	2.1866 ppm	0.0527 ppm	15.4664 ppm
Concentration per Run 1	0.0514 ppm	63.1768 ppm	0.1695 ppm	0.9359 ppm	2.2007 ppm	0.0531 ppm	15.5587 ppm
Concentration per Run 2	0.0525 ppm	62.3273 ppm	0.1696 ppm	0.9369 ppm	2.1753 ppm	0.0525 ppm	15.3996 ppm
Concentration per Run 3	0.0525 ppm	62.5674 ppm	0.1685 ppm	0.9369 ppm	2.1838 ppm	0.0526 ppm	15.4409 ppm
Concentration RSD	1.2 %	0.7 %	0.4 %	0.1 %	0.6 %	0.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0531 ppm	0.5538 ppm	0.2696 ppm	0.3477 ppm	129.9620 ppm	12.2415 ppm	0.1391 ppm
Concentration per Run 1	0.0529 ppm	0.5555 ppm	0.2696 ppm	0.3492 ppm	130.9059 ppm	12.2592 ppm	0.1396 ppm
Concentration per Run 2	0.0537 ppm	0.5534 ppm	0.2687 ppm	0.3465 ppm	129.5501 ppm	12.2179 ppm	0.1384 ppm
Concentration per Run 3	0.0526 ppm	0.5526 ppm	0.2706 ppm	0.3474 ppm	129.4299 ppm	12.2475 ppm	0.1394 ppm
Concentration RSD	1.1 %	0.3 %	0.3 %	0.4 %	0.6 %	0.2 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.4594 ppm	3.7548 ppm	1.0042 ppm	10.0733 ppm	0.6140 ppm	0.6345 ppm	0.4760 ppm
Concentration per Run 1	30.4515 ppm	3.7741 ppm	1.0028 ppm	10.1194 ppm	0.6144 ppm	0.6329 ppm	0.4688 ppm
Concentration per Run 2	30.4584 ppm	3.7350 ppm	1.0008 ppm	10.0468 ppm	0.6119 ppm	0.6393 ppm	0.4739 ppm
Concentration per Run 3	30.4683 ppm	3.7553 ppm	1.0091 ppm	10.0538 ppm	0.6157 ppm	0.6312 ppm	0.4853 ppm
Concentration RSD	0.0 %	0.5 %	0.4 %	0.4 %	0.3 %	0.7 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1186 ppm	9.9089 ppm	0.9693 ppm	0.9847 ppm	1.2532 ppm	0.1229 ppm	0.5789 ppm
Concentration per Run 1	0.1216 ppm	10.1849 ppm	0.9731 ppm	0.9917 ppm	1.2800 ppm	0.1227 ppm	0.5807 ppm
Concentration per Run 2	0.1159 ppm	9.8481 ppm	0.9641 ppm	0.9810 ppm	1.2558 ppm	0.1237 ppm	0.5768 ppm
Concentration per Run 3	0.1183 ppm	9.6936 ppm	0.9707 ppm	0.9815 ppm	1.2239 ppm	0.1223 ppm	0.5793 ppm
Concentration RSD	2.4 %	2.5 %	0.5 %	0.6 %	2.2 %	0.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8414 ppm	106.4441 %	109.2505 %	100.4827 %	114.6222 %	119.7343 %	116.1046 %
Concentration per Run 1	0.8411 ppm	106.6057 %	109.4733 %	100.6145 %	115.1897 %	120.3102 %	116.1061 %
Concentration per Run 2	0.8404 ppm	106.8900 %	108.5487 %	100.4085 %	114.9167 %	118.8361 %	116.2213 %
Concentration per Run 3	0.8428 ppm	105.8365 %	109.7296 %	100.4250 %	113.7600 %	120.0566 %	115.9862 %
Concentration RSD	0.2 %	0.5 %	0.6 %	0.1 %	0.7 %	0.7 %	0.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-4D2 WG1975353
Analysis started at: 9/24/2024 12:56:51 PM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0527 ppm	69.5953 ppm	0.1952 ppm	0.9339 ppm	2.2054 ppm	0.0534 ppm	15.8647 ppm
Concentration per Run 1	0.0527 ppm	69.3641 ppm	0.1987 ppm	0.9328 ppm	2.1900 ppm	0.0532 ppm	15.8215 ppm
Concentration per Run 2	0.0528 ppm	69.7862 ppm	0.1928 ppm	0.9350 ppm	2.2192 ppm	0.0536 ppm	15.8895 ppm
Concentration per Run 3	0.0527 ppm	69.6354 ppm	0.1942 ppm	0.9341 ppm	2.2071 ppm	0.0533 ppm	15.8830 ppm
Concentration RSD	0.1 %	0.3 %	1.6 %	0.1 %	0.7 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0548 ppm	0.5679 ppm	0.2837 ppm	0.3609 ppm	145.9524 ppm	12.3052 ppm	0.1503 ppm
Concentration per Run 1	0.0546 ppm	0.5695 ppm	0.2836 ppm	0.3618 ppm	145.2337 ppm	12.2653 ppm	0.1503 ppm
Concentration per Run 2	0.0552 ppm	0.5684 ppm	0.2841 ppm	0.3605 ppm	147.1363 ppm	12.3095 ppm	0.1501 ppm
Concentration per Run 3	0.0546 ppm	0.5658 ppm	0.2833 ppm	0.3604 ppm	145.4872 ppm	12.3408 ppm	0.1504 ppm
Concentration RSD	0.6 %	0.3 %	0.2 %	0.2 %	0.7 %	0.3 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.6960 ppm	4.0186 ppm	1.0088 ppm	10.1274 ppm	0.6306 ppm	0.6314 ppm	0.4821 ppm
Concentration per Run 1	34.8160 ppm	4.0142 ppm	1.0020 ppm	9.9664 ppm	0.6295 ppm	0.6349 ppm	0.4846 ppm
Concentration per Run 2	34.5765 ppm	4.0289 ppm	1.0063 ppm	10.2161 ppm	0.6298 ppm	0.6298 ppm	0.4788 ppm
Concentration per Run 3	34.6956 ppm	4.0126 ppm	1.0180 ppm	10.1996 ppm	0.6324 ppm	0.6295 ppm	0.4829 ppm
Concentration RSD	0.3 %	0.2 %	0.8 %	1.4 %	0.2 %	0.5 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1150 ppm	11.1245 ppm	0.9729 ppm	0.9863 ppm	1.2429 ppm	0.1237 ppm	0.5932 ppm
Concentration per Run 1	0.1205 ppm	11.3498 ppm	0.9738 ppm	0.9781 ppm	1.2480 ppm	0.1235 ppm	0.5929 ppm
Concentration per Run 2	0.1120 ppm	10.9714 ppm	0.9694 ppm	0.9940 ppm	1.2631 ppm	0.1231 ppm	0.5924 ppm
Concentration per Run 3	0.1125 ppm	11.0522 ppm	0.9756 ppm	0.9869 ppm	1.2174 ppm	0.1246 ppm	0.5943 ppm
Concentration RSD	4.2 %	1.8 %	0.3 %	0.8 %	1.9 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8675 ppm	106.8345 %	109.0310 %	100.0501 %	115.8849 %	120.3860 %	116.8940 %
Concentration per Run 1	0.8673 ppm	106.5004 %	110.2472 %	99.4864 %	115.5595 %	121.1485 %	116.3915 %
Concentration per Run 2	0.8649 ppm	107.3364 %	108.5853 %	100.9165 %	116.1781 %	120.3193 %	117.9881 %
Concentration per Run 3	0.8704 ppm	106.6667 %	108.2604 %	99.7473 %	115.9171 %	119.6901 %	116.3024 %
Concentration RSD	0.3 %	0.4 %	1.0 %	0.8 %	0.3 %	0.6 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-5D2 WG1975353
Analysis started at: 9/24/2024 1:00:45 PM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0489 ppm	65.6696 ppm	0.1671 ppm	0.9680 ppm	2.1611 ppm	0.0525 ppm	15.4617 ppm
Concentration per Run 1	0.0488 ppm	65.5802 ppm	0.1696 ppm	0.9699 ppm	2.1505 ppm	0.0522 ppm	15.4431 ppm
Concentration per Run 2	0.0485 ppm	65.5523 ppm	0.1662 ppm	0.9691 ppm	2.1567 ppm	0.0525 ppm	15.4409 ppm
Concentration per Run 3	0.0493 ppm	65.8764 ppm	0.1655 ppm	0.9651 ppm	2.1761 ppm	0.0529 ppm	15.5011 ppm
Concentration RSD	0.8 %	0.3 %	1.3 %	0.3 %	0.6 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0537 ppm	0.5413 ppm	0.2677 ppm	0.3439 ppm	143.1947 ppm	12.9728 ppm	0.1421 ppm
Concentration per Run 1	0.0539 ppm	0.5410 ppm	0.2670 ppm	0.3439 ppm	142.5889 ppm	12.9115 ppm	0.1424 ppm
Concentration per Run 2	0.0532 ppm	0.5395 ppm	0.2683 ppm	0.3430 ppm	142.7235 ppm	13.0096 ppm	0.1394 ppm
Concentration per Run 3	0.0539 ppm	0.5434 ppm	0.2679 ppm	0.3448 ppm	144.2719 ppm	12.9972 ppm	0.1443 ppm
Concentration RSD	0.7 %	0.4 %	0.3 %	0.3 %	0.7 %	0.4 %	1.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.9472 ppm	3.7161 ppm	0.9854 ppm	10.4603 ppm	0.6016 ppm	0.6101 ppm	0.4477 ppm
Concentration per Run 1	31.9397 ppm	3.6971 ppm	0.9768 ppm	10.4060 ppm	0.6024 ppm	0.6115 ppm	0.4434 ppm
Concentration per Run 2	31.9111 ppm	3.7332 ppm	0.9805 ppm	10.4461 ppm	0.6038 ppm	0.6086 ppm	0.4468 ppm
Concentration per Run 3	31.9909 ppm	3.7179 ppm	0.9990 ppm	10.5287 ppm	0.5984 ppm	0.6103 ppm	0.4529 ppm
Concentration RSD	0.1 %	0.5 %	1.2 %	0.6 %	0.5 %	0.2 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1159 ppm	7.6165 ppm	0.9762 ppm	1.0021 ppm	1.3428 ppm	0.1180 ppm	0.5647 ppm
Concentration per Run 1	0.1172 ppm	7.5553 ppm	0.9727 ppm	0.9986 ppm	1.3318 ppm	0.1181 ppm	0.5645 ppm
Concentration per Run 2	0.1133 ppm	7.6837 ppm	0.9787 ppm	0.9989 ppm	1.3676 ppm	0.1172 ppm	0.5638 ppm
Concentration per Run 3	0.1173 ppm	7.6106 ppm	0.9773 ppm	1.0088 ppm	1.3291 ppm	0.1187 ppm	0.5659 ppm
Concentration RSD	1.9 %	0.8 %	0.3 %	0.6 %	1.6 %	0.6 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8136 ppm	106.8203 %	107.8153 %	100.2786 %	114.8189 %	118.6262 %	115.5372 %
Concentration per Run 1	0.8138 ppm	107.6414 %	108.1427 %	99.7418 %	115.3541 %	118.9837 %	114.9880 %
Concentration per Run 2	0.8149 ppm	106.9581 %	108.7492 %	100.3659 %	115.4118 %	119.4311 %	115.5113 %
Concentration per Run 3	0.8122 ppm	105.8612 %	106.5539 %	100.7282 %	113.6906 %	117.4637 %	116.1124 %
Concentration RSD	0.2 %	0.8 %	1.1 %	0.5 %	0.9 %	0.9 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975353-6D10 WG1975353
Analysis started at: 9/24/2024 1:04:40 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	13.7505 ppm	0.0115 ppm	0.0031 ppm	0.0487 ppm	0.0007 ppm	1.1473 ppm
Concentration per Run 1	0.0011 ppm	13.8190 ppm	0.0101 ppm	0.0054 ppm	0.0490 ppm	0.0007 ppm	1.1497 ppm
Concentration per Run 2	-0.0001 ppm	13.7092 ppm	0.0120 ppm	0.0025 ppm	0.0485 ppm	0.0006 ppm	1.1477 ppm
Concentration per Run 3	0.0003 ppm	13.7232 ppm	0.0123 ppm	0.0014 ppm	0.0484 ppm	0.0006 ppm	1.1445 ppm
Concentration RSD	145.3 %	0.4 %	10.3 %	67.0 %	0.7 %	4.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0116 ppm	0.0163 ppm	0.0203 ppm	31.4745 ppm	0.5767 ppm	0.0314 ppm
Concentration per Run 1	0.0002 ppm	0.0117 ppm	0.0161 ppm	0.0208 ppm	31.4509 ppm	0.5873 ppm	0.0319 ppm
Concentration per Run 2	0.0004 ppm	0.0121 ppm	0.0164 ppm	0.0200 ppm	31.3625 ppm	0.5834 ppm	0.0327 ppm
Concentration per Run 3	0.0002 ppm	0.0110 ppm	0.0164 ppm	0.0202 ppm	31.6101 ppm	0.5594 ppm	0.0296 ppm
Concentration RSD	44.0 %	4.6 %	1.2 %	1.9 %	0.4 %	2.6 %	5.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.7897 ppm	0.6964 ppm	0.0025 ppm	0.0320 ppm	0.0274 ppm	0.0190 ppm	0.0071 ppm
Concentration per Run 1	4.7774 ppm	0.6990 ppm	0.0025 ppm	0.0274 ppm	0.0263 ppm	0.0179 ppm	0.0099 ppm
Concentration per Run 2	4.8036 ppm	0.6940 ppm	0.0028 ppm	0.0412 ppm	0.0285 ppm	0.0206 ppm	0.0081 ppm
Concentration per Run 3	4.7883 ppm	0.6961 ppm	0.0021 ppm	0.0275 ppm	0.0272 ppm	0.0184 ppm	0.0033 ppm
Concentration RSD	0.3 %	0.4 %	14.2 %	24.9 %	4.1 %	7.4 %	48.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	1.5883 ppm	0.0006 ppm	0.0088 ppm	0.0787 ppm	0.0007 ppm	0.0177 ppm
Concentration per Run 1	0.0006 ppm	1.5316 ppm	0.0006 ppm	0.0088 ppm	0.0778 ppm	0.0000 ppm	0.0179 ppm
Concentration per Run 2	-0.0009 ppm	1.7343 ppm	0.0000 ppm	0.0088 ppm	0.0767 ppm	0.0011 ppm	0.0176 ppm
Concentration per Run 3	-0.0002 ppm	1.4991 ppm	0.0011 ppm	0.0088 ppm	0.0816 ppm	0.0010 ppm	0.0176 ppm
Concentration RSD	430.4 %	8.0 %	97.0 %	0.5 %	3.3 %	84.7 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0711 ppm	105.8449 %	104.6023 %	104.6303 %	105.4406 %	106.1667 %	107.8579 %
Concentration per Run 1	0.0705 ppm	107.1886 %	104.4056 %	105.0355 %	106.9660 %	106.0120 %	108.3290 %
Concentration per Run 2	0.0715 ppm	105.7293 %	105.1403 %	104.5642 %	105.2550 %	106.4085 %	107.7805 %
Concentration per Run 3	0.0713 ppm	104.6168 %	104.2612 %	104.2911 %	104.1006 %	106.0796 %	107.4641 %
Concentration RSD	0.8 %	1.2 %	0.5 %	0.4 %	1.4 %	0.2 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 1:08:35 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4987 ppm	0.4716 ppm	0.4724 ppm	0.4852 ppm	0.4826 ppm	0.4966 ppm	0.4755 ppm
Concentration per Run 1	0.4993 ppm	0.4882 ppm	0.4728 ppm	0.4850 ppm	0.4815 ppm	0.4968 ppm	0.4763 ppm
Concentration per Run 2	0.4989 ppm	0.4555 ppm	0.4709 ppm	0.4816 ppm	0.4804 ppm	0.4948 ppm	0.4732 ppm
Concentration per Run 3	0.4980 ppm	0.4710 ppm	0.4734 ppm	0.4889 ppm	0.4860 ppm	0.4983 ppm	0.4770 ppm
Recovery Percentage 1	99.744 %	94.316 %	94.475 %	97.036 %	96.527 %	99.326 %	95.106 %
Concentration RSD	0.1 %	3.5 %	0.3 %	0.8 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4838 ppm	0.4961 ppm	0.4764 ppm	0.4808 ppm	0.4959 ppm	5.0197 ppm	0.4813 ppm
Concentration per Run 1	0.4834 ppm	0.4967 ppm	0.4775 ppm	0.4819 ppm	0.4957 ppm	5.0384 ppm	0.4810 ppm
Concentration per Run 2	0.4856 ppm	0.4952 ppm	0.4742 ppm	0.4804 ppm	0.4920 ppm	5.0135 ppm	0.4811 ppm
Concentration per Run 3	0.4825 ppm	0.4965 ppm	0.4775 ppm	0.4803 ppm	0.4999 ppm	5.0073 ppm	0.4818 ppm
Recovery Percentage 1	96.760 %	99.229 %	95.282 %	96.167 %	99.175 %	100.395 %	96.258 %
Concentration RSD	0.3 %	0.2 %	0.4 %	0.2 %	0.8 %	0.3 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4787 ppm	0.4748 ppm	0.4806 ppm	9.7298 ppm	0.4960 ppm	0.4885 ppm	0.4955 ppm
Concentration per Run 1	0.4778 ppm	0.4749 ppm	0.4777 ppm	9.7240 ppm	0.4965 ppm	0.4877 ppm	0.4918 ppm
Concentration per Run 2	0.4789 ppm	0.4747 ppm	0.4830 ppm	9.6728 ppm	0.4965 ppm	0.4895 ppm	0.5011 ppm
Concentration per Run 3	0.4794 ppm	0.4749 ppm	0.4812 ppm	9.7926 ppm	0.4951 ppm	0.4883 ppm	0.4936 ppm
Recovery Percentage 1	95.742 %	94.964 %	96.123 %	97.298 %	99.208 %	97.700 %	99.106 %
Concentration RSD	0.2 %	0.0 %	0.6 %	0.6 %	0.2 %	0.2 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4842 ppm	5.1869 ppm	0.4679 ppm	0.4635 ppm	0.4879 ppm	0.4877 ppm	0.4738 ppm
Concentration per Run 1	0.4836 ppm	5.1833 ppm	0.4710 ppm	0.4624 ppm	0.4885 ppm	0.4875 ppm	0.4741 ppm
Concentration per Run 2	0.4897 ppm	5.1785 ppm	0.4649 ppm	0.4603 ppm	0.4875 ppm	0.4894 ppm	0.4749 ppm
Concentration per Run 3	0.4794 ppm	5.1989 ppm	0.4680 ppm	0.4677 ppm	0.4877 ppm	0.4862 ppm	0.4726 ppm
Recovery Percentage 1	96.846 %	98.798 %	93.590 %	92.696 %	97.584 %	97.536 %	94.770 %
Concentration RSD	1.1 %	0.2 %	0.6 %	0.8 %	0.1 %	0.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4924 ppm	105.9519 %	104.6522 %	105.3683 %	103.4333 %	104.1367 %	105.1334 %
Concentration per Run 1	0.4912 ppm	105.9979 %	105.0768 %	105.2552 %	103.3984 %	104.4983 %	104.9085 %
Concentration per Run 2	0.4920 ppm	105.4263 %	105.0116 %	105.5326 %	102.9455 %	104.6342 %	105.2377 %
Concentration per Run 3	0.4939 ppm	106.4314 %	103.8683 %	105.3173 %	103.9561 %	103.2777 %	105.2540 %
Recovery Percentage 1	98.477 %						
Concentration RSD	0.3 %	0.5 %	0.6 %	0.1 %	0.5 %	0.7 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 1:12:30 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0030 ppm	0.0016 ppm	0.0018 ppm	-0.0002 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0002 ppm	0.0063 ppm	0.0024 ppm	0.0016 ppm	-0.0003 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	0.0005 ppm	0.0093 ppm	0.0003 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	0.0007 ppm	-0.0067 ppm	0.0022 ppm	0.0040 ppm	-0.0002 ppm	0.0000 ppm	0.0009 ppm
Recovery Percentage 1	6.477 %	2.959 %	32.058 %	5.887 %	-1.887 %	0.701 %	1.934 %
Concentration RSD	63.2 %	286.3 %	72.2 %	122.8 %	39.2 %	53.7 %	47.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0055 ppm	0.0010 ppm	0.0010 ppm
Concentration per Run 1	-0.0001 ppm	-0.0007 ppm	-0.0004 ppm	0.0002 ppm	0.0068 ppm	0.0114 ppm	0.0022 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0037 ppm	-0.0130 ppm	0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0059 ppm	0.0045 ppm	0.0007 ppm
Recovery Percentage 1	-1.496 %	-0.844 %	-2.331 %	1.383 %	10.937 %	0.039 %	20.173 %
Concentration RSD	53.1 %	413.2 %	124.1 %	60.7 %	29.9 %	1,295.6 %	106.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0008 ppm	0.0000 ppm	0.0009 ppm	-0.0012 ppm	-0.0006 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 1	-0.0008 ppm	0.0001 ppm	0.0014 ppm	-0.0057 ppm	0.0003 ppm	0.0008 ppm	0.0073 ppm
Concentration per Run 2	0.0006 ppm	-0.0001 ppm	0.0005 ppm	-0.0041 ppm	-0.0015 ppm	-0.0008 ppm	0.0019 ppm
Concentration per Run 3	0.0025 ppm	0.0000 ppm	0.0010 ppm	0.0062 ppm	-0.0008 ppm	-0.0001 ppm	0.0030 ppm
Recovery Percentage 1	0.751 %	0.140 %	1.867 %	-0.061 %	-2.577 %	0.064 %	8.107 %
Concentration RSD	215.1 %	798.3 %	47.1 %	531.6 %	142.2 %	12,531.0 %	70.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	-0.0035 ppm	-0.0016 ppm	0.0001 ppm	0.0006 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 1	-0.0039 ppm	-0.0038 ppm	-0.0008 ppm	0.0001 ppm	0.0006 ppm	-0.0021 ppm	-0.0001 ppm
Concentration per Run 2	0.0010 ppm	-0.0049 ppm	-0.0016 ppm	0.0001 ppm	0.0005 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0019 ppm	-0.0024 ppm	0.0002 ppm	0.0006 ppm	-0.0009 ppm	0.0000 ppm
Recovery Percentage 1	-9.402 %	-0.700 %	-3.207 %	1.327 %	5.501 %	-7.070 %	-1.144 %
Concentration RSD	277.1 %	43.7 %	47.3 %	60.7 %	11.6 %	45.4 %	68.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0014 ppm	104.7018 %	101.8731 %	104.2145 %	103.8632 %	102.2396 %	104.7817 %
Concentration per Run 1	-0.0013 ppm	105.1946 %	100.1670 %	104.3556 %	104.1029 %	100.9000 %	104.6466 %
Concentration per Run 2	-0.0014 ppm	104.0640 %	103.2502 %	103.8570 %	103.3486 %	103.2319 %	104.8166 %
Concentration per Run 3	-0.0015 ppm	104.8467 %	102.2021 %	104.4309 %	104.1380 %	102.5869 %	104.8819 %
Recovery Percentage 1	-27.747 %						
Concentration RSD	10.6 %	0.6 %	1.5 %	0.3 %	0.4 %	1.2 %	0.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-05 WG1973830
Analysis started at: 9/24/2024 1:18:02 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0295 ppm	0.0013 ppm	0.0054 ppm	0.0055 ppm	0.0000 ppm	19.7892 ppm
Concentration per Run 1	0.0001 ppm	0.0274 ppm	0.0050 ppm	0.0049 ppm	0.0055 ppm	0.0000 ppm	19.7962 ppm
Concentration per Run 2	0.0000 ppm	0.0325 ppm	-0.0018 ppm	0.0060 ppm	0.0056 ppm	0.0000 ppm	19.8262 ppm
Concentration per Run 3	0.0001 ppm	0.0285 ppm	0.0007 ppm	0.0052 ppm	0.0055 ppm	0.0000 ppm	19.7451 ppm
Concentration RSD	98.4 %	9.1 %	260.9 %	10.6 %	1.7 %	102.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0003 ppm	-0.0006 ppm	0.0002 ppm	0.1253 ppm	0.7911 ppm	0.0033 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	-0.0001 ppm	0.1245 ppm	0.8261 ppm	0.0037 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.1249 ppm	0.7855 ppm	0.0034 ppm
Concentration per Run 3	-0.0002 ppm	-0.0007 ppm	-0.0008 ppm	0.0006 ppm	0.1264 ppm	0.7618 ppm	0.0029 ppm
Concentration RSD	179.3 %	174.7 %	45.3 %	208.9 %	0.8 %	4.1 %	12.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.5382 ppm	0.0370 ppm	0.0006 ppm	5.9299 ppm	0.0007 ppm	-0.0002 ppm	-0.0013 ppm
Concentration per Run 1	2.5407 ppm	0.0366 ppm	0.0002 ppm	5.9214 ppm	0.0013 ppm	-0.0012 ppm	-0.0015 ppm
Concentration per Run 2	2.5498 ppm	0.0370 ppm	0.0010 ppm	5.9345 ppm	0.0010 ppm	0.0003 ppm	-0.0015 ppm
Concentration per Run 3	2.5241 ppm	0.0373 ppm	0.0005 ppm	5.9340 ppm	-0.0002 ppm	0.0002 ppm	-0.0009 ppm
Concentration RSD	0.5 %	1.0 %	64.8 %	0.1 %	109.0 %	426.7 %	24.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0032 ppm	10.7220 ppm	-0.0021 ppm	0.1594 ppm	0.0009 ppm	0.0012 ppm	0.0008 ppm
Concentration per Run 1	-0.0025 ppm	10.7449 ppm	-0.0015 ppm	0.1600 ppm	0.0008 ppm	0.0030 ppm	0.0009 ppm
Concentration per Run 2	-0.0025 ppm	10.7691 ppm	-0.0017 ppm	0.1590 ppm	0.0009 ppm	0.0010 ppm	0.0009 ppm
Concentration per Run 3	-0.0048 ppm	10.6521 ppm	-0.0031 ppm	0.1593 ppm	0.0011 ppm	-0.0003 ppm	0.0007 ppm
Concentration RSD	40.8 %	0.6 %	42.9 %	0.3 %	19.1 %	138.0 %	10.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	101.9996 %	103.5650 %	101.1940 %	99.9728 %	103.3966 %	101.3565 %
Concentration per Run 1	-0.0001 ppm	100.8494 %	104.1295 %	101.0617 %	98.9643 %	104.0196 %	101.3279 %
Concentration per Run 2	-0.0002 ppm	101.8549 %	104.0053 %	101.3471 %	99.9415 %	104.0638 %	101.1535 %
Concentration per Run 3	-0.0004 ppm	103.2945 %	102.5601 %	101.1733 %	101.0124 %	102.1063 %	101.5881 %
Concentration RSD	65.3 %	1.2 %	0.8 %	0.1 %	1.0 %	1.1 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1973830-7 WG1973830
Analysis started at: 9/24/2024 1:22:12 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0504 ppm	1.9425 ppm	0.1199 ppm	1.0075 ppm	1.9373 ppm	0.0496 ppm	29.4694 ppm
Concentration per Run 1	0.0504 ppm	1.9629 ppm	0.1233 ppm	1.0105 ppm	1.9308 ppm	0.0495 ppm	29.4702 ppm
Concentration per Run 2	0.0502 ppm	1.9419 ppm	0.1179 ppm	1.0054 ppm	1.9421 ppm	0.0497 ppm	29.5753 ppm
Concentration per Run 3	0.0506 ppm	1.9227 ppm	0.1186 ppm	1.0067 ppm	1.9390 ppm	0.0496 ppm	29.3627 ppm
Concentration RSD	0.4 %	1.0 %	2.4 %	0.3 %	0.3 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0510 ppm	0.4803 ppm	0.1898 ppm	0.2431 ppm	1.0949 ppm	11.0838 ppm	0.0036 ppm
Concentration per Run 1	0.0511 ppm	0.4793 ppm	0.1898 ppm	0.2423 ppm	1.0950 ppm	11.1022 ppm	0.0043 ppm
Concentration per Run 2	0.0507 ppm	0.4807 ppm	0.1900 ppm	0.2450 ppm	1.0948 ppm	11.1017 ppm	0.0026 ppm
Concentration per Run 3	0.0511 ppm	0.4810 ppm	0.1898 ppm	0.2420 ppm	1.0947 ppm	11.0475 ppm	0.0039 ppm
Concentration RSD	0.5 %	0.2 %	0.1 %	0.7 %	0.0 %	0.3 %	25.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.3868 ppm	0.5244 ppm	0.9286 ppm	16.0245 ppm	0.4813 ppm	0.5188 ppm	0.4429 ppm
Concentration per Run 1	12.4098 ppm	0.5245 ppm	0.9160 ppm	16.0473 ppm	0.4831 ppm	0.5201 ppm	0.4366 ppm
Concentration per Run 2	12.3920 ppm	0.5251 ppm	0.9301 ppm	16.0532 ppm	0.4794 ppm	0.5191 ppm	0.4454 ppm
Concentration per Run 3	12.3587 ppm	0.5236 ppm	0.9397 ppm	15.9729 ppm	0.4814 ppm	0.5171 ppm	0.4469 ppm
Concentration RSD	0.2 %	0.1 %	1.3 %	0.3 %	0.4 %	0.3 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1174 ppm	11.5330 ppm	0.9446 ppm	1.1207 ppm	1.0032 ppm	0.1185 ppm	0.4826 ppm
Concentration per Run 1	0.1198 ppm	11.5150 ppm	0.9365 ppm	1.1167 ppm	1.0033 ppm	0.1171 ppm	0.4817 ppm
Concentration per Run 2	0.1150 ppm	11.5475 ppm	0.9505 ppm	1.1236 ppm	1.0032 ppm	0.1193 ppm	0.4836 ppm
Concentration per Run 3	0.1174 ppm	11.5366 ppm	0.9470 ppm	1.1219 ppm	1.0032 ppm	0.1192 ppm	0.4825 ppm
Concentration RSD	2.1 %	0.1 %	0.8 %	0.3 %	0.0 %	1.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4877 ppm	104.6951 %	104.3733 %	101.3178 %	102.0459 %	103.3078 %	102.6286 %
Concentration per Run 1	0.4876 ppm	104.2966 %	104.7915 %	100.6535 %	101.4809 %	104.2867 %	102.2655 %
Concentration per Run 2	0.4890 ppm	104.8956 %	104.3123 %	102.0234 %	102.5884 %	103.7620 %	103.3091 %
Concentration per Run 3	0.4863 ppm	104.8929 %	104.0162 %	101.2764 %	102.0684 %	101.8746 %	102.3112 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.7 %	0.5 %	1.2 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1973830-8 WG1973830
Analysis started at: 9/24/2024 1:26:07 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0502 ppm	1.9612 ppm	0.1206 ppm	1.0165 ppm	1.9607 ppm	0.0501 ppm	29.7627 ppm
Concentration per Run 1	0.0506 ppm	1.9582 ppm	0.1221 ppm	1.0179 ppm	1.9501 ppm	0.0500 ppm	29.5757 ppm
Concentration per Run 2	0.0502 ppm	1.9683 ppm	0.1206 ppm	1.0140 ppm	1.9630 ppm	0.0502 ppm	29.7567 ppm
Concentration per Run 3	0.0499 ppm	1.9573 ppm	0.1190 ppm	1.0177 ppm	1.9689 ppm	0.0502 ppm	29.9556 ppm
Concentration RSD	0.7 %	0.3 %	1.3 %	0.2 %	0.5 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0510 ppm	0.4817 ppm	0.1907 ppm	0.2440 ppm	1.0988 ppm	11.2959 ppm	0.0039 ppm
Concentration per Run 1	0.0516 ppm	0.4837 ppm	0.1906 ppm	0.2447 ppm	1.0992 ppm	11.2637 ppm	0.0041 ppm
Concentration per Run 2	0.0511 ppm	0.4803 ppm	0.1894 ppm	0.2437 ppm	1.0959 ppm	11.3402 ppm	0.0028 ppm
Concentration per Run 3	0.0504 ppm	0.4811 ppm	0.1921 ppm	0.2436 ppm	1.1013 ppm	11.2839 ppm	0.0049 ppm
Concentration RSD	1.2 %	0.4 %	0.7 %	0.2 %	0.2 %	0.4 %	26.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.5239 ppm	0.5281 ppm	0.9485 ppm	16.1882 ppm	0.4818 ppm	0.5254 ppm	0.4434 ppm
Concentration per Run 1	12.5652 ppm	0.5257 ppm	0.9387 ppm	16.0882 ppm	0.4822 ppm	0.5245 ppm	0.4440 ppm
Concentration per Run 2	12.4730 ppm	0.5303 ppm	0.9445 ppm	16.2037 ppm	0.4795 ppm	0.5242 ppm	0.4343 ppm
Concentration per Run 3	12.5336 ppm	0.5284 ppm	0.9623 ppm	16.2727 ppm	0.4836 ppm	0.5274 ppm	0.4520 ppm
Concentration RSD	0.4 %	0.4 %	1.3 %	0.6 %	0.4 %	0.3 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1191 ppm	11.5678 ppm	0.9670 ppm	1.1342 ppm	1.0173 ppm	0.1212 ppm	0.4847 ppm
Concentration per Run 1	0.1176 ppm	11.6250 ppm	0.9667 ppm	1.1265 ppm	1.0201 ppm	0.1220 ppm	0.4859 ppm
Concentration per Run 2	0.1197 ppm	11.5317 ppm	0.9591 ppm	1.1350 ppm	1.0126 ppm	0.1217 ppm	0.4840 ppm
Concentration per Run 3	0.1201 ppm	11.5467 ppm	0.9754 ppm	1.1411 ppm	1.0193 ppm	0.1200 ppm	0.4842 ppm
Concentration RSD	1.1 %	0.4 %	0.8 %	0.6 %	0.4 %	0.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4906 ppm	104.3579 %	104.0609 %	101.3563 %	101.6725 %	103.2578 %	102.4524 %
Concentration per Run 1	0.4917 ppm	103.4994 %	103.9539 %	101.2998 %	100.8655 %	103.0511 %	102.5422 %
Concentration per Run 2	0.4889 ppm	105.5842 %	103.8017 %	102.1214 %	102.9821 %	103.2157 %	103.0759 %
Concentration per Run 3	0.4911 ppm	103.9901 %	104.4270 %	100.6476 %	101.1698 %	103.5067 %	101.7391 %
Concentration RSD	0.3 %	1.0 %	0.3 %	0.7 %	1.1 %	0.2 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1973830-9 WG1973830
Analysis started at: 9/24/2024 1:30:02 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0501 ppm	2.0567 ppm	0.1246 ppm	1.0521 ppm	2.0371 ppm	0.0523 ppm	29.6472 ppm
Concentration per Run 1	0.0501 ppm	2.0709 ppm	0.1219 ppm	1.0494 ppm	2.0388 ppm	0.0525 ppm	29.7526 ppm
Concentration per Run 2	0.0502 ppm	2.0432 ppm	0.1246 ppm	1.0499 ppm	2.0455 ppm	0.0523 ppm	29.7408 ppm
Concentration per Run 3	0.0500 ppm	2.0560 ppm	0.1273 ppm	1.0571 ppm	2.0269 ppm	0.0522 ppm	29.4483 ppm
Concentration RSD	0.2 %	0.7 %	2.2 %	0.4 %	0.5 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0536 ppm	0.5054 ppm	0.2005 ppm	0.2556 ppm	1.1678 ppm	11.6079 ppm	0.0024 ppm
Concentration per Run 1	0.0534 ppm	0.5051 ppm	0.1998 ppm	0.2556 ppm	1.1653 ppm	11.6032 ppm	0.0016 ppm
Concentration per Run 2	0.0538 ppm	0.5060 ppm	0.2003 ppm	0.2548 ppm	1.1749 ppm	11.6450 ppm	0.0029 ppm
Concentration per Run 3	0.0536 ppm	0.5053 ppm	0.2014 ppm	0.2562 ppm	1.1632 ppm	11.5754 ppm	0.0027 ppm
Concentration RSD	0.3 %	0.1 %	0.4 %	0.3 %	0.5 %	0.3 %	28.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.8559 ppm	0.5513 ppm	0.9780 ppm	16.5702 ppm	0.5060 ppm	0.5405 ppm	0.3755 ppm
Concentration per Run 1	12.8634 ppm	0.5529 ppm	0.9619 ppm	16.6360 ppm	0.5045 ppm	0.5440 ppm	0.3594 ppm
Concentration per Run 2	12.8471 ppm	0.5516 ppm	0.9816 ppm	16.6128 ppm	0.5074 ppm	0.5406 ppm	0.3726 ppm
Concentration per Run 3	12.8573 ppm	0.5492 ppm	0.9905 ppm	16.4617 ppm	0.5061 ppm	0.5370 ppm	0.3946 ppm
Concentration RSD	0.1 %	0.3 %	1.5 %	0.6 %	0.3 %	0.6 %	4.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1197 ppm	11.3890 ppm	1.0192 ppm	1.1634 ppm	1.0560 ppm	0.1239 ppm	0.5085 ppm
Concentration per Run 1	0.1180 ppm	11.3885 ppm	1.0101 ppm	1.1645 ppm	1.0503 ppm	0.1249 ppm	0.5085 ppm
Concentration per Run 2	0.1193 ppm	11.3791 ppm	1.0239 ppm	1.1692 ppm	1.0618 ppm	0.1226 ppm	0.5090 ppm
Concentration per Run 3	0.1218 ppm	11.3994 ppm	1.0237 ppm	1.1566 ppm	1.0558 ppm	0.1242 ppm	0.5079 ppm
Concentration RSD	1.6 %	0.1 %	0.8 %	0.5 %	0.5 %	1.0 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5168 ppm	103.9719 %	104.2914 %	100.8299 %	101.2737 %	103.6050 %	101.7775 %
Concentration per Run 1	0.5149 ppm	103.7734 %	103.5698 %	99.8499 %	101.1776 %	103.1378 %	100.9754 %
Concentration per Run 2	0.5201 ppm	103.7420 %	104.0697 %	101.1188 %	100.9403 %	103.4058 %	102.3486 %
Concentration per Run 3	0.5154 ppm	104.4002 %	105.2347 %	101.5209 %	101.7031 %	104.2715 %	102.0085 %
Concentration RSD	0.6 %	0.4 %	0.8 %	0.9 %	0.4 %	0.6 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1973830-10D5 WG1973830
Analysis started at: 9/24/2024 1:33:57 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0077 ppm	0.0021 ppm	0.0025 ppm	0.0011 ppm	0.0000 ppm	3.9449 ppm
Concentration per Run 1	0.0004 ppm	0.0057 ppm	0.0023 ppm	0.0033 ppm	0.0010 ppm	0.0000 ppm	3.9369 ppm
Concentration per Run 2	0.0004 ppm	0.0026 ppm	0.0038 ppm	0.0009 ppm	0.0011 ppm	0.0000 ppm	3.9402 ppm
Concentration per Run 3	0.0007 ppm	0.0149 ppm	0.0002 ppm	0.0034 ppm	0.0010 ppm	0.0000 ppm	3.9575 ppm
Concentration RSD	34.8 %	82.7 %	86.8 %	54.5 %	4.3 %	340.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0283 ppm	0.1576 ppm	0.0016 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0307 ppm	0.1507 ppm	0.0023 ppm
Concentration per Run 2	0.0001 ppm	-0.0006 ppm	-0.0004 ppm	0.0003 ppm	0.0274 ppm	0.1663 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	-0.0003 ppm	-0.0004 ppm	0.0268 ppm	0.1558 ppm	0.0015 ppm
Concentration RSD	355.6 %	319.6 %	379.9 %	1,647.2 %	7.4 %	5.0 %	46.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5007 ppm	0.0076 ppm	0.0059 ppm	1.1846 ppm	0.0004 ppm	0.0004 ppm	0.0120 ppm
Concentration per Run 1	0.5000 ppm	0.0076 ppm	0.0064 ppm	1.1846 ppm	0.0010 ppm	-0.0001 ppm	0.0150 ppm
Concentration per Run 2	0.4985 ppm	0.0076 ppm	0.0058 ppm	1.1761 ppm	0.0003 ppm	0.0004 ppm	0.0081 ppm
Concentration per Run 3	0.5037 ppm	0.0075 ppm	0.0056 ppm	1.1930 ppm	0.0000 ppm	0.0008 ppm	0.0129 ppm
Concentration RSD	0.5 %	1.3 %	7.2 %	0.7 %	125.7 %	114.6 %	29.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0028 ppm	2.0633 ppm	0.0197 ppm	0.0320 ppm	0.0008 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0009 ppm	2.0562 ppm	0.0198 ppm	0.0319 ppm	0.0011 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 2	-0.0026 ppm	2.0540 ppm	0.0202 ppm	0.0322 ppm	0.0008 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 3	-0.0048 ppm	2.0797 ppm	0.0192 ppm	0.0320 ppm	0.0005 ppm	0.0006 ppm	-0.0001 ppm
Concentration RSD	71.6 %	0.7 %	2.7 %	0.5 %	37.2 %	745.3 %	75.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0009 ppm	105.6021 %	104.2920 %	105.0187 %	103.4454 %	103.6187 %	104.9009 %
Concentration per Run 1	-0.0009 ppm	106.5530 %	105.0390 %	105.7641 %	104.4160 %	104.5943 %	105.1170 %
Concentration per Run 2	-0.0008 ppm	105.0902 %	104.4178 %	104.8645 %	102.6985 %	103.2876 %	105.1140 %
Concentration per Run 3	-0.0009 ppm	105.1630 %	103.4192 %	104.4275 %	103.2217 %	102.9741 %	104.4718 %
Concentration RSD	3.6 %	0.8 %	0.8 %	0.6 %	0.9 %	0.8 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453016-04 WG1975268
Analysis started at: 9/24/2024 1:37:51 PM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.2038 ppm	0.0015 ppm	0.8367 ppm	0.0097 ppm	0.0000 ppm	6.1100 ppm
Concentration per Run 1	-0.0004 ppm	0.2083 ppm	0.0055 ppm	0.8416 ppm	0.0098 ppm	0.0000 ppm	6.0937 ppm
Concentration per Run 2	0.0004 ppm	0.2047 ppm	-0.0028 ppm	0.8356 ppm	0.0096 ppm	0.0000 ppm	6.1234 ppm
Concentration per Run 3	0.0006 ppm	0.1985 ppm	0.0017 ppm	0.8328 ppm	0.0098 ppm	0.0000 ppm	6.1130 ppm
Concentration RSD	277.9 %	2.4 %	286.3 %	0.5 %	1.0 %	8,111.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0003 ppm	0.0043 ppm	0.0062 ppm	0.0178 ppm	2.4353 ppm	0.0052 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0045 ppm	0.0063 ppm	0.0187 ppm	2.4362 ppm	0.0046 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0045 ppm	0.0063 ppm	0.0171 ppm	2.4355 ppm	0.0053 ppm
Concentration per Run 3	0.0002 ppm	0.0005 ppm	0.0040 ppm	0.0061 ppm	0.0175 ppm	2.4344 ppm	0.0058 ppm
Concentration RSD	54.8 %	98.8 %	6.2 %	1.3 %	4.8 %	0.0 %	11.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.9919 ppm	0.0733 ppm	0.0022 ppm	288.8625 ppm	0.2218 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 1	1.9905 ppm	0.0732 ppm	0.0023 ppm	288.2381 ppm	0.2247 ppm	0.0007 ppm	0.0007 ppm
Concentration per Run 2	2.0004 ppm	0.0737 ppm	0.0020 ppm	289.6128 ppm	0.2216 ppm	0.0013 ppm	0.0063 ppm
Concentration per Run 3	1.9849 ppm	0.0730 ppm	0.0022 ppm	288.7364 ppm	0.2191 ppm	-0.0001 ppm	-0.0047 ppm
Concentration RSD	0.4 %	0.5 %	8.3 %	0.2 %	1.3 %	110.6 %	725.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	1.1780 ppm	-0.0007 ppm	0.0518 ppm	0.0007 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	-0.0029 ppm	1.1757 ppm	0.0003 ppm	0.0519 ppm	0.0008 ppm	0.0024 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	1.1827 ppm	-0.0005 ppm	0.0518 ppm	0.0007 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 3	-0.0046 ppm	1.1756 ppm	-0.0020 ppm	0.0518 ppm	0.0007 ppm	0.0007 ppm	0.0002 ppm
Concentration RSD	92.9 %	0.3 %	158.6 %	0.1 %	10.8 %	92.1 %	68.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0189 ppm	100.1653 %	102.0721 %	94.0931 %	97.7640 %	101.3925 %	99.2409 %
Concentration per Run 1	0.0188 ppm	99.9506 %	102.8105 %	93.6910 %	97.8365 %	102.4348 %	98.9765 %
Concentration per Run 2	0.0188 ppm	99.9183 %	102.0388 %	94.1514 %	97.1659 %	101.1175 %	98.9987 %
Concentration per Run 3	0.0190 ppm	100.6270 %	101.3671 %	94.4370 %	98.2894 %	100.6253 %	99.7474 %
Concentration RSD	0.7 %	0.4 %	0.7 %	0.4 %	0.6 %	0.9 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-3 WG1975268
Analysis started at: 9/24/2024 1:41:46 PM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0494 ppm	2.1500 ppm	0.1267 ppm	1.7725 ppm	1.9665 ppm	0.0501 ppm	15.8640 ppm
Concentration per Run 1	0.0491 ppm	2.1624 ppm	0.1240 ppm	1.7728 ppm	1.9659 ppm	0.0501 ppm	15.8440 ppm
Concentration per Run 2	0.0496 ppm	2.1597 ppm	0.1274 ppm	1.7685 ppm	1.9659 ppm	0.0504 ppm	15.9087 ppm
Concentration per Run 3	0.0495 ppm	2.1281 ppm	0.1287 ppm	1.7762 ppm	1.9678 ppm	0.0499 ppm	15.8393 ppm
Concentration RSD	0.5 %	0.9 %	1.9 %	0.2 %	0.1 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0525 ppm	0.4918 ppm	0.1956 ppm	0.2499 ppm	1.0183 ppm	12.4678 ppm	0.0054 ppm
Concentration per Run 1	0.0522 ppm	0.4908 ppm	0.1948 ppm	0.2495 ppm	1.0228 ppm	12.4461 ppm	0.0061 ppm
Concentration per Run 2	0.0519 ppm	0.4876 ppm	0.1962 ppm	0.2495 ppm	1.0211 ppm	12.4682 ppm	0.0044 ppm
Concentration per Run 3	0.0533 ppm	0.4970 ppm	0.1958 ppm	0.2507 ppm	1.0109 ppm	12.4891 ppm	0.0059 ppm
Concentration RSD	1.4 %	1.0 %	0.4 %	0.3 %	0.6 %	0.2 %	16.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.4502 ppm	0.5677 ppm	0.9136 ppm	290.8890 ppm	0.7107 ppm	0.5273 ppm	0.5009 ppm
Concentration per Run 1	11.4264 ppm	0.5671 ppm	0.8964 ppm	290.6259 ppm	0.7076 ppm	0.5284 ppm	0.5054 ppm
Concentration per Run 2	11.4355 ppm	0.5697 ppm	0.9125 ppm	290.9389 ppm	0.7105 ppm	0.5262 ppm	0.4944 ppm
Concentration per Run 3	11.4887 ppm	0.5663 ppm	0.9319 ppm	291.1022 ppm	0.7139 ppm	0.5272 ppm	0.5029 ppm
Concentration RSD	0.3 %	0.3 %	1.9 %	0.1 %	0.4 %	0.2 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1206 ppm	1.7979 ppm	0.9167 ppm	0.9892 ppm	0.9844 ppm	0.1151 ppm	0.4982 ppm
Concentration per Run 1	0.1194 ppm	1.7906 ppm	0.9133 ppm	0.9910 ppm	0.9769 ppm	0.1163 ppm	0.4983 ppm
Concentration per Run 2	0.1211 ppm	1.8003 ppm	0.9139 ppm	0.9902 ppm	0.9884 ppm	0.1140 ppm	0.4964 ppm
Concentration per Run 3	0.1211 ppm	1.8028 ppm	0.9229 ppm	0.9864 ppm	0.9878 ppm	0.1150 ppm	0.5000 ppm
Concentration RSD	0.8 %	0.4 %	0.6 %	0.2 %	0.7 %	1.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5393 ppm	100.3092 %	102.9875 %	94.4257 %	97.4936 %	101.7898 %	99.2293 %
Concentration per Run 1	0.5410 ppm	99.9066 %	103.3682 %	94.7502 %	97.0235 %	102.2633 %	99.6657 %
Concentration per Run 2	0.5360 ppm	101.3517 %	102.5117 %	94.3423 %	98.5647 %	101.3442 %	99.1159 %
Concentration per Run 3	0.5410 ppm	99.6693 %	103.0827 %	94.1846 %	96.8925 %	101.7620 %	98.9064 %
Concentration RSD	0.5 %	0.9 %	0.4 %	0.3 %	1.0 %	0.5 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-4 WG1975268
Analysis started at: 9/24/2024 1:45:40 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.2042 ppm	0.0006 ppm	0.8404 ppm	0.0096 ppm	0.0000 ppm	6.0766 ppm
Concentration per Run 1	0.0007 ppm	0.1990 ppm	0.0006 ppm	0.8386 ppm	0.0095 ppm	0.0000 ppm	6.0547 ppm
Concentration per Run 2	-0.0001 ppm	0.2002 ppm	0.0008 ppm	0.8434 ppm	0.0095 ppm	0.0000 ppm	6.0826 ppm
Concentration per Run 3	0.0007 ppm	0.2135 ppm	0.0005 ppm	0.8393 ppm	0.0097 ppm	0.0000 ppm	6.0925 ppm
Concentration RSD	106.7 %	3.9 %	27.5 %	0.3 %	1.4 %	371.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0041 ppm	0.0064 ppm	0.0176 ppm	2.4519 ppm	0.0047 ppm
Concentration per Run 1	0.0002 ppm	0.0009 ppm	0.0042 ppm	0.0068 ppm	0.0179 ppm	2.4532 ppm	0.0066 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0039 ppm	0.0059 ppm	0.0163 ppm	2.4285 ppm	0.0034 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0042 ppm	0.0064 ppm	0.0187 ppm	2.4741 ppm	0.0041 ppm
Concentration RSD	72.5 %	320.3 %	3.3 %	7.0 %	7.1 %	0.9 %	35.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.9796 ppm	0.0729 ppm	0.0055 ppm	286.5780 ppm	0.2215 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 1	1.9817 ppm	0.0733 ppm	0.0053 ppm	285.5084 ppm	0.2219 ppm	0.0016 ppm	-0.0008 ppm
Concentration per Run 2	1.9833 ppm	0.0727 ppm	0.0057 ppm	286.2629 ppm	0.2206 ppm	-0.0001 ppm	0.0010 ppm
Concentration per Run 3	1.9739 ppm	0.0728 ppm	0.0054 ppm	287.9626 ppm	0.2219 ppm	0.0009 ppm	-0.0011 ppm
Concentration RSD	0.3 %	0.5 %	4.3 %	0.4 %	0.3 %	110.9 %	383.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	1.1708 ppm	0.0044 ppm	0.0513 ppm	0.0012 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0003 ppm	1.1658 ppm	0.0047 ppm	0.0513 ppm	0.0012 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 2	-0.0030 ppm	1.1737 ppm	0.0045 ppm	0.0511 ppm	0.0011 ppm	0.0014 ppm	0.0006 ppm
Concentration per Run 3	-0.0017 ppm	1.1729 ppm	0.0040 ppm	0.0514 ppm	0.0012 ppm	0.0022 ppm	0.0004 ppm
Concentration RSD	113.9 %	0.4 %	8.3 %	0.3 %	4.4 %	189.1 %	69.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0189 ppm	99.9702 %	102.4325 %	94.3680 %	97.6722 %	101.7019 %	99.2013 %
Concentration per Run 1	0.0187 ppm	100.3269 %	103.0123 %	95.2225 %	98.1573 %	101.8591 %	99.9090 %
Concentration per Run 2	0.0191 ppm	99.4883 %	102.8452 %	93.8360 %	97.2424 %	102.1999 %	98.6422 %
Concentration per Run 3	0.0188 ppm	100.0952 %	101.4399 %	94.0455 %	97.6168 %	101.0466 %	99.0526 %
Concentration RSD	1.0 %	0.4 %	0.8 %	0.8 %	0.5 %	0.6 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-5 WG1975268
Analysis started at: 9/24/2024 1:49:34 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0478 ppm	2.2133 ppm	0.1269 ppm	1.8343 ppm	2.0208 ppm	0.0517 ppm	16.4660 ppm
Concentration per Run 1	0.0483 ppm	2.2120 ppm	0.1250 ppm	1.8316 ppm	2.0213 ppm	0.0518 ppm	16.4174 ppm
Concentration per Run 2	0.0473 ppm	2.2125 ppm	0.1284 ppm	1.8405 ppm	2.0243 ppm	0.0518 ppm	16.4813 ppm
Concentration per Run 3	0.0479 ppm	2.2155 ppm	0.1273 ppm	1.8308 ppm	2.0169 ppm	0.0516 ppm	16.4993 ppm
Concentration RSD	1.0 %	0.1 %	1.4 %	0.3 %	0.2 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0537 ppm	0.5029 ppm	0.2009 ppm	0.2574 ppm	1.0535 ppm	13.1913 ppm	0.0049 ppm
Concentration per Run 1	0.0538 ppm	0.5033 ppm	0.2011 ppm	0.2570 ppm	1.0586 ppm	13.1766 ppm	0.0060 ppm
Concentration per Run 2	0.0533 ppm	0.5030 ppm	0.2014 ppm	0.2569 ppm	1.0473 ppm	13.2426 ppm	0.0043 ppm
Concentration per Run 3	0.0541 ppm	0.5024 ppm	0.2001 ppm	0.2583 ppm	1.0546 ppm	13.1545 ppm	0.0044 ppm
Concentration RSD	0.8 %	0.1 %	0.3 %	0.3 %	0.5 %	0.3 %	19.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.0707 ppm	0.5792 ppm	0.9709 ppm	288.1337 ppm	0.7221 ppm	0.5413 ppm	0.3636 ppm
Concentration per Run 1	12.0521 ppm	0.5796 ppm	0.9586 ppm	287.2690 ppm	0.7226 ppm	0.5416 ppm	0.3485 ppm
Concentration per Run 2	12.0308 ppm	0.5786 ppm	0.9705 ppm	289.0735 ppm	0.7250 ppm	0.5406 ppm	0.3660 ppm
Concentration per Run 3	12.1293 ppm	0.5795 ppm	0.9835 ppm	288.0586 ppm	0.7186 ppm	0.5415 ppm	0.3764 ppm
Concentration RSD	0.4 %	0.1 %	1.3 %	0.3 %	0.4 %	0.1 %	3.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1263 ppm	2.2170 ppm	0.9994 ppm	1.0508 ppm	1.0540 ppm	0.1188 ppm	0.5107 ppm
Concentration per Run 1	0.1289 ppm	2.2232 ppm	0.9982 ppm	1.0503 ppm	1.0523 ppm	0.1176 ppm	0.5107 ppm
Concentration per Run 2	0.1225 ppm	2.2064 ppm	0.9984 ppm	1.0537 ppm	1.0538 ppm	0.1193 ppm	0.5086 ppm
Concentration per Run 3	0.1277 ppm	2.2213 ppm	1.0016 ppm	1.0485 ppm	1.0560 ppm	0.1195 ppm	0.5127 ppm
Concentration RSD	2.7 %	0.4 %	0.2 %	0.3 %	0.2 %	0.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5528 ppm	100.2038 %	103.1343 %	94.0897 %	97.3239 %	102.1415 %	98.3925 %
Concentration per Run 1	0.5526 ppm	99.5284 %	103.7697 %	93.8130 %	96.8312 %	102.7966 %	98.1351 %
Concentration per Run 2	0.5530 ppm	100.6004 %	103.1234 %	94.1339 %	97.7283 %	102.2446 %	98.1759 %
Concentration per Run 3	0.5528 ppm	100.4824 %	102.5099 %	94.3220 %	97.4122 %	101.3833 %	98.8666 %
Concentration RSD	0.0 %	0.6 %	0.6 %	0.3 %	0.5 %	0.7 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975268-6D5 WG1975268
Analysis started at: 9/24/2024 1:53:29 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0468 ppm	0.0010 ppm	0.1753 ppm	0.0019 ppm	0.0000 ppm	1.2265 ppm
Concentration per Run 1	0.0002 ppm	0.0458 ppm	0.0004 ppm	0.1776 ppm	0.0020 ppm	0.0000 ppm	1.2267 ppm
Concentration per Run 2	0.0006 ppm	0.0539 ppm	0.0029 ppm	0.1721 ppm	0.0020 ppm	-0.0001 ppm	1.2379 ppm
Concentration per Run 3	0.0001 ppm	0.0405 ppm	-0.0004 ppm	0.1761 ppm	0.0018 ppm	0.0000 ppm	1.2150 ppm
Concentration RSD	97.8 %	14.5 %	179.0 %	1.6 %	5.3 %	382.0 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0003 ppm	0.0011 ppm	0.0012 ppm	0.0087 ppm	0.5197 ppm	0.0017 ppm
Concentration per Run 1	0.0003 ppm	-0.0003 ppm	0.0008 ppm	0.0012 ppm	0.0079 ppm	0.5360 ppm	0.0019 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0010 ppm	0.0087 ppm	0.5302 ppm	0.0016 ppm
Concentration per Run 3	0.0001 ppm	-0.0006 ppm	0.0014 ppm	0.0016 ppm	0.0096 ppm	0.4931 ppm	0.0018 ppm
Concentration RSD	53.5 %	70.2 %	25.8 %	23.7 %	10.0 %	4.5 %	9.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4092 ppm	0.0148 ppm	0.0057 ppm	58.9132 ppm	0.0464 ppm	-0.0002 ppm	0.0102 ppm
Concentration per Run 1	0.4086 ppm	0.0147 ppm	0.0060 ppm	58.5687 ppm	0.0453 ppm	-0.0002 ppm	0.0101 ppm
Concentration per Run 2	0.4070 ppm	0.0151 ppm	0.0051 ppm	59.2229 ppm	0.0476 ppm	-0.0003 ppm	0.0113 ppm
Concentration per Run 3	0.4119 ppm	0.0148 ppm	0.0059 ppm	58.9478 ppm	0.0463 ppm	-0.0001 ppm	0.0090 ppm
Concentration RSD	0.6 %	1.4 %	8.8 %	0.6 %	2.5 %	40.7 %	11.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	0.2309 ppm	0.0164 ppm	0.0105 ppm	0.0006 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	0.2297 ppm	0.0166 ppm	0.0105 ppm	0.0007 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 2	-0.0018 ppm	0.2331 ppm	0.0158 ppm	0.0106 ppm	0.0007 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	-0.0035 ppm	0.2300 ppm	0.0169 ppm	0.0104 ppm	0.0005 ppm	0.0008 ppm	-0.0002 ppm
Concentration RSD	84.4 %	0.8 %	3.3 %	0.7 %	22.6 %	208.5 %	9,340.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0028 ppm	103.6059 %	104.0248 %	101.3966 %	101.2539 %	103.2818 %	102.7055 %
Concentration per Run 1	0.0028 ppm	104.3588 %	103.5298 %	102.0495 %	102.0120 %	102.5659 %	103.3936 %
Concentration per Run 2	0.0028 ppm	103.8564 %	103.9633 %	100.0091 %	101.3934 %	103.5216 %	101.4759 %
Concentration per Run 3	0.0029 ppm	102.6024 %	104.5812 %	102.1312 %	100.3562 %	103.7580 %	103.2471 %
Concentration RSD	2.6 %	0.9 %	0.5 %	1.2 %	0.8 %	0.6 %	1.0 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 1:57:24 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4975 ppm	0.4752 ppm	0.4768 ppm	0.4832 ppm	0.4879 ppm	0.4989 ppm	0.4781 ppm
Concentration per Run 1	0.5003 ppm	0.4714 ppm	0.4767 ppm	0.4847 ppm	0.4897 ppm	0.4987 ppm	0.4808 ppm
Concentration per Run 2	0.4963 ppm	0.4750 ppm	0.4782 ppm	0.4818 ppm	0.4904 ppm	0.5015 ppm	0.4784 ppm
Concentration per Run 3	0.4961 ppm	0.4794 ppm	0.4756 ppm	0.4832 ppm	0.4836 ppm	0.4965 ppm	0.4752 ppm
Recovery Percentage 1	99.510 %	95.048 %	95.364 %	96.638 %	97.580 %	99.776 %	95.623 %
Concentration RSD	0.5 %	0.8 %	0.3 %	0.3 %	0.8 %	0.5 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4877 ppm	0.4974 ppm	0.4761 ppm	0.4787 ppm	0.4917 ppm	5.0326 ppm	0.4843 ppm
Concentration per Run 1	0.4871 ppm	0.4960 ppm	0.4776 ppm	0.4817 ppm	0.4957 ppm	5.0473 ppm	0.4857 ppm
Concentration per Run 2	0.4915 ppm	0.4989 ppm	0.4738 ppm	0.4769 ppm	0.4900 ppm	5.0351 ppm	0.4827 ppm
Concentration per Run 3	0.4846 ppm	0.4973 ppm	0.4769 ppm	0.4774 ppm	0.4896 ppm	5.0154 ppm	0.4844 ppm
Recovery Percentage 1	97.544 %	99.484 %	95.216 %	95.736 %	98.348 %	100.653 %	96.855 %
Concentration RSD	0.7 %	0.3 %	0.4 %	0.6 %	0.7 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4765 ppm	0.4773 ppm	0.4796 ppm	9.7926 ppm	0.4945 ppm	0.4873 ppm	0.4945 ppm
Concentration per Run 1	0.4767 ppm	0.4789 ppm	0.4770 ppm	9.8087 ppm	0.4958 ppm	0.4877 ppm	0.5031 ppm
Concentration per Run 2	0.4769 ppm	0.4791 ppm	0.4802 ppm	9.8465 ppm	0.4931 ppm	0.4887 ppm	0.4965 ppm
Concentration per Run 3	0.4758 ppm	0.4739 ppm	0.4817 ppm	9.7227 ppm	0.4946 ppm	0.4855 ppm	0.4839 ppm
Recovery Percentage 1	95.295 %	95.460 %	95.925 %	97.926 %	98.904 %	97.458 %	98.904 %
Concentration RSD	0.1 %	0.6 %	0.5 %	0.6 %	0.3 %	0.3 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4880 ppm	5.1768 ppm	0.4776 ppm	0.4677 ppm	0.4867 ppm	0.4882 ppm	0.4737 ppm
Concentration per Run 1	0.4908 ppm	5.1883 ppm	0.4796 ppm	0.4694 ppm	0.4883 ppm	0.4860 ppm	0.4749 ppm
Concentration per Run 2	0.4910 ppm	5.1756 ppm	0.4769 ppm	0.4702 ppm	0.4855 ppm	0.4899 ppm	0.4729 ppm
Concentration per Run 3	0.4822 ppm	5.1667 ppm	0.4765 ppm	0.4633 ppm	0.4863 ppm	0.4886 ppm	0.4734 ppm
Recovery Percentage 1	97.600 %	98.606 %	95.526 %	93.531 %	97.336 %	97.636 %	94.748 %
Concentration RSD	1.0 %	0.2 %	0.4 %	0.8 %	0.3 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4926 ppm	105.5236 %	105.2175 %	104.2727 %	102.7426 %	104.2023 %	104.2886 %
Concentration per Run 1	0.4941 ppm	105.9148 %	105.5087 %	104.2614 %	103.1319 %	104.8352 %	104.2562 %
Concentration per Run 2	0.4912 ppm	105.5666 %	104.7247 %	103.9281 %	102.5602 %	103.7006 %	104.0123 %
Concentration per Run 3	0.4925 ppm	105.0893 %	105.4192 %	104.6286 %	102.5355 %	104.0710 %	104.5972 %
Recovery Percentage 1	98.526 %						
Concentration RSD	0.3 %	0.4 %	0.4 %	0.3 %	0.3 %	0.6 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 2:01:18 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0034 ppm	0.0021 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0034 ppm
Concentration per Run 1	-0.0002 ppm	0.0007 ppm	0.0038 ppm	-0.0023 ppm	-0.0001 ppm	0.0000 ppm	-0.0065 ppm
Concentration per Run 2	0.0005 ppm	-0.0112 ppm	0.0007 ppm	0.0015 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0007 ppm	0.0002 ppm	0.0018 ppm	0.0027 ppm	-0.0001 ppm	0.0001 ppm	-0.0039 ppm
Recovery Percentage 1	4.554 %	-3.402 %	41.975 %	2.069 %	-1.156 %	0.716 %	-3.427 %
Concentration RSD	132.4 %	197.7 %	74.1 %	423.2 %	26.7 %	155.1 %	96.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0001 ppm	0.0027 ppm	0.0206 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	-0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0025 ppm	0.0132 ppm	0.0020 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0026 ppm	0.0033 ppm	0.0013 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0031 ppm	0.0454 ppm	0.0015 ppm
Recovery Percentage 1	1.154 %	-1.262 %	1.477 %	-0.873 %	5.458 %	0.826 %	31.874 %
Concentration RSD	98.7 %	201.5 %	109.2 %	295.0 %	11.2 %	106.7 %	23.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0004 ppm	-0.0001 ppm	0.0020 ppm	0.0114 ppm	0.0007 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	-0.0015 ppm	-0.0001 ppm	0.0020 ppm	0.0165 ppm	0.0002 ppm	-0.0002 ppm	0.0054 ppm
Concentration per Run 2	0.0018 ppm	0.0000 ppm	0.0024 ppm	0.0086 ppm	0.0008 ppm	0.0004 ppm	-0.0059 ppm
Concentration per Run 3	0.0009 ppm	-0.0003 ppm	0.0015 ppm	0.0090 ppm	0.0011 ppm	-0.0006 ppm	0.0020 ppm
Recovery Percentage 1	0.409 %	-1.062 %	3.967 %	0.569 %	2.736 %	-1.170 %	1.016 %
Concentration RSD	417.1 %	139.8 %	21.0 %	39.2 %	62.1 %	452.2 %	1,136.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	-0.0036 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	-0.0024 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 2	0.0042 ppm	-0.0044 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0007 ppm	-0.0001 ppm
Concentration per Run 3	0.0018 ppm	-0.0040 ppm	0.0010 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	-0.0002 ppm
Recovery Percentage 1	15.234 %	-0.715 %	0.750 %	0.189 %	3.192 %	1.917 %	0.371 %
Concentration RSD	183.3 %	30.1 %	141.9 %	183.1 %	46.6 %	250.2 %	802.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0014 ppm	104.5853 %	103.3611 %	103.3420 %	103.5522 %	103.2276 %	104.0235 %
Concentration per Run 1	-0.0016 ppm	109.2550 %	103.2387 %	102.9411 %	108.4400 %	103.1723 %	103.8465 %
Concentration per Run 2	-0.0014 ppm	101.8783 %	104.1941 %	105.0558 %	100.0529 %	103.5384 %	105.5140 %
Concentration per Run 3	-0.0013 ppm	102.6226 %	102.6506 %	102.0292 %	102.1636 %	102.9721 %	102.7099 %
Recovery Percentage 1	-28.935 %						
Concentration RSD	11.9 %	3.9 %	0.8 %	1.5 %	4.2 %	0.3 %	1.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-10 WG1973830
Analysis started at: 9/24/2024 2:07:42 PM
Rack 2
Vial 22
Comment EB

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0006 ppm	0.0015 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0163 ppm
Concentration per Run 1	0.0006 ppm	-0.0019 ppm	0.0023 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0163 ppm
Concentration per Run 2	0.0001 ppm	0.0047 ppm	0.0023 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0142 ppm
Concentration per Run 3	0.0000 ppm	-0.0045 ppm	0.0000 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0182 ppm
Concentration RSD	121.3 %	838.2 %	84.1 %	7.9 %	127.6 %	84.1 %	12.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0004 ppm	-0.0007 ppm	0.0001 ppm	0.0028 ppm	-0.0213 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	-0.0009 ppm	0.0000 ppm	0.0052 ppm	-0.0499 ppm	0.0020 ppm
Concentration per Run 2	0.0001 ppm	-0.0010 ppm	-0.0004 ppm	0.0002 ppm	0.0008 ppm	-0.0198 ppm	0.0002 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	-0.0008 ppm	0.0000 ppm	0.0023 ppm	0.0057 ppm	0.0010 ppm
Concentration RSD	621.6 %	137.4 %	37.3 %	269.5 %	80.4 %	130.6 %	82.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0149 ppm	-0.0006 ppm	-0.0002 ppm	-0.0023 ppm
Concentration per Run 1	0.0010 ppm	-0.0002 ppm	-0.0002 ppm	0.0206 ppm	-0.0006 ppm	-0.0008 ppm	-0.0006 ppm
Concentration per Run 2	0.0022 ppm	0.0002 ppm	0.0000 ppm	0.0097 ppm	0.0000 ppm	0.0000 ppm	-0.0051 ppm
Concentration per Run 3	-0.0011 ppm	-0.0002 ppm	0.0002 ppm	0.0143 ppm	-0.0011 ppm	0.0001 ppm	-0.0013 ppm
Concentration RSD	231.1 %	399.3 %	946.7 %	37.0 %	100.0 %	207.5 %	104.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.0012 ppm	-0.0027 ppm	0.0003 ppm	0.0003 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.0010 ppm	0.0004 ppm	-0.0024 ppm	0.0005 ppm	0.0005 ppm	0.0009 ppm	-0.0003 ppm
Concentration per Run 2	0.0022 ppm	0.0004 ppm	-0.0029 ppm	0.0003 ppm	0.0002 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	-0.0007 ppm	0.0029 ppm	-0.0027 ppm	0.0001 ppm	0.0002 ppm	-0.0005 ppm	-0.0003 ppm
Concentration RSD	963.4 %	119.8 %	8.6 %	67.7 %	51.4 %	7,923.9 %	44.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	105.5787 %	103.9237 %	105.2557 %	104.7348 %	103.1828 %	105.1345 %
Concentration per Run 1	-0.0007 ppm	105.7571 %	103.7171 %	104.9815 %	105.0942 %	102.9820 %	104.8264 %
Concentration per Run 2	-0.0006 ppm	105.6069 %	105.2273 %	105.4719 %	104.7787 %	104.1655 %	105.1500 %
Concentration per Run 3	-0.0009 ppm	105.3720 %	102.8267 %	105.3138 %	104.3315 %	102.4010 %	105.4271 %
Concentration RSD	18.1 %	0.2 %	1.2 %	0.2 %	0.4 %	0.9 %	0.3 %

ICP DataTrace 9

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LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-01 WG1973830
Analysis started at: 9/24/2024 2:11:43 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0089 ppm	-0.0006 ppm	0.0212 ppm	0.0189 ppm	0.0000 ppm	21.5882 ppm
Concentration per Run 1	0.0003 ppm	0.0123 ppm	0.0014 ppm	0.0222 ppm	0.0189 ppm	0.0000 ppm	21.5797 ppm
Concentration per Run 2	0.0005 ppm	-0.0006 ppm	-0.0030 ppm	0.0205 ppm	0.0190 ppm	0.0000 ppm	21.5685 ppm
Concentration per Run 3	0.0004 ppm	0.0149 ppm	-0.0002 ppm	0.0211 ppm	0.0189 ppm	0.0000 ppm	21.6165 ppm
Concentration RSD	31.4 %	93.3 %	393.7 %	4.0 %	0.2 %	684.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0006 ppm	0.0227 ppm	1.8602 ppm	0.0013 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0233 ppm	1.8694 ppm	0.0032 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0007 ppm	0.0008 ppm	0.0209 ppm	1.8817 ppm	0.0005 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	-0.0001 ppm	0.0007 ppm	0.0238 ppm	1.8296 ppm	0.0002 ppm
Concentration RSD	98.7 %	130.0 %	150.4 %	23.9 %	6.8 %	1.5 %	124.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.0467 ppm	0.0017 ppm	0.0006 ppm	12.5224 ppm	0.0009 ppm	0.0004 ppm	0.0018 ppm
Concentration per Run 1	6.0718 ppm	0.0018 ppm	0.0007 ppm	12.4875 ppm	0.0013 ppm	0.0002 ppm	0.0044 ppm
Concentration per Run 2	6.0370 ppm	0.0015 ppm	0.0005 ppm	12.5426 ppm	0.0014 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 3	6.0313 ppm	0.0018 ppm	0.0006 ppm	12.5373 ppm	0.0000 ppm	0.0006 ppm	0.0005 ppm
Concentration RSD	0.4 %	12.7 %	19.3 %	0.2 %	87.0 %	57.7 %	123.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	3.7644 ppm	-0.0024 ppm	0.0828 ppm	0.0007 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0015 ppm	3.7835 ppm	-0.0030 ppm	0.0827 ppm	0.0007 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	3.7688 ppm	-0.0017 ppm	0.0826 ppm	0.0008 ppm	0.0023 ppm	-0.0001 ppm
Concentration per Run 3	-0.0061 ppm	3.7408 ppm	-0.0026 ppm	0.0830 ppm	0.0008 ppm	-0.0010 ppm	-0.0001 ppm
Concentration RSD	125.7 %	0.6 %	27.8 %	0.2 %	10.5 %	294.4 %	76.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	103.9823 %	102.9754 %	101.7358 %	102.8618 %	102.6981 %	102.6200 %
Concentration per Run 1	-0.0004 ppm	103.0359 %	102.6402 %	102.0352 %	102.4869 %	102.1666 %	103.0157 %
Concentration per Run 2	-0.0006 ppm	104.1579 %	103.9143 %	100.8779 %	102.8742 %	103.7280 %	101.9462 %
Concentration per Run 3	0.0000 ppm	104.7529 %	102.3718 %	102.2944 %	103.2241 %	102.1998 %	102.8979 %
Concentration RSD	77.0 %	0.8 %	0.8 %	0.7 %	0.4 %	0.9 %	0.6 %

ICP DataTrace 9

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LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-02 WG1973830
Analysis started at: 9/24/2024 2:15:38 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	1.1214 ppm	0.0000 ppm	0.0920 ppm	0.0192 ppm	0.0001 ppm	17.9492 ppm
Concentration per Run 1	0.0001 ppm	1.1192 ppm	-0.0013 ppm	0.0921 ppm	0.0190 ppm	0.0001 ppm	18.0393 ppm
Concentration per Run 2	0.0003 ppm	1.1336 ppm	-0.0001 ppm	0.0920 ppm	0.0192 ppm	0.0001 ppm	17.8661 ppm
Concentration per Run 3	0.0005 ppm	1.1114 ppm	0.0015 ppm	0.0918 ppm	0.0193 ppm	0.0002 ppm	17.9421 ppm
Concentration RSD	62.1 %	1.0 %	3,852.3 %	0.2 %	0.9 %	34.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0024 ppm	0.0024 ppm	1.5347 ppm	1.5331 ppm	0.0042 ppm
Concentration per Run 1	-0.0002 ppm	0.0010 ppm	0.0026 ppm	0.0022 ppm	1.5394 ppm	1.5423 ppm	0.0042 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0023 ppm	0.0026 ppm	1.5348 ppm	1.5287 ppm	0.0045 ppm
Concentration per Run 3	0.0003 ppm	0.0010 ppm	0.0025 ppm	0.0025 ppm	1.5298 ppm	1.5284 ppm	0.0040 ppm
Concentration RSD	3,491.6 %	71.3 %	6.5 %	7.3 %	0.3 %	0.5 %	6.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.8577 ppm	0.0145 ppm	0.0004 ppm	13.3818 ppm	0.0020 ppm	0.0010 ppm	-0.0026 ppm
Concentration per Run 1	8.8856 ppm	0.0149 ppm	0.0006 ppm	13.3652 ppm	0.0023 ppm	0.0012 ppm	-0.0003 ppm
Concentration per Run 2	8.8639 ppm	0.0143 ppm	0.0003 ppm	13.3817 ppm	0.0025 ppm	0.0020 ppm	-0.0076 ppm
Concentration per Run 3	8.8235 ppm	0.0141 ppm	0.0002 ppm	13.3985 ppm	0.0011 ppm	-0.0003 ppm	0.0000 ppm
Concentration RSD	0.4 %	2.9 %	57.7 %	0.1 %	38.1 %	119.1 %	164.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	10.7667 ppm	-0.0022 ppm	0.0870 ppm	0.0340 ppm	0.0014 ppm	0.0053 ppm
Concentration per Run 1	0.0045 ppm	10.8035 ppm	-0.0021 ppm	0.0874 ppm	0.0339 ppm	0.0025 ppm	0.0055 ppm
Concentration per Run 2	-0.0013 ppm	10.8008 ppm	-0.0025 ppm	0.0868 ppm	0.0338 ppm	0.0013 ppm	0.0051 ppm
Concentration per Run 3	-0.0003 ppm	10.6957 ppm	-0.0020 ppm	0.0868 ppm	0.0342 ppm	0.0004 ppm	0.0054 ppm
Concentration RSD	321.4 %	0.6 %	13.4 %	0.4 %	0.5 %	78.9 %	4.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0041 ppm	104.5364 %	103.9904 %	102.4240 %	103.2824 %	103.5688 %	104.1267 %
Concentration per Run 1	0.0039 ppm	104.9462 %	103.8415 %	102.9217 %	103.9757 %	103.4830 %	104.7372 %
Concentration per Run 2	0.0040 ppm	104.0827 %	104.6749 %	101.8609 %	102.7627 %	104.5309 %	103.8379 %
Concentration per Run 3	0.0043 ppm	104.5804 %	103.4548 %	102.4895 %	103.1087 %	102.6925 %	103.8049 %
Concentration RSD	5.5 %	0.4 %	0.6 %	0.5 %	0.6 %	0.9 %	0.5 %

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LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-03 WG1973830
Analysis started at: 9/24/2024 2:19:33 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0313 ppm	0.0010 ppm	0.0170 ppm	0.0244 ppm	0.0000 ppm	10.7126 ppm
Concentration per Run 1	-0.0001 ppm	0.0298 ppm	0.0014 ppm	0.0160 ppm	0.0243 ppm	0.0000 ppm	10.6632 ppm
Concentration per Run 2	0.0007 ppm	0.0373 ppm	0.0009 ppm	0.0185 ppm	0.0246 ppm	-0.0001 ppm	10.7400 ppm
Concentration per Run 3	0.0002 ppm	0.0267 ppm	0.0007 ppm	0.0165 ppm	0.0244 ppm	0.0000 ppm	10.7347 ppm
Concentration RSD	155.1 %	17.4 %	35.2 %	7.7 %	0.6 %	53.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0009 ppm	0.0006 ppm	0.0486 ppm	1.0660 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0001 ppm	0.0486 ppm	1.0558 ppm	0.0031 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0009 ppm	0.0475 ppm	1.0701 ppm	0.0029 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0013 ppm	0.0009 ppm	0.0496 ppm	1.0721 ppm	0.0013 ppm
Concentration RSD	57.1 %	198.4 %	32.5 %	66.5 %	2.2 %	0.8 %	41.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8606 ppm	0.0010 ppm	-0.0001 ppm	13.4756 ppm	0.0002 ppm	-0.0001 ppm	-0.0009 ppm
Concentration per Run 1	4.8769 ppm	0.0011 ppm	0.0003 ppm	13.3910 ppm	-0.0003 ppm	0.0000 ppm	-0.0031 ppm
Concentration per Run 2	4.8839 ppm	0.0011 ppm	-0.0001 ppm	13.4888 ppm	0.0006 ppm	0.0009 ppm	-0.0004 ppm
Concentration per Run 3	4.8209 ppm	0.0008 ppm	-0.0003 ppm	13.5470 ppm	0.0003 ppm	-0.0011 ppm	0.0007 ppm
Concentration RSD	0.7 %	15.5 %	487.6 %	0.6 %	223.3 %	1,615.8 %	204.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	7.2821 ppm	-0.0021 ppm	0.0521 ppm	0.0021 ppm	0.0004 ppm	-0.0002 ppm
Concentration per Run 1	-0.0013 ppm	7.3083 ppm	-0.0015 ppm	0.0521 ppm	0.0021 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run 2	-0.0029 ppm	7.2891 ppm	-0.0022 ppm	0.0522 ppm	0.0023 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0011 ppm	7.2491 ppm	-0.0025 ppm	0.0521 ppm	0.0020 ppm	0.0000 ppm	-0.0001 ppm
Concentration RSD	195.9 %	0.4 %	24.3 %	0.1 %	6.8 %	97.8 %	34.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	105.2482 %	103.8692 %	102.5387 %	104.0405 %	103.2927 %	103.3522 %
Concentration per Run 1	-0.0001 ppm	106.1818 %	104.5359 %	102.4297 %	105.4472 %	104.0266 %	103.2148 %
Concentration per Run 2	0.0003 ppm	104.5435 %	103.2901 %	102.9325 %	102.8752 %	102.5321 %	103.6877 %
Concentration per Run 3	-0.0002 ppm	105.0193 %	103.7816 %	102.2538 %	103.7991 %	103.3195 %	103.1540 %
Concentration RSD	9,566.9 %	0.8 %	0.6 %	0.3 %	1.3 %	0.7 %	0.3 %

ICP DataTrace 9

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LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-04 WG1973830
Analysis started at: 9/24/2024 2:23:27 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0013 ppm	0.0023 ppm	0.0197 ppm	0.0972 ppm	0.0000 ppm	100.6030 ppm
Concentration per Run 1	0.0002 ppm	-0.0057 ppm	0.0060 ppm	0.0210 ppm	0.0970 ppm	0.0000 ppm	100.4011 ppm
Concentration per Run 2	0.0004 ppm	0.0007 ppm	0.0022 ppm	0.0204 ppm	0.0971 ppm	0.0000 ppm	100.7160 ppm
Concentration per Run 3	0.0006 ppm	0.0089 ppm	-0.0013 ppm	0.0177 ppm	0.0976 ppm	0.0000 ppm	100.6918 ppm
Concentration RSD	47.2 %	558.4 %	158.8 %	9.0 %	0.4 %	48.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0018 ppm	0.0300 ppm	3.0225 ppm	0.0010 ppm
Concentration per Run 1	-0.0004 ppm	-0.0002 ppm	0.0004 ppm	0.0020 ppm	0.0309 ppm	3.0216 ppm	0.0023 ppm
Concentration per Run 2	-0.0007 ppm	0.0001 ppm	-0.0005 ppm	0.0013 ppm	0.0306 ppm	3.0150 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	-0.0005 ppm	0.0001 ppm	0.0021 ppm	0.0286 ppm	3.0307 ppm	0.0008 ppm
Concentration RSD	46.9 %	149.5 %	6,719.1 %	22.9 %	4.1 %	0.3 %	123.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.1958 ppm	0.0016 ppm	0.0002 ppm	4.2781 ppm	0.0000 ppm	-0.0011 ppm	-0.0008 ppm
Concentration per Run 1	15.2573 ppm	0.0017 ppm	-0.0002 ppm	4.2621 ppm	0.0002 ppm	-0.0015 ppm	-0.0016 ppm
Concentration per Run 2	15.2125 ppm	0.0015 ppm	0.0001 ppm	4.2717 ppm	-0.0006 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 3	15.1176 ppm	0.0016 ppm	0.0007 ppm	4.3007 ppm	0.0004 ppm	-0.0021 ppm	-0.0030 ppm
Concentration RSD	0.5 %	7.9 %	211.5 %	0.5 %	13,242.3 %	100.2 %	351.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	5.4373 ppm	-0.0026 ppm	0.2743 ppm	0.0009 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 1	-0.0019 ppm	5.4633 ppm	-0.0039 ppm	0.2739 ppm	0.0012 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 2	-0.0005 ppm	5.4525 ppm	-0.0011 ppm	0.2732 ppm	0.0006 ppm	0.0029 ppm	0.0001 ppm
Concentration per Run 3	-0.0020 ppm	5.3961 ppm	-0.0028 ppm	0.2757 ppm	0.0009 ppm	0.0009 ppm	-0.0001 ppm
Concentration RSD	57.9 %	0.7 %	52.6 %	0.5 %	31.8 %	103.5 %	163.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0010 ppm	102.9372 %	102.6578 %	97.9607 %	101.7957 %	102.3074 %	100.9892 %
Concentration per Run 1	0.0010 ppm	102.0476 %	102.8509 %	97.9983 %	101.4131 %	102.1038 %	101.1593 %
Concentration per Run 2	0.0011 ppm	103.1862 %	102.8228 %	97.3944 %	102.2875 %	102.7710 %	100.5003 %
Concentration per Run 3	0.0008 ppm	103.5778 %	102.2996 %	98.4895 %	101.6864 %	102.0474 %	101.3078 %
Concentration RSD	14.8 %	0.8 %	0.3 %	0.6 %	0.4 %	0.4 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-07 WG1973830
Analysis started at: 9/24/2024 2:27:22 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0248 ppm	-0.0005 ppm	0.0117 ppm	0.0110 ppm	0.0000 ppm	11.8504 ppm
Concentration per Run 1	0.0006 ppm	0.0203 ppm	-0.0005 ppm	0.0127 ppm	0.0112 ppm	0.0000 ppm	11.8206 ppm
Concentration per Run 2	0.0000 ppm	0.0237 ppm	0.0000 ppm	0.0114 ppm	0.0107 ppm	0.0000 ppm	11.8836 ppm
Concentration per Run 3	0.0000 ppm	0.0305 ppm	-0.0009 ppm	0.0109 ppm	0.0110 ppm	0.0000 ppm	11.8471 ppm
Concentration RSD	159.6 %	21.0 %	96.4 %	8.3 %	2.3 %	297.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0014 ppm	0.0003 ppm	0.0445 ppm	1.0628 ppm	0.0033 ppm
Concentration per Run 1	-0.0001 ppm	0.0004 ppm	0.0014 ppm	0.0002 ppm	0.0453 ppm	1.0610 ppm	0.0024 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0015 ppm	0.0002 ppm	0.0459 ppm	1.0569 ppm	0.0032 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	0.0013 ppm	0.0005 ppm	0.0422 ppm	1.0706 ppm	0.0042 ppm
Concentration RSD	29.7 %	5,140.5 %	5.3 %	55.3 %	4.5 %	0.7 %	27.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.6096 ppm	0.0114 ppm	0.0001 ppm	15.2347 ppm	0.0007 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 1	5.6381 ppm	0.0116 ppm	0.0001 ppm	15.1878 ppm	-0.0001 ppm	-0.0001 ppm	-0.0045 ppm
Concentration per Run 2	5.5992 ppm	0.0110 ppm	0.0000 ppm	15.3010 ppm	0.0018 ppm	-0.0004 ppm	0.0027 ppm
Concentration per Run 3	5.5916 ppm	0.0115 ppm	0.0002 ppm	15.2152 ppm	0.0004 ppm	0.0002 ppm	0.0049 ppm
Concentration RSD	0.4 %	3.1 %	61.1 %	0.4 %	143.7 %	461.8 %	466.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	6.7681 ppm	-0.0019 ppm	0.0573 ppm	0.0009 ppm	0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0007 ppm	6.7812 ppm	-0.0015 ppm	0.0572 ppm	0.0010 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 2	0.0003 ppm	6.7669 ppm	-0.0018 ppm	0.0573 ppm	0.0008 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 3	0.0002 ppm	6.7563 ppm	-0.0024 ppm	0.0574 ppm	0.0008 ppm	0.0003 ppm	0.0002 ppm
Concentration RSD	69.8 %	0.2 %	22.2 %	0.1 %	10.7 %	54.9 %	123.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	104.6829 %	103.8291 %	102.2070 %	103.4274 %	103.4114 %	103.5000 %
Concentration per Run 1	-0.0006 ppm	104.3451 %	104.5084 %	102.0649 %	103.5565 %	103.9304 %	104.0499 %
Concentration per Run 2	0.0001 ppm	104.9222 %	102.9827 %	102.1924 %	103.3912 %	103.0745 %	103.0979 %
Concentration per Run 3	0.0000 ppm	104.7814 %	103.9962 %	102.3637 %	103.3347 %	103.2292 %	103.3521 %
Concentration RSD	208.6 %	0.3 %	0.7 %	0.1 %	0.1 %	0.4 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453342-08 WG1973830
Analysis started at: 9/24/2024 2:31:17 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0186 ppm	0.0005 ppm	0.0825 ppm	0.0468 ppm	0.0000 ppm	62.6788 ppm
Concentration per Run 1	0.0001 ppm	0.0214 ppm	0.0019 ppm	0.0843 ppm	0.0470 ppm	0.0000 ppm	62.5112 ppm
Concentration per Run 2	-0.0002 ppm	0.0087 ppm	-0.0003 ppm	0.0826 ppm	0.0467 ppm	0.0000 ppm	62.8984 ppm
Concentration per Run 3	-0.0003 ppm	0.0256 ppm	-0.0001 ppm	0.0806 ppm	0.0465 ppm	0.0000 ppm	62.6269 ppm
Concentration RSD	200.9 %	47.4 %	254.3 %	2.2 %	0.5 %	232.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0023 ppm	0.0341 ppm	4.7147 ppm	0.0010 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0023 ppm	0.0348 ppm	4.7330 ppm	0.0003 ppm
Concentration per Run 2	-0.0003 ppm	-0.0007 ppm	-0.0003 ppm	0.0024 ppm	0.0319 ppm	4.7173 ppm	0.0012 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	-0.0001 ppm	0.0023 ppm	0.0356 ppm	4.6937 ppm	0.0013 ppm
Concentration RSD	44.1 %	1,196.6 %	145.2 %	1.7 %	5.6 %	0.4 %	55.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.9955 ppm	0.0837 ppm	0.0010 ppm	8.9261 ppm	0.0010 ppm	-0.0003 ppm	0.0011 ppm
Concentration per Run 1	10.9867 ppm	0.0836 ppm	0.0013 ppm	8.9078 ppm	0.0022 ppm	-0.0003 ppm	0.0023 ppm
Concentration per Run 2	11.0559 ppm	0.0836 ppm	0.0013 ppm	8.9486 ppm	0.0004 ppm	-0.0007 ppm	-0.0015 ppm
Concentration per Run 3	10.9438 ppm	0.0839 ppm	0.0005 ppm	8.9219 ppm	0.0005 ppm	0.0001 ppm	0.0025 ppm
Concentration RSD	0.5 %	0.2 %	41.1 %	0.2 %	99.5 %	124.0 %	206.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	4.1428 ppm	-0.0025 ppm	0.3021 ppm	0.0013 ppm	0.0015 ppm	0.0002 ppm
Concentration per Run 1	-0.0041 ppm	4.1542 ppm	-0.0023 ppm	0.3021 ppm	0.0014 ppm	0.0009 ppm	-0.0002 ppm
Concentration per Run 2	-0.0017 ppm	4.1357 ppm	-0.0020 ppm	0.3028 ppm	0.0011 ppm	0.0014 ppm	0.0004 ppm
Concentration per Run 3	0.0021 ppm	4.1384 ppm	-0.0033 ppm	0.3015 ppm	0.0015 ppm	0.0023 ppm	0.0003 ppm
Concentration RSD	248.1 %	0.2 %	26.9 %	0.2 %	13.3 %	46.0 %	189.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	103.6397 %	104.0584 %	100.3949 %	102.2468 %	103.9506 %	102.0952 %
Concentration per Run 1	0.0002 ppm	102.5681 %	103.8499 %	101.0106 %	101.6768 %	103.4743 %	102.7859 %
Concentration per Run 2	0.0002 ppm	104.1100 %	103.9275 %	100.2658 %	102.7177 %	104.2482 %	101.8835 %
Concentration per Run 3	-0.0001 ppm	104.2410 %	104.3976 %	99.9084 %	102.3459 %	104.1294 %	101.6162 %
Concentration RSD	141.4 %	0.9 %	0.3 %	0.6 %	0.5 %	0.4 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 2:35:12 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5014 ppm	0.4771 ppm	0.4762 ppm	0.4854 ppm	0.4851 ppm	0.4980 ppm	0.4815 ppm
Concentration per Run 1	0.5007 ppm	0.4830 ppm	0.4743 ppm	0.4803 ppm	0.4840 ppm	0.4965 ppm	0.4832 ppm
Concentration per Run 2	0.5013 ppm	0.4751 ppm	0.4738 ppm	0.4876 ppm	0.4851 ppm	0.4987 ppm	0.4813 ppm
Concentration per Run 3	0.5021 ppm	0.4732 ppm	0.4804 ppm	0.4884 ppm	0.4862 ppm	0.4988 ppm	0.4799 ppm
Recovery Percentage 1	100.278 %	95.421 %	95.231 %	97.088 %	97.018 %	99.605 %	96.296 %
Concentration RSD	0.1 %	1.1 %	0.8 %	0.9 %	0.2 %	0.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4889 ppm	0.5006 ppm	0.4787 ppm	0.4836 ppm	0.4913 ppm	5.0208 ppm	0.4829 ppm
Concentration per Run 1	0.4863 ppm	0.4991 ppm	0.4776 ppm	0.4821 ppm	0.4916 ppm	5.0316 ppm	0.4842 ppm
Concentration per Run 2	0.4861 ppm	0.4985 ppm	0.4777 ppm	0.4817 ppm	0.4913 ppm	5.0151 ppm	0.4822 ppm
Concentration per Run 3	0.4942 ppm	0.5042 ppm	0.4808 ppm	0.4868 ppm	0.4909 ppm	5.0156 ppm	0.4824 ppm
Recovery Percentage 1	97.776 %	100.124 %	95.741 %	96.710 %	98.252 %	100.416 %	96.588 %
Concentration RSD	0.9 %	0.6 %	0.4 %	0.6 %	0.1 %	0.2 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4837 ppm	0.4757 ppm	0.4820 ppm	9.7555 ppm	0.4985 ppm	0.4893 ppm	0.4951 ppm
Concentration per Run 1	0.4826 ppm	0.4752 ppm	0.4765 ppm	9.7632 ppm	0.4963 ppm	0.4872 ppm	0.4932 ppm
Concentration per Run 2	0.4834 ppm	0.4760 ppm	0.4818 ppm	9.7718 ppm	0.4971 ppm	0.4907 ppm	0.4978 ppm
Concentration per Run 3	0.4853 ppm	0.4758 ppm	0.4876 ppm	9.7315 ppm	0.5022 ppm	0.4900 ppm	0.4944 ppm
Recovery Percentage 1	96.748 %	95.133 %	96.395 %	97.555 %	99.702 %	97.865 %	99.025 %
Concentration RSD	0.3 %	0.1 %	1.2 %	0.2 %	0.6 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4867 ppm	5.2209 ppm	0.4724 ppm	0.4676 ppm	0.4891 ppm	0.4923 ppm	0.4746 ppm
Concentration per Run 1	0.4896 ppm	5.1704 ppm	0.4701 ppm	0.4672 ppm	0.4899 ppm	0.4930 ppm	0.4741 ppm
Concentration per Run 2	0.4820 ppm	5.2168 ppm	0.4731 ppm	0.4676 ppm	0.4888 ppm	0.4900 ppm	0.4740 ppm
Concentration per Run 3	0.4884 ppm	5.2756 ppm	0.4741 ppm	0.4678 ppm	0.4886 ppm	0.4941 ppm	0.4758 ppm
Recovery Percentage 1	97.333 %	99.446 %	94.482 %	93.510 %	97.826 %	98.469 %	94.929 %
Concentration RSD	0.8 %	1.0 %	0.4 %	0.1 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4947 ppm	105.9179 %	106.1373 %	103.5314 %	103.3006 %	105.3105 %	103.4049 %
Concentration per Run 1	0.4938 ppm	105.5353 %	106.6120 %	104.1164 %	102.7591 %	105.8945 %	103.8671 %
Concentration per Run 2	0.4940 ppm	106.3484 %	104.9235 %	103.4792 %	103.7620 %	103.9977 %	103.4896 %
Concentration per Run 3	0.4963 ppm	105.8700 %	106.8764 %	102.9987 %	103.3808 %	106.0391 %	102.8578 %
Recovery Percentage 1	98.938 %						
Concentration RSD	0.3 %	0.4 %	1.0 %	0.5 %	0.5 %	1.1 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 2:39:06 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0136 ppm	0.0010 ppm	0.0011 ppm	-0.0002 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0005 ppm	0.0087 ppm	0.0006 ppm	0.0014 ppm	-0.0002 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 2	0.0008 ppm	0.0226 ppm	0.0028 ppm	0.0016 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0095 ppm	-0.0005 ppm	0.0003 ppm	-0.0002 ppm	0.0001 ppm	0.0019 ppm
Recovery Percentage 1	7.317 %	13.603 %	19.754 %	3.696 %	-2.008 %	1.243 %	1.122 %
Concentration RSD	43.6 %	57.4 %	170.3 %	65.4 %	3.3 %	35.4 %	81.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0030 ppm	-0.0162 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0023 ppm	-0.0329 ppm	0.0011 ppm
Concentration per Run 2	0.0002 ppm	-0.0005 ppm	0.0002 ppm	-0.0005 ppm	0.0020 ppm	-0.0008 ppm	0.0007 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0047 ppm	-0.0148 ppm	-0.0018 ppm
Recovery Percentage 1	2.336 %	-0.620 %	-0.327 %	-1.966 %	5.998 %	-0.647 %	0.052 %
Concentration RSD	95.2 %	243.4 %	536.1 %	119.0 %	49.6 %	99.5 %	60,774.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0016 ppm	-0.0001 ppm	0.0010 ppm	0.0045 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 1	-0.0017 ppm	-0.0003 ppm	0.0011 ppm	0.0087 ppm	0.0001 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 2	-0.0034 ppm	0.0000 ppm	0.0013 ppm	0.0024 ppm	-0.0001 ppm	-0.0003 ppm	0.0023 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0006 ppm	0.0025 ppm	0.0002 ppm	0.0001 ppm	0.0046 ppm
Recovery Percentage 1	-1.590 %	-1.039 %	2.007 %	0.227 %	0.316 %	-0.495 %	4.164 %
Concentration RSD	119.1 %	186.6 %	38.3 %	80.3 %	230.9 %	526.9 %	125.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	-0.0025 ppm	-0.0010 ppm	0.0001 ppm	0.0005 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	-0.0028 ppm	-0.0020 ppm	-0.0003 ppm	-0.0001 ppm	0.0005 ppm	-0.0006 ppm	-0.0005 ppm
Concentration per Run 2	-0.0059 ppm	0.0000 ppm	-0.0018 ppm	0.0002 ppm	0.0003 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 3	0.0044 ppm	-0.0055 ppm	-0.0008 ppm	0.0001 ppm	0.0007 ppm	0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	-14.132 %	-0.501 %	-1.938 %	0.979 %	5.119 %	-1.989 %	-1.478 %
Concentration RSD	374.3 %	111.4 %	83.4 %	165.7 %	35.7 %	178.4 %	274.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	105.5055 %	103.2986 %	103.7439 %	104.5069 %	103.9431 %	104.3308 %
Concentration per Run 1	-0.0018 ppm	105.5266 %	103.6333 %	103.8748 %	104.3699 %	104.0692 %	104.6428 %
Concentration per Run 2	-0.0016 ppm	105.3402 %	102.9893 %	104.5061 %	104.5885 %	103.8559 %	105.2233 %
Concentration per Run 3	-0.0016 ppm	105.6496 %	103.2733 %	102.8509 %	104.5623 %	103.9043 %	103.1263 %
Recovery Percentage 1	-32.974 %						
Concentration RSD	8.8 %	0.1 %	0.3 %	0.8 %	0.1 %	0.1 %	1.0 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-1 WG1974066
Analysis started at: 9/24/2024 3:03:19 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0048 ppm	0.0007 ppm	0.0011 ppm	-0.0002 ppm	0.0000 ppm	0.0209 ppm
Concentration per Run 1	0.0001 ppm	0.0028 ppm	-0.0018 ppm	0.0016 ppm	0.0001 ppm	0.0000 ppm	0.0217 ppm
Concentration per Run 2	0.0005 ppm	0.0053 ppm	0.0023 ppm	0.0012 ppm	-0.0004 ppm	0.0000 ppm	0.0183 ppm
Concentration per Run 3	0.0005 ppm	0.0062 ppm	0.0015 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm	0.0228 ppm
Concentration RSD	54.8 %	36.5 %	323.8 %	46.5 %	158.1 %	212.1 %	11.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0008 ppm	-0.0006 ppm	-0.0003 ppm	0.0199 ppm	0.0122 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	0.0194 ppm	0.0238 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0011 ppm	-0.0011 ppm	-0.0005 ppm	0.0220 ppm	-0.0142 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	-0.0014 ppm	-0.0008 ppm	-0.0003 ppm	0.0183 ppm	0.0270 ppm	0.0028 ppm
Concentration RSD	253.3 %	109.9 %	103.2 %	77.0 %	9.7 %	187.6 %	89.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0006 ppm	-0.0002 ppm	-0.0003 ppm	-0.0018 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0006 ppm	-0.0007 ppm
Concentration per Run 2	0.0015 ppm	0.0000 ppm	-0.0005 ppm	-0.0005 ppm	-0.0007 ppm	-0.0028 ppm	-0.0035 ppm
Concentration per Run 3	-0.0017 ppm	0.0000 ppm	0.0002 ppm	-0.0019 ppm	-0.0005 ppm	0.0013 ppm	-0.0012 ppm
Concentration RSD	2,430.1 %	193.6 %	226.0 %	186.7 %	298.4 %	696.3 %	84.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0031 ppm	-0.0003 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	-0.0022 ppm	0.0041 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0015 ppm	-0.0006 ppm
Concentration per Run 2	-0.0008 ppm	0.0018 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	-0.0005 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0033 ppm	-0.0011 ppm	0.0002 ppm	0.0005 ppm	-0.0008 ppm	-0.0003 ppm
Concentration RSD	121.0 %	38.7 %	196.4 %	58.7 %	35.3 %	1,292.7 %	42.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	107.2540 %	108.2285 %	104.4987 %	105.2740 %	108.2434 %	105.0459 %
Concentration per Run 1	-0.0009 ppm	106.9284 %	108.5268 %	103.5746 %	105.0286 %	108.6511 %	103.9262 %
Concentration per Run 2	-0.0010 ppm	106.9500 %	108.5142 %	104.0161 %	105.1103 %	108.5457 %	104.8216 %
Concentration per Run 3	-0.0005 ppm	107.8837 %	107.6445 %	105.9053 %	105.6831 %	107.5333 %	106.3900 %
Concentration RSD	36.5 %	0.5 %	0.5 %	1.2 %	0.3 %	0.6 %	1.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-2d2 WG1974066
Analysis started at: 9/24/2024 3:07:34 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0506 ppm	1.8892 ppm	0.1160 ppm	0.9349 ppm	1.9034 ppm	0.0491 ppm	9.4637 ppm
Concentration per Run 1	0.0503 ppm	1.8915 ppm	0.1154 ppm	0.9326 ppm	1.9025 ppm	0.0491 ppm	9.4630 ppm
Concentration per Run 2	0.0508 ppm	1.8980 ppm	0.1161 ppm	0.9353 ppm	1.9148 ppm	0.0494 ppm	9.4970 ppm
Concentration per Run 3	0.0506 ppm	1.8782 ppm	0.1164 ppm	0.9370 ppm	1.8929 ppm	0.0488 ppm	9.4310 ppm
Concentration RSD	0.4 %	0.5 %	0.4 %	0.2 %	0.6 %	0.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0504 ppm	0.4860 ppm	0.1898 ppm	0.2440 ppm	0.9926 ppm	9.7070 ppm	0.0002 ppm
Concentration per Run 1	0.0505 ppm	0.4880 ppm	0.1906 ppm	0.2441 ppm	0.9943 ppm	9.7602 ppm	-0.0003 ppm
Concentration per Run 2	0.0508 ppm	0.4871 ppm	0.1899 ppm	0.2447 ppm	0.9919 ppm	9.7135 ppm	0.0011 ppm
Concentration per Run 3	0.0500 ppm	0.4829 ppm	0.1889 ppm	0.2432 ppm	0.9916 ppm	9.6472 ppm	-0.0003 ppm
Concentration RSD	0.8 %	0.6 %	0.5 %	0.3 %	0.2 %	0.6 %	495.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.5003 ppm	0.4845 ppm	0.9560 ppm	9.5853 ppm	0.4862 ppm	0.5127 ppm	0.4941 ppm
Concentration per Run 1	9.5841 ppm	0.4841 ppm	0.9521 ppm	9.5715 ppm	0.4884 ppm	0.5124 ppm	0.4966 ppm
Concentration per Run 2	9.4581 ppm	0.4857 ppm	0.9558 ppm	9.6810 ppm	0.4862 ppm	0.5144 ppm	0.4937 ppm
Concentration per Run 3	9.4587 ppm	0.4836 ppm	0.9601 ppm	9.5034 ppm	0.4839 ppm	0.5113 ppm	0.4920 ppm
Concentration RSD	0.8 %	0.2 %	0.4 %	0.9 %	0.5 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1149 ppm	0.6416 ppm	0.9274 ppm	0.9128 ppm	0.9569 ppm	0.1183 ppm	0.4819 ppm
Concentration per Run 1	0.1150 ppm	0.6443 ppm	0.9285 ppm	0.9097 ppm	0.9656 ppm	0.1177 ppm	0.4834 ppm
Concentration per Run 2	0.1135 ppm	0.6364 ppm	0.9250 ppm	0.9213 ppm	0.9562 ppm	0.1195 ppm	0.4813 ppm
Concentration per Run 3	0.1162 ppm	0.6440 ppm	0.9287 ppm	0.9076 ppm	0.9490 ppm	0.1177 ppm	0.4809 ppm
Concentration RSD	1.2 %	0.7 %	0.2 %	0.8 %	0.9 %	0.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4834 ppm	105.3514 %	106.2712 %	102.4555 %	102.8472 %	106.0522 %	103.0372 %
Concentration per Run 1	0.4847 ppm	104.8626 %	106.1848 %	101.9733 %	102.4400 %	105.9286 %	102.1685 %
Concentration per Run 2	0.4815 ppm	105.6288 %	105.4156 %	102.2111 %	103.0847 %	105.6757 %	102.9553 %
Concentration per Run 3	0.4841 ppm	105.5628 %	107.2133 %	103.1822 %	103.0170 %	106.5524 %	103.9877 %
Concentration RSD	0.4 %	0.4 %	0.8 %	0.6 %	0.3 %	0.4 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-01d2 WG1974066
Analysis started at: 9/24/2024 3:11:30 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0014 ppm	113.2641 ppm	0.0317 ppm	0.0286 ppm	0.7534 ppm	0.0114 ppm	49.4723 ppm
Concentration per Run 1	0.0015 ppm	111.9778 ppm	0.0294 ppm	0.0276 ppm	0.7523 ppm	0.0115 ppm	49.0029 ppm
Concentration per Run 2	0.0017 ppm	114.0271 ppm	0.0309 ppm	0.0290 ppm	0.7560 ppm	0.0114 ppm	49.7964 ppm
Concentration per Run 3	0.0012 ppm	113.7873 ppm	0.0348 ppm	0.0293 ppm	0.7518 ppm	0.0114 ppm	49.6178 ppm
Concentration RSD	18.2 %	1.0 %	8.8 %	3.1 %	0.3 %	0.5 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0034 ppm	0.0332 ppm	0.1018 ppm	0.1106 ppm	126.0829 ppm	5.8527 ppm	0.1028 ppm
Concentration per Run 1	0.0032 ppm	0.0333 ppm	0.1015 ppm	0.1098 ppm	125.5783 ppm	5.8086 ppm	0.1033 ppm
Concentration per Run 2	0.0032 ppm	0.0324 ppm	0.1021 ppm	0.1110 ppm	126.4565 ppm	5.8891 ppm	0.1024 ppm
Concentration per Run 3	0.0036 ppm	0.0338 ppm	0.1018 ppm	0.1110 ppm	126.2138 ppm	5.8603 ppm	0.1026 ppm
Concentration RSD	6.7 %	2.2 %	0.3 %	0.6 %	0.4 %	0.7 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.0133 ppm	0.8504 ppm	0.0071 ppm	1.0457 ppm	0.0850 ppm	0.1143 ppm	-0.0044 ppm
Concentration per Run 1	21.9573 ppm	0.8467 ppm	0.0070 ppm	1.0329 ppm	0.0851 ppm	0.1153 ppm	-0.0024 ppm
Concentration per Run 2	22.0097 ppm	0.8527 ppm	0.0074 ppm	1.0522 ppm	0.0841 ppm	0.1134 ppm	-0.0049 ppm
Concentration per Run 3	22.0730 ppm	0.8519 ppm	0.0068 ppm	1.0521 ppm	0.0856 ppm	0.1142 ppm	-0.0058 ppm
Concentration RSD	0.3 %	0.4 %	4.4 %	1.1 %	0.9 %	0.8 %	40.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	0.8041 ppm	0.0176 ppm	0.2055 ppm	2.9795 ppm	0.0063 ppm	0.2510 ppm
Concentration per Run 1	0.0040 ppm	0.7911 ppm	0.0164 ppm	0.2054 ppm	2.9773 ppm	0.0072 ppm	0.2505 ppm
Concentration per Run 2	0.0018 ppm	0.8158 ppm	0.0183 ppm	0.2056 ppm	2.9818 ppm	0.0054 ppm	0.2501 ppm
Concentration per Run 3	0.0058 ppm	0.8055 ppm	0.0180 ppm	0.2054 ppm	2.9792 ppm	0.0063 ppm	0.2526 ppm
Concentration RSD	51.3 %	1.5 %	5.5 %	0.1 %	0.1 %	14.5 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6813 ppm	113.6434 %	115.9930 %	106.9375 %	**227.4154 %**	**243.1236 %**	**231.0194 %**
Concentration per Run 1	0.6780 ppm	113.6223 %	116.9029 %	107.8754 %	**227.3418 %**	**242.9678 %**	**232.9420 %**
Concentration per Run 2	0.6794 ppm	114.2189 %	116.0114 %	105.5743 %	**228.1424 %**	**244.0684 %**	**228.0344 %**
Concentration per Run 3	0.6867 ppm	113.0890 %	115.0647 %	107.3629 %	**226.7622 %**	**242.3347 %**	**232.0817 %**
Concentration RSD	0.7 %	0.5 %	0.8 %	1.1 %	**0.3 %**	**0.4 %**	**1.1 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-3d2 WG1974066
Analysis started at: 9/24/2024 3:15:25 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0481 ppm	115.4337 ppm	0.1334 ppm	0.8290 ppm	2.4751 ppm	0.0567 ppm	57.2605 ppm
Concentration per Run 1	0.0480 ppm	115.2252 ppm	0.1321 ppm	0.8316 ppm	2.4705 ppm	0.0566 ppm	57.2050 ppm
Concentration per Run 2	0.0482 ppm	115.0127 ppm	0.1336 ppm	0.8214 ppm	2.4731 ppm	0.0567 ppm	57.1329 ppm
Concentration per Run 3	0.0481 ppm	116.0632 ppm	0.1344 ppm	0.8342 ppm	2.4817 ppm	0.0569 ppm	57.4436 ppm
Concentration RSD	0.2 %	0.5 %	0.9 %	0.8 %	0.2 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0492 ppm	0.4739 ppm	0.2751 ppm	0.3537 ppm	116.2602 ppm	14.6194 ppm	0.1017 ppm
Concentration per Run 1	0.0495 ppm	0.4756 ppm	0.2734 ppm	0.3543 ppm	116.1857 ppm	14.6031 ppm	0.1031 ppm
Concentration per Run 2	0.0491 ppm	0.4706 ppm	0.2757 ppm	0.3533 ppm	116.1325 ppm	14.6269 ppm	0.1007 ppm
Concentration per Run 3	0.0492 ppm	0.4755 ppm	0.2764 ppm	0.3536 ppm	116.4622 ppm	14.6281 ppm	0.1013 ppm
Concentration RSD	0.5 %	0.6 %	0.6 %	0.1 %	0.2 %	0.1 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.9966 ppm	1.2306 ppm	0.8760 ppm	9.8893 ppm	0.5265 ppm	0.5873 ppm	0.4191 ppm
Concentration per Run 1	29.9304 ppm	1.2242 ppm	0.8714 ppm	9.9248 ppm	0.5248 ppm	0.5904 ppm	0.4130 ppm
Concentration per Run 2	29.9421 ppm	1.2306 ppm	0.8733 ppm	9.8668 ppm	0.5256 ppm	0.5809 ppm	0.4183 ppm
Concentration per Run 3	30.1175 ppm	1.2371 ppm	0.8833 ppm	9.8764 ppm	0.5291 ppm	0.5907 ppm	0.4260 ppm
Concentration RSD	0.3 %	0.5 %	0.7 %	0.3 %	0.4 %	0.9 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0949 ppm	2.1916 ppm	0.8572 ppm	1.0357 ppm	4.1692 ppm	0.1108 ppm	0.6827 ppm
Concentration per Run 1	0.0957 ppm	2.1848 ppm	0.8556 ppm	1.0331 ppm	4.1557 ppm	0.1122 ppm	0.6829 ppm
Concentration per Run 2	0.0933 ppm	2.1897 ppm	0.8530 ppm	1.0373 ppm	4.1603 ppm	0.1094 ppm	0.6815 ppm
Concentration per Run 3	0.0956 ppm	2.2003 ppm	0.8630 ppm	1.0367 ppm	4.1916 ppm	0.1109 ppm	0.6836 ppm
Concentration RSD	1.5 %	0.4 %	0.6 %	0.2 %	0.5 %	1.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1121 ppm	111.9080 %	116.8355 %	106.7286 %	226.2549 %	246.5833 %	232.4585 %
Concentration per Run 1	1.1131 ppm	110.4880 %	116.4146 %	106.0557 %	223.3848 %	245.9284 %	231.9872 %
Concentration per Run 2	1.1063 ppm	112.4870 %	116.7580 %	106.7396 %	227.1550 %	245.9380 %	231.5012 %
Concentration per Run 3	1.1170 ppm	112.7492 %	117.3338 %	107.3904 %	228.2248 %	247.8835 %	233.8869 %
Concentration RSD	0.5 %	1.1 %	0.4 %	0.6 %	1.1 %	0.5 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-4d2 WG1974066
Analysis started at: 9/24/2024 3:19:20 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	121.5713 ppm	0.0365 ppm	0.0297 ppm	0.8382 ppm	0.0130 ppm	53.2298 ppm
Concentration per Run 1	0.0011 ppm	121.3947 ppm	0.0361 ppm	0.0299 ppm	0.8401 ppm	0.0130 ppm	53.2251 ppm
Concentration per Run 2	0.0009 ppm	121.5578 ppm	0.0366 ppm	0.0274 ppm	0.8395 ppm	0.0131 ppm	53.1543 ppm
Concentration per Run 3	0.0005 ppm	121.7613 ppm	0.0368 ppm	0.0318 ppm	0.8350 ppm	0.0130 ppm	53.3100 ppm
Concentration RSD	41.0 %	0.2 %	1.0 %	7.4 %	0.3 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0037 ppm	0.0313 ppm	0.1070 ppm	0.1222 ppm	120.0655 ppm	5.9339 ppm	0.1066 ppm
Concentration per Run 1	0.0035 ppm	0.0320 ppm	0.1069 ppm	0.1218 ppm	120.2710 ppm	6.0102 ppm	0.1072 ppm
Concentration per Run 2	0.0039 ppm	0.0301 ppm	0.1062 ppm	0.1225 ppm	120.3459 ppm	5.8958 ppm	0.1068 ppm
Concentration per Run 3	0.0037 ppm	0.0319 ppm	0.1079 ppm	0.1224 ppm	119.5795 ppm	5.8956 ppm	0.1058 ppm
Concentration RSD	5.0 %	3.5 %	0.8 %	0.3 %	0.4 %	1.1 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.8541 ppm	0.7841 ppm	0.0068 ppm	1.0956 ppm	0.0722 ppm	0.1236 ppm	-0.0044 ppm
Concentration per Run 1	22.8889 ppm	0.7828 ppm	0.0069 ppm	1.0989 ppm	0.0724 ppm	0.1240 ppm	-0.0045 ppm
Concentration per Run 2	22.7911 ppm	0.7840 ppm	0.0075 ppm	1.0944 ppm	0.0719 ppm	0.1228 ppm	0.0010 ppm
Concentration per Run 3	22.8823 ppm	0.7856 ppm	0.0059 ppm	1.0935 ppm	0.0721 ppm	0.1240 ppm	-0.0096 ppm
Concentration RSD	0.2 %	0.2 %	11.9 %	0.3 %	0.4 %	0.5 %	121.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0045 ppm	1.5424 ppm	0.0188 ppm	0.2138 ppm	3.2256 ppm	0.0060 ppm	0.2258 ppm
Concentration per Run 1	0.0079 ppm	1.5414 ppm	0.0188 ppm	0.2144 ppm	3.2215 ppm	0.0041 ppm	0.2265 ppm
Concentration per Run 2	0.0029 ppm	1.5374 ppm	0.0184 ppm	0.2142 ppm	3.2229 ppm	0.0072 ppm	0.2250 ppm
Concentration per Run 3	0.0028 ppm	1.5484 ppm	0.0191 ppm	0.2129 ppm	3.2324 ppm	0.0066 ppm	0.2259 ppm
Concentration RSD	64.9 %	0.4 %	2.0 %	0.4 %	0.2 %	27.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6547 ppm	112.8358 %	114.0440 %	106.4984 %	**249.6457 %**	**266.4107 %**	**253.4050 %**
Concentration per Run 1	0.6550 ppm	113.4211 %	113.2782 %	106.3453 %	**250.6079 %**	**264.6904 %**	**253.3898 %**
Concentration per Run 2	0.6504 ppm	113.4263 %	114.1303 %	105.9585 %	**251.2752 %**	**265.5777 %**	**251.8815 %**
Concentration per Run 3	0.6588 ppm	111.6599 %	114.7234 %	107.1913 %	**247.0539 %**	**268.9641 %**	**254.9437 %**
Concentration RSD	0.6 %	0.9 %	0.6 %	0.6 %	**0.9 %**	**0.8 %**	**0.6 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-5d2 WG1974066
Analysis started at: 9/24/2024 3:23:15 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0448 ppm	112.6469 ppm	0.1412 ppm	0.9239 ppm	2.5051 ppm	0.0565 ppm	57.1657 ppm
Concentration per Run 1	0.0452 ppm	112.8986 ppm	0.1404 ppm	0.9183 ppm	2.5162 ppm	0.0565 ppm	57.2365 ppm
Concentration per Run 2	0.0452 ppm	112.2587 ppm	0.1416 ppm	0.9198 ppm	2.4966 ppm	0.0565 ppm	57.0280 ppm
Concentration per Run 3	0.0441 ppm	112.7834 ppm	0.1415 ppm	0.9337 ppm	2.5026 ppm	0.0564 ppm	57.2327 ppm
Concentration RSD	1.5 %	0.3 %	0.5 %	0.9 %	0.4 %	0.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0492 ppm	0.4709 ppm	0.2742 ppm	0.3433 ppm	123.6891 ppm	15.2590 ppm	0.1010 ppm
Concentration per Run 1	0.0493 ppm	0.4729 ppm	0.2729 ppm	0.3430 ppm	123.6887 ppm	15.3157 ppm	0.1036 ppm
Concentration per Run 2	0.0487 ppm	0.4671 ppm	0.2725 ppm	0.3427 ppm	123.6714 ppm	15.2027 ppm	0.0993 ppm
Concentration per Run 3	0.0498 ppm	0.4728 ppm	0.2771 ppm	0.3444 ppm	123.7071 ppm	15.2586 ppm	0.1001 ppm
Concentration RSD	1.1 %	0.7 %	0.9 %	0.3 %	0.0 %	0.4 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.5363 ppm	1.2752 ppm	0.9192 ppm	10.4384 ppm	0.5219 ppm	0.5810 ppm	0.4404 ppm
Concentration per Run 1	30.5941 ppm	1.2781 ppm	0.9121 ppm	10.4470 ppm	0.5189 ppm	0.5841 ppm	0.4370 ppm
Concentration per Run 2	30.4688 ppm	1.2737 ppm	0.9127 ppm	10.3715 ppm	0.5191 ppm	0.5781 ppm	0.4359 ppm
Concentration per Run 3	30.5459 ppm	1.2738 ppm	0.9328 ppm	10.4968 ppm	0.5276 ppm	0.5808 ppm	0.4482 ppm
Concentration RSD	0.2 %	0.2 %	1.3 %	0.6 %	1.0 %	0.5 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1065 ppm	1.7529 ppm	0.9044 ppm	1.0791 ppm	3.8287 ppm	0.1110 ppm	0.6905 ppm
Concentration per Run 1	0.1031 ppm	1.7413 ppm	0.8958 ppm	1.0842 ppm	3.8258 ppm	0.1113 ppm	0.6885 ppm
Concentration per Run 2	0.1072 ppm	1.7383 ppm	0.9037 ppm	1.0759 ppm	3.8322 ppm	0.1135 ppm	0.6891 ppm
Concentration per Run 3	0.1092 ppm	1.7793 ppm	0.9137 ppm	1.0772 ppm	3.8280 ppm	0.1084 ppm	0.6939 ppm
Concentration RSD	2.9 %	1.3 %	1.0 %	0.4 %	0.1 %	2.3 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1132 ppm	111.2678 %	115.5266 %	106.2121 %	221.1132 %	239.0332 %	226.3374 %
Concentration per Run 1	1.1010 ppm	112.2158 %	116.1420 %	106.5053 %	223.0170 %	240.9550 %	227.2318 %
Concentration per Run 2	1.1112 ppm	111.4574 %	116.0420 %	106.1103 %	221.3503 %	240.0220 %	225.9527 %
Concentration per Run 3	1.1274 ppm	110.1302 %	114.3958 %	106.0205 %	218.9724 %	236.1225 %	225.8276 %
Concentration RSD	1.2 %	0.9 %	0.8 %	0.2 %	0.9 %	1.1 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974066-6d10 WG1974066
Analysis started at: 9/24/2024 3:27:10 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	24.4228 ppm	0.0074 ppm	0.0085 ppm	0.1620 ppm	0.0025 ppm	10.7818 ppm
Concentration per Run 1	0.0007 ppm	24.4581 ppm	0.0056 ppm	0.0082 ppm	0.1624 ppm	0.0025 ppm	10.7792 ppm
Concentration per Run 2	0.0004 ppm	24.2807 ppm	0.0100 ppm	0.0077 ppm	0.1617 ppm	0.0025 ppm	10.7775 ppm
Concentration per Run 3	0.0008 ppm	24.5298 ppm	0.0067 ppm	0.0095 ppm	0.1618 ppm	0.0025 ppm	10.7888 ppm
Concentration RSD	28.6 %	0.5 %	30.7 %	11.2 %	0.2 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.0073 ppm	0.0217 ppm	0.0231 ppm	27.8271 ppm	1.2432 ppm	0.0231 ppm
Concentration per Run 1	0.0007 ppm	0.0073 ppm	0.0216 ppm	0.0233 ppm	27.8400 ppm	1.2986 ppm	0.0245 ppm
Concentration per Run 2	0.0007 ppm	0.0069 ppm	0.0219 ppm	0.0231 ppm	27.8588 ppm	1.2140 ppm	0.0222 ppm
Concentration per Run 3	0.0008 ppm	0.0076 ppm	0.0216 ppm	0.0230 ppm	27.7826 ppm	1.2171 ppm	0.0225 ppm
Concentration RSD	4.5 %	4.8 %	0.7 %	0.6 %	0.1 %	3.9 %	5.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.8200 ppm	0.1832 ppm	0.0036 ppm	0.2224 ppm	0.0194 ppm	0.0241 ppm	0.0004 ppm
Concentration per Run 1	4.8094 ppm	0.1829 ppm	0.0035 ppm	0.2247 ppm	0.0193 ppm	0.0241 ppm	-0.0003 ppm
Concentration per Run 2	4.8117 ppm	0.1830 ppm	0.0032 ppm	0.2293 ppm	0.0194 ppm	0.0245 ppm	0.0028 ppm
Concentration per Run 3	4.8389 ppm	0.1836 ppm	0.0041 ppm	0.2132 ppm	0.0197 ppm	0.0236 ppm	-0.0014 ppm
Concentration RSD	0.3 %	0.2 %	13.2 %	3.7 %	1.0 %	1.8 %	613.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.1699 ppm	0.0043 ppm	0.0435 ppm	0.6406 ppm	0.0014 ppm	0.0531 ppm
Concentration per Run 1	-0.0019 ppm	0.1663 ppm	0.0050 ppm	0.0434 ppm	0.6406 ppm	0.0001 ppm	0.0529 ppm
Concentration per Run 2	0.0002 ppm	0.1672 ppm	0.0052 ppm	0.0435 ppm	0.6392 ppm	0.0030 ppm	0.0530 ppm
Concentration per Run 3	0.0023 ppm	0.1763 ppm	0.0028 ppm	0.0436 ppm	0.6422 ppm	0.0012 ppm	0.0535 ppm
Concentration RSD	998.3 %	3.3 %	31.2 %	0.3 %	0.2 %	104.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1486 ppm	107.9671 %	107.5007 %	105.1413 %	129.2084 %	132.8157 %	130.3887 %
Concentration per Run 1	0.1487 ppm	107.8241 %	107.4340 %	105.2967 %	128.3306 %	132.7966 %	130.3639 %
Concentration per Run 2	0.1475 ppm	108.0919 %	108.4488 %	105.3739 %	129.9012 %	133.8654 %	130.9715 %
Concentration per Run 3	0.1496 ppm	107.9855 %	106.6192 %	104.7534 %	129.3933 %	131.7850 %	129.8307 %
Concentration RSD	0.7 %	0.1 %	0.9 %	0.3 %	0.6 %	0.8 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-02d2 WG1974066
Analysis started at: 9/24/2024 3:31:05 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	50.3518 ppm	0.0259 ppm	0.0104 ppm	0.4293 ppm	0.0060 ppm	40.2712 ppm
Concentration per Run 1	0.0006 ppm	50.1421 ppm	0.0248 ppm	0.0099 ppm	0.4279 ppm	0.0060 ppm	40.1553 ppm
Concentration per Run 2	0.0010 ppm	50.1430 ppm	0.0264 ppm	0.0105 ppm	0.4280 ppm	0.0060 ppm	40.1426 ppm
Concentration per Run 3	0.0009 ppm	50.7702 ppm	0.0265 ppm	0.0107 ppm	0.4319 ppm	0.0060 ppm	40.5156 ppm
Concentration RSD	26.0 %	0.7 %	3.8 %	3.7 %	0.5 %	0.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0269 ppm	0.0581 ppm	0.1113 ppm	106.9661 ppm	3.5875 ppm	0.0524 ppm
Concentration per Run 1	0.0024 ppm	0.0263 ppm	0.0583 ppm	0.1109 ppm	106.4158 ppm	3.5708 ppm	0.0540 ppm
Concentration per Run 2	0.0023 ppm	0.0271 ppm	0.0580 ppm	0.1110 ppm	107.3430 ppm	3.6039 ppm	0.0521 ppm
Concentration per Run 3	0.0022 ppm	0.0273 ppm	0.0581 ppm	0.1122 ppm	107.1397 ppm	3.5877 ppm	0.0512 ppm
Concentration RSD	5.2 %	2.0 %	0.3 %	0.6 %	0.5 %	0.5 %	2.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.3021 ppm	1.4732 ppm	0.0064 ppm	0.9943 ppm	0.0775 ppm	0.0453 ppm	-0.0021 ppm
Concentration per Run 1	15.2378 ppm	1.4725 ppm	0.0062 ppm	0.9964 ppm	0.0768 ppm	0.0468 ppm	-0.0052 ppm
Concentration per Run 2	15.3720 ppm	1.4770 ppm	0.0064 ppm	0.9869 ppm	0.0774 ppm	0.0442 ppm	0.0007 ppm
Concentration per Run 3	15.2966 ppm	1.4702 ppm	0.0067 ppm	0.9997 ppm	0.0782 ppm	0.0450 ppm	-0.0018 ppm
Concentration RSD	0.4 %	0.2 %	3.2 %	0.7 %	0.9 %	2.9 %	140.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	4.2644 ppm	0.0087 ppm	0.1390 ppm	2.1563 ppm	0.0036 ppm	0.1478 ppm
Concentration per Run 1	0.0028 ppm	4.2029 ppm	0.0083 ppm	0.1382 ppm	2.1471 ppm	0.0034 ppm	0.1480 ppm
Concentration per Run 2	0.0009 ppm	4.2900 ppm	0.0095 ppm	0.1392 ppm	2.1638 ppm	0.0027 ppm	0.1473 ppm
Concentration per Run 3	0.0027 ppm	4.3003 ppm	0.0083 ppm	0.1395 ppm	2.1581 ppm	0.0047 ppm	0.1481 ppm
Concentration RSD	50.8 %	1.3 %	7.7 %	0.5 %	0.4 %	27.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3275 ppm	109.5831 %	110.6923 %	104.5135 %	**186.0200 %**	**195.1969 %**	**187.7464 %**
Concentration per Run 1	0.3257 ppm	109.1890 %	111.4506 %	104.0906 %	**185.1987 %**	**196.0498 %**	**187.3427 %**
Concentration per Run 2	0.3268 ppm	109.8496 %	110.1514 %	104.9143 %	**186.5075 %**	**193.4981 %**	**187.9088 %**
Concentration per Run 3	0.3298 ppm	109.7107 %	110.4748 %	104.5356 %	**186.3539 %**	**196.0427 %**	**187.9876 %**
Concentration RSD	0.6 %	0.3 %	0.6 %	0.4 %	**0.4 %**	**0.8 %**	**0.2 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-03d2 WG1974066
Analysis started at: 9/24/2024 3:35:00 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	122.4461 ppm	0.0271 ppm	0.0058 ppm	0.7983 ppm	0.0106 ppm	31.5730 ppm
Concentration per Run 1	0.0013 ppm	122.5064 ppm	0.0268 ppm	0.0051 ppm	0.8009 ppm	0.0106 ppm	31.6293 ppm
Concentration per Run 2	0.0012 ppm	122.6122 ppm	0.0290 ppm	0.0069 ppm	0.7962 ppm	0.0106 ppm	31.7018 ppm
Concentration per Run 3	0.0013 ppm	122.2198 ppm	0.0255 ppm	0.0053 ppm	0.7977 ppm	0.0105 ppm	31.3879 ppm
Concentration RSD	5.6 %	0.2 %	6.7 %	17.1 %	0.3 %	0.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0407 ppm	0.1005 ppm	0.0585 ppm	182.2217 ppm	4.8035 ppm	0.1150 ppm
Concentration per Run 1	0.0017 ppm	0.0409 ppm	0.1003 ppm	0.0592 ppm	182.2237 ppm	4.8749 ppm	0.1162 ppm
Concentration per Run 2	0.0014 ppm	0.0407 ppm	0.1004 ppm	0.0574 ppm	182.6177 ppm	4.8023 ppm	0.1142 ppm
Concentration per Run 3	0.0014 ppm	0.0404 ppm	0.1008 ppm	0.0587 ppm	181.8236 ppm	4.7334 ppm	0.1147 ppm
Concentration RSD	11.6 %	0.6 %	0.2 %	1.6 %	0.2 %	1.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.5480 ppm	1.1323 ppm	0.0037 ppm	0.9133 ppm	0.0675 ppm	0.1292 ppm	-0.0047 ppm
Concentration per Run 1	21.6118 ppm	1.1338 ppm	0.0038 ppm	0.9208 ppm	0.0671 ppm	0.1281 ppm	-0.0021 ppm
Concentration per Run 2	21.4517 ppm	1.1407 ppm	0.0033 ppm	0.9110 ppm	0.0667 ppm	0.1282 ppm	-0.0016 ppm
Concentration per Run 3	21.5806 ppm	1.1225 ppm	0.0040 ppm	0.9080 ppm	0.0686 ppm	0.1315 ppm	-0.0103 ppm
Concentration RSD	0.4 %	0.8 %	10.4 %	0.7 %	1.5 %	1.5 %	103.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	1.6520 ppm	0.0179 ppm	0.1884 ppm	3.5661 ppm	0.0048 ppm	0.2449 ppm
Concentration per Run 1	0.0009 ppm	1.6530 ppm	0.0193 ppm	0.1888 ppm	3.5566 ppm	0.0050 ppm	0.2460 ppm
Concentration per Run 2	0.0041 ppm	1.6498 ppm	0.0175 ppm	0.1888 ppm	3.5651 ppm	0.0073 ppm	0.2445 ppm
Concentration per Run 3	-0.0025 ppm	1.6530 ppm	0.0169 ppm	0.1876 ppm	3.5767 ppm	0.0021 ppm	0.2443 ppm
Concentration RSD	389.0 %	0.1 %	6.9 %	0.4 %	0.3 %	54.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5540 ppm	110.7235 %	113.6139 %	105.2198 %	**194.8976 %**	**208.8106 %**	**199.6252 %**
Concentration per Run 1	0.5520 ppm	111.0076 %	113.2132 %	105.2537 %	**195.3787 %**	**208.7674 %**	**199.1039 %**
Concentration per Run 2	0.5544 ppm	110.8523 %	112.7654 %	105.1630 %	**195.0218 %**	**207.9213 %**	**199.6957 %**
Concentration per Run 3	0.5555 ppm	110.3105 %	114.8633 %	105.2426 %	**194.2923 %**	**209.7432 %**	**200.0759 %**
Concentration RSD	0.3 %	0.3 %	1.0 %	0.0 %	**0.3 %**	**0.4 %**	**0.2 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-04d2 WG1974066
Analysis started at: 9/24/2024 3:38:55 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	99.7559 ppm	0.0255 ppm	0.0076 ppm	0.4499 ppm	0.0056 ppm	11.9234 ppm
Concentration per Run 1	0.0018 ppm	99.4921 ppm	0.0271 ppm	0.0073 ppm	0.4483 ppm	0.0055 ppm	11.9314 ppm
Concentration per Run 2	0.0022 ppm	100.2169 ppm	0.0247 ppm	0.0096 ppm	0.4502 ppm	0.0056 ppm	11.9433 ppm
Concentration per Run 3	0.0019 ppm	99.5586 ppm	0.0246 ppm	0.0059 ppm	0.4513 ppm	0.0056 ppm	11.8954 ppm
Concentration RSD	9.1 %	0.4 %	5.4 %	24.0 %	0.3 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0274 ppm	0.0692 ppm	0.0434 ppm	155.2260 ppm	2.8942 ppm	0.0763 ppm
Concentration per Run 1	0.0015 ppm	0.0272 ppm	0.0688 ppm	0.0427 ppm	154.4561 ppm	2.9080 ppm	0.0776 ppm
Concentration per Run 2	0.0016 ppm	0.0278 ppm	0.0700 ppm	0.0442 ppm	155.7893 ppm	2.8939 ppm	0.0755 ppm
Concentration per Run 3	0.0013 ppm	0.0272 ppm	0.0688 ppm	0.0433 ppm	155.4326 ppm	2.8807 ppm	0.0759 ppm
Concentration RSD	10.1 %	1.4 %	1.0 %	1.7 %	0.4 %	0.5 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.6346 ppm	1.2928 ppm	0.0080 ppm	0.4769 ppm	0.0501 ppm	0.1095 ppm	-0.0003 ppm
Concentration per Run 1	12.6311 ppm	1.2914 ppm	0.0081 ppm	0.4753 ppm	0.0501 ppm	0.1091 ppm	-0.0032 ppm
Concentration per Run 2	12.6810 ppm	1.2945 ppm	0.0079 ppm	0.4805 ppm	0.0497 ppm	0.1089 ppm	0.0005 ppm
Concentration per Run 3	12.5916 ppm	1.2926 ppm	0.0081 ppm	0.4749 ppm	0.0504 ppm	0.1107 ppm	0.0018 ppm
Concentration RSD	0.4 %	0.1 %	1.9 %	0.7 %	0.7 %	0.9 %	860.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	1.2283 ppm	0.0158 ppm	0.0548 ppm	3.2089 ppm	0.0029 ppm	0.2204 ppm
Concentration per Run 1	0.0042 ppm	1.2375 ppm	0.0155 ppm	0.0545 ppm	3.2079 ppm	0.0023 ppm	0.2199 ppm
Concentration per Run 2	0.0005 ppm	1.2386 ppm	0.0159 ppm	0.0550 ppm	3.2263 ppm	0.0032 ppm	0.2211 ppm
Concentration per Run 3	0.0012 ppm	1.2090 ppm	0.0159 ppm	0.0550 ppm	3.1926 ppm	0.0031 ppm	0.2202 ppm
Concentration RSD	101.3 %	1.4 %	1.3 %	0.6 %	0.5 %	17.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4768 ppm	108.0890 %	110.1668 %	103.6670 %	133.0116 %	139.8919 %	135.9094 %
Concentration per Run 1	0.4765 ppm	109.0510 %	110.4926 %	104.1319 %	134.1069 %	140.4925 %	137.1830 %
Concentration per Run 2	0.4805 ppm	107.1336 %	109.6269 %	104.1173 %	131.6932 %	139.3215 %	135.7725 %
Concentration per Run 3	0.4733 ppm	108.0826 %	110.3808 %	102.7519 %	133.2346 %	139.8619 %	134.7726 %
Concentration RSD	0.8 %	0.9 %	0.4 %	0.8 %	0.9 %	0.4 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 3:42:50 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5104 ppm	0.4756 ppm	0.4786 ppm	0.4941 ppm	0.4860 ppm	0.5003 ppm	0.4822 ppm
Concentration per Run 1	0.4859 ppm	0.4769 ppm	0.4755 ppm	0.4767 ppm	0.4897 ppm	0.5019 ppm	0.4847 ppm
Concentration per Run 2	0.5386 ppm	0.4636 ppm	0.4808 ppm	0.5193 ppm	0.4823 ppm	0.4990 ppm	0.4827 ppm
Concentration per Run 3	0.5067 ppm	0.4863 ppm	0.4794 ppm	0.4864 ppm	0.4861 ppm	0.4998 ppm	0.4792 ppm
Recovery Percentage 1	102.077 %	95.116 %	95.712 %	98.829 %	97.205 %	100.050 %	96.443 %
Concentration RSD	5.2 %	2.4 %	0.6 %	4.5 %	0.8 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4961 ppm	0.5071 ppm	0.4877 ppm	0.4923 ppm	0.4993 ppm	5.0657 ppm	0.4845 ppm
Concentration per Run 1	0.4735 ppm	0.4812 ppm	0.4648 ppm	0.4689 ppm	0.5027 ppm	5.0931 ppm	0.4851 ppm
Concentration per Run 2	0.5259 ppm	0.5400 ppm	0.5165 ppm	0.5207 ppm	0.4993 ppm	5.0578 ppm	0.4867 ppm
Concentration per Run 3	0.4888 ppm	0.5001 ppm	0.4819 ppm	0.4874 ppm	0.4960 ppm	5.0462 ppm	0.4818 ppm
Recovery Percentage 1	99.214 %	101.418 %	97.541 %	98.462 %	99.868 %	101.314 %	96.910 %
Concentration RSD	5.4 %	5.9 %	5.4 %	5.3 %	0.7 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4903 ppm	0.4796 ppm	0.4924 ppm	9.7504 ppm	0.5080 ppm	0.4921 ppm	0.5072 ppm
Concentration per Run 1	0.4679 ppm	0.4784 ppm	0.4659 ppm	9.7727 ppm	0.4832 ppm	0.4917 ppm	0.4848 ppm
Concentration per Run 2	0.5174 ppm	0.4812 ppm	0.5232 ppm	9.7060 ppm	0.5398 ppm	0.4929 ppm	0.5361 ppm
Concentration per Run 3	0.4855 ppm	0.4792 ppm	0.4881 ppm	9.7723 ppm	0.5010 ppm	0.4917 ppm	0.5007 ppm
Recovery Percentage 1	98.055 %	95.923 %	98.476 %	97.504 %	101.597 %	98.418 %	101.442 %
Concentration RSD	5.1 %	0.3 %	5.9 %	0.4 %	5.7 %	0.1 %	5.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4893 ppm	5.3177 ppm	0.4788 ppm	0.4676 ppm	0.4997 ppm	0.4962 ppm	0.4819 ppm
Concentration per Run 1	0.4884 ppm	5.0765 ppm	0.4542 ppm	0.4698 ppm	0.4744 ppm	0.4927 ppm	0.4585 ppm
Concentration per Run 2	0.4884 ppm	5.6136 ppm	0.5087 ppm	0.4652 ppm	0.5296 ppm	0.4973 ppm	0.5116 ppm
Concentration per Run 3	0.4911 ppm	5.2629 ppm	0.4734 ppm	0.4676 ppm	0.4952 ppm	0.4987 ppm	0.4758 ppm
Recovery Percentage 1	97.862 %	101.289 %	95.752 %	93.514 %	99.946 %	99.245 %	96.389 %
Concentration RSD	0.3 %	5.1 %	5.8 %	0.5 %	5.6 %	0.6 %	5.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5035 ppm	104.6290 %	104.5828 %	103.7068 %	102.6539 %	104.1639 %	103.5276 %
Concentration per Run 1	0.4808 ppm	109.8629 %	105.3528 %	104.0757 %	107.5193 %	105.3629 %	103.7220 %
Concentration per Run 2	0.5334 ppm	98.5686 %	104.5601 %	103.3188 %	97.1533 %	103.6088 %	103.2535 %
Concentration per Run 3	0.4964 ppm	105.4553 %	103.8356 %	103.7259 %	103.2893 %	103.5199 %	103.6073 %
Recovery Percentage 1	100.705 %						
Concentration RSD	5.4 %	5.4 %	0.7 %	0.4 %	5.1 %	1.0 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 3:46:45 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0096 ppm	0.0011 ppm	0.0020 ppm	-0.0002 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.0008 ppm	0.0080 ppm	-0.0023 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 2	0.0004 ppm	0.0114 ppm	0.0025 ppm	0.0036 ppm	-0.0004 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 3	0.0008 ppm	0.0094 ppm	0.0031 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm
Recovery Percentage 1	8.968 %	9.612 %	22.010 %	6.549 %	-1.714 %	0.081 %	-0.643 %
Concentration RSD	36.6 %	18.1 %	270.6 %	84.6 %	144.7 %	962.6 %	234.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0002 ppm	-0.0002 ppm	0.0049 ppm	-0.0066 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0005 ppm	-0.0001 ppm	-0.0006 ppm	0.0040 ppm	-0.0046 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm	0.0054 ppm	-0.0036 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0054 ppm	-0.0116 ppm	0.0004 ppm
Recovery Percentage 1	0.808 %	1.126 %	-2.046 %	-2.395 %	9.870 %	-0.264 %	6.017 %
Concentration RSD	332.6 %	132.6 %	52.3 %	129.9 %	15.9 %	66.5 %	21.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0033 ppm	-0.0002 ppm	0.0010 ppm	-0.0029 ppm	-0.0001 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 1	-0.0003 ppm	-0.0001 ppm	0.0007 ppm	-0.0043 ppm	0.0000 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 2	-0.0053 ppm	-0.0001 ppm	0.0015 ppm	-0.0036 ppm	0.0002 ppm	-0.0005 ppm	0.0015 ppm
Concentration per Run 3	-0.0042 ppm	-0.0002 ppm	0.0010 ppm	-0.0009 ppm	-0.0005 ppm	-0.0003 ppm	0.0013 ppm
Recovery Percentage 1	-3.284 %	-1.656 %	2.066 %	-0.146 %	-0.397 %	-1.545 %	1.852 %
Concentration RSD	79.4 %	19.4 %	38.9 %	61.8 %	356.4 %	289.0 %	96.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	-0.0018 ppm	-0.0012 ppm	0.0001 ppm	0.0007 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 1	-0.0063 ppm	-0.0039 ppm	-0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 2	0.0005 ppm	0.0001 ppm	-0.0013 ppm	0.0001 ppm	0.0006 ppm	-0.0014 ppm	-0.0004 ppm
Concentration per Run 3	-0.0018 ppm	-0.0015 ppm	-0.0022 ppm	0.0001 ppm	0.0005 ppm	-0.0005 ppm	-0.0005 ppm
Recovery Percentage 1	-25.116 %	-0.355 %	-2.431 %	0.847 %	6.627 %	-1.812 %	-3.520 %
Concentration RSD	137.6 %	113.1 %	83.6 %	43.9 %	32.7 %	301.8 %	42.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0017 ppm	104.4731 %	103.1585 %	103.1976 %	103.6931 %	103.9101 %	104.0044 %
Concentration per Run 1	-0.0016 ppm	104.4339 %	102.8648 %	102.7923 %	103.8587 %	103.7054 %	103.2499 %
Concentration per Run 2	-0.0016 ppm	105.1388 %	102.9128 %	103.5152 %	104.6231 %	103.4985 %	104.4479 %
Concentration per Run 3	-0.0018 ppm	103.8466 %	103.6980 %	103.2851 %	102.5974 %	104.5263 %	104.3155 %
Recovery Percentage 1	-33.454 %						
Concentration RSD	5.1 %	0.6 %	0.5 %	0.4 %	1.0 %	0.5 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-05d2 WG1974066
Analysis started at: 9/24/2024 3:52:01 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	151.4827 ppm	0.0270 ppm	0.0089 ppm	0.8683 ppm	0.0123 ppm	31.9255 ppm
Concentration per Run 1	0.0019 ppm	150.5994 ppm	0.0285 ppm	0.0092 ppm	0.8605 ppm	0.0123 ppm	31.7597 ppm
Concentration per Run 2	0.0015 ppm	152.0169 ppm	0.0267 ppm	0.0099 ppm	0.8662 ppm	0.0122 ppm	31.9766 ppm
Concentration per Run 3	0.0026 ppm	151.8317 ppm	0.0258 ppm	0.0076 ppm	0.8783 ppm	0.0124 ppm	32.0401 ppm
Concentration RSD	26.5 %	0.5 %	5.2 %	13.3 %	1.0 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0023 ppm	0.0472 ppm	0.1080 ppm	0.0617 ppm	213.1332 ppm	6.5674 ppm	0.1331 ppm
Concentration per Run 1	0.0023 ppm	0.0472 ppm	0.1094 ppm	0.0620 ppm	212.0312 ppm	6.5353 ppm	0.1328 ppm
Concentration per Run 2	0.0023 ppm	0.0469 ppm	0.1060 ppm	0.0611 ppm	213.5907 ppm	6.5927 ppm	0.1332 ppm
Concentration per Run 3	0.0023 ppm	0.0475 ppm	0.1086 ppm	0.0619 ppm	213.7777 ppm	6.5742 ppm	0.1332 ppm
Concentration RSD	0.7 %	0.6 %	1.6 %	0.8 %	0.4 %	0.4 %	0.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.8479 ppm	3.9819 ppm	0.0069 ppm	0.7600 ppm	0.0793 ppm	0.1079 ppm	-0.0050 ppm
Concentration per Run 1	21.9272 ppm	3.9784 ppm	0.0065 ppm	0.7557 ppm	0.0806 ppm	0.1069 ppm	-0.0018 ppm
Concentration per Run 2	21.8475 ppm	3.9619 ppm	0.0071 ppm	0.7633 ppm	0.0781 ppm	0.1077 ppm	-0.0120 ppm
Concentration per Run 3	21.7690 ppm	4.0055 ppm	0.0071 ppm	0.7609 ppm	0.0793 ppm	0.1091 ppm	-0.0011 ppm
Concentration RSD	0.4 %	0.6 %	4.6 %	0.5 %	1.6 %	1.0 %	123.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	1.1429 ppm	0.0177 ppm	0.1317 ppm	3.1622 ppm	0.0054 ppm	0.3061 ppm
Concentration per Run 1	0.0022 ppm	1.1424 ppm	0.0172 ppm	0.1312 ppm	3.1712 ppm	0.0049 ppm	0.3070 ppm
Concentration per Run 2	-0.0015 ppm	1.1423 ppm	0.0183 ppm	0.1319 ppm	3.1500 ppm	0.0071 ppm	0.3066 ppm
Concentration per Run 3	0.0056 ppm	1.1441 ppm	0.0174 ppm	0.1322 ppm	3.1656 ppm	0.0042 ppm	0.3048 ppm
Concentration RSD	167.0 %	0.1 %	3.4 %	0.4 %	0.3 %	28.2 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7321 ppm	109.7683 %	115.3820 %	102.9213 %	**209.5216 %**	**229.0490 %**	**212.8792 %**
Concentration per Run 1	0.7369 ppm	109.8097 %	116.0871 %	103.7651 %	**209.2440 %**	**229.7711 %**	**214.3874 %**
Concentration per Run 2	0.7246 ppm	110.9157 %	113.7955 %	102.3250 %	**211.1768 %**	**226.1196 %**	**212.2322 %**
Concentration per Run 3	0.7347 ppm	108.5793 %	116.2634 %	102.6736 %	**208.1439 %**	**231.2562 %**	**212.0179 %**
Concentration RSD	0.9 %	1.1 %	1.2 %	0.7 %	**0.7 %**	**1.2 %**	**0.6 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-06d2 WG1974066
Analysis started at: 9/24/2024 3:56:10 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	155.7513 ppm	0.0276 ppm	0.0067 ppm	0.7444 ppm	0.0122 ppm	18.5602 ppm
Concentration per Run 1	0.0022 ppm	155.8520 ppm	0.0263 ppm	0.0073 ppm	0.7485 ppm	0.0122 ppm	18.6054 ppm
Concentration per Run 2	0.0021 ppm	155.7450 ppm	0.0276 ppm	0.0069 ppm	0.7394 ppm	0.0122 ppm	18.5862 ppm
Concentration per Run 3	0.0012 ppm	155.6570 ppm	0.0289 ppm	0.0059 ppm	0.7454 ppm	0.0122 ppm	18.4889 ppm
Concentration RSD	28.0 %	0.1 %	4.8 %	10.7 %	0.6 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.0581 ppm	0.1173 ppm	0.0693 ppm	322.5702 ppm	6.7952 ppm	0.1202 ppm
Concentration per Run 1	0.0020 ppm	0.0582 ppm	0.1169 ppm	0.0698 ppm	323.7442 ppm	6.8563 ppm	0.1220 ppm
Concentration per Run 2	0.0022 ppm	0.0567 ppm	0.1178 ppm	0.0681 ppm	321.1319 ppm	6.7229 ppm	0.1185 ppm
Concentration per Run 3	0.0022 ppm	0.0596 ppm	0.1171 ppm	0.0699 ppm	322.8346 ppm	6.8062 ppm	0.1203 ppm
Concentration RSD	6.8 %	2.5 %	0.4 %	1.4 %	0.4 %	1.0 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.2448 ppm	6.1097 ppm	0.0105 ppm	0.9001 ppm	0.0793 ppm	0.1172 ppm	-0.0045 ppm
Concentration per Run 1	22.2100 ppm	6.1234 ppm	0.0101 ppm	0.9041 ppm	0.0789 ppm	0.1176 ppm	-0.0016 ppm
Concentration per Run 2	22.2967 ppm	6.0815 ppm	0.0100 ppm	0.8994 ppm	0.0789 ppm	0.1155 ppm	-0.0099 ppm
Concentration per Run 3	22.2276 ppm	6.1240 ppm	0.0115 ppm	0.8967 ppm	0.0802 ppm	0.1186 ppm	-0.0020 ppm
Concentration RSD	0.2 %	0.4 %	7.9 %	0.4 %	0.9 %	1.4 %	104.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	1.1734 ppm	0.0216 ppm	0.0808 ppm	4.7352 ppm	0.0077 ppm	0.3893 ppm
Concentration per Run 1	0.0024 ppm	1.1718 ppm	0.0226 ppm	0.0814 ppm	4.7267 ppm	0.0104 ppm	0.3885 ppm
Concentration per Run 2	0.0005 ppm	1.1703 ppm	0.0210 ppm	0.0801 ppm	4.7483 ppm	0.0068 ppm	0.3898 ppm
Concentration per Run 3	-0.0019 ppm	1.1782 ppm	0.0211 ppm	0.0810 ppm	4.7307 ppm	0.0059 ppm	0.3895 ppm
Concentration RSD	640.1 %	0.4 %	4.3 %	0.8 %	0.2 %	31.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7653 ppm	109.7669 %	112.3101 %	103.0638 %	**164.8751 %**	**174.7752 %**	**167.6325 %**
Concentration per Run 1	0.7653 ppm	110.0772 %	112.9617 %	102.5149 %	**165.4608 %**	**175.7848 %**	**167.1133 %**
Concentration per Run 2	0.7641 ppm	109.8275 %	112.0506 %	103.8964 %	**165.2210 %**	**174.7879 %**	**168.5547 %**
Concentration per Run 3	0.7664 ppm	109.3961 %	111.9180 %	102.7801 %	**163.9434 %**	**173.7530 %**	**167.2295 %**
Concentration RSD	0.2 %	0.3 %	0.5 %	0.7 %	**0.5 %**	**0.6 %**	**0.5 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-07d2 WG1974066
Analysis started at: 9/24/2024 4:00:05 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	115.0266 ppm	0.0198 ppm	0.0063 ppm	0.5270 ppm	0.0076 ppm	15.5530 ppm
Concentration per Run 1	0.0017 ppm	115.3799 ppm	0.0204 ppm	0.0043 ppm	0.5281 ppm	0.0077 ppm	15.6647 ppm
Concentration per Run 2	0.0013 ppm	115.1641 ppm	0.0187 ppm	0.0077 ppm	0.5255 ppm	0.0075 ppm	15.5343 ppm
Concentration per Run 3	0.0019 ppm	114.5357 ppm	0.0204 ppm	0.0068 ppm	0.5274 ppm	0.0076 ppm	15.4599 ppm
Concentration RSD	18.8 %	0.4 %	4.9 %	28.1 %	0.3 %	1.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.0409 ppm	0.0821 ppm	0.0502 ppm	185.8365 ppm	3.8324 ppm	0.0973 ppm
Concentration per Run 1	0.0013 ppm	0.0405 ppm	0.0813 ppm	0.0504 ppm	186.7086 ppm	3.8643 ppm	0.0993 ppm
Concentration per Run 2	0.0015 ppm	0.0415 ppm	0.0825 ppm	0.0500 ppm	185.3398 ppm	3.8364 ppm	0.0956 ppm
Concentration per Run 3	0.0014 ppm	0.0408 ppm	0.0826 ppm	0.0501 ppm	185.4612 ppm	3.7965 ppm	0.0970 ppm
Concentration RSD	7.1 %	1.3 %	0.9 %	0.4 %	0.4 %	0.9 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.3650 ppm	2.8310 ppm	0.0067 ppm	0.5168 ppm	0.0552 ppm	0.1165 ppm	-0.0026 ppm
Concentration per Run 1	15.2915 ppm	2.8493 ppm	0.0069 ppm	0.5209 ppm	0.0544 ppm	0.1172 ppm	-0.0069 ppm
Concentration per Run 2	15.3527 ppm	2.8271 ppm	0.0062 ppm	0.5205 ppm	0.0552 ppm	0.1164 ppm	0.0010 ppm
Concentration per Run 3	15.4508 ppm	2.8165 ppm	0.0070 ppm	0.5091 ppm	0.0559 ppm	0.1160 ppm	-0.0018 ppm
Concentration RSD	0.5 %	0.6 %	5.8 %	1.3 %	1.3 %	0.5 %	155.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	1.5982 ppm	0.0168 ppm	0.0650 ppm	3.5493 ppm	0.0046 ppm	0.2713 ppm
Concentration per Run 1	-0.0015 ppm	1.6051 ppm	0.0157 ppm	0.0652 ppm	3.5382 ppm	0.0042 ppm	0.2712 ppm
Concentration per Run 2	-0.0034 ppm	1.5897 ppm	0.0179 ppm	0.0647 ppm	3.5451 ppm	0.0055 ppm	0.2712 ppm
Concentration per Run 3	0.0014 ppm	1.6000 ppm	0.0169 ppm	0.0650 ppm	3.5646 ppm	0.0041 ppm	0.2715 ppm
Concentration RSD	213.3 %	0.5 %	6.3 %	0.3 %	0.4 %	17.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5427 ppm	109.7189 %	110.7034 %	103.1996 %	147.4819 %	153.6810 %	148.0406 %
Concentration per Run 1	0.5397 ppm	110.1999 %	111.0541 %	102.5330 %	148.4920 %	154.2466 %	147.2813 %
Concentration per Run 2	0.5456 ppm	109.9687 %	110.2667 %	103.8689 %	147.8356 %	153.2473 %	148.5469 %
Concentration per Run 3	0.5428 ppm	108.9881 %	110.7894 %	103.1969 %	146.1181 %	153.5491 %	148.2936 %
Concentration RSD	0.6 %	0.6 %	0.4 %	0.6 %	0.8 %	0.3 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-08d2 WG1974066
Analysis started at: 9/24/2024 4:04:00 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	72.8938 ppm	0.0141 ppm	0.0041 ppm	0.2232 ppm	0.0033 ppm	9.0482 ppm
Concentration per Run 1	0.0017 ppm	72.7555 ppm	0.0142 ppm	0.0049 ppm	0.2235 ppm	0.0033 ppm	9.0732 ppm
Concentration per Run 2	0.0009 ppm	72.9237 ppm	0.0118 ppm	0.0045 ppm	0.2224 ppm	0.0032 ppm	9.0390 ppm
Concentration per Run 3	0.0011 ppm	73.0022 ppm	0.0162 ppm	0.0031 ppm	0.2237 ppm	0.0032 ppm	9.0323 ppm
Concentration RSD	36.0 %	0.2 %	15.6 %	22.6 %	0.3 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0097 ppm	0.0449 ppm	0.0247 ppm	112.5329 ppm	1.2716 ppm	0.0358 ppm
Concentration per Run 1	0.0014 ppm	0.0099 ppm	0.0443 ppm	0.0242 ppm	112.3150 ppm	1.3054 ppm	0.0360 ppm
Concentration per Run 2	0.0013 ppm	0.0099 ppm	0.0452 ppm	0.0250 ppm	112.7141 ppm	1.2429 ppm	0.0372 ppm
Concentration per Run 3	0.0018 ppm	0.0094 ppm	0.0454 ppm	0.0249 ppm	112.5696 ppm	1.2665 ppm	0.0344 ppm
Concentration RSD	18.2 %	3.0 %	1.3 %	1.8 %	0.2 %	2.5 %	4.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.9465 ppm	0.5333 ppm	0.0064 ppm	0.2462 ppm	0.0256 ppm	0.0895 ppm	-0.0024 ppm
Concentration per Run 1	5.9082 ppm	0.5331 ppm	0.0058 ppm	0.2399 ppm	0.0262 ppm	0.0908 ppm	-0.0003 ppm
Concentration per Run 2	5.9672 ppm	0.5339 ppm	0.0066 ppm	0.2536 ppm	0.0249 ppm	0.0887 ppm	-0.0024 ppm
Concentration per Run 3	5.9640 ppm	0.5330 ppm	0.0067 ppm	0.2452 ppm	0.0258 ppm	0.0890 ppm	-0.0046 ppm
Concentration RSD	0.6 %	0.1 %	7.1 %	2.8 %	2.6 %	1.3 %	88.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0040 ppm	1.3208 ppm	0.0115 ppm	0.0322 ppm	2.5151 ppm	0.0041 ppm	0.1503 ppm
Concentration per Run 1	0.0045 ppm	1.3059 ppm	0.0122 ppm	0.0321 ppm	2.4976 ppm	0.0037 ppm	0.1500 ppm
Concentration per Run 2	0.0014 ppm	1.3261 ppm	0.0120 ppm	0.0321 ppm	2.5265 ppm	0.0031 ppm	0.1506 ppm
Concentration per Run 3	0.0062 ppm	1.3305 ppm	0.0103 ppm	0.0323 ppm	2.5213 ppm	0.0054 ppm	0.1502 ppm
Concentration RSD	61.0 %	1.0 %	8.9 %	0.4 %	0.6 %	28.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2248 ppm	108.6198 %	109.1247 %	104.7347 %	121.0092 %	125.0039 %	122.5417 %
Concentration per Run 1	0.2232 ppm	109.5841 %	108.8807 %	104.7198 %	121.8978 %	124.7638 %	122.8402 %
Concentration per Run 2	0.2262 ppm	108.1028 %	109.7927 %	105.3349 %	120.5898 %	125.5618 %	122.9867 %
Concentration per Run 3	0.2251 ppm	108.1724 %	108.7006 %	104.1494 %	120.5399 %	124.6861 %	121.7982 %
Concentration RSD	0.7 %	0.8 %	0.5 %	0.6 %	0.6 %	0.4 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-09d2 WG1974066
Analysis started at: 9/24/2024 4:07:56 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0013 ppm	94.3798 ppm	0.0298 ppm	0.0101 ppm	0.6202 ppm	0.0095 ppm	35.5535 ppm
Concentration per Run 1	0.0016 ppm	87.4668 ppm	0.0301 ppm	0.0102 ppm	0.5737 ppm	0.0088 ppm	33.1081 ppm
Concentration per Run 2	0.0012 ppm	100.2308 ppm	0.0298 ppm	0.0119 ppm	0.6567 ppm	0.0101 ppm	37.7230 ppm
Concentration per Run 3	0.0010 ppm	95.4418 ppm	0.0296 ppm	0.0083 ppm	0.6302 ppm	0.0096 ppm	35.8293 ppm
Concentration RSD	25.6 %	6.8 %	0.9 %	17.7 %	6.8 %	6.6 %	6.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0185 ppm	0.0619 ppm	0.0671 ppm	62.6330 ppm	2.6578 ppm	0.0747 ppm
Concentration per Run 1	0.0027 ppm	0.0188 ppm	0.0618 ppm	0.0667 ppm	58.0023 ppm	2.4919 ppm	0.0697 ppm
Concentration per Run 2	0.0031 ppm	0.0182 ppm	0.0617 ppm	0.0679 ppm	66.5578 ppm	2.7915 ppm	0.0786 ppm
Concentration per Run 3	0.0028 ppm	0.0186 ppm	0.0621 ppm	0.0666 ppm	63.3389 ppm	2.6898 ppm	0.0758 ppm
Concentration RSD	6.8 %	1.5 %	0.3 %	1.1 %	6.9 %	5.7 %	6.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.6754 ppm	0.6733 ppm	0.0020 ppm	1.3666 ppm	0.0465 ppm	0.0970 ppm	-0.0018 ppm
Concentration per Run 1	11.6694 ppm	0.6276 ppm	0.0020 ppm	1.2755 ppm	0.0467 ppm	0.0987 ppm	-0.0038 ppm
Concentration per Run 2	11.6590 ppm	0.7122 ppm	0.0024 ppm	1.4354 ppm	0.0470 ppm	0.0971 ppm	0.0021 ppm
Concentration per Run 3	11.6980 ppm	0.6802 ppm	0.0017 ppm	1.3888 ppm	0.0458 ppm	0.0952 ppm	-0.0037 ppm
Concentration RSD	0.2 %	6.3 %	16.8 %	6.0 %	1.3 %	1.8 %	186.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.3338 ppm	0.0093 ppm	0.1246 ppm	1.1755 ppm	0.0038 ppm	0.0939 ppm
Concentration per Run 1	0.0000 ppm	1.3262 ppm	0.0096 ppm	0.1157 ppm	1.1782 ppm	0.0041 ppm	0.0935 ppm
Concentration per Run 2	0.0006 ppm	1.3308 ppm	0.0084 ppm	0.1320 ppm	1.1746 ppm	0.0033 ppm	0.0936 ppm
Concentration per Run 3	0.0019 ppm	1.3443 ppm	0.0099 ppm	0.1262 ppm	1.1738 ppm	0.0042 ppm	0.0945 ppm
Concentration RSD	114.1 %	0.7 %	8.4 %	6.6 %	0.2 %	12.8 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3646 ppm	110.2251 %	113.2575 %	105.0874 %	**226.9750 %**	**243.9446 %**	**231.0136 %**
Concentration per Run 1	0.3670 ppm	109.5906 %	120.6510 %	103.8179 %	**225.2975 %**	**249.6190 %**	**228.9123 %**
Concentration per Run 2	0.3651 ppm	110.1888 %	108.2818 %	105.7211 %	**227.5714 %**	**241.5325 %**	**232.4911 %**
Concentration per Run 3	0.3618 ppm	110.8958 %	110.8396 %	105.7231 %	**228.0561 %**	**240.6821 %**	**231.6375 %**
Concentration RSD	0.7 %	0.6 %	5.8 %	1.0 %	**0.6 %**	**2.0 %**	**0.8 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-10d2 WG1974066
Analysis started at: 9/24/2024 4:11:51 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	135.9261 ppm	0.0460 ppm	0.0065 ppm	0.9720 ppm	0.0145 ppm	48.3456 ppm
Concentration per Run 1	0.0018 ppm	135.7832 ppm	0.0452 ppm	0.0078 ppm	0.9682 ppm	0.0145 ppm	48.3044 ppm
Concentration per Run 2	0.0016 ppm	135.4525 ppm	0.0458 ppm	0.0069 ppm	0.9651 ppm	0.0144 ppm	48.2720 ppm
Concentration per Run 3	0.0018 ppm	136.5426 ppm	0.0471 ppm	0.0048 ppm	0.9827 ppm	0.0146 ppm	48.4603 ppm
Concentration RSD	7.7 %	0.4 %	2.1 %	23.8 %	1.0 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0219 ppm	0.0836 ppm	0.0721 ppm	76.0191 ppm	3.3872 ppm	0.0914 ppm
Concentration per Run 1	0.0041 ppm	0.0216 ppm	0.0843 ppm	0.0729 ppm	76.0187 ppm	3.3882 ppm	0.0923 ppm
Concentration per Run 2	0.0041 ppm	0.0222 ppm	0.0828 ppm	0.0717 ppm	75.5131 ppm	3.3925 ppm	0.0908 ppm
Concentration per Run 3	0.0043 ppm	0.0220 ppm	0.0836 ppm	0.0718 ppm	76.5255 ppm	3.3811 ppm	0.0912 ppm
Concentration RSD	3.2 %	1.5 %	0.9 %	0.9 %	0.7 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.5981 ppm	0.8497 ppm	0.0020 ppm	1.0342 ppm	0.0550 ppm	0.1166 ppm	-0.0039 ppm
Concentration per Run 1	13.6181 ppm	0.8496 ppm	0.0021 ppm	1.0419 ppm	0.0556 ppm	0.1185 ppm	-0.0044 ppm
Concentration per Run 2	13.5519 ppm	0.8477 ppm	0.0023 ppm	1.0253 ppm	0.0544 ppm	0.1148 ppm	-0.0057 ppm
Concentration per Run 3	13.6244 ppm	0.8519 ppm	0.0016 ppm	1.0353 ppm	0.0549 ppm	0.1164 ppm	-0.0016 ppm
Concentration RSD	0.3 %	0.2 %	17.2 %	0.8 %	1.1 %	1.6 %	54.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	2.5295 ppm	0.0118 ppm	0.1842 ppm	0.9069 ppm	0.0052 ppm	0.1037 ppm
Concentration per Run 1	0.0037 ppm	2.5552 ppm	0.0112 ppm	0.1843 ppm	0.9095 ppm	0.0032 ppm	0.1040 ppm
Concentration per Run 2	-0.0006 ppm	2.5008 ppm	0.0127 ppm	0.1831 ppm	0.9048 ppm	0.0075 ppm	0.1033 ppm
Concentration per Run 3	0.0009 ppm	2.5326 ppm	0.0116 ppm	0.1852 ppm	0.9064 ppm	0.0048 ppm	0.1038 ppm
Concentration RSD	161.4 %	1.1 %	6.7 %	0.6 %	0.3 %	41.9 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4880 ppm	107.8207 %	109.3969 %	101.1063 %	**267.3950 %**	**287.0107 %**	**272.4377 %**
Concentration per Run 1	0.4920 ppm	107.2947 %	109.4335 %	101.1779 %	**266.3402 %**	**287.3682 %**	**273.3849 %**
Concentration per Run 2	0.4845 ppm	108.1011 %	109.6262 %	100.4400 %	**267.9096 %**	**287.3326 %**	**270.4148 %**
Concentration per Run 3	0.4876 ppm	108.0662 %	109.1311 %	101.7011 %	**267.9350 %**	**286.3312 %**	**273.5135 %**
Concentration RSD	0.8 %	0.4 %	0.2 %	0.6 %	**0.3 %**	**0.2 %**	**0.6 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-11d2 WG1974066
Analysis started at: 9/24/2024 4:15:47 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	149.0165 ppm	0.0340 ppm	0.0106 ppm	0.9578 ppm	0.0113 ppm	43.8470 ppm
Concentration per Run 1	0.0022 ppm	148.7062 ppm	0.0334 ppm	0.0106 ppm	0.9536 ppm	0.0113 ppm	43.6871 ppm
Concentration per Run 2	0.0017 ppm	149.1675 ppm	0.0340 ppm	0.0091 ppm	0.9597 ppm	0.0114 ppm	43.7226 ppm
Concentration per Run 3	0.0015 ppm	149.1758 ppm	0.0345 ppm	0.0122 ppm	0.9602 ppm	0.0113 ppm	44.1312 ppm
Concentration RSD	19.1 %	0.2 %	1.7 %	14.2 %	0.4 %	0.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.0320 ppm	0.1088 ppm	0.1139 ppm	147.4948 ppm	5.6828 ppm	0.1317 ppm
Concentration per Run 1	0.0021 ppm	0.0326 ppm	0.1096 ppm	0.1139 ppm	146.9614 ppm	5.7160 ppm	0.1315 ppm
Concentration per Run 2	0.0023 ppm	0.0326 ppm	0.1086 ppm	0.1137 ppm	147.3641 ppm	5.6759 ppm	0.1306 ppm
Concentration per Run 3	0.0022 ppm	0.0310 ppm	0.1083 ppm	0.1140 ppm	148.1589 ppm	5.6566 ppm	0.1329 ppm
Concentration RSD	4.3 %	2.9 %	0.6 %	0.1 %	0.4 %	0.5 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.5079 ppm	1.0390 ppm	0.0025 ppm	0.8012 ppm	0.0716 ppm	0.1103 ppm	-0.0042 ppm
Concentration per Run 1	22.5651 ppm	1.0369 ppm	0.0026 ppm	0.8040 ppm	0.0726 ppm	0.1093 ppm	-0.0031 ppm
Concentration per Run 2	22.5312 ppm	1.0368 ppm	0.0030 ppm	0.8084 ppm	0.0696 ppm	0.1113 ppm	0.0022 ppm
Concentration per Run 3	22.4272 ppm	1.0434 ppm	0.0018 ppm	0.7912 ppm	0.0726 ppm	0.1103 ppm	-0.0117 ppm
Concentration RSD	0.3 %	0.4 %	23.1 %	1.1 %	2.4 %	0.9 %	165.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	1.9240 ppm	0.0182 ppm	0.1427 ppm	2.6477 ppm	0.0048 ppm	0.2042 ppm
Concentration per Run 1	-0.0014 ppm	1.9312 ppm	0.0179 ppm	0.1420 ppm	2.6521 ppm	0.0047 ppm	0.2044 ppm
Concentration per Run 2	-0.0008 ppm	1.9194 ppm	0.0188 ppm	0.1429 ppm	2.6555 ppm	0.0062 ppm	0.2044 ppm
Concentration per Run 3	0.0024 ppm	1.9212 ppm	0.0179 ppm	0.1433 ppm	2.6354 ppm	0.0035 ppm	0.2037 ppm
Concentration RSD	2,799.8 %	0.3 %	2.9 %	0.5 %	0.4 %	27.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6345 ppm	112.7435 %	114.6200 %	106.1878 %	**243.6350 %**	**259.7488 %**	**248.4935 %**
Concentration per Run 1	0.6405 ppm	113.0121 %	114.6412 %	106.0861 %	**244.8871 %**	**259.6355 %**	**247.6865 %**
Concentration per Run 2	0.6329 ppm	113.0319 %	114.5217 %	105.9379 %	**244.1560 %**	**259.7693 %**	**248.5930 %**
Concentration per Run 3	0.6300 ppm	112.1865 %	114.6970 %	106.5394 %	**241.8618 %**	**259.8416 %**	**249.2011 %**
Concentration RSD	0.9 %	0.4 %	0.1 %	0.3 %	**0.6 %**	**0.0 %**	**0.3 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-12d2 WG1974066
Analysis started at: 9/24/2024 4:19:42 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	107.4193 ppm	0.0246 ppm	0.0057 ppm	0.6228 ppm	0.0084 ppm	24.9055 ppm
Concentration per Run 1	0.0015 ppm	107.2052 ppm	0.0222 ppm	0.0053 ppm	0.6229 ppm	0.0084 ppm	24.9039 ppm
Concentration per Run 2	0.0016 ppm	107.4600 ppm	0.0240 ppm	0.0040 ppm	0.6203 ppm	0.0083 ppm	24.9014 ppm
Concentration per Run 3	0.0021 ppm	107.5927 ppm	0.0276 ppm	0.0078 ppm	0.6253 ppm	0.0085 ppm	24.9112 ppm
Concentration RSD	16.6 %	0.2 %	11.2 %	33.7 %	0.4 %	1.2 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0018 ppm	0.0321 ppm	0.0900 ppm	0.0470 ppm	151.7550 ppm	3.9944 ppm	0.1208 ppm
Concentration per Run 1	0.0019 ppm	0.0325 ppm	0.0906 ppm	0.0472 ppm	151.7156 ppm	3.9761 ppm	0.1213 ppm
Concentration per Run 2	0.0019 ppm	0.0320 ppm	0.0894 ppm	0.0473 ppm	151.1203 ppm	3.9836 ppm	0.1214 ppm
Concentration per Run 3	0.0015 ppm	0.0319 ppm	0.0899 ppm	0.0466 ppm	152.4290 ppm	4.0235 ppm	0.1196 ppm
Concentration RSD	12.6 %	1.0 %	0.6 %	0.8 %	0.4 %	0.6 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	18.6769 ppm	1.4020 ppm	0.0047 ppm	0.6900 ppm	0.0535 ppm	0.0947 ppm	-0.0004 ppm
Concentration per Run 1	18.7327 ppm	1.3970 ppm	0.0051 ppm	0.6957 ppm	0.0544 ppm	0.0943 ppm	0.0004 ppm
Concentration per Run 2	18.7213 ppm	1.4015 ppm	0.0044 ppm	0.6882 ppm	0.0533 ppm	0.0955 ppm	-0.0013 ppm
Concentration per Run 3	18.5767 ppm	1.4074 ppm	0.0046 ppm	0.6861 ppm	0.0528 ppm	0.0943 ppm	-0.0004 ppm
Concentration RSD	0.5 %	0.4 %	7.9 %	0.7 %	1.6 %	0.7 %	194.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	0.7998 ppm	0.0148 ppm	0.0898 ppm	2.6259 ppm	0.0043 ppm	0.2048 ppm
Concentration per Run 1	0.0009 ppm	0.8122 ppm	0.0149 ppm	0.0901 ppm	2.6363 ppm	0.0034 ppm	0.2062 ppm
Concentration per Run 2	0.0008 ppm	0.7988 ppm	0.0146 ppm	0.0893 ppm	2.6253 ppm	0.0035 ppm	0.2048 ppm
Concentration per Run 3	-0.0013 ppm	0.7885 ppm	0.0148 ppm	0.0900 ppm	2.6162 ppm	0.0060 ppm	0.2033 ppm
Concentration RSD	1,034.1 %	1.5 %	1.3 %	0.5 %	0.4 %	34.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5644 ppm	111.0801 %	112.0158 %	104.8792 %	**185.5524 %**	**195.7139 %**	**188.3093 %**
Concentration per Run 1	0.5652 ppm	111.4522 %	111.8340 %	103.7140 %	**186.6226 %**	**195.4160 %**	**186.5673 %**
Concentration per Run 2	0.5642 ppm	109.8501 %	112.2871 %	105.8251 %	**183.4819 %**	**196.3784 %**	**189.3916 %**
Concentration per Run 3	0.5639 ppm	111.9381 %	111.9264 %	105.0984 %	**186.5527 %**	**195.3474 %**	**188.9691 %**
Concentration RSD	0.1 %	1.0 %	0.2 %	1.0 %	**1.0 %**	**0.3 %**	**0.8 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-13d2 WG1974066
Analysis started at: 9/24/2024 4:23:37 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	158.8303 ppm	0.0294 ppm	0.0084 ppm	0.7967 ppm	0.0119 ppm	22.2177 ppm
Concentration per Run 1	0.0032 ppm	158.8936 ppm	0.0293 ppm	0.0079 ppm	0.7949 ppm	0.0119 ppm	22.2010 ppm
Concentration per Run 2	0.0016 ppm	159.1498 ppm	0.0284 ppm	0.0091 ppm	0.7899 ppm	0.0119 ppm	22.2238 ppm
Concentration per Run 3	0.0019 ppm	158.4475 ppm	0.0306 ppm	0.0084 ppm	0.8053 ppm	0.0120 ppm	22.2284 ppm
Concentration RSD	39.3 %	0.2 %	3.8 %	7.0 %	1.0 %	0.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0022 ppm	0.0562 ppm	0.1131 ppm	0.0993 ppm	298.9804 ppm	5.8881 ppm	0.1185 ppm
Concentration per Run 1	0.0026 ppm	0.0559 ppm	0.1127 ppm	0.0994 ppm	298.7891 ppm	5.9219 ppm	0.1193 ppm
Concentration per Run 2	0.0020 ppm	0.0560 ppm	0.1133 ppm	0.0990 ppm	298.4463 ppm	5.8356 ppm	0.1172 ppm
Concentration per Run 3	0.0021 ppm	0.0566 ppm	0.1132 ppm	0.0994 ppm	299.7057 ppm	5.9068 ppm	0.1191 ppm
Concentration RSD	13.7 %	0.7 %	0.3 %	0.2 %	0.2 %	0.8 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.8182 ppm	4.6332 ppm	0.0098 ppm	0.8864 ppm	0.0731 ppm	0.1340 ppm	-0.0082 ppm
Concentration per Run 1	22.7967 ppm	4.6239 ppm	0.0096 ppm	0.8827 ppm	0.0740 ppm	0.1328 ppm	-0.0089 ppm
Concentration per Run 2	22.7942 ppm	4.6373 ppm	0.0094 ppm	0.8840 ppm	0.0736 ppm	0.1338 ppm	-0.0093 ppm
Concentration per Run 3	22.8638 ppm	4.6386 ppm	0.0104 ppm	0.8924 ppm	0.0716 ppm	0.1355 ppm	-0.0064 ppm
Concentration RSD	0.2 %	0.2 %	5.8 %	0.6 %	1.8 %	1.0 %	18.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.5711 ppm	0.0225 ppm	0.0917 ppm	3.8898 ppm	0.0057 ppm	0.3288 ppm
Concentration per Run 1	-0.0001 ppm	0.5660 ppm	0.0218 ppm	0.0916 ppm	3.8895 ppm	0.0046 ppm	0.3275 ppm
Concentration per Run 2	-0.0016 ppm	0.5731 ppm	0.0222 ppm	0.0914 ppm	3.8901 ppm	0.0062 ppm	0.3306 ppm
Concentration per Run 3	-0.0006 ppm	0.5743 ppm	0.0235 ppm	0.0920 ppm	3.8897 ppm	0.0063 ppm	0.3285 ppm
Concentration RSD	92.9 %	0.8 %	3.9 %	0.4 %	0.0 %	16.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7578 ppm	109.6947 %	112.0747 %	102.5434 %	**169.0580 %**	**180.1324 %**	**172.4053 %**
Concentration per Run 1	0.7569 ppm	108.6475 %	111.2641 %	102.6007 %	**167.1069 %**	**179.3197 %**	**171.8457 %**
Concentration per Run 2	0.7609 ppm	110.3293 %	112.9542 %	102.6521 %	**170.6513 %**	**182.1058 %**	**172.2326 %**
Concentration per Run 3	0.7555 ppm	110.1074 %	112.0057 %	102.3774 %	**169.4158 %**	**178.9717 %**	**173.1375 %**
Concentration RSD	0.4 %	0.8 %	0.8 %	0.1 %	**1.1 %**	**1.0 %**	**0.4 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-14d2 WG1974066
Analysis started at: 9/24/2024 4:27:33 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	80.9108 ppm	0.0279 ppm	0.0181 ppm	0.5817 ppm	0.0083 ppm	102.7722 ppm
Concentration per Run 1	0.0012 ppm	80.2455 ppm	0.0264 ppm	0.0163 ppm	0.5801 ppm	0.0083 ppm	102.0905 ppm
Concentration per Run 2	0.0013 ppm	81.4140 ppm	0.0259 ppm	0.0197 ppm	0.5834 ppm	0.0083 ppm	103.3722 ppm
Concentration per Run 3	0.0003 ppm	81.0730 ppm	0.0314 ppm	0.0182 ppm	0.5815 ppm	0.0083 ppm	102.8541 ppm
Concentration RSD	57.6 %	0.7 %	10.8 %	9.5 %	0.3 %	0.1 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0469 ppm	0.0854 ppm	0.0885 ppm	205.1517 ppm	11.7243 ppm	0.0986 ppm
Concentration per Run 1	0.0008 ppm	0.0470 ppm	0.0854 ppm	0.0878 ppm	203.7534 ppm	11.6727 ppm	0.1003 ppm
Concentration per Run 2	0.0011 ppm	0.0469 ppm	0.0856 ppm	0.0898 ppm	205.7607 ppm	11.6896 ppm	0.0984 ppm
Concentration per Run 3	0.0007 ppm	0.0468 ppm	0.0851 ppm	0.0880 ppm	205.9409 ppm	11.8107 ppm	0.0971 ppm
Concentration RSD	25.2 %	0.3 %	0.3 %	1.2 %	0.6 %	0.6 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.3326 ppm	2.5859 ppm	0.0058 ppm	2.4305 ppm	0.0706 ppm	0.0632 ppm	-0.0026 ppm
Concentration per Run 1	34.4109 ppm	2.5721 ppm	0.0052 ppm	2.4171 ppm	0.0713 ppm	0.0622 ppm	-0.0016 ppm
Concentration per Run 2	34.3184 ppm	2.5945 ppm	0.0062 ppm	2.4353 ppm	0.0708 ppm	0.0633 ppm	-0.0063 ppm
Concentration per Run 3	34.2685 ppm	2.5913 ppm	0.0058 ppm	2.4391 ppm	0.0699 ppm	0.0640 ppm	0.0002 ppm
Concentration RSD	0.2 %	0.5 %	8.8 %	0.5 %	1.0 %	1.4 %	131.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.8975 ppm	0.0142 ppm	0.2040 ppm	4.3297 ppm	0.0035 ppm	0.2169 ppm
Concentration per Run 1	-0.0042 ppm	0.9083 ppm	0.0135 ppm	0.2031 ppm	4.3249 ppm	0.0042 ppm	0.2166 ppm
Concentration per Run 2	0.0038 ppm	0.8941 ppm	0.0148 ppm	0.2041 ppm	4.3344 ppm	0.0025 ppm	0.2170 ppm
Concentration per Run 3	0.0017 ppm	0.8901 ppm	0.0143 ppm	0.2046 ppm	4.3297 ppm	0.0039 ppm	0.2170 ppm
Concentration RSD	962.3 %	1.1 %	4.6 %	0.4 %	0.1 %	26.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5728 ppm	108.3037 %	111.4538 %	102.2496 %	**198.7071 %**	**214.9927 %**	**202.8240 %**
Concentration per Run 1	0.5734 ppm	108.3481 %	111.8037 %	102.7901 %	**198.8023 %**	**214.6098 %**	**203.1780 %**
Concentration per Run 2	0.5721 ppm	108.1613 %	111.7399 %	101.9604 %	**199.0645 %**	**216.1878 %**	**202.9424 %**
Concentration per Run 3	0.5729 ppm	108.4017 %	110.8177 %	101.9984 %	**198.2544 %**	**214.1804 %**	**202.3514 %**
Concentration RSD	0.1 %	0.1 %	0.5 %	0.5 %	**0.2 %**	**0.5 %**	**0.2 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 4:31:29 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5105 ppm	0.4918 ppm	0.4850 ppm	0.4950 ppm	0.4915 ppm	0.5088 ppm	0.4913 ppm
Concentration per Run 1	0.5100 ppm	0.4888 ppm	0.4868 ppm	0.4893 ppm	0.4900 ppm	0.5063 ppm	0.4908 ppm
Concentration per Run 2	0.5107 ppm	0.5009 ppm	0.4873 ppm	0.4944 ppm	0.4954 ppm	0.5112 ppm	0.4922 ppm
Concentration per Run 3	0.5108 ppm	0.4858 ppm	0.4810 ppm	0.5014 ppm	0.4891 ppm	0.5089 ppm	0.4909 ppm
Recovery Percentage 1	102.098 %	98.362 %	97.008 %	99.009 %	98.295 %	101.761 %	98.257 %
Concentration RSD	0.1 %	1.6 %	0.7 %	1.2 %	0.7 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5029 ppm	0.5107 ppm	0.4859 ppm	0.4910 ppm	0.5124 ppm	5.1152 ppm	0.4885 ppm
Concentration per Run 1	0.4992 ppm	0.5075 ppm	0.4853 ppm	0.4880 ppm	0.5106 ppm	5.1146 ppm	0.4874 ppm
Concentration per Run 2	0.5029 ppm	0.5119 ppm	0.4851 ppm	0.4931 ppm	0.5156 ppm	5.0990 ppm	0.4879 ppm
Concentration per Run 3	0.5065 ppm	0.5126 ppm	0.4872 ppm	0.4919 ppm	0.5111 ppm	5.1321 ppm	0.4900 ppm
Recovery Percentage 1	100.576 %	102.131 %	97.174 %	98.195 %	102.485 %	102.304 %	97.691 %
Concentration RSD	0.7 %	0.5 %	0.2 %	0.5 %	0.5 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4874 ppm	0.4861 ppm	0.4913 ppm	9.9243 ppm	0.5031 ppm	0.4976 ppm	0.5007 ppm
Concentration per Run 1	0.4836 ppm	0.4836 ppm	0.4869 ppm	9.9053 ppm	0.5029 ppm	0.4943 ppm	0.4985 ppm
Concentration per Run 2	0.4890 ppm	0.4884 ppm	0.4916 ppm	10.0210 ppm	0.5031 ppm	0.4993 ppm	0.5061 ppm
Concentration per Run 3	0.4895 ppm	0.4861 ppm	0.4955 ppm	9.8466 ppm	0.5034 ppm	0.4994 ppm	0.4976 ppm
Recovery Percentage 1	97.480 %	97.212 %	98.263 %	99.243 %	100.621 %	99.530 %	100.145 %
Concentration RSD	0.7 %	0.5 %	0.9 %	0.9 %	0.0 %	0.6 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4958 ppm	5.3012 ppm	0.4768 ppm	0.4745 ppm	0.4984 ppm	0.5030 ppm	0.4813 ppm
Concentration per Run 1	0.4955 ppm	5.2620 ppm	0.4731 ppm	0.4720 ppm	0.4975 ppm	0.5025 ppm	0.4808 ppm
Concentration per Run 2	0.4979 ppm	5.3107 ppm	0.4759 ppm	0.4770 ppm	0.4977 ppm	0.5032 ppm	0.4826 ppm
Concentration per Run 3	0.4941 ppm	5.3309 ppm	0.4813 ppm	0.4744 ppm	0.4999 ppm	0.5032 ppm	0.4804 ppm
Recovery Percentage 1	99.170 %	100.975 %	95.356 %	94.893 %	99.674 %	100.599 %	96.250 %
Concentration RSD	0.4 %	0.7 %	0.9 %	0.5 %	0.3 %	0.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4988 ppm	105.0684 %	103.7488 %	102.5047 %	102.6873 %	103.8126 %	102.5069 %
Concentration per Run 1	0.4985 ppm	105.3014 %	104.1589 %	103.3602 %	102.8249 %	104.1193 %	103.2193 %
Concentration per Run 2	0.4981 ppm	105.1656 %	103.3140 %	101.7900 %	103.0433 %	103.7957 %	101.7643 %
Concentration per Run 3	0.4998 ppm	104.7382 %	103.7735 %	102.3640 %	102.1936 %	103.5227 %	102.5373 %
Recovery Percentage 1	99.760 %						
Concentration RSD	0.2 %	0.3 %	0.4 %	0.8 %	0.4 %	0.3 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 4:35:23 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0131 ppm	0.0026 ppm	0.0012 ppm	-0.0002 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	0.0008 ppm	0.0116 ppm	0.0027 ppm	0.0019 ppm	-0.0002 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 2	0.0005 ppm	0.0097 ppm	0.0033 ppm	0.0023 ppm	-0.0003 ppm	0.0001 ppm	-0.0055 ppm
Concentration per Run 3	0.0005 ppm	0.0181 ppm	0.0019 ppm	-0.0005 ppm	-0.0002 ppm	0.0000 ppm	-0.0006 ppm
Recovery Percentage 1	8.588 %	13.146 %	52.588 %	4.143 %	-2.309 %	0.873 %	-1.124 %
Concentration RSD	23.9 %	33.3 %	28.2 %	121.5 %	17.4 %	90.1 %	370.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0067 ppm	-0.0201 ppm	0.0012 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0074 ppm	0.0224 ppm	0.0022 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0067 ppm	-0.0315 ppm	0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0060 ppm	-0.0513 ppm	0.0008 ppm
Recovery Percentage 1	1.773 %	-1.133 %	-0.396 %	2.055 %	13.385 %	-0.806 %	23.149 %
Concentration RSD	84.0 %	36.9 %	713.1 %	96.4 %	9.8 %	189.5 %	78.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0000 ppm	0.0013 ppm	0.0012 ppm	0.0003 ppm	-0.0005 ppm	-0.0019 ppm
Concentration per Run 1	-0.0031 ppm	-0.0002 ppm	0.0015 ppm	0.0075 ppm	0.0014 ppm	-0.0004 ppm	-0.0076 ppm
Concentration per Run 2	0.0007 ppm	-0.0001 ppm	0.0013 ppm	-0.0042 ppm	-0.0007 ppm	-0.0010 ppm	0.0014 ppm
Concentration per Run 3	-0.0014 ppm	0.0001 ppm	0.0012 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm
Recovery Percentage 1	-1.279 %	-0.394 %	2.694 %	0.061 %	1.246 %	-4.685 %	-3.750 %
Concentration RSD	152.0 %	402.9 %	11.9 %	479.0 %	334.8 %	111.9 %	263.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0017 ppm	-0.0011 ppm	-0.0017 ppm	0.0001 ppm	0.0006 ppm	0.0012 ppm	-0.0005 ppm
Concentration per Run 1	-0.0011 ppm	0.0003 ppm	-0.0018 ppm	0.0002 ppm	0.0006 ppm	0.0017 ppm	-0.0005 ppm
Concentration per Run 2	-0.0023 ppm	-0.0028 ppm	-0.0025 ppm	0.0001 ppm	0.0005 ppm	0.0014 ppm	-0.0008 ppm
Concentration per Run 3	-0.0017 ppm	-0.0009 ppm	-0.0010 ppm	0.0000 ppm	0.0008 ppm	0.0005 ppm	-0.0002 ppm
Recovery Percentage 1	-16.809 %	-0.225 %	-3.480 %	0.949 %	6.412 %	6.037 %	-5.019 %
Concentration RSD	35.2 %	139.3 %	42.4 %	81.8 %	20.1 %	51.7 %	60.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	103.9007 %	102.5652 %	102.8153 %	103.3162 %	103.9121 %	103.4667 %
Concentration per Run 1	-0.0016 ppm	103.9112 %	103.1879 %	102.4279 %	103.1218 %	104.7385 %	102.9114 %
Concentration per Run 2	-0.0016 ppm	104.6584 %	102.6559 %	102.7166 %	104.1552 %	104.0514 %	103.4669 %
Concentration per Run 3	-0.0017 ppm	103.1324 %	101.8519 %	103.3013 %	102.6716 %	102.9464 %	104.0219 %
Recovery Percentage 1	-32.566 %						
Concentration RSD	5.2 %	0.7 %	0.7 %	0.4 %	0.7 %	0.9 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974891-1 WG1974891
Analysis started at: 9/24/2024 4:40:43 PM
Rack 2
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.3377 ppm	**0.0030 ppm**	-0.0001 ppm	0.0019 ppm	0.0000 ppm	0.1063 ppm
Concentration per Run 1	-0.0003 ppm	0.3456 ppm	0.0000 ppm	-0.0021 ppm	0.0018 ppm	0.0000 ppm	0.1068 ppm
Concentration per Run 2	0.0008 ppm	0.3307 ppm	0.0038 ppm	0.0022 ppm	0.0020 ppm	0.0000 ppm	0.1072 ppm
Concentration per Run 3	0.0007 ppm	0.3367 ppm	0.0053 ppm	-0.0003 ppm	0.0019 ppm	0.0000 ppm	0.1048 ppm
Concentration RSD	150.4 %	2.2 %	**90.5 %**	2,711.4 %	6.2 %	1,121.7 %	1.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0007 ppm	0.4539 ppm	0.1189 ppm	0.0015 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0008 ppm	0.4487 ppm	0.0982 ppm	0.0014 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0007 ppm	0.4505 ppm	0.1096 ppm	0.0018 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	-0.0002 ppm	0.0006 ppm	0.4623 ppm	0.1488 ppm	0.0012 ppm
Concentration RSD	91.0 %	145.6 %	280.2 %	8.4 %	1.6 %	22.3 %	18.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.1396 ppm	0.0071 ppm	0.0004 ppm	0.0026 ppm	0.0004 ppm	0.0001 ppm	-0.0039 ppm
Concentration per Run 1	0.1434 ppm	0.0070 ppm	0.0007 ppm	-0.0043 ppm	0.0004 ppm	-0.0013 ppm	-0.0075 ppm
Concentration per Run 2	0.1452 ppm	0.0072 ppm	0.0006 ppm	0.0004 ppm	0.0005 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 3	0.1302 ppm	0.0071 ppm	-0.0001 ppm	0.0117 ppm	0.0003 ppm	0.0007 ppm	-0.0045 ppm
Concentration RSD	5.9 %	1.5 %	119.1 %	318.1 %	27.1 %	1,198.4 %	98.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	0.2430 ppm	-0.0011 ppm	0.0005 ppm	0.0245 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	-0.0011 ppm	0.2527 ppm	-0.0003 ppm	0.0005 ppm	0.0256 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 2	-0.0005 ppm	0.2530 ppm	-0.0015 ppm	0.0006 ppm	0.0255 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0026 ppm	0.2234 ppm	-0.0016 ppm	0.0005 ppm	0.0224 ppm	0.0004 ppm	0.0004 ppm
Concentration RSD	608.8 %	7.0 %	64.9 %	15.7 %	7.2 %	362.4 %	91.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	108.0609 %	104.6281 %	101.3846 %	106.3226 %	104.9241 %	101.6198 %
Concentration per Run 1	0.0001 ppm	104.6806 %	105.2923 %	100.6220 %	102.9202 %	105.8868 %	102.1680 %
Concentration per Run 2	0.0001 ppm	104.1290 %	104.5933 %	100.2237 %	102.6167 %	104.6033 %	100.4359 %
Concentration per Run 3	0.0001 ppm	115.3731 %	103.9987 %	103.3079 %	113.4308 %	104.2822 %	102.2555 %
Concentration RSD	14.7 %	5.9 %	0.6 %	1.7 %	5.8 %	0.8 %	1.0 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974891-2d2 WG1974891
Analysis started at: 9/24/2024 4:44:53 PM
Rack 2
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3289 ppm	18.1979 ppm	1.2187 ppm	0.9071 ppm	1.0422 ppm	0.6640 ppm	19.6678 ppm
Concentration per Run 1	0.3288 ppm	18.2614 ppm	1.2219 ppm	0.9027 ppm	1.0415 ppm	0.6611 ppm	19.7347 ppm
Concentration per Run 2	0.3286 ppm	18.1649 ppm	1.2182 ppm	0.9035 ppm	1.0419 ppm	0.6644 ppm	19.6603 ppm
Concentration per Run 3	0.3294 ppm	18.1674 ppm	1.2161 ppm	0.9151 ppm	1.0432 ppm	0.6666 ppm	19.6084 ppm
Concentration RSD	0.1 %	0.3 %	0.2 %	0.8 %	0.1 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8283 ppm	0.3258 ppm	0.7047 ppm	0.8152 ppm	23.3977 ppm	4.1989 ppm	0.5060 ppm
Concentration per Run 1	0.8308 ppm	0.3256 ppm	0.7035 ppm	0.8122 ppm	23.2775 ppm	4.1491 ppm	0.5090 ppm
Concentration per Run 2	0.8237 ppm	0.3236 ppm	0.7039 ppm	0.8160 ppm	23.4023 ppm	4.2098 ppm	0.5039 ppm
Concentration per Run 3	0.8303 ppm	0.3280 ppm	0.7068 ppm	0.8175 ppm	23.5132 ppm	4.2378 ppm	0.5050 ppm
Concentration RSD	0.5 %	0.7 %	0.3 %	0.3 %	0.5 %	1.1 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.7985 ppm	2.0651 ppm	0.5492 ppm	6.6934 ppm	1.2477 ppm	0.3689 ppm	0.8522 ppm
Concentration per Run 1	5.7982 ppm	2.0600 ppm	0.5438 ppm	6.7408 ppm	1.2428 ppm	0.3700 ppm	0.8503 ppm
Concentration per Run 2	5.8006 ppm	2.0614 ppm	0.5492 ppm	6.6661 ppm	1.2480 ppm	0.3666 ppm	0.8509 ppm
Concentration per Run 3	5.7967 ppm	2.0739 ppm	0.5547 ppm	6.6732 ppm	1.2525 ppm	0.3701 ppm	0.8555 ppm
Concentration RSD	0.0 %	0.4 %	1.0 %	0.6 %	0.4 %	0.5 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6541 ppm	0.9891 ppm	0.2917 ppm	0.4903 ppm	1.0577 ppm	0.8165 ppm	0.3976 ppm
Concentration per Run 1	0.6512 ppm	0.9946 ppm	0.2911 ppm	0.4902 ppm	1.0570 ppm	0.8179 ppm	0.3981 ppm
Concentration per Run 2	0.6538 ppm	0.9874 ppm	0.2893 ppm	0.4899 ppm	1.0563 ppm	0.8125 ppm	0.3971 ppm
Concentration per Run 3	0.6574 ppm	0.9854 ppm	0.2946 ppm	0.4908 ppm	1.0598 ppm	0.8191 ppm	0.3975 ppm
Concentration RSD	0.5 %	0.5 %	0.9 %	0.1 %	0.2 %	0.4 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6484 ppm	106.0947 %	106.1951 %	102.5321 %	109.3377 %	112.5432 %	109.3443 %
Concentration per Run 1	0.6462 ppm	106.3296 %	106.5214 %	102.9601 %	109.4156 %	113.3193 %	109.6610 %
Concentration per Run 2	0.6471 ppm	106.3941 %	105.3870 %	102.3467 %	109.6566 %	111.2118 %	108.9844 %
Concentration per Run 3	0.6519 ppm	105.5604 %	106.6768 %	102.2894 %	108.9408 %	113.0986 %	109.3876 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.4 %	0.3 %	1.0 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974891-3d2 WG1974891
Analysis started at: 9/24/2024 4:48:48 PM
Rack 2
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.3183 ppm	17.0888 ppm	1.1765 ppm	0.8804 ppm	1.0988 ppm	0.6440 ppm	18.8113 ppm
Concentration per Run 1	0.3189 ppm	17.0856 ppm	1.1723 ppm	0.8830 ppm	1.1041 ppm	0.6470 ppm	18.8598 ppm
Concentration per Run 2	0.3190 ppm	17.1197 ppm	1.1749 ppm	0.8758 ppm	1.0977 ppm	0.6430 ppm	18.8448 ppm
Concentration per Run 3	0.3171 ppm	17.0610 ppm	1.1825 ppm	0.8825 ppm	1.0945 ppm	0.6419 ppm	18.7291 ppm
Concentration RSD	0.3 %	0.2 %	0.5 %	0.5 %	0.4 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.8232 ppm	0.3151 ppm	0.6764 ppm	0.7803 ppm	22.1083 ppm	3.9938 ppm	0.4851 ppm
Concentration per Run 1	0.8241 ppm	0.3148 ppm	0.6804 ppm	0.7772 ppm	22.1914 ppm	4.0007 ppm	0.4888 ppm
Concentration per Run 2	0.8291 ppm	0.3178 ppm	0.6749 ppm	0.7796 ppm	22.0897 ppm	4.0157 ppm	0.4833 ppm
Concentration per Run 3	0.8164 ppm	0.3127 ppm	0.6740 ppm	0.7839 ppm	22.0437 ppm	3.9648 ppm	0.4831 ppm
Concentration RSD	0.8 %	0.8 %	0.5 %	0.4 %	0.3 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.5366 ppm	2.0211 ppm	0.5336 ppm	6.6175 ppm	1.2000 ppm	0.3613 ppm	0.8354 ppm
Concentration per Run 1	5.5423 ppm	2.0229 ppm	0.5319 ppm	6.6229 ppm	1.2105 ppm	0.3590 ppm	0.8287 ppm
Concentration per Run 2	5.5417 ppm	2.0206 ppm	0.5341 ppm	6.6426 ppm	1.1954 ppm	0.3608 ppm	0.8424 ppm
Concentration per Run 3	5.5257 ppm	2.0197 ppm	0.5348 ppm	6.5870 ppm	1.1942 ppm	0.3641 ppm	0.8349 ppm
Concentration RSD	0.2 %	0.1 %	0.3 %	0.4 %	0.8 %	0.7 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.6334 ppm	1.2568 ppm	0.2837 ppm	0.4908 ppm	1.0424 ppm	0.8137 ppm	0.3824 ppm
Concentration per Run 1	0.6288 ppm	1.2629 ppm	0.2843 ppm	0.4926 ppm	1.0444 ppm	0.8095 ppm	0.3818 ppm
Concentration per Run 2	0.6344 ppm	1.2640 ppm	0.2831 ppm	0.4909 ppm	1.0435 ppm	0.8178 ppm	0.3823 ppm
Concentration per Run 3	0.6371 ppm	1.2435 ppm	0.2838 ppm	0.4890 ppm	1.0393 ppm	0.8139 ppm	0.3832 ppm
Concentration RSD	0.7 %	0.9 %	0.2 %	0.4 %	0.3 %	0.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6254 ppm	105.9932 %	106.9319 %	101.9815 %	108.9858 %	113.3509 %	108.8403 %
Concentration per Run 1	0.6296 ppm	105.3052 %	106.5111 %	102.1442 %	108.1413 %	112.8412 %	109.0061 %
Concentration per Run 2	0.6253 ppm	106.2472 %	107.4201 %	102.4413 %	109.2254 %	114.2423 %	109.3853 %
Concentration per Run 3	0.6213 ppm	106.4271 %	106.8646 %	101.3588 %	109.5908 %	112.9692 %	108.1294 %
Concentration RSD	0.7 %	0.6 %	0.4 %	0.5 %	0.7 %	0.7 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453184-01d2 WG1974891
Analysis started at: 9/24/2024 4:52:44 PM
Rack 2
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	95.2653 ppm	0.7610 ppm	0.0017 ppm	0.4737 ppm	0.0072 ppm	22.7177 ppm
Concentration per Run 1	0.0015 ppm	94.9029 ppm	0.7573 ppm	0.0015 ppm	0.4734 ppm	0.0072 ppm	22.5931 ppm
Concentration per Run 2	0.0007 ppm	95.1591 ppm	0.7626 ppm	0.0017 ppm	0.4762 ppm	0.0073 ppm	22.7585 ppm
Concentration per Run 3	0.0012 ppm	95.7339 ppm	0.7631 ppm	0.0019 ppm	0.4715 ppm	0.0072 ppm	22.8016 ppm
Concentration RSD	36.7 %	0.4 %	0.4 %	12.3 %	0.5 %	0.8 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0637 ppm	0.1990 ppm	0.1363 ppm	154.2257 ppm	28.6771 ppm	0.2018 ppm
Concentration per Run 1	0.0006 ppm	0.0639 ppm	0.1979 ppm	0.1369 ppm	153.8631 ppm	28.6422 ppm	0.2015 ppm
Concentration per Run 2	0.0007 ppm	0.0636 ppm	0.1988 ppm	0.1359 ppm	154.6504 ppm	28.8178 ppm	0.2031 ppm
Concentration per Run 3	0.0008 ppm	0.0636 ppm	0.2002 ppm	0.1363 ppm	154.1637 ppm	28.5714 ppm	0.2008 ppm
Concentration RSD	11.0 %	0.3 %	0.6 %	0.4 %	0.3 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.8705 ppm	3.2767 ppm	0.0051 ppm	1.1381 ppm	0.1467 ppm	0.0793 ppm	0.0064 ppm
Concentration per Run 1	37.7619 ppm	3.2740 ppm	0.0050 ppm	1.1332 ppm	0.1462 ppm	0.0796 ppm	0.0033 ppm
Concentration per Run 2	37.9199 ppm	3.2720 ppm	0.0046 ppm	1.1436 ppm	0.1462 ppm	0.0787 ppm	0.0082 ppm
Concentration per Run 3	37.9296 ppm	3.2840 ppm	0.0058 ppm	1.1375 ppm	0.1478 ppm	0.0797 ppm	0.0077 ppm
Concentration RSD	0.2 %	0.2 %	11.4 %	0.5 %	0.7 %	0.7 %	42.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	0.8741 ppm	0.0091 ppm	0.1097 ppm	5.5490 ppm	0.0061 ppm	0.2253 ppm
Concentration per Run 1	0.0017 ppm	0.8684 ppm	0.0096 ppm	0.1094 ppm	5.5288 ppm	0.0068 ppm	0.2251 ppm
Concentration per Run 2	0.0032 ppm	0.8724 ppm	0.0097 ppm	0.1103 ppm	5.5496 ppm	0.0058 ppm	0.2247 ppm
Concentration per Run 3	-0.0026 ppm	0.8816 ppm	0.0080 ppm	0.1094 ppm	5.5686 ppm	0.0057 ppm	0.2259 ppm
Concentration RSD	395.4 %	0.8 %	10.7 %	0.5 %	0.4 %	9.6 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3646 ppm	109.0202 %	111.7514 %	104.9705 %	124.2289 %	131.7909 %	126.2695 %
Concentration per Run 1	0.3643 ppm	109.0374 %	111.8980 %	105.5702 %	124.6587 %	131.4587 %	126.9265 %
Concentration per Run 2	0.3631 ppm	108.7325 %	111.3345 %	105.0807 %	123.7666 %	131.3555 %	126.3455 %
Concentration per Run 3	0.3665 ppm	109.2907 %	112.0219 %	104.2606 %	124.2616 %	132.5587 %	125.5366 %
Concentration RSD	0.5 %	0.3 %	0.3 %	0.6 %	0.4 %	0.5 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453184-02d2 WG1974891
Analysis started at: 9/24/2024 4:56:39 PM
Rack 2
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	62.4022 ppm	0.7605 ppm	0.0015 ppm	0.3260 ppm	0.0064 ppm	29.8901 ppm
Concentration per Run 1	0.0004 ppm	62.0571 ppm	0.7582 ppm	0.0014 ppm	0.3240 ppm	0.0064 ppm	29.7789 ppm
Concentration per Run 2	0.0013 ppm	62.5145 ppm	0.7601 ppm	0.0024 ppm	0.3262 ppm	0.0064 ppm	29.9263 ppm
Concentration per Run 3	0.0007 ppm	62.6350 ppm	0.7631 ppm	0.0006 ppm	0.3278 ppm	0.0064 ppm	29.9650 ppm
Concentration RSD	58.1 %	0.5 %	0.3 %	59.8 %	0.6 %	0.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0474 ppm	0.1408 ppm	0.0932 ppm	122.3132 ppm	18.9901 ppm	0.1219 ppm
Concentration per Run 1	0.0005 ppm	0.0474 ppm	0.1397 ppm	0.0931 ppm	121.4797 ppm	19.0309 ppm	0.1214 ppm
Concentration per Run 2	0.0008 ppm	0.0470 ppm	0.1423 ppm	0.0932 ppm	122.1183 ppm	18.9599 ppm	0.1217 ppm
Concentration per Run 3	0.0004 ppm	0.0480 ppm	0.1404 ppm	0.0932 ppm	123.3416 ppm	18.9796 ppm	0.1228 ppm
Concentration RSD	33.0 %	1.1 %	0.9 %	0.1 %	0.8 %	0.2 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.0840 ppm	3.3934 ppm	0.0042 ppm	0.8901 ppm	0.0968 ppm	0.0723 ppm	0.0003 ppm
Concentration per Run 1	25.9955 ppm	3.3899 ppm	0.0043 ppm	0.8874 ppm	0.0958 ppm	0.0727 ppm	-0.0032 ppm
Concentration per Run 2	26.1727 ppm	3.3855 ppm	0.0039 ppm	0.8893 ppm	0.0979 ppm	0.0717 ppm	0.0017 ppm
Concentration per Run 3	26.0838 ppm	3.4049 ppm	0.0042 ppm	0.8937 ppm	0.0968 ppm	0.0726 ppm	0.0024 ppm
Concentration RSD	0.3 %	0.3 %	4.9 %	0.4 %	1.1 %	0.8 %	1,033.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	0.8197 ppm	0.0051 ppm	0.1150 ppm	3.7353 ppm	0.0037 ppm	0.1512 ppm
Concentration per Run 1	-0.0010 ppm	0.8025 ppm	0.0046 ppm	0.1144 ppm	3.7161 ppm	0.0036 ppm	0.1514 ppm
Concentration per Run 2	-0.0007 ppm	0.8204 ppm	0.0054 ppm	0.1148 ppm	3.7603 ppm	0.0042 ppm	0.1511 ppm
Concentration per Run 3	0.0030 ppm	0.8362 ppm	0.0053 ppm	0.1156 ppm	3.7295 ppm	0.0033 ppm	0.1511 ppm
Concentration RSD	557.4 %	2.1 %	8.4 %	0.5 %	0.6 %	13.0 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2787 ppm	106.9677 %	108.0550 %	102.8580 %	123.6140 %	129.1093 %	125.2215 %
Concentration per Run 1	0.2775 ppm	107.1610 %	108.6361 %	103.6059 %	123.9555 %	129.6983 %	126.0650 %
Concentration per Run 2	0.2807 ppm	106.2018 %	107.5449 %	102.4822 %	122.6633 %	128.5471 %	124.5887 %
Concentration per Run 3	0.2780 ppm	107.5405 %	107.9839 %	102.4861 %	124.2232 %	129.0825 %	125.0107 %
Concentration RSD	0.6 %	0.6 %	0.5 %	0.6 %	0.7 %	0.4 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453184-03d2 WG1974891
Analysis started at: 9/24/2024 5:00:34 PM
Rack 2
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	84.2041 ppm	0.2964 ppm	0.0014 ppm	0.4320 ppm	0.0061 ppm	22.2669 ppm
Concentration per Run 1	0.0014 ppm	84.1325 ppm	0.2980 ppm	0.0026 ppm	0.4295 ppm	0.0060 ppm	22.2065 ppm
Concentration per Run 2	0.0011 ppm	84.4311 ppm	0.2935 ppm	0.0022 ppm	0.4345 ppm	0.0062 ppm	22.3531 ppm
Concentration per Run 3	0.0001 ppm	84.0486 ppm	0.2975 ppm	-0.0006 ppm	0.4321 ppm	0.0061 ppm	22.2411 ppm
Concentration RSD	76.8 %	0.2 %	0.8 %	125.6 %	0.6 %	1.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0587 ppm	0.1752 ppm	0.1331 ppm	144.3959 ppm	27.2419 ppm	0.1714 ppm
Concentration per Run 1	0.0006 ppm	0.0587 ppm	0.1764 ppm	0.1330 ppm	143.7294 ppm	27.1532 ppm	0.1720 ppm
Concentration per Run 2	0.0006 ppm	0.0584 ppm	0.1755 ppm	0.1333 ppm	145.0450 ppm	27.2616 ppm	0.1724 ppm
Concentration per Run 3	0.0006 ppm	0.0588 ppm	0.1738 ppm	0.1329 ppm	144.4135 ppm	27.3111 ppm	0.1698 ppm
Concentration RSD	0.7 %	0.4 %	0.8 %	0.2 %	0.5 %	0.3 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.4540 ppm	3.1053 ppm	0.0035 ppm	1.0505 ppm	0.1389 ppm	0.0652 ppm	-0.0013 ppm
Concentration per Run 1	34.5193 ppm	3.1020 ppm	0.0036 ppm	1.0432 ppm	0.1404 ppm	0.0649 ppm	-0.0041 ppm
Concentration per Run 2	34.4886 ppm	3.1028 ppm	0.0035 ppm	1.0632 ppm	0.1377 ppm	0.0658 ppm	0.0004 ppm
Concentration per Run 3	34.3540 ppm	3.1110 ppm	0.0035 ppm	1.0451 ppm	0.1384 ppm	0.0650 ppm	-0.0001 ppm
Concentration RSD	0.3 %	0.2 %	1.3 %	1.1 %	1.0 %	0.8 %	196.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0025 ppm	0.4797 ppm	0.0057 ppm	0.1006 ppm	4.7888 ppm	0.0052 ppm	0.2127 ppm
Concentration per Run 1	-0.0038 ppm	0.4783 ppm	0.0057 ppm	0.1003 ppm	4.8038 ppm	0.0052 ppm	0.2133 ppm
Concentration per Run 2	-0.0032 ppm	0.4813 ppm	0.0052 ppm	0.1011 ppm	4.7976 ppm	0.0056 ppm	0.2128 ppm
Concentration per Run 3	-0.0004 ppm	0.4795 ppm	0.0064 ppm	0.1004 ppm	4.7651 ppm	0.0050 ppm	0.2121 ppm
Concentration RSD	73.3 %	0.3 %	10.2 %	0.4 %	0.4 %	6.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3311 ppm	108.5009 %	110.4316 %	103.9844 %	122.7181 %	128.9608 %	123.9972 %
Concentration per Run 1	0.3327 ppm	107.4309 %	111.2797 %	103.9686 %	121.3072 %	130.0860 %	124.1794 %
Concentration per Run 2	0.3314 ppm	109.1208 %	109.8144 %	104.8436 %	123.3499 %	128.5686 %	124.6946 %
Concentration per Run 3	0.3293 ppm	108.9510 %	110.2008 %	103.1410 %	123.4972 %	128.2279 %	123.1177 %
Concentration RSD	0.5 %	0.9 %	0.7 %	0.8 %	1.0 %	0.8 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453184-04d2 WG1974891
Analysis started at: 9/24/2024 5:04:30 PM
Rack 2
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0007 ppm	34.1225 ppm	0.0383 ppm	0.0007 ppm	0.1320 ppm	0.0018 ppm	5.0094 ppm
Concentration per Run 1	0.0008 ppm	34.1695 ppm	0.0372 ppm	0.0036 ppm	0.1327 ppm	0.0017 ppm	5.0202 ppm
Concentration per Run 2	0.0010 ppm	34.3481 ppm	0.0398 ppm	-0.0012 ppm	0.1317 ppm	0.0018 ppm	5.0142 ppm
Concentration per Run 3	0.0003 ppm	33.8499 ppm	0.0379 ppm	-0.0003 ppm	0.1315 ppm	0.0018 ppm	4.9937 ppm
Concentration RSD	49.3 %	0.7 %	3.5 %	359.3 %	0.5 %	3.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0125 ppm	0.0657 ppm	0.0550 ppm	61.0560 ppm	6.7279 ppm	0.0689 ppm
Concentration per Run 1	0.0002 ppm	0.0128 ppm	0.0654 ppm	0.0545 ppm	60.9738 ppm	6.7581 ppm	0.0713 ppm
Concentration per Run 2	0.0002 ppm	0.0120 ppm	0.0656 ppm	0.0556 ppm	61.3690 ppm	6.7419 ppm	0.0672 ppm
Concentration per Run 3	0.0002 ppm	0.0128 ppm	0.0660 ppm	0.0550 ppm	60.8251 ppm	6.6836 ppm	0.0681 ppm
Concentration RSD	16.6 %	3.6 %	0.5 %	1.0 %	0.5 %	0.6 %	3.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	12.7759 ppm	0.5711 ppm	0.0035 ppm	0.3724 ppm	0.0378 ppm	0.0214 ppm	0.0005 ppm
Concentration per Run 1	12.6762 ppm	0.5727 ppm	0.0030 ppm	0.3704 ppm	0.0370 ppm	0.0209 ppm	0.0016 ppm
Concentration per Run 2	12.8020 ppm	0.5709 ppm	0.0035 ppm	0.3708 ppm	0.0383 ppm	0.0224 ppm	-0.0011 ppm
Concentration per Run 3	12.8496 ppm	0.5698 ppm	0.0040 ppm	0.3760 ppm	0.0381 ppm	0.0209 ppm	0.0011 ppm
Concentration RSD	0.7 %	0.3 %	13.8 %	0.8 %	1.8 %	4.1 %	271.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.6460 ppm	0.0005 ppm	0.0319 ppm	1.8604 ppm	0.0022 ppm	0.0833 ppm
Concentration per Run 1	-0.0031 ppm	0.6337 ppm	0.0007 ppm	0.0321 ppm	1.8307 ppm	0.0015 ppm	0.0835 ppm
Concentration per Run 2	-0.0002 ppm	0.6602 ppm	0.0002 ppm	0.0318 ppm	1.8705 ppm	0.0025 ppm	0.0834 ppm
Concentration per Run 3	0.0024 ppm	0.6439 ppm	0.0007 ppm	0.0318 ppm	1.8800 ppm	0.0025 ppm	0.0831 ppm
Concentration RSD	943.8 %	2.1 %	58.7 %	0.4 %	1.4 %	24.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0925 ppm	106.9438 %	105.1637 %	103.2690 %	111.1054 %	112.2843 %	111.5777 %
Concentration per Run 1	0.0911 ppm	108.9706 %	104.2711 %	102.2645 %	113.1525 %	111.7052 %	110.7009 %
Concentration per Run 2	0.0925 ppm	106.2077 %	105.6406 %	103.4388 %	110.2295 %	112.9498 %	111.6334 %
Concentration per Run 3	0.0939 ppm	105.6532 %	105.5794 %	104.1038 %	109.9340 %	112.1979 %	112.3988 %
Concentration RSD	1.5 %	1.7 %	0.7 %	0.9 %	1.6 %	0.6 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453208-01d2 WG1974891
Analysis started at: 9/24/2024 5:08:25 PM
Rack 2
Vial 56
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0027 ppm	74.9352 ppm	0.2831 ppm	0.0090 ppm	1.0777 ppm	0.0048 ppm	41.1021 ppm
Concentration per Run 1	0.0022 ppm	74.9950 ppm	0.2860 ppm	0.0083 ppm	1.0841 ppm	0.0048 ppm	40.9597 ppm
Concentration per Run 2	0.0037 ppm	74.6564 ppm	0.2841 ppm	0.0076 ppm	1.0713 ppm	0.0047 ppm	40.9082 ppm
Concentration per Run 3	0.0023 ppm	75.1544 ppm	0.2791 ppm	0.0112 ppm	1.0775 ppm	0.0048 ppm	41.4384 ppm
Concentration RSD	31.1 %	0.3 %	1.3 %	20.8 %	0.6 %	1.7 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0593 ppm	0.1318 ppm	0.9601 ppm	145.7037 ppm	6.9149 ppm	0.1041 ppm
Concentration per Run 1	0.0017 ppm	0.0598 ppm	0.1321 ppm	0.9551 ppm	146.3114 ppm	6.9479 ppm	0.1062 ppm
Concentration per Run 2	0.0014 ppm	0.0594 ppm	0.1316 ppm	0.9598 ppm	144.9864 ppm	6.8924 ppm	0.1034 ppm
Concentration per Run 3	0.0018 ppm	0.0587 ppm	0.1317 ppm	0.9655 ppm	145.8134 ppm	6.9045 ppm	0.1028 ppm
Concentration RSD	10.7 %	0.9 %	0.2 %	0.5 %	0.5 %	0.4 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.8037 ppm	3.2024 ppm	0.0106 ppm	3.2089 ppm	0.0998 ppm	3.6291 ppm	0.0085 ppm
Concentration per Run 1	25.8838 ppm	3.2086 ppm	0.0108 ppm	3.2063 ppm	0.1009 ppm	3.6342 ppm	0.0091 ppm
Concentration per Run 2	25.7494 ppm	3.1842 ppm	0.0107 ppm	3.2093 ppm	0.0999 ppm	3.6147 ppm	0.0084 ppm
Concentration per Run 3	25.7779 ppm	3.2142 ppm	0.0102 ppm	3.2112 ppm	0.0985 ppm	3.6384 ppm	0.0078 ppm
Concentration RSD	0.3 %	0.5 %	3.2 %	0.1 %	1.2 %	0.3 %	7.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0045 ppm	1.0519 ppm	0.3014 ppm	0.3831 ppm	3.1040 ppm	0.0033 ppm	0.2154 ppm
Concentration per Run 1	0.0041 ppm	1.0423 ppm	0.3017 ppm	0.3840 ppm	3.1132 ppm	0.0044 ppm	0.2153 ppm
Concentration per Run 2	0.0071 ppm	1.0683 ppm	0.2991 ppm	0.3809 ppm	3.0965 ppm	0.0016 ppm	0.2153 ppm
Concentration per Run 3	0.0022 ppm	1.0450 ppm	0.3033 ppm	0.3844 ppm	3.1022 ppm	0.0039 ppm	0.2155 ppm
Concentration RSD	55.2 %	1.4 %	0.7 %	0.5 %	0.3 %	44.9 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9751 ppm	105.7815 %	107.8496 %	101.0447 %	122.6594 %	129.1691 %	124.3345 %
Concentration per Run 1	0.9829 ppm	105.0666 %	106.6567 %	101.1701 %	121.6337 %	127.7163 %	124.8862 %
Concentration per Run 2	0.9704 ppm	105.4842 %	108.9075 %	101.3344 %	122.2543 %	130.3214 %	124.4932 %
Concentration per Run 3	0.9721 ppm	106.7937 %	107.9845 %	100.6296 %	124.0902 %	129.4696 %	123.6239 %
Concentration RSD	0.7 %	0.9 %	1.0 %	0.4 %	1.0 %	1.0 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453314-01d2 WG1974891
Analysis started at: 9/24/2024 5:12:22 PM
Rack 2
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0196 ppm	80.2595 ppm	0.2701 ppm	0.1519 ppm	5.1160 ppm	0.0062 ppm	64.0197 ppm
Concentration per Run 1	0.0191 ppm	80.0335 ppm	0.2762 ppm	0.1524 ppm	5.1153 ppm	0.0062 ppm	64.1056 ppm
Concentration per Run 2	0.0201 ppm	80.1309 ppm	0.2706 ppm	0.1527 ppm	5.1183 ppm	0.0062 ppm	63.9955 ppm
Concentration per Run 3	0.0195 ppm	80.6141 ppm	0.2636 ppm	0.1507 ppm	5.1144 ppm	0.0062 ppm	63.9579 ppm
Concentration RSD	2.5 %	0.4 %	2.3 %	0.7 %	0.0 %	0.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0775 ppm	0.1103 ppm	0.7896 ppm	6.2111 ppm	516.3821 [SIC 600]	8.2502 ppm	0.1180 ppm
Concentration per Run 1	0.0773 ppm	0.1104 ppm	0.7862 ppm	6.2191 ppm	517.2194 ppm	8.2469 ppm	0.1177 ppm
Concentration per Run 2	0.0778 ppm	0.1103 ppm	0.7951 ppm	6.2119 ppm	516.8555 ppm	8.2731 ppm	0.1195 ppm
Concentration per Run 3	0.0774 ppm	0.1103 ppm	0.7876 ppm	6.2022 ppm	515.0712 ppm	8.2304 ppm	0.1168 ppm
Concentration RSD	0.3 %	0.1 %	0.6 %	0.1 %	0.2 %	0.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.6146 ppm	5.0277 ppm	0.1617 ppm	2.8589 ppm	0.4464 ppm	18.3493 ppm	0.1119 ppm
Concentration per Run 1	13.6074 ppm	5.0348 ppm	0.1596 ppm	2.8696 ppm	0.4433 ppm	18.4318 ppm	0.1058 ppm
Concentration per Run 2	13.6295 ppm	5.0426 ppm	0.1633 ppm	2.8623 ppm	0.4503 ppm	18.3669 ppm	0.1170 ppm
Concentration per Run 3	13.6069 ppm	5.0057 ppm	0.1623 ppm	2.8447 ppm	0.4454 ppm	18.2492 ppm	0.1129 ppm
Concentration RSD	0.1 %	0.4 %	1.2 %	0.4 %	0.8 %	0.5 %	5.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0131 ppm	2.9631 ppm	1.3330 ppm	0.8033 ppm	1.9916 ppm	0.0064 ppm	0.2353 ppm
Concentration per Run 1	0.0145 ppm	2.9777 ppm	1.3247 ppm	0.8043 ppm	1.9892 ppm	0.0059 ppm	0.2364 ppm
Concentration per Run 2	0.0099 ppm	2.9664 ppm	1.3407 ppm	0.8014 ppm	1.9964 ppm	0.0060 ppm	0.2353 ppm
Concentration per Run 3	0.0148 ppm	2.9451 ppm	1.3337 ppm	0.8043 ppm	1.9892 ppm	0.0074 ppm	0.2342 ppm
Concentration RSD	20.9 %	0.6 %	0.6 %	0.2 %	0.2 %	12.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	18.8079 ppm	106.7057 %	110.5113 %	94.6883 %	116.8515 %	125.7933 %	117.2952 %
Concentration per Run 1	18.7856 ppm	107.0932 %	110.2249 %	94.2185 %	117.3889 %	125.5662 %	116.7542 %
Concentration per Run 2	18.9319 ppm	105.2086 %	109.9904 %	94.5679 %	115.3073 %	124.9413 %	117.5640 %
Concentration per Run 3	18.7062 ppm	107.8152 %	111.3186 %	95.2786 %	117.8583 %	126.8725 %	117.5675 %
Concentration RSD	0.6 %	1.3 %	0.6 %	0.6 %	1.2 %	0.8 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453398-01d2 WG1974891
Analysis started at: 9/24/2024 5:16:19 PM
Rack 2
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	156.9888 ppm	0.0857 ppm	0.0423 ppm	0.5558 ppm	0.0066 ppm	34.0105 ppm
Concentration per Run 1	0.0018 ppm	156.8160 ppm	0.0883 ppm	0.0410 ppm	0.5515 ppm	0.0066 ppm	33.9529 ppm
Concentration per Run 2	0.0021 ppm	157.2287 ppm	0.0853 ppm	0.0420 ppm	0.5586 ppm	0.0067 ppm	34.0938 ppm
Concentration per Run 3	0.0022 ppm	156.9219 ppm	0.0835 ppm	0.0440 ppm	0.5573 ppm	0.0065 ppm	33.9847 ppm
Concentration RSD	12.0 %	0.1 %	2.8 %	3.6 %	0.7 %	1.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.1084 ppm	0.3257 ppm	0.2196 ppm	257.7211 ppm	46.1560 ppm	0.3337 ppm
Concentration per Run 1	0.0006 ppm	0.1078 ppm	0.3255 ppm	0.2201 ppm	256.6292 ppm	45.7478 ppm	0.3298 ppm
Concentration per Run 2	0.0009 ppm	0.1090 ppm	0.3250 ppm	0.2187 ppm	259.4073 ppm	46.4964 ppm	0.3341 ppm
Concentration per Run 3	0.0012 ppm	0.1084 ppm	0.3267 ppm	0.2198 ppm	257.1268 ppm	46.2238 ppm	0.3374 ppm
Concentration RSD	31.0 %	0.5 %	0.3 %	0.3 %	0.6 %	0.8 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	78.9273 ppm	4.1367 ppm	0.0039 ppm	7.5877 ppm	0.2358 ppm	0.1284 ppm	-0.0066 ppm
Concentration per Run 1	79.0293 ppm	4.1269 ppm	0.0042 ppm	7.5916 ppm	0.2362 ppm	0.1286 ppm	-0.0062 ppm
Concentration per Run 2	78.8628 ppm	4.1635 ppm	0.0035 ppm	7.5802 ppm	0.2351 ppm	0.1290 ppm	-0.0090 ppm
Concentration per Run 3	78.8899 ppm	4.1197 ppm	0.0041 ppm	7.5912 ppm	0.2362 ppm	0.1276 ppm	-0.0045 ppm
Concentration RSD	0.1 %	0.6 %	9.8 %	0.1 %	0.3 %	0.6 %	34.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0040 ppm	0.9720 ppm	0.0167 ppm	0.1911 ppm	8.8993 ppm	0.0087 ppm	0.4133 ppm
Concentration per Run 1	-0.0071 ppm	0.9734 ppm	0.0179 ppm	0.1901 ppm	8.8863 ppm	0.0105 ppm	0.4130 ppm
Concentration per Run 2	-0.0009 ppm	0.9687 ppm	0.0164 ppm	0.1919 ppm	8.9233 ppm	0.0091 ppm	0.4128 ppm
Concentration per Run 3	-0.0042 ppm	0.9740 ppm	0.0160 ppm	0.1913 ppm	8.8882 ppm	0.0065 ppm	0.4142 ppm
Concentration RSD	76.8 %	0.3 %	6.0 %	0.5 %	0.2 %	23.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6128 ppm	109.4579 %	112.0417 %	103.9016 %	127.1038 %	134.5202 %	128.6847 %
Concentration per Run 1	0.6108 ppm	110.6680 %	113.2064 %	103.7788 %	128.5762 %	136.5764 %	128.4378 %
Concentration per Run 2	0.6123 ppm	109.4055 %	110.0689 %	103.1560 %	127.4899 %	131.8090 %	127.8520 %
Concentration per Run 3	0.6153 ppm	108.3000 %	112.8496 %	104.7700 %	125.2453 %	135.1752 %	129.7643 %
Concentration RSD	0.4 %	1.1 %	1.5 %	0.8 %	1.3 %	1.8 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 5:20:14 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5012 ppm	0.4778 ppm	0.4744 ppm	0.4834 ppm	0.4898 ppm	0.5004 ppm	0.4793 ppm
Concentration per Run 1	0.4978 ppm	0.4832 ppm	0.4733 ppm	0.4784 ppm	0.4830 ppm	0.4986 ppm	0.4824 ppm
Concentration per Run 2	0.5011 ppm	0.4631 ppm	0.4743 ppm	0.4821 ppm	0.4895 ppm	0.5005 ppm	0.4770 ppm
Concentration per Run 3	0.5047 ppm	0.4871 ppm	0.4755 ppm	0.4898 ppm	0.4968 ppm	0.5020 ppm	0.4786 ppm
Recovery Percentage 1	100.242 %	95.562 %	94.876 %	96.688 %	97.952 %	100.073 %	95.864 %
Concentration RSD	0.7 %	2.7 %	0.2 %	1.2 %	1.4 %	0.3 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4869 ppm	0.5007 ppm	0.4791 ppm	0.4839 ppm	0.5040 ppm	5.0679 ppm	0.4851 ppm
Concentration per Run 1	0.4900 ppm	0.5025 ppm	0.4746 ppm	0.4838 ppm	0.5001 ppm	5.0439 ppm	0.4853 ppm
Concentration per Run 2	0.4830 ppm	0.4983 ppm	0.4794 ppm	0.4833 ppm	0.5050 ppm	5.0924 ppm	0.4844 ppm
Concentration per Run 3	0.4875 ppm	0.5012 ppm	0.4832 ppm	0.4845 ppm	0.5069 ppm	5.0673 ppm	0.4856 ppm
Recovery Percentage 1	97.375 %	100.133 %	95.810 %	96.773 %	100.805 %	101.357 %	97.014 %
Concentration RSD	0.7 %	0.4 %	0.9 %	0.1 %	0.7 %	0.5 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4831 ppm	0.4772 ppm	0.4843 ppm	9.7766 ppm	0.4992 ppm	0.4909 ppm	0.4901 ppm
Concentration per Run 1	0.4864 ppm	0.4771 ppm	0.4812 ppm	9.7280 ppm	0.4968 ppm	0.4921 ppm	0.4871 ppm
Concentration per Run 2	0.4796 ppm	0.4747 ppm	0.4824 ppm	9.7604 ppm	0.4970 ppm	0.4912 ppm	0.4872 ppm
Concentration per Run 3	0.4832 ppm	0.4797 ppm	0.4893 ppm	9.8413 ppm	0.5037 ppm	0.4895 ppm	0.4960 ppm
Recovery Percentage 1	96.610 %	95.436 %	96.863 %	97.766 %	99.834 %	98.189 %	98.018 %
Concentration RSD	0.7 %	0.5 %	0.9 %	0.6 %	0.8 %	0.3 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4846 ppm	5.2058 ppm	0.4720 ppm	0.4708 ppm	0.4928 ppm	0.4945 ppm	0.4749 ppm
Concentration per Run 1	0.4837 ppm	5.1870 ppm	0.4729 ppm	0.4641 ppm	0.4897 ppm	0.4953 ppm	0.4745 ppm
Concentration per Run 2	0.4854 ppm	5.1960 ppm	0.4677 ppm	0.4707 ppm	0.4925 ppm	0.4952 ppm	0.4745 ppm
Concentration per Run 3	0.4846 ppm	5.2344 ppm	0.4754 ppm	0.4775 ppm	0.4961 ppm	0.4929 ppm	0.4757 ppm
Recovery Percentage 1	96.916 %	99.158 %	94.398 %	94.150 %	98.556 %	98.890 %	94.983 %
Concentration RSD	0.2 %	0.5 %	0.8 %	1.4 %	0.6 %	0.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4943 ppm	104.6659 %	103.2870 %	102.4228 %	102.4703 %	102.6938 %	102.3369 %
Concentration per Run 1	0.4914 ppm	104.5851 %	103.8966 %	102.4190 %	102.6699 %	103.2474 %	102.3464 %
Concentration per Run 2	0.4937 ppm	104.8483 %	102.8486 %	102.6533 %	102.8371 %	102.0559 %	102.5009 %
Concentration per Run 3	0.4978 ppm	104.5644 %	103.1157 %	102.1961 %	101.9039 %	102.7781 %	102.1634 %
Recovery Percentage 1	98.863 %						
Concentration RSD	0.7 %	0.2 %	0.5 %	0.2 %	0.5 %	0.6 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 5:24:10 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0067 ppm	0.0009 ppm	0.0008 ppm	-0.0002 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0099 ppm	-0.0002 ppm	0.0009 ppm	-0.0004 ppm	0.0001 ppm	-0.0013 ppm
Concentration per Run 2	0.0003 ppm	0.0041 ppm	0.0012 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 3	0.0009 ppm	0.0062 ppm	0.0017 ppm	0.0019 ppm	-0.0001 ppm	0.0001 ppm	-0.0007 ppm
Recovery Percentage 1	6.386 %	6.748 %	17.685 %	2.816 %	-2.313 %	1.767 %	-1.066 %
Concentration RSD	91.5 %	43.6 %	114.0 %	136.9 %	65.0 %	48.6 %	28.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0006 ppm	0.0001 ppm	-0.0001 ppm	0.0055 ppm	-0.0306 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	-0.0010 ppm	0.0004 ppm	-0.0003 ppm	0.0047 ppm	-0.0356 ppm	-0.0012 ppm
Concentration per Run 2	0.0003 ppm	-0.0005 ppm	0.0002 ppm	-0.0001 ppm	0.0067 ppm	-0.0153 ppm	0.0022 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0052 ppm	-0.0407 ppm	0.0014 ppm
Recovery Percentage 1	3.260 %	-2.820 %	0.868 %	-0.972 %	11.016 %	-1.222 %	16.641 %
Concentration RSD	47.8 %	66.4 %	455.2 %	179.0 %	18.8 %	44.1 %	212.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0000 ppm	0.0009 ppm	-0.0059 ppm	0.0006 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 1	-0.0017 ppm	-0.0001 ppm	0.0012 ppm	-0.0003 ppm	0.0000 ppm	-0.0007 ppm	0.0050 ppm
Concentration per Run 2	-0.0008 ppm	0.0000 ppm	0.0008 ppm	-0.0101 ppm	0.0017 ppm	0.0010 ppm	-0.0020 ppm
Concentration per Run 3	-0.0011 ppm	0.0003 ppm	0.0007 ppm	-0.0072 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm
Recovery Percentage 1	-1.162 %	0.431 %	1.737 %	-0.294 %	2.270 %	1.706 %	1.720 %
Concentration RSD	39.8 %	498.6 %	31.0 %	85.4 %	180.2 %	497.9 %	423.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0012 ppm	0.0006 ppm	-0.0013 ppm	0.0001 ppm	0.0006 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 1	0.0026 ppm	0.0017 ppm	-0.0019 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0008 ppm	-0.0010 ppm	0.0002 ppm	0.0007 ppm	0.0004 ppm	-0.0005 ppm
Concentration per Run 3	-0.0063 ppm	0.0009 ppm	-0.0010 ppm	0.0002 ppm	0.0009 ppm	0.0007 ppm	-0.0006 ppm
Recovery Percentage 1	-11.895 %	0.123 %	-2.555 %	1.435 %	5.858 %	1.978 %	-4.516 %
Concentration RSD	386.3 %	206.4 %	42.6 %	34.9 %	57.1 %	79.3 %	36.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0014 ppm	104.5694 %	102.0271 %	103.6035 %	103.6980 %	102.3076 %	104.4743 %
Concentration per Run 1	-0.0015 ppm	105.1610 %	102.7265 %	105.0169 %	104.1630 %	103.2898 %	105.4611 %
Concentration per Run 2	-0.0015 ppm	103.8563 %	101.3232 %	102.6545 %	103.1584 %	101.2668 %	103.9227 %
Concentration per Run 3	-0.0012 ppm	104.6910 %	102.0315 %	103.1390 %	103.7725 %	102.3663 %	104.0391 %
Recovery Percentage 1	-27.930 %						
Concentration RSD	11.0 %	0.6 %	0.7 %	1.2 %	0.5 %	1.0 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-15d2 WG1974066
Analysis started at: 9/24/2024 5:30:14 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	123.7490 ppm	0.0344 ppm	0.0143 ppm	0.7508 ppm	0.0101 ppm	40.4816 ppm
Concentration per Run 1	0.0022 ppm	123.7522 ppm	0.0321 ppm	0.0135 ppm	0.7499 ppm	0.0101 ppm	40.5293 ppm
Concentration per Run 2	0.0018 ppm	123.7306 ppm	0.0311 ppm	0.0151 ppm	0.7484 ppm	0.0102 ppm	40.3573 ppm
Concentration per Run 3	0.0012 ppm	123.7643 ppm	0.0399 ppm	0.0145 ppm	0.7540 ppm	0.0101 ppm	40.5582 ppm
Concentration RSD	28.8 %	0.0 %	14.1 %	5.6 %	0.4 %	0.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0540 ppm	0.1022 ppm	0.0760 ppm	211.9988 ppm	7.0395 ppm	0.1011 ppm
Concentration per Run 1	0.0024 ppm	0.0546 ppm	0.1023 ppm	0.0760 ppm	211.2717 ppm	7.0837 ppm	0.1010 ppm
Concentration per Run 2	0.0025 ppm	0.0542 ppm	0.1023 ppm	0.0759 ppm	212.2448 ppm	6.9905 ppm	0.1005 ppm
Concentration per Run 3	0.0023 ppm	0.0532 ppm	0.1020 ppm	0.0759 ppm	212.4799 ppm	7.0444 ppm	0.1017 ppm
Concentration RSD	4.7 %	1.4 %	0.2 %	0.1 %	0.3 %	0.7 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.5364 ppm	7.7382 ppm	0.0058 ppm	1.5952 ppm	0.0727 ppm	0.1369 ppm	-0.0015 ppm
Concentration per Run 1	27.4353 ppm	7.7292 ppm	0.0061 ppm	1.5943 ppm	0.0725 ppm	0.1362 ppm	-0.0054 ppm
Concentration per Run 2	27.5572 ppm	7.7379 ppm	0.0059 ppm	1.5976 ppm	0.0729 ppm	0.1385 ppm	-0.0015 ppm
Concentration per Run 3	27.6168 ppm	7.7476 ppm	0.0053 ppm	1.5936 ppm	0.0726 ppm	0.1360 ppm	0.0022 ppm
Concentration RSD	0.3 %	0.1 %	7.6 %	0.1 %	0.3 %	1.0 %	245.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	1.5882 ppm	0.0164 ppm	0.1217 ppm	3.7090 ppm	0.0048 ppm	0.2565 ppm
Concentration per Run 1	0.0009 ppm	1.5800 ppm	0.0164 ppm	0.1216 ppm	3.6917 ppm	0.0045 ppm	0.2562 ppm
Concentration per Run 2	0.0006 ppm	1.6059 ppm	0.0169 ppm	0.1215 ppm	3.7143 ppm	0.0047 ppm	0.2575 ppm
Concentration per Run 3	-0.0006 ppm	1.5787 ppm	0.0159 ppm	0.1220 ppm	3.7211 ppm	0.0052 ppm	0.2560 ppm
Concentration RSD	273.4 %	1.0 %	3.3 %	0.2 %	0.4 %	7.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7200 ppm	108.2183 %	114.8712 %	101.7863 %	**152.1351 %**	**166.7122 %**	**154.4821 %**
Concentration per Run 1	0.7200 ppm	108.7821 %	114.5669 %	101.2990 %	**152.3226 %**	**165.7443 %**	**154.0229 %**
Concentration per Run 2	0.7217 ppm	107.9960 %	115.1877 %	102.2251 %	**152.5450 %**	**167.5742 %**	**154.8685 %**
Concentration per Run 3	0.7183 ppm	107.8769 %	114.8590 %	101.8349 %	**151.5376 %**	**166.8181 %**	**154.5548 %**
Concentration RSD	0.2 %	0.5 %	0.3 %	0.5 %	**0.3 %**	**0.6 %**	**0.3 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-16d2 WG1974066
Analysis started at: 9/24/2024 5:34:25 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0016 ppm	123.6352 ppm	0.0255 ppm	0.0158 ppm	0.6426 ppm	0.0096 ppm	30.7664 ppm
Concentration per Run 1	0.0014 ppm	124.4347 ppm	0.0262 ppm	0.0158 ppm	0.6462 ppm	0.0097 ppm	31.0166 ppm
Concentration per Run 2	0.0021 ppm	123.5392 ppm	0.0245 ppm	0.0171 ppm	0.6405 ppm	0.0096 ppm	30.7491 ppm
Concentration per Run 3	0.0012 ppm	122.9317 ppm	0.0257 ppm	0.0146 ppm	0.6410 ppm	0.0096 ppm	30.5335 ppm
Concentration RSD	29.5 %	0.6 %	3.5 %	7.8 %	0.5 %	0.6 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.0492 ppm	0.0974 ppm	0.0914 ppm	196.7052 ppm	8.4410 ppm	0.1017 ppm
Concentration per Run 1	0.0017 ppm	0.0495 ppm	0.0978 ppm	0.0916 ppm	197.9665 ppm	8.4884 ppm	0.1032 ppm
Concentration per Run 2	0.0019 ppm	0.0490 ppm	0.0978 ppm	0.0914 ppm	196.2431 ppm	8.4353 ppm	0.1013 ppm
Concentration per Run 3	0.0020 ppm	0.0490 ppm	0.0964 ppm	0.0911 ppm	195.9061 ppm	8.3993 ppm	0.1006 ppm
Concentration RSD	8.0 %	0.6 %	0.8 %	0.3 %	0.6 %	0.5 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.7118 ppm	4.3017 ppm	0.0051 ppm	1.1999 ppm	0.0734 ppm	0.1125 ppm	-0.0042 ppm
Concentration per Run 1	22.7103 ppm	4.3526 ppm	0.0046 ppm	1.2099 ppm	0.0740 ppm	0.1128 ppm	-0.0033 ppm
Concentration per Run 2	22.7048 ppm	4.2784 ppm	0.0055 ppm	1.2019 ppm	0.0741 ppm	0.1117 ppm	-0.0037 ppm
Concentration per Run 3	22.7203 ppm	4.2742 ppm	0.0053 ppm	1.1879 ppm	0.0721 ppm	0.1129 ppm	-0.0058 ppm
Concentration RSD	0.0 %	1.0 %	8.8 %	0.9 %	1.6 %	0.6 %	31.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	1.4486 ppm	0.0147 ppm	0.1029 ppm	3.9382 ppm	0.0054 ppm	0.2489 ppm
Concentration per Run 1	-0.0004 ppm	1.4431 ppm	0.0142 ppm	0.1034 ppm	3.9447 ppm	0.0058 ppm	0.2486 ppm
Concentration per Run 2	0.0022 ppm	1.4473 ppm	0.0156 ppm	0.1028 ppm	3.9445 ppm	0.0062 ppm	0.2488 ppm
Concentration per Run 3	0.0029 ppm	1.4553 ppm	0.0145 ppm	0.1025 ppm	3.9255 ppm	0.0043 ppm	0.2493 ppm
Concentration RSD	109.7 %	0.4 %	4.9 %	0.4 %	0.3 %	18.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6755 ppm	111.9350 %	114.7082 %	104.6042 %	152.5709 %	160.3632 %	152.5986 %
Concentration per Run 1	0.6750 ppm	111.0207 %	113.8545 %	105.1129 %	151.3240 %	159.6986 %	153.5978 %
Concentration per Run 2	0.6777 ppm	112.9938 %	114.6693 %	104.4867 %	153.7420 %	160.3458 %	151.9609 %
Concentration per Run 3	0.6737 ppm	111.7904 %	115.6009 %	104.2129 %	152.6466 %	161.0453 %	152.2372 %
Concentration RSD	0.3 %	0.9 %	0.8 %	0.4 %	0.8 %	0.4 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-17d2 WG1974066
Analysis started at: 9/24/2024 5:38:21 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	117.6826 ppm	0.0281 ppm	0.0110 ppm	0.6745 ppm	0.0095 ppm	27.5997 ppm
Concentration per Run 1	0.0010 ppm	117.9901 ppm	0.0289 ppm	0.0108 ppm	0.6736 ppm	0.0094 ppm	27.6205 ppm
Concentration per Run 2	0.0011 ppm	117.1738 ppm	0.0263 ppm	0.0124 ppm	0.6696 ppm	0.0094 ppm	27.5217 ppm
Concentration per Run 3	0.0014 ppm	117.8839 ppm	0.0292 ppm	0.0098 ppm	0.6802 ppm	0.0096 ppm	27.6569 ppm
Concentration RSD	14.0 %	0.4 %	5.7 %	12.3 %	0.8 %	1.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0011 ppm	0.0514 ppm	0.1115 ppm	0.0994 ppm	220.2864 ppm	10.8167 ppm	0.0988 ppm
Concentration per Run 1	0.0012 ppm	0.0505 ppm	0.1119 ppm	0.0996 ppm	220.3769 ppm	10.8382 ppm	0.0995 ppm
Concentration per Run 2	0.0009 ppm	0.0525 ppm	0.1118 ppm	0.0999 ppm	219.1019 ppm	10.7736 ppm	0.0976 ppm
Concentration per Run 3	0.0012 ppm	0.0512 ppm	0.1108 ppm	0.0987 ppm	221.3804 ppm	10.8382 ppm	0.0994 ppm
Concentration RSD	14.9 %	1.9 %	0.6 %	0.6 %	0.5 %	0.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.9763 ppm	3.4930 ppm	0.0056 ppm	1.5095 ppm	0.0828 ppm	0.0985 ppm	-0.0051 ppm
Concentration per Run 1	26.0120 ppm	3.4979 ppm	0.0058 ppm	1.5018 ppm	0.0836 ppm	0.0982 ppm	0.0005 ppm
Concentration per Run 2	25.9371 ppm	3.4809 ppm	0.0051 ppm	1.5045 ppm	0.0825 ppm	0.1000 ppm	-0.0051 ppm
Concentration per Run 3	25.9798 ppm	3.5001 ppm	0.0058 ppm	1.5222 ppm	0.0822 ppm	0.0972 ppm	-0.0107 ppm
Concentration RSD	0.1 %	0.3 %	7.2 %	0.7 %	0.9 %	1.4 %	109.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	1.1891 ppm	0.0151 ppm	0.0897 ppm	4.6027 ppm	0.0054 ppm	0.2287 ppm
Concentration per Run 1	0.0012 ppm	1.1840 ppm	0.0134 ppm	0.0901 ppm	4.6131 ppm	0.0046 ppm	0.2287 ppm
Concentration per Run 2	0.0009 ppm	1.1881 ppm	0.0152 ppm	0.0890 ppm	4.5902 ppm	0.0063 ppm	0.2288 ppm
Concentration per Run 3	-0.0005 ppm	1.1951 ppm	0.0167 ppm	0.0902 ppm	4.6047 ppm	0.0054 ppm	0.2285 ppm
Concentration RSD	170.2 %	0.5 %	10.9 %	0.8 %	0.3 %	15.5 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5698 ppm	112.5742 %	117.3374 %	105.6915 %	**187.1590 %**	**200.8750 %**	**188.8262 %**
Concentration per Run 1	0.5706 ppm	112.2444 %	117.1640 %	105.4815 %	**185.7988 %**	**201.3241 %**	**188.8931 %**
Concentration per Run 2	0.5677 ppm	112.3901 %	118.0721 %	106.1268 %	**187.0447 %**	**200.9085 %**	**189.4456 %**
Concentration per Run 3	0.5710 ppm	113.0882 %	116.7762 %	105.4661 %	**188.6334 %**	**200.3924 %**	**188.1399 %**
Concentration RSD	0.3 %	0.4 %	0.6 %	0.4 %	**0.8 %**	**0.2 %**	**0.3 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-18d2 WG1974066
Analysis started at: 9/24/2024 5:42:16 PM
Rack 2
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	114.8651 ppm	0.0370 ppm	0.0146 ppm	0.8505 ppm	0.0117 ppm	44.5169 ppm
Concentration per Run 1	0.0004 ppm	114.8516 ppm	0.0401 ppm	0.0141 ppm	0.8500 ppm	0.0116 ppm	44.5544 ppm
Concentration per Run 2	0.0008 ppm	114.8658 ppm	0.0351 ppm	0.0141 ppm	0.8515 ppm	0.0117 ppm	44.5886 ppm
Concentration per Run 3	0.0006 ppm	114.8779 ppm	0.0357 ppm	0.0155 ppm	0.8500 ppm	0.0117 ppm	44.4078 ppm
Concentration RSD	30.3 %	0.0 %	7.3 %	5.3 %	0.1 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0015 ppm	0.0789 ppm	0.1124 ppm	0.1210 ppm	327.0468 ppm	15.0470 ppm	0.1137 ppm
Concentration per Run 1	0.0015 ppm	0.0788 ppm	0.1122 ppm	0.1212 ppm	326.9624 ppm	14.9923 ppm	0.1141 ppm
Concentration per Run 2	0.0013 ppm	0.0786 ppm	0.1120 ppm	0.1210 ppm	328.3091 ppm	15.0404 ppm	0.1135 ppm
Concentration per Run 3	0.0015 ppm	0.0793 ppm	0.1130 ppm	0.1208 ppm	325.8689 ppm	15.1083 ppm	0.1134 ppm
Concentration RSD	7.2 %	0.5 %	0.4 %	0.1 %	0.4 %	0.4 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	34.1247 ppm	7.7070 ppm	0.0068 ppm	4.3212 ppm	0.0973 ppm	0.0817 ppm	-0.0079 ppm
Concentration per Run 1	33.9136 ppm	7.7004 ppm	0.0067 ppm	4.3258 ppm	0.0964 ppm	0.0830 ppm	-0.0073 ppm
Concentration per Run 2	34.2362 ppm	7.7400 ppm	0.0064 ppm	4.3156 ppm	0.0982 ppm	0.0797 ppm	-0.0097 ppm
Concentration per Run 3	34.2242 ppm	7.6806 ppm	0.0073 ppm	4.3221 ppm	0.0972 ppm	0.0825 ppm	-0.0069 ppm
Concentration RSD	0.5 %	0.4 %	6.5 %	0.1 %	0.9 %	2.2 %	19.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	1.2607 ppm	0.0213 ppm	0.1392 ppm	7.5023 ppm	0.0107 ppm	0.3280 ppm
Concentration per Run 1	0.0019 ppm	1.2623 ppm	0.0198 ppm	0.1389 ppm	7.4680 ppm	0.0114 ppm	0.3268 ppm
Concentration per Run 2	-0.0004 ppm	1.2618 ppm	0.0220 ppm	0.1397 ppm	7.5239 ppm	0.0118 ppm	0.3290 ppm
Concentration per Run 3	-0.0042 ppm	1.2580 ppm	0.0221 ppm	0.1391 ppm	7.5150 ppm	0.0090 ppm	0.3282 ppm
Concentration RSD	349.1 %	0.2 %	5.9 %	0.3 %	0.4 %	14.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7481 ppm	113.8758 %	119.0849 %	107.0398 %	**240.0667 %**	**260.2996 %**	**243.5755 %**
Concentration per Run 1	0.7465 ppm	113.8817 %	118.7654 %	107.1529 %	**240.1895 %**	**259.9822 %**	**243.7146 %**
Concentration per Run 2	0.7481 ppm	114.2168 %	118.6660 %	106.7453 %	**240.4949 %**	**258.6676 %**	**242.9845 %**
Concentration per Run 3	0.7498 ppm	113.5288 %	119.8233 %	107.2214 %	**239.5158 %**	**262.2489 %**	**244.0274 %**
Concentration RSD	0.2 %	0.3 %	0.5 %	0.2 %	**0.2 %**	**0.7 %**	**0.2 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-19d2 WG1974066
Analysis started at: 9/24/2024 5:46:11 PM
Rack 2
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	55.1704 ppm	0.0145 ppm	0.0038 ppm	0.2805 ppm	0.0033 ppm	9.7401 ppm
Concentration per Run 1	0.0013 ppm	54.8160 ppm	0.0146 ppm	0.0044 ppm	0.2788 ppm	0.0033 ppm	9.7060 ppm
Concentration per Run 2	0.0004 ppm	55.3948 ppm	0.0137 ppm	0.0024 ppm	0.2816 ppm	0.0033 ppm	9.7473 ppm
Concentration per Run 3	0.0010 ppm	55.3003 ppm	0.0154 ppm	0.0045 ppm	0.2811 ppm	0.0033 ppm	9.7669 ppm
Concentration RSD	53.2 %	0.6 %	5.9 %	30.8 %	0.5 %	1.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0149 ppm	0.0415 ppm	0.0635 ppm	82.8010 ppm	2.2303 ppm	0.0426 ppm
Concentration per Run 1	0.0009 ppm	0.0145 ppm	0.0410 ppm	0.0631 ppm	82.3826 ppm	2.2213 ppm	0.0436 ppm
Concentration per Run 2	0.0011 ppm	0.0149 ppm	0.0412 ppm	0.0634 ppm	83.1549 ppm	2.2449 ppm	0.0426 ppm
Concentration per Run 3	0.0007 ppm	0.0152 ppm	0.0423 ppm	0.0640 ppm	82.8655 ppm	2.2247 ppm	0.0417 ppm
Concentration RSD	24.4 %	2.3 %	1.7 %	0.8 %	0.5 %	0.6 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.5030 ppm	0.7965 ppm	0.0018 ppm	0.4696 ppm	0.0250 ppm	0.0763 ppm	-0.0005 ppm
Concentration per Run 1	8.5184 ppm	0.7958 ppm	0.0017 ppm	0.4704 ppm	0.0254 ppm	0.0755 ppm	0.0036 ppm
Concentration per Run 2	8.4792 ppm	0.7972 ppm	0.0021 ppm	0.4700 ppm	0.0246 ppm	0.0784 ppm	-0.0026 ppm
Concentration per Run 3	8.5114 ppm	0.7963 ppm	0.0017 ppm	0.4683 ppm	0.0251 ppm	0.0751 ppm	-0.0024 ppm
Concentration RSD	0.2 %	0.1 %	14.4 %	0.2 %	1.6 %	2.4 %	765.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	1.6912 ppm	0.0087 ppm	0.0368 ppm	1.1126 ppm	0.0011 ppm	0.0919 ppm
Concentration per Run 1	0.0003 ppm	1.6893 ppm	0.0084 ppm	0.0365 ppm	1.1135 ppm	0.0005 ppm	0.0920 ppm
Concentration per Run 2	-0.0015 ppm	1.6950 ppm	0.0084 ppm	0.0372 ppm	1.1079 ppm	0.0027 ppm	0.0919 ppm
Concentration per Run 3	0.0003 ppm	1.6895 ppm	0.0095 ppm	0.0366 ppm	1.1165 ppm	0.0003 ppm	0.0918 ppm
Concentration RSD	344.0 %	0.2 %	7.4 %	1.0 %	0.4 %	116.6 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2385 ppm	109.2802 %	111.0832 %	104.5530 %	124.2598 %	128.8481 %	124.6306 %
Concentration per Run 1	0.2378 ppm	109.9390 %	111.4813 %	104.4356 %	124.8370 %	128.9327 %	124.5106 %
Concentration per Run 2	0.2371 ppm	109.5767 %	110.4939 %	104.7331 %	124.3523 %	128.0149 %	124.9899 %
Concentration per Run 3	0.2406 ppm	108.3248 %	111.2746 %	104.4902 %	123.5902 %	129.5968 %	124.3914 %
Concentration RSD	0.8 %	0.8 %	0.5 %	0.2 %	0.5 %	0.6 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453391-20d2 WG1974066
Analysis started at: 9/24/2024 5:50:07 PM
Rack 2
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	146.7599 ppm	0.0328 ppm	0.0064 ppm	0.8549 ppm	0.0128 ppm	38.6072 ppm
Concentration per Run 1	0.0020 ppm	146.5053 ppm	0.0341 ppm	0.0056 ppm	0.8595 ppm	0.0127 ppm	38.6208 ppm
Concentration per Run 2	0.0016 ppm	147.0171 ppm	0.0328 ppm	0.0080 ppm	0.8497 ppm	0.0127 ppm	38.6569 ppm
Concentration per Run 3	0.0020 ppm	146.7573 ppm	0.0316 ppm	0.0057 ppm	0.8555 ppm	0.0128 ppm	38.5438 ppm
Concentration RSD	11.5 %	0.2 %	3.9 %	20.8 %	0.6 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0460 ppm	0.1090 ppm	0.0928 ppm	252.6693 ppm	5.7298 ppm	0.1308 ppm
Concentration per Run 1	0.0023 ppm	0.0459 ppm	0.1088 ppm	0.0924 ppm	253.4187 ppm	5.7621 ppm	0.1316 ppm
Concentration per Run 2	0.0026 ppm	0.0464 ppm	0.1083 ppm	0.0934 ppm	251.5731 ppm	5.6951 ppm	0.1294 ppm
Concentration per Run 3	0.0023 ppm	0.0458 ppm	0.1098 ppm	0.0927 ppm	253.0162 ppm	5.7323 ppm	0.1315 ppm
Concentration RSD	6.9 %	0.7 %	0.7 %	0.5 %	0.4 %	0.6 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.9652 ppm	2.7037 ppm	0.0089 ppm	0.8321 ppm	0.0664 ppm	0.1175 ppm	-0.0046 ppm
Concentration per Run 1	22.9210 ppm	2.7035 ppm	0.0091 ppm	0.8331 ppm	0.0668 ppm	0.1178 ppm	-0.0027 ppm
Concentration per Run 2	23.0243 ppm	2.7080 ppm	0.0083 ppm	0.8323 ppm	0.0659 ppm	0.1181 ppm	-0.0025 ppm
Concentration per Run 3	22.9503 ppm	2.6995 ppm	0.0093 ppm	0.8308 ppm	0.0665 ppm	0.1166 ppm	-0.0086 ppm
Concentration RSD	0.2 %	0.2 %	6.1 %	0.1 %	0.8 %	0.7 %	75.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0014 ppm	5.0496 ppm	0.0318 ppm	0.1207 ppm	3.1706 ppm	0.0059 ppm	0.2778 ppm
Concentration per Run 1	0.0001 ppm	5.0314 ppm	0.0316 ppm	0.1212 ppm	3.1632 ppm	0.0063 ppm	0.2767 ppm
Concentration per Run 2	-0.0009 ppm	5.0499 ppm	0.0324 ppm	0.1198 ppm	3.1723 ppm	0.0050 ppm	0.2780 ppm
Concentration per Run 3	-0.0033 ppm	5.0675 ppm	0.0313 ppm	0.1211 ppm	3.1763 ppm	0.0065 ppm	0.2787 ppm
Concentration RSD	125.9 %	0.4 %	1.8 %	0.7 %	0.2 %	13.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6686 ppm	111.1324 %	114.2390 %	103.4734 %	**242.0420 %**	**258.6844 %**	**246.4109 %**
Concentration per Run 1	0.6660 ppm	110.4081 %	113.3238 %	103.8713 %	**240.3302 %**	**255.9330 %**	**247.9065 %**
Concentration per Run 2	0.6699 ppm	111.0754 %	114.0528 %	103.3496 %	**241.8545 %**	**259.2701 %**	**246.0244 %**
Concentration per Run 3	0.6698 ppm	111.9138 %	115.3403 %	103.1992 %	**243.9413 %**	**260.8500 %**	**245.3018 %**
Concentration RSD	0.3 %	0.7 %	0.9 %	0.3 %	**0.7 %**	**1.0 %**	**0.5 %**

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 5:54:03 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4893 ppm	0.4511 ppm	0.4620 ppm	0.4748 ppm	0.4687 ppm	0.4790 ppm	0.4598 ppm
Concentration per Run 1	0.4896 ppm	0.4528 ppm	0.4652 ppm	0.4757 ppm	0.4671 ppm	0.4770 ppm	0.4559 ppm
Concentration per Run 2	0.4897 ppm	0.4558 ppm	0.4595 ppm	0.4709 ppm	0.4694 ppm	0.4797 ppm	0.4627 ppm
Concentration per Run 3	0.4885 ppm	0.4447 ppm	0.4614 ppm	0.4777 ppm	0.4695 ppm	0.4803 ppm	0.4609 ppm
Recovery Percentage 1	97.855 %	90.222 %	92.401 %	94.955 %	93.733 %	95.797 %	91.967 %
Concentration RSD	0.1 %	1.3 %	0.6 %	0.7 %	0.3 %	0.4 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4782 ppm	0.4879 ppm	0.4666 ppm	0.4752 ppm	0.4826 ppm	4.8273 ppm	0.4647 ppm
Concentration per Run 1	0.4736 ppm	0.4866 ppm	0.4654 ppm	0.4751 ppm	0.4837 ppm	4.7979 ppm	0.4661 ppm
Concentration per Run 2	0.4817 ppm	0.4862 ppm	0.4677 ppm	0.4752 ppm	0.4838 ppm	4.8692 ppm	0.4644 ppm
Concentration per Run 3	0.4794 ppm	0.4908 ppm	0.4668 ppm	0.4754 ppm	0.4803 ppm	4.8149 ppm	0.4635 ppm
Recovery Percentage 1	95.646 %	97.571 %	93.329 %	95.044 %	96.522 %	96.546 %	92.931 %
Concentration RSD	0.9 %	0.5 %	0.3 %	0.0 %	0.4 %	0.8 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4704 ppm	0.4573 ppm	0.4696 ppm	9.3853 ppm	0.4849 ppm	0.4771 ppm	0.4814 ppm
Concentration per Run 1	0.4686 ppm	0.4559 ppm	0.4668 ppm	9.3465 ppm	0.4862 ppm	0.4793 ppm	0.4754 ppm
Concentration per Run 2	0.4729 ppm	0.4593 ppm	0.4693 ppm	9.4166 ppm	0.4815 ppm	0.4750 ppm	0.4821 ppm
Concentration per Run 3	0.4697 ppm	0.4569 ppm	0.4727 ppm	9.3928 ppm	0.4871 ppm	0.4771 ppm	0.4866 ppm
Recovery Percentage 1	94.082 %	91.470 %	93.925 %	93.853 %	96.982 %	95.424 %	96.273 %
Concentration RSD	0.5 %	0.4 %	0.6 %	0.4 %	0.6 %	0.5 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4750 ppm	5.1064 ppm	0.4573 ppm	0.4489 ppm	0.4782 ppm	0.4785 ppm	0.4659 ppm
Concentration per Run 1	0.4769 ppm	5.0659 ppm	0.4552 ppm	0.4472 ppm	0.4788 ppm	0.4798 ppm	0.4641 ppm
Concentration per Run 2	0.4763 ppm	5.1171 ppm	0.4551 ppm	0.4498 ppm	0.4800 ppm	0.4785 ppm	0.4671 ppm
Concentration per Run 3	0.4717 ppm	5.1362 ppm	0.4615 ppm	0.4496 ppm	0.4757 ppm	0.4773 ppm	0.4665 ppm
Recovery Percentage 1	94.993 %	97.264 %	91.454 %	89.778 %	95.630 %	95.705 %	93.184 %
Concentration RSD	0.6 %	0.7 %	0.8 %	0.3 %	0.5 %	0.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4815 ppm	106.4965 %	107.0001 %	104.8886 %	104.3012 %	106.0456 %	104.7710 %
Concentration per Run 1	0.4806 ppm	107.3311 %	107.1580 %	103.2651 %	105.2106 %	106.2615 %	103.2783 %
Concentration per Run 2	0.4795 ppm	105.9731 %	106.5558 %	104.7214 %	103.7283 %	105.5513 %	104.4560 %
Concentration per Run 3	0.4844 ppm	106.1852 %	107.2865 %	106.6794 %	103.9647 %	106.3242 %	106.5787 %
Recovery Percentage 1	96.307 %						
Concentration RSD	0.5 %	0.7 %	0.4 %	1.6 %	0.8 %	0.4 %	1.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 5:57:59 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0029 ppm	0.0007 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0041 ppm
Concentration per Run 1	0.0000 ppm	0.0095 ppm	0.0014 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	-0.0049 ppm
Concentration per Run 2	0.0005 ppm	-0.0066 ppm	0.0002 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0037 ppm
Concentration per Run 3	0.0003 ppm	0.0058 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	-0.0001 ppm	-0.0036 ppm
Recovery Percentage 1	3.949 %	2.902 %	13.312 %	3.559 %	-0.149 %	-0.625 %	-4.063 %
Concentration RSD	97.2 %	291.4 %	94.1 %	53.6 %	623.9 %	198.1 %	18.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm	0.0053 ppm	-0.0048 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0040 ppm	0.0144 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	0.0002 ppm	-0.0004 ppm	0.0059 ppm	-0.0137 ppm	0.0017 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0060 ppm	-0.0153 ppm	0.0011 ppm
Recovery Percentage 1	0.682 %	-1.341 %	1.874 %	-1.625 %	10.579 %	-0.194 %	14.461 %
Concentration RSD	45.2 %	139.3 %	246.2 %	151.8 %	20.8 %	345.0 %	158.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0023 ppm	0.0001 ppm	0.0011 ppm	-0.0074 ppm	0.0005 ppm	0.0003 ppm	-0.0027 ppm
Concentration per Run 1	-0.0032 ppm	-0.0002 ppm	0.0011 ppm	-0.0089 ppm	0.0005 ppm	-0.0006 ppm	-0.0038 ppm
Concentration per Run 2	-0.0023 ppm	0.0004 ppm	0.0016 ppm	-0.0064 ppm	0.0009 ppm	0.0015 ppm	-0.0056 ppm
Concentration per Run 3	-0.0013 ppm	0.0002 ppm	0.0006 ppm	-0.0069 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm
Recovery Percentage 1	-2.271 %	1.237 %	2.157 %	-0.369 %	2.119 %	2.910 %	-5.491 %
Concentration RSD	41.6 %	228.2 %	48.9 %	17.8 %	62.7 %	360.7 %	129.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	-0.0016 ppm	-0.0018 ppm	0.0002 ppm	0.0009 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0007 ppm	-0.0031 ppm	-0.0018 ppm	0.0001 ppm	0.0012 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 2	-0.0013 ppm	-0.0003 ppm	-0.0014 ppm	0.0002 ppm	0.0009 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 3	-0.0016 ppm	-0.0014 ppm	-0.0021 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	-7.375 %	-0.322 %	-3.514 %	1.633 %	8.676 %	-0.297 %	-1.794 %
Concentration RSD	164.4 %	85.0 %	19.7 %	51.1 %	36.2 %	209.9 %	118.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0015 ppm	106.6353 %	105.5088 %	104.7091 %	106.1200 %	105.4654 %	105.5029 %
Concentration per Run 1	-0.0017 ppm	107.0450 %	105.4039 %	104.3872 %	106.7803 %	105.4354 %	105.1867 %
Concentration per Run 2	-0.0013 ppm	106.5641 %	104.3201 %	104.9225 %	105.9764 %	104.5000 %	105.7120 %
Concentration per Run 3	-0.0015 ppm	106.2969 %	106.8025 %	104.8177 %	105.6034 %	106.4607 %	105.6100 %
Recovery Percentage 1	-30.020 %						
Concentration RSD	13.6 %	0.4 %	1.2 %	0.3 %	0.6 %	0.9 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974561-1 WG1974561
Analysis started at: 9/24/2024 6:03:10 PM
Rack 2
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0020 ppm	0.0015 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0123 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0019 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0157 ppm
Concentration per Run 2	-0.0003 ppm	-0.0047 ppm	0.0034 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0110 ppm
Concentration per Run 3	-0.0001 ppm	-0.0023 ppm	-0.0007 ppm	0.0012 ppm	-0.0002 ppm	0.0000 ppm	0.0103 ppm
Concentration RSD	209.9 %	139.2 %	138.5 %	297.7 %	147.0 %	44.2 %	23.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0004 ppm	-0.0001 ppm	-0.0001 ppm	0.0158 ppm	-0.0112 ppm	0.0008 ppm
Concentration per Run 1	-0.0002 ppm	0.0004 ppm	-0.0006 ppm	-0.0002 ppm	0.0168 ppm	-0.0266 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	-0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0158 ppm	-0.0116 ppm	0.0011 ppm
Concentration per Run 3	-0.0002 ppm	-0.0006 ppm	0.0003 ppm	-0.0001 ppm	0.0148 ppm	0.0044 ppm	0.0016 ppm
Concentration RSD	173.3 %	186.4 %	595.3 %	163.4 %	6.3 %	138.0 %	115.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0032 ppm	0.0004 ppm	-0.0003 ppm	0.0011 ppm	0.0004 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 1	0.0029 ppm	0.0004 ppm	-0.0006 ppm	0.0024 ppm	-0.0005 ppm	0.0003 ppm	-0.0049 ppm
Concentration per Run 2	0.0040 ppm	0.0003 ppm	0.0000 ppm	0.0033 ppm	0.0011 ppm	-0.0005 ppm	-0.0006 ppm
Concentration per Run 3	0.0027 ppm	0.0004 ppm	-0.0002 ppm	-0.0023 ppm	0.0006 ppm	0.0000 ppm	0.0031 ppm
Concentration RSD	21.9 %	23.6 %	109.0 %	267.5 %	201.7 %	587.6 %	507.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0053 ppm	-0.0004 ppm	0.0002 ppm	0.0008 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 1	-0.0012 ppm	0.0060 ppm	-0.0008 ppm	0.0001 ppm	0.0005 ppm	-0.0012 ppm	-0.0006 ppm
Concentration per Run 2	-0.0004 ppm	0.0055 ppm	-0.0008 ppm	0.0002 ppm	0.0008 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 3	-0.0018 ppm	0.0043 ppm	0.0003 ppm	0.0002 ppm	0.0012 ppm	0.0001 ppm	-0.0001 ppm
Concentration RSD	63.8 %	16.1 %	143.8 %	16.8 %	38.2 %	213.6 %	66.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0002 ppm	106.7535 %	109.1597 %	105.5305 %	104.9119 %	108.5170 %	105.7947 %
Concentration per Run 1	-0.0001 ppm	107.2269 %	108.3632 %	105.2570 %	105.4181 %	107.9586 %	105.3537 %
Concentration per Run 2	-0.0001 ppm	109.5683 %	107.7537 %	105.7369 %	107.2715 %	107.3670 %	106.1195 %
Concentration per Run 3	-0.0005 ppm	103.4654 %	111.3622 %	105.5975 %	102.0462 %	110.2252 %	105.9109 %
Concentration RSD	95.4 %	2.9 %	1.8 %	0.2 %	2.5 %	1.4 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974561-2d2 WG1974561
Analysis started at: 9/24/2024 6:07:21 PM
Rack 2
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0498 ppm	1.8710 ppm	0.1153 ppm	0.9528 ppm	1.9091 ppm	0.0487 ppm	9.5409 ppm
Concentration per Run 1	0.0498 ppm	1.8564 ppm	0.1150 ppm	0.9443 ppm	1.9137 ppm	0.0488 ppm	9.5699 ppm
Concentration per Run 2	0.0500 ppm	1.8782 ppm	0.1163 ppm	0.9567 ppm	1.9079 ppm	0.0487 ppm	9.5273 ppm
Concentration per Run 3	0.0497 ppm	1.8783 ppm	0.1144 ppm	0.9573 ppm	1.9056 ppm	0.0488 ppm	9.5255 ppm
Concentration RSD	0.3 %	0.7 %	0.8 %	0.8 %	0.2 %	0.1 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0510 ppm	0.4926 ppm	0.1914 ppm	0.2473 ppm	0.9867 ppm	9.7958 ppm	0.0004 ppm
Concentration per Run 1	0.0514 ppm	0.4928 ppm	0.1904 ppm	0.2464 ppm	0.9928 ppm	9.8316 ppm	0.0007 ppm
Concentration per Run 2	0.0504 ppm	0.4895 ppm	0.1921 ppm	0.2481 ppm	0.9863 ppm	9.7388 ppm	0.0019 ppm
Concentration per Run 3	0.0513 ppm	0.4956 ppm	0.1918 ppm	0.2474 ppm	0.9810 ppm	9.8170 ppm	-0.0015 ppm
Concentration RSD	1.0 %	0.6 %	0.5 %	0.4 %	0.6 %	0.5 %	471.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.7789 ppm	0.4790 ppm	0.9757 ppm	9.6621 ppm	0.4876 ppm	0.5203 ppm	0.4937 ppm
Concentration per Run 1	9.8339 ppm	0.4793 ppm	0.9675 ppm	9.6724 ppm	0.4854 ppm	0.5143 ppm	0.4913 ppm
Concentration per Run 2	9.7755 ppm	0.4783 ppm	0.9738 ppm	9.6678 ppm	0.4881 ppm	0.5226 ppm	0.4985 ppm
Concentration per Run 3	9.7272 ppm	0.4794 ppm	0.9858 ppm	9.6459 ppm	0.4892 ppm	0.5240 ppm	0.4912 ppm
Concentration RSD	0.5 %	0.1 %	0.9 %	0.1 %	0.4 %	1.0 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1122 ppm	0.6587 ppm	0.9412 ppm	0.9146 ppm	0.9822 ppm	0.1182 ppm	0.4910 ppm
Concentration per Run 1	0.1115 ppm	0.6557 ppm	0.9361 ppm	0.9162 ppm	0.9830 ppm	0.1160 ppm	0.4910 ppm
Concentration per Run 2	0.1121 ppm	0.6591 ppm	0.9380 ppm	0.9143 ppm	0.9840 ppm	0.1177 ppm	0.4909 ppm
Concentration per Run 3	0.1130 ppm	0.6615 ppm	0.9494 ppm	0.9135 ppm	0.9797 ppm	0.1208 ppm	0.4912 ppm
Concentration RSD	0.7 %	0.4 %	0.8 %	0.2 %	0.2 %	2.1 %	0.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4861 ppm	107.1158 %	109.0690 %	105.1901 %	104.9274 %	107.9263 %	105.5773 %
Concentration per Run 1	0.4823 ppm	108.4835 %	108.7629 %	105.7310 %	106.4915 %	107.7416 %	105.6668 %
Concentration per Run 2	0.4852 ppm	107.2877 %	108.9920 %	104.6349 %	104.7661 %	107.8045 %	105.2069 %
Concentration per Run 3	0.4907 ppm	105.5763 %	109.4520 %	105.2044 %	103.5247 %	108.2329 %	105.8581 %
Concentration RSD	0.9 %	1.4 %	0.3 %	0.5 %	1.4 %	0.2 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: xL2453188-02d2 WG1974561
Analysis started at: 9/24/2024 6:11:17 PM
Rack 3
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	225.7805 ppm	0.0259 ppm	0.3078 ppm	2.0083 ppm	0.0311 ppm	1,650.7541 [SIC 1000]
Concentration per Run 1	-0.0005 ppm	225.2853 ppm	0.0241 ppm	0.3060 ppm	2.0045 ppm	0.0312 ppm	1,656.4827 ppm
Concentration per Run 2	0.0009 ppm	225.7665 ppm	0.0279 ppm	0.3099 ppm	2.0025 ppm	0.0310 ppm	1,643.5176 ppm
Concentration per Run 3	0.0003 ppm	226.2895 ppm	0.0256 ppm	0.3076 ppm	2.0180 ppm	0.0312 ppm	1,652.2620 ppm
Concentration RSD	306.6 %	0.2 %	7.4 %	0.6 %	0.4 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0080 ppm	0.0026 ppm	0.2146 ppm	0.0253 ppm	28.0971 ppm	40.9240 ppm	0.2459 ppm
Concentration per Run 1	-0.0080 ppm	0.0030 ppm	0.2149 ppm	0.0253 ppm	28.0900 ppm	40.6181 ppm	0.2439 ppm
Concentration per Run 2	-0.0080 ppm	0.0030 ppm	0.2148 ppm	0.0252 ppm	28.0002 ppm	40.8739 ppm	0.2447 ppm
Concentration per Run 3	-0.0080 ppm	0.0019 ppm	0.2141 ppm	0.0254 ppm	28.2010 ppm	41.2800 ppm	0.2491 ppm
Concentration RSD	0.2 %	25.5 %	0.2 %	0.4 %	0.4 %	0.8 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	345.2338 ppm	13.6320 ppm	0.0027 ppm	9.1893 ppm	0.0301 ppm	0.0160 ppm	-0.0007 ppm
Concentration per Run 1	345.7154 ppm	13.7181 ppm	0.0033 ppm	9.1484 ppm	0.0317 ppm	0.0167 ppm	0.0013 ppm
Concentration per Run 2	344.8525 ppm	13.5435 ppm	0.0022 ppm	9.1657 ppm	0.0298 ppm	0.0156 ppm	-0.0044 ppm
Concentration per Run 3	345.1336 ppm	13.6345 ppm	0.0024 ppm	9.2538 ppm	0.0288 ppm	0.0157 ppm	0.0009 ppm
Concentration RSD	0.1 %	0.6 %	21.3 %	0.6 %	4.9 %	3.8 %	438.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0104 ppm	13.7547 ppm	0.0045 ppm	4.7864 ppm	6.6871 ppm	0.0092 ppm	0.0896 ppm
Concentration per Run 1	0.0092 ppm	13.7517 ppm	0.0051 ppm	4.7844 ppm	6.7032 ppm	0.0090 ppm	0.0896 ppm
Concentration per Run 2	0.0091 ppm	13.7680 ppm	0.0037 ppm	4.7732 ppm	6.6690 ppm	0.0084 ppm	0.0898 ppm
Concentration per Run 3	0.0128 ppm	13.7444 ppm	0.0046 ppm	4.8015 ppm	6.6891 ppm	0.0101 ppm	0.0895 ppm
Concentration RSD	20.6 %	0.1 %	15.9 %	0.3 %	0.3 %	9.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6371 ppm	101.3737 %	116.5160 %	90.5027 %	139.8510 %	165.5450 %	141.8282 %
Concentration per Run 1	0.6360 ppm	101.5065 %	116.3230 %	90.4972 %	139.3052 %	164.9553 %	141.8095 %
Concentration per Run 2	0.6388 ppm	100.6958 %	116.7425 %	90.9273 %	139.4064 %	165.8667 %	142.9859 %
Concentration per Run 3	0.6367 ppm	101.9189 %	116.4826 %	90.0836 %	140.8415 %	165.8129 %	140.6891 %
Concentration RSD	0.2 %	0.6 %	0.2 %	0.5 %	0.6 %	0.3 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453188-03d2 WG1974561
Analysis started at: 9/24/2024 6:15:14 PM
Rack 3
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	86.8841 ppm	0.0142 ppm	0.3528 ppm	0.4856 ppm	0.0023 ppm	831.2962 [SIC 1000]
Concentration per Run 1	0.0015 ppm	86.9284 ppm	0.0142 ppm	0.3512 ppm	0.4855 ppm	0.0023 ppm	830.8180 ppm
Concentration per Run 2	0.0005 ppm	86.7128 ppm	0.0162 ppm	0.3517 ppm	0.4834 ppm	0.0023 ppm	828.5713 ppm
Concentration per Run 3	0.0011 ppm	87.0112 ppm	0.0122 ppm	0.3555 ppm	0.4878 ppm	0.0024 ppm	834.4993 ppm
Concentration RSD	49.4 %	0.2 %	14.0 %	0.7 %	0.5 %	3.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0041 ppm	0.0225 ppm	0.3563 ppm	0.1424 ppm	66.0994 ppm	0.6446 ppm	0.0311 ppm
Concentration per Run 1	-0.0040 ppm	0.0225 ppm	0.3560 ppm	0.1426 ppm	65.8418 ppm	0.6424 ppm	0.0317 ppm
Concentration per Run 2	-0.0042 ppm	0.0225 ppm	0.3585 ppm	0.1422 ppm	65.9889 ppm	0.6588 ppm	0.0297 ppm
Concentration per Run 3	-0.0041 ppm	0.0226 ppm	0.3543 ppm	0.1425 ppm	66.4674 ppm	0.6328 ppm	0.0320 ppm
Concentration RSD	2.6 %	0.2 %	0.6 %	0.1 %	0.5 %	2.0 %	4.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.9914 ppm	1.3862 ppm	0.0073 ppm	0.9539 ppm	0.1596 ppm	0.3325 ppm	0.0147 ppm
Concentration per Run 1	37.9645 ppm	1.3839 ppm	0.0068 ppm	0.9530 ppm	0.1589 ppm	0.3335 ppm	0.0119 ppm
Concentration per Run 2	38.0228 ppm	1.3869 ppm	0.0072 ppm	0.9478 ppm	0.1614 ppm	0.3349 ppm	0.0172 ppm
Concentration per Run 3	37.9869 ppm	1.3879 ppm	0.0078 ppm	0.9610 ppm	0.1584 ppm	0.3290 ppm	0.0149 ppm
Concentration RSD	0.1 %	0.1 %	6.7 %	0.7 %	1.0 %	0.9 %	18.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0042 ppm	10.5315 ppm	0.0086 ppm	3.0882 ppm	4.3481 ppm	0.0053 ppm	0.1193 ppm
Concentration per Run 1	0.0000 ppm	10.5576 ppm	0.0078 ppm	3.0864 ppm	4.3429 ppm	0.0044 ppm	0.1194 ppm
Concentration per Run 2	-0.0034 ppm	10.5503 ppm	0.0089 ppm	3.0735 ppm	4.3550 ppm	0.0058 ppm	0.1188 ppm
Concentration per Run 3	-0.0092 ppm	10.4866 ppm	0.0092 ppm	3.1047 ppm	4.3465 ppm	0.0058 ppm	0.1198 ppm
Concentration RSD	111.5 %	0.4 %	8.5 %	0.5 %	0.1 %	16.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1272 ppm	98.8213 %	109.4685 %	91.3928 %	101.0717 %	114.6407 %	104.0309 %
Concentration per Run 1	0.1267 ppm	98.7080 %	109.2692 %	91.7853 %	101.0839 %	114.7081 %	104.7339 %
Concentration per Run 2	0.1271 ppm	98.8456 %	110.0231 %	91.0260 %	100.7999 %	114.4905 %	103.4844 %
Concentration per Run 3	0.1277 ppm	98.9102 %	109.1133 %	91.3670 %	101.3313 %	114.7236 %	103.8743 %
Concentration RSD	0.4 %	0.1 %	0.4 %	0.4 %	0.3 %	0.1 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453188-04d2 WG1974561
Analysis started at: 9/24/2024 6:19:10 PM
Rack 3
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	108.3688 ppm	0.0265 ppm	0.1781 ppm	0.3799 ppm	0.0036 ppm	747.7183 ppm
Concentration per Run 1	0.0002 ppm	108.0450 ppm	0.0273 ppm	0.1749 ppm	0.3789 ppm	0.0035 ppm	745.5221 ppm
Concentration per Run 2	0.0019 ppm	108.7220 ppm	0.0256 ppm	0.1803 ppm	0.3806 ppm	0.0035 ppm	750.0391 ppm
Concentration per Run 3	0.0012 ppm	108.3394 ppm	0.0267 ppm	0.1791 ppm	0.3804 ppm	0.0038 ppm	747.5937 ppm
Concentration RSD	77.0 %	0.3 %	3.3 %	1.6 %	0.2 %	3.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0040 ppm	0.0853 ppm	0.2474 ppm	0.5018 ppm	169.2993 ppm	3.3197 ppm	0.1083 ppm
Concentration per Run 1	-0.0040 ppm	0.0843 ppm	0.2463 ppm	0.5023 ppm	169.1702 ppm	3.3388 ppm	0.1082 ppm
Concentration per Run 2	-0.0041 ppm	0.0873 ppm	0.2482 ppm	0.4998 ppm	169.0017 ppm	3.3454 ppm	0.1087 ppm
Concentration per Run 3	-0.0037 ppm	0.0842 ppm	0.2476 ppm	0.5034 ppm	169.7260 ppm	3.2750 ppm	0.1082 ppm
Concentration RSD	5.5 %	2.1 %	0.4 %	0.4 %	0.2 %	1.2 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	72.8427 ppm	2.1605 ppm	0.0045 ppm	8.8160 ppm	0.2309 ppm	0.0312 ppm	-0.0074 ppm
Concentration per Run 1	72.7413 ppm	2.1481 ppm	0.0036 ppm	8.7425 ppm	0.2288 ppm	0.0316 ppm	-0.0032 ppm
Concentration per Run 2	72.8084 ppm	2.1638 ppm	0.0045 ppm	8.8645 ppm	0.2316 ppm	0.0305 ppm	-0.0094 ppm
Concentration per Run 3	72.9783 ppm	2.1696 ppm	0.0055 ppm	8.8411 ppm	0.2324 ppm	0.0314 ppm	-0.0096 ppm
Concentration RSD	0.2 %	0.5 %	21.1 %	0.7 %	0.8 %	2.0 %	49.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	15.6126 ppm	0.0569 ppm	1.1973 ppm	11.4652 ppm	0.0107 ppm	0.4619 ppm
Concentration per Run 1	-0.0003 ppm	15.4954 ppm	0.0548 ppm	1.1924 ppm	11.4652 ppm	0.0132 ppm	0.4620 ppm
Concentration per Run 2	-0.0018 ppm	15.7021 ppm	0.0580 ppm	1.1961 ppm	11.4642 ppm	0.0087 ppm	0.4611 ppm
Concentration per Run 3	0.0000 ppm	15.6403 ppm	0.0579 ppm	1.2033 ppm	11.4661 ppm	0.0103 ppm	0.4625 ppm
Concentration RSD	138.6 %	0.7 %	3.2 %	0.5 %	0.0 %	20.9 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6279 ppm	101.3187 %	111.3061 %	95.1717 %	113.3749 %	127.6867 %	114.5405 %
Concentration per Run 1	0.6217 ppm	102.5809 %	110.7046 %	95.4638 %	114.6964 %	126.8460 %	114.2416 %
Concentration per Run 2	0.6327 ppm	100.3407 %	111.3827 %	94.3616 %	112.3374 %	128.0977 %	114.2701 %
Concentration per Run 3	0.6292 ppm	101.0345 %	111.8309 %	95.6896 %	113.0908 %	128.1163 %	115.1099 %
Concentration RSD	0.9 %	1.1 %	0.5 %	0.7 %	1.1 %	0.6 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453188-01d2 WG1974561
Analysis started at: 9/24/2024 6:23:08 PM
Rack 3
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	85.0919 ppm	0.0170 ppm	0.1316 ppm	0.2628 ppm	0.0021 ppm	575.6282 ppm
Concentration per Run 1	0.0008 ppm	84.7111 ppm	0.0170 ppm	0.1296 ppm	0.2624 ppm	0.0021 ppm	572.6552 ppm
Concentration per Run 2	0.0006 ppm	85.1448 ppm	0.0195 ppm	0.1315 ppm	0.2625 ppm	0.0022 ppm	575.4180 ppm
Concentration per Run 3	0.0012 ppm	85.4199 ppm	0.0145 ppm	0.1336 ppm	0.2635 ppm	0.0021 ppm	578.8113 ppm
Concentration RSD	34.0 %	0.4 %	14.6 %	1.5 %	0.2 %	4.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0028 ppm	0.0596 ppm	0.1864 ppm	0.3064 ppm	144.9331 ppm	3.4615 ppm	0.0647 ppm
Concentration per Run 1	-0.0026 ppm	0.0606 ppm	0.1869 ppm	0.3051 ppm	144.7442 ppm	3.4829 ppm	0.0650 ppm
Concentration per Run 2	-0.0030 ppm	0.0588 ppm	0.1855 ppm	0.3067 ppm	144.7135 ppm	3.4261 ppm	0.0651 ppm
Concentration per Run 3	-0.0029 ppm	0.0596 ppm	0.1869 ppm	0.3074 ppm	145.3416 ppm	3.4754 ppm	0.0641 ppm
Concentration RSD	7.2 %	1.5 %	0.4 %	0.4 %	0.2 %	0.9 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.5556 ppm	1.7518 ppm	0.0096 ppm	5.6342 ppm	0.1750 ppm	0.0255 ppm	0.0007 ppm
Concentration per Run 1	60.5709 ppm	1.7503 ppm	0.0098 ppm	5.6147 ppm	0.1749 ppm	0.0264 ppm	0.0047 ppm
Concentration per Run 2	60.3602 ppm	1.7440 ppm	0.0096 ppm	5.6301 ppm	0.1737 ppm	0.0248 ppm	-0.0007 ppm
Concentration per Run 3	60.7356 ppm	1.7612 ppm	0.0095 ppm	5.6577 ppm	0.1764 ppm	0.0254 ppm	-0.0021 ppm
Concentration RSD	0.3 %	0.5 %	1.6 %	0.4 %	0.8 %	3.1 %	543.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0021 ppm	6.5966 ppm	0.0186 ppm	1.7753 ppm	9.6659 ppm	0.0089 ppm	0.3089 ppm
Concentration per Run 1	0.0002 ppm	6.6532 ppm	0.0183 ppm	1.7715 ppm	9.6674 ppm	0.0104 ppm	0.3082 ppm
Concentration per Run 2	-0.0059 ppm	6.5040 ppm	0.0185 ppm	1.7772 ppm	9.6265 ppm	0.0101 ppm	0.3092 ppm
Concentration per Run 3	-0.0005 ppm	6.6325 ppm	0.0190 ppm	1.7771 ppm	9.7039 ppm	0.0063 ppm	0.3093 ppm
Concentration RSD	158.2 %	1.2 %	1.9 %	0.2 %	0.4 %	25.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4969 ppm	101.4380 %	109.7077 %	96.1733 %	109.5540 %	120.9096 %	111.4185 %
Concentration per Run 1	0.4972 ppm	100.7171 %	110.7323 %	95.2222 %	108.6877 %	122.2040 %	110.6728 %
Concentration per Run 2	0.4957 ppm	102.4999 %	110.0347 %	96.8334 %	111.0590 %	121.0363 %	111.3745 %
Concentration per Run 3	0.4978 ppm	101.0970 %	108.3561 %	96.4643 %	108.9153 %	119.4886 %	112.2082 %
Concentration RSD	0.2 %	0.9 %	1.1 %	0.9 %	1.2 %	1.1 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974561-3d2 WG1974561
Analysis started at: 9/24/2024 6:27:05 PM
Rack 3
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0406 ppm	90.4485 ppm	0.0952 ppm	0.7974 ppm	1.5444 ppm	0.0346 ppm	561.1183 ppm
Concentration per Run 1	0.0404 ppm	90.7378 ppm	0.0934 ppm	0.7888 ppm	1.5421 ppm	0.0343 ppm	561.5905 ppm
Concentration per Run 2	0.0405 ppm	90.4073 ppm	0.0947 ppm	0.7993 ppm	1.5489 ppm	0.0348 ppm	561.9060 ppm
Concentration per Run 3	0.0407 ppm	90.2002 ppm	0.0973 ppm	0.8042 ppm	1.5423 ppm	0.0346 ppm	559.8583 ppm
Concentration RSD	0.3 %	0.3 %	2.1 %	1.0 %	0.3 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0324 ppm	0.3703 ppm	0.2971 ppm	0.4772 ppm	154.2109 ppm	9.3430 ppm	0.0653 ppm
Concentration per Run 1	0.0325 ppm	0.3686 ppm	0.2959 ppm	0.4754 ppm	153.3890 ppm	9.3463 ppm	0.0631 ppm
Concentration per Run 2	0.0328 ppm	0.3737 ppm	0.2970 ppm	0.4789 ppm	155.3706 ppm	9.4234 ppm	0.0673 ppm
Concentration per Run 3	0.0318 ppm	0.3686 ppm	0.2983 ppm	0.4774 ppm	153.8732 ppm	9.2594 ppm	0.0653 ppm
Concentration RSD	1.6 %	0.8 %	0.4 %	0.4 %	0.7 %	0.9 %	3.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	67.1574 ppm	2.1505 ppm	0.6690 ppm	12.8679 ppm	0.4789 ppm	0.3698 ppm	0.2924 ppm
Concentration per Run 1	66.9438 ppm	2.1565 ppm	0.6596 ppm	12.8356 ppm	0.4741 ppm	0.3698 ppm	0.2867 ppm
Concentration per Run 2	67.2477 ppm	2.1486 ppm	0.6704 ppm	12.8328 ppm	0.4796 ppm	0.3687 ppm	0.3012 ppm
Concentration per Run 3	67.2807 ppm	2.1464 ppm	0.6772 ppm	12.9352 ppm	0.4828 ppm	0.3709 ppm	0.2892 ppm
Concentration RSD	0.3 %	0.2 %	1.3 %	0.5 %	0.9 %	0.3 %	2.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0721 ppm	11.8928 ppm	0.6408 ppm	1.9970 ppm	11.9707 ppm	0.0908 ppm	0.6690 ppm
Concentration per Run 1	0.0724 ppm	11.9225 ppm	0.6324 ppm	1.9889 ppm	11.9433 ppm	0.0926 ppm	0.6657 ppm
Concentration per Run 2	0.0725 ppm	11.9447 ppm	0.6431 ppm	2.0037 ppm	11.9488 ppm	0.0890 ppm	0.6695 ppm
Concentration per Run 3	0.0714 ppm	11.8112 ppm	0.6469 ppm	1.9983 ppm	12.0201 ppm	0.0909 ppm	0.6720 ppm
Concentration RSD	0.8 %	0.6 %	1.2 %	0.4 %	0.4 %	2.0 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7851 ppm	100.8609 %	109.4634 %	96.3990 %	109.3153 %	121.5102 %	110.4737 %
Concentration per Run 1	0.7787 ppm	101.8743 %	109.3302 %	96.8124 %	110.0462 %	121.9645 %	110.9234 %
Concentration per Run 2	0.7839 ppm	101.2503 %	109.3325 %	96.2482 %	110.0085 %	120.9244 %	110.1254 %
Concentration per Run 3	0.7925 ppm	99.4580 %	109.7276 %	96.1363 %	107.8913 %	121.6417 %	110.3724 %
Concentration RSD	0.9 %	1.2 %	0.2 %	0.4 %	1.1 %	0.4 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974561-4d2 WG1974561
Analysis started at: 9/24/2024 6:31:01 PM
Rack 3
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	92.6888 ppm	0.0161 ppm	0.1456 ppm	0.3030 ppm	0.0024 ppm	667.6062 ppm
Concentration per Run 1	0.0010 ppm	93.0885 ppm	0.0169 ppm	0.1467 ppm	0.3037 ppm	0.0026 ppm	671.2615 ppm
Concentration per Run 2	0.0005 ppm	92.6093 ppm	0.0163 ppm	0.1456 ppm	0.3032 ppm	0.0023 ppm	666.2821 ppm
Concentration per Run 3	0.0003 ppm	92.3686 ppm	0.0151 ppm	0.1444 ppm	0.3020 ppm	0.0023 ppm	665.2751 ppm
Concentration RSD	67.6 %	0.4 %	5.7 %	0.8 %	0.3 %	5.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0033 ppm	0.0620 ppm	0.1615 ppm	0.2739 ppm	134.0149 ppm	4.5174 ppm	0.0714 ppm
Concentration per Run 1	-0.0033 ppm	0.0632 ppm	0.1613 ppm	0.2730 ppm	134.6139 ppm	4.5388 ppm	0.0725 ppm
Concentration per Run 2	-0.0033 ppm	0.0611 ppm	0.1612 ppm	0.2741 ppm	133.7822 ppm	4.5303 ppm	0.0712 ppm
Concentration per Run 3	-0.0034 ppm	0.0617 ppm	0.1621 ppm	0.2747 ppm	133.6486 ppm	4.4830 ppm	0.0706 ppm
Concentration RSD	1.3 %	1.8 %	0.3 %	0.3 %	0.4 %	0.7 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	67.9973 ppm	1.8060 ppm	0.0065 ppm	5.7611 ppm	0.1646 ppm	0.0304 ppm	0.0015 ppm
Concentration per Run 1	67.8292 ppm	1.8095 ppm	0.0067 ppm	5.7872 ppm	0.1645 ppm	0.0292 ppm	-0.0003 ppm
Concentration per Run 2	67.9901 ppm	1.8074 ppm	0.0063 ppm	5.7418 ppm	0.1654 ppm	0.0307 ppm	0.0031 ppm
Concentration per Run 3	68.1726 ppm	1.8010 ppm	0.0063 ppm	5.7542 ppm	0.1640 ppm	0.0314 ppm	0.0017 ppm
Concentration RSD	0.3 %	0.2 %	3.8 %	0.4 %	0.4 %	3.7 %	115.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	8.2811 ppm	0.0158 ppm	2.7629 ppm	10.4271 ppm	0.0088 ppm	0.3282 ppm
Concentration per Run 1	0.0001 ppm	8.3507 ppm	0.0156 ppm	2.7778 ppm	10.4179 ppm	0.0081 ppm	0.3276 ppm
Concentration per Run 2	0.0015 ppm	8.2612 ppm	0.0153 ppm	2.7528 ppm	10.4098 ppm	0.0112 ppm	0.3280 ppm
Concentration per Run 3	0.0000 ppm	8.2313 ppm	0.0166 ppm	2.7580 ppm	10.4535 ppm	0.0072 ppm	0.3289 ppm
Concentration RSD	147.3 %	0.8 %	4.3 %	0.5 %	0.2 %	24.0 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6028 ppm	101.2358 %	109.7968 %	95.2947 %	110.0154 %	121.9568 %	111.1957 %
Concentration per Run 1	0.6031 ppm	100.6738 %	109.1454 %	94.9523 %	109.6568 %	121.6135 %	111.1520 %
Concentration per Run 2	0.6007 ppm	101.9408 %	109.4133 %	96.5041 %	110.4114 %	121.1451 %	112.2372 %
Concentration per Run 3	0.6045 ppm	101.0928 %	110.8317 %	94.4278 %	109.9779 %	123.1117 %	110.1980 %
Concentration RSD	0.3 %	0.6 %	0.8 %	1.1 %	0.3 %	0.8 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974561-5d2 WG1974561
Analysis started at: 9/24/2024 6:34:58 PM
Rack 3
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0470 ppm	85.5920 ppm	0.1334 ppm	1.0420 ppm	2.0684 ppm	0.0481 ppm	576.4312 ppm
Concentration per Run 1	0.0464 ppm	85.7493 ppm	0.1337 ppm	1.0394 ppm	2.0790 ppm	0.0483 ppm	578.0623 ppm
Concentration per Run 2	0.0468 ppm	85.6472 ppm	0.1326 ppm	1.0396 ppm	2.0611 ppm	0.0482 ppm	577.2132 ppm
Concentration per Run 3	0.0479 ppm	85.3794 ppm	0.1339 ppm	1.0471 ppm	2.0652 ppm	0.0479 ppm	574.0181 ppm
Concentration RSD	1.7 %	0.2 %	0.5 %	0.4 %	0.5 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0447 ppm	0.4951 ppm	0.3622 ppm	0.5320 ppm	143.7557 ppm	13.2635 ppm	0.0644 ppm
Concentration per Run 1	0.0447 ppm	0.4946 ppm	0.3625 ppm	0.5304 ppm	144.1526 ppm	13.2779 ppm	0.0650 ppm
Concentration per Run 2	0.0433 ppm	0.4906 ppm	0.3617 ppm	0.5328 ppm	143.9551 ppm	13.2794 ppm	0.0647 ppm
Concentration per Run 3	0.0460 ppm	0.5001 ppm	0.3624 ppm	0.5328 ppm	143.1595 ppm	13.2331 ppm	0.0637 ppm
Concentration RSD	3.1 %	1.0 %	0.1 %	0.3 %	0.4 %	0.2 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	68.3275 ppm	2.1597 ppm	0.9480 ppm	15.3188 ppm	0.5981 ppm	0.4913 ppm	0.4507 ppm
Concentration per Run 1	68.3761 ppm	2.1741 ppm	0.9402 ppm	15.3825 ppm	0.5962 ppm	0.4932 ppm	0.4440 ppm
Concentration per Run 2	68.1632 ppm	2.1651 ppm	0.9494 ppm	15.3498 ppm	0.5989 ppm	0.4889 ppm	0.4579 ppm
Concentration per Run 3	68.4432 ppm	2.1399 ppm	0.9545 ppm	15.2242 ppm	0.5993 ppm	0.4918 ppm	0.4502 ppm
Concentration RSD	0.2 %	0.8 %	0.8 %	0.5 %	0.3 %	0.4 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1092 ppm	7.1526 ppm	0.9033 ppm	2.6368 ppm	10.4031 ppm	0.1097 ppm	0.7710 ppm
Concentration per Run 1	0.1053 ppm	7.1627 ppm	0.9019 ppm	2.6452 ppm	10.3995 ppm	0.1086 ppm	0.7693 ppm
Concentration per Run 2	0.1077 ppm	7.0743 ppm	0.9020 ppm	2.6378 ppm	10.3836 ppm	0.1120 ppm	0.7715 ppm
Concentration per Run 3	0.1145 ppm	7.2208 ppm	0.9060 ppm	2.6275 ppm	10.4261 ppm	0.1084 ppm	0.7723 ppm
Concentration RSD	4.4 %	1.0 %	0.3 %	0.3 %	0.2 %	1.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9208 ppm	100.4689 %	110.2225 %	95.5991 %	108.3232 %	121.5673 %	110.3261 %
Concentration per Run 1	0.9207 ppm	100.3433 %	110.3395 %	95.5789 %	107.7164 %	121.9762 %	110.4913 %
Concentration per Run 2	0.9202 ppm	99.7096 %	110.1233 %	95.7355 %	107.5621 %	121.7820 %	110.1817 %
Concentration per Run 3	0.9214 ppm	101.3537 %	110.2047 %	95.4830 %	109.6910 %	120.9436 %	110.3055 %
Concentration RSD	0.1 %	0.8 %	0.1 %	0.1 %	1.1 %	0.5 %	0.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1974561-6d10 WG1974561
Analysis started at: 9/24/2024 6:38:54 PM
Rack 3
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	17.5086 ppm	0.0021 ppm	0.0287 ppm	0.0542 ppm	0.0004 ppm	124.8678 ppm
Concentration per Run 1	-0.0001 ppm	17.4952 ppm	0.0016 ppm	0.0292 ppm	0.0544 ppm	0.0004 ppm	124.9170 ppm
Concentration per Run 2	0.0005 ppm	17.4567 ppm	0.0001 ppm	0.0274 ppm	0.0540 ppm	0.0005 ppm	124.4876 ppm
Concentration per Run 3	0.0005 ppm	17.5739 ppm	0.0047 ppm	0.0296 ppm	0.0541 ppm	0.0004 ppm	125.1988 ppm
Concentration RSD	109.8 %	0.3 %	109.1 %	4.1 %	0.4 %	16.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0131 ppm	0.0395 ppm	0.0636 ppm	31.8333 ppm	0.6933 ppm	0.0145 ppm
Concentration per Run 1	-0.0005 ppm	0.0126 ppm	0.0396 ppm	0.0638 ppm	31.8241 ppm	0.6828 ppm	0.0154 ppm
Concentration per Run 2	-0.0006 ppm	0.0142 ppm	0.0393 ppm	0.0636 ppm	31.8140 ppm	0.7068 ppm	0.0138 ppm
Concentration per Run 3	-0.0006 ppm	0.0125 ppm	0.0395 ppm	0.0635 ppm	31.8617 ppm	0.6902 ppm	0.0142 ppm
Concentration RSD	8.3 %	7.4 %	0.3 %	0.3 %	0.1 %	1.8 %	5.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.0308 ppm	0.3723 ppm	0.0041 ppm	1.1475 ppm	0.0384 ppm	0.0063 ppm	-0.0009 ppm
Concentration per Run 1	13.0591 ppm	0.3719 ppm	0.0041 ppm	1.1494 ppm	0.0383 ppm	0.0056 ppm	0.0043 ppm
Concentration per Run 2	13.0220 ppm	0.3731 ppm	0.0046 ppm	1.1461 ppm	0.0389 ppm	0.0063 ppm	-0.0022 ppm
Concentration per Run 3	13.0113 ppm	0.3721 ppm	0.0037 ppm	1.1471 ppm	0.0380 ppm	0.0070 ppm	-0.0048 ppm
Concentration RSD	0.2 %	0.2 %	10.6 %	0.1 %	1.2 %	11.0 %	513.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	1.3228 ppm	0.0056 ppm	0.3722 ppm	2.0043 ppm	0.0024 ppm	0.0630 ppm
Concentration per Run 1	-0.0019 ppm	1.3364 ppm	0.0062 ppm	0.3723 ppm	2.0174 ppm	0.0016 ppm	0.0632 ppm
Concentration per Run 2	0.0014 ppm	1.3151 ppm	0.0048 ppm	0.3725 ppm	1.9953 ppm	0.0022 ppm	0.0634 ppm
Concentration per Run 3	-0.0015 ppm	1.3169 ppm	0.0060 ppm	0.3719 ppm	2.0001 ppm	0.0033 ppm	0.0626 ppm
Concentration RSD	267.7 %	0.9 %	13.2 %	0.1 %	0.6 %	36.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1065 ppm	104.7867 %	106.8648 %	100.9291 %	104.3498 %	107.8306 %	105.9072 %
Concentration per Run 1	0.1071 ppm	104.5801 %	106.6424 %	101.4667 %	104.0782 %	108.1326 %	106.3180 %
Concentration per Run 2	0.1059 ppm	105.3829 %	106.6143 %	100.4681 %	105.0344 %	107.1867 %	105.6349 %
Concentration per Run 3	0.1066 ppm	104.3971 %	107.3377 %	100.8525 %	103.9369 %	108.1724 %	105.7686 %
Concentration RSD	0.6 %	0.5 %	0.4 %	0.5 %	0.6 %	0.5 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 6:42:51 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4937 ppm	0.4500 ppm	0.4631 ppm	0.4735 ppm	0.4670 ppm	0.4773 ppm	0.4597 ppm
Concentration per Run 1	0.4899 ppm	0.4538 ppm	0.4638 ppm	0.4695 ppm	0.4734 ppm	0.4809 ppm	0.4653 ppm
Concentration per Run 2	0.4967 ppm	0.4006 ppm	0.4660 ppm	0.4775 ppm	0.4217 ppm	0.4323 ppm	0.4133 ppm
Concentration per Run 3	0.4945 ppm	0.4956 ppm	0.4594 ppm	0.4735 ppm	0.5059 ppm	0.5186 ppm	0.5005 ppm
Recovery Percentage 1	98.742 %	89.995 %	92.616 %	94.703 %	93.402 %	95.450 %	91.943 %
Concentration RSD	0.7 %	10.6 %	0.7 %	0.8 %	9.1 %	9.1 %	9.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4823 ppm	0.4914 ppm	0.4699 ppm	0.4755 ppm	0.4780 ppm	4.8465 ppm	0.4626 ppm
Concentration per Run 1	0.4796 ppm	0.4903 ppm	0.4662 ppm	0.4728 ppm	0.4817 ppm	4.8531 ppm	0.4656 ppm
Concentration per Run 2	0.4858 ppm	0.4931 ppm	0.4714 ppm	0.4784 ppm	0.4334 ppm	4.4354 ppm	0.4225 ppm
Concentration per Run 3	0.4816 ppm	0.4909 ppm	0.4720 ppm	0.4753 ppm	0.5191 ppm	5.2510 ppm	0.4997 ppm
Recovery Percentage 1	96.467 %	98.286 %	93.975 %	95.100 %	95.610 %	96.930 %	92.518 %
Concentration RSD	0.7 %	0.3 %	0.7 %	0.6 %	9.0 %	8.4 %	8.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4715 ppm	0.4567 ppm	0.4716 ppm	9.2805 ppm	0.4870 ppm	0.4780 ppm	0.4831 ppm
Concentration per Run 1	0.4668 ppm	0.4592 ppm	0.4696 ppm	9.3619 ppm	0.4862 ppm	0.4810 ppm	0.4780 ppm
Concentration per Run 2	0.4732 ppm	0.4132 ppm	0.4705 ppm	8.4724 ppm	0.4886 ppm	0.4770 ppm	0.4846 ppm
Concentration per Run 3	0.4744 ppm	0.4977 ppm	0.4746 ppm	10.0073 ppm	0.4863 ppm	0.4759 ppm	0.4868 ppm
Recovery Percentage 1	94.295 %	91.338 %	94.317 %	92.805 %	97.404 %	95.592 %	96.626 %
Concentration RSD	0.9 %	9.3 %	0.6 %	8.3 %	0.3 %	0.6 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4763 ppm	5.1245 ppm	0.4612 ppm	0.4447 ppm	0.4834 ppm	0.4801 ppm	0.4691 ppm
Concentration per Run 1	0.4765 ppm	5.0834 ppm	0.4564 ppm	0.4517 ppm	0.4802 ppm	0.4824 ppm	0.4667 ppm
Concentration per Run 2	0.4759 ppm	5.1414 ppm	0.4650 ppm	0.4009 ppm	0.4852 ppm	0.4772 ppm	0.4712 ppm
Concentration per Run 3	0.4765 ppm	5.1486 ppm	0.4621 ppm	0.4815 ppm	0.4848 ppm	0.4807 ppm	0.4694 ppm
Recovery Percentage 1	95.259 %	97.609 %	92.237 %	88.947 %	96.681 %	96.019 %	93.820 %
Concentration RSD	0.1 %	0.7 %	0.9 %	9.2 %	0.6 %	0.6 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4843 ppm	106.2345 %	108.7866 %	105.7072 %	104.0871 %	106.6133 %	105.3016 %
Concentration per Run 1	0.4818 ppm	106.6592 %	107.2442 %	104.6878 %	104.6002 %	105.7772 %	104.2918 %
Concentration per Run 2	0.4870 ppm	105.2207 %	117.8373 %	106.6125 %	103.1477 %	113.7290 %	106.2441 %
Concentration per Run 3	0.4841 ppm	106.8237 %	101.2784 %	105.8212 %	104.5133 %	100.3337 %	105.3691 %
Recovery Percentage 1	96.861 %						
Concentration RSD	0.5 %	0.8 %	7.7 %	0.9 %	0.8 %	6.3 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 6:46:47 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	-0.0007 ppm	0.0014 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.0005 ppm	0.0053 ppm	0.0016 ppm	0.0009 ppm	-0.0002 ppm	0.0000 ppm	0.0025 ppm
Concentration per Run 2	0.0006 ppm	-0.0113 ppm	0.0008 ppm	0.0026 ppm	-0.0001 ppm	-0.0001 ppm	-0.0063 ppm
Concentration per Run 3	0.0000 ppm	0.0039 ppm	0.0017 ppm	0.0021 ppm	-0.0001 ppm	0.0000 ppm	0.0034 ppm
Recovery Percentage 1	5.228 %	-0.698 %	27.401 %	6.232 %	-1.295 %	-1.045 %	-0.125 %
Concentration RSD	96.5 %	1,319.1 %	35.4 %	48.2 %	55.5 %	63.2 %	4,320.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	-0.0002 ppm	0.0040 ppm	-0.0161 ppm	0.0020 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0006 ppm	0.0024 ppm	-0.0257 ppm	0.0022 ppm
Concentration per Run 2	-0.0002 ppm	-0.0003 ppm	0.0008 ppm	-0.0003 ppm	0.0049 ppm	-0.0275 ppm	0.0023 ppm
Concentration per Run 3	-0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0046 ppm	0.0048 ppm	0.0014 ppm
Recovery Percentage 1	-2.302 %	-0.852 %	2.126 %	-1.832 %	7.940 %	-0.646 %	39.401 %
Concentration RSD	100.0 %	118.1 %	287.3 %	272.4 %	34.1 %	112.6 %	23.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0001 ppm	0.0012 ppm	-0.0032 ppm	-0.0003 ppm	0.0009 ppm	-0.0011 ppm
Concentration per Run 1	0.0031 ppm	0.0001 ppm	0.0010 ppm	-0.0005 ppm	0.0002 ppm	0.0020 ppm	-0.0004 ppm
Concentration per Run 2	0.0009 ppm	-0.0001 ppm	0.0023 ppm	-0.0073 ppm	-0.0003 ppm	-0.0011 ppm	-0.0025 ppm
Concentration per Run 3	-0.0009 ppm	0.0003 ppm	0.0003 ppm	-0.0018 ppm	-0.0006 ppm	0.0017 ppm	-0.0005 ppm
Recovery Percentage 1	1.015 %	0.815 %	2.429 %	-0.160 %	-1.021 %	8.895 %	-2.270 %
Concentration RSD	202.0 %	241.3 %	83.6 %	112.8 %	165.5 %	190.6 %	101.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0019 ppm	0.0003 ppm	-0.0011 ppm	0.0001 ppm	0.0011 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0018 ppm	0.0040 ppm	-0.0004 ppm	0.0001 ppm	0.0012 ppm	-0.0008 ppm	-0.0004 ppm
Concentration per Run 2	-0.0028 ppm	0.0006 ppm	-0.0010 ppm	0.0002 ppm	0.0012 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 3	-0.0013 ppm	-0.0039 ppm	-0.0019 ppm	0.0001 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm
Recovery Percentage 1	-19.462 %	0.050 %	-2.245 %	1.383 %	10.535 %	-1.715 %	-0.074 %
Concentration RSD	39.8 %	1,570.4 %	70.6 %	41.6 %	28.3 %	165.9 %	5,624.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0017 ppm	106.6918 %	105.9320 %	105.7604 %	106.5410 %	105.7153 %	106.1432 %
Concentration per Run 1	-0.0015 ppm	106.7095 %	106.7806 %	105.5255 %	106.4777 %	107.2421 %	105.8948 %
Concentration per Run 2	-0.0018 ppm	106.8895 %	105.7792 %	106.4884 %	106.9422 %	104.6070 %	106.7370 %
Concentration per Run 3	-0.0017 ppm	106.4763 %	105.2361 %	105.2672 %	106.2031 %	105.2969 %	105.7979 %
Recovery Percentage 1	-33.564 %						
Concentration RSD	7.4 %	0.2 %	0.7 %	0.6 %	0.4 %	1.3 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: TEST PS 1121 DMC
Analysis started at: 9/24/2024 6:50:43 PM
Rack 3
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0472 ppm	1.7784 ppm	0.1085 ppm	0.9092 ppm	1.8199 ppm	0.0464 ppm	9.1608 ppm
Concentration per Run 1	0.0475 ppm	1.7795 ppm	0.1088 ppm	0.9054 ppm	1.8204 ppm	0.0466 ppm	9.1654 ppm
Concentration per Run 2	0.0473 ppm	1.7818 ppm	0.1100 ppm	0.9098 ppm	1.8176 ppm	0.0463 ppm	9.1531 ppm
Concentration per Run 3	0.0469 ppm	1.7738 ppm	0.1068 ppm	0.9125 ppm	1.8217 ppm	0.0463 ppm	9.1638 ppm
Concentration RSD	0.6 %	0.2 %	1.5 %	0.4 %	0.1 %	0.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0482 ppm	0.4603 ppm	0.1807 ppm	0.2301 ppm	0.9281 ppm	9.4348 ppm	0.0002 ppm
Concentration per Run 1	0.0477 ppm	0.4592 ppm	0.1797 ppm	0.2297 ppm	0.9307 ppm	9.4569 ppm	0.0001 ppm
Concentration per Run 2	0.0487 ppm	0.4636 ppm	0.1807 ppm	0.2300 ppm	0.9253 ppm	9.4121 ppm	0.0005 ppm
Concentration per Run 3	0.0482 ppm	0.4580 ppm	0.1816 ppm	0.2308 ppm	0.9283 ppm	9.4353 ppm	0.0001 ppm
Concentration RSD	1.0 %	0.6 %	0.5 %	0.2 %	0.3 %	0.2 %	111.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.2425 ppm	0.4572 ppm	0.9090 ppm	9.3155 ppm	0.4625 ppm	0.4925 ppm	0.3992 ppm
Concentration per Run 1	9.2793 ppm	0.4574 ppm	0.8977 ppm	9.3115 ppm	0.4592 ppm	0.4910 ppm	0.3882 ppm
Concentration per Run 2	9.2036 ppm	0.4565 ppm	0.9118 ppm	9.3153 ppm	0.4647 ppm	0.4942 ppm	0.4017 ppm
Concentration per Run 3	9.2447 ppm	0.4578 ppm	0.9176 ppm	9.3197 ppm	0.4637 ppm	0.4924 ppm	0.4078 ppm
Concentration RSD	0.4 %	0.2 %	1.1 %	0.0 %	0.6 %	0.3 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1109 ppm	0.3697 ppm	0.8949 ppm	0.8929 ppm	0.9335 ppm	0.1129 ppm	0.4587 ppm
Concentration per Run 1	0.1076 ppm	0.3647 ppm	0.8856 ppm	0.8942 ppm	0.9368 ppm	0.1135 ppm	0.4588 ppm
Concentration per Run 2	0.1128 ppm	0.3702 ppm	0.9008 ppm	0.8891 ppm	0.9278 ppm	0.1113 ppm	0.4586 ppm
Concentration per Run 3	0.1123 ppm	0.3742 ppm	0.8985 ppm	0.8955 ppm	0.9359 ppm	0.1139 ppm	0.4588 ppm
Concentration RSD	2.6 %	1.3 %	0.9 %	0.4 %	0.5 %	1.2 %	0.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4615 ppm	107.0812 %	107.0976 %	104.8353 %	104.9431 %	106.3752 %	104.8135 %
Concentration per Run 1	0.4593 ppm	107.9719 %	107.7277 %	105.0220 %	105.7985 %	106.9684 %	105.2231 %
Concentration per Run 2	0.4628 ppm	106.3265 %	107.3649 %	104.4741 %	104.4308 %	106.6316 %	104.4176 %
Concentration per Run 3	0.4623 ppm	106.9452 %	106.2001 %	105.0098 %	104.5998 %	105.5256 %	104.7998 %
Concentration RSD	0.4 %	0.8 %	0.7 %	0.3 %	0.7 %	0.7 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453188-05d2 WG1974561
Analysis started at: 9/24/2024 6:54:39 PM
Rack 3
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0011 ppm	149.6809 ppm	0.0102 ppm	0.1133 ppm	0.3618 ppm	0.0024 ppm	513.4453 ppm
Concentration per Run 1	0.0009 ppm	150.1978 ppm	0.0103 ppm	0.1142 ppm	0.3636 ppm	0.0021 ppm	514.9871 ppm
Concentration per Run 2	0.0011 ppm	149.4506 ppm	0.0109 ppm	0.1135 ppm	0.3604 ppm	0.0027 ppm	513.1153 ppm
Concentration per Run 3	0.0014 ppm	149.3944 ppm	0.0095 ppm	0.1121 ppm	0.3614 ppm	0.0024 ppm	512.2334 ppm
Concentration RSD	21.5 %	0.3 %	6.9 %	0.9 %	0.5 %	11.9 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0024 ppm	0.1098 ppm	0.3723 ppm	0.5014 ppm	217.9197 ppm	10.7379 ppm	0.1205 ppm
Concentration per Run 1	-0.0022 ppm	0.1089 ppm	0.3743 ppm	0.5002 ppm	217.1642 ppm	10.8132 ppm	0.1226 ppm
Concentration per Run 2	-0.0025 ppm	0.1107 ppm	0.3719 ppm	0.5025 ppm	218.5741 ppm	10.6649 ppm	0.1197 ppm
Concentration per Run 3	-0.0024 ppm	0.1099 ppm	0.3708 ppm	0.5014 ppm	218.0208 ppm	10.7357 ppm	0.1192 ppm
Concentration RSD	5.3 %	0.8 %	0.5 %	0.2 %	0.3 %	0.7 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	108.9341 ppm	2.9266 ppm	0.0179 ppm	19.0154 ppm	0.3119 ppm	0.0431 ppm	0.0156 ppm
Concentration per Run 1	109.1000 ppm	2.9359 ppm	0.0179 ppm	19.1055 ppm	0.3142 ppm	0.0417 ppm	0.0150 ppm
Concentration per Run 2	108.8984 ppm	2.9232 ppm	0.0182 ppm	19.0635 ppm	0.3100 ppm	0.0448 ppm	0.0167 ppm
Concentration per Run 3	108.8039 ppm	2.9209 ppm	0.0174 ppm	18.8773 ppm	0.3116 ppm	0.0428 ppm	0.0150 ppm
Concentration RSD	0.1 %	0.3 %	2.1 %	0.6 %	0.7 %	3.7 %	6.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0013 ppm	16.4439 ppm	0.0173 ppm	2.3057 ppm	16.9438 ppm	0.0144 ppm	0.4719 ppm
Concentration per Run 1	-0.0010 ppm	16.3772 ppm	0.0163 ppm	2.3053 ppm	17.0232 ppm	0.0159 ppm	0.4717 ppm
Concentration per Run 2	-0.0044 ppm	16.3875 ppm	0.0180 ppm	2.3079 ppm	16.9318 ppm	0.0129 ppm	0.4726 ppm
Concentration per Run 3	0.0016 ppm	16.5670 ppm	0.0177 ppm	2.3038 ppm	16.8765 ppm	0.0145 ppm	0.4712 ppm
Concentration RSD	242.3 %	0.6 %	5.3 %	0.1 %	0.4 %	10.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2959 ppm	104.2279 %	112.6076 %	100.3920 %	115.5049 %	127.8079 %	116.4178 %
Concentration per Run 1	0.2957 ppm	104.3306 %	112.3675 %	101.0871 %	115.3492 %	128.3177 %	116.5813 %
Concentration per Run 2	0.2968 ppm	103.6385 %	112.9780 %	99.8295 %	114.9840 %	128.0274 %	116.1252 %
Concentration per Run 3	0.2952 ppm	104.7147 %	112.4773 %	100.2595 %	116.1814 %	127.0786 %	116.5468 %
Concentration RSD	0.3 %	0.5 %	0.3 %	0.6 %	0.5 %	0.5 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453188-06d2 WG1974561
Analysis started at: 9/24/2024 6:58:36 PM
Rack 3
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0176 ppm	123.2365 ppm	0.0270 ppm	0.2148 ppm	0.3879 ppm	0.0052 ppm	849.5285 [SIC 1000]
Concentration per Run 1	0.0179 ppm	122.4880 ppm	0.0273 ppm	0.2134 ppm	0.3871 ppm	0.0052 ppm	846.3314 ppm
Concentration per Run 2	0.0171 ppm	123.5349 ppm	0.0280 ppm	0.2140 ppm	0.3879 ppm	0.0052 ppm	850.2747 ppm
Concentration per Run 3	0.0178 ppm	123.6865 ppm	0.0258 ppm	0.2171 ppm	0.3886 ppm	0.0053 ppm	851.9793 ppm
Concentration RSD	2.4 %	0.5 %	4.2 %	0.9 %	0.2 %	0.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0017 ppm	0.0610 ppm	0.3329 ppm	0.8093 ppm	142.6609 ppm	4.5638 ppm	0.0624 ppm
Concentration per Run 1	0.0019 ppm	0.0615 ppm	0.3319 ppm	0.8077 ppm	142.8702 ppm	4.5757 ppm	0.0640 ppm
Concentration per Run 2	0.0015 ppm	0.0603 ppm	0.3320 ppm	0.8101 ppm	142.2317 ppm	4.5358 ppm	0.0608 ppm
Concentration per Run 3	0.0019 ppm	0.0611 ppm	0.3349 ppm	0.8100 ppm	142.8809 ppm	4.5800 ppm	0.0623 ppm
Concentration RSD	13.2 %	0.9 %	0.5 %	0.2 %	0.3 %	0.5 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	56.7982 ppm	1.7915 ppm	0.0118 ppm	10.8290 ppm	0.2727 ppm	0.2591 ppm	-0.0002 ppm
Concentration per Run 1	56.7530 ppm	1.7910 ppm	0.0111 ppm	10.7392 ppm	0.2695 ppm	0.2614 ppm	0.0014 ppm
Concentration per Run 2	56.5481 ppm	1.7960 ppm	0.0122 ppm	10.8415 ppm	0.2738 ppm	0.2587 ppm	0.0024 ppm
Concentration per Run 3	57.0937 ppm	1.7875 ppm	0.0122 ppm	10.9062 ppm	0.2747 ppm	0.2573 ppm	-0.0042 ppm
Concentration RSD	0.5 %	0.2 %	5.0 %	0.8 %	1.0 %	0.8 %	2,182.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0041 ppm	6.0221 ppm	0.1417 ppm	1.6178 ppm	5.4822 ppm	0.0055 ppm	0.3208 ppm
Concentration per Run 1	-0.0075 ppm	6.0184 ppm	0.1387 ppm	1.6160 ppm	5.4711 ppm	0.0047 ppm	0.3198 ppm
Concentration per Run 2	-0.0014 ppm	5.9917 ppm	0.1436 ppm	1.6142 ppm	5.4552 ppm	0.0058 ppm	0.3209 ppm
Concentration per Run 3	-0.0034 ppm	6.0563 ppm	0.1429 ppm	1.6232 ppm	5.5202 ppm	0.0060 ppm	0.3217 ppm
Concentration RSD	75.2 %	0.5 %	1.9 %	0.3 %	0.6 %	12.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.1527 ppm	100.2486 %	109.8116 %	91.3964 %	107.9570 %	121.1519 %	108.4628 %
Concentration per Run 1	2.1252 ppm	100.9868 %	109.9512 %	91.9602 %	108.6045 %	120.5453 %	108.9309 %
Concentration per Run 2	2.1659 ppm	99.6970 %	109.1693 %	90.7398 %	107.5917 %	120.6539 %	107.9893 %
Concentration per Run 3	2.1669 ppm	100.0621 %	110.3142 %	91.4891 %	107.6749 %	122.2564 %	108.4682 %
Concentration RSD	1.1 %	0.7 %	0.5 %	0.7 %	0.5 %	0.8 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453311-01d2 WG1974561
Analysis started at: 9/24/2024 7:02:32 PM
Rack 3
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0032 ppm	58.5734 ppm	0.0710 ppm	0.0297 ppm	2.8135 ppm	0.0038 ppm	284.5858 ppm
Concentration per Run 1	0.0035 ppm	58.4884 ppm	0.0723 ppm	0.0313 ppm	2.8141 ppm	0.0038 ppm	284.6161 ppm
Concentration per Run 2	0.0033 ppm	58.9557 ppm	0.0718 ppm	0.0295 ppm	2.8136 ppm	0.0038 ppm	285.1914 ppm
Concentration per Run 3	0.0028 ppm	58.2762 ppm	0.0690 ppm	0.0282 ppm	2.8126 ppm	0.0039 ppm	283.9500 ppm
Concentration RSD	10.2 %	0.6 %	2.6 %	5.2 %	0.0 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0109 ppm	0.0513 ppm	0.1746 ppm	0.7965 ppm	162.2883 ppm	6.7329 ppm	0.0690 ppm
Concentration per Run 1	0.0110 ppm	0.0516 ppm	0.1754 ppm	0.8000 ppm	162.4666 ppm	6.7760 ppm	0.0701 ppm
Concentration per Run 2	0.0107 ppm	0.0509 ppm	0.1740 ppm	0.7964 ppm	162.0296 ppm	6.7123 ppm	0.0694 ppm
Concentration per Run 3	0.0109 ppm	0.0513 ppm	0.1743 ppm	0.7932 ppm	162.3687 ppm	6.7106 ppm	0.0675 ppm
Concentration RSD	1.2 %	0.6 %	0.4 %	0.4 %	0.1 %	0.6 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	125.3159 ppm	2.3941 ppm	0.0190 ppm	2.2142 ppm	0.1501 ppm	2.7705 ppm	0.0148 ppm
Concentration per Run 1	125.8210 ppm	2.3993 ppm	0.0185 ppm	2.2166 ppm	0.1514 ppm	2.7748 ppm	0.0173 ppm
Concentration per Run 2	124.9735 ppm	2.3891 ppm	0.0196 ppm	2.2162 ppm	0.1487 ppm	2.7721 ppm	0.0140 ppm
Concentration per Run 3	125.1532 ppm	2.3937 ppm	0.0187 ppm	2.2097 ppm	0.1502 ppm	2.7647 ppm	0.0133 ppm
Concentration RSD	0.4 %	0.2 %	3.1 %	0.2 %	0.9 %	0.2 %	14.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0063 ppm	6.7164 ppm	0.3183 ppm	0.6179 ppm	2.3709 ppm	0.0045 ppm	0.2297 ppm
Concentration per Run 1	0.0058 ppm	6.8178 ppm	0.3215 ppm	0.6181 ppm	2.3730 ppm	0.0025 ppm	0.2309 ppm
Concentration per Run 2	0.0062 ppm	6.6740 ppm	0.3161 ppm	0.6181 ppm	2.3684 ppm	0.0046 ppm	0.2296 ppm
Concentration per Run 3	0.0069 ppm	6.6573 ppm	0.3174 ppm	0.6175 ppm	2.3714 ppm	0.0065 ppm	0.2287 ppm
Concentration RSD	9.0 %	1.3 %	0.9 %	0.1 %	0.1 %	44.7 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.9381 ppm	105.2204 %	112.4275 %	94.9173 %	116.7667 %	126.9398 %	116.5599 %
Concentration per Run 1	3.9617 ppm	103.7833 %	112.6320 %	95.9996 %	115.3420 %	127.0715 %	117.7978 %
Concentration per Run 2	3.9294 ppm	105.9799 %	112.3704 %	94.4375 %	117.5198 %	127.1732 %	116.1425 %
Concentration per Run 3	3.9230 ppm	105.8979 %	112.2802 %	94.3149 %	117.4385 %	126.5745 %	115.7394 %
Concentration RSD	0.5 %	1.2 %	0.2 %	1.0 %	1.1 %	0.3 %	0.9 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453311-02d2 WG1974561
Analysis started at: 9/24/2024 7:06:29 PM
Rack 3
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	67.8993 ppm	0.0574 ppm	0.0253 ppm	0.7068 ppm	0.0038 ppm	103.8778 ppm
Concentration per Run 1	0.0021 ppm	68.0963 ppm	0.0569 ppm	0.0247 ppm	0.7066 ppm	0.0038 ppm	103.8529 ppm
Concentration per Run 2	0.0025 ppm	67.8102 ppm	0.0555 ppm	0.0255 ppm	0.7074 ppm	0.0038 ppm	104.1154 ppm
Concentration per Run 3	0.0019 ppm	67.7915 ppm	0.0596 ppm	0.0257 ppm	0.7065 ppm	0.0038 ppm	103.6649 ppm
Concentration RSD	15.4 %	0.3 %	3.7 %	2.1 %	0.1 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0683 ppm	0.1672 ppm	0.4601 ppm	189.5006 ppm	8.8459 ppm	0.0747 ppm
Concentration per Run 1	0.0031 ppm	0.0675 ppm	0.1676 ppm	0.4586 ppm	188.8376 ppm	8.8578 ppm	0.0760 ppm
Concentration per Run 2	0.0030 ppm	0.0686 ppm	0.1670 ppm	0.4609 ppm	191.1243 ppm	8.8326 ppm	0.0738 ppm
Concentration per Run 3	0.0027 ppm	0.0688 ppm	0.1671 ppm	0.4609 ppm	188.5400 ppm	8.8473 ppm	0.0745 ppm
Concentration RSD	6.7 %	1.1 %	0.2 %	0.3 %	0.7 %	0.1 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.9784 ppm	3.6033 ppm	0.0045 ppm	2.2515 ppm	0.1859 ppm	1.2658 ppm	0.0099 ppm
Concentration per Run 1	43.1588 ppm	3.5900 ppm	0.0049 ppm	2.2507 ppm	0.1862 ppm	1.2685 ppm	0.0105 ppm
Concentration per Run 2	42.8969 ppm	3.6184 ppm	0.0043 ppm	2.2671 ppm	0.1861 ppm	1.2695 ppm	0.0075 ppm
Concentration per Run 3	42.8795 ppm	3.6014 ppm	0.0044 ppm	2.2366 ppm	0.1853 ppm	1.2594 ppm	0.0116 ppm
Concentration RSD	0.4 %	0.4 %	6.1 %	0.7 %	0.3 %	0.4 %	21.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0034 ppm	5.3395 ppm	0.1577 ppm	0.2875 ppm	3.1881 ppm	0.0059 ppm	0.2455 ppm
Concentration per Run 1	0.0041 ppm	5.3651 ppm	0.1574 ppm	0.2878 ppm	3.2062 ppm	0.0055 ppm	0.2444 ppm
Concentration per Run 2	0.0028 ppm	5.3551 ppm	0.1596 ppm	0.2877 ppm	3.1750 ppm	0.0068 ppm	0.2469 ppm
Concentration per Run 3	0.0034 ppm	5.2981 ppm	0.1559 ppm	0.2869 ppm	3.1831 ppm	0.0056 ppm	0.2451 ppm
Concentration RSD	19.8 %	0.7 %	1.2 %	0.2 %	0.5 %	12.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1604 ppm	109.1731 %	113.6076 %	101.8133 %	122.9166 %	130.0187 %	123.5673 %
Concentration per Run 1	1.1673 ppm	109.0802 %	113.6557 %	101.3191 %	122.7712 %	130.2489 %	122.8955 %
Concentration per Run 2	1.1615 ppm	108.6154 %	112.6856 %	102.0189 %	122.1949 %	128.6950 %	124.0249 %
Concentration per Run 3	1.1526 ppm	109.8237 %	114.4816 %	102.1021 %	123.7835 %	131.1121 %	123.7817 %
Concentration RSD	0.6 %	0.6 %	0.8 %	0.4 %	0.7 %	0.9 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453311-03d2 WG1974561
Analysis started at: 9/24/2024 7:10:26 PM
Rack 3
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0042 ppm	68.1331 ppm	0.0510 ppm	0.0598 ppm	1.2829 ppm	0.0039 ppm	84.6572 ppm
Concentration per Run 1	0.0041 ppm	67.8220 ppm	0.0493 ppm	0.0599 ppm	1.2828 ppm	0.0040 ppm	84.2270 ppm
Concentration per Run 2	0.0040 ppm	68.2504 ppm	0.0505 ppm	0.0600 ppm	1.2863 ppm	0.0039 ppm	84.7583 ppm
Concentration per Run 3	0.0043 ppm	68.3269 ppm	0.0532 ppm	0.0595 ppm	1.2796 ppm	0.0040 ppm	84.9863 ppm
Concentration RSD	3.2 %	0.4 %	4.0 %	0.5 %	0.3 %	1.4 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0105 ppm	0.0717 ppm	0.2133 ppm	1.2944 ppm	273.8968 ppm	17.4050 ppm	0.0949 ppm
Concentration per Run 1	0.0105 ppm	0.0721 ppm	0.2130 ppm	1.2998 ppm	273.3646 ppm	17.4242 ppm	0.0948 ppm
Concentration per Run 2	0.0101 ppm	0.0717 ppm	0.2132 ppm	1.2879 ppm	273.7803 ppm	17.4331 ppm	0.0953 ppm
Concentration per Run 3	0.0108 ppm	0.0712 ppm	0.2136 ppm	1.2955 ppm	274.5454 ppm	17.3576 ppm	0.0946 ppm
Concentration RSD	3.3 %	0.7 %	0.1 %	0.5 %	0.2 %	0.2 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.8634 ppm	3.6975 ppm	0.0103 ppm	8.7889 ppm	0.2159 ppm	2.1627 ppm	0.0425 ppm
Concentration per Run 1	31.8683 ppm	3.6816 ppm	0.0099 ppm	8.7412 ppm	0.2153 ppm	2.1624 ppm	0.0456 ppm
Concentration per Run 2	31.8222 ppm	3.7105 ppm	0.0105 ppm	8.8011 ppm	0.2160 ppm	2.1585 ppm	0.0439 ppm
Concentration per Run 3	31.8996 ppm	3.7004 ppm	0.0106 ppm	8.8246 ppm	0.2165 ppm	2.1671 ppm	0.0380 ppm
Concentration RSD	0.1 %	0.4 %	3.2 %	0.5 %	0.3 %	0.2 %	9.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	4.5982 ppm	0.3649 ppm	0.3859 ppm	3.9573 ppm	0.0047 ppm	0.2377 ppm
Concentration per Run 1	-0.0012 ppm	4.5832 ppm	0.3673 ppm	0.3856 ppm	3.9502 ppm	0.0051 ppm	0.2385 ppm
Concentration per Run 2	0.0010 ppm	4.5780 ppm	0.3620 ppm	0.3869 ppm	3.9596 ppm	0.0030 ppm	0.2369 ppm
Concentration per Run 3	0.0008 ppm	4.6336 ppm	0.3652 ppm	0.3851 ppm	3.9620 ppm	0.0061 ppm	0.2377 ppm
Concentration RSD	685.6 %	0.7 %	0.7 %	0.2 %	0.2 %	32.7 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.7326 ppm	108.8752 %	113.9855 %	102.2299 %	124.7410 %	133.4424 %	126.8762 %
Concentration per Run 1	3.7294 ppm	108.8109 %	114.8565 %	101.8518 %	124.6799 %	134.1639 %	126.4535 %
Concentration per Run 2	3.7203 ppm	109.2149 %	113.1417 %	102.4604 %	124.8957 %	132.7177 %	127.0350 %
Concentration per Run 3	3.7479 ppm	108.5999 %	113.9581 %	102.3776 %	124.6473 %	133.4457 %	127.1403 %
Concentration RSD	0.4 %	0.3 %	0.8 %	0.3 %	0.1 %	0.5 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453311-04d2 WG1974561
Analysis started at: 9/24/2024 7:14:23 PM
Rack 3
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0017 ppm	66.0003 ppm	0.0431 ppm	0.0199 ppm	1.0580 ppm	0.0035 ppm	169.9186 ppm
Concentration per Run 1	0.0018 ppm	65.7694 ppm	0.0424 ppm	0.0215 ppm	1.0593 ppm	0.0034 ppm	169.5294 ppm
Concentration per Run 2	0.0016 ppm	66.1126 ppm	0.0445 ppm	0.0176 ppm	1.0561 ppm	0.0034 ppm	169.7816 ppm
Concentration per Run 3	0.0016 ppm	66.1189 ppm	0.0426 ppm	0.0206 ppm	1.0587 ppm	0.0035 ppm	170.4448 ppm
Concentration RSD	7.6 %	0.3 %	2.8 %	10.3 %	0.2 %	1.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0053 ppm	0.0506 ppm	0.1733 ppm	0.4408 ppm	150.3616 ppm	8.2970 ppm	0.0642 ppm
Concentration per Run 1	0.0053 ppm	0.0500 ppm	0.1737 ppm	0.4428 ppm	149.8002 ppm	8.3184 ppm	0.0641 ppm
Concentration per Run 2	0.0051 ppm	0.0510 ppm	0.1739 ppm	0.4392 ppm	150.5685 ppm	8.2565 ppm	0.0631 ppm
Concentration per Run 3	0.0054 ppm	0.0508 ppm	0.1723 ppm	0.4404 ppm	150.7161 ppm	8.3162 ppm	0.0655 ppm
Concentration RSD	2.5 %	1.1 %	0.5 %	0.4 %	0.3 %	0.4 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	42.3157 ppm	2.2057 ppm	0.0062 ppm	3.5627 ppm	0.1287 ppm	1.4164 ppm	-0.0006 ppm
Concentration per Run 1	42.5094 ppm	2.1934 ppm	0.0065 ppm	3.5551 ppm	0.1290 ppm	1.4135 ppm	-0.0017 ppm
Concentration per Run 2	42.1619 ppm	2.2196 ppm	0.0060 ppm	3.5646 ppm	0.1296 ppm	1.4207 ppm	0.0009 ppm
Concentration per Run 3	42.2760 ppm	2.2041 ppm	0.0061 ppm	3.5683 ppm	0.1276 ppm	1.4151 ppm	-0.0010 ppm
Concentration RSD	0.4 %	0.6 %	4.3 %	0.2 %	0.8 %	0.3 %	223.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	14.6407 ppm	0.1727 ppm	0.4546 ppm	3.1062 ppm	0.0035 ppm	0.2424 ppm
Concentration per Run 1	-0.0005 ppm	14.7487 ppm	0.1733 ppm	0.4537 ppm	3.1180 ppm	0.0046 ppm	0.2433 ppm
Concentration per Run 2	-0.0002 ppm	14.6331 ppm	0.1710 ppm	0.4541 ppm	3.1029 ppm	0.0035 ppm	0.2416 ppm
Concentration per Run 3	0.0034 ppm	14.5404 ppm	0.1738 ppm	0.4559 ppm	3.0977 ppm	0.0025 ppm	0.2422 ppm
Concentration RSD	244.5 %	0.7 %	0.9 %	0.3 %	0.3 %	30.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.7755 ppm	107.5244 %	112.6788 %	99.8302 %	121.0066 %	129.2658 %	121.8633 %
Concentration per Run 1	2.7896 ppm	107.5901 %	112.8203 %	99.9770 %	121.0684 %	129.6553 %	121.8900 %
Concentration per Run 2	2.7670 ppm	107.6449 %	112.8575 %	100.1783 %	121.2654 %	129.4600 %	121.9948 %
Concentration per Run 3	2.7699 ppm	107.3383 %	112.3585 %	99.3352 %	120.6860 %	128.6822 %	121.7051 %
Concentration RSD	0.4 %	0.2 %	0.2 %	0.4 %	0.2 %	0.4 %	0.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453188-02d10 WG1974561
Analysis started at: 9/24/2024 7:18:20 PM
Rack 3
Vial 16
Comment CA over sic RR

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	51.7643 ppm	0.0060 ppm	0.0763 ppm	0.4856 ppm	0.0077 ppm	436.7664 ppm
Concentration per Run 1	0.0008 ppm	51.7718 ppm	0.0078 ppm	0.0749 ppm	0.4866 ppm	0.0078 ppm	437.0941 ppm
Concentration per Run 2	-0.0001 ppm	51.7382 ppm	0.0052 ppm	0.0772 ppm	0.4841 ppm	0.0077 ppm	436.7845 ppm
Concentration per Run 3	-0.0003 ppm	51.7828 ppm	0.0051 ppm	0.0769 ppm	0.4862 ppm	0.0076 ppm	436.4208 ppm
Concentration RSD	418.1 %	0.0 %	25.4 %	1.6 %	0.3 %	0.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0006 ppm	0.0515 ppm	0.0063 ppm	6.9913 ppm	10.0130 ppm	0.0600 ppm
Concentration per Run 1	-0.0022 ppm	0.0005 ppm	0.0514 ppm	0.0063 ppm	6.9839 ppm	10.0208 ppm	0.0602 ppm
Concentration per Run 2	-0.0022 ppm	0.0008 ppm	0.0515 ppm	0.0062 ppm	7.0196 ppm	9.9833 ppm	0.0601 ppm
Concentration per Run 3	-0.0016 ppm	0.0005 ppm	0.0517 ppm	0.0064 ppm	6.9705 ppm	10.0348 ppm	0.0597 ppm
Concentration RSD	15.5 %	27.7 %	0.4 %	1.8 %	0.4 %	0.3 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	86.0481 ppm	3.4300 ppm	-0.0002 ppm	2.2395 ppm	0.0072 ppm	0.0042 ppm	-0.0017 ppm
Concentration per Run 1	86.2622 ppm	3.4320 ppm	-0.0001 ppm	2.2404 ppm	0.0078 ppm	0.0041 ppm	-0.0026 ppm
Concentration per Run 2	85.7756 ppm	3.4373 ppm	-0.0003 ppm	2.2391 ppm	0.0055 ppm	0.0036 ppm	-0.0066 ppm
Concentration per Run 3	86.1064 ppm	3.4205 ppm	-0.0003 ppm	2.2390 ppm	0.0084 ppm	0.0050 ppm	0.0040 ppm
Concentration RSD	0.3 %	0.3 %	40.9 %	0.0 %	21.3 %	17.5 %	305.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0022 ppm	3.2742 ppm	-0.0001 ppm	1.1576 ppm	1.6051 ppm	0.0024 ppm	0.0212 ppm
Concentration per Run 1	0.0016 ppm	3.2990 ppm	-0.0003 ppm	1.1564 ppm	1.6031 ppm	0.0012 ppm	0.0216 ppm
Concentration per Run 2	0.0027 ppm	3.2399 ppm	-0.0004 ppm	1.1591 ppm	1.6042 ppm	0.0028 ppm	0.0209 ppm
Concentration per Run 3	0.0023 ppm	3.2838 ppm	0.0003 ppm	1.1573 ppm	1.6081 ppm	0.0031 ppm	0.0212 ppm
Concentration RSD	27.0 %	0.9 %	299.4 %	0.1 %	0.2 %	42.0 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1595 ppm	101.0265 %	107.4143 %	93.7132 %	108.9099 %	117.4477 %	110.8427 %
Concentration per Run 1	0.1609 ppm	100.5441 %	107.2409 %	92.8654 %	108.4035 %	117.3729 %	109.9925 %
Concentration per Run 2	0.1590 ppm	101.4159 %	107.2343 %	94.2384 %	109.2264 %	117.1669 %	111.7551 %
Concentration per Run 3	0.1586 ppm	101.1196 %	107.7677 %	94.0357 %	109.0998 %	117.8034 %	110.7806 %
Concentration RSD	0.7 %	0.4 %	0.3 %	0.8 %	0.4 %	0.3 %	0.8 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453188-03d4 WG1974561
Analysis started at: 9/24/2024 7:22:17 PM
Rack 3
Vial 17
Comment Ca only

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	43.8292 ppm	0.0064 ppm	0.1790 ppm	0.2488 ppm	0.0012 ppm	435.3133 ppm
Concentration per Run 1	0.0003 ppm	43.8096 ppm	0.0073 ppm	0.1779 ppm	0.2483 ppm	0.0012 ppm	435.5976 ppm
Concentration per Run 2	0.0003 ppm	43.8617 ppm	0.0055 ppm	0.1827 ppm	0.2494 ppm	0.0012 ppm	435.5676 ppm
Concentration per Run 3	0.0005 ppm	43.8162 ppm	0.0065 ppm	0.1763 ppm	0.2486 ppm	0.0012 ppm	434.7747 ppm
Concentration RSD	22.3 %	0.1 %	14.2 %	1.9 %	0.2 %	1.5 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0020 ppm	0.0116 ppm	0.1792 ppm	0.0727 ppm	34.6725 ppm	0.3097 ppm	0.0161 ppm
Concentration per Run 1	-0.0024 ppm	0.0120 ppm	0.1797 ppm	0.0724 ppm	34.5484 ppm	0.3060 ppm	0.0168 ppm
Concentration per Run 2	-0.0019 ppm	0.0112 ppm	0.1790 ppm	0.0734 ppm	34.8153 ppm	0.2964 ppm	0.0154 ppm
Concentration per Run 3	-0.0018 ppm	0.0115 ppm	0.1788 ppm	0.0722 ppm	34.6537 ppm	0.3267 ppm	0.0162 ppm
Concentration RSD	14.4 %	3.1 %	0.2 %	0.9 %	0.4 %	5.0 %	4.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.6612 ppm	0.7133 ppm	0.0039 ppm	0.4828 ppm	0.0822 ppm	0.1727 ppm	0.0041 ppm
Concentration per Run 1	19.6800 ppm	0.7130 ppm	0.0040 ppm	0.4732 ppm	0.0815 ppm	0.1722 ppm	0.0021 ppm
Concentration per Run 2	19.6107 ppm	0.7133 ppm	0.0039 ppm	0.4856 ppm	0.0831 ppm	0.1728 ppm	0.0069 ppm
Concentration per Run 3	19.6929 ppm	0.7137 ppm	0.0037 ppm	0.4895 ppm	0.0821 ppm	0.1731 ppm	0.0032 ppm
Concentration RSD	0.2 %	0.0 %	4.0 %	1.8 %	1.0 %	0.3 %	62.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	5.2070 ppm	0.0026 ppm	1.5715 ppm	2.1865 ppm	0.0021 ppm	0.0605 ppm
Concentration per Run 1	-0.0010 ppm	5.2067 ppm	0.0029 ppm	1.5670 ppm	2.1797 ppm	0.0023 ppm	0.0605 ppm
Concentration per Run 2	0.0040 ppm	5.2200 ppm	0.0022 ppm	1.5794 ppm	2.1828 ppm	0.0018 ppm	0.0608 ppm
Concentration per Run 3	0.0000 ppm	5.1944 ppm	0.0026 ppm	1.5681 ppm	2.1969 ppm	0.0024 ppm	0.0602 ppm
Concentration RSD	264.0 %	0.2 %	15.2 %	0.4 %	0.4 %	14.5 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0648 ppm	102.2051 %	107.9413 %	94.8890 %	102.1864 %	109.6260 %	103.8296 %
Concentration per Run 1	0.0650 ppm	101.7413 %	107.8182 %	94.6503 %	101.8994 %	109.5389 %	103.6453 %
Concentration per Run 2	0.0646 ppm	102.0084 %	107.6410 %	95.7537 %	102.3034 %	109.4558 %	104.5788 %
Concentration per Run 3	0.0648 ppm	102.8657 %	108.3646 %	94.2630 %	102.3564 %	109.8834 %	103.2647 %
Concentration RSD	0.3 %	0.6 %	0.3 %	0.8 %	0.2 %	0.2 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 7:26:14 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4918 ppm	0.4432 ppm	0.4591 ppm	0.4731 ppm	0.4723 ppm	0.4809 ppm	0.4717 ppm
Concentration per Run 1	0.4943 ppm	0.4520 ppm	0.4607 ppm	0.4700 ppm	0.4724 ppm	0.4791 ppm	0.4697 ppm
Concentration per Run 2	0.4911 ppm	0.4405 ppm	0.4604 ppm	0.4725 ppm	0.4721 ppm	0.4820 ppm	0.4711 ppm
Concentration per Run 3	0.4899 ppm	0.4369 ppm	0.4562 ppm	0.4770 ppm	0.4725 ppm	0.4817 ppm	0.4743 ppm
Recovery Percentage 1	98.353 %	88.632 %	91.819 %	94.627 %	94.467 %	96.189 %	94.348 %
Concentration RSD	0.5 %	1.8 %	0.5 %	0.7 %	0.0 %	0.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4806 ppm	0.4894 ppm	0.4681 ppm	0.4748 ppm	0.4791 ppm	4.8823 ppm	0.4672 ppm
Concentration per Run 1	0.4844 ppm	0.4903 ppm	0.4700 ppm	0.4737 ppm	0.4801 ppm	4.8673 ppm	0.4672 ppm
Concentration per Run 2	0.4782 ppm	0.4880 ppm	0.4691 ppm	0.4739 ppm	0.4818 ppm	4.8609 ppm	0.4640 ppm
Concentration per Run 3	0.4791 ppm	0.4899 ppm	0.4651 ppm	0.4769 ppm	0.4755 ppm	4.9186 ppm	0.4702 ppm
Recovery Percentage 1	96.112 %	97.883 %	93.610 %	94.965 %	95.827 %	97.646 %	93.431 %
Concentration RSD	0.7 %	0.2 %	0.6 %	0.4 %	0.7 %	0.6 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4699 ppm	0.4587 ppm	0.4677 ppm	9.4196 ppm	0.4855 ppm	0.4765 ppm	0.4844 ppm
Concentration per Run 1	0.4705 ppm	0.4581 ppm	0.4661 ppm	9.4130 ppm	0.4858 ppm	0.4749 ppm	0.4862 ppm
Concentration per Run 2	0.4697 ppm	0.4585 ppm	0.4651 ppm	9.4314 ppm	0.4851 ppm	0.4772 ppm	0.4824 ppm
Concentration per Run 3	0.4695 ppm	0.4595 ppm	0.4718 ppm	9.4144 ppm	0.4857 ppm	0.4774 ppm	0.4845 ppm
Recovery Percentage 1	93.978 %	91.742 %	93.536 %	94.196 %	97.105 %	95.305 %	96.871 %
Concentration RSD	0.1 %	0.2 %	0.8 %	0.1 %	0.1 %	0.3 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4734 ppm	5.1270 ppm	0.4597 ppm	0.4499 ppm	0.4795 ppm	0.4774 ppm	0.4683 ppm
Concentration per Run 1	0.4717 ppm	5.1129 ppm	0.4606 ppm	0.4506 ppm	0.4818 ppm	0.4794 ppm	0.4686 ppm
Concentration per Run 2	0.4755 ppm	5.1170 ppm	0.4587 ppm	0.4478 ppm	0.4805 ppm	0.4772 ppm	0.4675 ppm
Concentration per Run 3	0.4731 ppm	5.1513 ppm	0.4596 ppm	0.4512 ppm	0.4760 ppm	0.4754 ppm	0.4688 ppm
Recovery Percentage 1	94.687 %	97.658 %	91.930 %	89.970 %	95.891 %	95.471 %	93.662 %
Concentration RSD	0.4 %	0.4 %	0.2 %	0.4 %	0.6 %	0.4 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4853 ppm	106.2192 %	106.5055 %	105.3800 %	104.4136 %	105.4053 %	105.0702 %
Concentration per Run 1	0.4866 ppm	106.2384 %	107.2115 %	105.7469 %	104.3554 %	106.4975 %	105.7738 %
Concentration per Run 2	0.4844 ppm	106.6082 %	107.2432 %	105.0838 %	104.9381 %	105.9008 %	104.7711 %
Concentration per Run 3	0.4848 ppm	105.8110 %	105.0619 %	105.3094 %	103.9473 %	103.8175 %	104.6656 %
Recovery Percentage 1	97.055 %						
Concentration RSD	0.2 %	0.4 %	1.2 %	0.3 %	0.5 %	1.3 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 7:30:10 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0092 ppm	0.0009 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 1	0.0003 ppm	-0.0088 ppm	0.0037 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	0.0005 ppm	-0.0122 ppm	0.0004 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 3	-0.0001 ppm	-0.0065 ppm	-0.0014 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	-0.0052 ppm
Recovery Percentage 1	3.063 %	-9.183 %	17.740 %	1.350 %	-1.190 %	0.080 %	-1.977 %
Concentration RSD	147.9 %	31.2 %	293.2 %	103.9 %	26.6 %	420.3 %	166.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0046 ppm	-0.0187 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0045 ppm	-0.0235 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	-0.0001 ppm	-0.0005 ppm	0.0047 ppm	-0.0113 ppm	0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0047 ppm	-0.0214 ppm	0.0004 ppm
Recovery Percentage 1	1.782 %	0.859 %	1.516 %	1.581 %	9.299 %	-0.749 %	2.264 %
Concentration RSD	31.9 %	143.0 %	162.5 %	355.6 %	2.5 %	35.0 %	581.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0002 ppm	0.0010 ppm	0.0077 ppm	-0.0001 ppm	-0.0007 ppm	0.0012 ppm
Concentration per Run 1	-0.0023 ppm	0.0004 ppm	0.0005 ppm	0.0085 ppm	-0.0005 ppm	-0.0014 ppm	0.0023 ppm
Concentration per Run 2	-0.0018 ppm	0.0001 ppm	0.0013 ppm	0.0031 ppm	0.0005 ppm	-0.0005 ppm	-0.0012 ppm
Concentration per Run 3	0.0022 ppm	0.0000 ppm	0.0013 ppm	0.0114 ppm	-0.0003 ppm	-0.0003 ppm	0.0024 ppm
Recovery Percentage 1	-0.609 %	1.865 %	2.025 %	0.383 %	-0.372 %	-7.207 %	2.322 %
Concentration RSD	402.9 %	96.8 %	47.1 %	55.2 %	561.7 %	80.9 %	176.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0036 ppm	-0.0019 ppm	0.0001 ppm	0.0006 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	-0.0027 ppm	0.0026 ppm	-0.0016 ppm	0.0000 ppm	0.0005 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	-0.0010 ppm	0.0040 ppm	-0.0023 ppm	0.0000 ppm	0.0006 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0042 ppm	-0.0019 ppm	0.0001 ppm	0.0006 ppm	-0.0004 ppm	-0.0002 ppm
Recovery Percentage 1	-11.294 %	0.719 %	-3.874 %	0.529 %	5.766 %	-1.963 %	-0.963 %
Concentration RSD	132.3 %	24.3 %	19.0 %	94.0 %	14.3 %	27.3 %	153.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0015 ppm	106.0011 %	105.8997 %	104.9812 %	105.3308 %	105.9851 %	105.4990 %
Concentration per Run 1	-0.0016 ppm	106.6819 %	104.9975 %	104.4564 %	106.1222 %	105.0714 %	105.0733 %
Concentration per Run 2	-0.0014 ppm	105.1814 %	106.1880 %	105.8818 %	104.6765 %	106.1996 %	106.2148 %
Concentration per Run 3	-0.0014 ppm	106.1401 %	106.5137 %	104.6054 %	105.1936 %	106.6844 %	105.2090 %
Recovery Percentage 1	-29.377 %						
Concentration RSD	7.6 %	0.7 %	0.8 %	0.7 %	0.7 %	0.8 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 7:38:49 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4827 ppm	0.4372 ppm	0.4565 ppm	0.4636 ppm	0.4644 ppm	0.4795 ppm	0.4727 ppm
Concentration per Run 1	0.4818 ppm	0.4363 ppm	0.4565 ppm	0.4610 ppm	0.4620 ppm	0.4791 ppm	0.4694 ppm
Concentration per Run 2	0.4820 ppm	0.4280 ppm	0.4560 ppm	0.4654 ppm	0.4684 ppm	0.4802 ppm	0.4755 ppm
Concentration per Run 3	0.4843 ppm	0.4472 ppm	0.4569 ppm	0.4642 ppm	0.4627 ppm	0.4790 ppm	0.4733 ppm
Recovery Percentage 1	96.536 %	87.433 %	91.294 %	92.712 %	92.872 %	95.890 %	94.545 %
Concentration RSD	0.3 %	2.2 %	0.1 %	0.5 %	0.8 %	0.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4741 ppm	0.4873 ppm	0.4692 ppm	0.4735 ppm	0.4801 ppm	4.8302 ppm	0.4581 ppm
Concentration per Run 1	0.4744 ppm	0.4855 ppm	0.4692 ppm	0.4741 ppm	0.4791 ppm	4.8337 ppm	0.4608 ppm
Concentration per Run 2	0.4747 ppm	0.4878 ppm	0.4695 ppm	0.4723 ppm	0.4809 ppm	4.8346 ppm	0.4591 ppm
Concentration per Run 3	0.4731 ppm	0.4886 ppm	0.4690 ppm	0.4741 ppm	0.4801 ppm	4.8223 ppm	0.4545 ppm
Recovery Percentage 1	94.817 %	97.459 %	93.844 %	94.693 %	96.014 %	96.604 %	91.620 %
Concentration RSD	0.2 %	0.3 %	0.1 %	0.2 %	0.2 %	0.1 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4676 ppm	0.4583 ppm	0.4705 ppm	9.3005 ppm	0.4842 ppm	0.4742 ppm	0.4774 ppm
Concentration per Run 1	0.4665 ppm	0.4570 ppm	0.4683 ppm	9.2331 ppm	0.4830 ppm	0.4759 ppm	0.4792 ppm
Concentration per Run 2	0.4673 ppm	0.4593 ppm	0.4700 ppm	9.3393 ppm	0.4849 ppm	0.4705 ppm	0.4809 ppm
Concentration per Run 3	0.4689 ppm	0.4585 ppm	0.4732 ppm	9.3292 ppm	0.4847 ppm	0.4763 ppm	0.4719 ppm
Recovery Percentage 1	93.515 %	91.650 %	94.104 %	93.005 %	96.844 %	94.842 %	95.470 %
Concentration RSD	0.3 %	0.2 %	0.5 %	0.6 %	0.2 %	0.7 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4649 ppm	5.0603 ppm	0.4616 ppm	0.4476 ppm	0.4782 ppm	0.4765 ppm	0.4685 ppm
Concentration per Run 1	0.4669 ppm	5.0459 ppm	0.4606 ppm	0.4459 ppm	0.4776 ppm	0.4756 ppm	0.4690 ppm
Concentration per Run 2	0.4616 ppm	5.0667 ppm	0.4624 ppm	0.4499 ppm	0.4780 ppm	0.4756 ppm	0.4683 ppm
Concentration per Run 3	0.4661 ppm	5.0683 ppm	0.4618 ppm	0.4471 ppm	0.4792 ppm	0.4783 ppm	0.4682 ppm
Recovery Percentage 1	92.973 %	96.387 %	92.323 %	89.524 %	95.648 %	95.299 %	93.697 %
Concentration RSD	0.6 %	0.2 %	0.2 %	0.5 %	0.2 %	0.3 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4812 ppm	106.5844 %	107.6975 %	106.2445 %	104.5535 %	106.8752 %	106.3683 %
Concentration per Run 1	0.4801 ppm	106.2549 %	107.8803 %	105.8318 %	104.3718 %	106.5986 %	105.7204 %
Concentration per Run 2	0.4827 ppm	106.9168 %	107.7576 %	106.8134 %	104.6422 %	107.0503 %	107.0728 %
Concentration per Run 3	0.4809 ppm	106.5816 %	107.4544 %	106.0883 %	104.6465 %	106.9768 %	106.3116 %
Recovery Percentage 1	96.243 %						
Concentration RSD	0.3 %	0.3 %	0.2 %	0.5 %	0.2 %	0.2 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 7:44:36 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0049 ppm	0.0006 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	-0.0002 ppm	-0.0154 ppm	0.0006 ppm	0.0025 ppm	-0.0002 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 2	0.0004 ppm	-0.0039 ppm	0.0009 ppm	0.0018 ppm	-0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	0.0005 ppm	0.0046 ppm	0.0004 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	3.271 %	-4.922 %	12.185 %	4.573 %	-2.299 %	0.186 %	0.330 %
Concentration RSD	180.4 %	204.4 %	40.1 %	102.9 %	72.3 %	317.2 %	352.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0005 ppm	0.0036 ppm	-0.0237 ppm	0.0003 ppm
Concentration per Run 1	-0.0002 ppm	-0.0001 ppm	-0.0003 ppm	-0.0006 ppm	0.0026 ppm	-0.0273 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0003 ppm	-0.0001 ppm	0.0040 ppm	-0.0156 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0002 ppm	-0.0008 ppm	0.0042 ppm	-0.0283 ppm	0.0010 ppm
Recovery Percentage 1	-0.613 %	-0.434 %	0.791 %	-4.946 %	7.239 %	-0.949 %	5.297 %
Concentration RSD	528.8 %	454.5 %	362.6 %	71.7 %	25.0 %	29.6 %	335.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0015 ppm	-0.0001 ppm	0.0002 ppm	0.0031 ppm	0.0003 ppm	0.0003 ppm	-0.0008 ppm
Concentration per Run 1	-0.0028 ppm	0.0002 ppm	0.0005 ppm	0.0085 ppm	0.0008 ppm	0.0004 ppm	-0.0012 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0025 ppm	0.0003 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 3	-0.0019 ppm	-0.0003 ppm	0.0004 ppm	-0.0017 ppm	-0.0002 ppm	0.0007 ppm	-0.0012 ppm
Recovery Percentage 1	-1.514 %	-0.571 %	0.466 %	0.155 %	1.242 %	3.019 %	-1.619 %
Concentration RSD	96.5 %	460.5 %	167.8 %	165.1 %	173.0 %	150.2 %	76.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0029 ppm	0.0008 ppm	-0.0018 ppm	0.0001 ppm	0.0006 ppm	0.0017 ppm	-0.0003 ppm
Concentration per Run 1	-0.0015 ppm	0.0016 ppm	-0.0025 ppm	0.0001 ppm	0.0005 ppm	0.0013 ppm	-0.0001 ppm
Concentration per Run 2	-0.0046 ppm	-0.0002 ppm	-0.0015 ppm	0.0001 ppm	0.0007 ppm	0.0023 ppm	-0.0004 ppm
Concentration per Run 3	-0.0028 ppm	0.0010 ppm	-0.0015 ppm	0.0001 ppm	0.0004 ppm	0.0015 ppm	-0.0004 ppm
Recovery Percentage 1	-29.354 %	0.155 %	-3.663 %	0.891 %	5.502 %	8.551 %	-2.958 %
Concentration RSD	52.5 %	117.1 %	33.8 %	29.8 %	24.1 %	30.2 %	72.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0015 ppm	104.6312 %	106.2542 %	104.2528 %	103.5337 %	106.2764 %	104.0631 %
Concentration per Run 1	-0.0014 ppm	105.1637 %	105.9748 %	103.9664 %	103.9726 %	106.3220 %	103.7253 %
Concentration per Run 2	-0.0015 ppm	103.5432 %	106.3123 %	103.9415 %	102.1720 %	105.9772 %	103.6803 %
Concentration per Run 3	-0.0018 ppm	105.1866 %	106.4756 %	104.8506 %	104.4563 %	106.5300 %	104.7837 %
Recovery Percentage 1	-30.991 %						
Concentration RSD	14.4 %	0.9 %	0.2 %	0.5 %	1.2 %	0.3 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453211-01 WG1974756
Analysis started at: 9/24/2024 7:48:47 PM
Rack 3
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0031 ppm	0.0014 ppm	0.0044 ppm	0.0866 ppm	0.0000 ppm	132.4818 ppm
Concentration per Run 1	-0.0001 ppm	0.0098 ppm	0.0015 ppm	0.0044 ppm	0.0871 ppm	0.0000 ppm	132.6755 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	-0.0008 ppm	0.0046 ppm	0.0864 ppm	0.0000 ppm	132.6656 ppm
Concentration per Run 3	0.0001 ppm	-0.0008 ppm	0.0035 ppm	0.0043 ppm	0.0862 ppm	0.0000 ppm	132.1042 ppm
Concentration RSD	508.8 %	191.0 %	152.0 %	4.2 %	0.5 %	17.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0030 ppm	-0.0002 ppm	0.0008 ppm	0.1183 ppm	0.2746 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0025 ppm	-0.0001 ppm	0.0006 ppm	0.1185 ppm	0.2769 ppm	0.0011 ppm
Concentration per Run 2	-0.0002 ppm	0.0031 ppm	-0.0005 ppm	0.0013 ppm	0.1160 ppm	0.2901 ppm	0.0006 ppm
Concentration per Run 3	-0.0002 ppm	0.0034 ppm	-0.0001 ppm	0.0006 ppm	0.1203 ppm	0.2567 ppm	0.0008 ppm
Concentration RSD	19.9 %	15.5 %	110.1 %	46.5 %	1.8 %	6.1 %	27.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.2398 ppm	0.9719 ppm	0.0000 ppm	0.5327 ppm	0.0017 ppm	0.0020 ppm	-0.0008 ppm
Concentration per Run 1	11.2538 ppm	0.9749 ppm	-0.0003 ppm	0.5326 ppm	0.0008 ppm	0.0009 ppm	0.0030 ppm
Concentration per Run 2	11.2245 ppm	0.9694 ppm	0.0003 ppm	0.5352 ppm	0.0022 ppm	0.0021 ppm	-0.0021 ppm
Concentration per Run 3	11.2412 ppm	0.9713 ppm	0.0001 ppm	0.5303 ppm	0.0021 ppm	0.0029 ppm	-0.0032 ppm
Concentration RSD	0.1 %	0.3 %	1,412.7 %	0.5 %	44.3 %	51.6 %	428.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0007 ppm	0.4104 ppm	-0.0006 ppm	0.2621 ppm	0.0009 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 1	0.0025 ppm	0.4103 ppm	-0.0009 ppm	0.2635 ppm	0.0009 ppm	0.0011 ppm	-0.0003 ppm
Concentration per Run 2	-0.0025 ppm	0.4117 ppm	-0.0006 ppm	0.2612 ppm	0.0010 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 3	0.0020 ppm	0.4091 ppm	-0.0004 ppm	0.2616 ppm	0.0009 ppm	-0.0016 ppm	-0.0002 ppm
Concentration RSD	414.5 %	0.3 %	39.8 %	0.5 %	6.8 %	885.7 %	28.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0044 ppm	105.9435 %	110.6568 %	99.0134 %	106.2024 %	112.0567 %	106.2287 %
Concentration per Run 1	0.0043 ppm	105.5097 %	110.5651 %	98.7904 %	105.5062 %	112.3663 %	105.7234 %
Concentration per Run 2	0.0045 ppm	106.1901 %	110.8542 %	99.0226 %	106.6385 %	111.8427 %	106.3558 %
Concentration per Run 3	0.0044 ppm	106.1306 %	110.5511 %	99.2272 %	106.4624 %	111.9612 %	106.6070 %
Concentration RSD	1.6 %	0.4 %	0.2 %	0.2 %	0.6 %	0.2 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453598-01 WG1974756
Analysis started at: 9/24/2024 7:52:44 PM
Rack 3
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0396 ppm	0.0008 ppm	0.0057 ppm	0.1239 ppm	0.0001 ppm	125.1087 ppm
Concentration per Run 1	0.0001 ppm	0.0486 ppm	0.0000 ppm	0.0046 ppm	0.1235 ppm	0.0001 ppm	124.9944 ppm
Concentration per Run 2	-0.0005 ppm	0.0371 ppm	0.0003 ppm	0.0069 ppm	0.1240 ppm	0.0001 ppm	125.1008 ppm
Concentration per Run 3	0.0004 ppm	0.0332 ppm	0.0020 ppm	0.0057 ppm	0.1242 ppm	0.0000 ppm	125.2309 ppm
Concentration RSD	1,759.3 %	20.2 %	131.9 %	19.6 %	0.3 %	56.7 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0022 ppm	-0.0003 ppm	0.0006 ppm	0.6062 ppm	0.2676 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0020 ppm	-0.0004 ppm	0.0007 ppm	0.6075 ppm	0.2560 ppm	0.0013 ppm
Concentration per Run 2	-0.0003 ppm	0.0019 ppm	-0.0002 ppm	0.0003 ppm	0.6048 ppm	0.3004 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	0.0026 ppm	-0.0004 ppm	0.0007 ppm	0.6064 ppm	0.2463 ppm	0.0006 ppm
Concentration RSD	141.4 %	17.6 %	26.4 %	36.3 %	0.2 %	10.8 %	63.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.8742 ppm	0.9035 ppm	-0.0006 ppm	0.4923 ppm	0.0027 ppm	0.0061 ppm	0.0025 ppm
Concentration per Run 1	8.8335 ppm	0.9032 ppm	-0.0015 ppm	0.4995 ppm	0.0024 ppm	0.0057 ppm	0.0006 ppm
Concentration per Run 2	8.8721 ppm	0.9027 ppm	0.0000 ppm	0.4867 ppm	0.0030 ppm	0.0069 ppm	0.0010 ppm
Concentration per Run 3	8.9170 ppm	0.9047 ppm	-0.0002 ppm	0.4908 ppm	0.0027 ppm	0.0055 ppm	0.0059 ppm
Concentration RSD	0.5 %	0.1 %	145.2 %	1.3 %	11.8 %	12.4 %	117.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	0.6145 ppm	-0.0014 ppm	0.2586 ppm	0.0007 ppm	-0.0017 ppm	-0.0002 ppm
Concentration per Run 1	0.0017 ppm	0.6118 ppm	-0.0021 ppm	0.2574 ppm	0.0008 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.6112 ppm	-0.0022 ppm	0.2594 ppm	0.0003 ppm	-0.0039 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.6204 ppm	0.0000 ppm	0.2591 ppm	0.0010 ppm	-0.0011 ppm	-0.0001 ppm
Concentration RSD	221.9 %	0.8 %	87.7 %	0.4 %	52.5 %	108.5 %	78.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0288 ppm	106.4329 %	110.4407 %	99.5892 %	106.4180 %	111.4926 %	106.2592 %
Concentration per Run 1	0.0289 ppm	104.3881 %	110.9176 %	98.5521 %	104.4883 %	112.1938 %	105.4718 %
Concentration per Run 2	0.0286 ppm	107.9951 %	110.2206 %	100.3417 %	107.9564 %	111.2524 %	106.8867 %
Concentration per Run 3	0.0288 ppm	106.9155 %	110.1839 %	99.8736 %	106.8092 %	111.0317 %	106.4191 %
Concentration RSD	0.5 %	1.7 %	0.4 %	0.9 %	1.7 %	0.6 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453598-02 WG1974756
Analysis started at: 9/24/2024 7:56:41 PM
Rack 3
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.3168 ppm	0.0074 ppm	0.0441 ppm	0.4624 ppm	0.0000 ppm	94.5396 ppm
Concentration per Run 1	0.0009 ppm	0.3143 ppm	0.0075 ppm	0.0435 ppm	0.4580 ppm	0.0000 ppm	93.9097 ppm
Concentration per Run 2	0.0004 ppm	0.3204 ppm	0.0067 ppm	0.0440 ppm	0.4630 ppm	0.0001 ppm	94.4835 ppm
Concentration per Run 3	0.0001 ppm	0.3157 ppm	0.0081 ppm	0.0448 ppm	0.4662 ppm	0.0000 ppm	95.2257 ppm
Concentration RSD	87.2 %	1.0 %	9.8 %	1.5 %	0.9 %	142.3 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0053 ppm	0.0026 ppm	0.0000 ppm	25.7468 ppm	1.4465 ppm	0.0046 ppm
Concentration per Run 1	-0.0005 ppm	0.0059 ppm	0.0026 ppm	0.0000 ppm	25.5501 ppm	1.4350 ppm	0.0065 ppm
Concentration per Run 2	-0.0004 ppm	0.0052 ppm	0.0026 ppm	0.0001 ppm	25.6983 ppm	1.4539 ppm	0.0039 ppm
Concentration per Run 3	-0.0005 ppm	0.0047 ppm	0.0026 ppm	0.0001 ppm	25.9921 ppm	1.4506 ppm	0.0033 ppm
Concentration RSD	14.4 %	11.2 %	1.2 %	137.5 %	0.9 %	0.7 %	36.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.2235 ppm	1.4701 ppm	0.0011 ppm	2.8562 ppm	0.0380 ppm	0.0953 ppm	-0.0002 ppm
Concentration per Run 1	3.2309 ppm	1.4609 ppm	0.0010 ppm	2.8381 ppm	0.0375 ppm	0.0945 ppm	0.0000 ppm
Concentration per Run 2	3.2145 ppm	1.4731 ppm	0.0012 ppm	2.8441 ppm	0.0386 ppm	0.0949 ppm	0.0029 ppm
Concentration per Run 3	3.2250 ppm	1.4761 ppm	0.0013 ppm	2.8864 ppm	0.0378 ppm	0.0963 ppm	-0.0033 ppm
Concentration RSD	0.3 %	0.5 %	11.4 %	0.9 %	1.6 %	1.0 %	1,765.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	3.0106 ppm	-0.0014 ppm	0.3678 ppm	0.0008 ppm	-0.0003 ppm	0.0009 ppm
Concentration per Run 1	0.0029 ppm	3.0316 ppm	-0.0015 ppm	0.3649 ppm	0.0010 ppm	-0.0014 ppm	0.0011 ppm
Concentration per Run 2	-0.0002 ppm	2.9996 ppm	-0.0012 ppm	0.3684 ppm	0.0008 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 3	-0.0010 ppm	3.0008 ppm	-0.0013 ppm	0.3701 ppm	0.0007 ppm	-0.0006 ppm	0.0009 ppm
Concentration RSD	372.9 %	0.6 %	13.2 %	0.7 %	15.8 %	422.9 %	16.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3973 ppm	108.5234 %	110.8081 %	101.2096 %	105.9491 %	109.7872 %	105.6076 %
Concentration per Run 1	0.3992 ppm	108.7489 %	112.9083 %	100.7964 %	105.8712 %	111.5579 %	105.3426 %
Concentration per Run 2	0.3978 ppm	108.2090 %	110.5771 %	101.1918 %	105.9843 %	109.1285 %	105.4370 %
Concentration per Run 3	0.3948 ppm	108.6122 %	108.9389 %	101.6406 %	105.9917 %	108.6753 %	106.0433 %
Concentration RSD	0.6 %	0.3 %	1.8 %	0.4 %	0.1 %	1.4 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453114-01 WG1973873
Analysis started at: 9/24/2024 8:00:38 PM
Rack 3
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	0.0544 ppm	-0.0004 ppm	0.0033 ppm	0.0103 ppm	0.0000 ppm	1.9783 ppm
Concentration per Run 1	0.0003 ppm	0.0538 ppm	-0.0006 ppm	0.0023 ppm	0.0102 ppm	0.0000 ppm	1.9780 ppm
Concentration per Run 2	0.0004 ppm	0.0529 ppm	-0.0021 ppm	0.0038 ppm	0.0104 ppm	0.0000 ppm	1.9704 ppm
Concentration per Run 3	-0.0002 ppm	0.0564 ppm	0.0015 ppm	0.0037 ppm	0.0103 ppm	0.0000 ppm	1.9864 ppm
Concentration RSD	173.8 %	3.4 %	482.1 %	25.4 %	0.9 %	2,746.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0019 ppm	0.0087 ppm	0.2787 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0008 ppm	0.0017 ppm	0.0106 ppm	0.2872 ppm	-0.0002 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	-0.0002 ppm	0.0021 ppm	0.0085 ppm	0.2900 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	-0.0003 ppm	0.0019 ppm	0.0069 ppm	0.2589 ppm	-0.0007 ppm
Concentration RSD	109.8 %	287.0 %	76.3 %	9.8 %	21.3 %	6.2 %	64.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0875 ppm	0.0237 ppm	0.0000 ppm	118.9461 ppm	0.0003 ppm	0.0361 ppm	-0.0007 ppm
Concentration per Run 1	0.0896 ppm	0.0236 ppm	0.0000 ppm	118.7500 ppm	0.0003 ppm	0.0355 ppm	0.0004 ppm
Concentration per Run 2	0.0862 ppm	0.0238 ppm	0.0001 ppm	118.9367 ppm	0.0004 ppm	0.0364 ppm	-0.0013 ppm
Concentration per Run 3	0.0867 ppm	0.0236 ppm	-0.0002 ppm	119.1515 ppm	0.0003 ppm	0.0364 ppm	-0.0011 ppm
Concentration RSD	2.1 %	0.4 %	319.3 %	0.2 %	20.0 %	1.6 %	133.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	0.1522 ppm	-0.0020 ppm	0.0060 ppm	0.0005 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	0.1529 ppm	-0.0015 ppm	0.0061 ppm	0.0006 ppm	0.0019 ppm	0.0000 ppm
Concentration per Run 2	-0.0026 ppm	0.1511 ppm	-0.0021 ppm	0.0058 ppm	0.0006 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 3	0.0021 ppm	0.1525 ppm	-0.0025 ppm	0.0060 ppm	0.0004 ppm	0.0007 ppm	0.0002 ppm
Concentration RSD	387.7 %	0.6 %	24.5 %	3.1 %	17.7 %	417.0 %	563.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0151 ppm	106.7053 %	109.3156 %	100.0150 %	104.0707 %	108.1238 %	104.2551 %
Concentration per Run 1	0.0149 ppm	107.2631 %	109.9201 %	99.9740 %	104.7539 %	109.3091 %	104.2101 %
Concentration per Run 2	0.0151 ppm	106.6350 %	110.0421 %	100.3364 %	103.8849 %	108.2062 %	104.3108 %
Concentration per Run 3	0.0154 ppm	106.2179 %	107.9847 %	99.7346 %	103.5734 %	106.8561 %	104.2445 %
Concentration RSD	1.7 %	0.5 %	1.1 %	0.3 %	0.6 %	1.1 %	0.0 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453114-02 WG1973873
Analysis started at: 9/24/2024 8:04:35 PM
Rack 3
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0457 ppm	-0.0002 ppm	0.0025 ppm	0.0112 ppm	0.0001 ppm	2.0318 ppm
Concentration per Run 1	0.0004 ppm	0.0442 ppm	0.0020 ppm	0.0039 ppm	0.0110 ppm	0.0001 ppm	2.0312 ppm
Concentration per Run 2	0.0002 ppm	0.0481 ppm	-0.0022 ppm	0.0019 ppm	0.0115 ppm	0.0001 ppm	2.0403 ppm
Concentration per Run 3	0.0012 ppm	0.0448 ppm	-0.0004 ppm	0.0018 ppm	0.0111 ppm	0.0000 ppm	2.0241 ppm
Concentration RSD	87.3 %	4.6 %	987.8 %	46.8 %	2.2 %	38.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.0020 ppm	0.0098 ppm	0.3038 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0012 ppm	-0.0004 ppm	0.0022 ppm	0.0123 ppm	0.3152 ppm	-0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	-0.0005 ppm	0.0021 ppm	0.0076 ppm	0.3181 ppm	0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0016 ppm	0.0095 ppm	0.2781 ppm	0.0011 ppm
Concentration RSD	117.8 %	105.7 %	31.8 %	15.5 %	23.8 %	7.3 %	103.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0872 ppm	0.0312 ppm	0.0000 ppm	122.1262 ppm	0.0010 ppm	0.0310 ppm	-0.0010 ppm
Concentration per Run 1	0.0845 ppm	0.0311 ppm	-0.0003 ppm	122.1258 ppm	0.0012 ppm	0.0308 ppm	-0.0029 ppm
Concentration per Run 2	0.0878 ppm	0.0314 ppm	0.0000 ppm	122.2515 ppm	0.0007 ppm	0.0310 ppm	-0.0001 ppm
Concentration per Run 3	0.0894 ppm	0.0312 ppm	0.0004 ppm	122.0013 ppm	0.0011 ppm	0.0310 ppm	0.0001 ppm
Concentration RSD	2.9 %	0.5 %	926.2 %	0.1 %	24.9 %	0.4 %	170.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	0.1726 ppm	-0.0020 ppm	0.0055 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.1693 ppm	-0.0027 ppm	0.0056 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	-0.0023 ppm	0.1762 ppm	-0.0018 ppm	0.0055 ppm	0.0005 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.1723 ppm	-0.0015 ppm	0.0054 ppm	0.0001 ppm	-0.0006 ppm	0.0003 ppm
Concentration RSD	107.8 %	2.0 %	30.6 %	1.8 %	66.5 %	160.3 %	145.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0129 ppm	106.9653 %	110.2059 %	100.7087 %	104.2803 %	108.8457 %	105.0400 %
Concentration per Run 1	0.0132 ppm	106.7898 %	109.9297 %	100.0912 %	103.9945 %	108.5110 %	104.4369 %
Concentration per Run 2	0.0126 ppm	107.1990 %	110.2466 %	101.1033 %	104.6525 %	108.8436 %	105.2687 %
Concentration per Run 3	0.0129 ppm	106.9071 %	110.4413 %	100.9317 %	104.1939 %	109.1825 %	105.4144 %
Concentration RSD	2.2 %	0.2 %	0.2 %	0.5 %	0.3 %	0.3 %	0.5 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453188-06d4 WG1974561
Analysis started at: 9/24/2024 8:08:33 PM
Rack 3
Vial 18
Comment CA only

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0080 ppm	61.6724 ppm	0.0130 ppm	0.1096 ppm	0.1963 ppm	0.0027 ppm	441.6771 ppm
Concentration per Run 1	0.0080 ppm	61.9327 ppm	0.0121 ppm	0.1088 ppm	0.1953 ppm	0.0027 ppm	442.1178 ppm
Concentration per Run 2	0.0080 ppm	61.9544 ppm	0.0159 ppm	0.1105 ppm	0.1968 ppm	0.0027 ppm	443.3553 ppm
Concentration per Run 3	0.0081 ppm	61.1301 ppm	0.0111 ppm	0.1097 ppm	0.1967 ppm	0.0027 ppm	439.5584 ppm
Concentration RSD	0.8 %	0.8 %	19.5 %	0.8 %	0.4 %	0.7 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0306 ppm	0.1679 ppm	0.4021 ppm	74.2018 ppm	2.2708 ppm	0.0315 ppm
Concentration per Run 1	0.0011 ppm	0.0306 ppm	0.1668 ppm	0.4020 ppm	73.8297 ppm	2.2788 ppm	0.0311 ppm
Concentration per Run 2	0.0012 ppm	0.0306 ppm	0.1693 ppm	0.4028 ppm	74.2765 ppm	2.2689 ppm	0.0315 ppm
Concentration per Run 3	0.0012 ppm	0.0304 ppm	0.1675 ppm	0.4013 ppm	74.4993 ppm	2.2647 ppm	0.0318 ppm
Concentration RSD	6.4 %	0.4 %	0.8 %	0.2 %	0.5 %	0.3 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.1608 ppm	0.9135 ppm	0.0052 ppm	5.4412 ppm	0.1395 ppm	0.1367 ppm	-0.0005 ppm
Concentration per Run 1	29.0302 ppm	0.9133 ppm	0.0048 ppm	5.4553 ppm	0.1406 ppm	0.1360 ppm	-0.0005 ppm
Concentration per Run 2	29.2147 ppm	0.9163 ppm	0.0057 ppm	5.4492 ppm	0.1395 ppm	0.1372 ppm	-0.0031 ppm
Concentration per Run 3	29.2374 ppm	0.9110 ppm	0.0052 ppm	5.4192 ppm	0.1385 ppm	0.1370 ppm	0.0022 ppm
Concentration RSD	0.4 %	0.3 %	8.5 %	0.4 %	0.7 %	0.5 %	585.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0023 ppm	2.9351 ppm	0.0719 ppm	0.8173 ppm	2.7342 ppm	0.0053 ppm	0.1595 ppm
Concentration per Run 1	-0.0024 ppm	2.9405 ppm	0.0712 ppm	0.8145 ppm	2.7235 ppm	0.0046 ppm	0.1588 ppm
Concentration per Run 2	-0.0011 ppm	2.9338 ppm	0.0732 ppm	0.8176 ppm	2.7470 ppm	0.0056 ppm	0.1600 ppm
Concentration per Run 3	-0.0033 ppm	2.9309 ppm	0.0712 ppm	0.8198 ppm	2.7320 ppm	0.0057 ppm	0.1598 ppm
Concentration RSD	48.0 %	0.2 %	1.6 %	0.3 %	0.4 %	11.7 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1071 ppm	102.9686 %	108.2318 %	94.8881 %	104.7298 %	112.7593 %	105.5315 %
Concentration per Run 1	1.1052 ppm	104.0368 %	108.7265 %	95.2286 %	105.8445 %	113.7157 %	105.8878 %
Concentration per Run 2	1.1126 ppm	102.4803 %	108.3282 %	95.0162 %	104.2181 %	112.9873 %	105.4356 %
Concentration per Run 3	1.1035 ppm	102.3888 %	107.6406 %	94.4196 %	104.1268 %	111.5749 %	105.2712 %
Concentration RSD	0.4 %	0.9 %	0.5 %	0.4 %	0.9 %	1.0 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 8:12:31 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4791 ppm	0.4549 ppm	0.4568 ppm	0.4624 ppm	0.4630 ppm	0.4766 ppm	0.4818 ppm
Concentration per Run 1	0.4780 ppm	0.4627 ppm	0.4580 ppm	0.4612 ppm	0.4613 ppm	0.4777 ppm	0.4805 ppm
Concentration per Run 2	0.4789 ppm	0.4493 ppm	0.4566 ppm	0.4647 ppm	0.4634 ppm	0.4762 ppm	0.4842 ppm
Concentration per Run 3	0.4803 ppm	0.4528 ppm	0.4557 ppm	0.4612 ppm	0.4644 ppm	0.4760 ppm	0.4806 ppm
Recovery Percentage 1	95.821 %	90.985 %	91.357 %	92.472 %	92.603 %	95.327 %	96.354 %
Concentration RSD	0.2 %	1.5 %	0.3 %	0.4 %	0.3 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4739 ppm	0.4878 ppm	0.4662 ppm	0.4740 ppm	0.4794 ppm	4.8056 ppm	0.4545 ppm
Concentration per Run 1	0.4786 ppm	0.4895 ppm	0.4649 ppm	0.4732 ppm	0.4796 ppm	4.8384 ppm	0.4553 ppm
Concentration per Run 2	0.4724 ppm	0.4869 ppm	0.4661 ppm	0.4744 ppm	0.4773 ppm	4.7754 ppm	0.4520 ppm
Concentration per Run 3	0.4707 ppm	0.4870 ppm	0.4677 ppm	0.4745 ppm	0.4812 ppm	4.8032 ppm	0.4563 ppm
Recovery Percentage 1	94.780 %	97.561 %	93.242 %	94.806 %	95.875 %	96.113 %	90.904 %
Concentration RSD	0.9 %	0.3 %	0.3 %	0.1 %	0.4 %	0.7 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4693 ppm	0.4562 ppm	0.4687 ppm	9.2598 ppm	0.4822 ppm	0.4781 ppm	0.4776 ppm
Concentration per Run 1	0.4710 ppm	0.4565 ppm	0.4672 ppm	9.2671 ppm	0.4814 ppm	0.4807 ppm	0.4762 ppm
Concentration per Run 2	0.4687 ppm	0.4571 ppm	0.4687 ppm	9.2518 ppm	0.4804 ppm	0.4764 ppm	0.4735 ppm
Concentration per Run 3	0.4681 ppm	0.4551 ppm	0.4703 ppm	9.2606 ppm	0.4849 ppm	0.4772 ppm	0.4830 ppm
Recovery Percentage 1	93.859 %	91.248 %	93.744 %	92.598 %	96.449 %	95.623 %	95.514 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.1 %	0.5 %	0.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4674 ppm	5.0584 ppm	0.4635 ppm	0.4493 ppm	0.4757 ppm	0.4770 ppm	0.4665 ppm
Concentration per Run 1	0.4671 ppm	5.0577 ppm	0.4669 ppm	0.4481 ppm	0.4757 ppm	0.4789 ppm	0.4651 ppm
Concentration per Run 2	0.4718 ppm	5.0477 ppm	0.4622 ppm	0.4485 ppm	0.4768 ppm	0.4792 ppm	0.4660 ppm
Concentration per Run 3	0.4632 ppm	5.0700 ppm	0.4613 ppm	0.4512 ppm	0.4745 ppm	0.4728 ppm	0.4685 ppm
Recovery Percentage 1	93.476 %	96.351 %	92.691 %	89.851 %	95.132 %	95.400 %	93.302 %
Concentration RSD	0.9 %	0.2 %	0.7 %	0.4 %	0.2 %	0.8 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4808 ppm	108.0397 %	109.3723 %	106.2598 %	106.3619 %	108.3753 %	106.4673 %
Concentration per Run 1	0.4816 ppm	107.0293 %	109.2707 %	106.3195 %	105.3102 %	108.2240 %	106.8007 %
Concentration per Run 2	0.4793 ppm	108.0661 %	109.4724 %	106.5611 %	106.5429 %	108.5738 %	106.5608 %
Concentration per Run 3	0.4814 ppm	109.0238 %	109.3737 %	105.8990 %	107.2328 %	108.3279 %	106.0405 %
Recovery Percentage 1	96.159 %						
Concentration RSD	0.3 %	0.9 %	0.1 %	0.3 %	0.9 %	0.2 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 8:16:26 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	-0.0047 ppm	-0.0004 ppm	0.0008 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.0008 ppm	0.0015 ppm	-0.0007 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0038 ppm
Concentration per Run 2	0.0006 ppm	-0.0099 ppm	-0.0003 ppm	0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 3	0.0000 ppm	-0.0056 ppm	-0.0001 ppm	0.0006 ppm	-0.0003 ppm	0.0000 ppm	0.0027 ppm
Recovery Percentage 1	6.928 %	-4.667 %	-7.238 %	2.743 %	-1.947 %	0.258 %	0.315 %
Concentration RSD	90.9 %	122.8 %	88.8 %	26.1 %	37.4 %	144.1 %	1,125.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0039 ppm	-0.0230 ppm	0.0017 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	0.0009 ppm	-0.0003 ppm	0.0033 ppm	-0.0236 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0008 ppm	0.0002 ppm	-0.0003 ppm	0.0055 ppm	-0.0452 ppm	0.0029 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm	0.0031 ppm	-0.0003 ppm	0.0017 ppm
Recovery Percentage 1	-1.290 %	-0.634 %	4.408 %	-3.048 %	7.891 %	-0.922 %	33.206 %
Concentration RSD	108.8 %	541.8 %	86.3 %	4.0 %	33.4 %	97.5 %	78.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0030 ppm	0.0001 ppm	0.0010 ppm	0.0044 ppm	0.0002 ppm	0.0000 ppm	0.0035 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	0.0006 ppm	0.0031 ppm	-0.0003 ppm	0.0001 ppm	0.0061 ppm
Concentration per Run 2	-0.0043 ppm	0.0001 ppm	0.0011 ppm	0.0057 ppm	0.0009 ppm	-0.0001 ppm	0.0019 ppm
Concentration per Run 3	-0.0046 ppm	0.0000 ppm	0.0014 ppm	0.0046 ppm	-0.0001 ppm	0.0000 ppm	0.0025 ppm
Recovery Percentage 1	-3.041 %	1.051 %	2.041 %	0.222 %	0.666 %	-0.251 %	6.967 %
Concentration RSD	78.2 %	143.2 %	39.8 %	29.5 %	360.5 %	352.6 %	64.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	0.0003 ppm	-0.0014 ppm	0.0002 ppm	0.0008 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	0.0011 ppm	-0.0007 ppm	0.0001 ppm	0.0010 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0024 ppm	-0.0018 ppm	-0.0024 ppm	0.0002 ppm	0.0006 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	-0.0015 ppm	0.0016 ppm	-0.0011 ppm	0.0002 ppm	0.0008 ppm	0.0004 ppm	0.0000 ppm
Recovery Percentage 1	-17.957 %	0.056 %	-2.810 %	1.518 %	7.788 %	1.005 %	0.071 %
Concentration RSD	30.0 %	642.4 %	65.6 %	12.7 %	24.3 %	139.7 %	2,726.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0015 ppm	106.4323 %	106.1026 %	106.0930 %	105.6693 %	105.5738 %	106.6613 %
Concentration per Run 1	-0.0016 ppm	105.2075 %	106.3530 %	106.2482 %	104.3622 %	105.7704 %	106.4067 %
Concentration per Run 2	-0.0016 ppm	106.6675 %	106.1897 %	106.1783 %	105.9863 %	105.6087 %	106.9230 %
Concentration per Run 3	-0.0014 ppm	107.4220 %	105.7652 %	105.8526 %	106.6593 %	105.3424 %	106.6542 %
Recovery Percentage 1	-30.789 %						
Concentration RSD	5.5 %	1.1 %	0.3 %	0.2 %	1.1 %	0.2 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975551-1 WG1975551
Analysis started at: 9/24/2024 8:23:47 PM
Rack 3
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0013 ppm	0.0009 ppm	0.0032 ppm	-0.0001 ppm	0.0000 ppm	0.0138 ppm
Concentration per Run 1	0.0000 ppm	0.0085 ppm	0.0006 ppm	0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0124 ppm
Concentration per Run 2	0.0007 ppm	-0.0087 ppm	0.0007 ppm	0.0023 ppm	-0.0002 ppm	0.0000 ppm	0.0178 ppm
Concentration per Run 3	0.0002 ppm	0.0040 ppm	0.0014 ppm	0.0051 ppm	0.0000 ppm	0.0000 ppm	0.0114 ppm
Concentration RSD	127.8 %	715.2 %	48.7 %	51.3 %	103.1 %	331.7 %	25.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	-0.0002 ppm	0.0036 ppm	0.0297 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	-0.0008 ppm	-0.0004 ppm	0.0038 ppm	0.0248 ppm	0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm	0.0041 ppm	0.0401 ppm	0.0007 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	-0.0005 ppm	-0.0002 ppm	0.0030 ppm	0.0243 ppm	-0.0010 ppm
Concentration RSD	4,567.3 %	864.7 %	56.2 %	104.7 %	14.9 %	30.2 %	802.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0033 ppm	0.0001 ppm	0.0001 ppm	127.0493 ppm	0.0000 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 1	0.0024 ppm	0.0000 ppm	0.0003 ppm	126.6308 ppm	0.0005 ppm	0.0005 ppm	0.0039 ppm
Concentration per Run 2	0.0044 ppm	0.0001 ppm	0.0002 ppm	126.9147 ppm	-0.0004 ppm	0.0008 ppm	-0.0029 ppm
Concentration per Run 3	0.0032 ppm	0.0001 ppm	-0.0004 ppm	127.6023 ppm	-0.0002 ppm	0.0008 ppm	-0.0025 ppm
Concentration RSD	31.3 %	93.4 %	578.2 %	0.4 %	1,625.3 %	27.3 %	764.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0018 ppm	0.0258 ppm	-0.0014 ppm	0.0001 ppm	0.0004 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0002 ppm	0.0285 ppm	-0.0015 ppm	0.0001 ppm	0.0005 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0027 ppm	0.0258 ppm	-0.0005 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 3	-0.0025 ppm	0.0231 ppm	-0.0022 ppm	0.0001 ppm	0.0002 ppm	-0.0012 ppm	-0.0001 ppm
Concentration RSD	78.8 %	10.5 %	62.2 %	33.9 %	38.4 %	125.0 %	152.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	103.6904 %	109.4761 %	97.9635 %	100.8468 %	108.3032 %	101.5924 %
Concentration per Run 1	-0.0004 ppm	103.3798 %	110.4819 %	98.0148 %	100.3775 %	109.6395 %	101.5843 %
Concentration per Run 2	-0.0003 ppm	103.6454 %	110.1971 %	98.1250 %	100.8505 %	108.5862 %	101.8925 %
Concentration per Run 3	-0.0004 ppm	104.0461 %	107.7493 %	97.7508 %	101.3124 %	106.6839 %	101.3005 %
Concentration RSD	8.0 %	0.3 %	1.4 %	0.2 %	0.5 %	1.4 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975551-2 WG1975551
Analysis started at: 9/24/2024 8:28:03 PM
Rack 3
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0476 ppm	1.7755 ppm	0.1064 ppm	0.8549 ppm	1.8242 ppm	0.0462 ppm	8.8572 ppm
Concentration per Run 1	0.0481 ppm	1.7751 ppm	0.1062 ppm	0.8580 ppm	1.8257 ppm	0.0463 ppm	8.8351 ppm
Concentration per Run 2	0.0472 ppm	1.7720 ppm	0.1081 ppm	0.8511 ppm	1.8220 ppm	0.0462 ppm	8.8540 ppm
Concentration per Run 3	0.0476 ppm	1.7793 ppm	0.1049 ppm	0.8555 ppm	1.8250 ppm	0.0461 ppm	8.8825 ppm
Concentration RSD	0.9 %	0.2 %	1.5 %	0.4 %	0.1 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0484 ppm	0.4673 ppm	0.1820 ppm	0.2341 ppm	0.9358 ppm	9.1188 ppm	0.0009 ppm
Concentration per Run 1	0.0487 ppm	0.4706 ppm	0.1824 ppm	0.2344 ppm	0.9375 ppm	9.1685 ppm	0.0018 ppm
Concentration per Run 2	0.0478 ppm	0.4662 ppm	0.1814 ppm	0.2334 ppm	0.9327 ppm	9.1148 ppm	0.0000 ppm
Concentration per Run 3	0.0485 ppm	0.4652 ppm	0.1823 ppm	0.2345 ppm	0.9371 ppm	9.0732 ppm	0.0010 ppm
Concentration RSD	1.0 %	0.6 %	0.3 %	0.3 %	0.3 %	0.5 %	97.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.9966 ppm	0.4559 ppm	0.9217 ppm	8.9782 ppm	0.4624 ppm	0.4922 ppm	0.4601 ppm
Concentration per Run 1	8.9694 ppm	0.4556 ppm	0.9193 ppm	8.9894 ppm	0.4612 ppm	0.4926 ppm	0.4576 ppm
Concentration per Run 2	8.9937 ppm	0.4562 ppm	0.9187 ppm	8.9178 ppm	0.4581 ppm	0.4922 ppm	0.4624 ppm
Concentration per Run 3	9.0266 ppm	0.4557 ppm	0.9272 ppm	9.0273 ppm	0.4677 ppm	0.4919 ppm	0.4603 ppm
Concentration RSD	0.3 %	0.1 %	0.5 %	0.6 %	1.1 %	0.1 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1030 ppm	0.6227 ppm	0.8724 ppm	0.8546 ppm	0.9184 ppm	0.1100 ppm	0.4680 ppm
Concentration per Run 1	0.1033 ppm	0.6232 ppm	0.8709 ppm	0.8546 ppm	0.9165 ppm	0.1097 ppm	0.4662 ppm
Concentration per Run 2	0.1032 ppm	0.6193 ppm	0.8704 ppm	0.8509 ppm	0.9160 ppm	0.1105 ppm	0.4682 ppm
Concentration per Run 3	0.1025 ppm	0.6255 ppm	0.8760 ppm	0.8582 ppm	0.9228 ppm	0.1097 ppm	0.4696 ppm
Concentration RSD	0.5 %	0.5 %	0.4 %	0.4 %	0.4 %	0.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4560 ppm	107.9736 %	109.6128 %	103.8326 %	105.5206 %	108.2478 %	105.1446 %
Concentration per Run 1	0.4559 ppm	106.6516 %	109.8086 %	104.3310 %	104.4528 %	108.4658 %	105.8779 %
Concentration per Run 2	0.4550 ppm	108.2538 %	109.1768 %	103.8978 %	106.1007 %	107.6877 %	105.2324 %
Concentration per Run 3	0.4570 ppm	109.0153 %	109.8531 %	103.2690 %	106.0081 %	108.5898 %	104.3234 %
Concentration RSD	0.2 %	1.1 %	0.3 %	0.5 %	0.9 %	0.5 %	0.7 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: L2453281-01 WG1975551
Analysis started at: 9/24/2024 8:32:00 PM
Rack 3
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0185 ppm	0.0015 ppm	0.0409 ppm	0.0119 ppm	0.0002 ppm	16.7277 ppm
Concentration per Run 1	0.0005 ppm	0.0165 ppm	0.0007 ppm	0.0411 ppm	0.0119 ppm	0.0001 ppm	16.6420 ppm
Concentration per Run 2	0.0000 ppm	0.0117 ppm	0.0033 ppm	0.0405 ppm	0.0120 ppm	0.0001 ppm	16.7792 ppm
Concentration per Run 3	0.0008 ppm	0.0274 ppm	0.0006 ppm	0.0412 ppm	0.0118 ppm	0.0002 ppm	16.7619 ppm
Concentration RSD	96.9 %	43.3 %	97.7 %	0.9 %	0.5 %	21.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0019 ppm	-0.0002 ppm	0.0038 ppm	0.0201 ppm	1.4866 ppm	0.0012 ppm
Concentration per Run 1	0.0005 ppm	0.0017 ppm	-0.0004 ppm	0.0036 ppm	0.0197 ppm	1.4982 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0018 ppm	-0.0004 ppm	0.0039 ppm	0.0191 ppm	1.4760 ppm	0.0010 ppm
Concentration per Run 3	0.0004 ppm	0.0023 ppm	0.0002 ppm	0.0038 ppm	0.0216 ppm	1.4856 ppm	0.0024 ppm
Concentration RSD	51.7 %	17.8 %	191.7 %	4.5 %	6.6 %	0.7 %	91.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1976 ppm	0.0589 ppm	0.0017 ppm	113.5404 ppm	0.0039 ppm	0.0008 ppm	0.0034 ppm
Concentration per Run 1	2.1907 ppm	0.0586 ppm	0.0019 ppm	113.0887 ppm	0.0042 ppm	0.0004 ppm	0.0021 ppm
Concentration per Run 2	2.1957 ppm	0.0589 ppm	0.0014 ppm	113.7276 ppm	0.0042 ppm	0.0014 ppm	0.0043 ppm
Concentration per Run 3	2.2063 ppm	0.0591 ppm	0.0017 ppm	113.8051 ppm	0.0033 ppm	0.0005 ppm	0.0037 ppm
Concentration RSD	0.4 %	0.5 %	16.6 %	0.3 %	13.2 %	71.5 %	34.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.2454 ppm	-0.0015 ppm	0.0695 ppm	0.0013 ppm	0.0011 ppm	0.0016 ppm
Concentration per Run 1	0.0017 ppm	0.2606 ppm	-0.0011 ppm	0.0691 ppm	0.0013 ppm	0.0012 ppm	0.0017 ppm
Concentration per Run 2	-0.0035 ppm	0.2405 ppm	-0.0014 ppm	0.0694 ppm	0.0010 ppm	0.0014 ppm	0.0019 ppm
Concentration per Run 3	0.0008 ppm	0.2351 ppm	-0.0019 ppm	0.0699 ppm	0.0016 ppm	0.0008 ppm	0.0013 ppm
Concentration RSD	858.8 %	5.5 %	27.5 %	0.5 %	21.6 %	28.6 %	18.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1016 ppm	106.1182 %	109.8549 %	99.7412 %	103.0078 %	108.3977 %	103.9141 %
Concentration per Run 1	0.1010 ppm	106.3321 %	109.3958 %	99.2778 %	103.1830 %	107.7676 %	103.7357 %
Concentration per Run 2	0.1022 ppm	105.6734 %	109.5828 %	100.3763 %	102.4531 %	108.0764 %	104.2498 %
Concentration per Run 3	0.1015 ppm	106.3492 %	110.5862 %	99.5695 %	103.3872 %	109.3493 %	103.7567 %
Concentration RSD	0.6 %	0.4 %	0.6 %	0.6 %	0.5 %	0.8 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975551-3 WG1975551
Analysis started at: 9/24/2024 8:35:58 PM
Rack 3
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0458 ppm	1.7487 ppm	0.1137 ppm	0.8895 ppm	1.7841 ppm	0.0453 ppm	25.4679 ppm
Concentration per Run 1	0.0460 ppm	1.7529 ppm	0.1130 ppm	0.8902 ppm	1.7798 ppm	0.0450 ppm	25.3565 ppm
Concentration per Run 2	0.0455 ppm	1.7443 ppm	0.1136 ppm	0.8859 ppm	1.7913 ppm	0.0454 ppm	25.4992 ppm
Concentration per Run 3	0.0461 ppm	1.7487 ppm	0.1145 ppm	0.8924 ppm	1.7812 ppm	0.0454 ppm	25.5479 ppm
Concentration RSD	0.6 %	0.2 %	0.7 %	0.4 %	0.4 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0475 ppm	0.4496 ppm	0.1775 ppm	0.2310 ppm	0.9071 ppm	10.5392 ppm	0.0001 ppm
Concentration per Run 1	0.0473 ppm	0.4473 ppm	0.1772 ppm	0.2303 ppm	0.9115 ppm	10.4840 ppm	0.0011 ppm
Concentration per Run 2	0.0478 ppm	0.4526 ppm	0.1769 ppm	0.2311 ppm	0.9031 ppm	10.6132 ppm	-0.0005 ppm
Concentration per Run 3	0.0474 ppm	0.4488 ppm	0.1783 ppm	0.2316 ppm	0.9066 ppm	10.5204 ppm	-0.0003 ppm
Concentration RSD	0.6 %	0.6 %	0.4 %	0.3 %	0.5 %	0.6 %	845.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.9800 ppm	0.4954 ppm	0.9201 ppm	123.2690 ppm	0.4457 ppm	0.4835 ppm	0.4502 ppm
Concentration per Run 1	10.9454 ppm	0.4923 ppm	0.9140 ppm	123.0896 ppm	0.4453 ppm	0.4805 ppm	0.4525 ppm
Concentration per Run 2	11.0474 ppm	0.4957 ppm	0.9216 ppm	123.1074 ppm	0.4440 ppm	0.4861 ppm	0.4514 ppm
Concentration per Run 3	10.9473 ppm	0.4982 ppm	0.9245 ppm	123.6099 ppm	0.4476 ppm	0.4838 ppm	0.4467 ppm
Concentration RSD	0.5 %	0.6 %	0.6 %	0.2 %	0.4 %	0.6 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1063 ppm	0.8673 ppm	0.8618 ppm	0.9121 ppm	0.9193 ppm	0.1071 ppm	0.4633 ppm
Concentration per Run 1	0.1063 ppm	0.8866 ppm	0.8594 ppm	0.9104 ppm	0.9169 ppm	0.1075 ppm	0.4624 ppm
Concentration per Run 2	0.1081 ppm	0.8612 ppm	0.8603 ppm	0.9138 ppm	0.9244 ppm	0.1082 ppm	0.4634 ppm
Concentration per Run 3	0.1046 ppm	0.8541 ppm	0.8658 ppm	0.9121 ppm	0.9164 ppm	0.1056 ppm	0.4641 ppm
Concentration RSD	1.7 %	2.0 %	0.4 %	0.2 %	0.5 %	1.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5515 ppm	105.4290 %	109.4853 %	99.5304 %	102.2651 %	107.9814 %	103.5497 %
Concentration per Run 1	0.5508 ppm	105.2216 %	110.2989 %	99.5645 %	101.7776 %	108.6181 %	103.7212 %
Concentration per Run 2	0.5504 ppm	105.6130 %	109.1202 %	99.6553 %	102.7399 %	107.7651 %	103.5706 %
Concentration per Run 3	0.5533 ppm	105.4522 %	109.0369 %	99.3716 %	102.2779 %	107.5611 %	103.3574 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.1 %	0.5 %	0.5 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975551-4 WG1975551
Analysis started at: 9/24/2024 8:39:55 PM
Rack 3
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	0.0196 ppm	0.0013 ppm	0.0395 ppm	0.0047 ppm	0.0000 ppm	16.4830 ppm
Concentration per Run 1	0.0007 ppm	0.0256 ppm	0.0022 ppm	0.0380 ppm	0.0047 ppm	0.0000 ppm	16.5736 ppm
Concentration per Run 2	0.0004 ppm	0.0201 ppm	-0.0001 ppm	0.0393 ppm	0.0047 ppm	0.0000 ppm	16.4576 ppm
Concentration per Run 3	0.0008 ppm	0.0132 ppm	0.0017 ppm	0.0412 ppm	0.0046 ppm	-0.0001 ppm	16.4179 ppm
Concentration RSD	33.5 %	31.7 %	97.8 %	4.1 %	1.8 %	1,880.3 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	-0.0004 ppm	0.0028 ppm	0.0091 ppm	1.4750 ppm	0.0015 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	-0.0006 ppm	0.0030 ppm	0.0106 ppm	1.4874 ppm	0.0013 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0025 ppm	0.0091 ppm	1.4888 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0006 ppm	0.0028 ppm	0.0077 ppm	1.4489 ppm	0.0023 ppm
Concentration RSD	1,689.5 %	82.2 %	80.0 %	8.5 %	15.9 %	1.5 %	53.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.1637 ppm	0.0566 ppm	0.0020 ppm	111.4921 ppm	0.0014 ppm	0.0006 ppm	-0.0013 ppm
Concentration per Run 1	2.1653 ppm	0.0565 ppm	0.0022 ppm	111.8939 ppm	0.0010 ppm	0.0007 ppm	-0.0016 ppm
Concentration per Run 2	2.1603 ppm	0.0567 ppm	0.0017 ppm	111.4176 ppm	0.0013 ppm	0.0006 ppm	0.0028 ppm
Concentration per Run 3	2.1656 ppm	0.0565 ppm	0.0020 ppm	111.1648 ppm	0.0018 ppm	0.0005 ppm	-0.0053 ppm
Concentration RSD	0.1 %	0.2 %	11.1 %	0.3 %	29.9 %	19.2 %	303.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0009 ppm	0.2239 ppm	-0.0022 ppm	0.0688 ppm	0.0011 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.0020 ppm	0.2205 ppm	-0.0021 ppm	0.0690 ppm	0.0012 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 2	0.0003 ppm	0.2259 ppm	-0.0019 ppm	0.0690 ppm	0.0006 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	-0.0012 ppm	0.2252 ppm	-0.0024 ppm	0.0683 ppm	0.0015 ppm	-0.0004 ppm	-0.0003 ppm
Concentration RSD	126.7 %	1.3 %	11.8 %	0.6 %	40.9 %	295.5 %	126.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0984 ppm	106.6808 %	108.9248 %	100.3130 %	103.6314 %	107.0940 %	104.1803 %
Concentration per Run 1	0.0985 ppm	106.5271 %	108.6938 %	100.3534 %	103.3591 %	107.0933 %	104.3698 %
Concentration per Run 2	0.0979 ppm	107.4646 %	108.2830 %	100.1251 %	104.0719 %	106.0459 %	103.9007 %
Concentration per Run 3	0.0987 ppm	106.0508 %	109.7975 %	100.4605 %	103.4633 %	108.1427 %	104.2705 %
Concentration RSD	0.4 %	0.7 %	0.7 %	0.2 %	0.4 %	1.0 %	0.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975551-5 WG1975551
Analysis started at: 9/24/2024 8:43:53 PM
Rack 3
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0449 ppm	1.8238 ppm	0.1176 ppm	0.9542 ppm	1.8365 ppm	0.0468 ppm	26.3952 ppm
Concentration per Run 1	0.0448 ppm	1.8373 ppm	0.1168 ppm	0.9478 ppm	1.8348 ppm	0.0467 ppm	26.4170 ppm
Concentration per Run 2	0.0449 ppm	1.8102 ppm	0.1162 ppm	0.9567 ppm	1.8371 ppm	0.0468 ppm	26.2830 ppm
Concentration per Run 3	0.0449 ppm	1.8240 ppm	0.1198 ppm	0.9581 ppm	1.8378 ppm	0.0469 ppm	26.4858 ppm
Concentration RSD	0.1 %	0.7 %	1.6 %	0.6 %	0.1 %	0.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0489 ppm	0.4623 ppm	0.1836 ppm	0.2384 ppm	0.9531 ppm	11.1899 ppm	0.0018 ppm
Concentration per Run 1	0.0490 ppm	0.4593 ppm	0.1834 ppm	0.2379 ppm	0.9558 ppm	11.1583 ppm	0.0026 ppm
Concentration per Run 2	0.0488 ppm	0.4633 ppm	0.1832 ppm	0.2392 ppm	0.9505 ppm	11.2115 ppm	0.0022 ppm
Concentration per Run 3	0.0490 ppm	0.4642 ppm	0.1843 ppm	0.2382 ppm	0.9530 ppm	11.1998 ppm	0.0007 ppm
Concentration RSD	0.3 %	0.6 %	0.3 %	0.3 %	0.3 %	0.2 %	55.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	11.5086 ppm	0.5131 ppm	0.9846 ppm	125.3405 ppm	0.4593 ppm	0.4973 ppm	0.4487 ppm
Concentration per Run 1	11.5022 ppm	0.5140 ppm	0.9779 ppm	125.3311 ppm	0.4589 ppm	0.4943 ppm	0.4470 ppm
Concentration per Run 2	11.5192 ppm	0.5114 ppm	0.9853 ppm	125.2962 ppm	0.4586 ppm	0.4996 ppm	0.4495 ppm
Concentration per Run 3	11.5044 ppm	0.5140 ppm	0.9906 ppm	125.3943 ppm	0.4605 ppm	0.4979 ppm	0.4497 ppm
Concentration RSD	0.1 %	0.3 %	0.7 %	0.0 %	0.2 %	0.5 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1132 ppm	1.2516 ppm	0.9396 ppm	0.9707 ppm	0.9835 ppm	0.1119 ppm	0.4767 ppm
Concentration per Run 1	0.1169 ppm	1.2464 ppm	0.9359 ppm	0.9729 ppm	0.9851 ppm	0.1118 ppm	0.4743 ppm
Concentration per Run 2	0.1127 ppm	1.2518 ppm	0.9394 ppm	0.9688 ppm	0.9869 ppm	0.1126 ppm	0.4776 ppm
Concentration per Run 3	0.1098 ppm	1.2567 ppm	0.9434 ppm	0.9704 ppm	0.9784 ppm	0.1112 ppm	0.4782 ppm
Concentration RSD	3.2 %	0.4 %	0.4 %	0.2 %	0.5 %	0.6 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5652 ppm	106.1466 %	110.0381 %	99.0064 %	103.0663 %	108.7830 %	102.9568 %
Concentration per Run 1	0.5652 ppm	106.2414 %	109.7591 %	99.4049 %	103.1758 %	108.7104 %	103.0881 %
Concentration per Run 2	0.5654 ppm	106.4422 %	111.1437 %	99.0091 %	103.2256 %	109.6608 %	102.9292 %
Concentration per Run 3	0.5650 ppm	105.7563 %	109.2114 %	98.6051 %	102.7976 %	107.9778 %	102.8531 %
Concentration RSD	0.0 %	0.3 %	0.9 %	0.4 %	0.2 %	0.8 %	0.1 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: WG1975551-6d5 WG1975551
Analysis started at: 9/24/2024 8:47:50 PM
Rack 3
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0028 ppm	-0.0005 ppm	0.0097 ppm	0.0025 ppm	0.0000 ppm	3.6136 ppm
Concentration per Run 1	0.0004 ppm	-0.0015 ppm	-0.0008 ppm	0.0075 ppm	0.0027 ppm	0.0000 ppm	3.6384 ppm
Concentration per Run 2	0.0007 ppm	-0.0015 ppm	-0.0014 ppm	0.0111 ppm	0.0023 ppm	0.0001 ppm	3.5930 ppm
Concentration per Run 3	0.0001 ppm	0.0114 ppm	0.0006 ppm	0.0104 ppm	0.0026 ppm	0.0000 ppm	3.6094 ppm
Concentration RSD	69.6 %	264.6 %	206.7 %	20.0 %	8.6 %	289.2 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0075 ppm	0.3124 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0008 ppm	0.0068 ppm	0.3351 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0003 ppm	0.0080 ppm	0.3028 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0006 ppm	0.0077 ppm	0.2994 ppm	0.0004 ppm
Concentration RSD	323.7 %	193.9 %	17.1 %	46.6 %	8.4 %	6.3 %	88.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4914 ppm	0.0131 ppm	0.0020 ppm	25.1776 ppm	0.0006 ppm	0.0003 ppm	0.0029 ppm
Concentration per Run 1	0.4932 ppm	0.0134 ppm	0.0027 ppm	25.4003 ppm	0.0012 ppm	0.0012 ppm	0.0025 ppm
Concentration per Run 2	0.4910 ppm	0.0130 ppm	0.0016 ppm	25.1178 ppm	0.0006 ppm	-0.0012 ppm	0.0017 ppm
Concentration per Run 3	0.4900 ppm	0.0129 ppm	0.0018 ppm	25.0146 ppm	0.0000 ppm	0.0010 ppm	0.0045 ppm
Concentration RSD	0.3 %	1.7 %	27.6 %	0.8 %	95.5 %	415.4 %	49.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	0.0547 ppm	-0.0021 ppm	0.0153 ppm	0.0010 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	-0.0017 ppm	0.0583 ppm	-0.0024 ppm	0.0152 ppm	0.0012 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 2	-0.0015 ppm	0.0541 ppm	-0.0015 ppm	0.0152 ppm	0.0007 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 3	0.0014 ppm	0.0515 ppm	-0.0023 ppm	0.0153 ppm	0.0009 ppm	0.0017 ppm	0.0001 ppm
Concentration RSD	285.2 %	6.2 %	22.6 %	0.3 %	27.8 %	555.5 %	56.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0215 ppm	107.3381 %	108.1429 %	104.6862 %	104.9723 %	106.7287 %	105.4284 %
Concentration per Run 1	0.0215 ppm	107.3169 %	106.9959 %	104.1228 %	104.9773 %	106.1226 %	105.0245 %
Concentration per Run 2	0.0215 ppm	107.7178 %	108.2831 %	104.8931 %	105.1996 %	107.0186 %	105.7252 %
Concentration per Run 3	0.0215 ppm	106.9797 %	109.1497 %	105.0425 %	104.7399 %	107.0448 %	105.5355 %
Concentration RSD	0.1 %	0.3 %	1.0 %	0.5 %	0.2 %	0.5 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 8:51:48 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4810 ppm	0.4370 ppm	0.4586 ppm	0.4585 ppm	0.4659 ppm	0.4789 ppm	0.4799 ppm
Concentration per Run 1	0.4795 ppm	0.4425 ppm	0.4561 ppm	0.4579 ppm	0.4644 ppm	0.4779 ppm	0.4741 ppm
Concentration per Run 2	0.4823 ppm	0.4278 ppm	0.4616 ppm	0.4603 ppm	0.4676 ppm	0.4801 ppm	0.4822 ppm
Concentration per Run 3	0.4812 ppm	0.4406 ppm	0.4581 ppm	0.4572 ppm	0.4655 ppm	0.4786 ppm	0.4835 ppm
Recovery Percentage 1	96.196 %	87.394 %	91.726 %	91.692 %	93.171 %	95.773 %	95.990 %
Concentration RSD	0.3 %	1.8 %	0.6 %	0.4 %	0.4 %	0.2 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4729 ppm	0.4852 ppm	0.4659 ppm	0.4718 ppm	0.4802 ppm	4.8251 ppm	0.4582 ppm
Concentration per Run 1	0.4674 ppm	0.4818 ppm	0.4642 ppm	0.4693 ppm	0.4809 ppm	4.8427 ppm	0.4586 ppm
Concentration per Run 2	0.4750 ppm	0.4877 ppm	0.4689 ppm	0.4745 ppm	0.4793 ppm	4.8329 ppm	0.4582 ppm
Concentration per Run 3	0.4762 ppm	0.4860 ppm	0.4645 ppm	0.4715 ppm	0.4803 ppm	4.7997 ppm	0.4577 ppm
Recovery Percentage 1	94.573 %	97.039 %	93.178 %	94.351 %	96.034 %	96.502 %	91.632 %
Concentration RSD	1.0 %	0.6 %	0.6 %	0.5 %	0.2 %	0.5 %	0.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4687 ppm	0.4584 ppm	0.4667 ppm	9.3060 ppm	0.4814 ppm	0.4803 ppm	0.4806 ppm
Concentration per Run 1	0.4650 ppm	0.4574 ppm	0.4616 ppm	9.3138 ppm	0.4781 ppm	0.4802 ppm	0.4739 ppm
Concentration per Run 2	0.4707 ppm	0.4597 ppm	0.4683 ppm	9.3213 ppm	0.4841 ppm	0.4793 ppm	0.4838 ppm
Concentration per Run 3	0.4702 ppm	0.4580 ppm	0.4703 ppm	9.2828 ppm	0.4821 ppm	0.4813 ppm	0.4842 ppm
Recovery Percentage 1	93.731 %	91.670 %	93.347 %	93.060 %	96.288 %	96.058 %	96.127 %
Concentration RSD	0.7 %	0.3 %	1.0 %	0.2 %	0.6 %	0.2 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4698 ppm	5.0565 ppm	0.4625 ppm	0.4508 ppm	0.4763 ppm	0.4789 ppm	0.4662 ppm
Concentration per Run 1	0.4662 ppm	5.0168 ppm	0.4640 ppm	0.4478 ppm	0.4748 ppm	0.4773 ppm	0.4645 ppm
Concentration per Run 2	0.4700 ppm	5.0746 ppm	0.4647 ppm	0.4541 ppm	0.4784 ppm	0.4784 ppm	0.4680 ppm
Concentration per Run 3	0.4733 ppm	5.0781 ppm	0.4588 ppm	0.4504 ppm	0.4755 ppm	0.4810 ppm	0.4661 ppm
Recovery Percentage 1	93.967 %	96.314 %	92.504 %	90.153 %	95.254 %	95.786 %	93.240 %
Concentration RSD	0.7 %	0.7 %	0.7 %	0.7 %	0.4 %	0.4 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4795 ppm	108.1771 %	107.7804 %	105.3386 %	105.6421 %	106.3378 %	105.4358 %
Concentration per Run 1	0.4783 ppm	108.6232 %	108.6728 %	105.4537 %	105.9549 %	107.2437 %	105.4043 %
Concentration per Run 2	0.4830 ppm	107.3235 %	107.2670 %	105.7195 %	104.8065 %	105.7089 %	106.0629 %
Concentration per Run 3	0.4772 ppm	108.5847 %	107.4015 %	104.8426 %	106.1648 %	106.0607 %	104.8403 %
Recovery Percentage 1	95.901 %						
Concentration RSD	0.6 %	0.7 %	0.7 %	0.4 %	0.7 %	0.8 %	0.6 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 8:55:43 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	0.0014 ppm	-0.0007 ppm	0.0025 ppm	-0.0001 ppm	0.0000 ppm	-0.0046 ppm
Concentration per Run 1	0.0005 ppm	0.0087 ppm	-0.0005 ppm	0.0035 ppm	0.0001 ppm	0.0000 ppm	-0.0056 ppm
Concentration per Run 2	-0.0001 ppm	0.0006 ppm	-0.0003 ppm	0.0024 ppm	-0.0001 ppm	0.0000 ppm	-0.0042 ppm
Concentration per Run 3	0.0010 ppm	-0.0050 ppm	-0.0013 ppm	0.0017 ppm	-0.0003 ppm	0.0000 ppm	-0.0040 ppm
Recovery Percentage 1	7.092 %	1.416 %	-13.582 %	8.424 %	-1.172 %	-0.152 %	-4.628 %
Concentration RSD	109.5 %	484.7 %	76.3 %	37.4 %	136.4 %	233.0 %	19.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	0.0033 ppm	-0.0081 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	-0.0003 ppm	-0.0006 ppm	0.0047 ppm	-0.0011 ppm	0.0022 ppm
Concentration per Run 2	0.0002 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0031 ppm	-0.0007 ppm	0.0013 ppm
Concentration per Run 3	0.0000 ppm	-0.0008 ppm	0.0001 ppm	-0.0003 ppm	0.0022 ppm	-0.0226 ppm	0.0007 ppm
Recovery Percentage 1	1.591 %	0.601 %	-0.432 %	-3.228 %	6.677 %	-0.326 %	28.199 %
Concentration RSD	133.8 %	650.4 %	440.5 %	66.4 %	38.7 %	153.9 %	54.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0015 ppm	0.0120 ppm	0.0004 ppm	-0.0013 ppm	0.0008 ppm
Concentration per Run 1	-0.0019 ppm	0.0000 ppm	0.0010 ppm	0.0148 ppm	0.0012 ppm	-0.0010 ppm	0.0015 ppm
Concentration per Run 2	-0.0006 ppm	0.0002 ppm	0.0015 ppm	0.0092 ppm	0.0000 ppm	-0.0009 ppm	-0.0006 ppm
Concentration per Run 3	0.0016 ppm	0.0001 ppm	0.0020 ppm	0.0120 ppm	0.0001 ppm	-0.0019 ppm	0.0016 ppm
Recovery Percentage 1	-0.276 %	1.223 %	2.972 %	0.601 %	1.674 %	-12.691 %	1.691 %
Concentration RSD	643.1 %	59.8 %	32.0 %	23.2 %	160.3 %	41.5 %	144.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0020 ppm	-0.0014 ppm	0.0001 ppm	0.0005 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 1	-0.0011 ppm	0.0075 ppm	-0.0018 ppm	0.0003 ppm	0.0003 ppm	-0.0007 ppm	-0.0004 ppm
Concentration per Run 2	0.0013 ppm	-0.0006 ppm	-0.0016 ppm	0.0001 ppm	0.0004 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run 3	-0.0033 ppm	-0.0009 ppm	-0.0009 ppm	0.0000 ppm	0.0009 ppm	0.0007 ppm	-0.0004 ppm
Recovery Percentage 1	-10.201 %	0.406 %	-2.884 %	1.230 %	5.313 %	-1.488 %	-3.513 %
Concentration RSD	228.0 %	233.8 %	31.6 %	94.1 %	62.1 %	306.0 %	26.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0017 ppm	107.0476 %	106.1472 %	106.4086 %	106.2203 %	105.9262 %	106.9911 %
Concentration per Run 1	-0.0015 ppm	107.8524 %	106.1588 %	107.0391 %	106.9379 %	106.4244 %	107.4891 %
Concentration per Run 2	-0.0019 ppm	106.5656 %	106.6945 %	107.1617 %	105.6853 %	105.8847 %	107.9841 %
Concentration per Run 3	-0.0017 ppm	106.7248 %	105.5883 %	105.0251 %	106.0376 %	105.4694 %	105.5002 %
Recovery Percentage 1	-34.432 %						
Concentration RSD	11.8 %	0.7 %	0.5 %	1.1 %	0.6 %	0.5 %	1.2 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCV
Analysis started at: 9/24/2024 8:59:39 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4825 ppm	0.4404 ppm	0.4557 ppm	0.4613 ppm	0.4680 ppm	0.4771 ppm	0.4746 ppm
Concentration per Run 1	0.4839 ppm	0.4473 ppm	0.4503 ppm	0.4623 ppm	0.4659 ppm	0.4751 ppm	0.4753 ppm
Concentration per Run 2	0.4791 ppm	0.4360 ppm	0.4591 ppm	0.4575 ppm	0.4670 ppm	0.4784 ppm	0.4759 ppm
Concentration per Run 3	0.4845 ppm	0.4380 ppm	0.4578 ppm	0.4642 ppm	0.4709 ppm	0.4778 ppm	0.4727 ppm
Recovery Percentage 1	96.497 %	88.085 %	91.142 %	92.266 %	93.591 %	95.419 %	94.921 %
Concentration RSD	0.6 %	1.4 %	1.0 %	0.8 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4779 ppm	0.4892 ppm	0.4666 ppm	0.4712 ppm	0.4778 ppm	4.8260 ppm	0.4582 ppm
Concentration per Run 1	0.4767 ppm	0.4885 ppm	0.4693 ppm	0.4754 ppm	0.4797 ppm	4.8325 ppm	0.4571 ppm
Concentration per Run 2	0.4831 ppm	0.4923 ppm	0.4633 ppm	0.4691 ppm	0.4741 ppm	4.8349 ppm	0.4597 ppm
Concentration per Run 3	0.4739 ppm	0.4867 ppm	0.4673 ppm	0.4691 ppm	0.4796 ppm	4.8107 ppm	0.4578 ppm
Recovery Percentage 1	95.576 %	97.833 %	93.329 %	94.242 %	95.560 %	96.521 %	91.644 %
Concentration RSD	1.0 %	0.6 %	0.7 %	0.8 %	0.7 %	0.3 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4709 ppm	0.4560 ppm	0.4708 ppm	9.2754 ppm	0.4841 ppm	0.4758 ppm	0.4810 ppm
Concentration per Run 1	0.4703 ppm	0.4559 ppm	0.4677 ppm	9.2784 ppm	0.4837 ppm	0.4748 ppm	0.4794 ppm
Concentration per Run 2	0.4702 ppm	0.4559 ppm	0.4701 ppm	9.3092 ppm	0.4826 ppm	0.4766 ppm	0.4813 ppm
Concentration per Run 3	0.4723 ppm	0.4562 ppm	0.4747 ppm	9.2387 ppm	0.4859 ppm	0.4761 ppm	0.4823 ppm
Recovery Percentage 1	94.188 %	91.202 %	94.169 %	92.754 %	96.814 %	95.165 %	96.196 %
Concentration RSD	0.2 %	0.0 %	0.8 %	0.4 %	0.4 %	0.2 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4620 ppm	5.0598 ppm	0.4622 ppm	0.4509 ppm	0.4771 ppm	0.4768 ppm	0.4669 ppm
Concentration per Run 1	0.4562 ppm	5.0389 ppm	0.4622 ppm	0.4513 ppm	0.4789 ppm	0.4768 ppm	0.4683 ppm
Concentration per Run 2	0.4642 ppm	5.0522 ppm	0.4621 ppm	0.4519 ppm	0.4740 ppm	0.4753 ppm	0.4666 ppm
Concentration per Run 3	0.4657 ppm	5.0884 ppm	0.4621 ppm	0.4497 ppm	0.4785 ppm	0.4783 ppm	0.4658 ppm
Recovery Percentage 1	92.405 %	96.377 %	92.430 %	90.190 %	95.424 %	95.359 %	93.386 %
Concentration RSD	1.1 %	0.5 %	0.0 %	0.3 %	0.6 %	0.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4813 ppm	107.5135 %	107.9019 %	106.1218 %	104.8012 %	106.6272 %	105.8319 %
Concentration per Run 1	0.4814 ppm	106.8056 %	107.4458 %	105.9697 %	104.3463 %	106.3881 %	105.4675 %
Concentration per Run 2	0.4813 ppm	107.9020 %	108.1066 %	106.3380 %	105.3503 %	106.9352 %	106.2378 %
Concentration per Run 3	0.4812 ppm	107.8328 %	108.1534 %	106.0577 %	104.7070 %	106.5585 %	105.7903 %
Recovery Percentage 1	96.262 %						
Concentration RSD	0.0 %	0.6 %	0.4 %	0.2 %	0.5 %	0.3 %	0.4 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: CCB
Analysis started at: 9/24/2024 9:03:35 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0055 ppm	-0.0004 ppm	0.0008 ppm	-0.0002 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 1	0.0003 ppm	-0.0059 ppm	0.0010 ppm	0.0030 ppm	-0.0002 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 2	-0.0001 ppm	-0.0111 ppm	0.0000 ppm	-0.0018 ppm	-0.0001 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 3	0.0004 ppm	0.0006 ppm	-0.0020 ppm	0.0012 ppm	-0.0002 ppm	0.0000 ppm	-0.0040 ppm
Recovery Percentage 1	2.629 %	-5.476 %	-7.380 %	2.655 %	-1.801 %	0.078 %	-1.905 %
Concentration RSD	115.3 %	107.2 %	414.9 %	300.6 %	28.6 %	575.7 %	93.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0041 ppm	-0.0065 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0008 ppm	-0.0007 ppm	0.0028 ppm	-0.0124 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0001 ppm	-0.0004 ppm	0.0045 ppm	-0.0233 ppm	0.0022 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm	0.0051 ppm	0.0162 ppm	0.0010 ppm
Recovery Percentage 1	0.097 %	0.316 %	2.790 %	-2.747 %	8.250 %	-0.260 %	13.324 %
Concentration RSD	2,140.9 %	319.6 %	168.6 %	183.0 %	29.9 %	314.0 %	259.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0011 ppm	0.0079 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0008 ppm	0.0066 ppm	0.0003 ppm	-0.0013 ppm	0.0022 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0010 ppm	0.0105 ppm	-0.0002 ppm	0.0013 ppm	-0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0015 ppm	0.0064 ppm	-0.0003 ppm	0.0012 ppm	-0.0006 ppm
Recovery Percentage 1	-0.182 %	0.693 %	2.222 %	0.393 %	-0.178 %	3.973 %	-0.192 %
Concentration RSD	118.5 %	231.7 %	32.0 %	29.2 %	678.3 %	380.0 %	2,206.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	0.0001 ppm	-0.0021 ppm	0.0000 ppm	0.0004 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	-0.0009 ppm	-0.0003 ppm	-0.0028 ppm	0.0001 ppm	0.0006 ppm	0.0008 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0006 ppm	-0.0018 ppm	-0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	-0.0016 ppm	0.0013 ppm	-0.0018 ppm	0.0001 ppm	0.0001 ppm	0.0014 ppm	-0.0001 ppm
Recovery Percentage 1	-7.958 %	0.029 %	-4.238 %	0.441 %	4.201 %	3.245 %	-0.473 %
Concentration RSD	109.7 %	701.6 %	26.1 %	218.7 %	67.6 %	125.9 %	331.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0015 ppm	106.7486 %	105.2640 %	105.8752 %	106.2370 %	104.9371 %	106.4645 %
Concentration per Run 1	-0.0015 ppm	106.4449 %	105.4353 %	105.9507 %	105.7800 %	105.0903 %	106.3570 %
Concentration per Run 2	-0.0012 ppm	106.6931 %	105.4086 %	105.3927 %	106.2188 %	104.8415 %	106.2144 %
Concentration per Run 3	-0.0016 ppm	107.1079 %	104.9483 %	106.2821 %	106.7122 %	104.8795 %	106.8221 %
Recovery Percentage 1	-29.235 %						
Concentration RSD	14.2 %	0.3 %	0.3 %	0.4 %	0.4 %	0.1 %	0.3 %

ICP DataTrace 9

9/25/2024 11:15:09 AM

LabBook: WG1975360_09242024T9.imexp

Sample: LLOQ
Analysis started at: 9/24/2024 9:07:31 PM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0051 ppm	0.0945 ppm	**0.0062 ppm**	0.0298 ppm	0.0094 ppm	0.0048 ppm	0.0987 ppm
Concentration per Run 1	0.0050 ppm	0.0877 ppm	0.0052 ppm	0.0297 ppm	0.0093 ppm	0.0048 ppm	0.0989 ppm
Concentration per Run 2	0.0052 ppm	0.0944 ppm	0.0073 ppm	0.0292 ppm	0.0094 ppm	0.0048 ppm	0.0967 ppm
Concentration per Run 3	0.0051 ppm	0.1014 ppm	0.0062 ppm	0.0305 ppm	0.0095 ppm	0.0048 ppm	0.1006 ppm
Recovery Percentage 1	102.103 %	94.500 %	124.332 %	99.398 %	93.517 %	96.006 %	98.730 %
Concentration RSD	2.0 %	7.2 %	**16.4 %**	2.2 %	1.1 %	0.6 %	2.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0039 ppm	0.0198 ppm	0.0091 ppm	0.0095 ppm	0.0497 ppm	2.5017 ppm	0.0106 ppm
Concentration per Run 1	0.0040 ppm	0.0201 ppm	0.0088 ppm	0.0094 ppm	0.0487 ppm	2.5183 ppm	0.0107 ppm
Concentration per Run 2	0.0039 ppm	0.0195 ppm	0.0089 ppm	0.0096 ppm	0.0504 ppm	2.4904 ppm	0.0109 ppm
Concentration per Run 3	0.0039 ppm	0.0197 ppm	0.0096 ppm	0.0095 ppm	0.0500 ppm	2.4965 ppm	0.0102 ppm
Recovery Percentage 1	98.170 %	98.752 %	91.021 %	95.089 %	99.421 %	100.070 %	106.019 %
Concentration RSD	1.7 %	1.5 %	4.6 %	0.9 %	1.8 %	0.6 %	3.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0972 ppm	0.0097 ppm	0.0490 ppm	1.9321 ppm	0.0194 ppm	0.0103 ppm	0.0484 ppm
Concentration per Run 1	0.0948 ppm	0.0098 ppm	0.0491 ppm	1.9417 ppm	0.0195 ppm	0.0099 ppm	0.0464 ppm
Concentration per Run 2	0.0978 ppm	0.0096 ppm	0.0491 ppm	1.9284 ppm	0.0190 ppm	0.0108 ppm	0.0514 ppm
Concentration per Run 3	0.0992 ppm	0.0097 ppm	0.0490 ppm	1.9261 ppm	0.0196 ppm	0.0102 ppm	0.0473 ppm
Recovery Percentage 1	97.242 %	97.001 %	98.082 %	96.604 %	96.777 %	103.136 %	96.728 %
Concentration RSD	2.3 %	1.3 %	0.2 %	0.4 %	1.6 %	4.6 %	5.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0087 ppm	0.4919 ppm	0.0466 ppm	0.0093 ppm	0.0493 ppm	0.0195 ppm	0.0092 ppm
Concentration per Run 1	0.0095 ppm	0.4933 ppm	0.0463 ppm	0.0093 ppm	0.0494 ppm	0.0191 ppm	0.0091 ppm
Concentration per Run 2	0.0056 ppm	0.4921 ppm	0.0471 ppm	0.0094 ppm	0.0494 ppm	0.0187 ppm	0.0092 ppm
Concentration per Run 3	0.0111 ppm	0.4902 ppm	0.0464 ppm	0.0094 ppm	0.0492 ppm	0.0207 ppm	0.0094 ppm
Recovery Percentage 1	87.499 %	98.380 %	93.152 %	93.346 %	98.684 %	97.589 %	92.271 %
Concentration RSD	32.5 %	0.3 %	1.0 %	0.6 %	0.2 %	5.4 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**0.0037 ppm**	109.1781 %	107.3200 %	107.1414 %	106.6573 %	106.2781 %	106.7134 %
Concentration per Run 1	0.0038 ppm	108.7741 %	107.1825 %	105.9948 %	105.9390 %	106.1083 %	105.8732 %
Concentration per Run 2	0.0037 ppm	110.1261 %	108.0638 %	107.5974 %	107.7244 %	106.6550 %	107.1621 %
Concentration per Run 3	0.0035 ppm	108.6342 %	106.7137 %	107.8320 %	106.3085 %	106.0710 %	107.1047 %
Recovery Percentage 1	73.088 %						
Concentration RSD	**4.3 %**	0.8 %	0.6 %	0.9 %	0.9 %	0.3 %	0.7 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: Blank CEY Trace5
Analysis started at: 9/25/2024 10:33:30 AM
Comments <Comment>
Rack: 0
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.4 %	-1.7 %	0.4 %	0.3 %	0.3 %	-0.3 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.8 %	0.0 %	0.2 %	0.0 %	-0.2 %	0.1 %	0.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.0 %	6.3 %	1.1 %	-0.1 %	-0.1 %	-0.2 %	-0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	-0.2 %	-0.1 %	-0.2 %	-0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.4 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: ICAL
Analysis started at: 9/25/2024 10:39:47 AM
Comments <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0079 ppm	24.2005 ppm	1.0003 ppm	0.9984 ppm	0.9693 ppm	0.9688 ppm	9.6756 ppm
Concentration per Run 2	0.9935 ppm	25.5998 ppm	1.0013 ppm	1.0008 ppm	1.0238 ppm	1.0230 ppm	10.2443 ppm
Concentration per Run 3	0.9985 ppm	25.1997 ppm	0.9984 ppm	1.0008 ppm	1.0070 ppm	1.0082 ppm	10.0801 ppm
Concentration RSD	0.7 %	2.9 %	0.1 %	0.1 %	2.8 %	2.8 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9993 ppm	0.9994 ppm	1.0087 ppm	1.0078 ppm	24.1613 ppm	33.9756 ppm	0.9691 ppm
Concentration per Run 2	1.0006 ppm	1.0002 ppm	0.9924 ppm	0.9932 ppm	25.6071 ppm	35.7782 ppm	1.0241 ppm
Concentration per Run 3	1.0001 ppm	1.0004 ppm	0.9989 ppm	0.9990 ppm	25.2316 ppm	35.2462 ppm	1.0068 ppm
Concentration RSD	0.1 %	0.1 %	0.8 %	0.7 %	3.0 %	2.6 %	2.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0887 ppm	0.9708 ppm	0.9875 ppm	24.4685 ppm	0.9993 ppm	0.9987 ppm	0.9991 ppm
Concentration per Run 2	9.9365 ppm	1.0228 ppm	1.0013 ppm	25.3161 ppm	1.0006 ppm	1.0018 ppm	1.0015 ppm
Concentration per Run 3	9.9749 ppm	1.0064 ppm	1.0111 ppm	25.2154 ppm	1.0001 ppm	0.9995 ppm	0.9994 ppm
Concentration RSD	0.8 %	2.7 %	1.2 %	1.9 %	0.1 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9972 ppm	9.9978 ppm	0.9982 ppm	0.9699 ppm	1.0088 ppm	1.0012 ppm	1.0095 ppm
Concentration per Run 2	1.0019 ppm	10.0086 ppm	1.0002 ppm	1.0228 ppm	0.9936 ppm	1.0005 ppm	0.9935 ppm
Concentration per Run 3	1.0008 ppm	9.9936 ppm	1.0017 ppm	1.0072 ppm	0.9976 ppm	0.9982 ppm	0.9970 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	2.7 %	0.8 %	0.2 %	0.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	1.0000 ppm	98.0019 %	96.7826 %	96.3996 %	107.3587 %	98.7160 %	101.3127 %
Concentration per Run 1	0.9996 ppm	100.9833 %	96.2364 %	96.1954 %	109.8164 %	98.8009 %	100.7220 %
Concentration per Run 2	1.0005 ppm	95.6999 %	97.4723 %	96.5291 %	105.8397 %	98.6669 %	101.9810 %
Concentration per Run 3	0.9999 ppm	97.3224 %	96.6392 %	96.4742 %	106.4198 %	98.6802 %	101.2351 %
Concentration RSD	0.0 %	2.8 %	0.7 %	0.2 %	2.0 %	0.1 %	0.6 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: ICV
Analysis started at: 9/25/2024 10:45:49 AM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5156 ppm	0.4805 ppm	0.4942 ppm	0.5001 ppm	0.4761 ppm	0.4824 ppm	0.4854 ppm
Concentration per Run 1	0.5136 ppm	0.4805 ppm	0.4942 ppm	0.5002 ppm	0.4708 ppm	0.4764 ppm	0.4807 ppm
Concentration per Run 2	0.5153 ppm	0.4805 ppm	0.4937 ppm	0.5011 ppm	0.4775 ppm	0.4848 ppm	0.4907 ppm
Concentration per Run 3	0.5179 ppm	0.4804 ppm	0.4947 ppm	0.4991 ppm	0.4799 ppm	0.4860 ppm	0.4849 ppm
Recovery Percentage 1	103.120 %	96.096 %	98.837 %	100.028 %	95.213 %	96.477 %	97.084 %
Concentration RSD	0.4 %	0.0 %	0.1 %	0.2 %	1.0 %	1.1 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4990 ppm	0.5078 ppm	0.5042 ppm	0.4965 ppm	0.4986 ppm	5.0936 ppm	0.4789 ppm
Concentration per Run 1	0.4989 ppm	0.5079 ppm	0.5019 ppm	0.4947 ppm	0.4900 ppm	4.9793 ppm	0.4763 ppm
Concentration per Run 2	0.5004 ppm	0.5091 ppm	0.5040 ppm	0.4974 ppm	0.5045 ppm	5.1370 ppm	0.4785 ppm
Concentration per Run 3	0.4977 ppm	0.5064 ppm	0.5066 ppm	0.4975 ppm	0.5012 ppm	5.1646 ppm	0.4820 ppm
Recovery Percentage 1	99.803 %	101.566 %	100.832 %	99.303 %	99.715 %	101.872 %	95.787 %
Concentration RSD	0.3 %	0.3 %	0.5 %	0.3 %	1.5 %	2.0 %	0.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5094 ppm	0.4770 ppm	0.4951 ppm	10.2722 ppm	0.5080 ppm	0.5071 ppm	0.5029 ppm
Concentration per Run 1	0.5086 ppm	0.4715 ppm	0.4904 ppm	10.2302 ppm	0.5087 ppm	0.5080 ppm	0.5027 ppm
Concentration per Run 2	0.5091 ppm	0.4790 ppm	0.4968 ppm	10.3309 ppm	0.5089 ppm	0.5075 ppm	0.5044 ppm
Concentration per Run 3	0.5105 ppm	0.4805 ppm	0.4982 ppm	10.2555 ppm	0.5065 ppm	0.5057 ppm	0.5017 ppm
Recovery Percentage 1	101.878 %	95.393 %	99.029 %	102.722 %	101.608 %	101.421 %	100.587 %
Concentration RSD	0.2 %	1.0 %	0.8 %	0.5 %	0.3 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5040 ppm	5.5230 ppm	0.4724 ppm	0.4522 ppm	0.5057 ppm	0.5100 ppm	0.4942 ppm
Concentration per Run 1	0.5092 ppm	5.5261 ppm	0.4717 ppm	0.4463 ppm	0.5046 ppm	0.5107 ppm	0.4929 ppm
Concentration per Run 2	0.5016 ppm	5.5398 ppm	0.4744 ppm	0.4546 ppm	0.5063 ppm	0.5100 ppm	0.4947 ppm
Concentration per Run 3	0.5011 ppm	5.5031 ppm	0.4710 ppm	0.4557 ppm	0.5063 ppm	0.5093 ppm	0.4951 ppm
Recovery Percentage 1	100.796 %	105.200 %	94.475 %	90.433 %	101.148 %	102.001 %	98.844 %
Concentration RSD	0.9 %	0.3 %	0.4 %	1.1 %	0.2 %	0.1 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5067 ppm	102.9781 %	98.7598 %	98.6707 %	106.3300 %	101.4368 %	101.5158 %
Concentration per Run 1	0.5071 ppm	104.1102 %	99.3731 %	98.8641 %	106.5284 %	101.4018 %	102.2001 %
Concentration per Run 2	0.5077 ppm	102.4734 %	98.9021 %	98.4350 %	105.7736 %	101.1458 %	101.6155 %
Concentration per Run 3	0.5053 ppm	102.3506 %	98.0042 %	98.7130 %	106.6880 %	101.7629 %	100.7317 %
Recovery Percentage 1	101.341 %						
Concentration RSD	0.2 %	1.0 %	0.7 %	0.2 %	0.5 %	0.3 %	0.7 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: ICB
Analysis started at: 9/25/2024 10:51:52 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0028 ppm	0.0009 ppm	0.0013 ppm	0.0002 ppm	0.0003 ppm	0.0056 ppm
Concentration per Run 1	-0.0005 ppm	-0.0062 ppm	0.0028 ppm	0.0022 ppm	0.0001 ppm	0.0003 ppm	0.0050 ppm
Concentration per Run 2	0.0004 ppm	-0.0025 ppm	0.0010 ppm	0.0009 ppm	0.0002 ppm	0.0003 ppm	0.0065 ppm
Concentration per Run 3	-0.0004 ppm	0.0001 ppm	-0.0011 ppm	0.0009 ppm	0.0001 ppm	0.0002 ppm	0.0052 ppm
Recovery Percentage 1	-2.839 %	-2.849 %	18.086 %	4.377 %	1.521 %	5.348 %	5.595 %
Concentration RSD	255.9 %	111.1 %	216.8 %	55.7 %	36.6 %	20.3 %	14.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0028 ppm	0.0145 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0004 ppm	0.0025 ppm	0.0024 ppm	0.0014 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0020 ppm	0.0250 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0040 ppm	0.0163 ppm	0.0000 ppm
Recovery Percentage 1	2.978 %	0.369 %	1.152 %	1.749 %	5.668 %	0.582 %	4.495 %
Concentration RSD	3.1 %	79.7 %	231.9 %	159.1 %	35.7 %	78.3 %	175.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0032 ppm	0.0203 ppm	0.0002 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 1	-0.0011 ppm	0.0003 ppm	0.0036 ppm	0.0330 ppm	0.0005 ppm	-0.0006 ppm	0.0017 ppm
Concentration per Run 2	0.0009 ppm	-0.0001 ppm	0.0030 ppm	0.0138 ppm	0.0001 ppm	-0.0007 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0029 ppm	0.0141 ppm	0.0001 ppm	-0.0005 ppm	-0.0006 ppm
Recovery Percentage 1	-0.042 %	1.521 %	6.350 %	1.015 %	0.889 %	-6.022 %	0.966 %
Concentration RSD	2,367.3 %	124.4 %	12.8 %	54.3 %	102.2 %	11.9 %	235.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0018 ppm	0.0006 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.0028 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	-0.0008 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	-0.0004 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 3	0.0024 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0011 ppm	0.0000 ppm
Recovery Percentage 1	17.572 %	0.110 %	-0.324 %	2.446 %	2.410 %	-2.209 %	1.734 %
Concentration RSD	86.1 %	118.5 %	147.8 %	35.6 %	135.3 %	201.6 %	86.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	99.7235 %	98.3481 %	98.5454 %	100.9891 %	99.2156 %	98.8569 %
Concentration per Run 1	-0.0001 ppm	101.8581 %	98.4697 %	99.3772 %	102.0047 %	100.0549 %	98.8906 %
Concentration per Run 2	-0.0001 ppm	98.1443 %	97.8568 %	97.7372 %	99.9881 %	98.2415 %	98.2860 %
Concentration per Run 3	-0.0001 ppm	99.1680 %	98.7176 %	98.5219 %	100.9745 %	99.3504 %	99.3940 %
Recovery Percentage 1	-2.161 %						
Concentration RSD	11.0 %	1.9 %	0.5 %	0.8 %	1.0 %	0.9 %	0.6 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: ICV
Analysis started at: 9/25/2024 10:58:15 AM
Comments position changed
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5111 ppm	0.4856 ppm	0.4941 ppm	0.4928 ppm	0.4815 ppm	0.4920 ppm	0.4935 ppm
Concentration per Run 1	0.5097 ppm	0.4974 ppm	0.4941 ppm	0.4941 ppm	0.4870 ppm	0.4977 ppm	0.5016 ppm
Concentration per Run 2	0.5113 ppm	0.4741 ppm	0.4912 ppm	0.4915 ppm	0.4782 ppm	0.4888 ppm	0.4915 ppm
Concentration per Run 3	0.5124 ppm	0.4854 ppm	0.4971 ppm	0.4927 ppm	0.4793 ppm	0.4896 ppm	0.4875 ppm
Recovery Percentage 1	102.222 %	97.123 %	98.828 %	98.553 %	96.298 %	98.399 %	98.706 %
Concentration RSD	0.3 %	2.4 %	0.6 %	0.3 %	1.0 %	1.0 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4998 ppm	0.5104 ppm	0.5028 ppm	0.5009 ppm	0.5005 ppm	5.1043 ppm	0.4842 ppm
Concentration per Run 1	0.5010 ppm	0.5115 ppm	0.5020 ppm	0.5011 ppm	0.5053 ppm	5.1815 ppm	0.4895 ppm
Concentration per Run 2	0.4988 ppm	0.5093 ppm	0.5025 ppm	0.5004 ppm	0.4949 ppm	5.0282 ppm	0.4801 ppm
Concentration per Run 3	0.4995 ppm	0.5104 ppm	0.5038 ppm	0.5013 ppm	0.5014 ppm	5.1033 ppm	0.4830 ppm
Recovery Percentage 1	99.960 %	102.079 %	100.550 %	100.186 %	100.102 %	102.087 %	96.839 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.1 %	1.1 %	1.5 %	1.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5097 ppm	0.4872 ppm	0.4998 ppm	10.4119 ppm	0.5097 ppm	0.5093 ppm	0.5032 ppm
Concentration per Run 1	0.5079 ppm	0.4926 ppm	0.4971 ppm	10.4896 ppm	0.5104 ppm	0.5101 ppm	0.5038 ppm
Concentration per Run 2	0.5119 ppm	0.4847 ppm	0.4993 ppm	10.3975 ppm	0.5085 ppm	0.5083 ppm	0.5028 ppm
Concentration per Run 3	0.5094 ppm	0.4841 ppm	0.5030 ppm	10.3487 ppm	0.5103 ppm	0.5095 ppm	0.5031 ppm
Recovery Percentage 1	101.940 %	97.432 %	99.959 %	104.119 %	101.939 %	101.859 %	100.646 %
Concentration RSD	0.4 %	1.0 %	0.6 %	0.7 %	0.2 %	0.2 %	0.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4959 ppm	5.5321 ppm	0.4834 ppm	0.4719 ppm	0.5087 ppm	0.5104 ppm	0.4982 ppm
Concentration per Run 1	0.4961 ppm	5.5452 ppm	0.4846 ppm	0.4769 ppm	0.5080 ppm	0.5105 ppm	0.4978 ppm
Concentration per Run 2	0.4931 ppm	5.5218 ppm	0.4825 ppm	0.4698 ppm	0.5080 ppm	0.5091 ppm	0.4971 ppm
Concentration per Run 3	0.4986 ppm	5.5293 ppm	0.4833 ppm	0.4689 ppm	0.5099 ppm	0.5117 ppm	0.4997 ppm
Recovery Percentage 1	99.189 %	105.374 %	96.690 %	94.373 %	101.732 %	102.087 %	99.640 %
Concentration RSD	0.6 %	0.2 %	0.2 %	0.9 %	0.2 %	0.2 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5053 ppm	103.2427 %	100.2661 %	99.7517 %	107.7412 %	102.7642 %	103.9029 %
Concentration per Run 1	0.5061 ppm	101.4262 %	100.8226 %	99.6294 %	106.3087 %	102.7488 %	104.4530 %
Concentration per Run 2	0.5045 ppm	104.4683 %	100.0597 %	99.9276 %	108.5016 %	102.9874 %	103.7201 %
Concentration per Run 3	0.5053 ppm	103.8336 %	99.9161 %	99.6981 %	108.4133 %	102.5565 %	103.5356 %
Recovery Percentage 1	101.056 %						
Concentration RSD	0.2 %	1.6 %	0.5 %	0.2 %	1.2 %	0.2 %	0.5 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: ICB
Analysis started at: 9/25/2024 11:04:22 AM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0113 ppm	-0.0002 ppm	0.0013 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 1	-0.0002 ppm	0.0221 ppm	-0.0001 ppm	0.0012 ppm	0.0004 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 2	-0.0007 ppm	0.0003 ppm	0.0004 ppm	0.0017 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.0114 ppm	-0.0010 ppm	0.0009 ppm	0.0002 ppm	0.0002 ppm	0.0012 ppm
Recovery Percentage 1	-5.243 %	11.284 %	-4.863 %	4.286 %	2.106 %	4.480 %	0.384 %
Concentration RSD	84.5 %	96.4 %	294.7 %	33.3 %	93.6 %	47.0 %	183.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm	0.0030 ppm	-0.0187 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0015 ppm	-0.0135 ppm	0.0032 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0002 ppm	0.0014 ppm	-0.0210 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0060 ppm	-0.0215 ppm	-0.0007 ppm
Recovery Percentage 1	0.674 %	0.964 %	2.424 %	0.583 %	5.947 %	-0.747 %	11.206 %
Concentration RSD	101.9 %	55.3 %	112.4 %	744.3 %	89.2 %	23.9 %	177.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0011 ppm	0.0001 ppm	0.0026 ppm	0.0095 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0020 ppm	-0.0002 ppm	0.0030 ppm	0.0028 ppm	0.0000 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	-0.0016 ppm	0.0001 ppm	0.0023 ppm	0.0159 ppm	0.0000 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0003 ppm	0.0024 ppm	0.0099 ppm	0.0005 ppm	0.0000 ppm	-0.0017 ppm
Recovery Percentage 1	-1.111 %	0.571 %	5.127 %	0.477 %	0.641 %	-1.144 %	-0.226 %
Concentration RSD	112.6 %	446.0 %	13.3 %	68.9 %	162.0 %	211.0 %	1,335.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0019 ppm	0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0020 ppm	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0000 ppm	-0.0010 ppm	0.0004 ppm
Concentration per Run 2	0.0002 ppm	0.0012 ppm	-0.0003 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0040 ppm	-0.0006 ppm	-0.0003 ppm	0.0003 ppm	0.0003 ppm	0.0017 ppm	-0.0001 ppm
Recovery Percentage 1	-19.335 %	0.032 %	-0.523 %	3.130 %	1.190 %	1.356 %	1.035 %
Concentration RSD	109.3 %	584.9 %	18.9 %	39.9 %	108.5 %	508.1 %	260.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	102.1786 %	98.3335 %	98.5884 %	103.0803 %	99.4760 %	98.8479 %
Concentration per Run 1	0.0000 ppm	103.5289 %	98.6758 %	97.8283 %	102.8735 %	98.5336 %	99.0937 %
Concentration per Run 2	0.0000 ppm	102.9272 %	98.1081 %	99.3259 %	105.3738 %	100.2224 %	98.6640 %
Concentration per Run 3	-0.0002 ppm	100.0797 %	98.2167 %	98.6111 %	100.9937 %	99.6720 %	98.7859 %
Recovery Percentage 1	-1.758 %						
Concentration RSD	91.2 %	1.8 %	0.3 %	0.8 %	2.1 %	0.9 %	0.2 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: LLOQ RL
Analysis started at: 9/25/2024 11:10:40 AM
Comments <Comment>
Rack: 0
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0052 ppm	0.1039 ppm	0.0051 ppm	0.0321 ppm	0.0100 ppm	0.0050 ppm	0.1091 ppm
Concentration per Run 1	0.0053 ppm	0.1096 ppm	0.0048 ppm	0.0319 ppm	0.0104 ppm	0.0052 ppm	0.1090 ppm
Concentration per Run 2	0.0052 ppm	0.1055 ppm	0.0054 ppm	0.0324 ppm	0.0099 ppm	0.0049 ppm	0.1084 ppm
Concentration per Run 3	0.0050 ppm	0.0965 ppm	0.0050 ppm	0.0321 ppm	0.0096 ppm	0.0049 ppm	0.1099 ppm
Recovery Percentage 1	103.576 %	103.857 %	101.360 %	107.047 %	99.710 %	100.227 %	109.107 %
Concentration RSD	2.7 %	6.5 %	5.6 %	0.7 %	4.1 %	3.2 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0041 ppm	0.0206 ppm	0.0107 ppm	0.0103 ppm	0.0621 ppm	2.6586 ppm	0.0115 ppm
Concentration per Run 1	0.0042 ppm	0.0207 ppm	0.0103 ppm	0.0104 ppm	0.0627 ppm	2.7351 ppm	0.0137 ppm
Concentration per Run 2	0.0041 ppm	0.0206 ppm	0.0108 ppm	0.0103 ppm	0.0620 ppm	2.6190 ppm	0.0094 ppm
Concentration per Run 3	0.0041 ppm	0.0206 ppm	0.0111 ppm	0.0102 ppm	0.0617 ppm	2.6217 ppm	0.0114 ppm
Recovery Percentage 1	103.675 %	103.198 %	107.350 %	103.079 %	124.266 %	106.344 %	114.715 %
Concentration RSD	0.7 %	0.3 %	3.9 %	1.1 %	0.9 %	2.5 %	18.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1095 ppm	0.0105 ppm	0.0524 ppm	2.2558 ppm	0.0209 ppm	0.0101 ppm	0.0512 ppm
Concentration per Run 1	0.1109 ppm	0.0105 ppm	0.0524 ppm	2.3345 ppm	0.0209 ppm	0.0104 ppm	0.0513 ppm
Concentration per Run 2	0.1080 ppm	0.0102 ppm	0.0523 ppm	2.2371 ppm	0.0207 ppm	0.0099 ppm	0.0518 ppm
Concentration per Run 3	0.1096 ppm	0.0108 ppm	0.0527 ppm	2.1956 ppm	0.0212 ppm	0.0099 ppm	0.0505 ppm
Recovery Percentage 1	109.503 %	105.025 %	104.882 %	112.788 %	104.693 %	100.575 %	102.462 %
Concentration RSD	1.3 %	3.0 %	0.4 %	3.2 %	1.2 %	2.9 %	1.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0101 ppm	0.5428 ppm	0.0495 ppm	0.0097 ppm	0.0530 ppm	0.0206 ppm	0.0107 ppm
Concentration per Run 1	0.0106 ppm	0.5447 ppm	0.0493 ppm	0.0099 ppm	0.0531 ppm	0.0207 ppm	0.0100 ppm
Concentration per Run 2	0.0092 ppm	0.5428 ppm	0.0492 ppm	0.0096 ppm	0.0528 ppm	0.0208 ppm	0.0112 ppm
Concentration per Run 3	0.0105 ppm	0.5410 ppm	0.0501 ppm	0.0095 ppm	0.0532 ppm	0.0203 ppm	0.0109 ppm
Recovery Percentage 1	100.868 %	108.567 %	99.038 %	96.847 %	106.040 %	102.996 %	107.050 %
Concentration RSD	8.0 %	0.3 %	1.0 %	2.4 %	0.4 %	1.4 %	5.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0054 ppm	100.8474 %	99.8739 %	100.2209 %	100.6985 %	102.5434 %	101.4124 %
Concentration per Run 1	0.0053 ppm	97.4627 %	99.9509 %	100.2666 %	97.0474 %	102.5885 %	101.3552 %
Concentration per Run 2	0.0054 ppm	101.9663 %	100.0347 %	100.4795 %	101.0799 %	102.7384 %	101.6265 %
Concentration per Run 3	0.0054 ppm	103.1134 %	99.6360 %	99.9165 %	103.9681 %	102.3032 %	101.2556 %
Recovery Percentage 1	107.523 %						
Concentration RSD	0.6 %	3.0 %	0.2 %	0.3 %	3.5 %	0.2 %	0.2 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: ICSA
Analysis started at: 9/25/2024 11:19:13 AM
Comments <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0025 ppm	490.4212 ppm	-0.0084 ppm	-0.0054 ppm	0.0016 ppm	-0.0001 ppm	544.1208 [SIC 1000]
Concentration per Run 1	0.0024 ppm	497.4920 ppm	-0.0056 ppm	-0.0057 ppm	0.0017 ppm	-0.0001 ppm	559.2528 ppm
Concentration per Run 2	0.0027 ppm	489.1626 ppm	-0.0093 ppm	-0.0059 ppm	0.0015 ppm	-0.0001 ppm	534.8175 ppm
Concentration per Run 3	0.0024 ppm	484.6088 ppm	-0.0104 ppm	-0.0045 ppm	0.0014 ppm	-0.0001 ppm	538.2921 ppm
Recovery Percentage 1	35.517 %	490,421.153 %	-168.667 %	-17.933 %	15.596 %	-2.070 %	544,120.784 %
Concentration RSD	7.8 %	1.3 %	29.8 %	14.7 %	10.8 %	21.4 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0033 ppm	0.0003 ppm	0.0007 ppm	-0.0109 ppm	181.8178 ppm	0.0096 ppm	-0.0162 ppm
Concentration per Run 1	0.0032 ppm	-0.0001 ppm	0.0005 ppm	-0.0109 ppm	184.9767 ppm	0.0515 ppm	-0.0158 ppm
Concentration per Run 2	0.0033 ppm	0.0008 ppm	0.0008 ppm	-0.0109 ppm	181.9506 ppm	-0.0192 ppm	-0.0157 ppm
Concentration per Run 3	0.0034 ppm	0.0003 ppm	0.0009 ppm	-0.0109 ppm	178.5260 ppm	-0.0036 ppm	-0.0170 ppm
Recovery Percentage 1	83.181 %	1.628 %	7.356 %	-109.012 %	363,635.556 %	0.384 %	-161.615 %
Concentration RSD	2.5 %	135.0 %	32.8 %	0.0 %	1.8 %	387.1 %	4.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	481.7578 ppm	0.0004 ppm	-0.0018 ppm	0.0479 ppm	-0.0076 ppm	-0.0122 ppm	0.0076 ppm
Concentration per Run 1	488.6564 ppm	0.0001 ppm	-0.0020 ppm	0.0414 ppm	-0.0074 ppm	-0.0122 ppm	0.0085 ppm
Concentration per Run 2	480.5616 ppm	0.0008 ppm	-0.0016 ppm	0.0499 ppm	-0.0077 ppm	-0.0123 ppm	0.0068 ppm
Concentration per Run 3	476.0554 ppm	0.0003 ppm	-0.0017 ppm	0.0523 ppm	-0.0077 ppm	-0.0121 ppm	0.0077 ppm
Recovery Percentage 1	481,757.805 %	4.074 %	-3.525 %	2.394 %	-30.385 %	-121.896 %	15.293 %
Concentration RSD	1.3 %	89.3 %	10.5 %	12.0 %	1.9 %	0.8 %	11.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0047 ppm	-0.0014 ppm	0.0008 ppm	0.0040 ppm	-0.0009 ppm	-0.0003 ppm	-0.0007 ppm
Concentration per Run 1	0.0050 ppm	-0.0003 ppm	0.0012 ppm	0.0040 ppm	-0.0008 ppm	-0.0009 ppm	-0.0009 ppm
Concentration per Run 2	0.0046 ppm	-0.0016 ppm	0.0000 ppm	0.0039 ppm	-0.0011 ppm	0.0012 ppm	-0.0006 ppm
Concentration per Run 3	0.0044 ppm	-0.0022 ppm	0.0012 ppm	0.0040 ppm	-0.0009 ppm	-0.0010 ppm	-0.0007 ppm
Recovery Percentage 1	46.568 %	-0.271 %	1.616 %	39.740 %	-9.350 %	-1.298 %	-7.477 %
Concentration RSD	7.2 %	70.7 %	81.6 %	1.5 %	14.5 %	480.7 %	17.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0011 ppm	95.0580 %	85.9157 %	86.5226 %	102.4573 %	80.6481 %	90.1335 %
Concentration per Run 1	-0.0010 ppm	93.8175 %	85.1608 %	86.4459 %	102.2643 %	80.5982 %	89.4480 %
Concentration per Run 2	-0.0013 ppm	95.5551 %	85.7871 %	86.4239 %	102.3779 %	80.8201 %	89.9833 %
Concentration per Run 3	-0.0010 ppm	95.8013 %	86.7992 %	86.6981 %	102.7298 %	80.5261 %	90.9693 %
Recovery Percentage 1	-22.324 %						
Concentration RSD	14.8 %	1.1 %	1.0 %	0.2 %	0.2 %	0.2 %	0.9 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: SIC Multi
Analysis started at: 9/25/2024 11:28:23 AM
Comments <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0272 ppm	0.0013 ppm	0.0096 ppm	0.0006 ppm	0.0036 ppm	0.0315 ppm
Concentration per Run 1	-0.0002 ppm	0.0323 ppm	0.0018 ppm	0.0091 ppm	0.0005 ppm	0.0036 ppm	0.0367 ppm
Concentration per Run 2	0.0003 ppm	0.0290 ppm	0.0005 ppm	0.0097 ppm	0.0005 ppm	0.0037 ppm	0.0335 ppm
Concentration per Run 3	-0.0005 ppm	0.0202 ppm	0.0015 ppm	0.0098 ppm	0.0007 ppm	0.0036 ppm	0.0244 ppm
Recovery Percentage 1	-1.448 %	27.163 %	25.599 %	31.864 %	5.806 %	72.968 %	31.527 %
Concentration RSD	401.1 %	23.0 %	52.4 %	4.2 %	21.0 %	2.0 %	20.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0002 ppm	0.0007 ppm	20.0960 ppm	-0.0116 ppm	-0.0627 ppm	-0.0404 ppm	0.0005 ppm
Concentration per Run 1	-0.0002 ppm	0.0007 ppm	20.0804 ppm	-0.0118 ppm	-0.0609 ppm	-0.0227 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0004 ppm	19.9695 ppm	-0.0113 ppm	-0.0622 ppm	-0.0490 ppm	0.0007 ppm
Concentration per Run 3	-0.0002 ppm	0.0008 ppm	20.2380 ppm	-0.0117 ppm	-0.0651 ppm	-0.0495 ppm	0.0006 ppm
Recovery Percentage 1	-5.030 %	3.328 %	200,959.852 %	-116.040 %	-125.430 %	-1.616 %	4.792 %
Concentration RSD	16.9 %	33.2 %	0.7 %	2.3 %	3.4 %	38.0 %	73.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0017 ppm	19.4289 ppm	0.0015 ppm	0.0261 ppm	0.0000 ppm	0.0036 ppm	0.0348 ppm
Concentration per Run 1	-0.0029 ppm	19.4282 ppm	0.0011 ppm	0.0211 ppm	-0.0001 ppm	0.0041 ppm	0.0334 ppm
Concentration per Run 2	-0.0032 ppm	19.4409 ppm	0.0015 ppm	0.0276 ppm	0.0000 ppm	0.0029 ppm	0.0362 ppm
Concentration per Run 3	0.0011 ppm	19.4176 ppm	0.0018 ppm	0.0297 ppm	0.0000 ppm	0.0039 ppm	0.0348 ppm
Recovery Percentage 1	-1.651 %	194,289.122 %	2.932 %	1.307 %	-0.129 %	36.196 %	69.575 %
Concentration RSD	146.8 %	0.1 %	23.4 %	17.2 %	116.1 %	17.9 %	4.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0021 ppm	0.0274 ppm	-0.0014 ppm	0.0003 ppm	20.0147 ppm	0.0155 ppm	10.1706 [SIC 10]
Concentration per Run 1	0.0045 ppm	0.0289 ppm	-0.0009 ppm	0.0001 ppm	19.9277 ppm	0.0158 ppm	10.1593 ppm
Concentration per Run 2	0.0003 ppm	0.0269 ppm	-0.0019 ppm	0.0004 ppm	20.0928 ppm	0.0136 ppm	10.1718 ppm
Concentration per Run 3	0.0015 ppm	0.0264 ppm	-0.0015 ppm	0.0005 ppm	20.0237 ppm	0.0170 ppm	10.1807 ppm
Recovery Percentage 1	21.344 %	5.478 %	-2.882 %	3.346 %	200,147.201 %	77.397 %	101,706.414 %
Concentration RSD	102.0 %	4.7 %	32.9 %	55.6 %	0.4 %	11.1 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0067 ppm	104.3837 %	99.6242 %	101.1257 %	111.8368 %	103.1291 %	102.6557 %
Concentration per Run 1	-0.0067 ppm	104.7141 %	99.6805 %	101.6304 %	112.8665 %	103.4954 %	102.8622 %
Concentration per Run 2	-0.0069 ppm	104.2130 %	99.5588 %	100.5578 %	111.6740 %	102.7465 %	102.5524 %
Concentration per Run 3	-0.0066 ppm	104.2239 %	99.6333 %	101.1888 %	110.9699 %	103.1453 %	102.5525 %
Recovery Percentage 1	-134.876 %						
Concentration RSD	2.8 %	0.3 %	0.1 %	0.5 %	0.9 %	0.4 %	0.2 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: LDR Check
Analysis started at: 9/25/2024 11:35:06 AM
Comments <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0025 ppm	0.0899 ppm	20.5161 ppm	23.4711 [SIC 20]	18.7721 ppm	4.8900 ppm	0.0382 ppm
Concentration per Run 1	0.0028 ppm	0.0765 ppm	20.4773 ppm	23.4111 ppm	18.8154 ppm	4.9498 ppm	0.0415 ppm
Concentration per Run 2	0.0025 ppm	0.0915 ppm	20.4905 ppm	23.4385 ppm	18.6717 ppm	4.9085 ppm	0.0432 ppm
Concentration per Run 3	0.0023 ppm	0.1016 ppm	20.5805 ppm	23.5638 ppm	18.8290 ppm	4.8117 ppm	0.0300 ppm
Recovery Percentage 1	0.000 %	0.000 %	102.580 %	117.356 %	93.860 %	97.799 %	0.000 %
Concentration RSD	9.8 %	14.1 %	0.3 %	0.3 %	0.5 %	1.4 %	18.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	4.8384 ppm	4.8316 ppm	0.0009 ppm	19.7252 ppm	0.0182 ppm	432.0994 ppm	17.7777 ppm
Concentration per Run 1	4.8396 ppm	4.8269 ppm	0.0013 ppm	19.9872 ppm	0.0186 ppm	439.3683 ppm	17.9796 ppm
Concentration per Run 2	4.8321 ppm	4.8255 ppm	0.0005 ppm	19.8851 ppm	0.0186 ppm	429.1857 ppm	17.6611 ppm
Concentration per Run 3	4.8434 ppm	4.8423 ppm	0.0010 ppm	19.3033 ppm	0.0175 ppm	427.7441 ppm	17.6923 ppm
Recovery Percentage 1	96.768 %	96.631 %	0.000 %	98.626 %	0.000 %	86.420 %	88.888 %
Concentration RSD	0.1 %	0.2 %	45.2 %	1.9 %	3.5 %	1.5 %	1.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0319 ppm	0.0024 ppm	5.1022 [SIC 20]	430.9038 [SIC 500]	9.3726 ppm	46.5565 ppm	4.9977 ppm
Concentration per Run 1	-0.0314 ppm	0.0027 ppm	5.0695 ppm	440.6508 ppm	9.3634 ppm	46.5216 ppm	4.9846 ppm
Concentration per Run 2	-0.0325 ppm	0.0028 ppm	5.1020 ppm	430.7854 ppm	9.3598 ppm	46.5007 ppm	4.9927 ppm
Concentration per Run 3	-0.0319 ppm	0.0018 ppm	5.1351 ppm	421.2752 ppm	9.3947 ppm	46.6474 ppm	5.0158 ppm
Recovery Percentage 1	0.000 %	0.000 %	102.044 %	86.181 %	93.726 %	93.113 %	99.954 %
Concentration RSD	1.7 %	23.7 %	0.6 %	2.2 %	0.2 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	4.7454 ppm	21.1224 [SIC 100]	9.2068 ppm	4.6394 ppm	0.0075 ppm	4.4461 ppm	-0.0013 ppm
Concentration per Run 1	4.7349 ppm	21.0773 ppm	9.1950 ppm	4.7251 ppm	0.0080 ppm	4.4459 ppm	-0.0012 ppm
Concentration per Run 2	4.7393 ppm	21.0855 ppm	9.1993 ppm	4.6363 ppm	0.0074 ppm	4.4432 ppm	-0.0010 ppm
Concentration per Run 3	4.7620 ppm	21.2044 ppm	9.2259 ppm	4.5567 ppm	0.0071 ppm	4.4492 ppm	-0.0017 ppm
Recovery Percentage 1	94.908 %	105.612 %	92.068 %	92.788 %	0.000 %	88.922 %	0.000 %
Concentration RSD	0.3 %	0.3 %	0.2 %	1.8 %	6.1 %	0.1 %	28.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	19.4035 ppm	96.7864 %	87.2185 %	78.9707 %	102.3395 %	90.4215 %	90.3057 %
Concentration per Run 1	19.4117 ppm	95.9572 %	86.7983 %	79.0138 %	101.6526 %	90.6411 %	89.9263 %
Concentration per Run 2	19.3784 ppm	97.1948 %	86.5892 %	78.7371 %	102.3330 %	90.2749 %	89.6881 %
Concentration per Run 3	19.4202 ppm	97.2072 %	88.2681 %	79.1613 %	103.0329 %	90.3486 %	91.3025 %
Recovery Percentage 1	97.017 %						
Concentration RSD	0.1 %	0.7 %	1.0 %	0.3 %	0.7 %	0.2 %	1.0 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: LLOQ RL 05 Fe pass
Analysis started at: 9/25/2024 11:51:00 AM
Comments <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0541 ppm	0.0473 ppm	0.0548 ppm	0.0596 ppm	0.0497 ppm	0.0508 ppm	0.0589 ppm
Concentration per Run 1	0.0538 ppm	0.0561 ppm	0.0539 ppm	0.0599 ppm	0.0496 ppm	0.0504 ppm	0.0638 ppm
Concentration per Run 2	0.0541 ppm	0.0413 ppm	0.0569 ppm	0.0597 ppm	0.0495 ppm	0.0511 ppm	0.0584 ppm
Concentration per Run 3	0.0544 ppm	0.0444 ppm	0.0535 ppm	0.0593 ppm	0.0499 ppm	0.0509 ppm	0.0547 ppm
Recovery Percentage 1	0.000 %	94.554 %	0.000 %	0.000 %	0.000 %	0.000 %	117.885 %
Concentration RSD	0.6 %	16.6 %	3.4 %	0.5 %	0.4 %	0.8 %	7.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0520 ppm	0.0530 ppm	0.0535 ppm	0.0523 ppm	0.0535 ppm	0.6509 ppm	0.0539 ppm
Concentration per Run 1	0.0518 ppm	0.0530 ppm	0.0535 ppm	0.0524 ppm	0.0518 ppm	0.6037 ppm	0.0522 ppm
Concentration per Run 2	0.0522 ppm	0.0531 ppm	0.0533 ppm	0.0522 ppm	0.0546 ppm	0.6771 ppm	0.0550 ppm
Concentration per Run 3	0.0519 ppm	0.0530 ppm	0.0537 ppm	0.0522 ppm	0.0542 ppm	0.6717 ppm	0.0546 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	107.093 %	26.034 %	0.000 %
Concentration RSD	0.3 %	0.1 %	0.4 %	0.2 %	2.8 %	6.3 %	2.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0564 ppm	0.0509 ppm	0.0532 ppm	1.1798 ppm	0.0537 ppm	0.0539 ppm	0.0544 ppm
Concentration per Run 1	0.0563 ppm	0.0502 ppm	0.0533 ppm	1.1828 ppm	0.0538 ppm	0.0538 ppm	0.0531 ppm
Concentration per Run 2	0.0562 ppm	0.0518 ppm	0.0531 ppm	1.1888 ppm	0.0536 ppm	0.0543 ppm	0.0546 ppm
Concentration per Run 3	0.0566 ppm	0.0508 ppm	0.0533 ppm	1.1679 ppm	0.0536 ppm	0.0535 ppm	0.0555 ppm
Recovery Percentage 1	112.743 %	0.000 %	0.000 %	117.981 %	0.000 %	0.000 %	108.824 %
Concentration RSD	0.3 %	1.6 %	0.2 %	0.9 %	0.2 %	0.7 %	2.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0523 ppm	0.5724 ppm	0.0505 ppm	0.0487 ppm	0.0532 ppm	0.0533 ppm	0.0514 ppm
Concentration per Run 1	0.0528 ppm	0.5714 ppm	0.0502 ppm	0.0482 ppm	0.0532 ppm	0.0526 ppm	0.0515 ppm
Concentration per Run 2	0.0510 ppm	0.5749 ppm	0.0506 ppm	0.0491 ppm	0.0535 ppm	0.0536 ppm	0.0515 ppm
Concentration per Run 3	0.0532 ppm	0.5709 ppm	0.0507 ppm	0.0489 ppm	0.0529 ppm	0.0538 ppm	0.0512 ppm
Recovery Percentage 1	0.000 %	114.480 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	2.2 %	0.4 %	0.5 %	1.1 %	0.5 %	1.3 %	0.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0527 ppm	100.1630 %	98.2871 %	97.6812 %	99.6420 %	99.2388 %	99.2354 %
Concentration per Run 1	0.0525 ppm	100.9220 %	98.9954 %	98.2833 %	98.6732 %	99.6576 %	99.7232 %
Concentration per Run 2	0.0530 ppm	99.3933 %	98.0646 %	97.4205 %	99.3362 %	98.8652 %	99.1207 %
Concentration per Run 3	0.0526 ppm	100.1736 %	97.8014 %	97.3399 %	100.9165 %	99.1937 %	98.8622 %
Recovery Percentage 1	105.403 %						
Concentration RSD	0.5 %	0.8 %	0.6 %	0.5 %	1.2 %	0.4 %	0.4 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: LDR 300 K pass
Analysis started at: 9/25/2024 12:00:08 PM
Comments <Comment>
Rack: 1
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0023 ppm	0.0046 ppm	0.0001 ppm	0.0000 ppm	0.0089 ppm
Concentration per Run 1	-0.0001 ppm	0.0023 ppm	0.0033 ppm	0.0046 ppm	-0.0001 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 2	-0.0001 ppm	-0.0025 ppm	0.0026 ppm	0.0046 ppm	0.0000 ppm	0.0000 ppm	0.0092 ppm
Concentration per Run 3	-0.0003 ppm	-0.0001 ppm	0.0011 ppm	0.0045 ppm	0.0002 ppm	-0.0001 ppm	0.0119 ppm
Concentration RSD	83.0 %	2,397.8 %	47.5 %	1.3 %	202.6 %	402.8 %	35.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0042 ppm	284.3886 ppm	0.0020 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0037 ppm	278.0158 ppm	0.0022 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0010 ppm	0.0004 ppm	0.0065 ppm	282.9604 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0023 ppm	292.1894 ppm	0.0025 ppm
Concentration RSD	999.6 %	184.3 %	82.3 %	50.3 %	52.1 %	2.5 %	29.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0009 ppm	0.0319 ppm	0.0001 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0010 ppm	0.0389 ppm	-0.0002 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 2	0.0006 ppm	-0.0004 ppm	0.0009 ppm	0.0284 ppm	0.0002 ppm	-0.0007 ppm	0.0011 ppm
Concentration per Run 3	-0.0008 ppm	-0.0002 ppm	0.0009 ppm	0.0284 ppm	0.0002 ppm	-0.0008 ppm	-0.0004 ppm
Concentration RSD	1,531.6 %	30.9 %	5.6 %	19.0 %	267.4 %	130.3 %	161.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0013 ppm	0.0014 ppm	-0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0022 ppm	-0.0002 ppm	-0.0001 ppm	-0.0003 ppm	-0.0022 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0014 ppm	-0.0008 ppm	0.0002 ppm	0.0002 ppm	0.0018 ppm	0.0001 ppm
Concentration per Run 3	-0.0031 ppm	0.0006 ppm	-0.0006 ppm	-0.0002 ppm	-0.0003 ppm	0.0010 ppm	0.0004 ppm
Concentration RSD	125.3 %	56.3 %	59.4 %	1,097.7 %	284.5 %	1,079.4 %	189.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	97.3449 %	93.7331 %	95.0831 %	99.3240 %	94.4614 %	96.1605 %
Concentration per Run 1	0.0001 ppm	100.7099 %	94.8368 %	93.4401 %	100.0378 %	92.8238 %	97.2395 %
Concentration per Run 2	0.0002 ppm	97.1021 %	93.5551 %	95.5707 %	100.1487 %	95.1064 %	95.9876 %
Concentration per Run 3	0.0001 ppm	94.2226 %	92.8073 %	96.2386 %	97.7855 %	95.4540 %	95.2544 %
Concentration RSD	47.6 %	3.3 %	1.1 %	1.5 %	1.3 %	1.5 %	1.0 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: LDR 300 Na pass
Analysis started at: 9/25/2024 12:06:25 PM
Comments <Comment>
Rack: 1
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	-0.0024 ppm	0.0001 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0089 ppm
Concentration per Run 1	-0.0007 ppm	0.0006 ppm	0.0006 ppm	0.0029 ppm	0.0001 ppm	0.0000 ppm	0.0106 ppm
Concentration per Run 2	-0.0003 ppm	-0.0064 ppm	0.0003 ppm	0.0029 ppm	0.0001 ppm	0.0000 ppm	0.0077 ppm
Concentration per Run 3	0.0000 ppm	-0.0016 ppm	-0.0006 ppm	0.0025 ppm	0.0000 ppm	-0.0001 ppm	0.0085 ppm
Concentration RSD	112.9 %	147.2 %	481.2 %	7.3 %	89.1 %	153.4 %	17.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0003 ppm	0.0030 ppm	0.5757 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0002 ppm	0.0022 ppm	0.5891 ppm	-0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0028 ppm	0.5380 ppm	0.0043 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0005 ppm	0.0003 ppm	0.0041 ppm	0.5999 ppm	0.0011 ppm
Concentration RSD	107.1 %	77.6 %	44.5 %	43.1 %	32.5 %	5.7 %	194.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0007 ppm	-0.0001 ppm	0.0006 ppm	286.5295 ppm	0.0001 ppm	-0.0004 ppm	0.0009 ppm
Concentration per Run 1	0.0014 ppm	-0.0004 ppm	0.0006 ppm	295.0259 ppm	-0.0003 ppm	-0.0004 ppm	0.0010 ppm
Concentration per Run 2	0.0003 ppm	0.0001 ppm	0.0005 ppm	285.5717 ppm	0.0000 ppm	-0.0004 ppm	-0.0002 ppm
Concentration per Run 3	0.0005 ppm	-0.0001 ppm	0.0006 ppm	278.9910 ppm	0.0004 ppm	-0.0006 ppm	0.0019 ppm
Concentration RSD	82.9 %	170.5 %	11.7 %	2.8 %	517.5 %	30.5 %	118.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0008 ppm	0.0015 ppm	-0.0004 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0021 ppm	-0.0002 ppm	0.0002 ppm	-0.0006 ppm	0.0013 ppm	0.0001 ppm
Concentration per Run 2	0.0013 ppm	0.0017 ppm	-0.0008 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	-0.0004 ppm
Concentration per Run 3	0.0016 ppm	0.0007 ppm	-0.0003 ppm	0.0002 ppm	-0.0004 ppm	-0.0014 ppm	0.0000 ppm
Concentration RSD	136.4 %	49.7 %	77.9 %	81.2 %	33.8 %	1,104.9 %	295.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0000 ppm	101.9238 %	93.5821 %	94.7383 %	102.8656 %	93.8409 %	95.9604 %
Concentration per Run 1	0.0000 ppm	101.7392 %	93.3721 %	94.4866 %	101.2663 %	93.6648 %	95.7645 %
Concentration per Run 2	-0.0001 ppm	101.7113 %	93.5842 %	95.0204 %	102.7719 %	93.9503 %	95.9377 %
Concentration per Run 3	0.0001 ppm	102.3211 %	93.7899 %	94.7079 %	104.5587 %	93.9074 %	96.1792 %
Concentration RSD	291.9 %	0.3 %	0.2 %	0.3 %	1.6 %	0.2 %	0.2 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: LDR 20 B pass
Analysis started at: 9/25/2024 12:14:38 PM
Comments <Comment>
Rack: 1
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	-0.0063 ppm	0.0020 ppm	18.9972 ppm	0.0000 ppm	0.0000 ppm	0.0036 ppm
Concentration per Run 1	-0.0005 ppm	-0.0052 ppm	0.0010 ppm	19.0356 ppm	-0.0002 ppm	0.0000 ppm	0.0033 ppm
Concentration per Run 2	-0.0008 ppm	-0.0043 ppm	0.0031 ppm	19.1124 ppm	0.0002 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 3	-0.0001 ppm	-0.0095 ppm	0.0021 ppm	18.8437 ppm	0.0000 ppm	0.0000 ppm	0.0068 ppm
Concentration RSD	75.2 %	43.7 %	51.7 %	0.7 %	4,533.1 %	192.9 %	84.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0007 ppm	-0.0001 ppm	0.0036 ppm	0.0253 ppm	0.0009 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0001 ppm	0.0041 ppm	0.0385 ppm	0.0012 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0001 ppm	0.0040 ppm	0.0211 ppm	-0.0005 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0008 ppm	-0.0004 ppm	0.0026 ppm	0.0163 ppm	0.0020 ppm
Concentration RSD	4.5 %	470.0 %	8.7 %	240.4 %	23.2 %	46.1 %	140.4 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0015 ppm	0.0002 ppm	0.0000 ppm	0.1291 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.0030 ppm	-0.0003 ppm	-0.0002 ppm	0.1537 ppm	0.0005 ppm	0.0001 ppm	0.0014 ppm
Concentration per Run 2	0.0004 ppm	0.0005 ppm	0.0002 ppm	0.1335 ppm	-0.0001 ppm	-0.0010 ppm	-0.0003 ppm
Concentration per Run 3	0.0010 ppm	0.0004 ppm	0.0000 ppm	0.1000 ppm	0.0002 ppm	-0.0002 ppm	0.0004 ppm
Concentration RSD	93.0 %	272.7 %	1,375.4 %	21.0 %	163.4 %	152.5 %	176.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0003 ppm	-0.0006 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 1	0.0013 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 2	-0.0004 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 3	-0.0001 ppm	-0.0009 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0001 ppm
Concentration RSD	346.8 %	72.8 %	203.3 %	97.6 %	83.6 %	115.9 %	86.7 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0001 ppm	102.1466 %	99.3581 %	98.0983 %	100.2072 %	99.2318 %	100.3106 %
Concentration per Run 1	0.0002 ppm	100.5368 %	98.6499 %	98.2029 %	98.0268 %	99.0244 %	99.4591 %
Concentration per Run 2	0.0001 ppm	103.0567 %	99.2215 %	97.5437 %	100.6223 %	98.7511 %	99.9885 %
Concentration per Run 3	0.0001 ppm	102.8464 %	100.2031 %	98.5484 %	101.9724 %	99.9201 %	101.4841 %
Concentration RSD	50.5 %	1.4 %	0.8 %	0.5 %	2.0 %	0.6 %	1.0 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: CCV
Analysis started at: 9/25/2024 12:21:11 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5091 ppm	0.4801 ppm	0.4827 ppm	0.5140 ppm	0.4768 ppm	0.4863 ppm	0.4830 ppm
Concentration per Run 1	0.5091 ppm	0.4781 ppm	0.4856 ppm	0.5176 ppm	0.4770 ppm	0.4870 ppm	0.4878 ppm
Concentration per Run 2	0.5094 ppm	0.4706 ppm	0.4800 ppm	0.5122 ppm	0.4744 ppm	0.4830 ppm	0.4784 ppm
Concentration per Run 3	0.5087 ppm	0.4917 ppm	0.4826 ppm	0.5122 ppm	0.4790 ppm	0.4890 ppm	0.4827 ppm
Recovery Percentage 1	101.813 %	96.022 %	96.547 %	102.798 %	95.366 %	97.268 %	96.594 %
Concentration RSD	0.1 %	2.2 %	0.6 %	0.6 %	0.5 %	0.6 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4887 ppm	0.4966 ppm	0.4981 ppm	0.4875 ppm	0.4875 ppm	5.1132 ppm	0.4865 ppm
Concentration per Run 1	0.4905 ppm	0.4984 ppm	0.4979 ppm	0.4867 ppm	0.4839 ppm	5.1328 ppm	0.4873 ppm
Concentration per Run 2	0.4863 ppm	0.4939 ppm	0.4978 ppm	0.4878 ppm	0.4844 ppm	5.0805 ppm	0.4853 ppm
Concentration per Run 3	0.4891 ppm	0.4974 ppm	0.4985 ppm	0.4880 ppm	0.4940 ppm	5.1263 ppm	0.4868 ppm
Recovery Percentage 1	97.730 %	99.314 %	99.614 %	97.502 %	97.491 %	102.264 %	97.291 %
Concentration RSD	0.4 %	0.5 %	0.1 %	0.1 %	1.2 %	0.6 %	0.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5008 ppm	0.4797 ppm	0.4799 ppm	10.2522 ppm	0.4966 ppm	0.4943 ppm	0.4900 ppm
Concentration per Run 1	0.5015 ppm	0.4805 ppm	0.4771 ppm	10.3521 ppm	0.4992 ppm	0.4972 ppm	0.4909 ppm
Concentration per Run 2	0.5003 ppm	0.4764 ppm	0.4781 ppm	10.2081 ppm	0.4939 ppm	0.4923 ppm	0.4901 ppm
Concentration per Run 3	0.5005 ppm	0.4821 ppm	0.4846 ppm	10.1965 ppm	0.4967 ppm	0.4933 ppm	0.4888 ppm
Recovery Percentage 1	100.152 %	95.935 %	95.987 %	102.522 %	99.324 %	98.855 %	97.990 %
Concentration RSD	0.1 %	0.6 %	0.9 %	0.8 %	0.5 %	0.5 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4901 ppm	5.3693 ppm	0.4597 ppm	0.4572 ppm	0.4983 ppm	0.4977 ppm	0.4868 ppm
Concentration per Run 1	0.4911 ppm	5.3951 ppm	0.4626 ppm	0.4582 ppm	0.4977 ppm	0.4992 ppm	0.4856 ppm
Concentration per Run 2	0.4875 ppm	5.3432 ppm	0.4571 ppm	0.4544 ppm	0.4988 ppm	0.4948 ppm	0.4871 ppm
Concentration per Run 3	0.4918 ppm	5.3697 ppm	0.4593 ppm	0.4590 ppm	0.4983 ppm	0.4989 ppm	0.4877 ppm
Recovery Percentage 1	98.023 %	102.273 %	91.935 %	91.433 %	99.652 %	99.533 %	97.357 %
Concentration RSD	0.5 %	0.5 %	0.6 %	0.5 %	0.1 %	0.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4963 ppm	98.9936 %	97.0752 %	97.0022 %	103.3786 %	100.0812 %	99.9759 %
Concentration per Run 1	0.4984 ppm	98.6832 %	97.2586 %	96.8176 %	102.3298 %	99.7072 %	100.1739 %
Concentration per Run 2	0.4938 ppm	98.9961 %	97.1005 %	97.2793 %	103.2832 %	100.5535 %	100.0084 %
Concentration per Run 3	0.4967 ppm	99.3014 %	96.8665 %	96.9098 %	104.5228 %	99.9829 %	99.7454 %
Recovery Percentage 1	99.263 %						
Concentration RSD	0.5 %	0.3 %	0.2 %	0.3 %	1.1 %	0.4 %	0.2 %

LabBook: WG1976104_09252024T5.imexp

Sample: CCB
Analysis started at: 9/25/2024 12:27:15 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0006 ppm	-0.0004 ppm	0.0125 ppm	0.0005 ppm	0.0001 ppm	0.0061 ppm
Concentration per Run 1	-0.0001 ppm	0.0060 ppm	0.0007 ppm	0.0136 ppm	0.0004 ppm	0.0002 ppm	0.0072 ppm
Concentration per Run 2	-0.0001 ppm	0.0016 ppm	-0.0006 ppm	0.0122 ppm	0.0005 ppm	0.0001 ppm	0.0086 ppm
Concentration per Run 3	-0.0007 ppm	-0.0057 ppm	-0.0012 ppm	0.0117 ppm	0.0006 ppm	0.0001 ppm	0.0027 ppm
Recovery Percentage 1	-4.383 %	0.634 %	-7.214 %	41.767 %	4.957 %	2.552 %	6.145 %
Concentration RSD	121.0 %	935.3 %	270.4 %	7.9 %	11.5 %	30.5 %	50.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0016 ppm	0.0175 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0019 ppm	-0.0005 ppm	0.0038 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0020 ppm	0.0330 ppm	-0.0021 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0010 ppm	0.0200 ppm	0.0015 ppm
Recovery Percentage 1	0.767 %	0.463 %	3.385 %	-0.146 %	3.263 %	0.700 %	10.736 %
Concentration RSD	78.3 %	38.9 %	75.8 %	434.2 %	35.6 %	96.5 %	280.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0009 ppm	0.0001 ppm	0.0021 ppm	0.0201 ppm	0.0002 ppm	-0.0007 ppm	0.0020 ppm
Concentration per Run 1	0.0007 ppm	0.0000 ppm	0.0025 ppm	0.0212 ppm	0.0005 ppm	-0.0001 ppm	0.0021 ppm
Concentration per Run 2	-0.0005 ppm	0.0003 ppm	0.0019 ppm	0.0231 ppm	-0.0001 ppm	-0.0011 ppm	0.0019 ppm
Concentration per Run 3	-0.0028 ppm	0.0001 ppm	0.0018 ppm	0.0161 ppm	0.0002 ppm	-0.0010 ppm	0.0021 ppm
Recovery Percentage 1	-0.868 %	1.224 %	4.136 %	1.007 %	0.651 %	-7.310 %	4.015 %
Concentration RSD	200.8 %	140.8 %	17.4 %	18.1 %	190.0 %	73.4 %	5.6 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0004 ppm	0.0005 ppm	0.0000 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 2	-0.0020 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0010 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm	-0.0015 ppm	0.0002 ppm
Recovery Percentage 1	-6.439 %	0.137 %	-0.055 %	2.612 %	0.704 %	-2.666 %	1.529 %
Concentration RSD	181.3 %	51.6 %	1,150.3 %	94.4 %	204.1 %	237.0 %	148.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0002 ppm	97.2454 %	95.6101 %	95.8585 %	97.8342 %	96.8332 %	96.2859 %
Concentration per Run 1	-0.0003 ppm	99.5172 %	95.8164 %	96.3434 %	98.5475 %	97.2639 %	96.5038 %
Concentration per Run 2	-0.0001 ppm	95.7462 %	95.8381 %	95.8133 %	96.8553 %	96.5231 %	96.4954 %
Concentration per Run 3	-0.0002 ppm	96.4728 %	95.1759 %	95.4187 %	98.0998 %	96.7127 %	95.8585 %
Recovery Percentage 1	-3.926 %						
Concentration RSD	44.7 %	2.1 %	0.4 %	0.5 %	0.9 %	0.4 %	0.4 %

ICP DataTrace 5

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LabBook: WG1976104_09252024T5.imexp

Sample: L2453672-01 WG1975268
Analysis started at: 9/25/2024 12:36:49 PM
Comments <Comment>
Rack: 1
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0051 ppm	0.0017 ppm	0.0362 ppm	0.0138 ppm	-0.0001 ppm	9.6399 ppm
Concentration per Run 1	-0.0001 ppm	0.0169 ppm	0.0024 ppm	0.0361 ppm	0.0138 ppm	-0.0001 ppm	9.7112 ppm
Concentration per Run 2	0.0001 ppm	-0.0068 ppm	0.0020 ppm	0.0368 ppm	0.0138 ppm	0.0000 ppm	9.5591 ppm
Concentration per Run 3	0.0003 ppm	0.0053 ppm	0.0007 ppm	0.0358 ppm	0.0138 ppm	0.0000 ppm	9.6492 ppm
Concentration RSD	206.4 %	230.5 %	50.8 %	1.4 %	0.2 %	143.6 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0096 ppm	0.0066 ppm	5.0578 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0097 ppm	0.0063 ppm	5.1231 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0091 ppm	0.0082 ppm	4.9402 ppm	0.0030 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0101 ppm	0.0054 ppm	5.1101 ppm	0.0036 ppm
Concentration RSD	58.9 %	60.4 %	112.1 %	5.0 %	22.2 %	2.0 %	59.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.0503 ppm	0.0193 ppm	0.0012 ppm	187.3217 ppm	0.0007 ppm	-0.0012 ppm	0.0004 ppm
Concentration per Run 1	3.0497 ppm	0.0190 ppm	0.0010 ppm	193.9673 ppm	0.0006 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 2	3.0574 ppm	0.0195 ppm	0.0015 ppm	185.6215 ppm	0.0008 ppm	-0.0014 ppm	0.0005 ppm
Concentration per Run 3	3.0439 ppm	0.0193 ppm	0.0011 ppm	182.3763 ppm	0.0008 ppm	-0.0010 ppm	0.0007 ppm
Concentration RSD	0.2 %	1.2 %	18.8 %	3.2 %	13.5 %	17.5 %	74.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0008 ppm	1.6562 ppm	-0.0001 ppm	0.0748 ppm	-0.0002 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 1	-0.0015 ppm	1.6659 ppm	-0.0001 ppm	0.0756 ppm	-0.0001 ppm	-0.0028 ppm	0.0008 ppm
Concentration per Run 2	-0.0021 ppm	1.6563 ppm	-0.0002 ppm	0.0738 ppm	0.0001 ppm	0.0010 ppm	0.0010 ppm
Concentration per Run 3	0.0014 ppm	1.6463 ppm	0.0001 ppm	0.0749 ppm	-0.0008 ppm	0.0003 ppm	0.0006 ppm
Concentration RSD	250.8 %	0.6 %	249.8 %	1.2 %	201.0 %	409.5 %	27.5 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0050 ppm	100.6609 %	93.9486 %	94.9295 %	93.3962 %	92.8162 %	93.2478 %
Concentration per Run 1	0.0051 ppm	99.4114 %	94.3813 %	95.0636 %	89.9493 %	92.6738 %	93.3639 %
Concentration per Run 2	0.0049 ppm	101.6892 %	93.4104 %	94.6329 %	94.2647 %	92.4830 %	92.6016 %
Concentration per Run 3	0.0052 ppm	100.8821 %	94.0543 %	95.0920 %	95.9746 %	93.2917 %	93.7780 %
Concentration RSD	3.1 %	1.1 %	0.5 %	0.3 %	3.3 %	0.5 %	0.6 %

ICP DataTrace 5

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LabBook: WG1976104_09252024T5.imexp

Sample: L2453720-01 WG1975268
Analysis started at: 9/25/2024 12:43:04 PM
Comments <Comment>
Rack: 1
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.1395 ppm	0.0016 ppm	0.0111 ppm	0.0676 ppm	0.0000 ppm	7.4822 ppm
Concentration per Run 1	-0.0008 ppm	0.1360 ppm	0.0006 ppm	0.0110 ppm	0.0692 ppm	0.0001 ppm	7.6873 ppm
Concentration per Run 2	-0.0007 ppm	0.1474 ppm	0.0031 ppm	0.0110 ppm	0.0669 ppm	0.0000 ppm	7.3715 ppm
Concentration per Run 3	0.0000 ppm	0.1352 ppm	0.0011 ppm	0.0112 ppm	0.0665 ppm	0.0000 ppm	7.3877 ppm
Concentration RSD	94.3 %	4.9 %	80.4 %	1.2 %	2.1 %	108.8 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0002 ppm	0.0001 ppm	0.0018 ppm	0.0019 ppm	0.1192 ppm	1.0211 ppm	0.0015 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0020 ppm	0.0019 ppm	0.1206 ppm	1.0424 ppm	-0.0007 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0014 ppm	0.0019 ppm	0.1176 ppm	0.9926 ppm	0.0019 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.0019 ppm	0.0020 ppm	0.1195 ppm	1.0281 ppm	0.0031 ppm
Concentration RSD	7.9 %	66.8 %	17.3 %	3.6 %	1.3 %	2.5 %	133.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.4656 ppm	0.1059 ppm	0.0003 ppm	8.0318 ppm	0.0013 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	2.4774 ppm	0.1081 ppm	0.0000 ppm	8.3612 ppm	0.0014 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 2	2.4602 ppm	0.1045 ppm	0.0003 ppm	7.9686 ppm	0.0013 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 3	2.4593 ppm	0.1051 ppm	0.0004 ppm	7.7657 ppm	0.0012 ppm	-0.0010 ppm	-0.0004 ppm
Concentration RSD	0.4 %	1.8 %	70.3 %	3.8 %	8.1 %	69.7 %	598.4 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0025 ppm	4.0864 ppm	-0.0005 ppm	0.0267 ppm	0.0068 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.0024 ppm	4.1126 ppm	-0.0008 ppm	0.0275 ppm	0.0074 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 2	0.0006 ppm	4.0782 ppm	-0.0002 ppm	0.0263 ppm	0.0065 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 3	0.0044 ppm	4.0685 ppm	-0.0005 ppm	0.0263 ppm	0.0067 ppm	0.0023 ppm	0.0002 ppm
Concentration RSD	76.4 %	0.6 %	66.4 %	2.7 %	6.8 %	792.6 %	42.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0013 ppm	102.3372 %	98.9650 %	98.9096 %	94.4417 %	99.2497 %	97.3587 %
Concentration per Run 1	0.0013 ppm	100.3035 %	98.8697 %	99.4188 %	91.2215 %	98.9376 %	96.8672 %
Concentration per Run 2	0.0013 ppm	103.9084 %	99.4168 %	99.0240 %	95.5431 %	99.5358 %	97.8247 %
Concentration per Run 3	0.0013 ppm	102.7998 %	98.6085 %	98.2860 %	96.5605 %	99.2757 %	97.3841 %
Concentration RSD	0.9 %	1.8 %	0.4 %	0.6 %	3.0 %	0.3 %	0.5 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: L2453720-03 WG1975268
Analysis started at: 9/25/2024 12:49:19 PM
Comments <Comment>
Rack: 1
Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0006 ppm	0.1349 ppm	0.0010 ppm	0.0104 ppm	0.0662 ppm	0.0000 ppm	7.3211 ppm
Concentration per Run 1	0.0000 ppm	0.1377 ppm	0.0016 ppm	0.0105 ppm	0.0678 ppm	0.0001 ppm	7.5326 ppm
Concentration per Run 2	-0.0013 ppm	0.1265 ppm	0.0013 ppm	0.0107 ppm	0.0659 ppm	0.0000 ppm	7.2516 ppm
Concentration per Run 3	-0.0006 ppm	0.1405 ppm	0.0002 ppm	0.0101 ppm	0.0648 ppm	0.0000 ppm	7.1792 ppm
Concentration RSD	100.7 %	5.5 %	71.4 %	3.1 %	2.3 %	118.0 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0015 ppm	0.0015 ppm	0.1200 ppm	1.0030 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	0.0018 ppm	0.0013 ppm	0.1222 ppm	1.0484 ppm	-0.0018 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0012 ppm	0.0017 ppm	0.1180 ppm	0.9909 ppm	0.0008 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0016 ppm	0.0015 ppm	0.1199 ppm	0.9696 ppm	0.0013 ppm
Concentration RSD	9.8 %	54.2 %	21.5 %	15.0 %	1.8 %	4.1 %	1,508.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.4087 ppm	0.1038 ppm	0.0002 ppm	7.6980 ppm	0.0012 ppm	-0.0005 ppm	0.0007 ppm
Concentration per Run 1	2.4121 ppm	0.1068 ppm	0.0002 ppm	8.0459 ppm	0.0014 ppm	-0.0008 ppm	0.0025 ppm
Concentration per Run 2	2.4073 ppm	0.1026 ppm	0.0001 ppm	7.6145 ppm	0.0009 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 3	2.4067 ppm	0.1019 ppm	0.0002 ppm	7.4335 ppm	0.0012 ppm	-0.0002 ppm	-0.0002 ppm
Concentration RSD	0.1 %	2.6 %	36.0 %	4.1 %	23.2 %	64.4 %	209.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0001 ppm	3.9772 ppm	-0.0005 ppm	0.0261 ppm	0.0075 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 1	-0.0004 ppm	4.0041 ppm	-0.0004 ppm	0.0266 ppm	0.0076 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 2	0.0002 ppm	3.9839 ppm	-0.0008 ppm	0.0260 ppm	0.0073 ppm	-0.0018 ppm	0.0008 ppm
Concentration per Run 3	-0.0001 ppm	3.9437 ppm	-0.0002 ppm	0.0257 ppm	0.0075 ppm	0.0019 ppm	0.0004 ppm
Concentration RSD	378.4 %	0.8 %	64.9 %	1.8 %	1.9 %	439.9 %	36.8 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0015 ppm	101.4316 %	98.8050 %	99.0914 %	94.4147 %	99.2299 %	97.0962 %
Concentration per Run 1	0.0015 ppm	98.3847 %	99.1016 %	99.6722 %	89.8560 %	98.9516 %	97.0444 %
Concentration per Run 2	0.0014 ppm	102.9988 %	99.2322 %	98.7431 %	95.7590 %	99.0328 %	97.6133 %
Concentration per Run 3	0.0016 ppm	102.9112 %	98.0811 %	98.8589 %	97.6292 %	99.7053 %	96.6308 %
Concentration RSD	8.9 %	2.6 %	0.6 %	0.5 %	4.3 %	0.4 %	0.5 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: L2453720-04 WG1975268
Analysis started at: 9/25/2024 12:55:35 PM
Comments <Comment>
Rack: 1
Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0039 ppm	0.0013 ppm	0.0025 ppm	0.0005 ppm	-0.0001 ppm	0.0268 ppm
Concentration per Run 1	-0.0005 ppm	-0.0022 ppm	0.0016 ppm	0.0024 ppm	0.0006 ppm	-0.0001 ppm	0.0325 ppm
Concentration per Run 2	-0.0007 ppm	0.0107 ppm	0.0015 ppm	0.0023 ppm	0.0004 ppm	0.0000 ppm	0.0265 ppm
Concentration per Run 3	-0.0001 ppm	0.0031 ppm	0.0008 ppm	0.0027 ppm	0.0006 ppm	0.0000 ppm	0.0214 ppm
Concentration RSD	77.4 %	167.4 %	36.8 %	8.6 %	18.7 %	35.0 %	20.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0064 ppm	0.0361 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0068 ppm	0.0269 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0068 ppm	0.0338 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0057 ppm	0.0475 ppm	-0.0001 ppm
Concentration RSD	99.5 %	133.1 %	480.3 %	49.8 %	9.6 %	29.0 %	142.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0054 ppm	0.0003 ppm	0.0000 ppm	0.0273 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 1	0.0038 ppm	0.0006 ppm	-0.0001 ppm	0.0228 ppm	0.0001 ppm	-0.0006 ppm	-0.0015 ppm
Concentration per Run 2	0.0056 ppm	0.0003 ppm	-0.0002 ppm	0.0209 ppm	-0.0001 ppm	0.0009 ppm	-0.0012 ppm
Concentration per Run 3	0.0067 ppm	0.0001 ppm	0.0001 ppm	0.0381 ppm	0.0001 ppm	-0.0003 ppm	-0.0008 ppm
Concentration RSD	27.8 %	66.9 %	454.2 %	34.7 %	199.6 %	3,676.0 %	33.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	0.0112 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0110 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	-0.0002 ppm
Concentration per Run 2	-0.0015 ppm	0.0108 ppm	-0.0005 ppm	0.0002 ppm	-0.0004 ppm	0.0016 ppm	0.0004 ppm
Concentration per Run 3	-0.0003 ppm	0.0118 ppm	-0.0007 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	-0.0001 ppm
Concentration RSD	71.1 %	4.4 %	54.1 %	45.1 %	15,067.2 %	78.4 %	570.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0004 ppm	101.2722 %	100.9202 %	99.9214 %	93.3334 %	100.5278 %	99.1352 %
Concentration per Run 1	0.0004 ppm	98.8452 %	101.7236 %	99.9878 %	88.4845 %	100.0133 %	99.5247 %
Concentration per Run 2	0.0004 ppm	102.1878 %	100.5640 %	99.7337 %	94.1883 %	100.4167 %	98.7598 %
Concentration per Run 3	0.0003 ppm	102.7837 %	100.4731 %	100.0428 %	97.3274 %	101.1532 %	99.1211 %
Concentration RSD	25.9 %	2.1 %	0.7 %	0.2 %	4.8 %	0.6 %	0.4 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: L2453720-06 WG1975268
Analysis started at: 9/25/2024 1:01:50 PM
Comments <Comment>
Rack: 1
Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0857 ppm	0.0026 ppm	0.0190 ppm	0.0443 ppm	-0.0001 ppm	14.3804 ppm
Concentration per Run 1	-0.0007 ppm	0.0950 ppm	0.0022 ppm	0.0192 ppm	0.0458 ppm	-0.0001 ppm	14.7956 ppm
Concentration per Run 2	0.0000 ppm	0.0794 ppm	0.0025 ppm	0.0187 ppm	0.0433 ppm	0.0000 ppm	14.1853 ppm
Concentration per Run 3	-0.0003 ppm	0.0828 ppm	0.0031 ppm	0.0191 ppm	0.0437 ppm	-0.0001 ppm	14.1604 ppm
Concentration RSD	111.2 %	9.6 %	18.3 %	1.3 %	3.0 %	88.5 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0024 ppm	0.0004 ppm	0.1885 ppm	1.2406 ppm	0.0022 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	0.0023 ppm	-0.0005 ppm	0.1919 ppm	1.2794 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0028 ppm	0.0008 ppm	0.1861 ppm	1.2114 ppm	0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0007 ppm	0.0020 ppm	0.0008 ppm	0.1876 ppm	1.2310 ppm	0.0018 ppm
Concentration RSD	172.9 %	36.0 %	17.0 %	192.8 %	1.6 %	2.8 %	16.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.9684 ppm	0.0053 ppm	0.0001 ppm	20.7002 ppm	0.0006 ppm	0.0002 ppm	-0.0009 ppm
Concentration per Run 1	6.9875 ppm	0.0049 ppm	0.0002 ppm	21.6928 ppm	0.0005 ppm	0.0006 ppm	-0.0009 ppm
Concentration per Run 2	6.9654 ppm	0.0053 ppm	0.0001 ppm	20.4875 ppm	0.0006 ppm	0.0000 ppm	-0.0017 ppm
Concentration per Run 3	6.9523 ppm	0.0057 ppm	0.0000 ppm	19.9204 ppm	0.0006 ppm	-0.0002 ppm	0.0000 ppm
Concentration RSD	0.3 %	7.2 %	100.4 %	4.4 %	11.1 %	278.8 %	101.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0003 ppm	9.5426 ppm	-0.0007 ppm	0.0827 ppm	0.0031 ppm	0.0005 ppm	0.0008 ppm
Concentration per Run 1	-0.0020 ppm	9.6135 ppm	-0.0011 ppm	0.0850 ppm	0.0030 ppm	0.0007 ppm	0.0006 ppm
Concentration per Run 2	0.0020 ppm	9.5458 ppm	-0.0003 ppm	0.0815 ppm	0.0033 ppm	0.0011 ppm	0.0008 ppm
Concentration per Run 3	-0.0009 ppm	9.4686 ppm	-0.0006 ppm	0.0816 ppm	0.0029 ppm	-0.0003 ppm	0.0011 ppm
Concentration RSD	633.0 %	0.8 %	66.6 %	2.4 %	6.5 %	132.0 %	30.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	102.2072 %	99.5714 %	98.9090 %	95.8248 %	99.5000 %	99.4859 %
Concentration per Run 1	0.0018 ppm	99.4069 %	99.8418 %	98.6727 %	91.5982 %	98.7669 %	99.2551 %
Concentration per Run 2	0.0016 ppm	103.5917 %	99.5607 %	98.8608 %	96.6856 %	99.3371 %	99.4945 %
Concentration per Run 3	0.0015 ppm	103.6231 %	99.3117 %	99.1935 %	99.1908 %	100.3961 %	99.7083 %
Concentration RSD	8.5 %	2.4 %	0.3 %	0.3 %	4.0 %	0.8 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976104_09252024T5.imexp

Sample: L2453720-02 WG1975268
Analysis started at: 9/25/2024 1:08:02 PM
Comments <Comment>
Rack: 1
Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0224 ppm	0.0002 ppm	0.0176 ppm	0.0277 ppm	0.0000 ppm	11.3455 ppm
Concentration per Run 1	-0.0003 ppm	0.0196 ppm	-0.0016 ppm	0.0179 ppm	0.0284 ppm	0.0000 ppm	11.6892 ppm
Concentration per Run 2	0.0001 ppm	0.0268 ppm	0.0011 ppm	0.0173 ppm	0.0272 ppm	0.0001 ppm	11.1226 ppm
Concentration per Run 3	-0.0004 ppm	0.0207 ppm	0.0010 ppm	0.0176 ppm	0.0276 ppm	-0.0001 ppm	11.2247 ppm
Concentration RSD	144.9 %	17.5 %	873.5 %	1.6 %	2.1 %	650.1 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0021 ppm	0.0005 ppm	0.0589 ppm	1.1017 ppm	0.0035 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0023 ppm	0.0005 ppm	0.0602 ppm	1.1226 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0019 ppm	0.0006 ppm	0.0577 ppm	1.0973 ppm	0.0057 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0021 ppm	0.0004 ppm	0.0587 ppm	1.0851 ppm	0.0024 ppm
Concentration RSD	512.3 %	3,153.2 %	9.4 %	24.5 %	2.2 %	1.7 %	53.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.5660 ppm	0.0016 ppm	0.0001 ppm	18.0397 ppm	0.0006 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 1	5.5780 ppm	0.0016 ppm	0.0000 ppm	18.9126 ppm	0.0005 ppm	0.0003 ppm	-0.0011 ppm
Concentration per Run 2	5.5624 ppm	0.0017 ppm	0.0001 ppm	17.8164 ppm	0.0008 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	5.5576 ppm	0.0014 ppm	0.0002 ppm	17.3903 ppm	0.0004 ppm	-0.0012 ppm	0.0009 ppm
Concentration RSD	0.2 %	10.4 %	101.6 %	4.4 %	33.9 %	242.1 %	936.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0007 ppm	8.1436 ppm	-0.0002 ppm	0.0620 ppm	0.0012 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0010 ppm	8.1945 ppm	-0.0004 ppm	0.0636 ppm	0.0011 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	8.1245 ppm	-0.0001 ppm	0.0609 ppm	0.0015 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 3	0.0012 ppm	8.1119 ppm	-0.0001 ppm	0.0616 ppm	0.0011 ppm	-0.0011 ppm	0.0002 ppm
Concentration RSD	112.4 %	0.5 %	82.2 %	2.2 %	20.3 %	1,543.7 %	61.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0026 ppm	101.8048 %	99.0333 %	98.7239 %	95.9368 %	99.4876 %	98.5133 %
Concentration per Run 1	0.0026 ppm	99.3434 %	98.9314 %	98.8519 %	91.7189 %	98.9786 %	98.2188 %
Concentration per Run 2	0.0027 ppm	103.1732 %	99.4649 %	98.6091 %	96.5538 %	99.4740 %	98.9245 %
Concentration per Run 3	0.0027 ppm	102.8980 %	98.7036 %	98.7107 %	99.5376 %	100.0101 %	98.3964 %
Concentration RSD	1.7 %	2.1 %	0.4 %	0.1 %	4.1 %	0.5 %	0.4 %

ICP DataTrace 5

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LabBook: WG1976104_09252024T5.imexp

Sample: WG1975268-7 WG1975268
Analysis started at: 9/25/2024 1:14:16 PM
Comments <Comment>
Rack: 1
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0549 ppm	2.0530 ppm	0.1229 ppm	1.0040 ppm	2.0264 ppm	0.0518 ppm	21.4565 ppm
Concentration per Run 1	0.0551 ppm	2.1520 ppm	0.1252 ppm	1.0089 ppm	2.1238 ppm	0.0543 ppm	22.4574 ppm
Concentration per Run 2	0.0544 ppm	2.0234 ppm	0.1232 ppm	1.0032 ppm	1.9948 ppm	0.0510 ppm	21.1795 ppm
Concentration per Run 3	0.0553 ppm	1.9836 ppm	0.1203 ppm	0.9998 ppm	1.9606 ppm	0.0501 ppm	20.7325 ppm
Concentration RSD	0.9 %	4.3 %	2.0 %	0.5 %	4.2 %	4.3 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0551 ppm	0.5093 ppm	0.2149 ppm	0.2663 ppm	1.0703 ppm	11.2396 ppm	0.0018 ppm
Concentration per Run 1	0.0553 ppm	0.5111 ppm	0.2148 ppm	0.2670 ppm	1.1153 ppm	11.7611 ppm	0.0053 ppm
Concentration per Run 2	0.0551 ppm	0.5096 ppm	0.2151 ppm	0.2665 ppm	1.0560 ppm	11.0742 ppm	0.0006 ppm
Concentration per Run 3	0.0549 ppm	0.5072 ppm	0.2146 ppm	0.2653 ppm	1.0395 ppm	10.8834 ppm	-0.0006 ppm
Concentration RSD	0.4 %	0.4 %	0.1 %	0.3 %	3.7 %	4.1 %	173.3 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.7935 ppm	0.5092 ppm	0.8706 ppm	29.4979 ppm	0.5097 ppm	0.5325 ppm	0.5075 ppm
Concentration per Run 1	15.8192 ppm	0.5331 ppm	0.8455 ppm	31.4086 ppm	0.5125 ppm	0.5350 ppm	0.5083 ppm
Concentration per Run 2	15.7867 ppm	0.5013 ppm	0.8726 ppm	29.1039 ppm	0.5102 ppm	0.5330 ppm	0.5066 ppm
Concentration per Run 3	15.7747 ppm	0.4934 ppm	0.8938 ppm	27.9811 ppm	0.5064 ppm	0.5296 ppm	0.5076 ppm
Concentration RSD	0.1 %	4.1 %	2.8 %	5.9 %	0.6 %	0.5 %	0.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1209 ppm	9.1040 ppm	0.9400 ppm	0.9974 ppm	1.0325 ppm	0.1214 ppm	0.5252 ppm
Concentration per Run 1	0.1203 ppm	9.1468 ppm	0.9433 ppm	1.0453 ppm	1.0336 ppm	0.1228 ppm	0.5256 ppm
Concentration per Run 2	0.1226 ppm	9.1092 ppm	0.9405 ppm	0.9813 ppm	1.0322 ppm	0.1203 ppm	0.5256 ppm
Concentration per Run 3	0.1198 ppm	9.0561 ppm	0.9362 ppm	0.9656 ppm	1.0317 ppm	0.1212 ppm	0.5243 ppm
Concentration RSD	1.3 %	0.5 %	0.4 %	4.2 %	0.1 %	1.1 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5233 ppm	99.6343 %	96.7376 %	97.3446 %	95.5620 %	99.5286 %	98.2167 %
Concentration per Run 1	0.5254 ppm	95.4024 %	96.8521 %	97.2977 %	90.0457 %	99.0449 %	98.2475 %
Concentration per Run 2	0.5237 ppm	100.9788 %	96.9139 %	97.1807 %	96.4523 %	99.4879 %	98.2759 %
Concentration per Run 3	0.5208 ppm	102.5216 %	96.4467 %	97.5553 %	100.1879 %	100.0530 %	98.1266 %
Concentration RSD	0.4 %	3.8 %	0.3 %	0.2 %	5.4 %	0.5 %	0.1 %

ICP DataTrace 5

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LabBook: WG1976104_09252024T5.imexp

Sample: WG1975268-8 WG1975268
Analysis started at: 9/25/2024 1:20:20 PM
Comments <Comment>
Rack: 1
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0527 ppm	1.9813 ppm	0.1333 ppm	1.0809 ppm	1.9593 ppm	0.0498 ppm	21.7844 ppm
Concentration per Run 1	0.0528 ppm	2.0548 ppm	0.1346 ppm	1.0838 ppm	2.0215 ppm	0.0514 ppm	22.4654 ppm
Concentration per Run 2	0.0529 ppm	1.9485 ppm	0.1328 ppm	1.0823 ppm	1.9287 ppm	0.0491 ppm	21.4469 ppm
Concentration per Run 3	0.0522 ppm	1.9408 ppm	0.1325 ppm	1.0767 ppm	1.9277 ppm	0.0490 ppm	21.4408 ppm
Concentration RSD	0.7 %	3.2 %	0.9 %	0.3 %	2.8 %	2.7 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0537 ppm	0.4936 ppm	0.2046 ppm	0.2561 ppm	1.0128 ppm	11.8874 ppm	0.0014 ppm
Concentration per Run 1	0.0539 ppm	0.4962 ppm	0.2046 ppm	0.2570 ppm	1.0368 ppm	12.3090 ppm	0.0000 ppm
Concentration per Run 2	0.0537 ppm	0.4937 ppm	0.2053 ppm	0.2557 ppm	1.0003 ppm	11.6545 ppm	0.0026 ppm
Concentration per Run 3	0.0535 ppm	0.4908 ppm	0.2040 ppm	0.2556 ppm	1.0013 ppm	11.6987 ppm	0.0016 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	0.3 %	2.1 %	3.1 %	90.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	16.1410 ppm	0.4916 ppm	0.9456 ppm	29.0254 ppm	0.4937 ppm	0.5728 ppm	0.4971 ppm
Concentration per Run 1	16.1567 ppm	0.5082 ppm	0.9212 ppm	30.2572 ppm	0.4955 ppm	0.5740 ppm	0.4984 ppm
Concentration per Run 2	16.2065 ppm	0.4841 ppm	0.9484 ppm	28.7399 ppm	0.4939 ppm	0.5745 ppm	0.4956 ppm
Concentration per Run 3	16.0599 ppm	0.4826 ppm	0.9672 ppm	28.0790 ppm	0.4917 ppm	0.5700 ppm	0.4973 ppm
Concentration RSD	0.5 %	2.9 %	2.4 %	3.8 %	0.4 %	0.4 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1274 ppm	8.9807 ppm	1.0136 ppm	1.0618 ppm	1.0957 ppm	0.1294 ppm	0.5038 ppm
Concentration per Run 1	0.1283 ppm	9.0139 ppm	1.0155 ppm	1.0958 ppm	1.0971 ppm	0.1298 ppm	0.5035 ppm
Concentration per Run 2	0.1267 ppm	8.9825 ppm	1.0149 ppm	1.0461 ppm	1.0981 ppm	0.1298 ppm	0.5057 ppm
Concentration per Run 3	0.1272 ppm	8.9458 ppm	1.0104 ppm	1.0436 ppm	1.0919 ppm	0.1286 ppm	0.5021 ppm
Concentration RSD	0.7 %	0.4 %	0.3 %	2.8 %	0.3 %	0.5 %	0.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5052 ppm	102.9015 %	98.8701 %	98.4642 %	101.4869 %	100.8566 %	101.1473 %
Concentration per Run 1	0.5069 ppm	99.3103 %	99.4693 %	98.9403 %	97.0424 %	100.6584 %	101.3917 %
Concentration per Run 2	0.5058 ppm	105.1162 %	98.1401 %	98.3077 %	103.0329 %	100.7176 %	100.3838 %
Concentration per Run 3	0.5028 ppm	104.2780 %	99.0010 %	98.1446 %	104.3856 %	101.1939 %	101.6663 %
Concentration RSD	0.4 %	3.0 %	0.7 %	0.4 %	3.9 %	0.3 %	0.7 %

ICP DataTrace 5

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LabBook: WG1976104_09252024T5.imexp

Sample: WG1975268-9 WG1975268
Analysis started at: 9/25/2024 1:26:26 PM
Comments <Comment>
Rack: 1
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0502 ppm	1.8753 ppm	0.1217 ppm	0.9833 ppm	1.8743 ppm	0.0477 ppm	20.2146 ppm
Concentration per Run 1	0.0503 ppm	1.9000 ppm	0.1219 ppm	0.9875 ppm	1.9034 ppm	0.0484 ppm	20.5325 ppm
Concentration per Run 2	0.0502 ppm	1.8621 ppm	0.1208 ppm	0.9830 ppm	1.8656 ppm	0.0476 ppm	20.1258 ppm
Concentration per Run 3	0.0500 ppm	1.8636 ppm	0.1224 ppm	0.9793 ppm	1.8539 ppm	0.0472 ppm	19.9855 ppm
Concentration RSD	0.3 %	1.1 %	0.7 %	0.4 %	1.4 %	1.3 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0517 ppm	0.4817 ppm	0.2006 ppm	0.2506 ppm	0.9781 ppm	10.7244 ppm	0.0013 ppm
Concentration per Run 1	0.0521 ppm	0.4846 ppm	0.1995 ppm	0.2506 ppm	0.9882 ppm	10.8917 ppm	0.0036 ppm
Concentration per Run 2	0.0516 ppm	0.4811 ppm	0.2015 ppm	0.2515 ppm	0.9742 ppm	10.6387 ppm	0.0012 ppm
Concentration per Run 3	0.0515 ppm	0.4795 ppm	0.2008 ppm	0.2497 ppm	0.9720 ppm	10.6427 ppm	-0.0008 ppm
Concentration RSD	0.6 %	0.5 %	0.5 %	0.4 %	0.9 %	1.4 %	162.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	15.1702 ppm	0.4698 ppm	0.8624 ppm	27.5048 ppm	0.4837 ppm	0.5178 ppm	0.4632 ppm
Concentration per Run 1	15.1760 ppm	0.4771 ppm	0.8403 ppm	28.6283 ppm	0.4864 ppm	0.5199 ppm	0.4588 ppm
Concentration per Run 2	15.1760 ppm	0.4683 ppm	0.8629 ppm	27.2644 ppm	0.4829 ppm	0.5176 ppm	0.4636 ppm
Concentration per Run 3	15.1587 ppm	0.4641 ppm	0.8841 ppm	26.6216 ppm	0.4818 ppm	0.5161 ppm	0.4672 ppm
Concentration RSD	0.1 %	1.4 %	2.5 %	3.7 %	0.5 %	0.4 %	0.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.1171 ppm	8.5614 ppm	0.9425 ppm	0.9500 ppm	1.0042 ppm	0.1172 ppm	0.4927 ppm
Concentration per Run 1	0.1165 ppm	8.6066 ppm	0.9467 ppm	0.9648 ppm	1.0054 ppm	0.1180 ppm	0.4931 ppm
Concentration per Run 2	0.1176 ppm	8.5488 ppm	0.9414 ppm	0.9445 ppm	1.0053 ppm	0.1172 ppm	0.4923 ppm
Concentration per Run 3	0.1173 ppm	8.5290 ppm	0.9392 ppm	0.9407 ppm	1.0018 ppm	0.1165 ppm	0.4928 ppm
Concentration RSD	0.5 %	0.5 %	0.4 %	1.4 %	0.2 %	0.6 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4952 ppm	102.1595 %	97.4134 %	97.3193 %	99.0360 %	99.4483 %	99.0593 %
Concentration per Run 1	0.4984 ppm	100.6527 %	97.3389 %	97.3437 %	95.1234 %	98.9265 %	98.7749 %
Concentration per Run 2	0.4949 ppm	102.3448 %	97.6498 %	97.2942 %	99.5535 %	99.4353 %	99.1620 %
Concentration per Run 3	0.4923 ppm	103.4811 %	97.2513 %	97.3200 %	102.4311 %	99.9832 %	99.2408 %
Concentration RSD	0.6 %	1.4 %	0.2 %	0.0 %	3.7 %	0.5 %	0.3 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: WG1975268-10D5 WG1975268
Analysis started at: 9/25/2024 1:32:31 PM
Comments <Comment>
Rack: 1
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0068 ppm	0.0037 ppm	0.0067 ppm	0.0057 ppm	0.0000 ppm	2.2419 ppm
Concentration per Run 1	0.0000 ppm	0.0019 ppm	0.0049 ppm	0.0062 ppm	0.0059 ppm	0.0000 ppm	2.2770 ppm
Concentration per Run 2	0.0002 ppm	0.0027 ppm	0.0030 ppm	0.0069 ppm	0.0057 ppm	0.0000 ppm	2.2226 ppm
Concentration per Run 3	-0.0005 ppm	0.0159 ppm	0.0030 ppm	0.0070 ppm	0.0056 ppm	0.0000 ppm	2.2260 ppm
Concentration RSD	293.0 %	114.6 %	30.1 %	6.6 %	2.8 %	203.6 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0007 ppm	-0.0002 ppm	0.0166 ppm	0.2232 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0009 ppm	-0.0004 ppm	0.0182 ppm	0.2335 ppm	0.0026 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm	0.0146 ppm	0.2362 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	0.0170 ppm	0.1998 ppm	0.0010 ppm
Concentration RSD	907.9 %	203.0 %	37.2 %	193.0 %	10.9 %	9.1 %	71.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	1.0919 ppm	0.0005 ppm	0.0084 ppm	3.3921 ppm	0.0004 ppm	-0.0003 ppm	0.0079 ppm
Concentration per Run 1	1.0966 ppm	0.0004 ppm	0.0096 ppm	3.4613 ppm	0.0003 ppm	0.0001 ppm	0.0099 ppm
Concentration per Run 2	1.0910 ppm	0.0007 ppm	0.0086 ppm	3.3790 ppm	0.0004 ppm	-0.0008 ppm	0.0070 ppm
Concentration per Run 3	1.0882 ppm	0.0003 ppm	0.0070 ppm	3.3360 ppm	0.0005 ppm	-0.0003 ppm	0.0070 ppm
Concentration RSD	0.4 %	40.3 %	15.2 %	1.9 %	32.7 %	148.0 %	21.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0012 ppm	1.5700 ppm	0.0036 ppm	0.0124 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0011 ppm	1.5687 ppm	0.0038 ppm	0.0128 ppm	0.0010 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 2	-0.0004 ppm	1.5743 ppm	0.0041 ppm	0.0123 ppm	0.0015 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 3	-0.0022 ppm	1.5670 ppm	0.0029 ppm	0.0123 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm
Concentration RSD	72.6 %	0.2 %	17.3 %	2.2 %	36.0 %	80.9 %	111.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0006 ppm	103.5720 %	100.2659 %	99.9888 %	103.7414 %	102.5332 %	102.0881 %
Concentration per Run 1	0.0006 ppm	102.5201 %	100.4990 %	99.9618 %	101.7581 %	102.5451 %	102.0396 %
Concentration per Run 2	0.0006 ppm	104.1560 %	100.5042 %	99.8016 %	104.1712 %	102.1402 %	102.3087 %
Concentration per Run 3	0.0005 ppm	104.0400 %	99.7946 %	100.2031 %	105.2951 %	102.9143 %	101.9159 %
Concentration RSD	16.3 %	0.9 %	0.4 %	0.2 %	1.7 %	0.4 %	0.2 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: CCV
Analysis started at: 9/25/2024 1:38:46 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5155 ppm	0.4764 ppm	0.4947 ppm	0.4963 ppm	0.4725 ppm	0.4805 ppm	0.4791 ppm
Concentration per Run 1	0.5155 ppm	0.4625 ppm	0.4950 ppm	0.4964 ppm	0.4603 ppm	0.4681 ppm	0.4683 ppm
Concentration per Run 2	0.5160 ppm	0.4790 ppm	0.4941 ppm	0.4956 ppm	0.4760 ppm	0.4846 ppm	0.4846 ppm
Concentration per Run 3	0.5149 ppm	0.4875 ppm	0.4949 ppm	0.4969 ppm	0.4811 ppm	0.4888 ppm	0.4845 ppm
Recovery Percentage 1	103.092 %	95.271 %	98.940 %	99.262 %	94.490 %	96.099 %	95.823 %
Concentration RSD	0.1 %	2.7 %	0.1 %	0.1 %	2.3 %	2.3 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4984 ppm	0.5066 ppm	0.5066 ppm	0.4936 ppm	0.4851 ppm	4.9887 ppm	0.4768 ppm
Concentration per Run 1	0.4986 ppm	0.5068 ppm	0.5068 ppm	0.4926 ppm	0.4697 ppm	4.8672 ppm	0.4650 ppm
Concentration per Run 2	0.4979 ppm	0.5061 ppm	0.5069 ppm	0.4943 ppm	0.4878 ppm	5.0359 ppm	0.4812 ppm
Concentration per Run 3	0.4987 ppm	0.5069 ppm	0.5060 ppm	0.4940 ppm	0.4978 ppm	5.0629 ppm	0.4841 ppm
Recovery Percentage 1	99.678 %	101.318 %	101.316 %	98.722 %	97.016 %	99.774 %	95.355 %
Concentration RSD	0.1 %	0.1 %	0.1 %	0.2 %	2.9 %	2.1 %	2.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.5066 ppm	0.4753 ppm	0.4942 ppm	10.2281 ppm	0.5039 ppm	0.5027 ppm	0.5026 ppm
Concentration per Run 1	0.5054 ppm	0.4624 ppm	0.4892 ppm	10.0843 ppm	0.5041 ppm	0.5034 ppm	0.5026 ppm
Concentration per Run 2	0.5108 ppm	0.4785 ppm	0.4940 ppm	10.3241 ppm	0.5028 ppm	0.5021 ppm	0.5027 ppm
Concentration per Run 3	0.5036 ppm	0.4851 ppm	0.4995 ppm	10.2760 ppm	0.5047 ppm	0.5028 ppm	0.5026 ppm
Recovery Percentage 1	101.316 %	95.069 %	98.842 %	102.281 %	100.774 %	100.550 %	100.527 %
Concentration RSD	0.7 %	2.5 %	1.0 %	1.2 %	0.2 %	0.1 %	0.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.4982 ppm	5.4671 ppm	0.4681 ppm	0.4534 ppm	0.5042 ppm	0.5074 ppm	0.4934 ppm
Concentration per Run 1	0.4970 ppm	5.4678 ppm	0.4689 ppm	0.4413 ppm	0.5042 ppm	0.5050 ppm	0.4938 ppm
Concentration per Run 2	0.5010 ppm	5.4622 ppm	0.4682 ppm	0.4567 ppm	0.5057 ppm	0.5074 ppm	0.4942 ppm
Concentration per Run 3	0.4966 ppm	5.4711 ppm	0.4672 ppm	0.4620 ppm	0.5028 ppm	0.5097 ppm	0.4923 ppm
Recovery Percentage 1	99.638 %	104.134 %	93.620 %	90.670 %	100.844 %	101.472 %	98.687 %
Concentration RSD	0.5 %	0.1 %	0.2 %	2.4 %	0.3 %	0.5 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.5052 ppm	102.4006 %	97.2292 %	97.0304 %	106.1389 %	100.6554 %	100.5449 %
Concentration per Run 1	0.5056 ppm	104.3971 %	97.7454 %	97.0345 %	106.9518 %	100.5600 %	100.9698 %
Concentration per Run 2	0.5045 ppm	101.8556 %	96.6171 %	97.0716 %	105.4290 %	100.7557 %	99.8774 %
Concentration per Run 3	0.5054 ppm	100.9492 %	97.3250 %	96.9850 %	106.0358 %	100.6505 %	100.7874 %
Recovery Percentage 1	101.032 %						
Concentration RSD	0.1 %	1.7 %	0.6 %	0.0 %	0.7 %	0.1 %	0.6 %

LabBook: WG1976104_09252024T5.imexp

Sample: CCB
Analysis started at: 9/25/2024 1:44:50 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0005 ppm	0.0021 ppm	0.0023 ppm	0.0003 ppm	0.0002 ppm	0.0069 ppm
Concentration per Run 1	0.0000 ppm	0.0058 ppm	0.0011 ppm	0.0023 ppm	0.0002 ppm	0.0002 ppm	0.0100 ppm
Concentration per Run 2	-0.0005 ppm	0.0020 ppm	0.0044 ppm	0.0024 ppm	0.0004 ppm	0.0002 ppm	0.0064 ppm
Concentration per Run 3	-0.0008 ppm	-0.0063 ppm	0.0009 ppm	0.0021 ppm	0.0004 ppm	0.0002 ppm	0.0044 ppm
Recovery Percentage 1	-6.158 %	0.501 %	42.646 %	7.572 %	3.177 %	3.535 %	6.925 %
Concentration RSD	93.0 %	1,240.7 %	90.3 %	7.0 %	22.5 %	10.9 %	40.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0074 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0117 ppm	0.0023 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0315 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0003 ppm	0.0023 ppm	-0.0210 ppm	0.0045 ppm
Recovery Percentage 1	0.191 %	0.693 %	3.204 %	0.780 %	1.848 %	0.296 %	26.054 %
Concentration RSD	438.4 %	43.7 %	64.3 %	253.5 %	136.8 %	359.2 %	66.8 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	-0.0017 ppm	0.0004 ppm	0.0034 ppm	-0.0032 ppm	0.0001 ppm	-0.0004 ppm	0.0018 ppm
Concentration per Run 1	-0.0005 ppm	0.0004 ppm	0.0038 ppm	-0.0016 ppm	0.0002 ppm	-0.0001 ppm	0.0017 ppm
Concentration per Run 2	-0.0017 ppm	0.0005 ppm	0.0035 ppm	0.0021 ppm	0.0001 ppm	-0.0003 ppm	0.0013 ppm
Concentration per Run 3	-0.0030 ppm	0.0005 ppm	0.0030 ppm	-0.0099 ppm	-0.0001 ppm	-0.0007 ppm	0.0025 ppm
Recovery Percentage 1	-1.748 %	4.381 %	6.864 %	-0.158 %	0.277 %	-3.872 %	3.639 %
Concentration RSD	71.1 %	11.8 %	11.4 %	194.1 %	162.1 %	87.0 %	35.0 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0009 ppm	0.0007 ppm	0.0011 ppm	0.0003 ppm	0.0003 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 1	-0.0008 ppm	0.0005 ppm	0.0005 ppm	0.0005 ppm	0.0006 ppm	-0.0014 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0016 ppm	0.0010 ppm	0.0003 ppm	0.0002 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 3	-0.0018 ppm	0.0001 ppm	0.0017 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0002 ppm
Recovery Percentage 1	-8.616 %	0.147 %	2.149 %	3.044 %	3.414 %	-4.216 %	4.036 %
Concentration RSD	107.1 %	105.6 %	53.0 %	59.9 %	65.6 %	62.6 %	42.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	96.2119 %	97.1640 %	96.9441 %	96.9839 %	98.4754 %	97.7919 %
Concentration per Run 1	-0.0001 ppm	97.4336 %	96.6303 %	97.0217 %	97.6419 %	98.6307 %	97.1554 %
Concentration per Run 2	-0.0001 ppm	94.3534 %	97.4194 %	96.8012 %	95.3853 %	98.2561 %	97.8599 %
Concentration per Run 3	-0.0001 ppm	96.8487 %	97.4423 %	97.0095 %	97.9246 %	98.5396 %	98.3605 %
Recovery Percentage 1	-1.703 %						
Concentration RSD	30.6 %	1.7 %	0.5 %	0.1 %	1.4 %	0.2 %	0.6 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: L2453720-07 WG1975268
Analysis started at: 9/25/2024 1:55:06 PM
Comments <Comment>
Rack: 1
Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0315 ppm	-0.0004 ppm	0.0162 ppm	0.0141 ppm	0.0000 ppm	18.7606 ppm
Concentration per Run 1	-0.0003 ppm	0.0431 ppm	0.0010 ppm	0.0164 ppm	0.0146 ppm	0.0000 ppm	19.2055 ppm
Concentration per Run 2	-0.0003 ppm	0.0268 ppm	0.0001 ppm	0.0162 ppm	0.0140 ppm	0.0000 ppm	18.4651 ppm
Concentration per Run 3	-0.0002 ppm	0.0247 ppm	-0.0021 ppm	0.0160 ppm	0.0138 ppm	0.0000 ppm	18.6111 ppm
Concentration RSD	34.1 %	31.8 %	449.3 %	1.2 %	3.1 %	596.1 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0016 ppm	0.0415 ppm	0.7150 ppm	-0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0014 ppm	0.0410 ppm	0.7246 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0006 ppm	0.0018 ppm	0.0419 ppm	0.7171 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0017 ppm	0.0415 ppm	0.7032 ppm	-0.0002 ppm
Concentration RSD	93.3 %	138.0 %	12.4 %	13.9 %	1.1 %	1.5 %	137.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	3.9899 ppm	0.0034 ppm	0.0009 ppm	3.1409 ppm	0.0002 ppm	-0.0007 ppm	-0.0009 ppm
Concentration per Run 1	3.9875 ppm	0.0036 ppm	0.0012 ppm	3.2842 ppm	0.0000 ppm	-0.0013 ppm	-0.0003 ppm
Concentration per Run 2	3.9994 ppm	0.0033 ppm	0.0005 ppm	3.1139 ppm	0.0004 ppm	0.0002 ppm	-0.0022 ppm
Concentration per Run 3	3.9828 ppm	0.0033 ppm	0.0009 ppm	3.0248 ppm	0.0002 ppm	-0.0011 ppm	-0.0001 ppm
Concentration RSD	0.2 %	5.9 %	37.9 %	4.2 %	84.0 %	108.8 %	133.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0000 ppm	3.9005 ppm	-0.0004 ppm	0.0548 ppm	0.0020 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.0009 ppm	3.9306 ppm	-0.0006 ppm	0.0563 ppm	0.0018 ppm	0.0010 ppm	0.0002 ppm
Concentration per Run 2	-0.0022 ppm	3.8988 ppm	0.0000 ppm	0.0541 ppm	0.0022 ppm	-0.0013 ppm	0.0002 ppm
Concentration per Run 3	0.0014 ppm	3.8721 ppm	-0.0007 ppm	0.0541 ppm	0.0021 ppm	0.0004 ppm	0.0007 ppm
Concentration RSD	6,304.8 %	0.8 %	86.6 %	2.3 %	10.0 %	5,590.5 %	81.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0022 ppm	105.8388 %	101.6029 %	101.1121 %	97.3628 %	100.1975 %	99.3876 %
Concentration per Run 1	0.0022 ppm	103.3459 %	101.7876 %	101.3137 %	92.8878 %	99.5994 %	99.4779 %
Concentration per Run 2	0.0022 ppm	107.6097 %	101.3862 %	100.8714 %	98.5195 %	100.0366 %	99.0834 %
Concentration per Run 3	0.0021 ppm	106.5608 %	101.6350 %	101.1512 %	100.6810 %	100.9565 %	99.6014 %
Concentration RSD	2.1 %	2.1 %	0.2 %	0.2 %	4.1 %	0.7 %	0.3 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: L2453720-08 WG1975268
Analysis started at: 9/25/2024 2:01:19 PM
Comments <Comment>
Rack: 1
Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0253 ppm	0.0015 ppm	0.0140 ppm	0.0545 ppm	0.0000 ppm	7.4991 ppm
Concentration per Run 1	-0.0007 ppm	0.0339 ppm	-0.0005 ppm	0.0142 ppm	0.0562 ppm	0.0000 ppm	7.7007 ppm
Concentration per Run 2	-0.0004 ppm	0.0144 ppm	0.0036 ppm	0.0143 ppm	0.0536 ppm	-0.0001 ppm	7.3876 ppm
Concentration per Run 3	-0.0002 ppm	0.0277 ppm	0.0014 ppm	0.0137 ppm	0.0538 ppm	0.0000 ppm	7.4090 ppm
Concentration RSD	65.0 %	39.4 %	136.8 %	2.2 %	2.6 %	111.0 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0009 ppm	0.0015 ppm	0.0450 ppm	1.1647 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0008 ppm	0.0015 ppm	0.0464 ppm	1.2097 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0016 ppm	0.0441 ppm	1.1159 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0014 ppm	0.0015 ppm	0.0445 ppm	1.1685 ppm	0.0000 ppm
Concentration RSD	46.8 %	7.5 %	49.5 %	4.5 %	2.7 %	4.0 %	138.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.4947 ppm	0.0259 ppm	0.0004 ppm	51.1075 ppm	0.0001 ppm	-0.0006 ppm	-0.0008 ppm
Concentration per Run 1	2.5037 ppm	0.0266 ppm	0.0004 ppm	53.2781 ppm	0.0001 ppm	-0.0009 ppm	-0.0004 ppm
Concentration per Run 2	2.4912 ppm	0.0256 ppm	0.0005 ppm	50.5935 ppm	0.0002 ppm	-0.0003 ppm	-0.0008 ppm
Concentration per Run 3	2.4891 ppm	0.0254 ppm	0.0003 ppm	49.4509 ppm	-0.0001 ppm	-0.0008 ppm	-0.0012 ppm
Concentration RSD	0.3 %	2.4 %	27.5 %	3.8 %	164.8 %	48.9 %	48.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	5.2652 ppm	-0.0002 ppm	0.0359 ppm	0.0012 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 1	-0.0018 ppm	5.2862 ppm	-0.0003 ppm	0.0369 ppm	0.0011 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	5.2730 ppm	0.0003 ppm	0.0353 ppm	0.0016 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 3	0.0026 ppm	5.2363 ppm	-0.0004 ppm	0.0354 ppm	0.0009 ppm	0.0006 ppm	0.0004 ppm
Concentration RSD	1,139.9 %	0.5 %	220.6 %	2.4 %	32.5 %	159.5 %	61.9 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0016 ppm	103.7010 %	99.4720 %	99.5296 %	96.4842 %	99.2077 %	98.3920 %
Concentration per Run 1	0.0017 ppm	101.3311 %	99.2529 %	99.4303 %	93.0526 %	98.6130 %	97.6736 %
Concentration per Run 2	0.0016 ppm	104.6244 %	99.6491 %	99.4667 %	96.7391 %	99.1938 %	98.6446 %
Concentration per Run 3	0.0015 ppm	105.1475 %	99.5139 %	99.6918 %	99.6608 %	99.8164 %	98.8579 %
Concentration RSD	6.0 %	2.0 %	0.2 %	0.1 %	3.4 %	0.6 %	0.6 %

ICP DataTrace 5

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LabBook: WG1976104_09252024T5.imexp

Sample: L2453720-09 WG1975268
Analysis started at: 9/25/2024 2:07:32 PM
Comments <Comment>
Rack: 1
Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0357 ppm	0.0009 ppm	0.0140 ppm	0.0336 ppm	0.0000 ppm	12.2272 ppm
Concentration per Run 1	0.0003 ppm	0.0409 ppm	0.0001 ppm	0.0141 ppm	0.0340 ppm	0.0000 ppm	12.4028 ppm
Concentration per Run 2	-0.0002 ppm	0.0302 ppm	0.0011 ppm	0.0142 ppm	0.0333 ppm	0.0000 ppm	12.0928 ppm
Concentration per Run 3	0.0004 ppm	0.0360 ppm	0.0016 ppm	0.0138 ppm	0.0334 ppm	0.0000 ppm	12.1860 ppm
Concentration RSD	208.7 %	15.1 %	83.9 %	1.5 %	1.2 %	238.6 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0045 ppm	0.0010 ppm	0.0486 ppm	0.9743 ppm	0.0020 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0046 ppm	0.0007 ppm	0.0471 ppm	0.9532 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0044 ppm	0.0011 ppm	0.0486 ppm	0.9786 ppm	0.0026 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0045 ppm	0.0010 ppm	0.0500 ppm	0.9911 ppm	0.0027 ppm
Concentration RSD	77.1 %	35.9 %	2.4 %	23.5 %	3.0 %	2.0 %	58.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	5.6164 ppm	0.0008 ppm	0.0002 ppm	15.2027 ppm	0.0039 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	5.6346 ppm	0.0006 ppm	0.0002 ppm	15.8638 ppm	0.0037 ppm	0.0004 ppm	-0.0006 ppm
Concentration per Run 2	5.6088 ppm	0.0008 ppm	0.0002 ppm	15.0513 ppm	0.0038 ppm	0.0005 ppm	-0.0004 ppm
Concentration per Run 3	5.6059 ppm	0.0011 ppm	0.0002 ppm	14.6931 ppm	0.0044 ppm	-0.0003 ppm	0.0000 ppm
Concentration RSD	0.3 %	32.4 %	18.5 %	3.9 %	9.4 %	247.8 %	91.2 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0017 ppm	10.1080 ppm	-0.0003 ppm	0.0712 ppm	0.0020 ppm	0.0003 ppm	0.0010 ppm
Concentration per Run 1	0.0039 ppm	10.1714 ppm	0.0000 ppm	0.0721 ppm	0.0020 ppm	0.0004 ppm	0.0008 ppm
Concentration per Run 2	0.0021 ppm	10.0972 ppm	-0.0003 ppm	0.0705 ppm	0.0018 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 3	-0.0009 ppm	10.0555 ppm	-0.0006 ppm	0.0709 ppm	0.0022 ppm	-0.0002 ppm	0.0013 ppm
Concentration RSD	144.9 %	0.6 %	95.7 %	1.2 %	8.9 %	161.2 %	26.6 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0100 ppm	105.6620 %	98.8684 %	99.1441 %	96.3219 %	99.0931 %	97.1392 %
Concentration per Run 1	0.0100 ppm	104.7149 %	99.0473 %	99.3352 %	92.7169 %	98.5503 %	96.9224 %
Concentration per Run 2	0.0100 ppm	106.7228 %	98.9894 %	99.1450 %	97.0302 %	99.1643 %	97.3791 %
Concentration per Run 3	0.0100 ppm	105.5484 %	98.5686 %	98.9521 %	99.2185 %	99.5647 %	97.1160 %
Concentration RSD	0.2 %	1.0 %	0.3 %	0.2 %	3.4 %	0.5 %	0.2 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: L2453501-01 WG1974842
Analysis started at: 9/25/2024 2:13:44 PM
Comments <Comment>
Rack: 1
Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0005 ppm	0.6117 ppm	0.0040 ppm	0.1439 ppm	0.0486 ppm	-0.0001 ppm	72.5776 ppm
Concentration per Run 1	0.0000 ppm	0.6046 ppm	0.0038 ppm	0.1440 ppm	0.0487 ppm	0.0000 ppm	72.5513 ppm
Concentration per Run 2	-0.0004 ppm	0.6116 ppm	0.0042 ppm	0.1442 ppm	0.0481 ppm	-0.0002 ppm	72.0211 ppm
Concentration per Run 3	-0.0010 ppm	0.6188 ppm	0.0039 ppm	0.1435 ppm	0.0491 ppm	-0.0001 ppm	73.1604 ppm
Concentration RSD	115.1 %	1.2 %	5.1 %	0.3 %	1.0 %	65.7 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0020 ppm	0.1161 ppm	0.2062 ppm	3.4745 ppm	0.0016 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0020 ppm	0.1160 ppm	0.2055 ppm	3.4618 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0018 ppm	0.1167 ppm	0.2061 ppm	3.4651 ppm	0.0025 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0024 ppm	0.1155 ppm	0.2070 ppm	3.4966 ppm	0.0022 ppm
Concentration RSD	19.3 %	24.7 %	15.1 %	0.5 %	0.4 %	0.6 %	83.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	21.2441 ppm	0.0170 ppm	0.0038 ppm	70.4288 ppm	0.0071 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 1	21.2654 ppm	0.0167 ppm	0.0037 ppm	72.5694 ppm	0.0072 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 2	21.2993 ppm	0.0169 ppm	0.0041 ppm	69.7504 ppm	0.0073 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 3	21.1676 ppm	0.0174 ppm	0.0035 ppm	68.9665 ppm	0.0069 ppm	0.0005 ppm	-0.0026 ppm
Concentration RSD	0.3 %	2.1 %	8.0 %	2.7 %	3.2 %	71.4 %	1,221.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	1.3573 ppm	-0.0001 ppm	0.3380 ppm	0.0015 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	0.0006 ppm	1.3618 ppm	-0.0001 ppm	0.3386 ppm	0.0020 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 2	0.0003 ppm	1.3581 ppm	-0.0002 ppm	0.3355 ppm	0.0012 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0002 ppm	1.3520 ppm	-0.0002 ppm	0.3398 ppm	0.0013 ppm	0.0004 ppm	0.0003 ppm
Concentration RSD	61.6 %	0.4 %	28.5 %	0.7 %	28.8 %	232.7 %	74.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0688 ppm	104.8719 %	96.0013 %	95.7310 %	96.8156 %	94.0851 %	94.6534 %
Concentration per Run 1	0.0692 ppm	104.6329 %	96.1000 %	95.8694 %	93.8955 %	93.8750 %	94.5497 %
Concentration per Run 2	0.0688 ppm	105.6828 %	95.6746 %	95.7758 %	97.6183 %	93.9227 %	94.3791 %
Concentration per Run 3	0.0685 ppm	104.3001 %	96.2293 %	95.5477 %	98.9329 %	94.4575 %	95.0314 %
Concentration RSD	0.5 %	0.7 %	0.3 %	0.2 %	2.7 %	0.3 %	0.4 %

ICP DataTrace 5

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LabBook: WG1976104_09252024T5.imexp

Sample: L2453640-01 WG1974842
Analysis started at: 9/25/2024 2:19:55 PM
Comments <Comment>
Rack: 1
Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0198 ppm	0.0029 ppm	0.0197 ppm	0.0312 ppm	0.0000 ppm	15.9364 ppm
Concentration per Run 1	0.0002 ppm	0.0294 ppm	0.0039 ppm	0.0200 ppm	0.0316 ppm	0.0000 ppm	16.1850 ppm
Concentration per Run 2	0.0006 ppm	0.0168 ppm	0.0021 ppm	0.0194 ppm	0.0308 ppm	-0.0001 ppm	15.8248 ppm
Concentration per Run 3	0.0000 ppm	0.0133 ppm	0.0026 ppm	0.0198 ppm	0.0311 ppm	0.0000 ppm	15.7996 ppm
Concentration RSD	120.4 %	42.6 %	31.4 %	1.6 %	1.3 %	236.1 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0001 ppm	0.0003 ppm	0.0010 ppm	0.3421 ppm	0.6874 ppm	7.3726 ppm	0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0010 ppm	0.3442 ppm	0.6933 ppm	7.4420 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0017 ppm	0.3407 ppm	0.6828 ppm	7.3299 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0003 ppm	0.3416 ppm	0.6861 ppm	7.3458 ppm	0.0012 ppm
Concentration RSD	9.9 %	19.2 %	71.9 %	0.5 %	0.8 %	0.8 %	159.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	4.1104 ppm	0.0114 ppm	0.0022 ppm	171.7414 ppm	0.0187 ppm	0.0077 ppm	0.0007 ppm
Concentration per Run 1	4.1319 ppm	0.0112 ppm	0.0021 ppm	177.7178 ppm	0.0188 ppm	0.0084 ppm	0.0001 ppm
Concentration per Run 2	4.1014 ppm	0.0114 ppm	0.0019 ppm	170.5145 ppm	0.0187 ppm	0.0073 ppm	0.0011 ppm
Concentration per Run 3	4.0979 ppm	0.0116 ppm	0.0026 ppm	166.9919 ppm	0.0185 ppm	0.0073 ppm	0.0010 ppm
Concentration RSD	0.5 %	1.7 %	16.2 %	3.2 %	0.8 %	8.4 %	74.8 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0019 ppm	2.4879 ppm	0.0026 ppm	0.0879 ppm	0.0002 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 1	0.0019 ppm	2.4924 ppm	0.0025 ppm	0.0892 ppm	0.0003 ppm	-0.0015 ppm	0.0001 ppm
Concentration per Run 2	0.0021 ppm	2.4938 ppm	0.0023 ppm	0.0872 ppm	-0.0002 ppm	-0.0021 ppm	0.0003 ppm
Concentration per Run 3	0.0018 ppm	2.4773 ppm	0.0030 ppm	0.0873 ppm	0.0005 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	9.4 %	0.4 %	14.1 %	1.3 %	151.7 %	39.5 %	151.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.2575 ppm	104.6096 %	95.1349 %	94.7620 %	95.9070 %	93.3093 %	94.3165 %
Concentration per Run 1	0.2582 ppm	104.1166 %	95.2713 %	94.8794 %	93.3647 %	93.2392 %	94.0599 %
Concentration per Run 2	0.2577 ppm	104.9934 %	94.9987 %	94.7639 %	96.3442 %	93.3043 %	94.2730 %
Concentration per Run 3	0.2567 ppm	104.7188 %	95.1347 %	94.6425 %	98.0121 %	93.3844 %	94.6165 %
Concentration RSD	0.3 %	0.4 %	0.1 %	0.1 %	2.5 %	0.1 %	0.3 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: L2453644-01 WG1974842
Analysis started at: 9/25/2024 2:26:07 PM
Comments <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.1815 ppm	0.0043 ppm	0.0361 ppm	0.0105 ppm	0.0000 ppm	5.0182 ppm
Concentration per Run 1	-0.0001 ppm	0.1858 ppm	0.0053 ppm	0.0357 ppm	0.0108 ppm	0.0000 ppm	5.1471 ppm
Concentration per Run 2	0.0000 ppm	0.1874 ppm	0.0029 ppm	0.0361 ppm	0.0105 ppm	-0.0001 ppm	4.9836 ppm
Concentration per Run 3	-0.0002 ppm	0.1712 ppm	0.0048 ppm	0.0364 ppm	0.0101 ppm	0.0000 ppm	4.9238 ppm
Concentration RSD	100.6 %	4.9 %	28.3 %	1.0 %	3.0 %	80.2 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0011 ppm	0.0194 ppm	0.0699 ppm	1.8544 ppm	0.0028 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0014 ppm	0.0197 ppm	0.0711 ppm	1.9211 ppm	0.0047 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0192 ppm	0.0693 ppm	1.8026 ppm	0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0194 ppm	0.0693 ppm	1.8394 ppm	0.0022 ppm
Concentration RSD	36.1 %	17.8 %	26.5 %	1.4 %	1.5 %	3.3 %	59.6 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.8842 ppm	0.0077 ppm	0.0003 ppm	180.8845 ppm	0.0017 ppm	-0.0001 ppm	0.0022 ppm
Concentration per Run 1	0.8880 ppm	0.0079 ppm	0.0003 ppm	189.7396 ppm	0.0018 ppm	-0.0006 ppm	0.0032 ppm
Concentration per Run 2	0.8836 ppm	0.0076 ppm	0.0001 ppm	180.2152 ppm	0.0016 ppm	0.0003 ppm	0.0022 ppm
Concentration per Run 3	0.8811 ppm	0.0075 ppm	0.0007 ppm	172.6986 ppm	0.0016 ppm	0.0001 ppm	0.0012 ppm
Concentration RSD	0.4 %	2.5 %	88.6 %	4.7 %	7.1 %	861.8 %	46.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0011 ppm	2.0813 ppm	0.0015 ppm	0.0358 ppm	0.0012 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0010 ppm	2.0875 ppm	0.0017 ppm	0.0369 ppm	0.0013 ppm	-0.0019 ppm	0.0001 ppm
Concentration per Run 2	-0.0027 ppm	2.0772 ppm	0.0016 ppm	0.0354 ppm	0.0008 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	-0.0017 ppm	2.0792 ppm	0.0013 ppm	0.0351 ppm	0.0014 ppm	0.0009 ppm	0.0001 ppm
Concentration RSD	164.5 %	0.3 %	11.2 %	2.7 %	25.6 %	682.5 %	143.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0656 ppm	102.0932 %	95.6581 %	96.3650 %	94.8565 %	94.0783 %	94.4681 %
Concentration per Run 1	0.0660 ppm	99.2775 %	95.8074 %	96.2611 %	90.3116 %	93.3749 %	94.2910 %
Concentration per Run 2	0.0655 ppm	102.9779 %	95.7623 %	96.3525 %	95.5212 %	94.3692 %	94.6945 %
Concentration per Run 3	0.0654 ppm	104.0243 %	95.4045 %	96.4814 %	98.7366 %	94.4909 %	94.4187 %
Concentration RSD	0.5 %	2.4 %	0.2 %	0.1 %	4.5 %	0.7 %	0.2 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: L2453656-01 WG1974842
Analysis started at: 9/25/2024 2:32:20 PM
Comments <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0446 ppm	0.0106 ppm	0.0011 ppm	0.0000 ppm	0.3856 ppm
Concentration per Run 1	-0.0004 ppm	0.0063 ppm	0.0534 ppm	0.0105 ppm	0.0011 ppm	0.0000 ppm	0.3891 ppm
Concentration per Run 2	0.0003 ppm	0.0005 ppm	0.0436 ppm	0.0104 ppm	0.0010 ppm	0.0000 ppm	0.3869 ppm
Concentration per Run 3	-0.0003 ppm	-0.0062 ppm	0.0368 ppm	0.0109 ppm	0.0011 ppm	0.0000 ppm	0.3807 ppm
Concentration RSD	312.2 %	3,347.9 %	18.7 %	2.7 %	4.5 %	172.3 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0204 ppm	0.0330 ppm	47.0070 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0017 ppm	0.0199 ppm	0.0337 ppm	47.7375 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0204 ppm	0.0342 ppm	46.5589 ppm	0.0037 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0008 ppm	0.0208 ppm	0.0312 ppm	46.7245 ppm	-0.0013 ppm
Concentration RSD	130.2 %	294.7 %	45.6 %	2.3 %	4.9 %	1.4 %	265.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.1393 ppm	0.0009 ppm	0.0083 ppm	218.9875 ppm	0.0008 ppm	-0.0002 ppm	0.0021 ppm
Concentration per Run 1	0.1384 ppm	0.0008 ppm	0.0083 ppm	229.8288 ppm	0.0011 ppm	0.0003 ppm	0.0025 ppm
Concentration per Run 2	0.1349 ppm	0.0007 ppm	0.0083 ppm	215.2806 ppm	0.0010 ppm	-0.0004 ppm	0.0011 ppm
Concentration per Run 3	0.1445 ppm	0.0013 ppm	0.0082 ppm	211.8531 ppm	0.0003 ppm	-0.0006 ppm	0.0028 ppm
Concentration RSD	3.5 %	33.1 %	0.9 %	4.4 %	55.0 %	209.4 %	44.5 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0014 ppm	0.2857 ppm	-0.0004 ppm	0.0027 ppm	0.0007 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.0011 ppm	0.2862 ppm	-0.0004 ppm	0.0029 ppm	0.0011 ppm	0.0011 ppm	0.0000 ppm
Concentration per Run 2	0.0006 ppm	0.2864 ppm	-0.0011 ppm	0.0027 ppm	0.0006 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0025 ppm	0.2846 ppm	0.0001 ppm	0.0025 ppm	0.0004 ppm	0.0010 ppm	-0.0004 ppm
Concentration RSD	69.5 %	0.3 %	136.0 %	6.3 %	51.1 %	98.1 %	293.0 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0236 ppm	102.1625 %	93.8202 %	94.1747 %	94.9180 %	92.3150 %	93.2473 %
Concentration per Run 1	0.0237 ppm	100.7701 %	94.5761 %	93.9525 %	90.6436 %	91.7676 %	93.6731 %
Concentration per Run 2	0.0236 ppm	103.3018 %	93.3661 %	94.3846 %	96.3416 %	92.4494 %	93.0624 %
Concentration per Run 3	0.0236 ppm	102.4154 %	93.5184 %	94.1869 %	97.7689 %	92.7279 %	93.0064 %
Concentration RSD	0.3 %	1.3 %	0.7 %	0.2 %	4.0 %	0.5 %	0.4 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: L2453657-01 WG1974842
Analysis started at: 9/25/2024 2:38:41 PM
Comments <Comment>
Rack: 1
Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0882 ppm	0.0273 ppm	0.7576 ppm	0.0077 ppm	0.0000 ppm	8.5902 ppm
Concentration per Run 1	0.0001 ppm	0.0922 ppm	0.0278 ppm	0.7557 ppm	0.0082 ppm	-0.0001 ppm	8.8468 ppm
Concentration per Run 2	0.0004 ppm	0.0913 ppm	0.0279 ppm	0.7579 ppm	0.0075 ppm	0.0000 ppm	8.5270 ppm
Concentration per Run 3	0.0005 ppm	0.0812 ppm	0.0262 ppm	0.7591 ppm	0.0075 ppm	0.0001 ppm	8.3969 ppm
Concentration RSD	57.6 %	6.9 %	3.6 %	0.2 %	5.3 %	264.7 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0003 ppm	0.0005 ppm	0.0070 ppm	0.4642 ppm	0.7026 ppm	98.4707 ppm	0.0597 ppm
Concentration per Run 1	-0.0003 ppm	0.0006 ppm	0.0067 ppm	0.4638 ppm	0.7238 ppm	101.6414 ppm	0.0629 ppm
Concentration per Run 2	-0.0004 ppm	0.0005 ppm	0.0073 ppm	0.4639 ppm	0.6953 ppm	97.5802 ppm	0.0611 ppm
Concentration per Run 3	-0.0003 ppm	0.0005 ppm	0.0069 ppm	0.4647 ppm	0.6885 ppm	96.1906 ppm	0.0551 ppm
Concentration RSD	15.5 %	11.7 %	3.9 %	0.1 %	2.7 %	2.9 %	6.9 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	6.2569 ppm	0.0115 ppm	0.0845 ppm	**1,165.3163 [SIC 500]**	0.0343 ppm	-0.0020 ppm	0.0136 ppm
Concentration per Run 1	6.2546 ppm	0.0118 ppm	0.0841 ppm	1,195.7576 ppm	0.0340 ppm	-0.0021 ppm	0.0133 ppm
Concentration per Run 2	6.2566 ppm	0.0115 ppm	0.0843 ppm	1,158.6048 ppm	0.0345 ppm	-0.0021 ppm	0.0148 ppm
Concentration per Run 3	6.2593 ppm	0.0113 ppm	0.0850 ppm	1,141.5864 ppm	0.0344 ppm	-0.0017 ppm	0.0126 ppm
Concentration RSD	0.0 %	1.8 %	0.5 %	2.4 %	0.7 %	12.5 %	8.1 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0033 ppm	9.7510 ppm	-0.0004 ppm	0.1987 ppm	0.0063 ppm	-0.0027 ppm	0.0004 ppm
Concentration per Run 1	0.0030 ppm	9.7654 ppm	-0.0002 ppm	0.2053 ppm	0.0060 ppm	-0.0028 ppm	0.0003 ppm
Concentration per Run 2	0.0034 ppm	9.8166 ppm	-0.0002 ppm	0.1970 ppm	0.0062 ppm	-0.0032 ppm	0.0003 ppm
Concentration per Run 3	0.0034 ppm	9.6712 ppm	-0.0007 ppm	0.1937 ppm	0.0066 ppm	-0.0020 ppm	0.0004 ppm
Concentration RSD	7.3 %	0.8 %	88.9 %	3.0 %	5.3 %	23.4 %	18.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0051 ppm	90.0865 %	70.6599 %	75.1030 %	97.3967 %	70.4248 %	73.3425 %
Concentration per Run 1	0.0052 ppm	88.0450 %	70.8392 %	75.3062 %	97.4414 %	70.5436 %	73.4782 %
Concentration per Run 2	0.0049 ppm	90.0543 %	70.5387 %	74.8835 %	97.1736 %	70.2603 %	73.3174 %
Concentration per Run 3	0.0051 ppm	92.1601 %	70.6017 %	75.1194 %	97.5750 %	70.4704 %	73.2318 %
Concentration RSD	2.9 %	2.3 %	0.2 %	0.3 %	0.2 %	0.2 %	0.2 %

ICP DataTrace 5

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LabBook: WG1976104_09252024T5.imexp

Sample: L2453659-01 WG1974842
Analysis started at: 9/25/2024 2:45:10 PM
Comments <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0067 ppm	0.0022 ppm	0.0065 ppm	0.0069 ppm	0.0000 ppm	3.2539 ppm
Concentration per Run 1	-0.0005 ppm	0.0098 ppm	0.0023 ppm	0.0067 ppm	0.0069 ppm	-0.0001 ppm	3.3070 ppm
Concentration per Run 2	0.0003 ppm	0.0121 ppm	0.0018 ppm	0.0063 ppm	0.0067 ppm	0.0000 ppm	3.2127 ppm
Concentration per Run 3	0.0001 ppm	-0.0017 ppm	0.0026 ppm	0.0065 ppm	0.0071 ppm	0.0000 ppm	3.2421 ppm
Concentration RSD	1,111.1 %	109.8 %	17.8 %	3.2 %	2.3 %	75.6 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0380 ppm	0.0322 ppm	0.8520 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0008 ppm	0.0383 ppm	0.0326 ppm	0.9181 ppm	0.0030 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0379 ppm	0.0324 ppm	0.8258 ppm	-0.0015 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0377 ppm	0.0316 ppm	0.8120 ppm	0.0008 ppm
Concentration RSD	156.3 %	271.1 %	110.7 %	0.8 %	1.6 %	6.8 %	295.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.7247 ppm	0.0037 ppm	0.0004 ppm	35.1991 ppm	0.0010 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run 1	0.7270 ppm	0.0042 ppm	0.0007 ppm	38.0053 ppm	0.0012 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 2	0.7238 ppm	0.0034 ppm	0.0001 ppm	34.7254 ppm	0.0010 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 3	0.7233 ppm	0.0035 ppm	0.0004 ppm	32.8666 ppm	0.0008 ppm	-0.0005 ppm	0.0002 ppm
Concentration RSD	0.3 %	11.8 %	69.1 %	7.4 %	19.8 %	360.7 %	87.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	-0.0007 ppm	1.5499 ppm	-0.0002 ppm	0.0272 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 1	-0.0010 ppm	1.5632 ppm	-0.0005 ppm	0.0277 ppm	0.0003 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 2	-0.0015 ppm	1.5464 ppm	0.0005 ppm	0.0268 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 3	0.0003 ppm	1.5400 ppm	-0.0006 ppm	0.0271 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm
Concentration RSD	135.2 %	0.8 %	318.2 %	1.5 %	486.2 %	122.1 %	33.3 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.0047 ppm	109.5818 %	101.0466 %	100.6149 %	100.3925 %	100.6397 %	99.4630 %
Concentration per Run 1	0.0048 ppm	107.3388 %	100.6189 %	100.2649 %	96.0433 %	99.8094 %	98.5747 %
Concentration per Run 2	0.0046 ppm	110.7931 %	101.4464 %	100.8197 %	101.0809 %	100.7484 %	99.7890 %
Concentration per Run 3	0.0046 ppm	110.6136 %	101.0745 %	100.7602 %	104.0535 %	101.3614 %	100.0255 %
Concentration RSD	2.1 %	1.8 %	0.4 %	0.3 %	4.0 %	0.8 %	0.8 %

ICP DataTrace 5

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LabBook: WG1976104_09252024T5.imexp

Sample: L2453663-01 WG1974842
Analysis started at: 9/25/2024 2:51:25 PM
Comments <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0622 ppm	0.0201 ppm	0.0448 ppm	0.0205 ppm	0.0000 ppm	16.3857 ppm
Concentration per Run 1	-0.0008 ppm	0.0671 ppm	0.0226 ppm	0.0451 ppm	0.0215 ppm	0.0000 ppm	17.3682 ppm
Concentration per Run 2	0.0000 ppm	0.0535 ppm	0.0192 ppm	0.0446 ppm	0.0199 ppm	0.0000 ppm	15.7816 ppm
Concentration per Run 3	0.0000 ppm	0.0661 ppm	0.0186 ppm	0.0447 ppm	0.0201 ppm	0.0000 ppm	16.0071 ppm
Concentration RSD	186.1 %	12.1 %	10.6 %	0.6 %	4.3 %	190.2 %	5.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	-0.0001 ppm	0.0007 ppm	0.0049 ppm	0.0194 ppm	0.6772 ppm	18.8894 ppm	1.2658 ppm
Concentration per Run 1	-0.0001 ppm	0.0009 ppm	0.0051 ppm	0.0199 ppm	0.7078 ppm	19.9512 ppm	1.3393 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0052 ppm	0.0193 ppm	0.6589 ppm	18.1945 ppm	1.2204 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0043 ppm	0.0191 ppm	0.6648 ppm	18.5225 ppm	1.2376 ppm
Concentration RSD	77.2 %	19.3 %	9.9 %	2.2 %	3.9 %	4.9 %	5.1 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	2.9366 ppm	0.0094 ppm	0.0011 ppm	844.1320 [SIC 500]	0.0050 ppm	0.0041 ppm	0.0104 ppm
Concentration per Run 1	2.9480 ppm	0.0100 ppm	0.0011 ppm	920.5081 ppm	0.0052 ppm	0.0038 ppm	0.0104 ppm
Concentration per Run 2	2.9384 ppm	0.0094 ppm	0.0012 ppm	810.3473 ppm	0.0046 ppm	0.0039 ppm	0.0105 ppm
Concentration per Run 3	2.9234 ppm	0.0089 ppm	0.0010 ppm	801.5407 ppm	0.0052 ppm	0.0045 ppm	0.0104 ppm
Concentration RSD	0.4 %	5.9 %	6.7 %	7.9 %	7.2 %	9.8 %	0.7 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0259 ppm	4.6831 ppm	0.0061 ppm	0.0932 ppm	0.0006 ppm	-0.0231 ppm	0.0006 ppm
Concentration per Run 1	0.0295 ppm	4.7215 ppm	0.0061 ppm	0.0983 ppm	0.0003 ppm	-0.0235 ppm	0.0005 ppm
Concentration per Run 2	0.0243 ppm	4.6779 ppm	0.0060 ppm	0.0899 ppm	0.0009 ppm	-0.0237 ppm	0.0009 ppm
Concentration per Run 3	0.0240 ppm	4.6497 ppm	0.0062 ppm	0.0914 ppm	0.0007 ppm	-0.0220 ppm	0.0006 ppm
Concentration RSD	11.9 %	0.8 %	1.7 %	4.8 %	44.3 %	4.1 %	35.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.1224 ppm	103.6249 %	92.8795 %	92.9488 %	96.2527 %	85.6643 %	92.5534 %
Concentration per Run 1	0.1232 ppm	97.9062 %	92.6916 %	93.1809 %	89.1534 %	85.0332 %	92.0973 %
Concentration per Run 2	0.1223 ppm	106.8299 %	92.8574 %	92.9894 %	98.8440 %	85.7912 %	92.5489 %
Concentration per Run 3	0.1218 ppm	106.1385 %	93.0894 %	92.6761 %	100.7608 %	86.1685 %	93.0139 %
Concentration RSD	0.6 %	4.8 %	0.2 %	0.3 %	6.5 %	0.7 %	0.5 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: CCV
Analysis started at: 9/25/2024 3:05:09 PM
Comments <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5157 ppm	0.4795 ppm	0.4902 ppm	0.4965 ppm	0.4775 ppm	0.4888 ppm	0.4856 ppm
Concentration per Run 1	0.5159 ppm	0.4991 ppm	0.4928 ppm	0.4965 ppm	0.4885 ppm	0.4997 ppm	0.5001 ppm
Concentration per Run 2	0.5151 ppm	0.4661 ppm	0.4876 ppm	0.4964 ppm	0.4741 ppm	0.4847 ppm	0.4815 ppm
Concentration per Run 3	0.5162 ppm	0.4733 ppm	0.4901 ppm	0.4966 ppm	0.4701 ppm	0.4819 ppm	0.4753 ppm
Recovery Percentage 1	103.143 %	95.897 %	98.032 %	99.298 %	95.506 %	97.757 %	97.126 %
Concentration RSD	0.1 %	3.6 %	0.5 %	0.0 %	2.0 %	2.0 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.4892 ppm	0.5008 ppm	0.4975 ppm	0.4918 ppm	0.4844 ppm	5.0417 ppm	0.4833 ppm
Concentration per Run 1	0.4891 ppm	0.5009 ppm	0.4978 ppm	0.4924 ppm	0.4912 ppm	5.1400 ppm	0.4928 ppm
Concentration per Run 2	0.4888 ppm	0.5003 ppm	0.4992 ppm	0.4918 ppm	0.4814 ppm	4.9773 ppm	0.4800 ppm
Concentration per Run 3	0.4898 ppm	0.5013 ppm	0.4955 ppm	0.4913 ppm	0.4806 ppm	5.0078 ppm	0.4771 ppm
Recovery Percentage 1	97.847 %	100.169 %	99.494 %	98.367 %	96.877 %	100.834 %	96.663 %
Concentration RSD	0.1 %	0.1 %	0.4 %	0.1 %	1.2 %	1.7 %	1.7 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.4993 ppm	0.4775 ppm	0.4850 ppm	10.4491 ppm	0.5016 ppm	0.5006 ppm	0.5010 ppm
Concentration per Run 1	0.4994 ppm	0.4883 ppm	0.4807 ppm	10.6433 ppm	0.5018 ppm	0.5017 ppm	0.5027 ppm
Concentration per Run 2	0.5016 ppm	0.4738 ppm	0.4843 ppm	10.4150 ppm	0.5011 ppm	0.4999 ppm	0.5003 ppm
Concentration per Run 3	0.4970 ppm	0.4703 ppm	0.4900 ppm	10.2890 ppm	0.5021 ppm	0.5002 ppm	0.4999 ppm
Recovery Percentage 1	99.868 %	95.494 %	97.008 %	104.491 %	100.328 %	100.124 %	100.192 %
Concentration RSD	0.5 %	2.0 %	1.0 %	1.7 %	0.1 %	0.2 %	0.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.5036 ppm	5.5184 ppm	0.4659 ppm	0.4561 ppm	0.5008 ppm	0.4740 ppm	0.4877 ppm
Concentration per Run 1	0.5047 ppm	5.5306 ppm	0.4657 ppm	0.4663 ppm	0.5008 ppm	0.4719 ppm	0.4880 ppm
Concentration per Run 2	0.5042 ppm	5.5095 ppm	0.4653 ppm	0.4523 ppm	0.5003 ppm	0.4738 ppm	0.4882 ppm
Concentration per Run 3	0.5019 ppm	5.5150 ppm	0.4666 ppm	0.4499 ppm	0.5012 ppm	0.4764 ppm	0.4868 ppm
Recovery Percentage 1	100.722 %	105.112 %	93.172 %	91.227 %	100.153 %	94.808 %	97.531 %
Concentration RSD	0.3 %	0.2 %	0.1 %	1.9 %	0.1 %	0.5 %	0.1 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.4966 ppm	108.0102 %	103.6133 %	102.5772 %	111.8755 %	105.2638 %	106.0580 %
Concentration per Run 1	0.4965 ppm	105.1771 %	103.1899 %	103.1849 %	109.4549 %	105.6078 %	105.5723 %
Concentration per Run 2	0.4965 ppm	108.5269 %	103.2887 %	102.3986 %	111.9529 %	105.2927 %	105.8589 %
Concentration per Run 3	0.4966 ppm	110.3267 %	104.3613 %	102.1483 %	114.2188 %	104.8909 %	106.7429 %
Recovery Percentage 1	99.310 %						
Concentration RSD	0.0 %	2.4 %	0.6 %	0.5 %	2.1 %	0.3 %	0.6 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: CCB
Analysis started at: 9/25/2024 3:11:13 PM
Comments <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 1	0.0002 ppm	0.0014 ppm	0.0000 ppm	0.0013 ppm	0.0002 ppm	0.0001 ppm	-0.0041 ppm
Concentration per Run 2	0.0001 ppm	-0.0016 ppm	0.0005 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 3	-0.0004 ppm	0.0000 ppm	-0.0021 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Recovery Percentage 1	-0.219 %	-0.063 %	-10.167 %	3.047 %	0.941 %	1.567 %	1.289 %
Concentration RSD	1,979.3 %	2,369.7 %	278.7 %	36.9 %	112.3 %	63.2 %	359.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0037 ppm	-0.0392 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0037 ppm	-0.0684 ppm	-0.0024 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0034 ppm	-0.0325 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	0.0040 ppm	-0.0168 ppm	0.0010 ppm
Recovery Percentage 1	0.061 %	0.081 %	4.015 %	-0.285 %	7.393 %	-1.570 %	-6.189 %
Concentration RSD	762.8 %	428.3 %	61.5 %	996.5 %	8.0 %	67.4 %	279.2 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	0.0013 ppm	0.0000 ppm	0.0020 ppm	0.2073 ppm	0.0005 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 1	0.0030 ppm	0.0002 ppm	0.0022 ppm	0.2144 ppm	0.0003 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 2	-0.0004 ppm	-0.0001 ppm	0.0021 ppm	0.2022 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 3	0.0011 ppm	0.0000 ppm	0.0018 ppm	0.2052 ppm	0.0009 ppm	-0.0002 ppm	0.0035 ppm
Recovery Percentage 1	1.250 %	0.352 %	4.094 %	10.364 %	1.935 %	-0.493 %	3.184 %
Concentration RSD	133.9 %	375.6 %	9.8 %	3.1 %	81.2 %	659.6 %	102.9 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0026 ppm	0.0003 ppm
Concentration per Run 1	-0.0014 ppm	0.0008 ppm	0.0003 ppm	0.0002 ppm	-0.0001 ppm	0.0025 ppm	0.0003 ppm
Concentration per Run 2	0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0024 ppm	0.0005 ppm
Concentration per Run 3	0.0014 ppm	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0028 ppm	0.0001 ppm
Recovery Percentage 1	1.762 %	0.098 %	-0.119 %	1.448 %	2.473 %	12.946 %	3.087 %
Concentration RSD	821.7 %	95.2 %	600.6 %	98.1 %	138.6 %	6.8 %	67.4 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	-0.0001 ppm	110.5994 %	104.9860 %	104.3487 %	110.0506 %	105.2054 %	104.8675 %
Concentration per Run 1	-0.0001 ppm	109.8898 %	104.6523 %	104.6685 %	108.8100 %	105.3790 %	104.6517 %
Concentration per Run 2	-0.0001 ppm	111.2114 %	105.2680 %	104.3818 %	110.4486 %	105.2323 %	105.0879 %
Concentration per Run 3	-0.0001 ppm	110.6970 %	105.0377 %	103.9958 %	110.8931 %	105.0048 %	104.8630 %
Recovery Percentage 1	-2.549 %						
Concentration RSD	14.2 %	0.6 %	0.3 %	0.3 %	1.0 %	0.2 %	0.2 %

ICP DataTrace 5

9/25/2024 3:24:45 PM

LabBook: WG1976104_09252024T5.imexp

Sample: L2453525-01D2 WG1975354
Analysis started at: 9/25/2024 3:18:01 PM
Comments <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0045 ppm	167.4374 ppm	0.0532 ppm	0.0144 ppm	0.5705 ppm	0.0088 ppm	19.5600 ppm
Concentration per Run 1	0.0044 ppm	172.2072 ppm	0.0542 ppm	0.0142 ppm	0.5868 ppm	0.0091 ppm	20.1431 ppm
Concentration per Run 2	0.0042 ppm	167.4544 ppm	0.0546 ppm	0.0146 ppm	0.5698 ppm	0.0086 ppm	19.5324 ppm
Concentration per Run 3	0.0048 ppm	162.6508 ppm	0.0509 ppm	0.0143 ppm	0.5549 ppm	0.0086 ppm	19.0044 ppm
Concentration RSD	6.0 %	2.9 %	3.9 %	1.4 %	2.8 %	3.0 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0013 ppm	0.1113 ppm	0.3827 ppm	0.2301 ppm	235.7013 [SIC 500]	52.6097 ppm	0.3413 ppm
Concentration per Run 1	0.0015 ppm	0.1141 ppm	0.3835 ppm	0.2295 ppm	239.6289 ppm	54.1918 ppm	0.3509 ppm
Concentration per Run 2	0.0012 ppm	0.1120 ppm	0.3831 ppm	0.2306 ppm	236.9857 ppm	52.5326 ppm	0.3425 ppm
Concentration per Run 3	0.0010 ppm	0.1078 ppm	0.3814 ppm	0.2300 ppm	230.4893 ppm	51.1047 ppm	0.3305 ppm
Concentration RSD	19.7 %	2.9 %	0.3 %	0.2 %	2.0 %	2.9 %	3.0 %

	Mg 279.079 {121} (Axial)	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)
Concentration average	74.6922 ppm	3.7766 ppm	0.0019 ppm	3.3513 ppm	0.3068 ppm	0.0659 ppm	0.0084 ppm
Concentration per Run 1	74.8407 ppm	3.8853 ppm	0.0015 ppm	3.4161 ppm	0.3127 ppm	0.0679 ppm	0.0099 ppm
Concentration per Run 2	74.6802 ppm	3.7757 ppm	0.0023 ppm	3.3672 ppm	0.3078 ppm	0.0660 ppm	0.0082 ppm
Concentration per Run 3	74.5556 ppm	3.6688 ppm	0.0020 ppm	3.2706 ppm	0.3000 ppm	0.0639 ppm	0.0072 ppm
Concentration RSD	0.2 %	2.9 %	19.5 %	2.2 %	2.1 %	3.1 %	16.3 %

	Se 196.090 {472} (Axial)	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)
Concentration average	0.0004 ppm	2.6153 ppm	0.0106 ppm	0.2026 ppm	11.7874 ppm	0.0116 ppm	0.4726 ppm
Concentration per Run 1	-0.0010 ppm	2.6990 ppm	0.0116 ppm	0.2083 ppm	11.8015 ppm	0.0108 ppm	0.4731 ppm
Concentration per Run 2	0.0025 ppm	2.6276 ppm	0.0101 ppm	0.2027 ppm	11.6931 ppm	0.0110 ppm	0.4731 ppm
Concentration per Run 3	-0.0004 ppm	2.5192 ppm	0.0101 ppm	0.1967 ppm	11.8675 ppm	0.0129 ppm	0.4715 ppm
Concentration RSD	522.5 %	3.5 %	7.9 %	2.8 %	0.7 %	9.9 %	0.2 %

	Zn 206.200 {463} (Axial)	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)
Concentration average	0.6067 ppm	134.0920 %	126.7014 %	125.3799 %	123.7488 %	105.9907 %	112.9343 %
Concentration per Run 1	0.6202 ppm	130.2764 %	126.6358 %	125.8169 %	121.2014 %	106.0801 %	112.9355 %
Concentration per Run 2	0.6077 ppm	134.4403 %	127.0177 %	125.4285 %	123.5003 %	105.9183 %	113.2159 %
Concentration per Run 3	0.5921 ppm	137.5593 %	126.4507 %	124.8945 %	126.5447 %	105.9738 %	112.6515 %
Concentration RSD	2.3 %	2.7 %	0.2 %	0.4 %	2.2 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: Blank DMC Trace8
Analysis started at: 9/25/2024 5:27:52 AM
Rack 0
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.3 %	-1.1 %	-0.1 %	0.3 %	0.2 %	-0.5 %	3.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-8.3 %	0.7 %	5.6 %	0.0 %	0.0 %	0.5 %	-0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.4 %	-0.1 %	0.4 %	0.2 %	0.4 %	0.3 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	0.0 %	0.4 %	-0.7 %	-0.1 %	-0.3 %	-0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	-0.8 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: ICAL
Analysis started at: 9/25/2024 5:32:05 AM
Rack 0
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0053 ppm	24.9319 ppm	0.9970 ppm	1.0050 ppm	0.9921 ppm	0.9964 ppm	9.9751 ppm
Concentration per Run 2	0.9967 ppm	25.0420 ppm	1.0022 ppm	0.9969 ppm	1.0049 ppm	1.0010 ppm	10.0159 ppm
Concentration per Run 3	0.9980 ppm	25.0261 ppm	1.0008 ppm	0.9981 ppm	1.0030 ppm	1.0026 ppm	10.0089 ppm
Concentration RSD	0.5 %	0.2 %	0.3 %	0.4 %	0.7 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0079 ppm	1.0060 ppm	1.0045 ppm	1.0070 ppm	24.9299 ppm	34.6475 ppm	0.9922 ppm
Concentration per Run 2	0.9963 ppm	0.9965 ppm	0.9970 ppm	0.9957 ppm	25.0213 ppm	35.1683 ppm	1.0027 ppm
Concentration per Run 3	0.9958 ppm	0.9975 ppm	0.9985 ppm	0.9973 ppm	25.0488 ppm	35.1842 ppm	1.0051 ppm
Concentration RSD	0.7 %	0.5 %	0.4 %	0.6 %	0.2 %	0.9 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0566 ppm	0.9950 ppm	1.0002 ppm	24.8889 ppm	1.0023 ppm	0.9970 ppm	1.0065 ppm
Concentration per Run 2	9.9658 ppm	1.0020 ppm	0.9957 ppm	25.0866 ppm	0.9990 ppm	1.0007 ppm	0.9983 ppm
Concentration per Run 3	9.9776 ppm	1.0030 ppm	1.0041 ppm	25.0246 ppm	0.9987 ppm	1.0024 ppm	0.9952 ppm
Concentration RSD	0.5 %	0.4 %	0.4 %	0.4 %	0.2 %	0.3 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9959 ppm	10.0297 ppm	0.9974 ppm	0.9956 ppm	1.0037 ppm	0.9992 ppm	1.0052 ppm
Concentration per Run 2	1.0023 ppm	9.9685 ppm	1.0017 ppm	0.9989 ppm	0.9959 ppm	1.0009 ppm	0.9962 ppm
Concentration per Run 3	1.0019 ppm	10.0018 ppm	1.0009 ppm	1.0055 ppm	1.0004 ppm	0.9998 ppm	0.9986 ppm
Concentration RSD	0.4 %	0.3 %	0.2 %	0.5 %	0.4 %	0.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	95.8516 %	102.6825 %	94.0947 %	90.5007 %	99.8102 %	93.2907 %
Concentration per Run 1	1.0059 ppm	95.2334 %	102.4925 %	94.7693 %	90.2162 %	99.4782 %	93.4446 %
Concentration per Run 2	0.9990 ppm	96.1787 %	103.0625 %	93.4849 %	90.6813 %	100.4464 %	92.7774 %
Concentration per Run 3	0.9950 ppm	96.1427 %	102.4927 %	94.0298 %	90.6046 %	99.5059 %	93.6500 %
Concentration RSD	0.6 %	0.6 %	0.3 %	0.7 %	0.3 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: ICV
Analysis started at: 9/25/2024 5:36:01 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5058 ppm	0.4880 ppm	0.4896 ppm	0.5029 ppm	0.5062 ppm	0.5165 ppm	0.4946 ppm
Concentration per Run 1	0.5112 ppm	0.4831 ppm	0.4900 ppm	0.5057 ppm	0.5065 ppm	0.5191 ppm	0.4967 ppm
Concentration per Run 2	0.5034 ppm	0.4873 ppm	0.4869 ppm	0.4993 ppm	0.5090 ppm	0.5152 ppm	0.4949 ppm
Concentration per Run 3	0.5028 ppm	0.4937 ppm	0.4918 ppm	0.5036 ppm	0.5032 ppm	0.5151 ppm	0.4923 ppm
Recovery Percentage 1	101.159 %	97.601 %	97.913 %	100.571 %	101.247 %	103.293 %	98.928 %
Concentration RSD	0.9 %	1.1 %	0.5 %	0.6 %	0.6 %	0.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5135 ppm	0.5146 ppm	0.5005 ppm	0.4944 ppm	0.5117 ppm	5.2375 ppm	0.4909 ppm
Concentration per Run 1	0.5186 ppm	0.5213 ppm	0.5044 ppm	0.4984 ppm	0.5094 ppm	5.2161 ppm	0.4919 ppm
Concentration per Run 2	0.5105 ppm	0.5109 ppm	0.4982 ppm	0.4932 ppm	0.5161 ppm	5.2444 ppm	0.4934 ppm
Concentration per Run 3	0.5113 ppm	0.5116 ppm	0.4988 ppm	0.4917 ppm	0.5095 ppm	5.2522 ppm	0.4874 ppm
Recovery Percentage 1	102.694 %	102.924 %	100.092 %	98.887 %	102.335 %	104.751 %	98.178 %
Concentration RSD	0.9 %	1.1 %	0.7 %	0.7 %	0.8 %	0.4 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4969 ppm	0.5020 ppm	0.5147 ppm	10.0303 ppm	0.5142 ppm	0.5000 ppm	0.5061 ppm
Concentration per Run 1	0.5032 ppm	0.5007 ppm	0.5157 ppm	10.0632 ppm	0.5164 ppm	0.5004 ppm	0.5106 ppm
Concentration per Run 2	0.4943 ppm	0.5031 ppm	0.5114 ppm	10.0876 ppm	0.5126 ppm	0.5000 ppm	0.5028 ppm
Concentration per Run 3	0.4932 ppm	0.5022 ppm	0.5170 ppm	9.9401 ppm	0.5137 ppm	0.4996 ppm	0.5049 ppm
Recovery Percentage 1	99.379 %	100.400 %	102.943 %	100.303 %	102.843 %	100.005 %	101.217 %
Concentration RSD	1.1 %	0.2 %	0.6 %	0.8 %	0.4 %	0.1 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4929 ppm	5.6022 ppm	0.4912 ppm	0.4873 ppm	0.5110 ppm	0.4997 ppm	0.5022 ppm
Concentration per Run 1	0.4917 ppm	5.6413 ppm	0.4923 ppm	0.4873 ppm	0.5150 ppm	0.4989 ppm	0.5081 ppm
Concentration per Run 2	0.4966 ppm	5.5710 ppm	0.4866 ppm	0.4875 ppm	0.5098 ppm	0.4997 ppm	0.5001 ppm
Concentration per Run 3	0.4904 ppm	5.5942 ppm	0.4947 ppm	0.4870 ppm	0.5083 ppm	0.5005 ppm	0.4985 ppm
Recovery Percentage 1	98.579 %	106.708 %	98.241 %	97.458 %	102.209 %	99.941 %	100.445 %
Concentration RSD	0.7 %	0.6 %	0.8 %	0.0 %	0.7 %	0.2 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5150 ppm	95.7179 %	102.9757 %	96.5862 %	92.5707 %	101.1882 %	94.9410 %
Concentration per Run 1	0.5185 ppm	94.6831 %	104.5192 %	96.4038 %	92.0115 %	102.8473 %	94.7093 %
Concentration per Run 2	0.5135 ppm	96.2556 %	102.0538 %	96.7978 %	93.0953 %	100.0734 %	95.3024 %
Concentration per Run 3	0.5131 ppm	96.2149 %	102.3542 %	96.5569 %	92.6052 %	100.6437 %	94.8114 %
Recovery Percentage 1	103.003 %						
Concentration RSD	0.6 %	0.9 %	1.3 %	0.2 %	0.6 %	1.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: ICB
Analysis started at: 9/25/2024 5:39:56 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0052 ppm	0.0012 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0050 ppm
Concentration per Run 1	0.0000 ppm	-0.0041 ppm	0.0006 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0064 ppm
Concentration per Run 2	0.0000 ppm	-0.0007 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0049 ppm
Concentration per Run 3	0.0000 ppm	-0.0107 ppm	0.0022 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0038 ppm
Recovery Percentage 1	0.226 %	-5.159 %	39.329 %	0.974 %	0.502 %	0.314 %	-5.041 %
Concentration RSD	44.5 %	99.2 %	76.7 %	53.1 %	204.5 %	195.6 %	25.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0015 ppm	0.0052 ppm	-0.0287 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0016 ppm	0.0060 ppm	-0.0421 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0014 ppm	0.0051 ppm	-0.0280 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0014 ppm	0.0045 ppm	-0.0159 ppm	0.0007 ppm
Recovery Percentage 1	-0.841 %	0.738 %	5.669 %	14.915 %	10.459 %	-1.146 %	1.338 %
Concentration RSD	165.9 %	241.1 %	60.1 %	8.1 %	14.1 %	45.7 %	358.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0013 ppm	0.0003 ppm	0.0028 ppm	-0.0174 ppm	0.0005 ppm	-0.0003 ppm	-0.0008 ppm
Concentration per Run 1	-0.0034 ppm	0.0002 ppm	0.0026 ppm	-0.0142 ppm	0.0001 ppm	-0.0004 ppm	-0.0010 ppm
Concentration per Run 2	-0.0004 ppm	0.0004 ppm	0.0028 ppm	-0.0169 ppm	0.0006 ppm	0.0005 ppm	-0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0031 ppm	-0.0212 ppm	0.0007 ppm	-0.0011 ppm	-0.0011 ppm
Recovery Percentage 1	-1.298 %	2.560 %	5.648 %	-0.872 %	1.964 %	-3.303 %	-1.626 %
Concentration RSD	137.7 %	39.4 %	8.6 %	20.3 %	65.2 %	241.3 %	48.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	0.0020 ppm	-0.0009 ppm	0.0000 ppm	-0.0002 ppm	0.0018 ppm	-0.0001 ppm
Concentration per Run 1	0.0008 ppm	0.0003 ppm	-0.0013 ppm	0.0000 ppm	-0.0003 ppm	0.0016 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	0.0025 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0019 ppm	-0.0003 ppm
Concentration per Run 3	0.0017 ppm	0.0031 ppm	-0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm	0.0001 ppm
Recovery Percentage 1	6.463 %	0.394 %	-1.756 %	-0.162 %	-1.634 %	8.783 %	-0.709 %
Concentration RSD	178.2 %	76.9 %	93.0 %	144.7 %	95.5 %	6.8 %	243.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	89.5815 %	99.3485 %	93.1190 %	91.9410 %	100.3285 %	94.7620 %
Concentration per Run 1	0.0005 ppm	87.1756 %	98.9860 %	92.3488 %	90.6752 %	99.7346 %	94.8722 %
Concentration per Run 2	0.0003 ppm	90.1417 %	99.9391 %	93.1739 %	92.5135 %	100.9847 %	94.4233 %
Concentration per Run 3	0.0004 ppm	91.4273 %	99.1203 %	93.8343 %	92.6342 %	100.2660 %	94.9905 %
Recovery Percentage 1	7.365 %						
Concentration RSD	27.0 %	2.4 %	0.5 %	0.8 %	1.2 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: ICV
Analysis started at: 9/25/2024 5:45:06 AM
Rack 0
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5167 ppm	0.4943 ppm	0.4905 ppm	0.5090 ppm	0.5055 ppm	0.5204 ppm	0.5020 ppm
Concentration per Run 1	0.5207 ppm	0.4985 ppm	0.4926 ppm	0.5146 ppm	0.5057 ppm	0.5184 ppm	0.5009 ppm
Concentration per Run 2	0.5169 ppm	0.4921 ppm	0.4909 ppm	0.5054 ppm	0.5061 ppm	0.5192 ppm	0.5041 ppm
Concentration per Run 3	0.5126 ppm	0.4924 ppm	0.4880 ppm	0.5070 ppm	0.5047 ppm	0.5235 ppm	0.5010 ppm
Recovery Percentage 1	103.346 %	98.870 %	98.097 %	101.802 %	101.097 %	104.070 %	100.400 %
Concentration RSD	0.8 %	0.7 %	0.5 %	1.0 %	0.1 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5209 ppm	0.5218 ppm	0.5089 ppm	0.4980 ppm	0.5117 ppm	5.2410 ppm	0.4943 ppm
Concentration per Run 1	0.5263 ppm	0.5285 ppm	0.5137 ppm	0.5050 ppm	0.5134 ppm	5.2289 ppm	0.4935 ppm
Concentration per Run 2	0.5194 ppm	0.5201 ppm	0.5079 ppm	0.4960 ppm	0.5100 ppm	5.2301 ppm	0.4933 ppm
Concentration per Run 3	0.5171 ppm	0.5167 ppm	0.5051 ppm	0.4931 ppm	0.5117 ppm	5.2639 ppm	0.4960 ppm
Recovery Percentage 1	104.184 %	104.351 %	101.778 %	99.607 %	102.343 %	104.819 %	98.862 %
Concentration RSD	0.9 %	1.2 %	0.9 %	1.2 %	0.3 %	0.4 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.5059 ppm	0.5035 ppm	0.5174 ppm	10.1999 ppm	0.5236 ppm	0.5013 ppm	0.5192 ppm
Concentration per Run 1	0.5107 ppm	0.5028 ppm	0.5186 ppm	10.1534 ppm	0.5283 ppm	0.5048 ppm	0.5233 ppm
Concentration per Run 2	0.5047 ppm	0.5042 ppm	0.5155 ppm	10.2378 ppm	0.5232 ppm	0.5011 ppm	0.5160 ppm
Concentration per Run 3	0.5022 ppm	0.5034 ppm	0.5181 ppm	10.2086 ppm	0.5191 ppm	0.4979 ppm	0.5184 ppm
Recovery Percentage 1	101.176 %	100.700 %	103.478 %	101.999 %	104.714 %	100.252 %	103.845 %
Concentration RSD	0.9 %	0.1 %	0.3 %	0.4 %	0.9 %	0.7 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4954 ppm	5.6707 ppm	0.5042 ppm	0.4919 ppm	0.5183 ppm	0.4967 ppm	0.5095 ppm
Concentration per Run 1	0.5000 ppm	5.7145 ppm	0.5085 ppm	0.4925 ppm	0.5227 ppm	0.4975 ppm	0.5146 ppm
Concentration per Run 2	0.4946 ppm	5.6605 ppm	0.5025 ppm	0.4914 ppm	0.5169 ppm	0.4985 ppm	0.5099 ppm
Concentration per Run 3	0.4916 ppm	5.6371 ppm	0.5014 ppm	0.4919 ppm	0.5154 ppm	0.4942 ppm	0.5039 ppm
Recovery Percentage 1	99.078 %	108.013 %	100.831 %	98.381 %	103.668 %	99.339 %	101.894 %
Concentration RSD	0.9 %	0.7 %	0.8 %	0.1 %	0.7 %	0.5 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5229 ppm	93.9380 %	102.8404 %	95.7368 %	90.7445 %	100.9575 %	94.1372 %
Concentration per Run 1	0.5276 ppm	93.1124 %	104.2232 %	95.5955 %	90.8094 %	102.4041 %	94.3964 %
Concentration per Run 2	0.5217 ppm	94.1601 %	101.5242 %	95.5382 %	90.6700 %	99.7153 %	93.9660 %
Concentration per Run 3	0.5193 ppm	94.5415 %	102.7739 %	96.0766 %	90.7539 %	100.7530 %	94.0491 %
Recovery Percentage 1	104.571 %						
Concentration RSD	0.8 %	0.8 %	1.3 %	0.3 %	0.1 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: ICB
Analysis started at: 9/25/2024 5:49:06 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0048 ppm
Concentration per Run 1	0.0000 ppm	-0.0036 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0036 ppm
Concentration per Run 2	-0.0002 ppm	0.0011 ppm	-0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0050 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0020 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	-0.0059 ppm
Recovery Percentage 1	-1.675 %	-0.773 %	17.987 %	0.024 %	0.389 %	0.879 %	-4.843 %
Concentration RSD	67.6 %	325.2 %	228.4 %	8,120.4 %	276.6 %	38.2 %	23.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0018 ppm	0.0040 ppm	-0.0308 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0008 ppm	0.0018 ppm	0.0035 ppm	-0.0447 ppm	0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0018 ppm	0.0054 ppm	-0.0325 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0006 ppm	0.0017 ppm	0.0031 ppm	-0.0152 ppm	0.0001 ppm
Recovery Percentage 1	-1.130 %	2.036 %	5.742 %	17.872 %	8.056 %	-1.231 %	3.667 %
Concentration RSD	55.6 %	44.3 %	50.2 %	2.1 %	30.9 %	48.2 %	73.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0004 ppm	0.0001 ppm	0.0023 ppm	-0.0154 ppm	0.0004 ppm	-0.0002 ppm	-0.0034 ppm
Concentration per Run 1	-0.0016 ppm	0.0001 ppm	0.0024 ppm	-0.0151 ppm	0.0001 ppm	0.0000 ppm	-0.0044 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0021 ppm	-0.0153 ppm	0.0006 ppm	-0.0008 ppm	-0.0028 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	0.0026 ppm	-0.0158 ppm	0.0005 ppm	0.0003 ppm	-0.0031 ppm
Recovery Percentage 1	-0.380 %	0.562 %	4.645 %	-0.768 %	1.594 %	-1.870 %	-6.865 %
Concentration RSD	296.1 %	179.2 %	10.9 %	2.3 %	70.7 %	313.6 %	23.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	0.0031 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 1	-0.0023 ppm	0.0035 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	0.0030 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0021 ppm	0.0002 ppm
Concentration per Run 3	0.0027 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0000 ppm
Recovery Percentage 1	2.131 %	0.625 %	-0.734 %	0.060 %	0.902 %	4.226 %	0.811 %
Concentration RSD	1,166.3 %	10.8 %	134.6 %	353.3 %	225.8 %	155.5 %	180.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0003 ppm	89.5833 %	99.6698 %	94.0196 %	92.0236 %	100.6844 %	95.7355 %
Concentration per Run 1	0.0004 ppm	87.8820 %	98.4519 %	93.9302 %	91.5356 %	99.8261 %	96.0243 %
Concentration per Run 2	0.0003 ppm	89.7182 %	100.0122 %	94.0487 %	91.9702 %	100.7140 %	95.7240 %
Concentration per Run 3	0.0003 ppm	91.1497 %	100.5454 %	94.0800 %	92.5648 %	101.5131 %	95.4582 %
Recovery Percentage 1	6.511 %						
Concentration RSD	15.6 %	1.8 %	1.1 %	0.1 %	0.6 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: LLOQ
Analysis started at: 9/25/2024 5:53:02 AM
Rack 0
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0050 ppm	**0.1330 ppm**	0.0052 ppm	0.0330 ppm	0.0104 ppm	0.0052 ppm	**0.1323 ppm**
Concentration per Run 1	0.0051 ppm	0.1396 ppm	0.0057 ppm	0.0342 ppm	0.0104 ppm	0.0052 ppm	0.1328 ppm
Concentration per Run 2	0.0047 ppm	0.1247 ppm	0.0057 ppm	0.0326 ppm	0.0104 ppm	0.0051 ppm	0.1322 ppm
Concentration per Run 3	0.0052 ppm	0.1348 ppm	0.0044 ppm	0.0323 ppm	0.0104 ppm	0.0052 ppm	0.1320 ppm
Recovery Percentage 1	99.964 %	133.048 %	104.992 %	110.059 %	104.161 %	103.383 %	132.316 %
Concentration RSD	5.5 %	**5.7 %**	14.4 %	3.1 %	0.3 %	1.2 %	**0.3 %**

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0042 ppm	0.0213 ppm	0.0099 ppm	0.0120 ppm	**0.0752 ppm**	2.6891 ppm	0.0099 ppm
Concentration per Run 1	0.0043 ppm	0.0220 ppm	0.0099 ppm	0.0123 ppm	0.0745 ppm	2.7239 ppm	0.0113 ppm
Concentration per Run 2	0.0042 ppm	0.0212 ppm	0.0098 ppm	0.0120 ppm	0.0763 ppm	2.6594 ppm	0.0089 ppm
Concentration per Run 3	0.0042 ppm	0.0208 ppm	0.0099 ppm	0.0116 ppm	0.0748 ppm	2.6841 ppm	0.0096 ppm
Recovery Percentage 1	106.233 %	106.626 %	98.603 %	119.744 %	150.417 %	107.566 %	99.264 %
Concentration RSD	1.8 %	3.0 %	0.5 %	3.0 %	**1.3 %**	1.2 %	12.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	**0.1345 ppm**	0.0107 ppm	0.0547 ppm	2.0948 ppm	0.0211 ppm	0.0103 ppm	0.0522 ppm
Concentration per Run 1	0.1348 ppm	0.0106 ppm	0.0553 ppm	2.0951 ppm	0.0214 ppm	0.0105 ppm	0.0531 ppm
Concentration per Run 2	0.1345 ppm	0.0107 ppm	0.0541 ppm	2.0898 ppm	0.0211 ppm	0.0106 ppm	0.0523 ppm
Concentration per Run 3	0.1342 ppm	0.0109 ppm	0.0548 ppm	2.0997 ppm	0.0208 ppm	0.0097 ppm	0.0512 ppm
Recovery Percentage 1	134.488 %	107.171 %	109.417 %	104.742 %	84.457 %	102.643 %	104.390 %
Concentration RSD	**0.2 %**	1.2 %	1.1 %	0.2 %	1.6 %	4.8 %	1.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0103 ppm	0.5523 ppm	0.0515 ppm	0.0102 ppm	0.0530 ppm	0.0199 ppm	0.0108 ppm
Concentration per Run 1	0.0092 ppm	0.5608 ppm	0.0522 ppm	0.0102 ppm	0.0536 ppm	0.0201 ppm	0.0108 ppm
Concentration per Run 2	0.0112 ppm	0.5489 ppm	0.0505 ppm	0.0103 ppm	0.0530 ppm	0.0185 ppm	0.0106 ppm
Concentration per Run 3	0.0106 ppm	0.5471 ppm	0.0517 ppm	0.0101 ppm	0.0525 ppm	0.0211 ppm	0.0109 ppm
Recovery Percentage 1	103.325 %	110.453 %	102.947 %	101.729 %	106.082 %	99.618 %	107.603 %
Concentration RSD	10.1 %	1.3 %	1.6 %	0.9 %	1.0 %	6.6 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**0.0066 ppm**	94.1858 %	102.1507 %	96.6520 %	92.5017 %	100.8303 %	95.6728 %
Concentration per Run 1	0.0066 ppm	92.7215 %	102.3283 %	97.1367 %	91.8776 %	100.9213 %	96.1104 %
Concentration per Run 2	0.0063 ppm	95.0615 %	101.9731 %	96.2361 %	93.2078 %	100.4108 %	95.4233 %
Concentration per Run 3	0.0067 ppm	94.7745 %	102.1508 %	96.5834 %	92.4196 %	101.1589 %	95.4849 %
Recovery Percentage 1	131.210 %						
Concentration RSD	**3.4 %**	1.4 %	0.2 %	0.5 %	0.7 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: ICSA
Analysis started at: 9/25/2024 5:56:59 AM
Rack 0
Vial 6
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	500.4255 [SIC 500]	-0.0026 ppm	0.0054 ppm	0.0015 ppm	0.0000 ppm	550.4289 ppm
Concentration per Run 1	0.0006 ppm	502.1534 ppm	-0.0041 ppm	0.0043 ppm	0.0015 ppm	0.0000 ppm	548.9370 ppm
Concentration per Run 2	0.0004 ppm	498.9813 ppm	-0.0019 ppm	0.0068 ppm	0.0015 ppm	0.0000 ppm	549.3936 ppm
Concentration per Run 3	0.0001 ppm	500.1417 ppm	-0.0017 ppm	0.0050 ppm	0.0014 ppm	0.0000 ppm	552.9560 ppm
Recovery Percentage 1	5.102 %	500,425.482 %	-85.186 %	17.856 %	14.666 %	1.032 %	550,428.856 %
Concentration RSD	77.2 %	0.3 %	51.2 %	24.2 %	3.8 %	19.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0001 ppm	-0.0011 ppm	-0.0017 ppm	180.8002 ppm	-0.0426 ppm	-0.0014 ppm
Concentration per Run 1	-0.0003 ppm	-0.0004 ppm	-0.0013 ppm	-0.0017 ppm	181.4650 ppm	-0.0493 ppm	0.0007 ppm
Concentration per Run 2	-0.0003 ppm	-0.0006 ppm	-0.0008 ppm	-0.0014 ppm	180.2098 ppm	-0.0548 ppm	-0.0013 ppm
Concentration per Run 3	-0.0003 ppm	0.0006 ppm	-0.0012 ppm	-0.0021 ppm	180.7257 ppm	-0.0235 ppm	-0.0037 ppm
Recovery Percentage 1	-6.120 %	-0.656 %	-10.936 %	-17.316 %	361,600.344 %	-1.702 %	-14.210 %
Concentration RSD	13.9 %	494.0 %	23.3 %	19.0 %	0.3 %	39.2 %	154.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	480.2544 ppm	0.0017 ppm	-0.0001 ppm	0.0071 ppm	-0.0005 ppm	-0.0179 ppm	-0.0040 ppm
Concentration per Run 1	482.9329 ppm	0.0015 ppm	0.0012 ppm	0.0056 ppm	-0.0007 ppm	-0.0178 ppm	-0.0022 ppm
Concentration per Run 2	477.6470 ppm	0.0017 ppm	-0.0007 ppm	0.0082 ppm	-0.0009 ppm	-0.0198 ppm	-0.0050 ppm
Concentration per Run 3	480.1832 ppm	0.0018 ppm	-0.0007 ppm	0.0076 ppm	0.0001 ppm	-0.0162 ppm	-0.0047 ppm
Recovery Percentage 1	480,254.376 %	16.644 %	-0.100 %	0.356 %	-2.059 %	-178.974 %	-7.971 %
Concentration RSD	0.6 %	9.1 %	2,183.5 %	18.8 %	110.3 %	10.1 %	37.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0038 ppm	0.0000 ppm
Concentration per Run 1	0.0024 ppm	0.0027 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0021 ppm	0.0000 ppm
Concentration per Run 2	-0.0011 ppm	-0.0056 ppm	-0.0002 ppm	-0.0001 ppm	-0.0006 ppm	0.0041 ppm	-0.0001 ppm
Concentration per Run 3	-0.0036 ppm	0.0026 ppm	0.0003 ppm	-0.0001 ppm	-0.0006 ppm	0.0053 ppm	0.0002 ppm
Recovery Percentage 1	-7.573 %	-0.025 %	0.135 %	-0.940 %	-4.031 %	19.132 %	0.227 %
Concentration RSD	400.2 %	3,813.3 %	340.7 %	38.0 %	69.3 %	42.2 %	718.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	86.4342 %	97.3748 %	78.4721 %	81.4478 %	96.6417 %	82.7618 %
Concentration per Run 1	-0.0003 ppm	86.1414 %	97.6508 %	78.2435 %	81.5900 %	96.7215 %	82.3954 %
Concentration per Run 2	-0.0001 ppm	86.7515 %	98.3747 %	78.7316 %	81.6153 %	97.8029 %	83.0602 %
Concentration per Run 3	0.0000 ppm	86.4098 %	96.0989 %	78.4411 %	81.1380 %	95.4008 %	82.8299 %
Recovery Percentage 1	-2.491 %						
Concentration RSD	102.7 %	0.4 %	1.2 %	0.3 %	0.3 %	1.2 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: SIC Multi
Analysis started at: 9/25/2024 6:02:58 AM
Rack 0
Vial 7
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0010 ppm	0.0152 ppm	0.0004 ppm	0.0105 ppm	0.0003 ppm	-0.0012 ppm	-0.0009 ppm
Concentration per Run 1	-0.0009 ppm	0.0120 ppm	0.0019 ppm	0.0107 ppm	0.0003 ppm	-0.0011 ppm	-0.0046 ppm
Concentration per Run 2	-0.0008 ppm	0.0193 ppm	0.0009 ppm	0.0097 ppm	0.0002 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 3	-0.0012 ppm	0.0142 ppm	-0.0015 ppm	0.0112 ppm	0.0004 ppm	-0.0012 ppm	0.0017 ppm
Recovery Percentage 1	-13.600 %	15.156 %	13.859 %	35.115 %	3.143 %	-28.993 %	-0.897 %
Concentration RSD	26.9 %	24.6 %	424.2 %	7.1 %	36.4 %	1.2 %	370.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0032 ppm	20.0644 ppm	-0.0006 ppm	0.0130 ppm	-0.0277 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	-0.0032 ppm	20.3161 ppm	-0.0006 ppm	0.0142 ppm	-0.0431 ppm	-0.0010 ppm
Concentration per Run 2	-0.0001 ppm	-0.0032 ppm	19.9545 ppm	-0.0005 ppm	0.0133 ppm	-0.0165 ppm	0.0008 ppm
Concentration per Run 3	-0.0001 ppm	-0.0031 ppm	19.9226 ppm	-0.0007 ppm	0.0114 ppm	-0.0236 ppm	0.0005 ppm
Recovery Percentage 1	-1.624 %	-15.892 %	200,644.026 %	-6.414 %	25.962 %	-1.109 %	0.815 %
Concentration RSD	19.7 %	2.0 %	1.1 %	15.7 %	10.9 %	49.8 %	1,175.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0020 ppm	20.3811 [SIC 100]	0.0012 ppm	-0.0116 ppm	0.0003 ppm	-0.0036 ppm	0.0013 ppm
Concentration per Run 1	0.0022 ppm	20.4619 ppm	0.0010 ppm	-0.0117 ppm	-0.0004 ppm	-0.0044 ppm	0.0036 ppm
Concentration per Run 2	0.0024 ppm	20.3872 ppm	0.0014 ppm	-0.0107 ppm	0.0008 ppm	-0.0043 ppm	0.0017 ppm
Concentration per Run 3	0.0014 ppm	20.2941 ppm	0.0011 ppm	-0.0124 ppm	0.0005 ppm	-0.0020 ppm	-0.0013 ppm
Recovery Percentage 1	2.006 %	203,810.594 %	2.375 %	-0.578 %	1.259 %	-35.924 %	2.662 %
Concentration RSD	26.0 %	0.4 %	16.2 %	7.3 %	197.0 %	38.1 %	186.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0003 ppm	0.2875 ppm	-0.0030 ppm	0.0000 ppm	20.0592 ppm	-0.0207 ppm	10.1499 [SIC 10]
Concentration per Run 1	-0.0025 ppm	0.2563 ppm	-0.0035 ppm	0.0000 ppm	20.2961 ppm	-0.0241 ppm	10.2753 ppm
Concentration per Run 2	0.0020 ppm	0.2839 ppm	-0.0025 ppm	0.0000 ppm	19.9681 ppm	-0.0193 ppm	10.1001 ppm
Concentration per Run 3	-0.0005 ppm	0.3224 ppm	-0.0031 ppm	0.0000 ppm	19.9134 ppm	-0.0186 ppm	10.0742 ppm
Recovery Percentage 1	-3.173 %	57.507 %	-5.992 %	-0.088 %	200,592.046 %	-103.417 %	101,498.579 %
Concentration RSD	697.2 %	11.5 %	16.7 %	340.9 %	1.0 %	14.6 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	95.6288 %	103.9127 %	77.8576 %	91.4922 %	101.4795 %	94.3461 %
Concentration per Run 1	0.0001 ppm	93.6015 %	103.3175 %	77.6653 %	90.1760 %	101.3642 %	94.3664 %
Concentration per Run 2	0.0002 ppm	96.5509 %	103.7509 %	77.9716 %	92.0946 %	100.9434 %	94.4313 %
Concentration per Run 3	-0.0001 ppm	96.7340 %	104.6695 %	77.9360 %	92.2062 %	102.1309 %	94.2406 %
Recovery Percentage 1	0.795 %						
Concentration RSD	427.9 %	1.8 %	0.7 %	0.2 %	1.2 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: LDR Check
Analysis started at: 9/25/2024 6:08:00 AM
Rack 0
Vial 8
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0026 ppm	-0.0076 ppm	21.6040 ppm	24.9545 [SIC 20]	19.5102 ppm	5.0008 ppm	0.0348 ppm
Concentration per Run 1	0.0027 ppm	-0.0108 ppm	21.6844 ppm	24.8490 ppm	19.5178 ppm	4.9996 ppm	0.0317 ppm
Concentration per Run 2	0.0026 ppm	-0.0086 ppm	21.5775 ppm	24.9224 ppm	19.4558 ppm	4.9901 ppm	0.0341 ppm
Concentration per Run 3	0.0025 ppm	-0.0033 ppm	21.5501 ppm	25.0922 ppm	19.5570 ppm	5.0127 ppm	0.0385 ppm
Recovery Percentage 1			108.020 %	124.773 %	97.551 %		0.000 %
Concentration RSD	3.9 %	50.7 %	0.3 %	0.5 %	0.3 %	0.2 %	9.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	4.8396 ppm	4.9219 ppm	0.0009 ppm	19.6878 ppm	0.0091 ppm	509.8955 ppm	18.5724 ppm
Concentration per Run 1	4.8356 ppm	4.9111 ppm	0.0011 ppm	19.6648 ppm	0.0092 ppm	510.0213 ppm	18.6930 ppm
Concentration per Run 2	4.8290 ppm	4.9162 ppm	0.0007 ppm	19.7055 ppm	0.0083 ppm	508.9596 ppm	18.4120 ppm
Concentration per Run 3	4.8542 ppm	4.9382 ppm	0.0009 ppm	19.6933 ppm	0.0098 ppm	510.7056 ppm	18.6123 ppm
Recovery Percentage 1	96.791 %	98.437 %		98.439 %	0.000 %	101.979 %	92.862 %
Concentration RSD	0.3 %	0.3 %	22.6 %	0.1 %	8.0 %	0.2 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0050 ppm	0.0007 ppm	4.8684 ppm	456.8360 ppm	9.6313 ppm	49.8679 ppm	5.0168 ppm
Concentration per Run 1	-0.0049 ppm	0.0008 ppm	4.8239 ppm	457.3296 ppm	9.5770 ppm	50.0016 ppm	4.9685 ppm
Concentration per Run 2	-0.0043 ppm	0.0006 ppm	4.8419 ppm	457.2172 ppm	9.6153 ppm	49.7919 ppm	5.0305 ppm
Concentration per Run 3	-0.0058 ppm	0.0007 ppm	4.9394 ppm	455.9614 ppm	9.7018 ppm	49.8103 ppm	5.0516 ppm
Recovery Percentage 1		0.000 %	97.368 %	91.367 %	96.313 %	99.736 %	100.337 %
Concentration RSD	15.3 %	15.1 %	1.3 %	0.2 %	0.7 %	0.2 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	5.1465 [SIC 20]	21.5098 [SIC 100]	9.5946 ppm	4.7798 ppm	0.0090 ppm	4.9545 ppm	0.0025 ppm
Concentration per Run 1	5.1675 ppm	21.4170 ppm	9.5479 ppm	4.7804 ppm	0.0092 ppm	4.9718 ppm	0.0025 ppm
Concentration per Run 2	5.1510 ppm	21.4998 ppm	9.5572 ppm	4.7650 ppm	0.0090 ppm	4.9641 ppm	0.0027 ppm
Concentration per Run 3	5.1210 ppm	21.6126 ppm	9.6787 ppm	4.7938 ppm	0.0089 ppm	4.9276 ppm	0.0023 ppm
Recovery Percentage 1	102.930 %	107.549 %	95.946 %	95.595 %	0.000 %	99.090 %	0.000 %
Concentration RSD	0.5 %	0.5 %	0.8 %	0.3 %	1.8 %	0.5 %	7.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	19.0744 ppm	90.6550 %	99.5225 %	86.5266 %	85.2201 %	96.5027 %	85.2131 %
Concentration per Run 1	19.0383 ppm	90.6677 %	99.5575 %	86.1542 %	85.2638 %	96.5621 %	84.8806 %
Concentration per Run 2	18.9647 ppm	90.9220 %	99.4616 %	87.0584 %	85.4089 %	96.4341 %	85.8247 %
Concentration per Run 3	19.2202 ppm	90.3752 %	99.5483 %	86.3671 %	84.9877 %	96.5119 %	84.9342 %
Recovery Percentage 1	95.372 %						
Concentration RSD	0.7 %	0.3 %	0.1 %	0.5 %	0.3 %	0.1 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: 0.005
Analysis started at: 9/25/2024 6:38:54 AM
Rack 1
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0055 ppm	0.0064 ppm	**0.0060 ppm**	0.0063 ppm	0.0054 ppm	0.0053 ppm	0.0050 ppm
Concentration per Run 1	0.0056 ppm	0.0102 ppm	0.0056 ppm	0.0063 ppm	0.0055 ppm	0.0053 ppm	0.0034 ppm
Concentration per Run 2	0.0057 ppm	0.0089 ppm	0.0064 ppm	0.0069 ppm	0.0055 ppm	0.0053 ppm	0.0083 ppm
Concentration per Run 3	0.0052 ppm	0.0002 ppm	0.0062 ppm	0.0056 ppm	0.0053 ppm	0.0052 ppm	0.0032 ppm
Recovery Percentage 1	110.003 %	0.000 %	120.605 %	0.000 %	0.000 %	105.450 %	0.000 %
Concentration RSD	5.0 %	84.8 %	**6.9 %**	10.7 %	1.5 %	0.9 %	58.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0055 ppm	0.0059 ppm	0.0060 ppm	0.0065 ppm	0.0090 ppm	0.0496 ppm	0.0055 ppm
Concentration per Run 1	0.0056 ppm	0.0061 ppm	0.0063 ppm	0.0067 ppm	0.0106 ppm	0.0750 ppm	0.0033 ppm
Concentration per Run 2	0.0056 ppm	0.0059 ppm	0.0059 ppm	0.0062 ppm	0.0098 ppm	0.0226 ppm	0.0066 ppm
Concentration per Run 3	0.0054 ppm	0.0056 ppm	0.0057 ppm	0.0065 ppm	0.0065 ppm	0.0512 ppm	0.0066 ppm
Recovery Percentage 1	110.736 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	2.6 %	4.2 %	5.1 %	3.3 %	24.2 %	53.0 %	33.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0052 ppm	0.0054 ppm	0.0058 ppm	0.1006 ppm	0.0058 ppm	0.0052 ppm	0.0045 ppm
Concentration per Run 1	0.0049 ppm	0.0054 ppm	0.0060 ppm	0.1001 ppm	0.0059 ppm	0.0046 ppm	0.0036 ppm
Concentration per Run 2	0.0049 ppm	0.0052 ppm	0.0054 ppm	0.1001 ppm	0.0066 ppm	0.0053 ppm	0.0049 ppm
Concentration per Run 3	0.0058 ppm	0.0054 ppm	0.0061 ppm	0.1015 ppm	0.0051 ppm	0.0058 ppm	0.0052 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	10.5 %	2.0 %	5.9 %	0.8 %	12.7 %	11.3 %	17.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0054 ppm	0.0651 ppm	0.0047 ppm	0.0052 ppm	0.0054 ppm	0.0052 ppm	0.0056 ppm
Concentration per Run 1	0.0053 ppm	0.0679 ppm	0.0050 ppm	0.0052 ppm	0.0055 ppm	0.0066 ppm	0.0053 ppm
Concentration per Run 2	0.0052 ppm	0.0629 ppm	0.0050 ppm	0.0053 ppm	0.0052 ppm	0.0048 ppm	0.0056 ppm
Concentration per Run 3	0.0056 ppm	0.0646 ppm	0.0042 ppm	0.0052 ppm	0.0054 ppm	0.0041 ppm	0.0058 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	4.6 %	3.9 %	9.1 %	1.1 %	2.8 %	24.8 %	3.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	**0.0062 ppm**	91.7595 %	101.4589 %	95.6333 %	93.9493 %	102.3477 %	96.9466 %
Concentration per Run 1	0.0064 ppm	90.0335 %	100.9902 %	95.3874 %	93.3555 %	102.4391 %	97.0698 %
Concentration per Run 2	0.0062 ppm	91.9463 %	101.6819 %	95.8784 %	94.2560 %	102.7158 %	97.1453 %
Concentration per Run 3	0.0060 ppm	93.2988 %	101.7046 %	95.6342 %	94.2363 %	101.8881 %	96.6246 %
Recovery Percentage 1	123.606 %						
Concentration RSD	**3.9 %**	1.8 %	0.4 %	0.3 %	0.5 %	0.4 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: 0.01
Analysis started at: 9/25/2024 6:42:55 AM
Rack 1
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0113 ppm	0.0046 ppm	0.0106 ppm	**0.0124 ppm**	0.0108 ppm	0.0108 ppm	0.0076 ppm
Concentration per Run 1	0.0118 ppm	0.0008 ppm	0.0105 ppm	0.0118 ppm	0.0108 ppm	0.0108 ppm	0.0078 ppm
Concentration per Run 2	0.0114 ppm	0.0142 ppm	0.0092 ppm	0.0121 ppm	0.0109 ppm	0.0108 ppm	0.0082 ppm
Concentration per Run 3	0.0107 ppm	-0.0012 ppm	0.0120 ppm	0.0132 ppm	0.0107 ppm	0.0107 ppm	0.0068 ppm
Recovery Percentage 1	0.000 %	0.000 %	105.772 %	123.705 %	108.241 %	0.000 %	0.000 %
Concentration RSD	5.1 %	181.8 %	13.3 %	**6.0 %**	1.1 %	0.5 %	9.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0112 ppm	0.0112 ppm	0.0115 ppm	**0.0122 ppm**	0.0149 ppm	0.1051 ppm	0.0108 ppm
Concentration per Run 1	0.0114 ppm	0.0116 ppm	0.0115 ppm	0.0129 ppm	0.0140 ppm	0.1185 ppm	0.0118 ppm
Concentration per Run 2	0.0113 ppm	0.0111 ppm	0.0115 ppm	0.0119 ppm	0.0141 ppm	0.1099 ppm	0.0112 ppm
Concentration per Run 3	0.0110 ppm	0.0110 ppm	0.0115 ppm	0.0119 ppm	0.0165 ppm	0.0869 ppm	0.0095 ppm
Recovery Percentage 1	0.000 %	112.480 %	114.821 %	122.068 %	0.000 %	0.000 %	108.279 %
Concentration RSD	2.1 %	2.8 %	0.2 %	**4.9 %**	9.5 %	15.6 %	11.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0110 ppm	0.0108 ppm	0.0115 ppm	0.2077 ppm	0.0118 ppm	0.0101 ppm	0.0089 ppm
Concentration per Run 1	0.0109 ppm	0.0107 ppm	0.0115 ppm	0.2128 ppm	0.0114 ppm	0.0111 ppm	0.0101 ppm
Concentration per Run 2	0.0106 ppm	0.0109 ppm	0.0119 ppm	0.2083 ppm	0.0122 ppm	0.0093 ppm	0.0075 ppm
Concentration per Run 3	0.0116 ppm	0.0108 ppm	0.0110 ppm	0.2020 ppm	0.0119 ppm	0.0100 ppm	0.0091 ppm
Recovery Percentage 1	0.000 %	107.908 %	114.899 %	0.000 %	118.268 %	101.376 %	0.000 %
Concentration RSD	5.0 %	0.5 %	3.9 %	2.6 %	3.6 %	9.1 %	15.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0113 ppm	0.1271 ppm	0.0103 ppm	0.0104 ppm	0.0109 ppm	0.0110 ppm	0.0111 ppm
Concentration per Run 1	0.0086 ppm	0.1309 ppm	0.0110 ppm	0.0105 ppm	0.0111 ppm	0.0107 ppm	0.0116 ppm
Concentration per Run 2	0.0112 ppm	0.1273 ppm	0.0101 ppm	0.0104 ppm	0.0108 ppm	0.0108 ppm	0.0110 ppm
Concentration per Run 3	0.0142 ppm	0.1233 ppm	0.0100 ppm	0.0103 ppm	0.0107 ppm	0.0114 ppm	0.0107 ppm
Recovery Percentage 1	113.439 %	0.000 %	103.381 %	103.844 %	108.759 %	109.673 %	110.889 %
Concentration RSD	24.6 %	3.0 %	5.5 %	1.2 %	2.0 %	3.8 %	4.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0117 ppm	90.9084 %	100.6916 %	95.0085 %	93.1348 %	101.4970 %	96.1709 %
Concentration per Run 1	0.0119 ppm	89.2023 %	99.6234 %	94.5473 %	92.7655 %	100.4435 %	96.0758 %
Concentration per Run 2	0.0118 ppm	90.8626 %	100.5584 %	94.6716 %	93.0006 %	101.3002 %	96.2588 %
Concentration per Run 3	0.0115 ppm	92.6603 %	101.8929 %	95.8068 %	93.6383 %	102.7472 %	96.1782 %
Recovery Percentage 1	117.472 %						
Concentration RSD	1.8 %	1.9 %	1.1 %	0.7 %	0.5 %	1.1 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: 0.05
Analysis started at: 9/25/2024 6:46:50 AM
Rack 1
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0536 ppm	0.0475 ppm	0.0504 ppm	0.0545 ppm	0.0520 ppm	0.0521 ppm	0.0521 ppm
Concentration per Run 1	0.0551 ppm	0.0575 ppm	0.0495 ppm	0.0574 ppm	0.0530 ppm	0.0529 ppm	0.0522 ppm
Concentration per Run 2	0.0529 ppm	0.0444 ppm	0.0500 ppm	0.0538 ppm	0.0520 ppm	0.0523 ppm	0.0514 ppm
Concentration per Run 3	0.0527 ppm	0.0406 ppm	0.0516 ppm	0.0523 ppm	0.0509 ppm	0.0512 ppm	0.0526 ppm
Recovery Percentage 1	0.000 %	94.989 %	0.000 %	0.000 %	0.000 %	0.000 %	104.201 %
Concentration RSD	2.4 %	18.7 %	2.2 %	4.7 %	2.0 %	1.7 %	1.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0545 ppm	0.0558 ppm	0.0538 ppm	0.0532 ppm	0.0553 ppm	0.5312 ppm	0.0516 ppm
Concentration per Run 1	0.0563 ppm	0.0570 ppm	0.0554 ppm	0.0550 ppm	0.0582 ppm	0.5264 ppm	0.0528 ppm
Concentration per Run 2	0.0541 ppm	0.0559 ppm	0.0536 ppm	0.0527 ppm	0.0550 ppm	0.5499 ppm	0.0513 ppm
Concentration per Run 3	0.0531 ppm	0.0546 ppm	0.0525 ppm	0.0521 ppm	0.0527 ppm	0.5173 ppm	0.0507 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	0.000 %	110.600 %	21.247 %	0.000 %
Concentration RSD	3.0 %	2.2 %	2.6 %	2.9 %	5.0 %	3.2 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0538 ppm	0.0516 ppm	0.0545 ppm	1.0301 ppm	0.0557 ppm	0.0522 ppm	0.0536 ppm
Concentration per Run 1	0.0546 ppm	0.0518 ppm	0.0560 ppm	1.0390 ppm	0.0571 ppm	0.0528 ppm	0.0544 ppm
Concentration per Run 2	0.0545 ppm	0.0517 ppm	0.0538 ppm	1.0344 ppm	0.0553 ppm	0.0517 ppm	0.0530 ppm
Concentration per Run 3	0.0523 ppm	0.0512 ppm	0.0537 ppm	1.0169 ppm	0.0547 ppm	0.0522 ppm	0.0533 ppm
Recovery Percentage 1	107.610 %	0.000 %	0.000 %	103.010 %	0.000 %	0.000 %	107.115 %
Concentration RSD	2.4 %	0.7 %	2.3 %	1.1 %	2.2 %	1.0 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0525 ppm	0.5889 ppm	0.0518 ppm	0.0502 ppm	0.0540 ppm	0.0514 ppm	0.0528 ppm
Concentration per Run 1	0.0531 ppm	0.6028 ppm	0.0529 ppm	0.0509 ppm	0.0553 ppm	0.0512 ppm	0.0540 ppm
Concentration per Run 2	0.0504 ppm	0.5856 ppm	0.0512 ppm	0.0503 ppm	0.0534 ppm	0.0516 ppm	0.0525 ppm
Concentration per Run 3	0.0541 ppm	0.5783 ppm	0.0512 ppm	0.0494 ppm	0.0532 ppm	0.0514 ppm	0.0518 ppm
Recovery Percentage 1	0.000 %	117.785 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	3.6 %	2.1 %	1.9 %	1.5 %	2.1 %	0.4 %	2.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0551 ppm	92.7919 %	103.9598 %	96.1272 %	93.6773 %	103.7695 %	96.3490 %
Concentration per Run 1	0.0569 ppm	90.3721 %	103.4213 %	96.0354 %	92.8590 %	103.2900 %	96.3647 %
Concentration per Run 2	0.0547 ppm	92.9449 %	103.7805 %	96.2653 %	93.4188 %	103.4212 %	96.7043 %
Concentration per Run 3	0.0538 ppm	95.0588 %	104.6775 %	96.0808 %	94.7543 %	104.5973 %	95.9778 %
Recovery Percentage 1	110.274 %						
Concentration RSD	2.8 %	2.5 %	0.6 %	0.1 %	1.0 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: Idr 20ppm b
Analysis started at: 9/25/2024 6:50:46 AM
Rack 1
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	-0.0025 ppm	0.0006 ppm	20.3657 [SIC 20]	-0.0001 ppm	0.0000 ppm	-0.0030 ppm
Concentration per Run 1	-0.0004 ppm	-0.0013 ppm	0.0022 ppm	21.0330 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 2	-0.0003 ppm	-0.0020 ppm	-0.0002 ppm	20.2202 ppm	-0.0001 ppm	0.0000 ppm	-0.0028 ppm
Concentration per Run 3	-0.0005 ppm	-0.0042 ppm	-0.0003 ppm	19.8439 ppm	0.0000 ppm	0.0000 ppm	-0.0067 ppm
Concentration RSD	32.8 %	60.5 %	243.8 %	3.0 %	75.9 %	165.6 %	119.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0013 ppm	0.0032 ppm	-0.0217 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0000 ppm	0.0015 ppm	0.0023 ppm	-0.0365 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0000 ppm	0.0010 ppm	0.0043 ppm	-0.0057 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0014 ppm	0.0030 ppm	-0.0230 ppm	0.0009 ppm
Concentration RSD	3,764.0 %	6,443.8 %	161.5 %	19.6 %	32.2 %	71.0 %	1,035.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0131 ppm	0.0001 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 1	-0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0138 ppm	0.0000 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 2	-0.0031 ppm	-0.0001 ppm	-0.0003 ppm	-0.0118 ppm	0.0001 ppm	-0.0001 ppm	-0.0026 ppm
Concentration per Run 3	0.0004 ppm	0.0002 ppm	-0.0001 ppm	-0.0135 ppm	0.0002 ppm	0.0006 ppm	0.0002 ppm
Concentration RSD	187.7 %	620.5 %	595.7 %	8.1 %	101.9 %	1,045.7 %	195.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0074 ppm	-0.0006 ppm	0.0000 ppm	-0.0003 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0072 ppm	-0.0001 ppm	-0.0001 ppm	-0.0003 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0073 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0015 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.0078 ppm	-0.0013 ppm	0.0000 ppm	-0.0004 ppm	-0.0004 ppm	0.0002 ppm
Concentration RSD	454.1 %	4.0 %	101.4 %	224.0 %	53.2 %	71.9 %	5,653.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	91.6432 %	102.7822 %	95.8247 %	93.6659 %	103.1105 %	97.3856 %
Concentration per Run 1	0.0005 ppm	88.7989 %	102.4761 %	95.8211 %	92.0245 %	103.1257 %	98.0080 %
Concentration per Run 2	0.0007 ppm	92.5849 %	102.7497 %	95.6894 %	94.8358 %	102.8209 %	97.1383 %
Concentration per Run 3	0.0007 ppm	93.5458 %	103.1207 %	95.9635 %	94.1376 %	103.3848 %	97.0104 %
Concentration RSD	20.4 %	2.7 %	0.3 %	0.1 %	1.6 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: ldr 500 fe
Analysis started at: 9/25/2024 6:54:42 AM
Rack 1
Vial 5
Comment LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	0.0493 ppm	-0.0002 ppm	0.0148 ppm	0.0004 ppm	0.0000 ppm	-0.0059 ppm
Concentration per Run 1	0.0009 ppm	0.0446 ppm	0.0017 ppm	0.0160 ppm	0.0004 ppm	0.0000 ppm	-0.0033 ppm
Concentration per Run 2	0.0000 ppm	0.0475 ppm	-0.0012 ppm	0.0160 ppm	0.0005 ppm	0.0000 ppm	-0.0074 ppm
Concentration per Run 3	-0.0001 ppm	0.0559 ppm	-0.0011 ppm	0.0124 ppm	0.0004 ppm	0.0000 ppm	-0.0071 ppm
Recovery Percentage 1	3.730 %	49.342 %	-7.105 %	49.313 %	4.480 %	-0.646 %	-5.929 %
Concentration RSD	204.1 %	11.8 %	771.1 %	13.9 %	3.9 %	64.9 %	38.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	-0.0019 ppm	-0.0023 ppm	-0.0047 ppm	481.1757 ppm	-0.0797 ppm	0.0009 ppm
Concentration per Run 1	0.0003 ppm	-0.0022 ppm	-0.0022 ppm	-0.0036 ppm	481.7682 ppm	-0.0902 ppm	0.0009 ppm
Concentration per Run 2	0.0003 ppm	-0.0018 ppm	-0.0022 ppm	-0.0053 ppm	481.4241 ppm	-0.0736 ppm	0.0000 ppm
Concentration per Run 3	0.0004 ppm	-0.0016 ppm	-0.0027 ppm	-0.0052 ppm	480.3350 ppm	-0.0755 ppm	0.0018 ppm
Recovery Percentage 1	6.410 %	-9.339 %	-23.465 %	-47.103 %	962,351.465 %	-3.190 %	9.392 %
Concentration RSD	27.8 %	14.5 %	13.0 %	20.4 %	0.2 %	11.4 %	96.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0129 ppm	0.0003 ppm	-0.0024 ppm	-0.0120 ppm	-0.0019 ppm	-0.0011 ppm	0.0091 ppm
Concentration per Run 1	0.0141 ppm	0.0002 ppm	-0.0025 ppm	-0.0106 ppm	-0.0021 ppm	-0.0013 ppm	0.0113 ppm
Concentration per Run 2	0.0114 ppm	0.0004 ppm	-0.0024 ppm	-0.0115 ppm	-0.0019 ppm	-0.0015 ppm	0.0073 ppm
Concentration per Run 3	0.0132 ppm	0.0003 ppm	-0.0024 ppm	-0.0139 ppm	-0.0017 ppm	-0.0004 ppm	0.0088 ppm
Recovery Percentage 1	12.880 %	2.934 %	-4.897 %	-0.600 %	-7.591 %	-10.536 %	18.250 %
Concentration RSD	10.4 %	22.5 %	1.5 %	14.5 %	9.3 %	58.5 %	22.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	0.0050 ppm	0.0016 ppm	0.0004 ppm	-0.0002 ppm	0.0017 ppm	-0.0005 ppm
Concentration per Run 1	-0.0004 ppm	0.0055 ppm	0.0018 ppm	0.0005 ppm	-0.0001 ppm	0.0013 ppm	-0.0006 ppm
Concentration per Run 2	0.0008 ppm	0.0055 ppm	0.0009 ppm	0.0005 ppm	-0.0002 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 3	-0.0008 ppm	0.0039 ppm	0.0022 ppm	0.0004 ppm	-0.0004 ppm	0.0027 ppm	-0.0004 ppm
Recovery Percentage 1	-1.219 %	0.995 %	3.296 %	4.354 %	-2.257 %	8.270 %	-4.754 %
Concentration RSD	677.7 %	18.9 %	40.2 %	17.1 %	68.5 %	55.3 %	15.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	96.3455 %	103.1487 %	90.5459 %	91.3037 %	100.8849 %	94.1819 %
Concentration per Run 1	-0.0006 ppm	95.7718 %	104.3036 %	90.4612 %	91.1125 %	102.0731 %	94.3165 %
Concentration per Run 2	-0.0006 ppm	96.6168 %	101.8733 %	90.2266 %	91.4932 %	99.6248 %	93.7437 %
Concentration per Run 3	-0.0007 ppm	96.6479 %	103.2692 %	90.9499 %	91.3053 %	100.9569 %	94.4853 %
Recovery Percentage 1	-12.069 %						
Concentration RSD	13.4 %	0.5 %	1.2 %	0.4 %	0.2 %	1.2 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: Idr 500ppm al
Analysis started at: 9/25/2024 6:58:38 AM
Rack 1
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	508.8662 [SIC 500]	-0.0015 ppm	0.0051 ppm	-0.0001 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 1	0.0001 ppm	509.6358 ppm	-0.0001 ppm	0.0051 ppm	-0.0001 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 2	-0.0001 ppm	509.8193 ppm	-0.0003 ppm	0.0045 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 3	-0.0002 ppm	507.1434 ppm	-0.0042 ppm	0.0057 ppm	-0.0002 ppm	0.0000 ppm	-0.0003 ppm
Concentration RSD	174.2 %	0.3 %	150.7 %	11.6 %	75.5 %	1,047.6 %	104.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0006 ppm	0.0005 ppm	0.0003 ppm	-0.0017 ppm	0.0159 ppm	-0.0279 ppm	-0.0006 ppm
Concentration per Run 1	-0.0005 ppm	0.0006 ppm	-0.0001 ppm	-0.0014 ppm	0.0150 ppm	-0.0253 ppm	-0.0024 ppm
Concentration per Run 2	-0.0007 ppm	0.0002 ppm	0.0004 ppm	-0.0019 ppm	0.0167 ppm	-0.0430 ppm	-0.0009 ppm
Concentration per Run 3	-0.0005 ppm	0.0007 ppm	0.0006 ppm	-0.0018 ppm	0.0160 ppm	-0.0154 ppm	0.0014 ppm
Concentration RSD	18.0 %	57.2 %	138.4 %	14.7 %	5.3 %	50.1 %	305.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0005 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	-0.0017 ppm	-0.0038 ppm
Concentration per Run 1	0.0016 ppm	0.0009 ppm	0.0006 ppm	0.0043 ppm	0.0010 ppm	0.0003 ppm	-0.0051 ppm
Concentration per Run 2	-0.0013 ppm	0.0006 ppm	-0.0009 ppm	0.0003 ppm	0.0002 ppm	-0.0031 ppm	-0.0020 ppm
Concentration per Run 3	0.0012 ppm	0.0006 ppm	-0.0001 ppm	-0.0046 ppm	-0.0002 ppm	-0.0023 ppm	-0.0045 ppm
Concentration RSD	323.0 %	18.5 %	550.5 %	20,419.8 %	168.9 %	103.6 %	42.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0026 ppm	0.0037 ppm	-0.0009 ppm	0.0000 ppm	0.0002 ppm	0.0032 ppm	0.0003 ppm
Concentration per Run 1	-0.0005 ppm	0.0045 ppm	0.0007 ppm	-0.0001 ppm	0.0003 ppm	0.0035 ppm	0.0003 ppm
Concentration per Run 2	-0.0047 ppm	0.0037 ppm	-0.0012 ppm	0.0001 ppm	0.0001 ppm	0.0031 ppm	0.0005 ppm
Concentration per Run 3	-0.0027 ppm	0.0029 ppm	-0.0023 ppm	0.0001 ppm	0.0002 ppm	0.0030 ppm	0.0002 ppm
Concentration RSD	80.5 %	21.4 %	162.6 %	251.8 %	65.1 %	9.3 %	43.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0012 ppm	90.7853 %	105.6493 %	93.4416 %	88.1965 %	105.3020 %	94.2332 %
Concentration per Run 1	0.0011 ppm	89.5347 %	105.0441 %	93.3560 %	87.7818 %	104.8964 %	94.2029 %
Concentration per Run 2	0.0014 ppm	91.2343 %	105.8105 %	93.3561 %	88.5567 %	105.6803 %	94.1884 %
Concentration per Run 3	0.0010 ppm	91.5867 %	106.0933 %	93.6128 %	88.2510 %	105.3294 %	94.3081 %
Concentration RSD	17.5 %	1.2 %	0.5 %	0.2 %	0.4 %	0.4 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: Idr 1000ppm ca
Analysis started at: 9/25/2024 7:02:35 AM
Rack 1
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0305 ppm	0.0010 ppm	0.0055 ppm	0.0009 ppm	0.0000 ppm	944.0655 ppm
Concentration per Run 1	-0.0005 ppm	0.0285 ppm	0.0006 ppm	0.0058 ppm	0.0009 ppm	0.0000 ppm	943.5960 ppm
Concentration per Run 2	-0.0003 ppm	0.0296 ppm	0.0010 ppm	0.0051 ppm	0.0010 ppm	0.0000 ppm	944.9309 ppm
Concentration per Run 3	-0.0002 ppm	0.0334 ppm	0.0014 ppm	0.0057 ppm	0.0010 ppm	0.0000 ppm	943.6696 ppm
Concentration RSD	40.1 %	8.5 %	39.1 %	6.7 %	7.0 %	386.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0002 ppm	-0.0002 ppm	0.0019 ppm	0.0037 ppm	0.0058 ppm	-0.0002 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	-0.0003 ppm	0.0020 ppm	0.0040 ppm	0.0063 ppm	0.0010 ppm
Concentration per Run 2	0.0003 ppm	0.0000 ppm	-0.0004 ppm	0.0020 ppm	0.0032 ppm	-0.0115 ppm	0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0017 ppm	0.0038 ppm	0.0225 ppm	-0.0018 ppm
Concentration RSD	7.2 %	107.4 %	94.4 %	7.9 %	11.9 %	294.6 %	592.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0143 ppm	0.0003 ppm	0.0001 ppm	0.0012 ppm	-0.0004 ppm	0.0013 ppm	-0.0007 ppm
Concentration per Run 1	0.0148 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	-0.0006 ppm	0.0014 ppm	-0.0030 ppm
Concentration per Run 2	0.0139 ppm	0.0003 ppm	0.0003 ppm	0.0030 ppm	-0.0006 ppm	0.0008 ppm	0.0015 ppm
Concentration per Run 3	0.0141 ppm	0.0005 ppm	-0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0015 ppm	-0.0005 ppm
Concentration RSD	3.3 %	40.3 %	146.9 %	125.9 %	113.8 %	30.2 %	337.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	0.0160 ppm	-0.0008 ppm	-0.0006 ppm	-0.0010 ppm	-0.0021 ppm	0.0008 ppm
Concentration per Run 1	0.0008 ppm	0.0171 ppm	-0.0006 ppm	-0.0007 ppm	-0.0012 ppm	-0.0029 ppm	0.0009 ppm
Concentration per Run 2	0.0019 ppm	0.0142 ppm	0.0000 ppm	-0.0006 ppm	-0.0007 ppm	-0.0017 ppm	0.0008 ppm
Concentration per Run 3	0.0013 ppm	0.0167 ppm	-0.0018 ppm	-0.0005 ppm	-0.0010 ppm	-0.0015 ppm	0.0007 ppm
Concentration RSD	41.7 %	9.7 %	111.8 %	19.7 %	24.3 %	37.2 %	17.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	87.7510 %	96.7952 %	82.8945 %	84.6700 %	95.6227 %	85.2100 %
Concentration per Run 1	0.0021 ppm	87.3880 %	96.7876 %	83.1113 %	84.9471 %	95.6927 %	85.5117 %
Concentration per Run 2	0.0022 ppm	88.0347 %	96.5771 %	82.6412 %	84.6801 %	95.4510 %	84.7872 %
Concentration per Run 3	0.0021 ppm	87.8302 %	97.0209 %	82.9309 %	84.3827 %	95.7244 %	85.3312 %
Concentration RSD	0.8 %	0.4 %	0.2 %	0.3 %	0.3 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 7:28:11 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4863 ppm	0.4887 ppm	0.4686 ppm	0.4620 ppm	0.5086 ppm	0.5197 ppm	0.4955 ppm
Concentration per Run 1	0.4869 ppm	0.4849 ppm	0.4671 ppm	0.4635 ppm	0.5078 ppm	0.5191 ppm	0.4981 ppm
Concentration per Run 2	0.4855 ppm	0.4862 ppm	0.4665 ppm	0.4607 ppm	0.5051 ppm	0.5173 ppm	0.4932 ppm
Concentration per Run 3	0.4865 ppm	0.4950 ppm	0.4722 ppm	0.4617 ppm	0.5128 ppm	0.5227 ppm	0.4951 ppm
Recovery Percentage 1	97.261 %	97.740 %	93.726 %	92.393 %	101.712 %	103.942 %	99.098 %
Concentration RSD	0.2 %	1.1 %	0.7 %	0.3 %	0.8 %	0.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.4864 ppm	0.4926 ppm	0.4849 ppm	0.4809 ppm	0.5134 ppm	5.2669 ppm	0.4865 ppm
Concentration per Run 1	0.4888 ppm	0.4940 ppm	0.4889 ppm	0.4816 ppm	0.5136 ppm	5.2926 ppm	0.4917 ppm
Concentration per Run 2	0.4856 ppm	0.4914 ppm	0.4830 ppm	0.4806 ppm	0.5111 ppm	5.2100 ppm	0.4840 ppm
Concentration per Run 3	0.4849 ppm	0.4924 ppm	0.4829 ppm	0.4805 ppm	0.5154 ppm	5.2981 ppm	0.4837 ppm
Recovery Percentage 1	97.287 %	98.520 %	96.984 %	96.185 %	102.673 %	105.338 %	97.291 %
Concentration RSD	0.4 %	0.3 %	0.7 %	0.1 %	0.4 %	0.9 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4722 ppm	0.5053 ppm	0.4913 ppm	10.1059 ppm	0.4894 ppm	0.5022 ppm	0.4736 ppm
Concentration per Run 1	0.4751 ppm	0.5059 ppm	0.4888 ppm	10.1242 ppm	0.4919 ppm	0.5011 ppm	0.4734 ppm
Concentration per Run 2	0.4691 ppm	0.5042 ppm	0.4913 ppm	10.0586 ppm	0.4902 ppm	0.4995 ppm	0.4718 ppm
Concentration per Run 3	0.4723 ppm	0.5059 ppm	0.4938 ppm	10.1350 ppm	0.4862 ppm	0.5058 ppm	0.4755 ppm
Recovery Percentage 1	94.435 %	101.065 %	98.257 %	101.059 %	97.888 %	100.431 %	94.719 %
Concentration RSD	0.6 %	0.2 %	0.5 %	0.4 %	0.6 %	0.7 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4660 ppm	5.2997 ppm	0.4695 ppm	0.4906 ppm	0.4986 ppm	0.5161 ppm	0.4901 ppm
Concentration per Run 1	0.4650 ppm	5.3021 ppm	0.4705 ppm	0.4896 ppm	0.5002 ppm	0.5156 ppm	0.4914 ppm
Concentration per Run 2	0.4628 ppm	5.2908 ppm	0.4714 ppm	0.4900 ppm	0.4964 ppm	0.5162 ppm	0.4892 ppm
Concentration per Run 3	0.4701 ppm	5.3063 ppm	0.4666 ppm	0.4923 ppm	0.4993 ppm	0.5164 ppm	0.4898 ppm
Recovery Percentage 1	93.202 %	100.947 %	93.898 %	98.123 %	99.727 %	103.214 %	98.027 %
Concentration RSD	0.8 %	0.2 %	0.5 %	0.3 %	0.4 %	0.1 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4811 ppm	104.7724 %	102.5298 %	101.8429 %	100.6175 %	99.9627 %	99.8948 %
Concentration per Run 1	0.4834 ppm	104.3256 %	102.2242 %	102.0347 %	100.2059 %	99.6146 %	99.8638 %
Concentration per Run 2	0.4795 ppm	105.3048 %	103.1474 %	102.3649 %	101.0773 %	100.6747 %	100.3689 %
Concentration per Run 3	0.4804 ppm	104.6868 %	102.2177 %	101.1290 %	100.5691 %	99.5989 %	99.4517 %
Recovery Percentage 1	96.225 %						
Concentration RSD	0.4 %	0.5 %	0.5 %	0.6 %	0.4 %	0.6 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 7:32:25 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0040 ppm	0.0013 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0066 ppm
Concentration per Run 1	0.0002 ppm	-0.0045 ppm	0.0012 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	-0.0091 ppm
Concentration per Run 2	0.0000 ppm	-0.0104 ppm	0.0015 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	-0.0044 ppm
Concentration per Run 3	0.0001 ppm	0.0030 ppm	0.0012 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	-0.0063 ppm
Recovery Percentage 1	1.326 %	-3.953 %	42.805 %	3.450 %	-0.411 %	-0.056 %	-6.607 %
Concentration RSD	128.9 %	169.4 %	15.4 %	27.7 %	481.1 %	515.0 %	35.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0014 ppm	0.0043 ppm	-0.0243 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0014 ppm	0.0042 ppm	-0.0305 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0009 ppm	0.0014 ppm	0.0041 ppm	-0.0189 ppm	0.0009 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0007 ppm	0.0015 ppm	0.0046 ppm	-0.0235 ppm	-0.0013 ppm
Recovery Percentage 1	-0.504 %	1.264 %	6.986 %	14.039 %	8.558 %	-0.971 %	-0.744 %
Concentration RSD	494.6 %	46.4 %	26.1 %	3.1 %	6.8 %	24.0 %	1,515.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0011 ppm	0.0002 ppm	0.0017 ppm	-0.0157 ppm	-0.0001 ppm	-0.0002 ppm	-0.0017 ppm
Concentration per Run 1	-0.0004 ppm	0.0004 ppm	0.0017 ppm	-0.0131 ppm	0.0000 ppm	-0.0005 ppm	-0.0038 ppm
Concentration per Run 2	-0.0012 ppm	0.0000 ppm	0.0018 ppm	-0.0161 ppm	-0.0004 ppm	0.0000 ppm	-0.0024 ppm
Concentration per Run 3	-0.0016 ppm	0.0002 ppm	0.0016 ppm	-0.0180 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm
Recovery Percentage 1	-1.082 %	1.890 %	3.411 %	-0.787 %	-0.283 %	-1.773 %	-3.434 %
Concentration RSD	56.6 %	101.5 %	3.9 %	15.5 %	380.2 %	169.4 %	144.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	0.0063 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0057 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 2	0.0020 ppm	0.0068 ppm	-0.0006 ppm	-0.0001 ppm	-0.0002 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0026 ppm	0.0062 ppm	-0.0016 ppm	0.0001 ppm	0.0001 ppm	-0.0016 ppm	0.0003 ppm
Recovery Percentage 1	16.415 %	1.250 %	-0.855 %	0.515 %	-0.210 %	-1.131 %	1.850 %
Concentration RSD	76.1 %	8.8 %	299.6 %	228.9 %	551.4 %	649.9 %	84.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	91.7988 %	100.8132 %	95.6714 %	94.0475 %	101.6120 %	96.6211 %
Concentration per Run 1	0.0005 ppm	89.9141 %	99.5544 %	95.3844 %	93.4282 %	100.2487 %	96.9487 %
Concentration per Run 2	0.0003 ppm	91.8947 %	101.1945 %	95.7517 %	94.1157 %	102.0714 %	96.6007 %
Concentration per Run 3	0.0003 ppm	93.5877 %	101.6906 %	95.8781 %	94.5985 %	102.5160 %	96.3140 %
Recovery Percentage 1	7.478 %						
Concentration RSD	28.4 %	2.0 %	1.1 %	0.3 %	0.6 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975485-1 WG1975485
Analysis started at: 9/25/2024 7:37:24 AM
Rack 1
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0050 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0017 ppm
Concentration per Run 1	-0.0005 ppm	-0.0058 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 2	-0.0003 ppm	-0.0107 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0015 ppm	-0.0004 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0013 ppm
Recovery Percentage 1	-3.743 %	-5.007 %	15.924 %	0.279 %	-0.237 %	-0.892 %	-1.693 %
Concentration RSD	74.5 %	123.0 %	176.7 %	188.6 %	164.2 %	111.0 %	22.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0016 ppm	-0.0007 ppm	-0.0327 ppm	-0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	-0.0006 ppm	0.0017 ppm	-0.0017 ppm	-0.0372 ppm	-0.0017 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	-0.0007 ppm	0.0015 ppm	-0.0005 ppm	-0.0311 ppm	-0.0008 ppm
Concentration per Run 3	-0.0001 ppm	0.0004 ppm	-0.0005 ppm	0.0015 ppm	0.0000 ppm	-0.0296 ppm	0.0001 ppm
Recovery Percentage 1	-1.675 %	1.304 %	-6.051 %	15.900 %	-1.479 %	-1.306 %	-8.127 %
Concentration RSD	19.1 %	47.9 %	18.1 %	7.6 %	113.0 %	12.3 %	111.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0003 ppm	-0.0147 ppm	0.0001 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 1	0.0016 ppm	-0.0001 ppm	0.0002 ppm	-0.0163 ppm	0.0001 ppm	0.0003 ppm	-0.0024 ppm
Concentration per Run 2	-0.0013 ppm	-0.0001 ppm	0.0004 ppm	-0.0142 ppm	0.0003 ppm	0.0001 ppm	-0.0021 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0004 ppm	-0.0136 ppm	-0.0001 ppm	-0.0003 ppm	-0.0021 ppm
Recovery Percentage 1	0.063 %	-1.472 %	0.697 %	-0.735 %	0.413 %	0.342 %	-4.440 %
Concentration RSD	2,332.2 %	49.8 %	34.3 %	9.6 %	205.2 %	1,003.2 %	8.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.0102 ppm	-0.0015 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0118 ppm	-0.0016 ppm	0.0000 ppm	-0.0005 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run 2	0.0021 ppm	0.0101 ppm	-0.0013 ppm	0.0001 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0004 ppm	0.0088 ppm	-0.0017 ppm	0.0000 ppm	0.0001 ppm	0.0015 ppm	-0.0001 ppm
Recovery Percentage 1	8.534 %	2.047 %	-3.006 %	0.318 %	-2.239 %	3.023 %	-0.115 %
Concentration RSD	130.2 %	14.5 %	14.3 %	126.3 %	133.5 %	156.6 %	650.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	87.7305 %	98.4625 %	92.5463 %	94.6564 %	102.2343 %	97.6310 %
Concentration per Run 1	0.0005 ppm	85.1105 %	97.9457 %	92.0315 %	93.4948 %	102.0770 %	98.1342 %
Concentration per Run 2	0.0006 ppm	88.4039 %	98.2221 %	92.9889 %	95.1452 %	101.9891 %	98.1026 %
Concentration per Run 3	0.0006 ppm	89.6770 %	99.2197 %	92.6184 %	95.3291 %	102.6367 %	96.6562 %
Recovery Percentage 1	11.387 %						
Concentration RSD	10.9 %	2.7 %	0.7 %	0.5 %	1.1 %	0.3 %	0.9 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975485-2 WG1975485
Analysis started at: 9/25/2024 7:41:23 AM
Rack 1
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0544 ppm	2.0386 ppm	0.1214 ppm	1.0206 ppm	2.0585 ppm	0.0521 ppm	10.1876 ppm
Concentration per Run 1	0.0553 ppm	2.0488 ppm	0.1232 ppm	1.0394 ppm	2.0689 ppm	0.0520 ppm	10.2425 ppm
Concentration per Run 2	0.0546 ppm	2.0364 ppm	0.1191 ppm	1.0159 ppm	2.0630 ppm	0.0525 ppm	10.1400 ppm
Concentration per Run 3	0.0533 ppm	2.0306 ppm	0.1220 ppm	1.0065 ppm	2.0434 ppm	0.0519 ppm	10.1802 ppm
Concentration RSD	1.9 %	0.5 %	1.7 %	1.7 %	0.7 %	0.5 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0571 ppm	0.5315 ppm	0.2118 ppm	0.2687 ppm	1.0446 ppm	10.4292 ppm	-0.0004 ppm
Concentration per Run 1	0.0582 ppm	0.5409 ppm	0.2163 ppm	0.2732 ppm	1.0514 ppm	10.5329 ppm	0.0002 ppm
Concentration per Run 2	0.0569 ppm	0.5303 ppm	0.2113 ppm	0.2679 ppm	1.0460 ppm	10.4201 ppm	0.0000 ppm
Concentration per Run 3	0.0562 ppm	0.5233 ppm	0.2079 ppm	0.2649 ppm	1.0363 ppm	10.3346 ppm	-0.0013 ppm
Concentration RSD	1.7 %	1.7 %	2.0 %	1.5 %	0.7 %	1.0 %	215.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.3784 ppm	0.5244 ppm	0.9672 ppm	10.3387 ppm	0.5353 ppm	0.5487 ppm	0.4711 ppm
Concentration per Run 1	10.5824 ppm	0.5267 ppm	0.9760 ppm	10.4182 ppm	0.5464 ppm	0.5524 ppm	0.4720 ppm
Concentration per Run 2	10.3499 ppm	0.5244 ppm	0.9656 ppm	10.3086 ppm	0.5334 ppm	0.5475 ppm	0.4732 ppm
Concentration per Run 3	10.2030 ppm	0.5222 ppm	0.9598 ppm	10.2895 ppm	0.5261 ppm	0.5463 ppm	0.4681 ppm
Concentration RSD	1.8 %	0.4 %	0.8 %	0.7 %	1.9 %	0.6 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1223 ppm	0.7651 ppm	0.9819 ppm	0.9707 ppm	1.0465 ppm	0.1226 ppm	0.5395 ppm
Concentration per Run 1	0.1223 ppm	0.7823 ppm	0.9990 ppm	0.9724 ppm	1.0695 ppm	0.1239 ppm	0.5491 ppm
Concentration per Run 2	0.1226 ppm	0.7624 ppm	0.9774 ppm	0.9712 ppm	1.0418 ppm	0.1220 ppm	0.5374 ppm
Concentration per Run 3	0.1220 ppm	0.7506 ppm	0.9694 ppm	0.9684 ppm	1.0283 ppm	0.1220 ppm	0.5320 ppm
Concentration RSD	0.3 %	2.1 %	1.6 %	0.2 %	2.0 %	0.9 %	1.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5392 ppm	93.2317 %	103.3984 %	94.4254 %	94.1048 %	102.4762 %	95.8367 %
Concentration per Run 1	0.5505 ppm	91.6057 %	102.6005 %	93.7212 %	94.1849 %	101.9585 %	95.9041 %
Concentration per Run 2	0.5382 ppm	93.8075 %	103.8333 %	94.5250 %	94.3558 %	102.5700 %	95.7322 %
Concentration per Run 3	0.5290 ppm	94.2819 %	103.7615 %	95.0301 %	93.7736 %	102.9002 %	95.8738 %
Concentration RSD	2.0 %	1.5 %	0.7 %	0.7 %	0.3 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453546-01 WG1974865
Analysis started at: 9/25/2024 7:45:21 AM
Rack 1
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0060 ppm	-0.0001 ppm	0.0749 ppm	0.0043 ppm	0.0000 ppm	99.4709 ppm
Concentration per Run 1	-0.0005 ppm	-0.0053 ppm	-0.0005 ppm	0.0791 ppm	0.0043 ppm	0.0000 ppm	99.4250 ppm
Concentration per Run 2	0.0001 ppm	-0.0034 ppm	0.0003 ppm	0.0735 ppm	0.0041 ppm	0.0000 ppm	99.8651 ppm
Concentration per Run 3	0.0000 ppm	-0.0092 ppm	0.0001 ppm	0.0721 ppm	0.0044 ppm	0.0000 ppm	99.1227 ppm
Concentration RSD	198.6 %	48.8 %	733.8 %	4.9 %	3.6 %	104.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.1195 ppm	0.2601 ppm	1.8786 ppm	0.0032 ppm
Concentration per Run 1	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.1221 ppm	0.2619 ppm	1.8804 ppm	0.0052 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	-0.0002 ppm	0.1187 ppm	0.2595 ppm	1.8815 ppm	0.0022 ppm
Concentration per Run 3	-0.0004 ppm	-0.0001 ppm	0.0001 ppm	0.1175 ppm	0.2591 ppm	1.8738 ppm	0.0024 ppm
Concentration RSD	13.7 %	291.2 %	397.9 %	2.0 %	0.6 %	0.2 %	52.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.0387 ppm	0.1021 ppm	0.0056 ppm	18.2558 ppm	0.0013 ppm	0.0088 ppm	0.0003 ppm
Concentration per Run 1	24.7567 ppm	0.1026 ppm	0.0055 ppm	18.3574 ppm	0.0015 ppm	0.0084 ppm	0.0005 ppm
Concentration per Run 2	23.9275 ppm	0.1019 ppm	0.0058 ppm	18.1593 ppm	0.0011 ppm	0.0095 ppm	-0.0016 ppm
Concentration per Run 3	23.4319 ppm	0.1019 ppm	0.0055 ppm	18.2507 ppm	0.0015 ppm	0.0086 ppm	0.0019 ppm
Concentration RSD	2.8 %	0.4 %	3.2 %	0.5 %	19.0 %	6.4 %	695.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	12.8249 ppm	0.0011 ppm	0.2115 ppm	-0.0001 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 1	0.0017 ppm	13.1619 ppm	0.0013 ppm	0.2112 ppm	-0.0003 ppm	-0.0010 ppm	0.0030 ppm
Concentration per Run 2	0.0010 ppm	12.8091 ppm	0.0017 ppm	0.2124 ppm	0.0000 ppm	-0.0008 ppm	0.0028 ppm
Concentration per Run 3	-0.0009 ppm	12.5038 ppm	0.0003 ppm	0.2110 ppm	-0.0002 ppm	0.0016 ppm	0.0025 ppm
Concentration RSD	220.0 %	2.6 %	64.9 %	0.3 %	121.9 %	3,315.6 %	8.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1217 ppm	87.6563 %	100.2248 %	89.5604 %	91.6471 %	101.7742 %	93.6448 %
Concentration per Run 1	0.1244 ppm	85.3900 %	101.2188 %	89.0912 %	90.6372 %	103.0984 %	93.8325 %
Concentration per Run 2	0.1217 ppm	87.9149 %	99.6473 %	89.9471 %	91.5671 %	101.3641 %	93.8146 %
Concentration per Run 3	0.1189 ppm	89.6639 %	99.8084 %	89.6430 %	92.7369 %	100.8600 %	93.2872 %
Concentration RSD	2.2 %	2.5 %	0.9 %	0.5 %	1.1 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453629-01 WG1974865
Analysis started at: 9/25/2024 7:49:18 AM
Rack 1
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0141 ppm	0.0002 ppm	0.0043 ppm	0.0754 ppm	0.0000 ppm	146.2051 ppm
Concentration per Run 1	-0.0004 ppm	-0.0116 ppm	0.0012 ppm	0.0054 ppm	0.0757 ppm	0.0000 ppm	147.1197 ppm
Concentration per Run 2	-0.0004 ppm	-0.0204 ppm	-0.0004 ppm	0.0029 ppm	0.0752 ppm	0.0000 ppm	146.0996 ppm
Concentration per Run 3	0.0002 ppm	-0.0103 ppm	-0.0002 ppm	0.0046 ppm	0.0752 ppm	0.0000 ppm	145.3958 ppm
Concentration RSD	186.7 %	39.1 %	393.1 %	29.5 %	0.4 %	164.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0007 ppm	0.0003 ppm	-0.0001 ppm	0.1901 ppm	0.0007 ppm	3.1976 ppm	0.0070 ppm
Concentration per Run 1	-0.0006 ppm	0.0005 ppm	-0.0002 ppm	0.1963 ppm	-0.0002 ppm	3.2481 ppm	0.0075 ppm
Concentration per Run 2	-0.0007 ppm	0.0007 ppm	-0.0001 ppm	0.1894 ppm	0.0020 ppm	3.1653 ppm	0.0069 ppm
Concentration per Run 3	-0.0007 ppm	-0.0002 ppm	-0.0001 ppm	0.1846 ppm	0.0003 ppm	3.1795 ppm	0.0068 ppm
Concentration RSD	6.7 %	136.0 %	65.1 %	3.1 %	164.1 %	1.4 %	5.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.3552 ppm	0.0006 ppm	0.0010 ppm	54.7196 ppm	0.0003 ppm	0.0004 ppm	-0.0016 ppm
Concentration per Run 1	44.6212 ppm	0.0009 ppm	0.0008 ppm	55.2734 ppm	-0.0001 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 2	43.2171 ppm	0.0005 ppm	0.0011 ppm	54.3245 ppm	0.0005 ppm	0.0005 ppm	-0.0034 ppm
Concentration per Run 3	42.2273 ppm	0.0005 ppm	0.0011 ppm	54.5609 ppm	0.0005 ppm	0.0009 ppm	-0.0008 ppm
Concentration RSD	2.8 %	37.3 %	16.6 %	0.9 %	109.7 %	126.1 %	95.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	8.4826 ppm	-0.0014 ppm	0.3511 ppm	-0.0003 ppm	0.0005 ppm	0.0014 ppm
Concentration per Run 1	0.0007 ppm	8.7735 ppm	-0.0009 ppm	0.3504 ppm	-0.0004 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	0.0029 ppm	8.4415 ppm	-0.0019 ppm	0.3515 ppm	-0.0003 ppm	0.0016 ppm	0.0014 ppm
Concentration per Run 3	0.0015 ppm	8.2327 ppm	-0.0015 ppm	0.3514 ppm	-0.0001 ppm	-0.0001 ppm	0.0015 ppm
Concentration RSD	63.5 %	3.2 %	33.9 %	0.2 %	60.9 %	188.1 %	3.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9112 ppm	86.1977 %	98.5323 %	87.7288 %	90.7606 %	100.1709 %	92.0458 %
Concentration per Run 1	0.9438 ppm	84.0409 %	98.2676 %	87.6786 %	89.7696 %	100.3410 %	92.4949 %
Concentration per Run 2	0.9104 ppm	86.4381 %	97.9573 %	87.5110 %	90.9415 %	99.6104 %	91.6816 %
Concentration per Run 3	0.8793 ppm	88.1140 %	99.3719 %	87.9969 %	91.5707 %	100.5614 %	91.9609 %
Concentration RSD	3.5 %	2.4 %	0.8 %	0.3 %	1.0 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454640-01d2 WG1975353
Analysis started at: 9/25/2024 7:53:15 AM
Rack 1
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	51.1095 ppm	0.0445 ppm	0.0251 ppm	0.2345 ppm	0.0024 ppm	13.4450 ppm
Concentration per Run 1	0.0001 ppm	51.1021 ppm	0.0437 ppm	0.0260 ppm	0.2334 ppm	0.0024 ppm	13.4968 ppm
Concentration per Run 2	0.0003 ppm	51.2075 ppm	0.0442 ppm	0.0236 ppm	0.2339 ppm	0.0025 ppm	13.4520 ppm
Concentration per Run 3	0.0002 ppm	51.0188 ppm	0.0455 ppm	0.0257 ppm	0.2362 ppm	0.0024 ppm	13.3863 ppm
Concentration RSD	45.6 %	0.2 %	2.1 %	5.0 %	0.6 %	1.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0479 ppm	0.0629 ppm	0.0987 ppm	118.8041 ppm	2.5401 ppm	0.1266 ppm
Concentration per Run 1	0.0024 ppm	0.0485 ppm	0.0632 ppm	0.0998 ppm	118.6801 ppm	2.5634 ppm	0.1287 ppm
Concentration per Run 2	0.0024 ppm	0.0474 ppm	0.0630 ppm	0.0987 ppm	118.7006 ppm	2.5095 ppm	0.1272 ppm
Concentration per Run 3	0.0025 ppm	0.0478 ppm	0.0626 ppm	0.0976 ppm	119.0315 ppm	2.5473 ppm	0.1241 ppm
Concentration RSD	1.4 %	1.1 %	0.5 %	1.1 %	0.2 %	1.1 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	63.2048 ppm	2.7037 ppm	0.0021 ppm	0.1459 ppm	0.1100 ppm	0.4733 ppm	0.0094 ppm
Concentration per Run 1	63.5850 ppm	2.7091 ppm	0.0021 ppm	0.1453 ppm	0.1118 ppm	0.4698 ppm	0.0105 ppm
Concentration per Run 2	63.1208 ppm	2.6989 ppm	0.0019 ppm	0.1460 ppm	0.1087 ppm	0.4783 ppm	0.0100 ppm
Concentration per Run 3	62.9088 ppm	2.7031 ppm	0.0021 ppm	0.1465 ppm	0.1094 ppm	0.4717 ppm	0.0078 ppm
Concentration RSD	0.5 %	0.2 %	6.1 %	0.4 %	1.4 %	0.9 %	15.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	3.6374 ppm	0.0025 ppm	0.0523 ppm	0.3159 ppm	0.0004 ppm	0.0994 ppm
Concentration per Run 1	0.0000 ppm	3.6585 ppm	0.0026 ppm	0.0523 ppm	0.3207 ppm	0.0004 ppm	0.1000 ppm
Concentration per Run 2	-0.0013 ppm	3.6429 ppm	0.0030 ppm	0.0524 ppm	0.3120 ppm	-0.0001 ppm	0.0986 ppm
Concentration per Run 3	-0.0008 ppm	3.6109 ppm	0.0020 ppm	0.0522 ppm	0.3149 ppm	0.0010 ppm	0.0995 ppm
Concentration RSD	93.2 %	0.7 %	19.5 %	0.2 %	1.4 %	127.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3624 ppm	96.8892 %	106.2064 %	94.1181 %	103.5049 %	115.7676 %	105.3186 %
Concentration per Run 1	0.3638 ppm	96.7215 %	105.9876 %	94.5732 %	104.2459 %	115.5609 %	105.9227 %
Concentration per Run 2	0.3640 ppm	96.8151 %	106.6294 %	93.3266 %	103.3077 %	116.4259 %	104.4674 %
Concentration per Run 3	0.3594 ppm	97.1309 %	106.0021 %	94.4544 %	102.9612 %	115.3161 %	105.5656 %
Concentration RSD	0.7 %	0.2 %	0.3 %	0.7 %	0.6 %	0.5 %	0.7 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453720-02 WG1975485
Analysis started at: 9/25/2024 7:57:13 AM
Rack 1
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0030 ppm	0.0002 ppm	0.0196 ppm	0.0306 ppm	0.0000 ppm	12.5360 ppm
Concentration per Run 1	-0.0002 ppm	0.0043 ppm	0.0013 ppm	0.0213 ppm	0.0309 ppm	0.0000 ppm	12.7450 ppm
Concentration per Run 2	0.0001 ppm	0.0023 ppm	-0.0003 ppm	0.0194 ppm	0.0304 ppm	0.0000 ppm	12.3782 ppm
Concentration per Run 3	-0.0001 ppm	-0.0155 ppm	-0.0002 ppm	0.0183 ppm	0.0305 ppm	-0.0001 ppm	12.4849 ppm
Concentration RSD	213.6 %	365.4 %	378.5 %	7.6 %	0.9 %	168.2 %	1.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0013 ppm	0.0018 ppm	0.0133 ppm	1.1737 ppm	0.0017 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0012 ppm	0.0017 ppm	0.0130 ppm	1.2262 ppm	0.0027 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0012 ppm	0.0018 ppm	0.0131 ppm	1.1443 ppm	0.0026 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0015 ppm	0.0020 ppm	0.0137 ppm	1.1506 ppm	-0.0003 ppm
Concentration RSD	104.2 %	54.2 %	10.2 %	9.5 %	2.9 %	3.9 %	102.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	6.1137 ppm	0.0005 ppm	0.0001 ppm	16.9331 ppm	0.0006 ppm	0.0002 ppm	-0.0021 ppm
Concentration per Run 1	6.3059 ppm	0.0006 ppm	0.0000 ppm	17.1167 ppm	0.0002 ppm	0.0002 ppm	-0.0035 ppm
Concentration per Run 2	6.0881 ppm	0.0004 ppm	0.0005 ppm	16.7712 ppm	0.0005 ppm	-0.0005 ppm	-0.0022 ppm
Concentration per Run 3	5.9472 ppm	0.0005 ppm	-0.0001 ppm	16.9113 ppm	0.0011 ppm	0.0008 ppm	-0.0008 ppm
Concentration RSD	3.0 %	18.9 %	223.2 %	1.0 %	73.0 %	426.4 %	63.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0015 ppm	9.1538 ppm	-0.0014 ppm	0.0677 ppm	-0.0002 ppm	0.0005 ppm	0.0003 ppm
Concentration per Run 1	0.0015 ppm	9.4059 ppm	-0.0013 ppm	0.0688 ppm	-0.0003 ppm	0.0017 ppm	0.0002 ppm
Concentration per Run 2	0.0010 ppm	9.1332 ppm	-0.0015 ppm	0.0668 ppm	-0.0001 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	0.0020 ppm	8.9222 ppm	-0.0015 ppm	0.0676 ppm	-0.0003 ppm	-0.0004 ppm	0.0004 ppm
Concentration RSD	33.8 %	2.6 %	9.4 %	1.4 %	36.7 %	212.4 %	40.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0021 ppm	88.5607 %	102.4210 %	93.0023 %	93.2939 %	103.7548 %	96.4038 %
Concentration per Run 1	0.0022 ppm	85.7469 %	99.9684 %	92.2098 %	91.6204 %	101.8377 %	96.3970 %
Concentration per Run 2	0.0023 ppm	88.9330 %	104.8825 %	93.2557 %	93.6202 %	106.3404 %	96.6096 %
Concentration per Run 3	0.0019 ppm	91.0022 %	102.4120 %	93.5415 %	94.6412 %	103.0863 %	96.2047 %
Concentration RSD	10.4 %	3.0 %	2.4 %	0.8 %	1.6 %	2.2 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975485-3 WG1975485
Analysis started at: 9/25/2024 8:01:07 AM
Rack 1
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0560 ppm	2.0445 ppm	0.1228 ppm	1.0715 ppm	2.0893 ppm	0.0533 ppm	22.6790 ppm
Concentration per Run 1	0.0573 ppm	2.0597 ppm	0.1243 ppm	1.1081 ppm	2.0845 ppm	0.0534 ppm	22.8094 ppm
Concentration per Run 2	0.0557 ppm	2.0345 ppm	0.1223 ppm	1.0605 ppm	2.1010 ppm	0.0533 ppm	22.5932 ppm
Concentration per Run 3	0.0550 ppm	2.0392 ppm	0.1218 ppm	1.0461 ppm	2.0823 ppm	0.0534 ppm	22.6343 ppm
Concentration RSD	2.1 %	0.7 %	1.1 %	3.0 %	0.5 %	0.1 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0581 ppm	0.5417 ppm	0.2183 ppm	0.2752 ppm	1.0505 ppm	11.3889 ppm	0.0022 ppm
Concentration per Run 1	0.0602 ppm	0.5592 ppm	0.2251 ppm	0.2836 ppm	1.0466 ppm	11.5098 ppm	0.0030 ppm
Concentration per Run 2	0.0577 ppm	0.5386 ppm	0.2177 ppm	0.2733 ppm	1.0516 ppm	11.3243 ppm	0.0007 ppm
Concentration per Run 3	0.0563 ppm	0.5271 ppm	0.2122 ppm	0.2687 ppm	1.0531 ppm	11.3327 ppm	0.0029 ppm
Concentration RSD	3.4 %	3.0 %	3.0 %	2.8 %	0.3 %	0.9 %	59.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.6245 ppm	0.5232 ppm	0.9391 ppm	27.0180 ppm	0.5451 ppm	0.5472 ppm	0.4888 ppm
Concentration per Run 1	17.1823 ppm	0.5253 ppm	0.9702 ppm	27.0618 ppm	0.5637 ppm	0.5500 ppm	0.5066 ppm
Concentration per Run 2	16.5350 ppm	0.5216 ppm	0.9324 ppm	27.0796 ppm	0.5424 ppm	0.5466 ppm	0.4802 ppm
Concentration per Run 3	16.1563 ppm	0.5227 ppm	0.9145 ppm	26.9126 ppm	0.5293 ppm	0.5449 ppm	0.4796 ppm
Concentration RSD	3.1 %	0.4 %	3.0 %	0.3 %	3.2 %	0.5 %	3.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1267 ppm	9.9844 ppm	0.9836 ppm	1.0395 ppm	1.0583 ppm	0.1246 ppm	0.5533 ppm
Concentration per Run 1	0.1282 ppm	10.2922 ppm	1.0191 ppm	1.0400 ppm	1.0960 ppm	0.1270 ppm	0.5687 ppm
Concentration per Run 2	0.1269 ppm	9.9384 ppm	0.9731 ppm	1.0385 ppm	1.0474 ppm	0.1250 ppm	0.5505 ppm
Concentration per Run 3	0.1251 ppm	9.7227 ppm	0.9586 ppm	1.0401 ppm	1.0315 ppm	0.1217 ppm	0.5406 ppm
Concentration RSD	1.2 %	2.9 %	3.2 %	0.1 %	3.2 %	2.1 %	2.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5550 ppm	89.5220 %	102.4843 %	92.3384 %	91.9706 %	102.6519 %	95.3514 %
Concentration per Run 1	0.5793 ppm	86.5931 %	102.3935 %	91.5273 %	90.6258 %	102.9971 %	95.3466 %
Concentration per Run 2	0.5510 ppm	90.1056 %	102.7614 %	92.6049 %	92.2775 %	102.5713 %	95.3615 %
Concentration per Run 3	0.5347 ppm	91.8672 %	102.2981 %	92.8830 %	93.0084 %	102.3873 %	95.3462 %
Concentration RSD	4.1 %	3.0 %	0.2 %	0.8 %	1.3 %	0.3 %	0.0 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975485-4 WG1975485
Analysis started at: 9/25/2024 8:05:02 AM
Rack 1
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0557 ppm	2.0403 ppm	0.1250 ppm	1.0748 ppm	2.0894 ppm	0.0529 ppm	22.7183 ppm
Concentration per Run 1	0.0566 ppm	2.0506 ppm	0.1261 ppm	1.1009 ppm	2.0936 ppm	0.0532 ppm	22.6937 ppm
Concentration per Run 2	0.0557 ppm	2.0275 ppm	0.1246 ppm	1.0679 ppm	2.0847 ppm	0.0528 ppm	22.7024 ppm
Concentration per Run 3	0.0547 ppm	2.0429 ppm	0.1244 ppm	1.0556 ppm	2.0898 ppm	0.0528 ppm	22.7588 ppm
Concentration RSD	1.7 %	0.6 %	0.8 %	2.2 %	0.2 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0576 ppm	0.5353 ppm	0.2169 ppm	0.2721 ppm	1.0440 ppm	11.5164 ppm	0.0016 ppm
Concentration per Run 1	0.0588 ppm	0.5474 ppm	0.2218 ppm	0.2780 ppm	1.0483 ppm	11.5246 ppm	0.0026 ppm
Concentration per Run 2	0.0575 ppm	0.5323 ppm	0.2163 ppm	0.2706 ppm	1.0397 ppm	11.3869 ppm	0.0012 ppm
Concentration per Run 3	0.0564 ppm	0.5263 ppm	0.2127 ppm	0.2678 ppm	1.0439 ppm	11.6378 ppm	0.0011 ppm
Concentration RSD	2.2 %	2.0 %	2.1 %	1.9 %	0.4 %	1.1 %	49.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.6084 ppm	0.5222 ppm	0.9498 ppm	27.1511 ppm	0.5404 ppm	0.5552 ppm	0.4896 ppm
Concentration per Run 1	16.9988 ppm	0.5234 ppm	0.9691 ppm	27.1352 ppm	0.5536 ppm	0.5584 ppm	0.5045 ppm
Concentration per Run 2	16.5048 ppm	0.5206 ppm	0.9459 ppm	27.1417 ppm	0.5395 ppm	0.5571 ppm	0.4818 ppm
Concentration per Run 3	16.3216 ppm	0.5225 ppm	0.9344 ppm	27.1762 ppm	0.5280 ppm	0.5503 ppm	0.4825 ppm
Concentration RSD	2.1 %	0.3 %	1.9 %	0.1 %	2.4 %	0.8 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1289 ppm	9.8003 ppm	0.9948 ppm	1.0481 ppm	1.0665 ppm	0.1259 ppm	0.5494 ppm
Concentration per Run 1	0.1298 ppm	10.0218 ppm	1.0181 ppm	1.0529 ppm	1.0917 ppm	0.1254 ppm	0.5619 ppm
Concentration per Run 2	0.1275 ppm	9.7667 ppm	0.9886 ppm	1.0448 ppm	1.0608 ppm	0.1261 ppm	0.5454 ppm
Concentration per Run 3	0.1295 ppm	9.6123 ppm	0.9776 ppm	1.0465 ppm	1.0469 ppm	0.1261 ppm	0.5409 ppm
Concentration RSD	1.0 %	2.1 %	2.1 %	0.4 %	2.2 %	0.3 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5477 ppm	90.1666 %	102.6089 %	91.7536 %	92.3299 %	102.6144 %	94.5857 %
Concentration per Run 1	0.5590 ppm	88.5055 %	101.5764 %	90.7736 %	91.9530 %	102.0570 %	94.2573 %
Concentration per Run 2	0.5463 ppm	90.7357 %	103.3927 %	92.1223 %	92.7310 %	103.1326 %	94.8516 %
Concentration per Run 3	0.5378 ppm	91.2587 %	102.8575 %	92.3650 %	92.3058 %	102.6536 %	94.6481 %
Concentration RSD	1.9 %	1.6 %	0.9 %	0.9 %	0.4 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975485-5 WG1975485
Analysis started at: 9/25/2024 8:08:57 AM
Rack 1
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0545 ppm	2.1520 ppm	0.1303 ppm	1.1748 ppm	2.1606 ppm	0.0547 ppm	23.1762 ppm
Concentration per Run 1	0.0558 ppm	2.1767 ppm	0.1332 ppm	1.2129 ppm	2.1694 ppm	0.0551 ppm	23.3072 ppm
Concentration per Run 2	0.0542 ppm	2.1457 ppm	0.1281 ppm	1.1617 ppm	2.1695 ppm	0.0548 ppm	23.2566 ppm
Concentration per Run 3	0.0535 ppm	2.1335 ppm	0.1295 ppm	1.1500 ppm	2.1427 ppm	0.0543 ppm	22.9647 ppm
Concentration RSD	2.2 %	1.0 %	2.0 %	2.8 %	0.7 %	0.8 %	0.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0603 ppm	0.5606 ppm	0.2269 ppm	0.2859 ppm	1.0980 ppm	12.3598 ppm	0.0019 ppm
Concentration per Run 1	0.0624 ppm	0.5772 ppm	0.2336 ppm	0.2945 ppm	1.1016 ppm	12.4008 ppm	0.0025 ppm
Concentration per Run 2	0.0596 ppm	0.5565 ppm	0.2253 ppm	0.2843 ppm	1.1018 ppm	12.4143 ppm	0.0013 ppm
Concentration per Run 3	0.0589 ppm	0.5481 ppm	0.2219 ppm	0.2788 ppm	1.0907 ppm	12.2642 ppm	0.0020 ppm
Concentration RSD	3.1 %	2.7 %	2.7 %	2.8 %	0.6 %	0.7 %	30.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.3177 ppm	0.5410 ppm	1.0246 ppm	27.5297 ppm	0.5652 ppm	0.5799 ppm	0.4341 ppm
Concentration per Run 1	17.8515 ppm	0.5444 ppm	1.0507 ppm	27.6491 ppm	0.5819 ppm	0.5840 ppm	0.4430 ppm
Concentration per Run 2	17.1754 ppm	0.5421 ppm	1.0161 ppm	27.5820 ppm	0.5608 ppm	0.5797 ppm	0.4304 ppm
Concentration per Run 3	16.9263 ppm	0.5365 ppm	1.0070 ppm	27.3578 ppm	0.5529 ppm	0.5760 ppm	0.4289 ppm
Concentration RSD	2.8 %	0.7 %	2.2 %	0.6 %	2.6 %	0.7 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1340 ppm	10.0978 ppm	1.1042 ppm	1.1117 ppm	1.1524 ppm	0.1327 ppm	0.5755 ppm
Concentration per Run 1	0.1341 ppm	10.3829 ppm	1.1346 ppm	1.1183 ppm	1.1873 ppm	0.1344 ppm	0.5908 ppm
Concentration per Run 2	0.1349 ppm	10.0344 ppm	1.0985 ppm	1.1157 ppm	1.1407 ppm	0.1325 ppm	0.5717 ppm
Concentration per Run 3	0.1330 ppm	9.8759 ppm	1.0794 ppm	1.1012 ppm	1.1291 ppm	0.1312 ppm	0.5640 ppm
Concentration RSD	0.7 %	2.6 %	2.5 %	0.8 %	2.7 %	1.2 %	2.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5852 ppm	89.5686 %	101.6517 %	91.1696 %	92.0929 %	101.6713 %	94.1610 %
Concentration per Run 1	0.6059 ppm	87.2181 %	101.8406 %	90.9973 %	91.2500 %	102.3011 %	94.6860 %
Concentration per Run 2	0.5792 ppm	90.1159 %	100.9888 %	91.5956 %	92.4395 %	101.0466 %	94.6562 %
Concentration per Run 3	0.5704 ppm	91.3717 %	102.1256 %	90.9158 %	92.5893 %	101.6662 %	93.1409 %
Concentration RSD	3.2 %	2.4 %	0.6 %	0.4 %	0.8 %	0.6 %	0.9 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975485-6d5 WG1975485
Analysis started at: 9/25/2024 8:12:52 AM
Rack 1
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0055 ppm	0.0005 ppm	0.0063 ppm	0.0061 ppm	0.0000 ppm	2.4848 ppm
Concentration per Run 1	-0.0002 ppm	-0.0033 ppm	-0.0001 ppm	0.0066 ppm	0.0062 ppm	0.0000 ppm	2.4843 ppm
Concentration per Run 2	-0.0001 ppm	-0.0105 ppm	0.0003 ppm	0.0061 ppm	0.0061 ppm	0.0000 ppm	2.4865 ppm
Concentration per Run 3	0.0001 ppm	-0.0028 ppm	0.0012 ppm	0.0063 ppm	0.0060 ppm	0.0000 ppm	2.4838 ppm
Concentration RSD	181.7 %	77.9 %	156.0 %	4.1 %	1.7 %	82.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0004 ppm	0.0005 ppm	0.0010 ppm	0.0065 ppm	0.2150 ppm	0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0006 ppm	0.0007 ppm	0.0011 ppm	0.0081 ppm	0.2131 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0047 ppm	0.2035 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0009 ppm	0.0067 ppm	0.2286 ppm	0.0001 ppm
Concentration RSD	138.2 %	85.6 %	33.1 %	17.0 %	26.7 %	5.9 %	72.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1720 ppm	0.0002 ppm	0.0090 ppm	3.3906 ppm	0.0000 ppm	0.0001 ppm	0.0075 ppm
Concentration per Run 1	1.1970 ppm	0.0003 ppm	0.0092 ppm	3.3839 ppm	-0.0002 ppm	0.0000 ppm	0.0074 ppm
Concentration per Run 2	1.1697 ppm	0.0001 ppm	0.0087 ppm	3.4016 ppm	-0.0004 ppm	0.0002 ppm	0.0086 ppm
Concentration per Run 3	1.1493 ppm	0.0002 ppm	0.0092 ppm	3.3863 ppm	0.0007 ppm	0.0000 ppm	0.0065 ppm
Concentration RSD	2.0 %	55.8 %	3.2 %	0.3 %	1,380.3 %	200.9 %	13.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0004 ppm	1.7230 ppm	0.0078 ppm	0.0136 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm
Concentration per Run 1	-0.0014 ppm	1.7589 ppm	0.0081 ppm	0.0135 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 2	0.0014 ppm	1.7178 ppm	0.0073 ppm	0.0137 ppm	-0.0001 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 3	0.0012 ppm	1.6923 ppm	0.0080 ppm	0.0135 ppm	-0.0002 ppm	0.0004 ppm	0.0004 ppm
Concentration RSD	415.7 %	2.0 %	5.9 %	0.6 %	110.2 %	17.5 %	19.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	91.7128 %	101.5759 %	95.5633 %	93.6124 %	101.4229 %	96.1491 %
Concentration per Run 1	0.0006 ppm	89.6662 %	102.0585 %	95.3143 %	93.0493 %	102.1421 %	96.5017 %
Concentration per Run 2	0.0007 ppm	92.1000 %	101.9848 %	95.9823 %	93.6226 %	101.8747 %	96.3632 %
Concentration per Run 3	0.0008 ppm	93.3723 %	100.6844 %	95.3935 %	94.1653 %	100.2519 %	95.5824 %
Concentration RSD	16.3 %	2.1 %	0.8 %	0.4 %	0.6 %	1.0 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 8:16:48 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5035 ppm	0.4845 ppm	0.4865 ppm	0.4987 ppm	0.5023 ppm	0.5180 ppm	0.4937 ppm
Concentration per Run 1	0.5087 ppm	0.4789 ppm	0.4877 ppm	0.5032 ppm	0.5023 ppm	0.5165 ppm	0.4903 ppm
Concentration per Run 2	0.5015 ppm	0.4915 ppm	0.4871 ppm	0.4986 ppm	0.5022 ppm	0.5201 ppm	0.4966 ppm
Concentration per Run 3	0.5004 ppm	0.4832 ppm	0.4847 ppm	0.4942 ppm	0.5024 ppm	0.5173 ppm	0.4942 ppm
Recovery Percentage 1	100.708 %	96.908 %	97.300 %	99.735 %	100.458 %	103.591 %	98.737 %
Concentration RSD	0.9 %	1.3 %	0.3 %	0.9 %	0.0 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5148 ppm	0.5109 ppm	0.5043 ppm	0.4895 ppm	0.5087 ppm	5.0629 ppm	0.4750 ppm
Concentration per Run 1	0.5199 ppm	0.5162 ppm	0.5096 ppm	0.4934 ppm	0.5108 ppm	5.0765 ppm	0.4771 ppm
Concentration per Run 2	0.5142 ppm	0.5100 ppm	0.5018 ppm	0.4891 ppm	0.5064 ppm	5.0774 ppm	0.4752 ppm
Concentration per Run 3	0.5102 ppm	0.5066 ppm	0.5014 ppm	0.4860 ppm	0.5088 ppm	5.0348 ppm	0.4728 ppm
Recovery Percentage 1	102.952 %	102.185 %	100.855 %	97.896 %	101.736 %	101.258 %	95.006 %
Concentration RSD	1.0 %	1.0 %	0.9 %	0.8 %	0.4 %	0.5 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4966 ppm	0.5017 ppm	0.5035 ppm	10.0497 ppm	0.5102 ppm	0.5004 ppm	0.5050 ppm
Concentration per Run 1	0.5012 ppm	0.5010 ppm	0.5070 ppm	10.0616 ppm	0.5179 ppm	0.5010 ppm	0.5118 ppm
Concentration per Run 2	0.4939 ppm	0.5034 ppm	0.5032 ppm	10.0919 ppm	0.5069 ppm	0.5009 ppm	0.5018 ppm
Concentration per Run 3	0.4946 ppm	0.5006 ppm	0.5003 ppm	9.9956 ppm	0.5057 ppm	0.4993 ppm	0.5015 ppm
Recovery Percentage 1	99.311 %	100.337 %	100.695 %	100.497 %	102.031 %	100.080 %	101.003 %
Concentration RSD	0.8 %	0.3 %	0.7 %	0.5 %	1.3 %	0.2 %	1.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4955 ppm	5.5728 ppm	0.4927 ppm	0.4859 ppm	0.5047 ppm	0.5040 ppm	0.5046 ppm
Concentration per Run 1	0.4958 ppm	5.6127 ppm	0.4969 ppm	0.4850 ppm	0.5089 ppm	0.5061 ppm	0.5089 ppm
Concentration per Run 2	0.4943 ppm	5.5712 ppm	0.4942 ppm	0.4862 ppm	0.5056 ppm	0.5034 ppm	0.5027 ppm
Concentration per Run 3	0.4965 ppm	5.5344 ppm	0.4870 ppm	0.4866 ppm	0.4997 ppm	0.5024 ppm	0.5023 ppm
Recovery Percentage 1	99.107 %	106.148 %	98.542 %	97.188 %	100.949 %	100.792 %	100.927 %
Concentration RSD	0.2 %	0.7 %	1.0 %	0.2 %	0.9 %	0.4 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5104 ppm	96.0990 %	103.1488 %	97.4516 %	92.6651 %	100.4114 %	95.2880 %
Concentration per Run 1	0.5178 ppm	94.9233 %	103.1707 %	97.2155 %	92.0270 %	100.2729 %	94.9005 %
Concentration per Run 2	0.5075 ppm	96.5707 %	103.2884 %	97.4824 %	93.3137 %	100.7083 %	95.5368 %
Concentration per Run 3	0.5060 ppm	96.8030 %	102.9873 %	97.6567 %	92.6547 %	100.2530 %	95.4268 %
Recovery Percentage 1	102.088 %						
Concentration RSD	1.3 %	1.1 %	0.1 %	0.2 %	0.7 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 8:20:44 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0125 ppm	0.0002 ppm	0.0013 ppm	-0.0001 ppm	0.0000 ppm	-0.0067 ppm
Concentration per Run 1	0.0001 ppm	-0.0158 ppm	-0.0002 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	-0.0054 ppm
Concentration per Run 2	0.0003 ppm	-0.0107 ppm	0.0004 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	-0.0071 ppm
Concentration per Run 3	0.0001 ppm	-0.0111 ppm	0.0004 ppm	0.0009 ppm	-0.0001 ppm	-0.0001 ppm	-0.0075 ppm
Recovery Percentage 1	2.668 %	-12.529 %	6.485 %	4.407 %	-0.561 %	-1.142 %	-6.662 %
Concentration RSD	76.4 %	22.7 %	194.8 %	30.3 %	211.8 %	70.6 %	16.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0009 ppm	0.0060 ppm	-0.0314 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	0.0005 ppm	0.0009 ppm	0.0058 ppm	-0.0387 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0055 ppm	-0.0307 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0011 ppm	0.0069 ppm	-0.0246 ppm	0.0022 ppm
Recovery Percentage 1	-0.353 %	0.914 %	4.169 %	9.209 %	12.081 %	-1.254 %	6.370 %
Concentration RSD	264.5 %	278.9 %	26.6 %	19.0 %	12.1 %	22.6 %	206.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0028 ppm	-0.0146 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	0.0001 ppm	0.0029 ppm	-0.0144 ppm	0.0001 ppm	0.0002 ppm	-0.0007 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	0.0027 ppm	-0.0142 ppm	0.0001 ppm	0.0006 ppm	0.0020 ppm
Concentration per Run 3	-0.0018 ppm	0.0000 ppm	0.0028 ppm	-0.0152 ppm	-0.0002 ppm	0.0005 ppm	-0.0012 ppm
Recovery Percentage 1	-0.492 %	1.475 %	5.659 %	-0.731 %	-0.110 %	4.305 %	0.004 %
Concentration RSD	222.3 %	98.6 %	3.4 %	3.7 %	552.6 %	46.9 %	91,624.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	0.0025 ppm	0.0005 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0024 ppm	0.0046 ppm	0.0015 ppm	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 2	0.0039 ppm	0.0008 ppm	-0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	0.0019 ppm	0.0020 ppm	0.0003 ppm	0.0002 ppm	-0.0003 ppm	0.0003 ppm	0.0001 ppm
Recovery Percentage 1	27.294 %	0.500 %	1.034 %	1.278 %	-2.599 %	0.616 %	1.677 %
Concentration RSD	37.1 %	78.0 %	165.5 %	43.6 %	43.0 %	253.2 %	20.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	92.5233 %	100.7642 %	95.1148 %	94.4721 %	101.4054 %	96.2690 %
Concentration per Run 1	0.0006 ppm	90.2437 %	101.3148 %	94.9037 %	93.3392 %	101.9309 %	96.4094 %
Concentration per Run 2	0.0005 ppm	93.0730 %	100.2186 %	95.0185 %	94.8360 %	101.0328 %	96.2685 %
Concentration per Run 3	0.0004 ppm	94.2531 %	100.7590 %	95.4222 %	95.2411 %	101.2525 %	96.1290 %
Recovery Percentage 1	9.834 %						
Concentration RSD	12.2 %	2.2 %	0.5 %	0.3 %	1.1 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453720-01 WG1975485
Analysis started at: 9/25/2024 8:24:40 AM
Rack 1
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0461 ppm	0.0011 ppm	0.0100 ppm	0.0762 ppm	0.0001 ppm	8.4517 ppm
Concentration per Run 1	-0.0002 ppm	0.0503 ppm	0.0003 ppm	0.0108 ppm	0.0768 ppm	0.0001 ppm	8.4821 ppm
Concentration per Run 2	0.0001 ppm	0.0400 ppm	0.0016 ppm	0.0092 ppm	0.0764 ppm	0.0001 ppm	8.4504 ppm
Concentration per Run 3	-0.0002 ppm	0.0480 ppm	0.0014 ppm	0.0099 ppm	0.0755 ppm	0.0001 ppm	8.4226 ppm
Concentration RSD	235.5 %	11.8 %	65.8 %	8.1 %	0.8 %	31.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0025 ppm	0.0077 ppm	1.0550 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0026 ppm	0.0080 ppm	1.0729 ppm	-0.0008 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0024 ppm	0.0071 ppm	1.0649 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0026 ppm	0.0082 ppm	1.0273 ppm	0.0016 ppm
Concentration RSD	98.2 %	86.2 %	132.7 %	5.1 %	7.7 %	2.3 %	203.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.6003 ppm	0.1122 ppm	0.0011 ppm	7.5000 ppm	0.0003 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	2.6608 ppm	0.1128 ppm	0.0013 ppm	7.5803 ppm	0.0002 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 2	2.5985 ppm	0.1123 ppm	0.0011 ppm	7.5565 ppm	0.0003 ppm	0.0004 ppm	-0.0016 ppm
Concentration per Run 3	2.5416 ppm	0.1114 ppm	0.0009 ppm	7.3632 ppm	0.0004 ppm	-0.0005 ppm	0.0003 ppm
Concentration RSD	2.3 %	0.7 %	18.1 %	1.6 %	30.0 %	393.1 %	409.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	4.4045 ppm	-0.0009 ppm	0.0298 ppm	-0.0005 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	4.5051 ppm	-0.0002 ppm	0.0296 ppm	-0.0006 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 2	-0.0003 ppm	4.4108 ppm	-0.0015 ppm	0.0298 ppm	-0.0005 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	4.2976 ppm	-0.0010 ppm	0.0299 ppm	-0.0003 ppm	0.0011 ppm	0.0001 ppm
Concentration RSD	333.7 %	2.4 %	74.1 %	0.4 %	26.9 %	20.0 %	34.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0027 ppm	88.8009 %	100.3102 %	93.0620 %	94.0277 %	102.7294 %	96.5332 %
Concentration per Run 1	0.0029 ppm	86.9642 %	99.3682 %	92.8816 %	93.4258 %	102.0788 %	97.1809 %
Concentration per Run 2	0.0027 ppm	88.5685 %	100.1954 %	92.7286 %	93.7415 %	102.5144 %	96.1694 %
Concentration per Run 3	0.0026 ppm	90.8701 %	101.3671 %	93.5759 %	94.9157 %	103.5949 %	96.2493 %
Concentration RSD	6.1 %	2.2 %	1.0 %	0.5 %	0.8 %	0.8 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453720-03 WG1975485
Analysis started at: 9/25/2024 8:28:36 AM
Rack 1
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0403 ppm	-0.0001 ppm	0.0103 ppm	0.0755 ppm	0.0001 ppm	8.3531 ppm
Concentration per Run 1	-0.0002 ppm	0.0521 ppm	-0.0011 ppm	0.0097 ppm	0.0760 ppm	0.0001 ppm	8.3736 ppm
Concentration per Run 2	-0.0001 ppm	0.0318 ppm	0.0017 ppm	0.0111 ppm	0.0752 ppm	0.0001 ppm	8.3690 ppm
Concentration per Run 3	-0.0001 ppm	0.0371 ppm	-0.0008 ppm	0.0100 ppm	0.0754 ppm	0.0001 ppm	8.3169 ppm
Concentration RSD	43.7 %	26.1 %	2,482.2 %	7.0 %	0.5 %	11.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0023 ppm	0.0045 ppm	1.0651 ppm	0.0009 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	-0.0003 ppm	0.0025 ppm	0.0042 ppm	1.1071 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0022 ppm	0.0043 ppm	1.0539 ppm	0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	-0.0003 ppm	0.0022 ppm	0.0051 ppm	1.0344 ppm	0.0016 ppm
Concentration RSD	49.3 %	27.4 %	22.9 %	7.8 %	10.7 %	3.5 %	84.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.5603 ppm	0.1108 ppm	0.0003 ppm	7.4405 ppm	0.0001 ppm	0.0005 ppm	-0.0013 ppm
Concentration per Run 1	2.6346 ppm	0.1114 ppm	0.0005 ppm	7.4521 ppm	0.0007 ppm	0.0013 ppm	-0.0016 ppm
Concentration per Run 2	2.5349 ppm	0.1108 ppm	0.0002 ppm	7.4239 ppm	-0.0004 ppm	0.0011 ppm	-0.0030 ppm
Concentration per Run 3	2.5115 ppm	0.1101 ppm	0.0001 ppm	7.4454 ppm	0.0002 ppm	-0.0011 ppm	0.0007 ppm
Concentration RSD	2.6 %	0.6 %	67.0 %	0.2 %	401.0 %	287.4 %	146.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	4.3306 ppm	-0.0018 ppm	0.0296 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0003 ppm	4.4405 ppm	-0.0025 ppm	0.0298 ppm	-0.0002 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0006 ppm	4.3117 ppm	-0.0016 ppm	0.0293 ppm	-0.0004 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0024 ppm	4.2397 ppm	-0.0012 ppm	0.0296 ppm	-0.0002 ppm	-0.0003 ppm	0.0002 ppm
Concentration RSD	146.2 %	2.3 %	36.2 %	0.8 %	44.8 %	288.8 %	86.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	89.6055 %	100.9318 %	94.0901 %	94.2891 %	102.9111 %	97.0709 %
Concentration per Run 1	0.0017 ppm	87.1636 %	100.7635 %	93.3397 %	93.2934 %	102.7770 %	96.9723 %
Concentration per Run 2	0.0016 ppm	90.4521 %	100.3020 %	93.8235 %	94.9236 %	102.5124 %	96.8296 %
Concentration per Run 3	0.0013 ppm	91.2007 %	101.7301 %	95.1070 %	94.6502 %	103.4440 %	97.4108 %
Concentration RSD	11.7 %	2.4 %	0.7 %	1.0 %	0.9 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453720-04 WG1975485
Analysis started at: 9/25/2024 8:32:32 AM
Rack 1
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0022 ppm	0.0011 ppm	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0125 ppm
Concentration per Run 1	-0.0001 ppm	0.0049 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0113 ppm
Concentration per Run 2	-0.0006 ppm	-0.0019 ppm	0.0031 ppm	0.0015 ppm	0.0005 ppm	0.0000 ppm	0.0117 ppm
Concentration per Run 3	0.0002 ppm	0.0035 ppm	0.0002 ppm	0.0015 ppm	0.0006 ppm	0.0000 ppm	0.0146 ppm
Concentration RSD	236.3 %	164.3 %	168.3 %	56.7 %	36.1 %	96.8 %	14.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0009 ppm	0.0019 ppm	0.0055 ppm	0.0030 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	-0.0007 ppm	0.0021 ppm	0.0060 ppm	0.0122 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0002 ppm	-0.0011 ppm	0.0017 ppm	0.0050 ppm	0.0086 ppm	-0.0005 ppm
Concentration per Run 3	-0.0001 ppm	-0.0004 ppm	-0.0009 ppm	0.0018 ppm	0.0056 ppm	-0.0118 ppm	0.0008 ppm
Concentration RSD	158.7 %	681.2 %	17.9 %	12.2 %	8.9 %	431.5 %	249.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0046 ppm	0.0002 ppm	0.0000 ppm	0.0036 ppm	-0.0007 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 1	0.0057 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	-0.0004 ppm	-0.0002 ppm	-0.0029 ppm
Concentration per Run 2	0.0054 ppm	0.0003 ppm	0.0005 ppm	0.0062 ppm	-0.0009 ppm	-0.0002 ppm	-0.0010 ppm
Concentration per Run 3	0.0027 ppm	0.0002 ppm	-0.0004 ppm	0.0043 ppm	-0.0008 ppm	0.0004 ppm	-0.0027 ppm
Concentration RSD	35.8 %	24.6 %	1,303.3 %	86.2 %	34.0 %	1,388.7 %	49.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	0.0205 ppm	-0.0009 ppm	0.0002 ppm	-0.0001 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 1	0.0007 ppm	0.0210 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm	0.0001 ppm
Concentration per Run 2	0.0021 ppm	0.0196 ppm	-0.0010 ppm	0.0002 ppm	-0.0002 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0007 ppm	0.0210 ppm	-0.0013 ppm	0.0001 ppm	-0.0001 ppm	0.0011 ppm	0.0002 ppm
Concentration RSD	66.8 %	4.0 %	45.6 %	53.0 %	56.9 %	40.5 %	273.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	88.5607 %	100.3348 %	93.7899 %	94.3620 %	103.3911 %	97.5673 %
Concentration per Run 1	0.0014 ppm	86.8033 %	99.3848 %	93.3902 %	94.1441 %	103.1814 %	98.1630 %
Concentration per Run 2	0.0013 ppm	88.9153 %	100.1998 %	93.9898 %	94.5729 %	103.0922 %	97.5217 %
Concentration per Run 3	0.0013 ppm	89.9634 %	101.4198 %	93.9898 %	94.3688 %	103.8998 %	97.0173 %
Concentration RSD	2.5 %	1.8 %	1.0 %	0.4 %	0.2 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453720-06 WG1975485
Analysis started at: 9/25/2024 8:36:29 AM
Rack 1
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0021 ppm	0.0000 ppm	0.0207 ppm	0.0482 ppm	0.0000 ppm	15.7978 ppm
Concentration per Run 1	-0.0002 ppm	-0.0047 ppm	-0.0001 ppm	0.0208 ppm	0.0483 ppm	0.0000 ppm	15.8908 ppm
Concentration per Run 2	-0.0004 ppm	0.0018 ppm	-0.0007 ppm	0.0212 ppm	0.0482 ppm	-0.0001 ppm	15.7787 ppm
Concentration per Run 3	0.0004 ppm	-0.0035 ppm	0.0008 ppm	0.0200 ppm	0.0480 ppm	0.0000 ppm	15.7239 ppm
Concentration RSD	537.5 %	162.9 %	18,674.3 %	2.9 %	0.3 %	167.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0017 ppm	0.0016 ppm	1.3137 ppm	0.0018 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	0.0005 ppm	0.0017 ppm	0.0013 ppm	1.3399 ppm	0.0027 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0018 ppm	0.0012 ppm	1.3027 ppm	0.0013 ppm
Concentration per Run 3	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0015 ppm	0.0022 ppm	1.2984 ppm	0.0014 ppm
Concentration RSD	42.6 %	102.1 %	46.8 %	8.9 %	34.9 %	1.7 %	41.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.6242 ppm	0.0002 ppm	0.0000 ppm	19.4238 ppm	0.0004 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 1	7.7675 ppm	0.0002 ppm	0.0003 ppm	19.3881 ppm	0.0009 ppm	0.0011 ppm	-0.0020 ppm
Concentration per Run 2	7.6263 ppm	0.0001 ppm	-0.0003 ppm	19.4386 ppm	0.0007 ppm	-0.0002 ppm	0.0017 ppm
Concentration per Run 3	7.4787 ppm	0.0002 ppm	0.0001 ppm	19.4446 ppm	-0.0003 ppm	0.0013 ppm	-0.0011 ppm
Concentration RSD	1.9 %	25.2 %	1,275.3 %	0.2 %	156.0 %	106.2 %	406.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	10.5160 ppm	-0.0018 ppm	0.0904 ppm	-0.0002 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 1	0.0012 ppm	10.7535 ppm	-0.0016 ppm	0.0911 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0003 ppm	10.4962 ppm	-0.0020 ppm	0.0902 ppm	-0.0003 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0022 ppm	10.2982 ppm	-0.0018 ppm	0.0898 ppm	-0.0003 ppm	0.0015 ppm	0.0005 ppm
Concentration RSD	78.1 %	2.2 %	8.5 %	0.7 %	32.1 %	140.6 %	75.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	87.7127 %	100.1395 %	92.3311 %	92.3027 %	101.7162 %	95.6856 %
Concentration per Run 1	0.0012 ppm	86.3253 %	100.4783 %	92.0491 %	92.3806 %	102.5284 %	96.0680 %
Concentration per Run 2	0.0010 ppm	87.5404 %	98.3281 %	91.6726 %	92.1136 %	99.7172 %	95.0504 %
Concentration per Run 3	0.0012 ppm	89.2725 %	101.6120 %	93.2716 %	92.4139 %	102.9031 %	95.9385 %
Concentration RSD	9.8 %	1.7 %	1.7 %	0.9 %	0.2 %	1.7 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453720-07 WG1975485
Analysis started at: 9/25/2024 8:40:25 AM
Rack 1
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	-0.0071 ppm	0.0005 ppm	0.0177 ppm	0.0157 ppm	0.0000 ppm	20.9958 ppm
Concentration per Run 1	0.0004 ppm	-0.0131 ppm	-0.0010 ppm	0.0180 ppm	0.0158 ppm	0.0000 ppm	20.9808 ppm
Concentration per Run 2	0.0001 ppm	-0.0020 ppm	0.0003 ppm	0.0167 ppm	0.0156 ppm	0.0000 ppm	21.0198 ppm
Concentration per Run 3	0.0000 ppm	-0.0062 ppm	0.0022 ppm	0.0184 ppm	0.0157 ppm	0.0000 ppm	20.9869 ppm
Concentration RSD	123.9 %	78.8 %	333.0 %	5.0 %	0.8 %	4,586.2 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0026 ppm	0.0088 ppm	0.8143 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	-0.0001 ppm	0.0027 ppm	0.0097 ppm	0.8107 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0028 ppm	0.0081 ppm	0.8095 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0024 ppm	0.0087 ppm	0.8226 ppm	-0.0001 ppm
Concentration RSD	196.0 %	36.4 %	129.4 %	7.3 %	9.2 %	0.9 %	160.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	4.1947 ppm	0.0003 ppm	0.0000 ppm	2.9384 ppm	0.0001 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 1	4.3056 ppm	0.0003 ppm	0.0003 ppm	2.9515 ppm	0.0002 ppm	0.0005 ppm	-0.0035 ppm
Concentration per Run 2	4.1753 ppm	0.0004 ppm	-0.0003 ppm	2.9339 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 3	4.1031 ppm	0.0002 ppm	0.0001 ppm	2.9297 ppm	0.0002 ppm	0.0000 ppm	0.0014 ppm
Concentration RSD	2.4 %	40.9 %	722.8 %	0.4 %	91.7 %	420.9 %	463.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	4.1477 ppm	-0.0016 ppm	0.0613 ppm	-0.0002 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 1	0.0009 ppm	4.2746 ppm	-0.0016 ppm	0.0614 ppm	-0.0002 ppm	0.0011 ppm	0.0005 ppm
Concentration per Run 2	0.0018 ppm	4.1220 ppm	-0.0022 ppm	0.0611 ppm	-0.0001 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 3	0.0014 ppm	4.0465 ppm	-0.0011 ppm	0.0614 ppm	-0.0004 ppm	-0.0005 ppm	0.0003 ppm
Concentration RSD	33.4 %	2.8 %	33.1 %	0.3 %	63.5 %	167.0 %	22.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0026 ppm	88.1271 %	100.4992 %	92.1569 %	93.2086 %	103.0034 %	95.7766 %
Concentration per Run 1	0.0026 ppm	86.1466 %	100.6267 %	91.5316 %	92.8214 %	103.3924 %	95.6618 %
Concentration per Run 2	0.0026 ppm	88.2938 %	100.7324 %	92.0675 %	93.2250 %	103.1948 %	95.8365 %
Concentration per Run 3	0.0026 ppm	89.9408 %	100.1384 %	92.8715 %	93.5794 %	102.4229 %	95.8315 %
Concentration RSD	1.1 %	2.2 %	0.3 %	0.7 %	0.4 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453720-08 WG1975485
Analysis started at: 9/25/2024 8:44:23 AM
Rack 1
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0007 ppm	-0.0003 ppm	0.0154 ppm	0.0622 ppm	0.0000 ppm	8.5815 ppm
Concentration per Run 1	-0.0006 ppm	-0.0031 ppm	-0.0009 ppm	0.0158 ppm	0.0627 ppm	0.0000 ppm	8.6190 ppm
Concentration per Run 2	-0.0002 ppm	0.0094 ppm	-0.0006 ppm	0.0152 ppm	0.0624 ppm	0.0000 ppm	8.5684 ppm
Concentration per Run 3	0.0003 ppm	-0.0041 ppm	0.0006 ppm	0.0152 ppm	0.0616 ppm	0.0000 ppm	8.5571 ppm
Concentration RSD	268.4 %	1,047.3 %	251.1 %	2.1 %	0.9 %	359.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0006 ppm	-0.0002 ppm	0.0026 ppm	0.0073 ppm	1.3259 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	-0.0001 ppm	0.0026 ppm	0.0064 ppm	1.3549 ppm	-0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0005 ppm	-0.0003 ppm	0.0030 ppm	0.0066 ppm	1.3290 ppm	-0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	-0.0003 ppm	0.0024 ppm	0.0090 ppm	1.2938 ppm	0.0009 ppm
Concentration RSD	178.3 %	19.0 %	54.5 %	11.2 %	19.9 %	2.3 %	401.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.7214 ppm	0.0235 ppm	-0.0002 ppm	48.2085 ppm	-0.0003 ppm	0.0000 ppm	-0.0025 ppm
Concentration per Run 1	2.7803 ppm	0.0235 ppm	-0.0003 ppm	48.3064 ppm	-0.0004 ppm	-0.0004 ppm	-0.0041 ppm
Concentration per Run 2	2.7233 ppm	0.0234 ppm	-0.0002 ppm	48.3044 ppm	-0.0003 ppm	0.0010 ppm	-0.0004 ppm
Concentration per Run 3	2.6607 ppm	0.0236 ppm	-0.0001 ppm	48.0147 ppm	-0.0002 ppm	-0.0005 ppm	-0.0031 ppm
Concentration RSD	2.2 %	0.4 %	75.7 %	0.3 %	35.0 %	4,270.5 %	76.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	5.7763 ppm	-0.0017 ppm	0.0402 ppm	-0.0001 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 1	-0.0015 ppm	5.8974 ppm	-0.0025 ppm	0.0405 ppm	-0.0001 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 2	0.0022 ppm	5.7822 ppm	-0.0012 ppm	0.0399 ppm	-0.0002 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0026 ppm	5.6493 ppm	-0.0013 ppm	0.0400 ppm	0.0002 ppm	-0.0004 ppm	0.0005 ppm
Concentration RSD	201.8 %	2.1 %	43.3 %	0.8 %	361.8 %	81.0 %	44.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0025 ppm	88.7822 %	100.7364 %	92.9717 %	92.8366 %	102.1758 %	95.9361 %
Concentration per Run 1	0.0026 ppm	86.9341 %	100.2770 %	92.3584 %	92.2792 %	102.1169 %	96.1372 %
Concentration per Run 2	0.0026 ppm	88.2432 %	100.6622 %	93.1375 %	92.1700 %	101.7989 %	95.9595 %
Concentration per Run 3	0.0024 ppm	91.1692 %	101.2699 %	93.4191 %	94.0606 %	102.6116 %	95.7114 %
Concentration RSD	5.3 %	2.4 %	0.5 %	0.6 %	1.1 %	0.4 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453720-09 WG1975485
Analysis started at: 9/25/2024 8:48:20 AM
Rack 1
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0033 ppm	-0.0005 ppm	0.0158 ppm	0.0378 ppm	0.0000 ppm	13.8478 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0008 ppm	0.0170 ppm	0.0382 ppm	0.0000 ppm	13.9895 ppm
Concentration per Run 2	0.0002 ppm	-0.0040 ppm	-0.0008 ppm	0.0164 ppm	0.0376 ppm	0.0000 ppm	13.7752 ppm
Concentration per Run 3	-0.0001 ppm	-0.0062 ppm	0.0003 ppm	0.0140 ppm	0.0377 ppm	0.0000 ppm	13.7786 ppm
Concentration RSD	370.3 %	98.3 %	136.2 %	10.1 %	0.8 %	309.5 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0005 ppm	0.0030 ppm	0.0019 ppm	0.0031 ppm	1.1342 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0029 ppm	0.0018 ppm	0.0029 ppm	1.1850 ppm	0.0016 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0033 ppm	0.0021 ppm	0.0033 ppm	1.1059 ppm	0.0021 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0028 ppm	0.0020 ppm	0.0031 ppm	1.1118 ppm	0.0034 ppm
Concentration RSD	198.0 %	56.3 %	8.1 %	7.2 %	6.8 %	3.9 %	39.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.8406 ppm	0.0007 ppm	0.0001 ppm	14.2800 ppm	0.0043 ppm	0.0003 ppm	-0.0013 ppm
Concentration per Run 1	6.0063 ppm	0.0007 ppm	-0.0002 ppm	14.4516 ppm	0.0046 ppm	-0.0004 ppm	-0.0012 ppm
Concentration per Run 2	5.8111 ppm	0.0007 ppm	0.0001 ppm	14.1033 ppm	0.0041 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	5.7045 ppm	0.0006 ppm	0.0004 ppm	14.2850 ppm	0.0043 ppm	0.0010 ppm	-0.0028 ppm
Concentration RSD	2.6 %	11.9 %	290.1 %	1.2 %	5.6 %	261.4 %	102.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	10.7789 ppm	-0.0014 ppm	0.0799 ppm	-0.0004 ppm	-0.0003 ppm	0.0005 ppm
Concentration per Run 1	0.0008 ppm	11.0655 ppm	-0.0017 ppm	0.0799 ppm	-0.0004 ppm	-0.0013 ppm	0.0006 ppm
Concentration per Run 2	0.0018 ppm	10.7862 ppm	-0.0015 ppm	0.0800 ppm	-0.0004 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0008 ppm	10.4850 ppm	-0.0010 ppm	0.0797 ppm	-0.0004 ppm	-0.0003 ppm	0.0007 ppm
Concentration RSD	208.5 %	2.7 %	28.8 %	0.2 %	6.6 %	317.9 %	61.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0115 ppm	88.5934 %	100.0580 %	92.3421 %	92.6283 %	101.9804 %	95.7113 %
Concentration per Run 1	0.0119 ppm	85.8222 %	99.3445 %	91.7969 %	90.8840 %	101.3256 %	96.3220 %
Concentration per Run 2	0.0115 ppm	89.5029 %	100.5101 %	92.4632 %	93.6424 %	102.7974 %	95.3223 %
Concentration per Run 3	0.0110 ppm	90.4551 %	100.3194 %	92.7662 %	93.3584 %	101.8181 %	95.4895 %
Concentration RSD	4.3 %	2.8 %	0.6 %	0.5 %	1.6 %	0.7 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 8:52:18 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4986 ppm	0.4828 ppm	0.4816 ppm	0.4938 ppm	0.5014 ppm	0.5155 ppm	0.4934 ppm
Concentration per Run 1	0.5023 ppm	0.4868 ppm	0.4831 ppm	0.4970 ppm	0.5034 ppm	0.5158 ppm	0.4973 ppm
Concentration per Run 2	0.4972 ppm	0.4792 ppm	0.4801 ppm	0.4932 ppm	0.5016 ppm	0.5153 ppm	0.4918 ppm
Concentration per Run 3	0.4964 ppm	0.4825 ppm	0.4815 ppm	0.4911 ppm	0.4994 ppm	0.5154 ppm	0.4911 ppm
Recovery Percentage 1	99.728 %	96.564 %	96.319 %	98.755 %	100.288 %	103.105 %	98.682 %
Concentration RSD	0.6 %	0.8 %	0.3 %	0.6 %	0.4 %	0.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5094 ppm	0.5074 ppm	0.4974 ppm	0.4879 ppm	0.5109 ppm	5.2084 ppm	0.4885 ppm
Concentration per Run 1	0.5153 ppm	0.5131 ppm	0.5021 ppm	0.4901 ppm	0.5138 ppm	5.1989 ppm	0.4918 ppm
Concentration per Run 2	0.5093 ppm	0.5063 ppm	0.4977 ppm	0.4881 ppm	0.5097 ppm	5.2621 ppm	0.4874 ppm
Concentration per Run 3	0.5037 ppm	0.5028 ppm	0.4925 ppm	0.4856 ppm	0.5091 ppm	5.1643 ppm	0.4863 ppm
Recovery Percentage 1	101.882 %	101.475 %	99.482 %	97.585 %	102.176 %	104.168 %	97.697 %
Concentration RSD	1.1 %	1.0 %	1.0 %	0.5 %	0.5 %	1.0 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4914 ppm	0.5010 ppm	0.4962 ppm	10.0342 ppm	0.5066 ppm	0.4988 ppm	0.4994 ppm
Concentration per Run 1	0.4979 ppm	0.5031 ppm	0.4973 ppm	10.0192 ppm	0.5120 ppm	0.4992 ppm	0.5002 ppm
Concentration per Run 2	0.4905 ppm	0.5003 ppm	0.4968 ppm	10.0900 ppm	0.5070 ppm	0.4984 ppm	0.5035 ppm
Concentration per Run 3	0.4858 ppm	0.4997 ppm	0.4945 ppm	9.9936 ppm	0.5009 ppm	0.4989 ppm	0.4944 ppm
Recovery Percentage 1	98.287 %	100.206 %	99.239 %	100.342 %	101.324 %	99.764 %	99.879 %
Concentration RSD	1.2 %	0.4 %	0.3 %	0.5 %	1.1 %	0.1 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4919 ppm	5.5429 ppm	0.4838 ppm	0.4847 ppm	0.5028 ppm	0.4950 ppm	0.4995 ppm
Concentration per Run 1	0.4939 ppm	5.5760 ppm	0.4882 ppm	0.4877 ppm	0.5070 ppm	0.4940 ppm	0.5031 ppm
Concentration per Run 2	0.4927 ppm	5.5380 ppm	0.4843 ppm	0.4822 ppm	0.5015 ppm	0.4941 ppm	0.4988 ppm
Concentration per Run 3	0.4891 ppm	5.5146 ppm	0.4790 ppm	0.4843 ppm	0.4999 ppm	0.4967 ppm	0.4964 ppm
Recovery Percentage 1	98.381 %	105.579 %	96.766 %	96.949 %	100.560 %	98.993 %	99.891 %
Concentration RSD	0.5 %	0.6 %	1.0 %	0.6 %	0.7 %	0.3 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5082 ppm	96.8715 %	103.8637 %	98.0814 %	93.1674 %	101.4936 %	96.0181 %
Concentration per Run 1	0.5140 ppm	95.8636 %	103.5510 %	97.5991 %	92.5338 %	101.2934 %	95.6584 %
Concentration per Run 2	0.5089 ppm	97.0971 %	103.4553 %	98.8672 %	93.4527 %	100.7342 %	96.8421 %
Concentration per Run 3	0.5017 ppm	97.6537 %	104.5847 %	97.7778 %	93.5158 %	102.4534 %	95.5537 %
Recovery Percentage 1	101.645 %						
Concentration RSD	1.2 %	0.9 %	0.6 %	0.7 %	0.6 %	0.9 %	0.7 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 8:56:14 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0015 ppm	-0.0008 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0048 ppm
Concentration per Run 1	0.0001 ppm	0.0050 ppm	-0.0002 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0039 ppm
Concentration per Run 2	-0.0004 ppm	-0.0058 ppm	-0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0044 ppm
Concentration per Run 3	0.0001 ppm	-0.0038 ppm	-0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0061 ppm
Recovery Percentage 1	-0.890 %	-1.549 %	-26.425 %	2.629 %	-0.128 %	0.116 %	-4.797 %
Concentration RSD	408.5 %	370.1 %	143.2 %	89.7 %	183.2 %	373.3 %	24.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0011 ppm	0.0043 ppm	-0.0213 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0006 ppm	0.0007 ppm	0.0010 ppm	0.0053 ppm	-0.0214 ppm	0.0011 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0011 ppm	0.0038 ppm	-0.0284 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0011 ppm	0.0037 ppm	-0.0140 ppm	-0.0018 ppm
Recovery Percentage 1	0.067 %	1.073 %	4.501 %	10.561 %	8.512 %	-0.851 %	-3.723 %
Concentration RSD	2,688.3 %	207.7 %	55.4 %	5.0 %	21.4 %	33.8 %	394.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0018 ppm	0.0001 ppm	0.0020 ppm	-0.0103 ppm	0.0001 ppm	-0.0003 ppm	-0.0005 ppm
Concentration per Run 1	-0.0021 ppm	0.0003 ppm	0.0018 ppm	-0.0103 ppm	-0.0006 ppm	-0.0003 ppm	-0.0011 ppm
Concentration per Run 2	-0.0028 ppm	0.0001 ppm	0.0020 ppm	-0.0117 ppm	0.0002 ppm	-0.0003 ppm	0.0010 ppm
Concentration per Run 3	-0.0005 ppm	-0.0001 ppm	0.0022 ppm	-0.0090 ppm	0.0006 ppm	-0.0002 ppm	-0.0015 ppm
Recovery Percentage 1	-1.786 %	1.127 %	4.013 %	-0.517 %	0.259 %	-2.894 %	-1.072 %
Concentration RSD	66.9 %	144.2 %	8.7 %	12.9 %	1,000.2 %	26.7 %	256.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0010 ppm	0.0033 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.0006 ppm	0.0037 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 2	0.0014 ppm	0.0019 ppm	-0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.0009 ppm	0.0044 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm	0.0003 ppm
Recovery Percentage 1	9.855 %	0.670 %	0.778 %	1.030 %	0.081 %	4.719 %	1.792 %
Concentration RSD	41.6 %	37.6 %	181.6 %	60.3 %	1,420.5 %	45.5 %	61.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	91.7032 %	100.1527 %	95.0328 %	93.5597 %	101.2706 %	96.0051 %
Concentration per Run 1	0.0004 ppm	89.9798 %	100.5038 %	94.2388 %	92.9867 %	101.4061 %	96.0053 %
Concentration per Run 2	0.0006 ppm	92.0017 %	100.2597 %	95.2188 %	93.8343 %	101.1902 %	95.8170 %
Concentration per Run 3	0.0002 ppm	93.1281 %	99.6948 %	95.6407 %	93.8580 %	101.2157 %	96.1930 %
Recovery Percentage 1	8.307 %						
Concentration RSD	46.7 %	1.7 %	0.4 %	0.8 %	0.5 %	0.1 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: eL2453382-01D2 WG1974886
Analysis started at: 9/25/2024 9:04:39 AM
Rack 1
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0042 ppm	72.5165 ppm	0.2545 ppm	0.1166 ppm	5.8947 ppm	0.0041 ppm	847.2552 ppm
Concentration per Run 1	0.0042 ppm	72.8966 ppm	0.2610 ppm	0.1142 ppm	5.9112 ppm	0.0041 ppm	852.4425 ppm
Concentration per Run 2	0.0033 ppm	72.3844 ppm	0.2514 ppm	0.1105 ppm	5.8986 ppm	0.0041 ppm	845.9059 ppm
Concentration per Run 3	0.0051 ppm	72.2684 ppm	0.2512 ppm	0.1250 ppm	5.8744 ppm	0.0040 ppm	843.4171 ppm
Concentration RSD	21.5 %	0.5 %	2.2 %	6.5 %	0.3 %	1.9 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0331 ppm	0.2282 ppm	13.5423 ppm	4.1431 ppm	611.5530 [SIC 500]	7.1729 ppm	0.1436 ppm
Concentration per Run 1	0.0326 ppm	0.2261 ppm	13.3740 ppm	4.1044 ppm	613.6127 ppm	7.2250 ppm	0.1456 ppm
Concentration per Run 2	0.0314 ppm	0.2178 ppm	12.9667 ppm	3.9614 ppm	610.7249 ppm	7.1669 ppm	0.1426 ppm
Concentration per Run 3	0.0354 ppm	0.2408 ppm	14.2862 ppm	4.3634 ppm	610.3214 ppm	7.1268 ppm	0.1426 ppm
Concentration RSD	6.1 %	5.1 %	5.0 %	4.9 %	0.3 %	0.7 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	61.1598 ppm	5.4560 ppm	0.1337 ppm	2.0075 ppm	6.1436 ppm	42.7036 ppm	0.0940 ppm
Concentration per Run 1	60.3801 ppm	5.4795 ppm	0.1310 ppm	2.0229 ppm	6.0586 ppm	43.1685 ppm	0.0919 ppm
Concentration per Run 2	58.4554 ppm	5.4503 ppm	0.1283 ppm	1.9916 ppm	5.8887 ppm	42.5363 ppm	0.0885 ppm
Concentration per Run 3	64.6438 ppm	5.4381 ppm	0.1419 ppm	2.0079 ppm	6.4834 ppm	42.4061 ppm	0.1016 ppm
Concentration RSD	5.2 %	0.4 %	5.4 %	0.8 %	5.0 %	1.0 %	7.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0044 ppm	3.8459 ppm	2.1822 ppm	2.6869 ppm	27.9487 ppm	0.0291 ppm	0.2473 ppm
Concentration per Run 1	0.0058 ppm	3.8122 ppm	2.1540 ppm	2.6975 ppm	27.6135 ppm	0.0300 ppm	0.2447 ppm
Concentration per Run 2	0.0041 ppm	3.6825 ppm	2.0893 ppm	2.6944 ppm	26.7359 ppm	0.0322 ppm	0.2371 ppm
Concentration per Run 3	0.0033 ppm	4.0432 ppm	2.3033 ppm	2.6690 ppm	29.4966 ppm	0.0251 ppm	0.2601 ppm
Concentration RSD	29.8 %	4.8 %	5.0 %	0.6 %	5.0 %	12.6 %	4.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	16.7694 ppm	97.9697 %	105.4866 %	52.0973 %	120.0697 %	132.2422 %	116.3264 %
Concentration per Run 1	16.5663 ppm	99.2186 %	105.9996 %	51.8828 %	121.2227 %	133.5906 %	116.6921 %
Concentration per Run 2	16.0545 ppm	101.8370 %	104.8117 %	52.2815 %	124.6474 %	130.8184 %	116.3854 %
Concentration per Run 3	17.6875 ppm	92.8535 %	105.6486 %	52.1275 %	114.3388 %	132.3175 %	115.9017 %
Concentration RSD	5.0 %	4.7 %	0.6 %	0.4 %	4.4 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453600-01D2 WG1974886
Analysis started at: 9/25/2024 9:08:53 AM
Rack 1
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0136 ppm	63.3436 ppm	0.0449 ppm	0.0354 ppm	0.9802 ppm	0.0045 ppm	45.5558 ppm
Concentration per Run 1	0.0142 ppm	63.4066 ppm	0.0452 ppm	0.0369 ppm	0.9839 ppm	0.0045 ppm	45.5585 ppm
Concentration per Run 2	0.0136 ppm	63.3091 ppm	0.0458 ppm	0.0352 ppm	0.9841 ppm	0.0045 ppm	45.4374 ppm
Concentration per Run 3	0.0131 ppm	63.3151 ppm	0.0438 ppm	0.0341 ppm	0.9726 ppm	0.0044 ppm	45.6713 ppm
Concentration RSD	4.2 %	0.1 %	2.3 %	3.9 %	0.7 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0038 ppm	0.0538 ppm	0.1594 ppm	0.4130 ppm	155.1030 ppm	5.4530 ppm	0.0882 ppm
Concentration per Run 1	0.0037 ppm	0.0547 ppm	0.1615 ppm	0.4182 ppm	154.7638 ppm	5.4787 ppm	0.0895 ppm
Concentration per Run 2	0.0039 ppm	0.0534 ppm	0.1587 ppm	0.4112 ppm	155.1554 ppm	5.4122 ppm	0.0872 ppm
Concentration per Run 3	0.0039 ppm	0.0533 ppm	0.1578 ppm	0.4095 ppm	155.3900 ppm	5.4680 ppm	0.0878 ppm
Concentration RSD	3.1 %	1.4 %	1.2 %	1.1 %	0.2 %	0.7 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.5912 ppm	3.3403 ppm	0.0052 ppm	0.7485 ppm	0.1406 ppm	0.7461 ppm	0.0073 ppm
Concentration per Run 1	21.8392 ppm	3.3521 ppm	0.0048 ppm	0.7544 ppm	0.1446 ppm	0.7488 ppm	0.0086 ppm
Concentration per Run 2	21.5433 ppm	3.3355 ppm	0.0052 ppm	0.7468 ppm	0.1390 ppm	0.7440 ppm	0.0072 ppm
Concentration per Run 3	21.3911 ppm	3.3334 ppm	0.0055 ppm	0.7443 ppm	0.1382 ppm	0.7454 ppm	0.0060 ppm
Concentration RSD	1.1 %	0.3 %	7.0 %	0.7 %	2.5 %	0.3 %	18.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	4.0825 ppm	0.0533 ppm	0.2438 ppm	1.3802 ppm	0.0015 ppm	0.1940 ppm
Concentration per Run 1	0.0031 ppm	4.1502 ppm	0.0534 ppm	0.2439 ppm	1.3920 ppm	0.0010 ppm	0.1964 ppm
Concentration per Run 2	-0.0004 ppm	4.0659 ppm	0.0539 ppm	0.2454 ppm	1.3829 ppm	0.0024 ppm	0.1936 ppm
Concentration per Run 3	0.0035 ppm	4.0315 ppm	0.0525 ppm	0.2421 ppm	1.3659 ppm	0.0012 ppm	0.1920 ppm
Concentration RSD	103.9 %	1.5 %	1.3 %	0.7 %	1.0 %	46.2 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8471 ppm	97.7386 %	107.7736 %	94.1310 %	113.7627 %	127.8111 %	116.7355 %
Concentration per Run 1	0.8600 ppm	96.8488 %	108.5500 %	94.2412 %	113.1895 %	129.0485 %	117.0744 %
Concentration per Run 2	0.8444 ppm	97.9424 %	107.6092 %	94.1200 %	113.8396 %	126.9271 %	116.5897 %
Concentration per Run 3	0.8370 ppm	98.4246 %	107.1615 %	94.0317 %	114.2590 %	127.4577 %	116.5422 %
Concentration RSD	1.4 %	0.8 %	0.7 %	0.1 %	0.5 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453600-02D2 WG1974886
Analysis started at: 9/25/2024 9:12:47 AM
Rack 1
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0043 ppm	100.6373 ppm	0.0564 ppm	0.2460 ppm	0.4333 ppm	0.0036 ppm	82.0760 ppm
Concentration per Run 1	0.0043 ppm	100.8443 ppm	0.0566 ppm	0.2483 ppm	0.4316 ppm	0.0037 ppm	82.2657 ppm
Concentration per Run 2	0.0040 ppm	100.5874 ppm	0.0577 ppm	0.2447 ppm	0.4337 ppm	0.0036 ppm	82.0621 ppm
Concentration per Run 3	0.0045 ppm	100.4804 ppm	0.0548 ppm	0.2451 ppm	0.4345 ppm	0.0035 ppm	81.9001 ppm
Concentration RSD	5.4 %	0.2 %	2.7 %	0.8 %	0.3 %	1.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0065 ppm	0.1200 ppm	0.2848 ppm	13.5282 ppm	411.1289 ppm	6.1073 ppm	0.1026 ppm
Concentration per Run 1	0.0066 ppm	0.1213 ppm	0.2874 ppm	13.6935 ppm	410.8043 ppm	6.1501 ppm	0.1030 ppm
Concentration per Run 2	0.0062 ppm	0.1197 ppm	0.2848 ppm	13.4597 ppm	410.6856 ppm	6.0776 ppm	0.1019 ppm
Concentration per Run 3	0.0067 ppm	0.1191 ppm	0.2822 ppm	13.4315 ppm	411.8968 ppm	6.0943 ppm	0.1027 ppm
Concentration RSD	4.0 %	0.9 %	0.9 %	1.1 %	0.2 %	0.6 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	68.3996 ppm	5.0406 ppm	0.0221 ppm	6.3035 ppm	0.3772 ppm	2.1616 ppm	0.0304 ppm
Concentration per Run 1	69.0016 ppm	5.0578 ppm	0.0227 ppm	6.3147 ppm	0.3774 ppm	2.1727 ppm	0.0301 ppm
Concentration per Run 2	68.3923 ppm	5.0298 ppm	0.0223 ppm	6.2921 ppm	0.3792 ppm	2.1610 ppm	0.0316 ppm
Concentration per Run 3	67.8050 ppm	5.0341 ppm	0.0214 ppm	6.3038 ppm	0.3748 ppm	2.1509 ppm	0.0296 ppm
Concentration RSD	0.9 %	0.3 %	3.1 %	0.2 %	0.6 %	0.5 %	3.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	3.1948 ppm	0.7485 ppm	0.2714 ppm	7.2966 ppm	0.0037 ppm	0.5486 ppm
Concentration per Run 1	0.0010 ppm	3.2408 ppm	0.7523 ppm	0.2718 ppm	7.3546 ppm	0.0050 ppm	0.5528 ppm
Concentration per Run 2	-0.0010 ppm	3.1897 ppm	0.7524 ppm	0.2720 ppm	7.2977 ppm	0.0021 ppm	0.5506 ppm
Concentration per Run 3	-0.0001 ppm	3.1541 ppm	0.7407 ppm	0.2704 ppm	7.2375 ppm	0.0039 ppm	0.5425 ppm
Concentration RSD	25,650.5 %	1.4 %	0.9 %	0.3 %	0.8 %	40.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.5765 ppm	97.0554 %	108.2032 %	83.0442 %	131.0453 %	149.4673 %	132.6224 %
Concentration per Run 1	2.6001 ppm	96.4618 %	107.4384 %	82.9248 %	130.8605 %	148.5752 %	132.4146 %
Concentration per Run 2	2.5692 ppm	97.1857 %	108.7955 %	83.1899 %	130.6202 %	150.2261 %	132.9736 %
Concentration per Run 3	2.5602 ppm	97.5186 %	108.3758 %	83.0180 %	131.6551 %	149.6005 %	132.4791 %
Concentration RSD	0.8 %	0.6 %	0.6 %	0.2 %	0.4 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453600-03D2 WG1974886
Analysis started at: 9/25/2024 9:16:42 AM
Rack 1
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0105 ppm	73.8035 ppm	0.0742 ppm	0.0703 ppm	1.3920 ppm	0.0040 ppm	175.0315 ppm
Concentration per Run 1	0.0109 ppm	73.8484 ppm	0.0755 ppm	0.0705 ppm	1.3912 ppm	0.0041 ppm	175.2589 ppm
Concentration per Run 2	0.0101 ppm	73.9708 ppm	0.0731 ppm	0.0708 ppm	1.3886 ppm	0.0041 ppm	175.5291 ppm
Concentration per Run 3	0.0104 ppm	73.5915 ppm	0.0739 ppm	0.0695 ppm	1.3962 ppm	0.0040 ppm	174.3066 ppm
Concentration RSD	3.4 %	0.3 %	1.6 %	1.0 %	0.3 %	1.4 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0134 ppm	0.0689 ppm	0.2795 ppm	1.0733 ppm	211.8943 ppm	6.7530 ppm	0.0877 ppm
Concentration per Run 1	0.0135 ppm	0.0697 ppm	0.2821 ppm	1.0871 ppm	211.7789 ppm	6.7707 ppm	0.0874 ppm
Concentration per Run 2	0.0134 ppm	0.0684 ppm	0.2783 ppm	1.0701 ppm	211.9667 ppm	6.7195 ppm	0.0878 ppm
Concentration per Run 3	0.0133 ppm	0.0687 ppm	0.2781 ppm	1.0626 ppm	211.9373 ppm	6.7688 ppm	0.0880 ppm
Concentration RSD	0.8 %	1.0 %	0.8 %	1.2 %	0.0 %	0.4 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	36.8571 ppm	3.0177 ppm	0.0145 ppm	1.5755 ppm	0.2135 ppm	2.0967 ppm	0.0388 ppm
Concentration per Run 1	37.0924 ppm	3.0247 ppm	0.0140 ppm	1.5826 ppm	0.2159 ppm	2.0993 ppm	0.0416 ppm
Concentration per Run 2	36.7796 ppm	3.0213 ppm	0.0147 ppm	1.5713 ppm	0.2130 ppm	2.0869 ppm	0.0353 ppm
Concentration per Run 3	36.6994 ppm	3.0070 ppm	0.0147 ppm	1.5726 ppm	0.2117 ppm	2.1038 ppm	0.0394 ppm
Concentration RSD	0.6 %	0.3 %	2.8 %	0.4 %	1.0 %	0.4 %	8.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0049 ppm	3.1631 ppm	0.1215 ppm	0.9770 ppm	2.4066 ppm	0.0021 ppm	0.3244 ppm
Concentration per Run 1	0.0058 ppm	3.2154 ppm	0.1224 ppm	0.9810 ppm	2.4250 ppm	0.0026 ppm	0.3275 ppm
Concentration per Run 2	0.0045 ppm	3.1428 ppm	0.1215 ppm	0.9780 ppm	2.4061 ppm	0.0008 ppm	0.3239 ppm
Concentration per Run 3	0.0045 ppm	3.1312 ppm	0.1206 ppm	0.9721 ppm	2.3888 ppm	0.0029 ppm	0.3219 ppm
Concentration RSD	15.3 %	1.4 %	0.7 %	0.5 %	0.8 %	53.8 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0336 ppm	96.5197 %	106.4594 %	89.0862 %	108.5582 %	121.9612 %	109.7890 %
Concentration per Run 1	2.0543 ppm	95.8370 %	105.6034 %	89.0968 %	108.6328 %	120.8520 %	110.0501 %
Concentration per Run 2	2.0176 ppm	96.8985 %	106.4231 %	89.3339 %	108.7403 %	122.2875 %	109.9028 %
Concentration per Run 3	2.0289 ppm	96.8237 %	107.3517 %	88.8278 %	108.3013 %	122.7439 %	109.4141 %
Concentration RSD	0.9 %	0.6 %	0.8 %	0.3 %	0.2 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453600-04D2 WG1974886
Analysis started at: 9/25/2024 9:20:37 AM
Rack 1
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0124 ppm	75.1290 ppm	0.0897 ppm	0.0515 ppm	1.4587 ppm	0.0045 ppm	80.6288 ppm
Concentration per Run 1	0.0125 ppm	75.0829 ppm	0.0913 ppm	0.0525 ppm	1.4548 ppm	0.0045 ppm	80.6412 ppm
Concentration per Run 2	0.0122 ppm	75.1809 ppm	0.0881 ppm	0.0518 ppm	1.4634 ppm	0.0045 ppm	80.7119 ppm
Concentration per Run 3	0.0125 ppm	75.1233 ppm	0.0897 ppm	0.0502 ppm	1.4579 ppm	0.0044 ppm	80.5332 ppm
Concentration RSD	1.4 %	0.1 %	1.8 %	2.3 %	0.3 %	0.9 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0181 ppm	0.0634 ppm	0.3676 ppm	1.6893 ppm	175.8431 ppm	5.7345 ppm	0.0773 ppm
Concentration per Run 1	0.0181 ppm	0.0645 ppm	0.3708 ppm	1.7056 ppm	175.6076 ppm	5.7542 ppm	0.0787 ppm
Concentration per Run 2	0.0180 ppm	0.0631 ppm	0.3664 ppm	1.6865 ppm	176.4112 ppm	5.7311 ppm	0.0765 ppm
Concentration per Run 3	0.0181 ppm	0.0627 ppm	0.3657 ppm	1.6757 ppm	175.5106 ppm	5.7182 ppm	0.0767 ppm
Concentration RSD	0.2 %	1.5 %	0.8 %	0.9 %	0.3 %	0.3 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.2161 ppm	2.6341 ppm	0.0202 ppm	1.0087 ppm	0.2796 ppm	3.2132 ppm	0.0838 ppm
Concentration per Run 1	20.2845 ppm	2.6316 ppm	0.0202 ppm	1.0115 ppm	0.2820 ppm	3.2168 ppm	0.0838 ppm
Concentration per Run 2	20.1951 ppm	2.6405 ppm	0.0198 ppm	1.0069 ppm	0.2784 ppm	3.2199 ppm	0.0833 ppm
Concentration per Run 3	20.1687 ppm	2.6304 ppm	0.0206 ppm	1.0076 ppm	0.2783 ppm	3.2029 ppm	0.0841 ppm
Concentration RSD	0.3 %	0.2 %	2.0 %	0.2 %	0.8 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	3.2356 ppm	0.1530 ppm	0.5304 ppm	1.5718 ppm	0.0011 ppm	0.2645 ppm
Concentration per Run 1	0.0054 ppm	3.2678 ppm	0.1541 ppm	0.5301 ppm	1.5804 ppm	0.0016 ppm	0.2663 ppm
Concentration per Run 2	0.0027 ppm	3.2189 ppm	0.1524 ppm	0.5327 ppm	1.5702 ppm	0.0004 ppm	0.2640 ppm
Concentration per Run 3	0.0044 ppm	3.2201 ppm	0.1526 ppm	0.5285 ppm	1.5649 ppm	0.0013 ppm	0.2631 ppm
Concentration RSD	32.7 %	0.9 %	0.6 %	0.4 %	0.5 %	57.1 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2070 ppm	97.4987 %	108.8194 %	92.9916 %	112.1619 %	128.0830 %	115.0268 %
Concentration per Run 1	2.2203 ppm	97.3984 %	108.6133 %	92.7286 %	112.8167 %	127.8447 %	115.0242 %
Concentration per Run 2	2.2044 ppm	97.4979 %	108.8668 %	93.1118 %	112.0087 %	128.3506 %	115.3255 %
Concentration per Run 3	2.1962 ppm	97.5999 %	108.9781 %	93.1343 %	111.6602 %	128.0537 %	114.7308 %
Concentration RSD	0.6 %	0.1 %	0.2 %	0.2 %	0.5 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453600-05D2 WG1974886
Analysis started at: 9/25/2024 9:24:32 AM
Rack 1
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.1101 ppm	71.4488 ppm	0.0969 ppm	0.0607 ppm	1.6040 ppm	0.0047 ppm	104.2139 ppm
Concentration per Run 1	0.1116 ppm	71.7232 ppm	0.0979 ppm	0.0624 ppm	1.6022 ppm	0.0047 ppm	104.6970 ppm
Concentration per Run 2	0.1097 ppm	71.5686 ppm	0.0966 ppm	0.0601 ppm	1.6158 ppm	0.0047 ppm	104.3827 ppm
Concentration per Run 3	0.1091 ppm	71.0546 ppm	0.0963 ppm	0.0596 ppm	1.5939 ppm	0.0047 ppm	103.5619 ppm
Concentration RSD	1.2 %	0.5 %	0.9 %	2.5 %	0.7 %	0.4 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0182 ppm	0.0489 ppm	0.1615 ppm	0.7973 ppm	183.4171 ppm	5.6557 ppm	0.0740 ppm
Concentration per Run 1	0.0185 ppm	0.0493 ppm	0.1625 ppm	0.8077 ppm	183.2343 ppm	5.6971 ppm	0.0753 ppm
Concentration per Run 2	0.0181 ppm	0.0486 ppm	0.1615 ppm	0.7951 ppm	184.5038 ppm	5.6355 ppm	0.0734 ppm
Concentration per Run 3	0.0179 ppm	0.0489 ppm	0.1603 ppm	0.7892 ppm	182.5131 ppm	5.6345 ppm	0.0732 ppm
Concentration RSD	1.7 %	0.7 %	0.7 %	1.2 %	0.5 %	0.6 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	32.7308 ppm	2.7231 ppm	0.0169 ppm	2.0939 ppm	0.1562 ppm	4.3108 ppm	0.0241 ppm
Concentration per Run 1	33.0303 ppm	2.7317 ppm	0.0168 ppm	2.1055 ppm	0.1563 ppm	4.3169 ppm	0.0229 ppm
Concentration per Run 2	32.5332 ppm	2.7300 ppm	0.0167 ppm	2.0972 ppm	0.1553 ppm	4.3106 ppm	0.0229 ppm
Concentration per Run 3	32.6289 ppm	2.7075 ppm	0.0173 ppm	2.0790 ppm	0.1572 ppm	4.3049 ppm	0.0266 ppm
Concentration RSD	0.8 %	0.5 %	1.7 %	0.6 %	0.6 %	0.1 %	8.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0064 ppm	6.1685 ppm	0.1210 ppm	0.4492 ppm	2.7927 ppm	0.0024 ppm	0.2965 ppm
Concentration per Run 1	0.0081 ppm	6.2599 ppm	0.1218 ppm	0.4502 ppm	2.8164 ppm	0.0012 ppm	0.2998 ppm
Concentration per Run 2	0.0065 ppm	6.1465 ppm	0.1213 ppm	0.4522 ppm	2.7874 ppm	0.0040 ppm	0.2959 ppm
Concentration per Run 3	0.0044 ppm	6.0991 ppm	0.1198 ppm	0.4452 ppm	2.7744 ppm	0.0020 ppm	0.2939 ppm
Concentration RSD	28.9 %	1.3 %	0.9 %	0.8 %	0.8 %	59.9 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	5.5668 ppm	96.2156 %	107.3185 %	89.6986 %	113.1389 %	128.6563 %	115.7490 %
Concentration per Run 1	5.6044 ppm	95.6929 %	107.1840 %	89.4019 %	113.7575 %	128.9380 %	115.5433 %
Concentration per Run 2	5.5357 ppm	96.8213 %	106.9076 %	89.9111 %	113.4568 %	128.3587 %	116.1688 %
Concentration per Run 3	5.5602 ppm	96.1325 %	107.8641 %	89.7829 %	112.2024 %	128.6722 %	115.5350 %
Concentration RSD	0.6 %	0.6 %	0.5 %	0.3 %	0.7 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453621-01D2 WG1974886
Analysis started at: 9/25/2024 9:28:28 AM
Rack 1
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	79.0420 ppm	0.0518 ppm	0.3263 ppm	0.9434 ppm	0.0065 ppm	113.4973 ppm
Concentration per Run 1	0.0001 ppm	79.2506 ppm	0.0495 ppm	0.3297 ppm	0.9459 ppm	0.0064 ppm	113.6962 ppm
Concentration per Run 2	0.0006 ppm	78.9465 ppm	0.0527 ppm	0.3252 ppm	0.9440 ppm	0.0065 ppm	113.5476 ppm
Concentration per Run 3	0.0005 ppm	78.9290 ppm	0.0532 ppm	0.3239 ppm	0.9404 ppm	0.0065 ppm	113.2482 ppm
Concentration RSD	65.4 %	0.2 %	3.9 %	0.9 %	0.3 %	0.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0758 ppm	0.1583 ppm	0.3557 ppm	175.9594 ppm	17.0675 ppm	0.1114 ppm
Concentration per Run 1	0.0012 ppm	0.0768 ppm	0.1602 ppm	0.3584 ppm	176.0565 ppm	17.1215 ppm	0.1141 ppm
Concentration per Run 2	0.0013 ppm	0.0758 ppm	0.1586 ppm	0.3555 ppm	176.0059 ppm	17.0674 ppm	0.1102 ppm
Concentration per Run 3	0.0013 ppm	0.0747 ppm	0.1562 ppm	0.3532 ppm	175.8159 ppm	17.0137 ppm	0.1100 ppm
Concentration RSD	3.2 %	1.4 %	1.3 %	0.7 %	0.1 %	0.3 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.1504 ppm	5.5286 ppm	0.0059 ppm	4.1063 ppm	0.1382 ppm	0.2608 ppm	0.0036 ppm
Concentration per Run 1	54.5803 ppm	5.5410 ppm	0.0064 ppm	4.1343 ppm	0.1406 ppm	0.2601 ppm	0.0021 ppm
Concentration per Run 2	54.1421 ppm	5.5314 ppm	0.0061 ppm	4.0932 ppm	0.1379 ppm	0.2609 ppm	0.0038 ppm
Concentration per Run 3	53.7288 ppm	5.5133 ppm	0.0052 ppm	4.0913 ppm	0.1361 ppm	0.2614 ppm	0.0048 ppm
Concentration RSD	0.8 %	0.3 %	11.1 %	0.6 %	1.6 %	0.2 %	39.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0007 ppm	10.4792 ppm	0.0085 ppm	0.3512 ppm	5.1253 ppm	0.0036 ppm	0.3743 ppm
Concentration per Run 1	0.0000 ppm	10.5812 ppm	0.0083 ppm	0.3523 ppm	5.1624 ppm	0.0045 ppm	0.3793 ppm
Concentration per Run 2	-0.0003 ppm	10.4771 ppm	0.0093 ppm	0.3519 ppm	5.1266 ppm	0.0033 ppm	0.3725 ppm
Concentration per Run 3	-0.0017 ppm	10.3795 ppm	0.0081 ppm	0.3493 ppm	5.0869 ppm	0.0031 ppm	0.3711 ppm
Concentration RSD	138.9 %	1.0 %	7.4 %	0.5 %	0.7 %	21.7 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6759 ppm	98.8851 %	106.9089 %	89.3781 %	125.8544 %	140.5727 %	129.1036 %
Concentration per Run 1	0.6838 ppm	97.4466 %	106.6070 %	89.0804 %	124.7377 %	140.0539 %	128.6781 %
Concentration per Run 2	0.6751 ppm	99.2805 %	107.5244 %	89.5474 %	126.2151 %	141.3547 %	128.7795 %
Concentration per Run 3	0.6690 ppm	99.9283 %	106.5954 %	89.5065 %	126.6106 %	140.3096 %	129.8531 %
Concentration RSD	1.1 %	1.3 %	0.5 %	0.3 %	0.8 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453621-02D2 WG1974886
Analysis started at: 9/25/2024 9:32:24 AM
Rack 1
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	75.4637 ppm	0.0459 ppm	0.3176 ppm	0.8709 ppm	0.0053 ppm	178.1076 ppm
Concentration per Run 1	0.0005 ppm	75.7078 ppm	0.0448 ppm	0.3192 ppm	0.8737 ppm	0.0052 ppm	178.6033 ppm
Concentration per Run 2	0.0008 ppm	75.3556 ppm	0.0470 ppm	0.3161 ppm	0.8676 ppm	0.0053 ppm	177.6102 ppm
Concentration per Run 3	0.0006 ppm	75.3276 ppm	0.0460 ppm	0.3175 ppm	0.8714 ppm	0.0054 ppm	178.1093 ppm
Concentration RSD	27.8 %	0.3 %	2.3 %	0.5 %	0.4 %	1.6 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0004 ppm	0.0695 ppm	0.1554 ppm	0.3908 ppm	155.8660 ppm	15.9181 ppm	0.0974 ppm
Concentration per Run 1	0.0003 ppm	0.0703 ppm	0.1565 ppm	0.3934 ppm	156.5527 ppm	16.0279 ppm	0.0987 ppm
Concentration per Run 2	0.0004 ppm	0.0696 ppm	0.1553 ppm	0.3895 ppm	155.0732 ppm	15.9064 ppm	0.0985 ppm
Concentration per Run 3	0.0004 ppm	0.0686 ppm	0.1544 ppm	0.3894 ppm	155.9721 ppm	15.8201 ppm	0.0950 ppm
Concentration RSD	11.8 %	1.2 %	0.7 %	0.6 %	0.5 %	0.7 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	54.8813 ppm	4.8622 ppm	0.0063 ppm	3.9793 ppm	0.1294 ppm	0.2640 ppm	0.0031 ppm
Concentration per Run 1	55.1901 ppm	4.8729 ppm	0.0061 ppm	4.0154 ppm	0.1301 ppm	0.2631 ppm	0.0003 ppm
Concentration per Run 2	54.7572 ppm	4.8523 ppm	0.0060 ppm	3.9699 ppm	0.1288 ppm	0.2665 ppm	0.0086 ppm
Concentration per Run 3	54.6966 ppm	4.8616 ppm	0.0066 ppm	3.9525 ppm	0.1294 ppm	0.2623 ppm	0.0006 ppm
Concentration RSD	0.5 %	0.2 %	5.4 %	0.8 %	0.5 %	0.8 %	150.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0002 ppm	21.2844 [SIC 100]	0.0159 ppm	0.4439 ppm	4.8395 ppm	0.0017 ppm	0.3418 ppm
Concentration per Run 1	0.0013 ppm	21.3999 ppm	0.0158 ppm	0.4422 ppm	4.8609 ppm	0.0016 ppm	0.3458 ppm
Concentration per Run 2	0.0004 ppm	21.3056 ppm	0.0162 ppm	0.4427 ppm	4.8321 ppm	0.0014 ppm	0.3394 ppm
Concentration per Run 3	-0.0012 ppm	21.1476 ppm	0.0158 ppm	0.4469 ppm	4.8255 ppm	0.0021 ppm	0.3401 ppm
Concentration RSD	724.9 %	0.6 %	1.4 %	0.6 %	0.4 %	20.0 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7689 ppm	95.7364 %	105.6943 %	87.1410 %	122.2044 %	138.9050 %	125.4354 %
Concentration per Run 1	0.7718 ppm	94.8026 %	104.9801 %	87.0375 %	121.5477 %	138.0553 %	125.6684 %
Concentration per Run 2	0.7702 ppm	96.3636 %	106.3117 %	87.0290 %	122.7485 %	139.6919 %	125.0972 %
Concentration per Run 3	0.7646 ppm	96.0432 %	105.7910 %	87.3565 %	122.3172 %	138.9677 %	125.5407 %
Concentration RSD	0.5 %	0.9 %	0.6 %	0.2 %	0.5 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453621-03D2 WG1974886
Analysis started at: 9/25/2024 9:36:20 AM
Rack 1
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	86.4762 ppm	0.0589 ppm	0.3559 ppm	1.0048 ppm	0.0071 ppm	214.9721 ppm
Concentration per Run 1	0.0003 ppm	86.2808 ppm	0.0586 ppm	0.3589 ppm	1.0088 ppm	0.0070 ppm	213.5923 ppm
Concentration per Run 2	0.0006 ppm	86.5671 ppm	0.0588 ppm	0.3559 ppm	1.0007 ppm	0.0072 ppm	216.2386 ppm
Concentration per Run 3	0.0003 ppm	86.5808 ppm	0.0592 ppm	0.3527 ppm	1.0049 ppm	0.0070 ppm	215.0854 ppm
Concentration RSD	36.2 %	0.2 %	0.5 %	0.9 %	0.4 %	1.0 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0777 ppm	0.1716 ppm	0.4345 ppm	190.0774 ppm	16.9029 ppm	0.1134 ppm
Concentration per Run 1	0.0006 ppm	0.0772 ppm	0.1728 ppm	0.4359 ppm	189.7294 ppm	16.8925 ppm	0.1136 ppm
Concentration per Run 2	0.0006 ppm	0.0782 ppm	0.1711 ppm	0.4356 ppm	190.5217 ppm	16.9030 ppm	0.1129 ppm
Concentration per Run 3	0.0006 ppm	0.0778 ppm	0.1709 ppm	0.4320 ppm	189.9811 ppm	16.9133 ppm	0.1136 ppm
Concentration RSD	0.2 %	0.7 %	0.6 %	0.5 %	0.2 %	0.1 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	61.7488 ppm	5.9804 ppm	0.0069 ppm	4.4130 ppm	0.1366 ppm	0.2958 ppm	0.0025 ppm
Concentration per Run 1	61.8793 ppm	5.9723 ppm	0.0070 ppm	4.4054 ppm	0.1373 ppm	0.2952 ppm	0.0038 ppm
Concentration per Run 2	61.6050 ppm	5.9863 ppm	0.0068 ppm	4.4227 ppm	0.1366 ppm	0.2969 ppm	0.0017 ppm
Concentration per Run 3	61.7621 ppm	5.9825 ppm	0.0068 ppm	4.4110 ppm	0.1358 ppm	0.2954 ppm	0.0020 ppm
Concentration RSD	0.2 %	0.1 %	1.9 %	0.2 %	0.5 %	0.3 %	44.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	20.3435 [SIC 100]	0.0099 ppm	0.5552 ppm	5.9979 ppm	0.0030 ppm	0.4801 ppm
Concentration per Run 1	-0.0019 ppm	20.5798 ppm	0.0097 ppm	0.5542 ppm	6.0332 ppm	0.0032 ppm	0.4812 ppm
Concentration per Run 2	-0.0015 ppm	20.2980 ppm	0.0102 ppm	0.5560 ppm	5.9854 ppm	0.0026 ppm	0.4791 ppm
Concentration per Run 3	0.0014 ppm	20.1527 ppm	0.0098 ppm	0.5555 ppm	5.9750 ppm	0.0031 ppm	0.4799 ppm
Concentration RSD	279.1 %	1.1 %	2.4 %	0.2 %	0.5 %	10.7 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7636 ppm	97.3278 %	106.7579 %	86.0950 %	122.9025 %	139.3686 %	125.4815 %
Concentration per Run 1	0.7638 ppm	97.4717 %	107.7788 %	85.9536 %	123.9330 %	139.9663 %	125.7523 %
Concentration per Run 2	0.7636 ppm	97.4399 %	105.1777 %	86.4510 %	122.8577 %	137.6290 %	125.9257 %
Concentration per Run 3	0.7634 ppm	97.0719 %	107.3173 %	85.8803 %	121.9169 %	140.5105 %	124.7665 %
Concentration RSD	0.0 %	0.2 %	1.3 %	0.4 %	0.8 %	1.1 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453642-01D2 WG1974886
Analysis started at: 9/25/2024 9:40:17 AM
Rack 1
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	116.5533 ppm	0.1093 ppm	0.0181 ppm	0.2842 ppm	0.0051 ppm	37.1718 ppm
Concentration per Run 1	0.0008 ppm	116.1259 ppm	0.1079 ppm	0.0193 ppm	0.2830 ppm	0.0052 ppm	37.1420 ppm
Concentration per Run 2	0.0000 ppm	116.7501 ppm	0.1115 ppm	0.0171 ppm	0.2848 ppm	0.0051 ppm	37.1724 ppm
Concentration per Run 3	0.0003 ppm	116.7839 ppm	0.1085 ppm	0.0180 ppm	0.2849 ppm	0.0051 ppm	37.2011 ppm
Concentration RSD	100.2 %	0.3 %	1.8 %	6.1 %	0.4 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0027 ppm	0.1112 ppm	0.1739 ppm	0.4823 ppm	284.3746 ppm	3.6743 ppm	0.2601 ppm
Concentration per Run 1	0.0028 ppm	0.1126 ppm	0.1748 ppm	0.4859 ppm	282.8296 ppm	3.6616 ppm	0.2592 ppm
Concentration per Run 2	0.0025 ppm	0.1111 ppm	0.1736 ppm	0.4816 ppm	285.3471 ppm	3.6601 ppm	0.2598 ppm
Concentration per Run 3	0.0028 ppm	0.1098 ppm	0.1733 ppm	0.4795 ppm	284.9472 ppm	3.7010 ppm	0.2613 ppm
Concentration RSD	5.2 %	1.2 %	0.4 %	0.7 %	0.5 %	0.6 %	0.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	51.5116 ppm	5.5861 ppm	0.0159 ppm	0.2701 ppm	0.3404 ppm	0.1585 ppm	0.0038 ppm
Concentration per Run 1	51.9097 ppm	5.5742 ppm	0.0156 ppm	0.2693 ppm	0.3410 ppm	0.1571 ppm	0.0037 ppm
Concentration per Run 2	51.4483 ppm	5.5886 ppm	0.0160 ppm	0.2738 ppm	0.3421 ppm	0.1591 ppm	0.0023 ppm
Concentration per Run 3	51.1769 ppm	5.5956 ppm	0.0161 ppm	0.2672 ppm	0.3380 ppm	0.1594 ppm	0.0055 ppm
Concentration RSD	0.7 %	0.2 %	1.6 %	1.2 %	0.6 %	0.8 %	41.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0006 ppm	2.9560 ppm	0.0029 ppm	0.1141 ppm	0.1991 ppm	0.0033 ppm	0.1856 ppm
Concentration per Run 1	0.0006 ppm	2.9667 ppm	0.0030 ppm	0.1144 ppm	0.1991 ppm	0.0029 ppm	0.1862 ppm
Concentration per Run 2	-0.0023 ppm	2.9472 ppm	0.0027 ppm	0.1141 ppm	0.1999 ppm	0.0028 ppm	0.1871 ppm
Concentration per Run 3	0.0001 ppm	2.9541 ppm	0.0031 ppm	0.1139 ppm	0.1984 ppm	0.0043 ppm	0.1835 ppm
Concentration RSD	274.0 %	0.3 %	8.3 %	0.3 %	0.4 %	24.4 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2654 ppm	100.1505 %	109.0989 %	95.6142 %	120.7833 %	136.0772 %	124.9001 %
Concentration per Run 1	1.2756 ppm	99.4651 %	108.7271 %	96.0791 %	120.0556 %	135.4442 %	125.8294 %
Concentration per Run 2	1.2615 ppm	100.1700 %	109.4025 %	95.2158 %	120.6331 %	136.3809 %	124.3424 %
Concentration per Run 3	1.2592 ppm	100.8163 %	109.1673 %	95.5476 %	121.6610 %	136.4065 %	124.5286 %
Concentration RSD	0.7 %	0.7 %	0.3 %	0.5 %	0.7 %	0.4 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 9:44:14 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5027 ppm	0.4861 ppm	0.4853 ppm	0.4974 ppm	0.5078 ppm	0.5189 ppm	0.4935 ppm
Concentration per Run 1	0.5029 ppm	0.4887 ppm	0.4845 ppm	0.4960 ppm	0.5088 ppm	0.5160 ppm	0.4922 ppm
Concentration per Run 2	0.5026 ppm	0.4863 ppm	0.4844 ppm	0.5015 ppm	0.5090 ppm	0.5186 ppm	0.4924 ppm
Concentration per Run 3	0.5025 ppm	0.4834 ppm	0.4869 ppm	0.4949 ppm	0.5055 ppm	0.5221 ppm	0.4957 ppm
Recovery Percentage 1	100.536 %	97.227 %	97.055 %	99.489 %	101.551 %	103.784 %	98.695 %
Concentration RSD	0.0 %	0.5 %	0.3 %	0.7 %	0.4 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5105 ppm	0.5092 ppm	0.4996 ppm	0.4918 ppm	0.5280 ppm	5.2451 ppm	0.4897 ppm
Concentration per Run 1	0.5088 ppm	0.5064 ppm	0.5000 ppm	0.4906 ppm	0.5283 ppm	5.2294 ppm	0.4895 ppm
Concentration per Run 2	0.5134 ppm	0.5135 ppm	0.4995 ppm	0.4940 ppm	0.5301 ppm	5.2196 ppm	0.4870 ppm
Concentration per Run 3	0.5093 ppm	0.5078 ppm	0.4992 ppm	0.4908 ppm	0.5256 ppm	5.2863 ppm	0.4924 ppm
Recovery Percentage 1	102.097 %	101.847 %	99.916 %	98.366 %	105.598 %	104.902 %	97.930 %
Concentration RSD	0.5 %	0.7 %	0.1 %	0.4 %	0.4 %	0.7 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4958 ppm	0.5038 ppm	0.4998 ppm	10.0863 ppm	0.5080 ppm	0.5007 ppm	0.5003 ppm
Concentration per Run 1	0.4944 ppm	0.5031 ppm	0.4953 ppm	10.0770 ppm	0.5097 ppm	0.4983 ppm	0.4979 ppm
Concentration per Run 2	0.4989 ppm	0.5046 ppm	0.5026 ppm	10.0687 ppm	0.5077 ppm	0.5013 ppm	0.5038 ppm
Concentration per Run 3	0.4941 ppm	0.5037 ppm	0.5014 ppm	10.1131 ppm	0.5067 ppm	0.5023 ppm	0.4993 ppm
Recovery Percentage 1	99.167 %	100.757 %	99.952 %	100.863 %	101.610 %	100.131 %	100.064 %
Concentration RSD	0.5 %	0.1 %	0.8 %	0.2 %	0.3 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4937 ppm	5.5797 ppm	0.4841 ppm	0.4894 ppm	0.5048 ppm	0.5010 ppm	0.5022 ppm
Concentration per Run 1	0.4886 ppm	5.5555 ppm	0.4843 ppm	0.4889 ppm	0.5036 ppm	0.4988 ppm	0.5014 ppm
Concentration per Run 2	0.4976 ppm	5.6035 ppm	0.4834 ppm	0.4900 ppm	0.5060 ppm	0.5005 ppm	0.5035 ppm
Concentration per Run 3	0.4949 ppm	5.5801 ppm	0.4845 ppm	0.4892 ppm	0.5049 ppm	0.5038 ppm	0.5018 ppm
Recovery Percentage 1	98.744 %	106.279 %	96.818 %	97.880 %	100.962 %	100.209 %	100.447 %
Concentration RSD	0.9 %	0.4 %	0.1 %	0.1 %	0.2 %	0.5 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5072 ppm	97.1790 %	104.6617 %	97.7622 %	94.0295 %	102.5043 %	95.8816 %
Concentration per Run 1	0.5077 ppm	97.1107 %	105.1746 %	98.0948 %	94.1749 %	102.8847 %	96.0777 %
Concentration per Run 2	0.5111 ppm	97.0946 %	105.4952 %	97.7783 %	94.1263 %	103.4961 %	96.0301 %
Concentration per Run 3	0.5029 ppm	97.3318 %	103.3154 %	97.4136 %	93.7873 %	101.1321 %	95.5371 %
Recovery Percentage 1	101.450 %						
Concentration RSD	0.8 %	0.1 %	1.1 %	0.3 %	0.2 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 9:48:10 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0080 ppm	0.0003 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	-0.0068 ppm
Concentration per Run 1	-0.0005 ppm	-0.0107 ppm	0.0021 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	-0.0060 ppm
Concentration per Run 2	0.0001 ppm	-0.0068 ppm	-0.0005 ppm	0.0021 ppm	-0.0003 ppm	0.0000 ppm	-0.0103 ppm
Concentration per Run 3	-0.0002 ppm	-0.0064 ppm	-0.0006 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0041 ppm
Recovery Percentage 1	-3.017 %	-7.977 %	10.079 %	4.665 %	-1.686 %	0.219 %	-6.798 %
Concentration RSD	148.5 %	29.5 %	502.6 %	71.3 %	104.9 %	216.7 %	46.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0006 ppm	0.0013 ppm	0.0073 ppm	-0.0240 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	0.0009 ppm	0.0014 ppm	0.0083 ppm	-0.0097 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0012 ppm	0.0074 ppm	-0.0460 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0012 ppm	0.0063 ppm	-0.0164 ppm	0.0003 ppm
Recovery Percentage 1	-0.309 %	1.800 %	5.557 %	12.538 %	14.654 %	-0.960 %	3.847 %
Concentration RSD	625.1 %	83.1 %	47.2 %	7.5 %	13.3 %	80.4 %	65.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0017 ppm	0.0000 ppm	0.0017 ppm	-0.0181 ppm	0.0003 ppm	-0.0001 ppm	-0.0008 ppm
Concentration per Run 1	-0.0011 ppm	0.0000 ppm	0.0017 ppm	-0.0181 ppm	0.0002 ppm	-0.0011 ppm	-0.0037 ppm
Concentration per Run 2	-0.0030 ppm	0.0000 ppm	0.0015 ppm	-0.0178 ppm	0.0006 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 3	-0.0011 ppm	-0.0001 ppm	0.0017 ppm	-0.0183 ppm	0.0000 ppm	0.0007 ppm	0.0002 ppm
Recovery Percentage 1	-1.745 %	-0.456 %	3.318 %	-0.903 %	1.098 %	-0.961 %	-1.635 %
Concentration RSD	63.9 %	154.2 %	7.3 %	1.4 %	123.8 %	947.7 %	307.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0012 ppm	0.0113 ppm	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 1	0.0023 ppm	0.0142 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 2	0.0005 ppm	0.0100 ppm	-0.0008 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 3	0.0010 ppm	0.0096 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm	-0.0005 ppm	0.0002 ppm
Recovery Percentage 1	12.274 %	2.256 %	-0.853 %	0.670 %	-0.849 %	-2.470 %	3.452 %
Concentration RSD	75.6 %	22.4 %	104.9 %	53.1 %	244.2 %	56.0 %	30.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0002 ppm	92.3134 %	100.4095 %	95.8394 %	94.6108 %	101.4751 %	96.9563 %
Concentration per Run 1	0.0002 ppm	90.2332 %	99.8914 %	94.9252 %	93.7994 %	101.3509 %	96.5809 %
Concentration per Run 2	0.0001 ppm	92.7345 %	100.0280 %	96.4109 %	94.9785 %	100.6720 %	97.0998 %
Concentration per Run 3	0.0004 ppm	93.9726 %	101.3092 %	96.1821 %	95.0543 %	102.4024 %	97.1882 %
Recovery Percentage 1	4.679 %						
Concentration RSD	66.0 %	2.1 %	0.8 %	0.8 %	0.7 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: 0.005
Analysis started at: 9/25/2024 9:54:03 AM
Rack 1
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0053 ppm	**0.0021 ppm**	0.0059 ppm	**0.0060 ppm**	**0.0053 ppm**	0.0052 ppm	**0.0025 ppm**
Concentration per Run 1	0.0052 ppm	0.0052 ppm	0.0061 ppm	0.0063 ppm	0.0053 ppm	0.0052 ppm	0.0002 ppm
Concentration per Run 2	0.0051 ppm	0.0022 ppm	0.0060 ppm	0.0058 ppm	0.0052 ppm	0.0052 ppm	0.0040 ppm
Concentration per Run 3	0.0057 ppm	-0.0010 ppm	0.0055 ppm	0.0059 ppm	0.0054 ppm	0.0052 ppm	0.0033 ppm
Recovery Percentage 1	106.659 %	2.144 %	117.718 %	19.991 %	53.088 %	103.857 %	2.511 %
Concentration RSD	6.6 %	**143.9 %**	5.5 %	**4.2 %**	**2.1 %**	0.5 %	**80.2 %**

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	**0.0054 ppm**	**0.0059 ppm**	**0.0054 ppm**	**0.0063 ppm**	**0.0087 ppm**	**0.0252 ppm**	**0.0059 ppm**
Concentration per Run 1	0.0054 ppm	0.0062 ppm	0.0055 ppm	0.0066 ppm	0.0107 ppm	0.0348 ppm	0.0052 ppm
Concentration per Run 2	0.0054 ppm	0.0060 ppm	0.0054 ppm	0.0065 ppm	0.0078 ppm	0.0331 ppm	0.0073 ppm
Concentration per Run 3	0.0052 ppm	0.0056 ppm	0.0053 ppm	0.0059 ppm	0.0075 ppm	0.0075 ppm	0.0053 ppm
Recovery Percentage 1	134.027 %	29.734 %	54.084 %	63.285 %	17.359 %	1.007 %	59.348 %
Concentration RSD	**2.1 %**	**4.9 %**	**2.0 %**	**6.5 %**	**20.3 %**	**60.8 %**	**20.0 %**

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	**0.0057 ppm**	**0.0053 ppm**	**0.0053 ppm**	**0.0895 ppm**	**0.0053 ppm**	**0.0062 ppm**	**0.0048 ppm**
Concentration per Run 1	0.0057 ppm	0.0055 ppm	0.0054 ppm	0.0844 ppm	0.0053 ppm	0.0062 ppm	0.0039 ppm
Concentration per Run 2	0.0053 ppm	0.0053 ppm	0.0055 ppm	0.0929 ppm	0.0049 ppm	0.0061 ppm	0.0058 ppm
Concentration per Run 3	0.0061 ppm	0.0052 ppm	0.0051 ppm	0.0912 ppm	0.0055 ppm	0.0063 ppm	0.0046 ppm
Recovery Percentage 1	5.696 %	53.292 %	10.672 %	4.474 %	21.059 %	62.151 %	9.570 %
Concentration RSD	**7.1 %**	**2.6 %**	**3.8 %**	**5.0 %**	**5.8 %**	**1.3 %**	**19.8 %**

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	**0.0073 ppm**	**0.0666 ppm**	**0.0048 ppm**	**0.0051 ppm**	**0.0053 ppm**	**0.0051 ppm**	**0.0053 ppm**
Concentration per Run 1	0.0058 ppm	0.0674 ppm	0.0049 ppm	0.0051 ppm	0.0052 ppm	0.0056 ppm	0.0054 ppm
Concentration per Run 2	0.0065 ppm	0.0691 ppm	0.0048 ppm	0.0051 ppm	0.0055 ppm	0.0049 ppm	0.0053 ppm
Concentration per Run 3	0.0095 ppm	0.0633 ppm	0.0048 ppm	0.0051 ppm	0.0052 ppm	0.0049 ppm	0.0052 ppm
Recovery Percentage 1	72.501 %	13.313 %	9.659 %	50.847 %	10.608 %	25.722 %	53.057 %
Concentration RSD	**27.3 %**	**4.5 %**	**1.2 %**	**0.7 %**	**3.2 %**	**7.2 %**	**2.1 %**

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0056 ppm	93.9380 %	102.3730 %	97.4555 %	94.6761 %	102.5584 %	97.3394 %
Concentration per Run 1	0.0056 ppm	92.9574 %	101.5358 %	97.3868 %	94.4682 %	101.6411 %	97.4392 %
Concentration per Run 2	0.0057 ppm	93.5465 %	102.9194 %	98.0629 %	94.1742 %	103.1756 %	97.6071 %
Concentration per Run 3	0.0055 ppm	95.3102 %	102.6637 %	96.9170 %	95.3859 %	102.8584 %	96.9719 %
Recovery Percentage 1	112.127 %						
Concentration RSD	2.2 %	1.3 %	0.7 %	0.6 %	0.7 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453642-02D2 WG1974886
Analysis started at: 9/25/2024 9:59:41 AM
Rack 1
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	129.9467 ppm	0.1244 ppm	0.0123 ppm	0.4897 ppm	0.0059 ppm	85.7004 ppm
Concentration per Run 1	-0.0003 ppm	130.2913 ppm	0.1250 ppm	0.0131 ppm	0.4893 ppm	0.0060 ppm	86.0096 ppm
Concentration per Run 2	0.0000 ppm	130.0342 ppm	0.1238 ppm	0.0114 ppm	0.4867 ppm	0.0059 ppm	85.7367 ppm
Concentration per Run 3	0.0006 ppm	129.5144 ppm	0.1244 ppm	0.0122 ppm	0.4933 ppm	0.0059 ppm	85.3548 ppm
Concentration RSD	581.8 %	0.3 %	0.5 %	6.8 %	0.7 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0031 ppm	0.1145 ppm	0.1790 ppm	0.4961 ppm	305.6301 ppm	4.6376 ppm	0.2445 ppm
Concentration per Run 1	0.0032 ppm	0.1149 ppm	0.1796 ppm	0.4993 ppm	305.3437 ppm	4.6719 ppm	0.2475 ppm
Concentration per Run 2	0.0030 ppm	0.1147 ppm	0.1785 ppm	0.4948 ppm	303.4838 ppm	4.5846 ppm	0.2379 ppm
Concentration per Run 3	0.0031 ppm	0.1140 ppm	0.1788 ppm	0.4943 ppm	308.0628 ppm	4.6561 ppm	0.2482 ppm
Concentration RSD	2.6 %	0.4 %	0.3 %	0.6 %	0.8 %	1.0 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.2189 ppm	10.1475 ppm	0.0135 ppm	0.3122 ppm	0.3300 ppm	0.1715 ppm	0.0756 ppm
Concentration per Run 1	60.3886 ppm	10.1578 ppm	0.0136 ppm	0.3146 ppm	0.3315 ppm	0.1717 ppm	0.0744 ppm
Concentration per Run 2	60.1371 ppm	10.1601 ppm	0.0135 ppm	0.3093 ppm	0.3297 ppm	0.1724 ppm	0.0756 ppm
Concentration per Run 3	60.1309 ppm	10.1244 ppm	0.0134 ppm	0.3126 ppm	0.3288 ppm	0.1704 ppm	0.0768 ppm
Concentration RSD	0.2 %	0.2 %	0.5 %	0.9 %	0.4 %	0.6 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0008 ppm	2.3883 ppm	0.0028 ppm	0.1625 ppm	0.3336 ppm	0.0033 ppm	0.2121 ppm
Concentration per Run 1	0.0008 ppm	2.4091 ppm	0.0025 ppm	0.1633 ppm	0.3356 ppm	0.0044 ppm	0.2127 ppm
Concentration per Run 2	-0.0036 ppm	2.3893 ppm	0.0033 ppm	0.1624 ppm	0.3311 ppm	0.0008 ppm	0.2113 ppm
Concentration per Run 3	0.0005 ppm	2.3665 ppm	0.0025 ppm	0.1618 ppm	0.3342 ppm	0.0048 ppm	0.2122 ppm
Concentration RSD	325.1 %	0.9 %	18.2 %	0.5 %	0.7 %	66.1 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.4652 ppm	110.5725 %	111.7398 %	99.2989 %	156.1808 %	162.9095 %	156.7049 %
Concentration per Run 1	1.4731 ppm	110.1047 %	111.9806 %	99.5525 %	155.8625 %	163.4207 %	157.2049 %
Concentration per Run 2	1.4582 ppm	110.8359 %	111.4305 %	99.5305 %	156.4355 %	162.5459 %	157.0672 %
Concentration per Run 3	1.4643 ppm	110.7770 %	111.8083 %	98.8138 %	156.2445 %	162.7618 %	155.8427 %
Concentration RSD	0.5 %	0.4 %	0.3 %	0.4 %	0.2 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453642-03D2 WG1974886
Analysis started at: 9/25/2024 10:03:55 AM
Rack 1
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	99.9313 ppm	0.1035 ppm	0.0147 ppm	0.3992 ppm	0.0044 ppm	142.3057 ppm
Concentration per Run 1	0.0004 ppm	100.2996 ppm	0.1049 ppm	0.0155 ppm	0.3990 ppm	0.0044 ppm	141.7433 ppm
Concentration per Run 2	0.0008 ppm	100.6166 ppm	0.1028 ppm	0.0144 ppm	0.4033 ppm	0.0045 ppm	142.5732 ppm
Concentration per Run 3	0.0004 ppm	98.8775 ppm	0.1029 ppm	0.0142 ppm	0.3954 ppm	0.0045 ppm	142.6005 ppm
Concentration RSD	42.7 %	0.9 %	1.1 %	5.0 %	1.0 %	1.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0025 ppm	0.0969 ppm	0.1397 ppm	0.4635 ppm	256.0867 ppm	4.1256 ppm	0.2155 ppm
Concentration per Run 1	0.0025 ppm	0.0982 ppm	0.1409 ppm	0.4683 ppm	256.4199 ppm	4.2018 ppm	0.2196 ppm
Concentration per Run 2	0.0026 ppm	0.0964 ppm	0.1390 ppm	0.4628 ppm	259.0140 ppm	4.2227 ppm	0.2205 ppm
Concentration per Run 3	0.0025 ppm	0.0962 ppm	0.1391 ppm	0.4593 ppm	252.8261 ppm	3.9523 ppm	0.2064 ppm
Concentration RSD	3.5 %	1.1 %	0.7 %	1.0 %	1.2 %	3.6 %	3.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	66.3959 ppm	9.7746 ppm	0.0139 ppm	0.5230 ppm	0.2804 ppm	0.1339 ppm	0.0186 ppm
Concentration per Run 1	66.8773 ppm	9.7725 ppm	0.0142 ppm	0.5311 ppm	0.2830 ppm	0.1336 ppm	0.0182 ppm
Concentration per Run 2	66.3516 ppm	9.8194 ppm	0.0140 ppm	0.5269 ppm	0.2785 ppm	0.1339 ppm	0.0175 ppm
Concentration per Run 3	65.9589 ppm	9.7318 ppm	0.0136 ppm	0.5110 ppm	0.2797 ppm	0.1341 ppm	0.0200 ppm
Concentration RSD	0.7 %	0.4 %	2.2 %	2.0 %	0.8 %	0.2 %	7.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0015 ppm	3.0233 ppm	0.0018 ppm	0.1771 ppm	0.2993 ppm	0.0000 ppm	0.1610 ppm
Concentration per Run 1	-0.0004 ppm	3.0431 ppm	0.0024 ppm	0.1758 ppm	0.3022 ppm	-0.0003 ppm	0.1627 ppm
Concentration per Run 2	-0.0030 ppm	3.0203 ppm	0.0008 ppm	0.1772 ppm	0.2974 ppm	-0.0009 ppm	0.1600 ppm
Concentration per Run 3	-0.0010 ppm	3.0065 ppm	0.0022 ppm	0.1782 ppm	0.2983 ppm	0.0014 ppm	0.1602 ppm
Concentration RSD	91.8 %	0.6 %	47.1 %	0.7 %	0.9 %	2,922.0 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2869 ppm	100.7322 %	110.8015 %	94.4411 %	124.2734 %	141.1735 %	127.1589 %
Concentration per Run 1	1.3004 ppm	99.9506 %	111.9984 %	94.5603 %	123.9476 %	142.3858 %	127.2740 %
Concentration per Run 2	1.2820 ppm	100.5340 %	110.8345 %	94.4698 %	123.5765 %	141.4379 %	127.2595 %
Concentration per Run 3	1.2781 ppm	101.7121 %	109.5716 %	94.2932 %	125.2962 %	139.6968 %	126.9431 %
Concentration RSD	0.9 %	0.9 %	1.1 %	0.1 %	0.7 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453704-01D2 WG1974886
Analysis started at: 9/25/2024 10:07:53 AM
Rack 1
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0038 ppm	80.8251 ppm	0.2084 ppm	0.0439 ppm	3.6787 ppm	0.0071 ppm	176.6878 ppm
Concentration per Run 1	0.0042 ppm	82.6753 ppm	0.2138 ppm	0.0445 ppm	3.7840 ppm	0.0073 ppm	180.2317 ppm
Concentration per Run 2	0.0035 ppm	80.1442 ppm	0.2103 ppm	0.0418 ppm	3.6474 ppm	0.0071 ppm	175.3328 ppm
Concentration per Run 3	0.0038 ppm	79.6559 ppm	0.2012 ppm	0.0455 ppm	3.6046 ppm	0.0070 ppm	174.4990 ppm
Concentration RSD	8.9 %	2.0 %	3.1 %	4.3 %	2.5 %	2.1 %	1.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0190 ppm	0.0709 ppm	0.5125 ppm	2.0397 ppm	241.9299 ppm	9.3615 ppm	0.1463 ppm
Concentration per Run 1	0.0190 ppm	0.0713 ppm	0.5161 ppm	2.0421 ppm	247.7751 ppm	9.5894 ppm	0.1506 ppm
Concentration per Run 2	0.0185 ppm	0.0689 ppm	0.4962 ppm	1.9781 ppm	240.0714 ppm	9.2899 ppm	0.1451 ppm
Concentration per Run 3	0.0194 ppm	0.0726 ppm	0.5252 ppm	2.0990 ppm	237.9434 ppm	9.2051 ppm	0.1432 ppm
Concentration RSD	2.6 %	2.6 %	2.9 %	3.0 %	2.1 %	2.2 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	49.7001 ppm	4.1865 ppm	0.0176 ppm	3.3662 ppm	0.1711 ppm	16.8713 ppm	0.0180 ppm
Concentration per Run 1	50.1992 ppm	4.2769 ppm	0.0178 ppm	3.4447 ppm	0.1723 ppm	17.3741 ppm	0.0178 ppm
Concentration per Run 2	48.2510 ppm	4.1601 ppm	0.0171 ppm	3.3374 ppm	0.1653 ppm	17.1305 ppm	0.0164 ppm
Concentration per Run 3	50.6499 ppm	4.1225 ppm	0.0181 ppm	3.3164 ppm	0.1758 ppm	16.1093 ppm	0.0199 ppm
Concentration RSD	2.6 %	1.9 %	3.0 %	2.0 %	3.1 %	4.0 %	9.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0128 ppm	7.2335 ppm	0.1115 ppm	1.0499 ppm	2.0472 ppm	0.0043 ppm	0.1972 ppm
Concentration per Run 1	0.0127 ppm	7.3238 ppm	0.1117 ppm	1.0755 ppm	2.0545 ppm	0.0050 ppm	0.1991 ppm
Concentration per Run 2	0.0110 ppm	6.9956 ppm	0.1073 ppm	1.0445 ppm	1.9920 ppm	0.0033 ppm	0.1910 ppm
Concentration per Run 3	0.0148 ppm	7.3810 ppm	0.1155 ppm	1.0298 ppm	2.0952 ppm	0.0047 ppm	0.2014 ppm
Concentration RSD	14.9 %	2.9 %	3.7 %	2.2 %	2.5 %	21.6 %	2.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.0971 ppm	97.5054 %	108.6245 %	90.9041 %	112.9470 %	130.2596 %	117.0776 %
Concentration per Run 1	7.1306 ppm	96.4315 %	106.8076 %	88.4357 %	112.5680 %	127.9890 %	115.4912 %
Concentration per Run 2	6.9117 ppm	100.1649 %	109.1682 %	89.3924 %	114.1563 %	131.1871 %	116.2591 %
Concentration per Run 3	7.2488 ppm	95.9197 %	109.8977 %	94.8840 %	112.1168 %	131.6026 %	119.4826 %
Concentration RSD	2.4 %	2.4 %	1.5 %	3.8 %	0.9 %	1.5 %	1.8 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: EL2454328-01D2 WG1974886
Analysis started at: 9/25/2024 10:11:48 AM
Rack 1
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0018 ppm	169.2440 ppm	0.0972 ppm	0.1637 ppm	1.4517 ppm	0.0166 ppm	950.2532 ppm
Concentration per Run 1	0.0017 ppm	170.3671 ppm	0.0975 ppm	0.1655 ppm	1.4556 ppm	0.0167 ppm	955.3690 ppm
Concentration per Run 2	0.0014 ppm	169.0072 ppm	0.0978 ppm	0.1640 ppm	1.4513 ppm	0.0165 ppm	948.1608 ppm
Concentration per Run 3	0.0022 ppm	168.3576 ppm	0.0964 ppm	0.1618 ppm	1.4483 ppm	0.0166 ppm	947.2298 ppm
Concentration RSD	22.4 %	0.6 %	0.7 %	1.1 %	0.3 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0063 ppm	0.0588 ppm	1.7572 ppm	1.0272 ppm	399.7871 ppm	11.8597 ppm	0.1359 ppm
Concentration per Run 1	0.0062 ppm	0.0588 ppm	1.7605 ppm	1.0315 ppm	402.2557 ppm	11.9672 ppm	0.1387 ppm
Concentration per Run 2	0.0063 ppm	0.0587 ppm	1.7687 ppm	1.0240 ppm	398.4262 ppm	11.8591 ppm	0.1359 ppm
Concentration per Run 3	0.0064 ppm	0.0588 ppm	1.7422 ppm	1.0261 ppm	398.6794 ppm	11.7530 ppm	0.1331 ppm
Concentration RSD	1.3 %	0.1 %	0.8 %	0.4 %	0.5 %	0.9 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	131.6486 ppm	47.0865 [SIC 100]	0.0222 ppm	7.2093 ppm	0.3055 ppm	1.1761 ppm	0.0098 ppm
Concentration per Run 1	131.5403 ppm	47.3634 ppm	0.0220 ppm	7.1955 ppm	0.3054 ppm	1.1776 ppm	0.0131 ppm
Concentration per Run 2	132.9958 ppm	46.9875 ppm	0.0225 ppm	7.2118 ppm	0.3087 ppm	1.1748 ppm	0.0081 ppm
Concentration per Run 3	130.4098 ppm	46.9087 ppm	0.0220 ppm	7.2207 ppm	0.3025 ppm	1.1759 ppm	0.0083 ppm
Concentration RSD	1.0 %	0.5 %	1.4 %	0.2 %	1.0 %	0.1 %	28.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0123 ppm	42.2706 [SIC 100]	0.0566 ppm	1.3191 ppm	4.9784 ppm	-0.0175 ppm	1.1307 ppm
Concentration per Run 1	0.0107 ppm	42.5097 ppm	0.0576 ppm	1.3267 ppm	4.9857 ppm	-0.0190 ppm	1.1300 ppm
Concentration per Run 2	0.0130 ppm	42.2597 ppm	0.0564 ppm	1.3164 ppm	4.9883 ppm	-0.0182 ppm	1.1352 ppm
Concentration per Run 3	0.0132 ppm	42.0424 ppm	0.0559 ppm	1.3143 ppm	4.9612 ppm	-0.0153 ppm	1.1268 ppm
Concentration RSD	11.2 %	0.6 %	1.5 %	0.5 %	0.3 %	11.2 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	28.8283 [SIC 50]	98.7397 %	113.6966 %	79.7337 %	110.6317 %	133.0113 %	110.4817 %
Concentration per Run 1	28.8633 ppm	98.5392 %	113.5375 %	80.0496 %	110.9688 %	133.1955 %	110.9401 %
Concentration per Run 2	29.2116 ppm	97.4927 %	114.0854 %	79.9263 %	108.7805 %	133.2805 %	110.6713 %
Concentration per Run 3	28.4101 ppm	100.1872 %	113.4670 %	79.2253 %	112.1460 %	132.5579 %	109.8337 %
Concentration RSD	1.4 %	1.4 %	0.3 %	0.6 %	1.5 %	0.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: EL2454328-02D2 WG1974886
Analysis started at: 9/25/2024 10:15:43 AM
Rack 1
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	238.0527 ppm	0.0847 ppm	0.1444 ppm	1.6164 ppm	0.0290 ppm	1,579.5895 [SIC 1500]
Concentration per Run 1	0.0008 ppm	238.5698 ppm	0.0878 ppm	0.1486 ppm	1.6262 ppm	0.0288 ppm	1,575.5321 ppm
Concentration per Run 2	0.0000 ppm	238.6429 ppm	0.0826 ppm	0.1438 ppm	1.6089 ppm	0.0289 ppm	1,587.4469 ppm
Concentration per Run 3	0.0005 ppm	236.9454 ppm	0.0837 ppm	0.1409 ppm	1.6142 ppm	0.0291 ppm	1,575.7894 ppm
Concentration RSD	89.3 %	0.4 %	3.3 %	2.7 %	0.5 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0057 ppm	0.0253 ppm	0.3069 ppm	0.5076 ppm	201.7912 ppm	13.7998 ppm	0.1836 ppm
Concentration per Run 1	-0.0058 ppm	0.0256 ppm	0.3113 ppm	0.5168 ppm	202.0019 ppm	13.9261 ppm	0.1888 ppm
Concentration per Run 2	-0.0059 ppm	0.0254 ppm	0.3061 ppm	0.5059 ppm	201.8897 ppm	13.7521 ppm	0.1839 ppm
Concentration per Run 3	-0.0056 ppm	0.0250 ppm	0.3034 ppm	0.5002 ppm	201.4819 ppm	13.7211 ppm	0.1782 ppm
Concentration RSD	3.2 %	1.2 %	1.3 %	1.7 %	0.1 %	0.8 %	2.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	109.7738 ppm	24.4240 [SIC 100]	0.0154 ppm	11.4755 ppm	0.0941 ppm	1.2585 ppm	0.0047 ppm
Concentration per Run 1	111.5254 ppm	24.4286 ppm	0.0158 ppm	11.5447 ppm	0.0949 ppm	1.2655 ppm	0.0060 ppm
Concentration per Run 2	109.5351 ppm	24.4506 ppm	0.0153 ppm	11.4762 ppm	0.0936 ppm	1.2631 ppm	0.0035 ppm
Concentration per Run 3	108.2610 ppm	24.3928 ppm	0.0151 ppm	11.4055 ppm	0.0937 ppm	1.2469 ppm	0.0045 ppm
Concentration RSD	1.5 %	0.1 %	2.3 %	0.6 %	0.8 %	0.8 %	26.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0220 ppm	35.7177 [SIC 100]	0.0207 ppm	2.9064 ppm	2.7826 ppm	-0.0080 ppm	0.1806 ppm
Concentration per Run 1	0.0225 ppm	36.6348 ppm	0.0222 ppm	2.9102 ppm	2.8303 ppm	-0.0101 ppm	0.1835 ppm
Concentration per Run 2	0.0207 ppm	35.4457 ppm	0.0188 ppm	2.8988 ppm	2.7754 ppm	-0.0084 ppm	0.1803 ppm
Concentration per Run 3	0.0228 ppm	35.0725 ppm	0.0210 ppm	2.9103 ppm	2.7421 ppm	-0.0054 ppm	0.1779 ppm
Concentration RSD	5.0 %	2.3 %	8.3 %	0.2 %	1.6 %	30.2 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.9451 ppm	91.6394 %	109.2334 %	79.7173 %	113.3498 %	140.5011 %	115.9056 %
Concentration per Run 1	1.9763 ppm	90.1295 %	110.3316 %	79.4444 %	112.5999 %	141.2422 %	115.7884 %
Concentration per Run 2	1.9470 ppm	91.9669 %	109.5614 %	79.7664 %	113.5874 %	141.1180 %	116.0392 %
Concentration per Run 3	1.9122 ppm	92.8217 %	107.8071 %	79.9410 %	113.8622 %	139.1431 %	115.8891 %
Concentration RSD	1.7 %	1.5 %	1.2 %	0.3 %	0.6 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: EL2454328-03D2 WG1974886
Analysis started at: 9/25/2024 10:19:37 AM
Rack 1
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	75.7269 ppm	0.1547 ppm	0.0795 ppm	0.8698 ppm	0.0051 ppm	407.1774 ppm
Concentration per Run 1	0.0003 ppm	75.4873 ppm	0.1552 ppm	0.0798 ppm	0.8730 ppm	0.0051 ppm	404.0199 ppm
Concentration per Run 2	-0.0003 ppm	75.8972 ppm	0.1539 ppm	0.0788 ppm	0.8697 ppm	0.0052 ppm	409.4994 ppm
Concentration per Run 3	-0.0002 ppm	75.7962 ppm	0.1551 ppm	0.0798 ppm	0.8668 ppm	0.0051 ppm	408.0127 ppm
Concentration RSD	413.5 %	0.3 %	0.5 %	0.8 %	0.4 %	0.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0051 ppm	0.0641 ppm	0.5038 ppm	0.5272 ppm	864.5202 [SIC 500]	8.9079 ppm	0.0992 ppm
Concentration per Run 1	0.0052 ppm	0.0636 ppm	0.5058 ppm	0.5283 ppm	856.5656 ppm	8.8782 ppm	0.0992 ppm
Concentration per Run 2	0.0055 ppm	0.0649 ppm	0.5018 ppm	0.5268 ppm	872.6436 ppm	8.9682 ppm	0.1004 ppm
Concentration per Run 3	0.0047 ppm	0.0639 ppm	0.5037 ppm	0.5265 ppm	864.3513 ppm	8.8773 ppm	0.0981 ppm
Concentration RSD	7.8 %	1.1 %	0.4 %	0.2 %	0.9 %	0.6 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.8532 ppm	36.3622 [SIC 100]	0.0167 ppm	3.0330 ppm	0.2258 ppm	1.2660 ppm	0.0293 ppm
Concentration per Run 1	26.8965 ppm	36.1225 ppm	0.0170 ppm	3.0221 ppm	0.2257 ppm	1.2629 ppm	0.0251 ppm
Concentration per Run 2	26.7349 ppm	36.5606 ppm	0.0166 ppm	3.0482 ppm	0.2253 ppm	1.2651 ppm	0.0321 ppm
Concentration per Run 3	26.9281 ppm	36.4034 ppm	0.0164 ppm	3.0287 ppm	0.2264 ppm	1.2702 ppm	0.0306 ppm
Concentration RSD	0.4 %	0.6 %	2.0 %	0.4 %	0.3 %	0.3 %	12.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0074 ppm	17.4412 ppm	0.0491 ppm	0.7311 ppm	3.0696 ppm	-0.0144 ppm	0.3217 ppm
Concentration per Run 1	0.0046 ppm	17.5512 ppm	0.0495 ppm	0.7295 ppm	3.0772 ppm	-0.0162 ppm	0.3226 ppm
Concentration per Run 2	0.0076 ppm	17.3895 ppm	0.0482 ppm	0.7323 ppm	3.0599 ppm	-0.0124 ppm	0.3203 ppm
Concentration per Run 3	0.0100 ppm	17.3828 ppm	0.0496 ppm	0.7314 ppm	3.0716 ppm	-0.0147 ppm	0.3222 ppm
Concentration RSD	37.0 %	0.5 %	1.6 %	0.2 %	0.3 %	13.2 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.6295 ppm	95.0691 %	107.3768 %	76.1595 %	97.8235 %	114.1382 %	97.6754 %
Concentration per Run 1	3.6276 ppm	95.0634 %	109.3737 %	76.2787 %	98.1528 %	115.7385 %	97.4923 %
Concentration per Run 2	3.6182 ppm	95.2857 %	105.7869 %	76.1905 %	97.8706 %	112.7704 %	97.6619 %
Concentration per Run 3	3.6428 ppm	94.8581 %	106.9698 %	76.0093 %	97.4471 %	113.9059 %	97.8720 %
Concentration RSD	0.3 %	0.2 %	1.7 %	0.2 %	0.4 %	1.3 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454436-02D2 WG1974886
Analysis started at: 9/25/2024 10:23:32 AM
Rack 1
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0068 ppm	109.2633 ppm	0.3770 ppm	0.2177 ppm	1.6704 ppm	0.0148 ppm	168.6603 ppm
Concentration per Run 1	0.0067 ppm	109.1111 ppm	0.3807 ppm	0.2203 ppm	1.6771 ppm	0.0149 ppm	168.8780 ppm
Concentration per Run 2	0.0071 ppm	109.4761 ppm	0.3759 ppm	0.2174 ppm	1.6626 ppm	0.0148 ppm	168.6629 ppm
Concentration per Run 3	0.0066 ppm	109.2029 ppm	0.3746 ppm	0.2154 ppm	1.6716 ppm	0.0148 ppm	168.4402 ppm
Concentration RSD	3.8 %	0.2 %	0.8 %	1.1 %	0.4 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0111 ppm	0.3740 ppm	0.3421 ppm	4.0616 ppm	301.9997 ppm	11.0263 ppm	0.1811 ppm
Concentration per Run 1	0.0112 ppm	0.3771 ppm	0.3454 ppm	4.1020 ppm	303.2155 ppm	11.1074 ppm	0.1815 ppm
Concentration per Run 2	0.0112 ppm	0.3736 ppm	0.3412 ppm	4.0494 ppm	301.0950 ppm	10.9537 ppm	0.1805 ppm
Concentration per Run 3	0.0110 ppm	0.3712 ppm	0.3397 ppm	4.0335 ppm	301.6887 ppm	11.0178 ppm	0.1814 ppm
Concentration RSD	1.2 %	0.8 %	0.9 %	0.9 %	0.4 %	0.7 %	0.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	73.9538 ppm	5.0113 ppm	0.0270 ppm	4.0629 ppm	0.4309 ppm	6.5317 ppm	0.2008 ppm
Concentration per Run 1	74.5544 ppm	5.0122 ppm	0.0273 ppm	4.0454 ppm	0.4339 ppm	6.5400 ppm	0.2037 ppm
Concentration per Run 2	73.9631 ppm	5.0144 ppm	0.0271 ppm	4.0688 ppm	0.4313 ppm	6.5434 ppm	0.1977 ppm
Concentration per Run 3	73.3440 ppm	5.0074 ppm	0.0266 ppm	4.0746 ppm	0.4273 ppm	6.5118 ppm	0.2011 ppm
Concentration RSD	0.8 %	0.1 %	1.4 %	0.4 %	0.8 %	0.3 %	1.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0134 ppm	14.7655 ppm	0.7605 ppm	0.7904 ppm	3.6515 ppm	0.0037 ppm	0.3753 ppm
Concentration per Run 1	0.0148 ppm	14.9788 ppm	0.7635 ppm	0.7926 ppm	3.6755 ppm	0.0040 ppm	0.3790 ppm
Concentration per Run 2	0.0134 ppm	14.7434 ppm	0.7598 ppm	0.7879 ppm	3.6518 ppm	0.0012 ppm	0.3746 ppm
Concentration per Run 3	0.0119 ppm	14.5743 ppm	0.7582 ppm	0.7908 ppm	3.6271 ppm	0.0058 ppm	0.3723 ppm
Concentration RSD	10.6 %	1.4 %	0.4 %	0.3 %	0.7 %	62.9 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	18.1355 ppm	97.4471 %	110.1161 %	86.8550 %	117.6818 %	135.9197 %	119.1493 %
Concentration per Run 1	18.2260 ppm	96.7518 %	109.8548 %	86.4775 %	117.3981 %	135.8869 %	118.7243 %
Concentration per Run 2	18.1818 ppm	97.2206 %	109.9902 %	86.7814 %	117.4787 %	135.6764 %	119.0797 %
Concentration per Run 3	17.9986 ppm	98.3690 %	110.5034 %	87.3060 %	118.1687 %	136.1958 %	119.6439 %
Concentration RSD	0.7 %	0.9 %	0.3 %	0.5 %	0.4 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454436-05D2 WG1974886
Analysis started at: 9/25/2024 10:27:28 AM
Rack 1
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0073 ppm	89.6398 ppm	0.2662 ppm	0.1665 ppm	1.2853 ppm	0.0102 ppm	180.2979 ppm
Concentration per Run 1	0.0072 ppm	89.9363 ppm	0.2681 ppm	0.1680 ppm	1.2893 ppm	0.0103 ppm	181.4052 ppm
Concentration per Run 2	0.0075 ppm	89.4026 ppm	0.2667 ppm	0.1649 ppm	1.2798 ppm	0.0102 ppm	179.1756 ppm
Concentration per Run 3	0.0072 ppm	89.5805 ppm	0.2639 ppm	0.1665 ppm	1.2868 ppm	0.0101 ppm	180.3130 ppm
Concentration RSD	2.4 %	0.3 %	0.8 %	0.9 %	0.4 %	0.8 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0076 ppm	0.2998 ppm	0.3270 ppm	3.2632 ppm	253.4494 ppm	8.9000 ppm	0.1414 ppm
Concentration per Run 1	0.0075 ppm	0.3018 ppm	0.3291 ppm	3.2893 ppm	254.3113 ppm	8.9913 ppm	0.1429 ppm
Concentration per Run 2	0.0077 ppm	0.2998 ppm	0.3278 ppm	3.2571 ppm	251.4124 ppm	8.8316 ppm	0.1398 ppm
Concentration per Run 3	0.0075 ppm	0.2977 ppm	0.3242 ppm	3.2432 ppm	254.6243 ppm	8.8771 ppm	0.1416 ppm
Concentration RSD	1.3 %	0.7 %	0.8 %	0.7 %	0.7 %	0.9 %	1.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	70.9440 ppm	4.5427 ppm	0.0241 ppm	3.2678 ppm	0.3096 ppm	7.7635 ppm	0.1215 ppm
Concentration per Run 1	71.3454 ppm	4.5666 ppm	0.0242 ppm	3.2895 ppm	0.3100 ppm	7.7951 ppm	0.1217 ppm
Concentration per Run 2	70.9208 ppm	4.5222 ppm	0.0243 ppm	3.2461 ppm	0.3113 ppm	7.7621 ppm	0.1207 ppm
Concentration per Run 3	70.5657 ppm	4.5393 ppm	0.0239 ppm	3.2678 ppm	0.3075 ppm	7.7334 ppm	0.1221 ppm
Concentration RSD	0.6 %	0.5 %	1.0 %	0.7 %	0.6 %	0.4 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0149 ppm	18.1202 ppm	0.5264 ppm	0.7885 ppm	2.7801 ppm	0.0022 ppm	0.3374 ppm
Concentration per Run 1	0.0144 ppm	18.2688 ppm	0.5302 ppm	0.7912 ppm	2.7920 ppm	0.0029 ppm	0.3410 ppm
Concentration per Run 2	0.0145 ppm	18.1203 ppm	0.5250 ppm	0.7886 ppm	2.7792 ppm	0.0013 ppm	0.3359 ppm
Concentration per Run 3	0.0159 ppm	17.9715 ppm	0.5240 ppm	0.7857 ppm	2.7692 ppm	0.0025 ppm	0.3354 ppm
Concentration RSD	5.4 %	0.8 %	0.6 %	0.3 %	0.4 %	38.4 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	13.4217 ppm	97.8141 %	110.1386 %	88.4160 %	115.6201 %	132.4947 %	116.7540 %
Concentration per Run 1	13.4485 ppm	97.2543 %	109.1237 %	88.1868 %	115.9993 %	131.6096 %	116.7687 %
Concentration per Run 2	13.4905 ppm	97.9949 %	112.1001 %	88.5905 %	115.4529 %	134.6829 %	116.9089 %
Concentration per Run 3	13.3260 ppm	98.1929 %	109.1919 %	88.4708 %	115.4081 %	131.1915 %	116.5843 %
Concentration RSD	0.6 %	0.5 %	1.5 %	0.2 %	0.3 %	1.4 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453382-01D4 WG1974886
Analysis started at: 9/25/2024 10:31:23 AM
Rack 1
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0029 ppm	32.6906 ppm	0.0827 ppm	0.0589 ppm	2.7101 ppm	0.0018 ppm	406.4008 ppm
Concentration per Run 1	0.0028 ppm	32.5675 ppm	0.0812 ppm	0.0603 ppm	2.7000 ppm	0.0018 ppm	405.0700 ppm
Concentration per Run 2	0.0025 ppm	32.7056 ppm	0.0819 ppm	0.0586 ppm	2.7225 ppm	0.0017 ppm	405.9507 ppm
Concentration per Run 3	0.0036 ppm	32.7986 ppm	0.0848 ppm	0.0578 ppm	2.7076 ppm	0.0018 ppm	408.1818 ppm
Concentration RSD	19.1 %	0.4 %	2.3 %	2.2 %	0.4 %	2.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0158 ppm	0.1123 ppm	6.4388 ppm	1.8891 ppm	310.1674 ppm	3.2006 ppm	0.0656 ppm
Concentration per Run 1	0.0156 ppm	0.1130 ppm	6.4559 ppm	1.9051 ppm	308.7451 ppm	3.2093 ppm	0.0666 ppm
Concentration per Run 2	0.0160 ppm	0.1124 ppm	6.4394 ppm	1.8901 ppm	310.3135 ppm	3.1898 ppm	0.0649 ppm
Concentration per Run 3	0.0159 ppm	0.1115 ppm	6.4210 ppm	1.8720 ppm	311.4436 ppm	3.2028 ppm	0.0652 ppm
Concentration RSD	1.4 %	0.7 %	0.3 %	0.9 %	0.4 %	0.3 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	30.0320 ppm	2.5598 ppm	0.0621 ppm	0.8848 ppm	3.0232 ppm	14.3609 ppm	0.0449 ppm
Concentration per Run 1	30.2382 ppm	2.5437 ppm	0.0615 ppm	0.8860 ppm	3.0203 ppm	14.4150 ppm	0.0482 ppm
Concentration per Run 2	29.9776 ppm	2.5567 ppm	0.0619 ppm	0.8866 ppm	3.0411 ppm	14.3196 ppm	0.0452 ppm
Concentration per Run 3	29.8802 ppm	2.5791 ppm	0.0629 ppm	0.8819 ppm	3.0081 ppm	14.3481 ppm	0.0412 ppm
Concentration RSD	0.6 %	0.7 %	1.1 %	0.3 %	0.6 %	0.3 %	7.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	1.7716 ppm	1.0628 ppm	1.2372 ppm	12.9850 ppm	0.0041 ppm	0.1124 ppm
Concentration per Run 1	-0.0014 ppm	1.8009 ppm	1.0599 ppm	1.2378 ppm	13.0663 ppm	0.0028 ppm	0.1133 ppm
Concentration per Run 2	0.0027 ppm	1.7645 ppm	1.0662 ppm	1.2394 ppm	12.9984 ppm	0.0067 ppm	0.1126 ppm
Concentration per Run 3	0.0012 ppm	1.7493 ppm	1.0623 ppm	1.2343 ppm	12.8903 ppm	0.0027 ppm	0.1114 ppm
Concentration RSD	259.1 %	1.5 %	0.3 %	0.2 %	0.7 %	55.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	8.7001 ppm	94.0825 %	106.5859 %	74.1495 %	101.2370 %	117.3840 %	102.0257 %
Concentration per Run 1	8.6636 ppm	93.5511 %	107.4067 %	74.0887 %	100.8029 %	118.0813 %	102.0880 %
Concentration per Run 2	8.7230 ppm	94.2488 %	107.1892 %	74.6181 %	101.5796 %	118.0414 %	102.3608 %
Concentration per Run 3	8.7136 ppm	94.4476 %	105.1619 %	73.7418 %	101.3285 %	116.0293 %	101.6284 %
Concentration RSD	0.4 %	0.5 %	1.2 %	0.6 %	0.4 %	1.0 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 10:35:19 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5035 ppm	0.4845 ppm	0.4828 ppm	0.4953 ppm	0.5056 ppm	0.5143 ppm	0.4953 ppm
Concentration per Run 1	0.5068 ppm	0.4895 ppm	0.4792 ppm	0.4969 ppm	0.5052 ppm	0.5158 ppm	0.4960 ppm
Concentration per Run 2	0.5013 ppm	0.4773 ppm	0.4838 ppm	0.4928 ppm	0.5052 ppm	0.5169 ppm	0.4941 ppm
Concentration per Run 3	0.5026 ppm	0.4867 ppm	0.4854 ppm	0.4960 ppm	0.5064 ppm	0.5103 ppm	0.4958 ppm
Recovery Percentage 1	100.709 %	96.900 %	96.559 %	99.051 %	101.116 %	102.865 %	99.061 %
Concentration RSD	0.6 %	1.3 %	0.7 %	0.4 %	0.1 %	0.7 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5087 ppm	0.5076 ppm	0.5006 ppm	0.4916 ppm	0.5279 ppm	5.2312 ppm	0.4897 ppm
Concentration per Run 1	0.5104 ppm	0.5103 ppm	0.5039 ppm	0.4953 ppm	0.5263 ppm	5.2995 ppm	0.4922 ppm
Concentration per Run 2	0.5078 ppm	0.5061 ppm	0.4969 ppm	0.4908 ppm	0.5301 ppm	5.2345 ppm	0.4902 ppm
Concentration per Run 3	0.5080 ppm	0.5064 ppm	0.5009 ppm	0.4886 ppm	0.5273 ppm	5.1597 ppm	0.4867 ppm
Recovery Percentage 1	101.746 %	101.522 %	100.118 %	98.312 %	105.585 %	104.625 %	97.932 %
Concentration RSD	0.3 %	0.5 %	0.7 %	0.7 %	0.4 %	1.3 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4926 ppm	0.5020 ppm	0.5003 ppm	10.0424 ppm	0.5106 ppm	0.5002 ppm	0.5000 ppm
Concentration per Run 1	0.4960 ppm	0.5033 ppm	0.4979 ppm	10.0690 ppm	0.5136 ppm	0.4999 ppm	0.5040 ppm
Concentration per Run 2	0.4911 ppm	0.5006 ppm	0.4983 ppm	10.0379 ppm	0.5074 ppm	0.4987 ppm	0.5002 ppm
Concentration per Run 3	0.4908 ppm	0.5020 ppm	0.5046 ppm	10.0204 ppm	0.5108 ppm	0.5021 ppm	0.4959 ppm
Recovery Percentage 1	98.524 %	100.391 %	100.057 %	100.424 %	102.120 %	100.046 %	100.002 %
Concentration RSD	0.6 %	0.3 %	0.8 %	0.2 %	0.6 %	0.3 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4904 ppm	5.5940 ppm	0.4877 ppm	0.4867 ppm	0.5096 ppm	0.4994 ppm	0.5015 ppm
Concentration per Run 1	0.4872 ppm	5.6097 ppm	0.4889 ppm	0.4858 ppm	0.5134 ppm	0.4996 ppm	0.5052 ppm
Concentration per Run 2	0.4916 ppm	5.5787 ppm	0.4857 ppm	0.4874 ppm	0.5072 ppm	0.4966 ppm	0.4994 ppm
Concentration per Run 3	0.4924 ppm	5.5937 ppm	0.4886 ppm	0.4868 ppm	0.5083 ppm	0.5019 ppm	0.4999 ppm
Recovery Percentage 1	98.075 %	106.553 %	97.540 %	97.335 %	101.927 %	99.876 %	100.300 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.2 %	0.6 %	0.5 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5074 ppm	97.1088 %	104.1003 %	97.6579 %	93.6933 %	102.1834 %	95.9802 %
Concentration per Run 1	0.5102 ppm	96.3900 %	103.7771 %	97.9367 %	93.2602 %	101.9726 %	96.3235 %
Concentration per Run 2	0.5044 ppm	97.5932 %	104.2913 %	97.6970 %	94.1697 %	102.1074 %	95.7544 %
Concentration per Run 3	0.5077 ppm	97.3431 %	104.2325 %	97.3398 %	93.6502 %	102.4700 %	95.8628 %
Recovery Percentage 1	101.487 %						
Concentration RSD	0.6 %	0.7 %	0.3 %	0.3 %	0.5 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 10:39:17 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0116 ppm	0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0049 ppm
Concentration per Run 1	-0.0001 ppm	-0.0144 ppm	0.0003 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0043 ppm
Concentration per Run 2	-0.0002 ppm	-0.0102 ppm	-0.0004 ppm	0.0020 ppm	-0.0001 ppm	0.0000 ppm	-0.0042 ppm
Concentration per Run 3	0.0004 ppm	-0.0102 ppm	0.0014 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0062 ppm
Recovery Percentage 1	0.693 %	-11.582 %	14.248 %	3.042 %	-0.400 %	-0.775 %	-4.911 %
Concentration RSD	683.5 %	21.0 %	207.7 %	157.2 %	180.8 %	99.7 %	22.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0012 ppm	0.0086 ppm	-0.0296 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0014 ppm	0.0090 ppm	-0.0383 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0010 ppm	0.0095 ppm	-0.0205 ppm	-0.0005 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0013 ppm	0.0075 ppm	-0.0301 ppm	-0.0001 ppm
Recovery Percentage 1	0.947 %	0.780 %	4.658 %	12.380 %	17.294 %	-1.184 %	0.104 %
Concentration RSD	216.1 %	162.8 %	5.0 %	18.7 %	11.7 %	30.1 %	5,171.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0002 ppm	0.0017 ppm	-0.0200 ppm	0.0004 ppm	0.0010 ppm	-0.0025 ppm
Concentration per Run 1	0.0008 ppm	0.0001 ppm	0.0019 ppm	-0.0214 ppm	0.0002 ppm	0.0022 ppm	-0.0012 ppm
Concentration per Run 2	-0.0007 ppm	0.0001 ppm	0.0018 ppm	-0.0224 ppm	0.0005 ppm	0.0004 ppm	-0.0032 ppm
Concentration per Run 3	-0.0030 ppm	0.0005 ppm	0.0013 ppm	-0.0162 ppm	0.0003 ppm	0.0004 ppm	-0.0032 ppm
Recovery Percentage 1	-0.954 %	2.432 %	3.384 %	-1.002 %	1.437 %	9.857 %	-5.034 %
Concentration RSD	198.0 %	101.0 %	20.8 %	16.6 %	42.3 %	102.5 %	46.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	0.0108 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0011 ppm	0.0112 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 2	-0.0004 ppm	0.0108 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0015 ppm	0.0103 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0004 ppm
Recovery Percentage 1	0.018 %	2.153 %	-0.509 %	-0.424 %	2.058 %	0.902 %	1.159 %
Concentration RSD	76,168.3 %	3.9 %	144.2 %	140.1 %	137.0 %	248.0 %	188.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	93.5111 %	101.2851 %	95.7348 %	94.9113 %	101.7614 %	96.6185 %
Concentration per Run 1	0.0006 ppm	91.5312 %	101.9944 %	95.1585 %	93.8285 %	103.1026 %	96.1049 %
Concentration per Run 2	0.0005 ppm	93.5658 %	101.2212 %	96.0676 %	94.8067 %	101.6234 %	96.9885 %
Concentration per Run 3	0.0003 ppm	95.4362 %	100.6399 %	95.9781 %	96.0987 %	100.5580 %	96.7621 %
Recovery Percentage 1	9.617 %						
Concentration RSD	25.9 %	2.1 %	0.7 %	0.5 %	1.2 %	1.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453616-01D2 WG1974561
Analysis started at: 9/25/2024 10:43:24 AM
Rack 1
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0020 ppm	101.9046 ppm	0.0965 ppm	0.0456 ppm	0.9857 ppm	0.0066 ppm	154.7974 ppm
Concentration per Run 1	0.0023 ppm	101.7113 ppm	0.0964 ppm	0.0470 ppm	0.9920 ppm	0.0066 ppm	154.4815 ppm
Concentration per Run 2	0.0017 ppm	101.9849 ppm	0.0943 ppm	0.0452 ppm	0.9906 ppm	0.0065 ppm	154.7451 ppm
Concentration per Run 3	0.0020 ppm	102.0176 ppm	0.0988 ppm	0.0446 ppm	0.9746 ppm	0.0067 ppm	155.1657 ppm
Concentration RSD	14.3 %	0.2 %	2.3 %	2.8 %	1.0 %	1.1 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0045 ppm	0.0871 ppm	0.2720 ppm	0.7026 ppm	296.9026 ppm	20.9702 ppm	0.1128 ppm
Concentration per Run 1	0.0047 ppm	0.0879 ppm	0.2755 ppm	0.7093 ppm	297.9167 ppm	21.0128 ppm	0.1150 ppm
Concentration per Run 2	0.0043 ppm	0.0859 ppm	0.2703 ppm	0.7009 ppm	297.6851 ppm	21.0120 ppm	0.1125 ppm
Concentration per Run 3	0.0045 ppm	0.0874 ppm	0.2702 ppm	0.6975 ppm	295.1059 ppm	20.8857 ppm	0.1108 ppm
Concentration RSD	4.1 %	1.2 %	1.1 %	0.9 %	0.5 %	0.3 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	62.4646 ppm	4.2806 ppm	0.0097 ppm	4.1651 ppm	0.2283 ppm	1.5718 ppm	0.0226 ppm
Concentration per Run 1	63.1077 ppm	4.2783 ppm	0.0100 ppm	4.1499 ppm	0.2309 ppm	1.5732 ppm	0.0207 ppm
Concentration per Run 2	61.9917 ppm	4.2764 ppm	0.0094 ppm	4.1671 ppm	0.2268 ppm	1.5744 ppm	0.0217 ppm
Concentration per Run 3	62.2945 ppm	4.2872 ppm	0.0096 ppm	4.1784 ppm	0.2270 ppm	1.5677 ppm	0.0253 ppm
Concentration RSD	0.9 %	0.1 %	3.1 %	0.3 %	1.0 %	0.2 %	10.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0052 ppm	4.5909 ppm	0.0626 ppm	0.6965 ppm	4.3154 ppm	0.0032 ppm	0.4405 ppm
Concentration per Run 1	0.0057 ppm	4.6444 ppm	0.0617 ppm	0.6960 ppm	4.3635 ppm	0.0020 ppm	0.4423 ppm
Concentration per Run 2	0.0051 ppm	4.5534 ppm	0.0627 ppm	0.6957 ppm	4.2993 ppm	0.0048 ppm	0.4405 ppm
Concentration per Run 3	0.0046 ppm	4.5749 ppm	0.0635 ppm	0.6978 ppm	4.2834 ppm	0.0029 ppm	0.4388 ppm
Concentration RSD	10.3 %	1.0 %	1.5 %	0.2 %	1.0 %	43.9 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.7128 ppm	99.2687 %	111.1863 %	88.3395 %	117.9225 %	135.7087 %	119.8936 %
Concentration per Run 1	1.7387 ppm	98.7298 %	110.4824 %	88.5431 %	117.5429 %	134.3455 %	120.0090 %
Concentration per Run 2	1.6878 ppm	100.2401 %	112.2928 %	88.2684 %	119.2685 %	137.1611 %	119.9834 %
Concentration per Run 3	1.7121 ppm	98.8364 %	110.7837 %	88.2072 %	116.9561 %	135.6194 %	119.6885 %
Concentration RSD	1.5 %	0.8 %	0.9 %	0.2 %	1.0 %	1.0 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453616-03D2 WG1974561
Analysis started at: 9/25/2024 10:47:21 AM
Rack 1
Vial 46
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	119.1266 ppm	0.0827 ppm	0.0392 ppm	1.0335 ppm	0.0080 ppm	97.9380 ppm
Concentration per Run 1	0.0017 ppm	119.5646 ppm	0.0824 ppm	0.0411 ppm	1.0365 ppm	0.0080 ppm	98.2068 ppm
Concentration per Run 2	0.0021 ppm	119.0645 ppm	0.0841 ppm	0.0382 ppm	1.0357 ppm	0.0082 ppm	97.8717 ppm
Concentration per Run 3	0.0020 ppm	118.7505 ppm	0.0816 ppm	0.0382 ppm	1.0284 ppm	0.0080 ppm	97.7356 ppm
Concentration RSD	9.6 %	0.3 %	1.5 %	4.2 %	0.4 %	1.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0052 ppm	0.0964 ppm	0.2888 ppm	0.7339 ppm	260.5923 ppm	25.8776 ppm	0.1340 ppm
Concentration per Run 1	0.0052 ppm	0.0985 ppm	0.2956 ppm	0.7511 ppm	261.6016 ppm	25.9627 ppm	0.1345 ppm
Concentration per Run 2	0.0054 ppm	0.0963 ppm	0.2880 ppm	0.7352 ppm	259.8942 ppm	25.8226 ppm	0.1353 ppm
Concentration per Run 3	0.0050 ppm	0.0945 ppm	0.2828 ppm	0.7156 ppm	260.2812 ppm	25.8475 ppm	0.1321 ppm
Concentration RSD	3.5 %	2.1 %	2.2 %	2.4 %	0.3 %	0.3 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	55.7421 ppm	3.8017 ppm	0.0124 ppm	4.7726 ppm	0.2097 ppm	1.7373 ppm	0.0275 ppm
Concentration per Run 1	57.0089 ppm	3.8173 ppm	0.0130 ppm	4.7968 ppm	0.2157 ppm	1.7316 ppm	0.0318 ppm
Concentration per Run 2	55.5934 ppm	3.7959 ppm	0.0125 ppm	4.7720 ppm	0.2084 ppm	1.7417 ppm	0.0283 ppm
Concentration per Run 3	54.6239 ppm	3.7918 ppm	0.0116 ppm	4.7489 ppm	0.2049 ppm	1.7386 ppm	0.0223 ppm
Concentration RSD	2.2 %	0.4 %	5.7 %	0.5 %	2.6 %	0.3 %	17.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	3.3048 ppm	0.0780 ppm	0.3878 ppm	4.9408 ppm	0.0047 ppm	0.4632 ppm
Concentration per Run 1	0.0040 ppm	3.3817 ppm	0.0813 ppm	0.3872 ppm	5.0719 ppm	0.0068 ppm	0.4752 ppm
Concentration per Run 2	0.0037 ppm	3.3046 ppm	0.0767 ppm	0.3903 ppm	4.9186 ppm	0.0041 ppm	0.4602 ppm
Concentration per Run 3	0.0045 ppm	3.2282 ppm	0.0761 ppm	0.3859 ppm	4.8321 ppm	0.0034 ppm	0.4541 ppm
Concentration RSD	9.0 %	2.3 %	3.6 %	0.6 %	2.5 %	37.3 %	2.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0408 ppm	100.0650 %	112.1963 %	90.2295 %	120.2939 %	137.5404 %	123.1575 %
Concentration per Run 1	2.0985 ppm	98.0843 %	112.1425 %	90.7039 %	119.0794 %	137.2830 %	123.8065 %
Concentration per Run 2	2.0402 ppm	100.3230 %	112.9091 %	89.9938 %	120.9066 %	138.3057 %	122.9355 %
Concentration per Run 3	1.9836 ppm	101.7879 %	111.5373 %	89.9909 %	120.8956 %	137.0324 %	122.7304 %
Concentration RSD	2.8 %	1.9 %	0.6 %	0.5 %	0.9 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453616-05D2 WG1974561
Analysis started at: 9/25/2024 10:51:17 AM
Rack 1
Vial 47
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	104.7063 ppm	0.0880 ppm	0.0449 ppm	1.1269 ppm	0.0062 ppm	218.8174 ppm
Concentration per Run 1	0.0023 ppm	104.4957 ppm	0.0872 ppm	0.0451 ppm	1.1291 ppm	0.0062 ppm	218.3379 ppm
Concentration per Run 2	0.0025 ppm	105.0851 ppm	0.0883 ppm	0.0447 ppm	1.1269 ppm	0.0062 ppm	219.4792 ppm
Concentration per Run 3	0.0028 ppm	104.5382 ppm	0.0884 ppm	0.0449 ppm	1.1247 ppm	0.0062 ppm	218.6350 ppm
Concentration RSD	9.5 %	0.3 %	0.8 %	0.5 %	0.2 %	0.5 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0072 ppm	0.0944 ppm	0.3153 ppm	0.8781 ppm	302.0805 ppm	24.2519 ppm	0.1168 ppm
Concentration per Run 1	0.0072 ppm	0.0956 ppm	0.3177 ppm	0.8852 ppm	301.3138 ppm	24.3528 ppm	0.1185 ppm
Concentration per Run 2	0.0072 ppm	0.0937 ppm	0.3142 ppm	0.8752 ppm	303.5468 ppm	24.2608 ppm	0.1153 ppm
Concentration per Run 3	0.0071 ppm	0.0939 ppm	0.3140 ppm	0.8740 ppm	301.3808 ppm	24.1422 ppm	0.1165 ppm
Concentration RSD	0.6 %	1.1 %	0.7 %	0.7 %	0.4 %	0.4 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	105.8222 ppm	4.3328 ppm	0.0143 ppm	2.8842 ppm	0.2722 ppm	2.4363 ppm	0.0380 ppm
Concentration per Run 1	106.5984 ppm	4.3265 ppm	0.0141 ppm	2.8788 ppm	0.2743 ppm	2.4506 ppm	0.0373 ppm
Concentration per Run 2	105.5478 ppm	4.3509 ppm	0.0141 ppm	2.9059 ppm	0.2694 ppm	2.4360 ppm	0.0378 ppm
Concentration per Run 3	105.3203 ppm	4.3209 ppm	0.0146 ppm	2.8679 ppm	0.2729 ppm	2.4222 ppm	0.0388 ppm
Concentration RSD	0.6 %	0.4 %	2.3 %	0.7 %	0.9 %	0.6 %	2.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	4.2586 ppm	0.0982 ppm	0.6245 ppm	4.7618 ppm	0.0051 ppm	0.8706 ppm
Concentration per Run 1	0.0034 ppm	4.2923 ppm	0.0987 ppm	0.6207 ppm	4.7930 ppm	0.0071 ppm	0.8749 ppm
Concentration per Run 2	0.0020 ppm	4.2523 ppm	0.0974 ppm	0.6255 ppm	4.7502 ppm	0.0040 ppm	0.8727 ppm
Concentration per Run 3	0.0010 ppm	4.2312 ppm	0.0986 ppm	0.6272 ppm	4.7422 ppm	0.0042 ppm	0.8641 ppm
Concentration RSD	56.5 %	0.7 %	0.7 %	0.5 %	0.6 %	34.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2025 ppm	97.5628 %	109.7560 %	85.7585 %	117.1979 %	134.7491 %	118.3814 %
Concentration per Run 1	2.2131 ppm	96.8496 %	110.4352 %	85.4905 %	116.8709 %	135.6464 %	118.3178 %
Concentration per Run 2	2.1878 ppm	98.0433 %	108.1574 %	85.5605 %	117.5181 %	132.8295 %	117.9280 %
Concentration per Run 3	2.2064 ppm	97.7954 %	110.6754 %	86.2246 %	117.2046 %	135.7716 %	118.8983 %
Concentration RSD	0.6 %	0.6 %	1.3 %	0.5 %	0.3 %	1.2 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453616-07D2 WG1974561
Analysis started at: 9/25/2024 10:55:15 AM
Rack 1
Vial 48
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0049 ppm	98.0078 ppm	0.0796 ppm	0.0467 ppm	1.2197 ppm	0.0053 ppm	251.6354 ppm
Concentration per Run 1	0.0049 ppm	97.9365 ppm	0.0798 ppm	0.0463 ppm	1.2201 ppm	0.0052 ppm	251.0594 ppm
Concentration per Run 2	0.0050 ppm	98.2727 ppm	0.0789 ppm	0.0476 ppm	1.2193 ppm	0.0053 ppm	252.3145 ppm
Concentration per Run 3	0.0048 ppm	97.8141 ppm	0.0801 ppm	0.0462 ppm	1.2197 ppm	0.0053 ppm	251.5323 ppm
Concentration RSD	1.2 %	0.2 %	0.8 %	1.7 %	0.0 %	0.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0064 ppm	0.0796 ppm	0.2765 ppm	2.0967 ppm	226.6761 ppm	20.5244 ppm	0.1004 ppm
Concentration per Run 1	0.0065 ppm	0.0804 ppm	0.2775 ppm	2.1051 ppm	226.0427 ppm	20.5755 ppm	0.1025 ppm
Concentration per Run 2	0.0063 ppm	0.0792 ppm	0.2756 ppm	2.0884 ppm	226.6097 ppm	20.5821 ppm	0.1004 ppm
Concentration per Run 3	0.0065 ppm	0.0792 ppm	0.2763 ppm	2.0965 ppm	227.3758 ppm	20.4156 ppm	0.0984 ppm
Concentration RSD	2.3 %	0.8 %	0.3 %	0.4 %	0.3 %	0.5 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	60.7776 ppm	3.0724 ppm	0.0116 ppm	2.8399 ppm	0.3216 ppm	3.6110 ppm	0.0862 ppm
Concentration per Run 1	61.3505 ppm	3.0757 ppm	0.0115 ppm	2.8299 ppm	0.3222 ppm	3.6290 ppm	0.0887 ppm
Concentration per Run 2	60.6572 ppm	3.0749 ppm	0.0115 ppm	2.8518 ppm	0.3207 ppm	3.5984 ppm	0.0836 ppm
Concentration per Run 3	60.3251 ppm	3.0667 ppm	0.0120 ppm	2.8379 ppm	0.3220 ppm	3.6056 ppm	0.0863 ppm
Concentration RSD	0.9 %	0.2 %	2.4 %	0.4 %	0.2 %	0.4 %	2.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	4.2105 ppm	0.3639 ppm	0.8296 ppm	5.0412 ppm	0.0051 ppm	0.4853 ppm
Concentration per Run 1	0.0030 ppm	4.2365 ppm	0.3664 ppm	0.8317 ppm	5.0711 ppm	0.0041 ppm	0.4893 ppm
Concentration per Run 2	0.0063 ppm	4.2117 ppm	0.3608 ppm	0.8300 ppm	5.0324 ppm	0.0056 ppm	0.4827 ppm
Concentration per Run 3	0.0030 ppm	4.1834 ppm	0.3645 ppm	0.8271 ppm	5.0201 ppm	0.0057 ppm	0.4837 ppm
Concentration RSD	46.9 %	0.6 %	0.8 %	0.3 %	0.5 %	17.5 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.2668 ppm	98.4123 %	110.9567 %	86.7270 %	113.8152 %	131.2586 %	115.2398 %
Concentration per Run 1	7.2999 ppm	97.4815 %	112.4019 %	86.5987 %	112.9550 %	132.6659 %	115.3023 %
Concentration per Run 2	7.2469 ppm	98.7345 %	110.8781 %	87.3878 %	113.7394 %	131.8969 %	115.6807 %
Concentration per Run 3	7.2536 ppm	99.0210 %	109.5903 %	86.1946 %	114.7512 %	129.2130 %	114.7365 %
Concentration RSD	0.4 %	0.8 %	1.3 %	0.7 %	0.8 %	1.4 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453616-09D2 WG1974561
Analysis started at: 9/25/2024 10:59:12 AM
Rack 1
Vial 49
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0014 ppm	108.7807 ppm	0.0673 ppm	0.0618 ppm	1.3235 ppm	0.0060 ppm	145.8647 ppm
Concentration per Run 1	0.0017 ppm	108.7762 ppm	0.0674 ppm	0.0606 ppm	1.3273 ppm	0.0060 ppm	146.0027 ppm
Concentration per Run 2	0.0014 ppm	108.7479 ppm	0.0672 ppm	0.0629 ppm	1.3181 ppm	0.0060 ppm	145.5962 ppm
Concentration per Run 3	0.0012 ppm	108.8182 ppm	0.0673 ppm	0.0618 ppm	1.3250 ppm	0.0059 ppm	145.9953 ppm
Concentration RSD	17.2 %	0.0 %	0.2 %	1.8 %	0.4 %	0.6 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0039 ppm	0.0828 ppm	0.2718 ppm	0.6114 ppm	244.9343 ppm	26.3212 ppm	0.1308 ppm
Concentration per Run 1	0.0038 ppm	0.0837 ppm	0.2726 ppm	0.6129 ppm	244.8525 ppm	26.3558 ppm	0.1317 ppm
Concentration per Run 2	0.0039 ppm	0.0821 ppm	0.2712 ppm	0.6118 ppm	244.6181 ppm	26.2804 ppm	0.1323 ppm
Concentration per Run 3	0.0040 ppm	0.0826 ppm	0.2717 ppm	0.6095 ppm	245.3323 ppm	26.3275 ppm	0.1284 ppm
Concentration RSD	2.6 %	1.0 %	0.3 %	0.3 %	0.1 %	0.1 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	74.6550 ppm	3.5157 ppm	0.0122 ppm	2.4259 ppm	0.1864 ppm	1.5112 ppm	0.0243 ppm
Concentration per Run 1	75.0013 ppm	3.5175 ppm	0.0124 ppm	2.4315 ppm	0.1867 ppm	1.5206 ppm	0.0256 ppm
Concentration per Run 2	74.3181 ppm	3.5108 ppm	0.0118 ppm	2.4207 ppm	0.1858 ppm	1.5061 ppm	0.0244 ppm
Concentration per Run 3	74.6456 ppm	3.5188 ppm	0.0124 ppm	2.4256 ppm	0.1868 ppm	1.5068 ppm	0.0230 ppm
Concentration RSD	0.5 %	0.1 %	3.2 %	0.2 %	0.3 %	0.5 %	5.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0039 ppm	4.3899 ppm	0.0697 ppm	0.7650 ppm	5.2614 ppm	0.0042 ppm	0.4389 ppm
Concentration per Run 1	0.0041 ppm	4.4014 ppm	0.0695 ppm	0.7681 ppm	5.2734 ppm	0.0028 ppm	0.4403 ppm
Concentration per Run 2	0.0026 ppm	4.3986 ppm	0.0704 ppm	0.7623 ppm	5.2649 ppm	0.0047 ppm	0.4384 ppm
Concentration per Run 3	0.0050 ppm	4.3697 ppm	0.0690 ppm	0.7647 ppm	5.2461 ppm	0.0050 ppm	0.4379 ppm
Concentration RSD	30.7 %	0.4 %	1.0 %	0.4 %	0.3 %	28.5 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.7122 ppm	100.4645 %	112.2410 %	88.1242 %	116.8492 %	133.6507 %	117.6619 %
Concentration per Run 1	1.7213 ppm	100.2478 %	112.9096 %	88.1156 %	116.9476 %	134.5288 %	117.9279 %
Concentration per Run 2	1.7082 ppm	100.6415 %	112.2182 %	87.8252 %	116.8927 %	133.2642 %	117.0792 %
Concentration per Run 3	1.7071 ppm	100.5042 %	111.5951 %	88.4319 %	116.7074 %	133.1589 %	117.9786 %
Concentration RSD	0.5 %	0.2 %	0.6 %	0.3 %	0.1 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453616-11D2 WG1974561
Analysis started at: 9/25/2024 11:03:08 AM
Rack 1
Vial 50
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0029 ppm	113.3284 ppm	0.0882 ppm	0.0403 ppm	1.2390 ppm	0.0067 ppm	193.5958 ppm
Concentration per Run 1	0.0032 ppm	113.5119 ppm	0.0887 ppm	0.0397 ppm	1.2439 ppm	0.0067 ppm	193.7224 ppm
Concentration per Run 2	0.0025 ppm	113.5370 ppm	0.0899 ppm	0.0418 ppm	1.2405 ppm	0.0067 ppm	193.6087 ppm
Concentration per Run 3	0.0030 ppm	112.9362 ppm	0.0861 ppm	0.0396 ppm	1.2327 ppm	0.0066 ppm	193.4563 ppm
Concentration RSD	12.1 %	0.3 %	2.2 %	3.1 %	0.5 %	0.4 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0058 ppm	0.0949 ppm	0.2762 ppm	0.9220 ppm	244.2459 ppm	25.3180 ppm	0.1214 ppm
Concentration per Run 1	0.0058 ppm	0.0956 ppm	0.2767 ppm	0.9296 ppm	244.7837 ppm	25.3099 ppm	0.1223 ppm
Concentration per Run 2	0.0058 ppm	0.0949 ppm	0.2753 ppm	0.9198 ppm	244.1840 ppm	25.4131 ppm	0.1222 ppm
Concentration per Run 3	0.0058 ppm	0.0942 ppm	0.2765 ppm	0.9166 ppm	243.7700 ppm	25.2310 ppm	0.1196 ppm
Concentration RSD	0.6 %	0.8 %	0.3 %	0.7 %	0.2 %	0.4 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	89.7511 ppm	3.8683 ppm	0.0101 ppm	1.9600 ppm	0.2323 ppm	4.6283 ppm	0.0394 ppm
Concentration per Run 1	90.1848 ppm	3.8733 ppm	0.0102 ppm	1.9639 ppm	0.2335 ppm	4.6622 ppm	0.0369 ppm
Concentration per Run 2	89.5302 ppm	3.8681 ppm	0.0100 ppm	1.9629 ppm	0.2314 ppm	4.6229 ppm	0.0417 ppm
Concentration per Run 3	89.5385 ppm	3.8635 ppm	0.0102 ppm	1.9533 ppm	0.2319 ppm	4.5999 ppm	0.0395 ppm
Concentration RSD	0.4 %	0.1 %	0.8 %	0.3 %	0.5 %	0.7 %	6.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0027 ppm	4.6730 ppm	0.1456 ppm	0.6046 ppm	5.0703 ppm	0.0049 ppm	0.5196 ppm
Concentration per Run 1	0.0014 ppm	4.6897 ppm	0.1455 ppm	0.6016 ppm	5.0877 ppm	0.0053 ppm	0.5208 ppm
Concentration per Run 2	0.0045 ppm	4.6656 ppm	0.1454 ppm	0.6076 ppm	5.0554 ppm	0.0035 ppm	0.5211 ppm
Concentration per Run 3	0.0023 ppm	4.6636 ppm	0.1459 ppm	0.6047 ppm	5.0676 ppm	0.0059 ppm	0.5168 ppm
Concentration RSD	58.0 %	0.3 %	0.2 %	0.5 %	0.3 %	25.4 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2075 ppm	98.7760 %	110.7789 %	87.0949 %	119.4910 %	137.3215 %	120.9609 %
Concentration per Run 1	2.1991 ppm	98.2982 %	110.5722 %	86.7415 %	119.2783 %	136.8689 %	120.7227 %
Concentration per Run 2	2.2100 ppm	98.9788 %	111.1046 %	87.1606 %	119.6364 %	138.0995 %	121.2395 %
Concentration per Run 3	2.2134 ppm	99.0510 %	110.6598 %	87.3826 %	119.5582 %	136.9961 %	120.9204 %
Concentration RSD	0.3 %	0.4 %	0.3 %	0.4 %	0.2 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453616-13D2 WG1974561
Analysis started at: 9/25/2024 11:07:04 AM
Rack 1
Vial 51
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0022 ppm	96.3511 ppm	0.0862 ppm	0.0343 ppm	1.0296 ppm	0.0059 ppm	135.9473 ppm
Concentration per Run 1	0.0023 ppm	96.4490 ppm	0.0874 ppm	0.0329 ppm	1.0362 ppm	0.0059 ppm	136.2602 ppm
Concentration per Run 2	0.0021 ppm	96.4851 ppm	0.0848 ppm	0.0353 ppm	1.0226 ppm	0.0059 ppm	135.8411 ppm
Concentration per Run 3	0.0022 ppm	96.1192 ppm	0.0864 ppm	0.0346 ppm	1.0300 ppm	0.0059 ppm	135.7407 ppm
Concentration RSD	4.2 %	0.2 %	1.5 %	3.5 %	0.7 %	0.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0063 ppm	0.0797 ppm	0.2553 ppm	0.8701 ppm	218.3374 ppm	20.4794 ppm	0.1038 ppm
Concentration per Run 1	0.0062 ppm	0.0807 ppm	0.2574 ppm	0.8775 ppm	219.2215 ppm	20.4695 ppm	0.1048 ppm
Concentration per Run 2	0.0062 ppm	0.0787 ppm	0.2549 ppm	0.8686 ppm	216.8477 ppm	20.3153 ppm	0.1021 ppm
Concentration per Run 3	0.0064 ppm	0.0797 ppm	0.2537 ppm	0.8643 ppm	218.9429 ppm	20.6536 ppm	0.1044 ppm
Concentration RSD	2.0 %	1.2 %	0.7 %	0.8 %	0.6 %	0.8 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	58.6343 ppm	3.2849 ppm	0.0119 ppm	1.6328 ppm	0.2107 ppm	2.2214 ppm	0.0385 ppm
Concentration per Run 1	58.9870 ppm	3.2880 ppm	0.0116 ppm	1.6402 ppm	0.2127 ppm	2.2340 ppm	0.0389 ppm
Concentration per Run 2	58.3283 ppm	3.2835 ppm	0.0118 ppm	1.6251 ppm	0.2093 ppm	2.2162 ppm	0.0377 ppm
Concentration per Run 3	58.5877 ppm	3.2832 ppm	0.0122 ppm	1.6330 ppm	0.2100 ppm	2.2141 ppm	0.0388 ppm
Concentration RSD	0.6 %	0.1 %	2.5 %	0.5 %	0.9 %	0.5 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	4.5401 ppm	0.1139 ppm	0.4764 ppm	3.8814 ppm	0.0036 ppm	0.4807 ppm
Concentration per Run 1	0.0014 ppm	4.5664 ppm	0.1149 ppm	0.4785 ppm	3.9160 ppm	0.0038 ppm	0.4840 ppm
Concentration per Run 2	0.0036 ppm	4.5268 ppm	0.1138 ppm	0.4763 ppm	3.8741 ppm	0.0042 ppm	0.4800 ppm
Concentration per Run 3	0.0020 ppm	4.5272 ppm	0.1129 ppm	0.4744 ppm	3.8542 ppm	0.0028 ppm	0.4781 ppm
Concentration RSD	48.6 %	0.5 %	0.9 %	0.4 %	0.8 %	20.0 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.9395 ppm	98.2504 %	109.4483 %	89.1185 %	116.5287 %	131.7882 %	118.2769 %
Concentration per Run 1	1.9516 ppm	97.6769 %	108.8870 %	88.8764 %	116.1416 %	131.0209 %	117.8795 %
Concentration per Run 2	1.9300 ppm	99.0364 %	110.2093 %	89.1770 %	117.7085 %	132.5302 %	118.5327 %
Concentration per Run 3	1.9370 ppm	98.0380 %	109.2485 %	89.3023 %	115.7361 %	131.8134 %	118.4186 %
Concentration RSD	0.6 %	0.7 %	0.6 %	0.2 %	0.9 %	0.6 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453616-15D2 WG1974561
Analysis started at: 9/25/2024 11:11:00 AM
Rack 1
Vial 52
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0019 ppm	89.3532 ppm	0.0773 ppm	0.0412 ppm	0.9499 ppm	0.0055 ppm	149.6116 ppm
Concentration per Run 1	0.0018 ppm	89.1644 ppm	0.0765 ppm	0.0417 ppm	0.9464 ppm	0.0055 ppm	148.9966 ppm
Concentration per Run 2	0.0020 ppm	89.3829 ppm	0.0781 ppm	0.0416 ppm	0.9490 ppm	0.0056 ppm	149.8395 ppm
Concentration per Run 3	0.0020 ppm	89.5121 ppm	0.0773 ppm	0.0404 ppm	0.9542 ppm	0.0056 ppm	149.9987 ppm
Concentration RSD	6.5 %	0.2 %	1.1 %	1.7 %	0.4 %	1.3 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0047 ppm	0.0795 ppm	0.2660 ppm	0.7521 ppm	215.0415 ppm	19.6449 ppm	0.0954 ppm
Concentration per Run 1	0.0046 ppm	0.0802 ppm	0.2661 ppm	0.7588 ppm	213.4294 ppm	19.5327 ppm	0.0955 ppm
Concentration per Run 2	0.0048 ppm	0.0794 ppm	0.2656 ppm	0.7512 ppm	215.1686 ppm	19.5702 ppm	0.0945 ppm
Concentration per Run 3	0.0047 ppm	0.0790 ppm	0.2664 ppm	0.7462 ppm	216.5264 ppm	19.8317 ppm	0.0962 ppm
Concentration RSD	1.6 %	0.8 %	0.1 %	0.8 %	0.7 %	0.8 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	65.2273 ppm	2.8798 ppm	0.0086 ppm	3.5567 ppm	0.1864 ppm	1.9373 ppm	0.0344 ppm
Concentration per Run 1	65.7807 ppm	2.8752 ppm	0.0084 ppm	3.5342 ppm	0.1867 ppm	1.9358 ppm	0.0334 ppm
Concentration per Run 2	65.1649 ppm	2.8833 ppm	0.0090 ppm	3.5507 ppm	0.1874 ppm	1.9368 ppm	0.0341 ppm
Concentration per Run 3	64.7365 ppm	2.8809 ppm	0.0084 ppm	3.5851 ppm	0.1851 ppm	1.9393 ppm	0.0357 ppm
Concentration RSD	0.8 %	0.1 %	4.0 %	0.7 %	0.6 %	0.1 %	3.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0030 ppm	3.4038 ppm	0.0809 ppm	0.4634 ppm	3.9150 ppm	0.0040 ppm	0.3940 ppm
Concentration per Run 1	0.0041 ppm	3.4310 ppm	0.0811 ppm	0.4595 ppm	3.9302 ppm	0.0026 ppm	0.3978 ppm
Concentration per Run 2	0.0037 ppm	3.4007 ppm	0.0804 ppm	0.4632 ppm	3.9046 ppm	0.0056 ppm	0.3928 ppm
Concentration per Run 3	0.0012 ppm	3.3798 ppm	0.0813 ppm	0.4675 ppm	3.9103 ppm	0.0037 ppm	0.3915 ppm
Concentration RSD	52.3 %	0.8 %	0.6 %	0.9 %	0.3 %	38.5 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.9902 ppm	98.3523 %	109.1223 %	88.7330 %	113.8707 %	129.4004 %	115.5451 %
Concentration per Run 1	2.0002 ppm	97.1576 %	109.8092 %	89.0588 %	113.0926 %	129.4501 %	116.1810 %
Concentration per Run 2	1.9913 ppm	98.3276 %	108.8599 %	88.5980 %	114.1996 %	129.2651 %	115.2692 %
Concentration per Run 3	1.9789 ppm	99.5717 %	108.6979 %	88.5421 %	114.3199 %	129.4859 %	115.1850 %
Concentration RSD	0.5 %	1.2 %	0.6 %	0.3 %	0.6 %	0.1 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453616-17D2 WG1974561
Analysis started at: 9/25/2024 11:14:58 AM
Rack 1
Vial 53
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0029 ppm	104.1182 ppm	0.0824 ppm	0.0362 ppm	1.1001 ppm	0.0058 ppm	125.0693 ppm
Concentration per Run 1	0.0027 ppm	104.4535 ppm	0.0817 ppm	0.0358 ppm	1.1109 ppm	0.0058 ppm	125.5937 ppm
Concentration per Run 2	0.0026 ppm	104.0934 ppm	0.0841 ppm	0.0337 ppm	1.0962 ppm	0.0057 ppm	124.7579 ppm
Concentration per Run 3	0.0034 ppm	103.8076 ppm	0.0814 ppm	0.0392 ppm	1.0932 ppm	0.0058 ppm	124.8563 ppm
Concentration RSD	15.0 %	0.3 %	1.8 %	7.7 %	0.9 %	0.8 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0053 ppm	0.0863 ppm	0.2636 ppm	0.8391 ppm	236.6684 ppm	24.5933 ppm	0.1075 ppm
Concentration per Run 1	0.0052 ppm	0.0871 ppm	0.2656 ppm	0.8438 ppm	238.7677 ppm	24.7892 ppm	0.1100 ppm
Concentration per Run 2	0.0050 ppm	0.0800 ppm	0.2474 ppm	0.7847 ppm	235.6859 ppm	24.5527 ppm	0.1077 ppm
Concentration per Run 3	0.0057 ppm	0.0919 ppm	0.2779 ppm	0.8888 ppm	235.5516 ppm	24.4378 ppm	0.1048 ppm
Concentration RSD	6.5 %	7.0 %	5.8 %	6.2 %	0.8 %	0.7 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	58.6743 ppm	3.4399 ppm	0.0089 ppm	3.2414 ppm	0.2042 ppm	2.2060 ppm	0.0352 ppm
Concentration per Run 1	59.1842 ppm	3.4582 ppm	0.0085 ppm	3.2585 ppm	0.2072 ppm	2.2171 ppm	0.0362 ppm
Concentration per Run 2	54.8763 ppm	3.4319 ppm	0.0085 ppm	3.2434 ppm	0.1904 ppm	2.2099 ppm	0.0299 ppm
Concentration per Run 3	61.9625 ppm	3.4297 ppm	0.0098 ppm	3.2223 ppm	0.2151 ppm	2.1911 ppm	0.0396 ppm
Concentration RSD	6.1 %	0.5 %	8.8 %	0.6 %	6.2 %	0.6 %	14.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0042 ppm	4.9452 ppm	0.0903 ppm	0.4622 ppm	5.1107 ppm	0.0044 ppm	0.4846 ppm
Concentration per Run 1	0.0041 ppm	4.9750 ppm	0.0914 ppm	0.4657 ppm	5.1419 ppm	0.0043 ppm	0.4895 ppm
Concentration per Run 2	0.0043 ppm	4.6279 ppm	0.0844 ppm	0.4601 ppm	4.7747 ppm	0.0047 ppm	0.4539 ppm
Concentration per Run 3	0.0041 ppm	5.2328 ppm	0.0951 ppm	0.4608 ppm	5.4153 ppm	0.0042 ppm	0.5103 ppm
Concentration RSD	2.7 %	6.1 %	6.0 %	0.7 %	6.3 %	6.0 %	5.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.0290 ppm	99.0531 %	110.8977 %	87.6016 %	117.0613 %	136.0472 %	120.7789 %
Concentration per Run 1	2.0485 ppm	97.8285 %	109.8852 %	87.2253 %	117.5211 %	134.8883 %	120.6555 %
Concentration per Run 2	1.8979 ppm	105.1167 %	111.5510 %	87.8097 %	120.4249 %	136.5542 %	120.8460 %
Concentration per Run 3	2.1407 ppm	94.2142 %	111.2570 %	87.7700 %	113.2378 %	136.6992 %	120.8352 %
Concentration RSD	6.0 %	5.6 %	0.8 %	0.4 %	3.1 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453616-19D2 WG1974561
Analysis started at: 9/25/2024 11:18:54 AM
Rack 1
Vial 54
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0043 ppm	94.3139 ppm	0.0795 ppm	0.0501 ppm	1.2707 ppm	0.0056 ppm	234.9170 ppm
Concentration per Run 1	0.0043 ppm	94.6028 ppm	0.0810 ppm	0.0498 ppm	1.2764 ppm	0.0056 ppm	235.5886 ppm
Concentration per Run 2	0.0043 ppm	94.1053 ppm	0.0783 ppm	0.0497 ppm	1.2714 ppm	0.0056 ppm	234.3800 ppm
Concentration per Run 3	0.0044 ppm	94.2335 ppm	0.0793 ppm	0.0508 ppm	1.2643 ppm	0.0056 ppm	234.7823 ppm
Concentration RSD	1.0 %	0.3 %	1.7 %	1.2 %	0.5 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0063 ppm	0.0805 ppm	0.2702 ppm	1.7167 ppm	216.5474 ppm	22.9352 ppm	0.1023 ppm
Concentration per Run 1	0.0062 ppm	0.0803 ppm	0.2710 ppm	1.7173 ppm	217.4732 ppm	23.0643 ppm	0.1034 ppm
Concentration per Run 2	0.0062 ppm	0.0815 ppm	0.2708 ppm	1.7186 ppm	216.0231 ppm	22.8121 ppm	0.1020 ppm
Concentration per Run 3	0.0064 ppm	0.0797 ppm	0.2688 ppm	1.7140 ppm	216.1461 ppm	22.9293 ppm	0.1014 ppm
Concentration RSD	1.6 %	1.1 %	0.4 %	0.1 %	0.4 %	0.6 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	99.7030 ppm	3.4722 ppm	0.0103 ppm	2.6951 ppm	0.2899 ppm	3.3806 ppm	0.0544 ppm
Concentration per Run 1	99.9508 ppm	3.4849 ppm	0.0102 ppm	2.7070 ppm	0.2910 ppm	3.3988 ppm	0.0538 ppm
Concentration per Run 2	99.7575 ppm	3.4644 ppm	0.0105 ppm	2.6874 ppm	0.2902 ppm	3.3838 ppm	0.0558 ppm
Concentration per Run 3	99.4007 ppm	3.4674 ppm	0.0101 ppm	2.6910 ppm	0.2884 ppm	3.3591 ppm	0.0536 ppm
Concentration RSD	0.3 %	0.3 %	1.6 %	0.4 %	0.5 %	0.6 %	2.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	9.7882 ppm	0.2399 ppm	0.5953 ppm	4.8638 ppm	0.0040 ppm	0.4470 ppm
Concentration per Run 1	0.0020 ppm	9.8134 ppm	0.2400 ppm	0.5976 ppm	4.8653 ppm	0.0036 ppm	0.4491 ppm
Concentration per Run 2	0.0020 ppm	9.8089 ppm	0.2415 ppm	0.5965 ppm	4.8601 ppm	0.0041 ppm	0.4469 ppm
Concentration per Run 3	0.0015 ppm	9.7424 ppm	0.2381 ppm	0.5918 ppm	4.8659 ppm	0.0045 ppm	0.4451 ppm
Concentration RSD	15.8 %	0.4 %	0.7 %	0.5 %	0.1 %	10.9 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	3.0972 ppm	98.4422 %	110.3393 %	86.3005 %	116.5070 %	133.7084 %	117.3670 %
Concentration per Run 1	3.1066 ppm	98.2128 %	110.6489 %	86.0143 %	116.6875 %	134.4357 %	117.2815 %
Concentration per Run 2	3.1050 ppm	98.1865 %	111.1182 %	86.3989 %	116.1037 %	134.0594 %	117.4467 %
Concentration per Run 3	3.0799 ppm	98.9272 %	109.2507 %	86.4884 %	116.7299 %	132.6300 %	117.3729 %
Concentration RSD	0.5 %	0.4 %	0.9 %	0.3 %	0.3 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 11:22:50 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5024 ppm	0.4823 ppm	0.4770 ppm	0.4968 ppm	0.5000 ppm	0.5118 ppm	0.4942 ppm
Concentration per Run 1	0.5075 ppm	0.4849 ppm	0.4771 ppm	0.5018 ppm	0.4987 ppm	0.5120 ppm	0.4943 ppm
Concentration per Run 2	0.5000 ppm	0.4815 ppm	0.4781 ppm	0.4946 ppm	0.4991 ppm	0.5089 ppm	0.4939 ppm
Concentration per Run 3	0.4998 ppm	0.4807 ppm	0.4757 ppm	0.4939 ppm	0.5022 ppm	0.5146 ppm	0.4944 ppm
Recovery Percentage 1	100.487 %	96.467 %	95.394 %	99.356 %	99.998 %	102.367 %	98.845 %
Concentration RSD	0.9 %	0.5 %	0.3 %	0.9 %	0.4 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5115 ppm	0.5099 ppm	0.5009 ppm	0.4920 ppm	0.5208 ppm	5.1764 ppm	0.4790 ppm
Concentration per Run 1	0.5178 ppm	0.5159 ppm	0.5054 ppm	0.4983 ppm	0.5207 ppm	5.1630 ppm	0.4790 ppm
Concentration per Run 2	0.5078 ppm	0.5079 ppm	0.4982 ppm	0.4893 ppm	0.5209 ppm	5.2399 ppm	0.4835 ppm
Concentration per Run 3	0.5089 ppm	0.5059 ppm	0.4990 ppm	0.4884 ppm	0.5207 ppm	5.1264 ppm	0.4745 ppm
Recovery Percentage 1	102.299 %	101.980 %	100.173 %	98.405 %	104.153 %	103.528 %	95.798 %
Concentration RSD	1.1 %	1.0 %	0.8 %	1.1 %	0.0 %	1.1 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4966 ppm	0.5005 ppm	0.5001 ppm	9.9942 ppm	0.5098 ppm	0.4981 ppm	0.5004 ppm
Concentration per Run 1	0.5043 ppm	0.4994 ppm	0.5046 ppm	9.9319 ppm	0.5125 ppm	0.4964 ppm	0.5054 ppm
Concentration per Run 2	0.4908 ppm	0.5033 ppm	0.4958 ppm	10.0541 ppm	0.5079 ppm	0.4989 ppm	0.4959 ppm
Concentration per Run 3	0.4947 ppm	0.4987 ppm	0.5000 ppm	9.9966 ppm	0.5089 ppm	0.4989 ppm	0.5000 ppm
Recovery Percentage 1	99.319 %	100.093 %	100.022 %	99.942 %	101.954 %	99.614 %	100.087 %
Concentration RSD	1.4 %	0.5 %	0.9 %	0.6 %	0.5 %	0.3 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4921 ppm	5.5996 ppm	0.4857 ppm	0.4845 ppm	0.5059 ppm	0.4958 ppm	0.5036 ppm
Concentration per Run 1	0.4936 ppm	5.6622 ppm	0.4910 ppm	0.4865 ppm	0.5116 ppm	0.4940 ppm	0.5097 ppm
Concentration per Run 2	0.4917 ppm	5.5511 ppm	0.4829 ppm	0.4832 ppm	0.5032 ppm	0.4950 ppm	0.5014 ppm
Concentration per Run 3	0.4909 ppm	5.5854 ppm	0.4832 ppm	0.4838 ppm	0.5027 ppm	0.4984 ppm	0.4997 ppm
Recovery Percentage 1	98.413 %	106.659 %	97.145 %	96.904 %	101.171 %	99.163 %	100.721 %
Concentration RSD	0.3 %	1.0 %	0.9 %	0.4 %	1.0 %	0.5 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5075 ppm	96.8586 %	104.0657 %	98.0197 %	94.1814 %	102.2518 %	96.3707 %
Concentration per Run 1	0.5130 ppm	95.7593 %	104.4083 %	97.6412 %	94.0239 %	102.7693 %	95.9607 %
Concentration per Run 2	0.5030 ppm	97.4128 %	104.0495 %	98.0485 %	94.4969 %	102.1716 %	96.2914 %
Concentration per Run 3	0.5065 ppm	97.4037 %	103.7395 %	98.3694 %	94.0235 %	101.8144 %	96.8599 %
Recovery Percentage 1	101.503 %						
Concentration RSD	1.0 %	1.0 %	0.3 %	0.4 %	0.3 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 11:26:47 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0056 ppm	0.0007 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	-0.0051 ppm
Concentration per Run 1	-0.0002 ppm	-0.0126 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0073 ppm
Concentration per Run 2	-0.0002 ppm	-0.0021 ppm	0.0008 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0043 ppm
Concentration per Run 3	0.0000 ppm	-0.0019 ppm	0.0008 ppm	0.0010 ppm	-0.0001 ppm	0.0000 ppm	-0.0038 ppm
Recovery Percentage 1	-1.633 %	-5.551 %	22.404 %	2.030 %	-0.525 %	-0.134 %	-5.147 %
Concentration RSD	80.5 %	110.0 %	31.6 %	69.7 %	107.5 %	477.5 %	37.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0004 ppm	0.0005 ppm	0.0011 ppm	0.0090 ppm	-0.0216 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0009 ppm	0.0104 ppm	-0.0155 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	0.0004 ppm	0.0014 ppm	0.0083 ppm	-0.0306 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0008 ppm	0.0009 ppm	0.0082 ppm	-0.0185 ppm	0.0016 ppm
Recovery Percentage 1	0.957 %	1.781 %	5.040 %	10.765 %	17.932 %	-0.862 %	5.718 %
Concentration RSD	149.3 %	32.3 %	55.3 %	26.9 %	13.8 %	37.1 %	161.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0009 ppm	0.0002 ppm	0.0016 ppm	-0.0173 ppm	0.0004 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	0.0016 ppm	-0.0146 ppm	-0.0004 ppm	-0.0002 ppm	-0.0030 ppm
Concentration per Run 2	-0.0021 ppm	0.0001 ppm	0.0013 ppm	-0.0182 ppm	0.0009 ppm	-0.0001 ppm	-0.0010 ppm
Concentration per Run 3	-0.0005 ppm	0.0001 ppm	0.0018 ppm	-0.0190 ppm	0.0007 ppm	0.0004 ppm	0.0003 ppm
Recovery Percentage 1	-0.929 %	1.559 %	3.109 %	-0.863 %	1.623 %	0.240 %	-2.445 %
Concentration RSD	105.2 %	96.5 %	16.2 %	13.7 %	165.3 %	1,269.7 %	138.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	0.0066 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0006 ppm	0.0070 ppm	-0.0010 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0063 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.0065 ppm	-0.0013 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0000 ppm
Recovery Percentage 1	-2.355 %	1.320 %	-1.319 %	0.648 %	-1.010 %	-1.251 %	1.112 %
Concentration RSD	148.0 %	5.6 %	130.6 %	52.5 %	78.8 %	181.9 %	177.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	93.1058 %	101.8319 %	96.3642 %	94.7186 %	102.3195 %	97.1971 %
Concentration per Run 1	0.0005 ppm	91.5212 %	101.2710 %	96.0197 %	94.2482 %	101.7276 %	97.1690 %
Concentration per Run 2	0.0004 ppm	93.2088 %	101.5750 %	96.4888 %	94.6667 %	102.1746 %	97.2553 %
Concentration per Run 3	0.0003 ppm	94.5874 %	102.6496 %	96.5840 %	95.2409 %	103.0564 %	97.1669 %
Recovery Percentage 1	7.479 %						
Concentration RSD	26.0 %	1.6 %	0.7 %	0.3 %	0.5 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454328-02D4 WG1974886
Analysis started at: 9/25/2024 11:33:27 AM
Rack 1
Vial 55
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	111.1883 ppm	0.0369 ppm	0.0671 ppm	0.7679 ppm	0.0137 ppm	804.6375 ppm
Concentration per Run 1	0.0001 ppm	111.1066 ppm	0.0373 ppm	0.0663 ppm	0.7685 ppm	0.0136 ppm	801.9736 ppm
Concentration per Run 2	0.0005 ppm	111.2050 ppm	0.0360 ppm	0.0681 ppm	0.7639 ppm	0.0138 ppm	808.7922 ppm
Concentration per Run 3	0.0004 ppm	111.2532 ppm	0.0375 ppm	0.0669 ppm	0.7715 ppm	0.0138 ppm	803.1467 ppm
Concentration RSD	71.8 %	0.1 %	2.3 %	1.3 %	0.5 %	0.7 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0028 ppm	0.0122 ppm	0.1430 ppm	0.2238 ppm	101.0296 ppm	6.4447 ppm	0.0871 ppm
Concentration per Run 1	-0.0027 ppm	0.0123 ppm	0.1429 ppm	0.2256 ppm	101.2335 ppm	6.4743 ppm	0.0863 ppm
Concentration per Run 2	-0.0028 ppm	0.0122 ppm	0.1433 ppm	0.2241 ppm	100.9909 ppm	6.4139 ppm	0.0856 ppm
Concentration per Run 3	-0.0028 ppm	0.0120 ppm	0.1427 ppm	0.2216 ppm	100.8643 ppm	6.4461 ppm	0.0894 ppm
Concentration RSD	2.4 %	1.0 %	0.2 %	0.9 %	0.2 %	0.5 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	51.7493 ppm	12.0380 ppm	0.0070 ppm	5.4022 ppm	0.0449 ppm	0.5749 ppm	0.0009 ppm
Concentration per Run 1	51.7965 ppm	12.0105 ppm	0.0071 ppm	5.4226 ppm	0.0451 ppm	0.5765 ppm	-0.0005 ppm
Concentration per Run 2	51.8286 ppm	12.0749 ppm	0.0071 ppm	5.3826 ppm	0.0456 ppm	0.5759 ppm	0.0029 ppm
Concentration per Run 3	51.6230 ppm	12.0285 ppm	0.0069 ppm	5.4014 ppm	0.0441 ppm	0.5722 ppm	0.0004 ppm
Concentration RSD	0.2 %	0.3 %	1.8 %	0.4 %	1.6 %	0.4 %	188.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0112 ppm	15.7763 ppm	0.0089 ppm	1.3694 ppm	1.2768 ppm	-0.0031 ppm	0.0829 ppm
Concentration per Run 1	0.0112 ppm	15.9027 ppm	0.0087 ppm	1.3635 ppm	1.2803 ppm	-0.0026 ppm	0.0829 ppm
Concentration per Run 2	0.0115 ppm	15.7666 ppm	0.0090 ppm	1.3731 ppm	1.2773 ppm	-0.0040 ppm	0.0826 ppm
Concentration per Run 3	0.0110 ppm	15.6597 ppm	0.0088 ppm	1.3717 ppm	1.2727 ppm	-0.0026 ppm	0.0831 ppm
Concentration RSD	1.9 %	0.8 %	1.6 %	0.4 %	0.3 %	26.3 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9504 ppm	93.4424 %	106.1291 %	85.8250 %	101.5798 %	119.3790 %	103.2705 %
Concentration per Run 1	0.9544 ppm	93.0410 %	105.5924 %	85.8619 %	101.7783 %	118.2325 %	103.1394 %
Concentration per Run 2	0.9538 ppm	93.3667 %	104.7579 %	85.5621 %	101.3093 %	118.1220 %	103.2106 %
Concentration per Run 3	0.9429 ppm	93.9195 %	108.0370 %	86.0509 %	101.6517 %	121.7827 %	103.4614 %
Concentration RSD	0.7 %	0.5 %	1.6 %	0.3 %	0.2 %	1.7 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454328-03D4 WG1974886
Analysis started at: 9/25/2024 11:37:30 AM
Rack 1
Vial 57
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	36.9526 ppm	0.0707 ppm	0.0403 ppm	0.4253 ppm	0.0026 ppm	207.3472 ppm
Concentration per Run 1	0.0001 ppm	36.7963 ppm	0.0679 ppm	0.0403 ppm	0.4251 ppm	0.0025 ppm	206.8169 ppm
Concentration per Run 2	0.0010 ppm	36.9315 ppm	0.0735 ppm	0.0409 ppm	0.4255 ppm	0.0027 ppm	207.7399 ppm
Concentration per Run 3	0.0007 ppm	37.1300 ppm	0.0706 ppm	0.0395 ppm	0.4255 ppm	0.0025 ppm	207.4849 ppm
Concentration RSD	84.0 %	0.5 %	4.0 %	1.7 %	0.1 %	2.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0021 ppm	0.0327 ppm	0.2533 ppm	0.2553 ppm	486.9042 ppm	4.3132 ppm	0.0480 ppm
Concentration per Run 1	0.0021 ppm	0.0330 ppm	0.2543 ppm	0.2555 ppm	484.2059 ppm	4.2912 ppm	0.0486 ppm
Concentration per Run 2	0.0022 ppm	0.0324 ppm	0.2525 ppm	0.2555 ppm	489.5828 ppm	4.3762 ppm	0.0487 ppm
Concentration per Run 3	0.0019 ppm	0.0327 ppm	0.2531 ppm	0.2549 ppm	486.9239 ppm	4.2722 ppm	0.0468 ppm
Concentration RSD	8.2 %	1.0 %	0.4 %	0.1 %	0.6 %	1.3 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	13.8750 ppm	18.5534 ppm	0.0078 ppm	1.4490 ppm	0.1159 ppm	0.5880 ppm	0.0139 ppm
Concentration per Run 1	13.9585 ppm	18.5110 ppm	0.0082 ppm	1.4414 ppm	0.1167 ppm	0.5890 ppm	0.0132 ppm
Concentration per Run 2	13.7663 ppm	18.5883 ppm	0.0073 ppm	1.4540 ppm	0.1141 ppm	0.5872 ppm	0.0145 ppm
Concentration per Run 3	13.9001 ppm	18.5608 ppm	0.0081 ppm	1.4515 ppm	0.1169 ppm	0.5879 ppm	0.0141 ppm
Concentration RSD	0.7 %	0.2 %	6.5 %	0.5 %	1.3 %	0.1 %	4.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0044 ppm	8.5052 ppm	0.0245 ppm	0.3589 ppm	1.5170 ppm	-0.0060 ppm	0.1594 ppm
Concentration per Run 1	0.0035 ppm	8.5823 ppm	0.0244 ppm	0.3595 ppm	1.5213 ppm	-0.0055 ppm	0.1603 ppm
Concentration per Run 2	0.0052 ppm	8.4850 ppm	0.0240 ppm	0.3565 ppm	1.5123 ppm	-0.0077 ppm	0.1586 ppm
Concentration per Run 3	0.0046 ppm	8.4482 ppm	0.0250 ppm	0.3608 ppm	1.5175 ppm	-0.0047 ppm	0.1593 ppm
Concentration RSD	19.9 %	0.8 %	2.2 %	0.6 %	0.3 %	26.3 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.9216 ppm	95.4881 %	106.1268 %	85.4826 %	94.3540 %	108.1343 %	96.0592 %
Concentration per Run 1	1.9234 ppm	94.8483 %	107.0310 %	85.2003 %	93.7501 %	109.1028 %	95.5485 %
Concentration per Run 2	1.9147 ppm	96.4358 %	104.9762 %	85.4733 %	95.3091 %	107.0986 %	96.2226 %
Concentration per Run 3	1.9268 ppm	95.1803 %	106.3733 %	85.7743 %	94.0029 %	108.2016 %	96.4064 %
Concentration RSD	0.3 %	0.9 %	1.0 %	0.3 %	0.9 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454328-01D10 WG1974886
Analysis started at: 9/25/2024 11:41:27 AM
Rack 1
Vial 56
Comment RR MN, ZN

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0005 ppm	33.8506 ppm	0.0174 ppm	0.0354 ppm	0.2948 ppm	0.0034 ppm	212.7591 ppm
Concentration per Run 1	0.0003 ppm	33.7604 ppm	0.0181 ppm	0.0347 ppm	0.2954 ppm	0.0035 ppm	212.7251 ppm
Concentration per Run 2	0.0008 ppm	33.8646 ppm	0.0152 ppm	0.0357 ppm	0.2941 ppm	0.0035 ppm	212.7042 ppm
Concentration per Run 3	0.0004 ppm	33.9268 ppm	0.0190 ppm	0.0359 ppm	0.2948 ppm	0.0034 ppm	212.8480 ppm
Concentration RSD	56.8 %	0.2 %	11.4 %	1.8 %	0.2 %	0.4 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0014 ppm	0.0135 ppm	0.3770 ppm	0.2036 ppm	92.3859 ppm	2.2939 ppm	0.0282 ppm
Concentration per Run 1	0.0014 ppm	0.0140 ppm	0.3851 ppm	0.2098 ppm	92.4322 ppm	2.2998 ppm	0.0276 ppm
Concentration per Run 2	0.0014 ppm	0.0137 ppm	0.3738 ppm	0.2016 ppm	92.4760 ppm	2.2854 ppm	0.0294 ppm
Concentration per Run 3	0.0014 ppm	0.0129 ppm	0.3721 ppm	0.1995 ppm	92.2495 ppm	2.2964 ppm	0.0277 ppm
Concentration RSD	1.2 %	4.0 %	1.9 %	2.7 %	0.1 %	0.3 %	3.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.8313 ppm	10.4240 ppm	0.0047 ppm	1.4041 ppm	0.0682 ppm	0.2235 ppm	0.0015 ppm
Concentration per Run 1	29.4297 ppm	10.4339 ppm	0.0050 ppm	1.4119 ppm	0.0697 ppm	0.2251 ppm	0.0004 ppm
Concentration per Run 2	28.6277 ppm	10.4133 ppm	0.0043 ppm	1.3976 ppm	0.0676 ppm	0.2228 ppm	0.0032 ppm
Concentration per Run 3	28.4366 ppm	10.4247 ppm	0.0047 ppm	1.4027 ppm	0.0672 ppm	0.2228 ppm	0.0008 ppm
Concentration RSD	1.8 %	0.1 %	7.2 %	0.5 %	2.0 %	0.6 %	104.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0026 ppm	8.6306 ppm	0.0124 ppm	0.2700 ppm	1.0512 ppm	-0.0030 ppm	0.2369 ppm
Concentration per Run 1	0.0034 ppm	8.8707 ppm	0.0136 ppm	0.2700 ppm	1.0798 ppm	-0.0044 ppm	0.2419 ppm
Concentration per Run 2	0.0017 ppm	8.5539 ppm	0.0121 ppm	0.2701 ppm	1.0403 ppm	-0.0031 ppm	0.2344 ppm
Concentration per Run 3	0.0025 ppm	8.4672 ppm	0.0115 ppm	0.2699 ppm	1.0335 ppm	-0.0015 ppm	0.2343 ppm
Concentration RSD	33.2 %	2.5 %	8.8 %	0.0 %	2.4 %	48.0 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.4999 ppm	94.0507 %	105.3356 %	91.3053 %	94.7454 %	107.6312 %	97.5936 %
Concentration per Run 1	7.6532 ppm	92.7954 %	105.1550 %	91.0950 %	94.3525 %	107.4966 %	97.6824 %
Concentration per Run 2	7.4597 ppm	94.3936 %	105.2637 %	91.6128 %	95.0009 %	107.5808 %	97.7710 %
Concentration per Run 3	7.3868 ppm	94.9631 %	105.5881 %	91.2081 %	94.8830 %	107.8164 %	97.3275 %
Concentration RSD	1.8 %	1.2 %	0.2 %	0.3 %	0.4 %	0.2 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453131-02 WG1975260
Analysis started at: 9/25/2024 11:46:57 AM
Rack 1
Vial 58
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	0.0065 ppm	0.0017 ppm	0.1426 ppm	0.0093 ppm	0.0000 ppm	21.3569 ppm
Concentration per Run 1	0.0000 ppm	0.0045 ppm	0.0009 ppm	0.1462 ppm	0.0093 ppm	0.0000 ppm	21.4557 ppm
Concentration per Run 2	-0.0003 ppm	0.0128 ppm	0.0025 ppm	0.1404 ppm	0.0093 ppm	0.0000 ppm	21.2939 ppm
Concentration per Run 3	0.0002 ppm	0.0022 ppm	0.0016 ppm	0.1411 ppm	0.0094 ppm	0.0000 ppm	21.3213 ppm
Concentration RSD	572.0 %	85.9 %	47.0 %	2.2 %	0.6 %	202.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	0.0013 ppm	0.0008 ppm	0.0111 ppm	1.4235 ppm	35.2301 ppm	0.0027 ppm
Concentration per Run 1	-0.0002 ppm	0.0011 ppm	0.0010 ppm	0.0113 ppm	1.4263 ppm	35.3148 ppm	0.0045 ppm
Concentration per Run 2	-0.0003 ppm	0.0014 ppm	0.0005 ppm	0.0114 ppm	1.4151 ppm	34.9809 ppm	0.0017 ppm
Concentration per Run 3	-0.0001 ppm	0.0014 ppm	0.0009 ppm	0.0107 ppm	1.4290 ppm	35.3946 ppm	0.0020 ppm
Concentration RSD	39.9 %	13.5 %	35.9 %	3.1 %	0.5 %	0.6 %	56.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.7361 ppm	0.1696 ppm	0.0006 ppm	130.2333 ppm	0.0031 ppm	-0.0001 ppm	-0.0029 ppm
Concentration per Run 1	3.8243 ppm	0.1700 ppm	0.0007 ppm	130.4057 ppm	0.0032 ppm	0.0007 ppm	-0.0032 ppm
Concentration per Run 2	3.7140 ppm	0.1695 ppm	0.0007 ppm	129.6115 ppm	0.0028 ppm	-0.0003 ppm	-0.0023 ppm
Concentration per Run 3	3.6699 ppm	0.1693 ppm	0.0003 ppm	130.6827 ppm	0.0032 ppm	-0.0007 ppm	-0.0033 ppm
Concentration RSD	2.1 %	0.2 %	37.6 %	0.4 %	7.6 %	647.3 %	19.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0018 ppm	5.4612 ppm	-0.0011 ppm	0.0920 ppm	0.0001 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0020 ppm	5.6036 ppm	-0.0010 ppm	0.0920 ppm	-0.0002 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 2	0.0013 ppm	5.4151 ppm	-0.0011 ppm	0.0924 ppm	0.0003 ppm	-0.0018 ppm	0.0007 ppm
Concentration per Run 3	0.0022 ppm	5.3649 ppm	-0.0011 ppm	0.0916 ppm	0.0002 ppm	0.0021 ppm	0.0006 ppm
Concentration RSD	24.2 %	2.3 %	5.2 %	0.5 %	315.0 %	962.7 %	20.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0104 ppm	89.2541 %	101.8676 %	91.3574 %	91.7227 %	102.0603 %	93.5536 %
Concentration per Run 1	0.0106 ppm	87.5433 %	101.1636 %	91.1464 %	91.2138 %	101.5726 %	93.8274 %
Concentration per Run 2	0.0105 ppm	89.8371 %	101.5176 %	91.0374 %	92.1427 %	101.8835 %	93.1744 %
Concentration per Run 3	0.0102 ppm	90.3818 %	102.9214 %	91.8884 %	91.8117 %	102.7248 %	93.6590 %
Concentration RSD	1.9 %	1.7 %	0.9 %	0.5 %	0.5 %	0.6 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 11:50:58 AM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5057 ppm	0.4834 ppm	0.4804 ppm	0.5017 ppm	0.5059 ppm	0.5159 ppm	0.4935 ppm
Concentration per Run 1	0.5107 ppm	0.4841 ppm	0.4827 ppm	0.5053 ppm	0.5045 ppm	0.5159 ppm	0.4942 ppm
Concentration per Run 2	0.5043 ppm	0.4825 ppm	0.4793 ppm	0.5036 ppm	0.5054 ppm	0.5174 ppm	0.4937 ppm
Concentration per Run 3	0.5020 ppm	0.4836 ppm	0.4792 ppm	0.4963 ppm	0.5079 ppm	0.5144 ppm	0.4924 ppm
Recovery Percentage 1	101.136 %	96.680 %	96.085 %	100.341 %	101.189 %	103.186 %	98.690 %
Concentration RSD	0.9 %	0.2 %	0.4 %	1.0 %	0.4 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5154 ppm	0.5123 ppm	0.5061 ppm	0.4929 ppm	0.5155 ppm	5.1883 ppm	0.4846 ppm
Concentration per Run 1	0.5212 ppm	0.5182 ppm	0.5110 ppm	0.4983 ppm	0.5188 ppm	5.1979 ppm	0.4877 ppm
Concentration per Run 2	0.5155 ppm	0.5127 ppm	0.5047 ppm	0.4908 ppm	0.5143 ppm	5.1979 ppm	0.4836 ppm
Concentration per Run 3	0.5095 ppm	0.5058 ppm	0.5026 ppm	0.4896 ppm	0.5134 ppm	5.1690 ppm	0.4824 ppm
Recovery Percentage 1	103.082 %	102.450 %	101.221 %	98.582 %	103.103 %	103.766 %	96.912 %
Concentration RSD	1.1 %	1.2 %	0.9 %	1.0 %	0.6 %	0.3 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4988 ppm	0.5031 ppm	0.5025 ppm	9.9996 ppm	0.5152 ppm	0.4999 ppm	0.5033 ppm
Concentration per Run 1	0.5040 ppm	0.5033 ppm	0.5053 ppm	9.9704 ppm	0.5213 ppm	0.5003 ppm	0.5087 ppm
Concentration per Run 2	0.4963 ppm	0.5030 ppm	0.5017 ppm	10.0209 ppm	0.5127 ppm	0.5014 ppm	0.5019 ppm
Concentration per Run 3	0.4961 ppm	0.5030 ppm	0.5004 ppm	10.0075 ppm	0.5117 ppm	0.4981 ppm	0.4993 ppm
Recovery Percentage 1	99.757 %	100.623 %	100.494 %	99.996 %	103.044 %	99.982 %	100.660 %
Concentration RSD	0.9 %	0.0 %	0.5 %	0.3 %	1.0 %	0.3 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4945 ppm	5.6278 ppm	0.4909 ppm	0.4876 ppm	0.5098 ppm	0.4955 ppm	0.5070 ppm
Concentration per Run 1	0.4977 ppm	5.6771 ppm	0.4956 ppm	0.4871 ppm	0.5136 ppm	0.4986 ppm	0.5124 ppm
Concentration per Run 2	0.4924 ppm	5.6159 ppm	0.4899 ppm	0.4881 ppm	0.5094 ppm	0.4924 ppm	0.5067 ppm
Concentration per Run 3	0.4933 ppm	5.5905 ppm	0.4871 ppm	0.4876 ppm	0.5064 ppm	0.4955 ppm	0.5019 ppm
Recovery Percentage 1	98.893 %	107.197 %	98.174 %	97.521 %	101.961 %	99.101 %	101.404 %
Concentration RSD	0.6 %	0.8 %	0.9 %	0.1 %	0.7 %	0.6 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5133 ppm	95.8599 %	103.9428 %	97.4013 %	92.6787 %	101.8840 %	95.8140 %
Concentration per Run 1	0.5198 ppm	94.6411 %	103.2141 %	97.5693 %	91.9726 %	101.1307 %	96.1845 %
Concentration per Run 2	0.5125 ppm	95.5698 %	103.7346 %	96.7829 %	92.2491 %	101.6742 %	95.2331 %
Concentration per Run 3	0.5075 ppm	97.3689 %	104.8798 %	97.8517 %	93.8143 %	102.8472 %	96.0245 %
Recovery Percentage 1	102.654 %						
Concentration RSD	1.2 %	1.4 %	0.8 %	0.6 %	1.1 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 11:54:55 AM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	-0.0094 ppm	0.0009 ppm	0.0008 ppm	-0.0001 ppm	0.0000 ppm	-0.0058 ppm
Concentration per Run 1	0.0002 ppm	-0.0059 ppm	0.0003 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm	-0.0053 ppm
Concentration per Run 2	0.0002 ppm	-0.0104 ppm	0.0017 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	-0.0059 ppm
Concentration per Run 3	0.0000 ppm	-0.0118 ppm	0.0008 ppm	0.0015 ppm	-0.0001 ppm	0.0001 ppm	-0.0062 ppm
Recovery Percentage 1	2.136 %	-9.375 %	30.502 %	2.804 %	-1.196 %	0.344 %	-5.781 %
Concentration RSD	81.9 %	33.2 %	76.4 %	65.5 %	14.6 %	293.4 %	8.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0013 ppm	0.0073 ppm	-0.0169 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0015 ppm	0.0071 ppm	-0.0062 ppm	-0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0014 ppm	0.0081 ppm	-0.0138 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0066 ppm	-0.0308 ppm	-0.0008 ppm
Recovery Percentage 1	-0.500 %	0.995 %	3.016 %	13.020 %	14.529 %	-0.678 %	-3.851 %
Concentration RSD	361.9 %	50.3 %	54.8 %	17.1 %	10.7 %	74.5 %	187.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0009 ppm	0.0002 ppm	0.0016 ppm	-0.0111 ppm	0.0004 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 1	-0.0013 ppm	0.0003 ppm	0.0014 ppm	-0.0036 ppm	0.0001 ppm	-0.0003 ppm	-0.0013 ppm
Concentration per Run 2	-0.0011 ppm	0.0001 ppm	0.0017 ppm	-0.0153 ppm	0.0006 ppm	0.0005 ppm	0.0008 ppm
Concentration per Run 3	-0.0003 ppm	0.0001 ppm	0.0015 ppm	-0.0145 ppm	0.0004 ppm	0.0001 ppm	-0.0014 ppm
Recovery Percentage 1	-0.884 %	1.567 %	3.102 %	-0.555 %	1.420 %	0.868 %	-1.252 %
Concentration RSD	63.5 %	60.2 %	10.2 %	58.6 %	61.6 %	450.3 %	200.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0023 ppm	0.0065 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0018 ppm	0.0080 ppm	-0.0015 ppm	-0.0001 ppm	-0.0002 ppm	0.0011 ppm	0.0001 ppm
Concentration per Run 2	0.0017 ppm	0.0057 ppm	-0.0005 ppm	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 3	0.0033 ppm	0.0057 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0012 ppm	0.0001 ppm
Recovery Percentage 1	22.691 %	1.292 %	-1.425 %	-0.144 %	-1.177 %	0.244 %	1.121 %
Concentration RSD	39.2 %	21.3 %	98.0 %	427.6 %	172.5 %	2,331.9 %	13.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	93.0916 %	102.6362 %	96.5334 %	94.6722 %	103.2838 %	97.4720 %
Concentration per Run 1	0.0006 ppm	91.8163 %	103.2655 %	96.1043 %	94.2092 %	104.0240 %	97.2652 %
Concentration per Run 2	0.0003 ppm	92.9855 %	102.6749 %	96.3676 %	94.6370 %	103.2305 %	97.4085 %
Concentration per Run 3	0.0003 ppm	94.4729 %	101.9681 %	97.1283 %	95.1702 %	102.5968 %	97.7422 %
Recovery Percentage 1	7.663 %						
Concentration RSD	39.4 %	1.4 %	0.6 %	0.6 %	0.5 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453602-33 WG1975349
Analysis started at: 9/25/2024 12:02:15 PM
Rack 1
Vial 59
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0021 ppm	39.9898 ppm	0.3205 ppm	0.0985 ppm	1.1852 ppm	0.0016 ppm	63.6638 ppm
Concentration per Run 1	0.0021 ppm	40.0127 ppm	0.3210 ppm	0.0983 ppm	1.1807 ppm	0.0016 ppm	63.6186 ppm
Concentration per Run 2	0.0022 ppm	40.0303 ppm	0.3180 ppm	0.0987 ppm	1.1936 ppm	0.0016 ppm	63.7589 ppm
Concentration per Run 3	0.0022 ppm	39.9265 ppm	0.3225 ppm	0.0986 ppm	1.1815 ppm	0.0016 ppm	63.6138 ppm
Concentration RSD	3.1 %	0.1 %	0.7 %	0.2 %	0.6 %	0.0 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0228 ppm	0.0763 ppm	0.3823 ppm	0.6854 ppm	133.7086 ppm	13.2965 ppm	0.0922 ppm
Concentration per Run 1	0.0230 ppm	0.0772 ppm	0.3826 ppm	0.6831 ppm	133.6482 ppm	13.3586 ppm	0.0937 ppm
Concentration per Run 2	0.0226 ppm	0.0760 ppm	0.3807 ppm	0.6856 ppm	134.3205 ppm	13.3622 ppm	0.0923 ppm
Concentration per Run 3	0.0227 ppm	0.0757 ppm	0.3835 ppm	0.6874 ppm	133.1571 ppm	13.1688 ppm	0.0906 ppm
Concentration RSD	1.0 %	1.1 %	0.4 %	0.3 %	0.4 %	0.8 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.4101 ppm	1.7387 ppm	0.0233 ppm	11.7707 ppm	0.1706 ppm	6.5314 ppm	0.1505 ppm
Concentration per Run 1	28.5022 ppm	1.7378 ppm	0.0232 ppm	11.7239 ppm	0.1703 ppm	6.5385 ppm	0.1521 ppm
Concentration per Run 2	28.2602 ppm	1.7439 ppm	0.0228 ppm	11.7928 ppm	0.1690 ppm	6.5169 ppm	0.1516 ppm
Concentration per Run 3	28.4677 ppm	1.7344 ppm	0.0241 ppm	11.7952 ppm	0.1724 ppm	6.5387 ppm	0.1478 ppm
Concentration RSD	0.5 %	0.3 %	2.8 %	0.3 %	1.0 %	0.2 %	1.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0066 ppm	11.4580 ppm	0.2165 ppm	0.4009 ppm	2.6460 ppm	-0.0022 ppm	0.1955 ppm
Concentration per Run 1	0.0095 ppm	11.4363 ppm	0.2173 ppm	0.4004 ppm	2.6401 ppm	-0.0036 ppm	0.1951 ppm
Concentration per Run 2	0.0053 ppm	11.4453 ppm	0.2153 ppm	0.4008 ppm	2.6502 ppm	-0.0009 ppm	0.1958 ppm
Concentration per Run 3	0.0049 ppm	11.4925 ppm	0.2169 ppm	0.4016 ppm	2.6477 ppm	-0.0022 ppm	0.1955 ppm
Concentration RSD	39.4 %	0.3 %	0.5 %	0.2 %	0.2 %	60.3 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	6.7525 ppm	97.5318 %	104.3695 %	88.5662 %	107.2980 %	118.3128 %	108.8105 %
Concentration per Run 1	6.8190 ppm	96.8042 %	103.9199 %	88.5000 %	106.0999 %	117.6987 %	108.7094 %
Concentration per Run 2	6.6662 ppm	98.2881 %	104.3559 %	88.6542 %	108.2598 %	118.4588 %	108.5748 %
Concentration per Run 3	6.7722 ppm	97.5032 %	104.8328 %	88.5442 %	107.5344 %	118.7809 %	109.1474 %
Concentration RSD	1.2 %	0.8 %	0.4 %	0.1 %	1.0 %	0.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453602-34 WG1975349
Analysis started at: 9/25/2024 12:10:03 PM
Rack 1
Vial 60
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	5.1024 ppm	0.0152 ppm	0.0098 ppm	0.2071 ppm	0.0002 ppm	14.9141 ppm
Concentration per Run 1	0.0007 ppm	5.1085 ppm	0.0159 ppm	0.0099 ppm	0.2067 ppm	0.0002 ppm	14.9194 ppm
Concentration per Run 2	0.0005 ppm	5.1240 ppm	0.0145 ppm	0.0103 ppm	0.2079 ppm	0.0002 ppm	14.9507 ppm
Concentration per Run 3	0.0005 ppm	5.0747 ppm	0.0151 ppm	0.0093 ppm	0.2067 ppm	0.0001 ppm	14.8723 ppm
Concentration RSD	19.9 %	0.5 %	4.8 %	4.8 %	0.3 %	19.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0024 ppm	0.0344 ppm	0.0309 ppm	0.0736 ppm	16.2640 ppm	1.6636 ppm	0.0083 ppm
Concentration per Run 1	0.0024 ppm	0.0338 ppm	0.0297 ppm	0.0716 ppm	16.2260 ppm	1.6920 ppm	0.0097 ppm
Concentration per Run 2	0.0024 ppm	0.0347 ppm	0.0311 ppm	0.0743 ppm	16.3454 ppm	1.6827 ppm	0.0081 ppm
Concentration per Run 3	0.0025 ppm	0.0349 ppm	0.0319 ppm	0.0750 ppm	16.2205 ppm	1.6161 ppm	0.0072 ppm
Concentration RSD	2.6 %	1.7 %	3.6 %	2.4 %	0.4 %	2.5 %	15.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	2.5705 ppm	0.2320 ppm	0.0023 ppm	5.6250 ppm	0.0176 ppm	0.9114 ppm	0.0991 ppm
Concentration per Run 1	2.4958 ppm	0.2324 ppm	0.0024 ppm	5.6213 ppm	0.0169 ppm	0.9043 ppm	0.0985 ppm
Concentration per Run 2	2.5810 ppm	0.2325 ppm	0.0022 ppm	5.6236 ppm	0.0177 ppm	0.9132 ppm	0.0987 ppm
Concentration per Run 3	2.6345 ppm	0.2310 ppm	0.0022 ppm	5.6302 ppm	0.0180 ppm	0.9168 ppm	0.1002 ppm
Concentration RSD	2.7 %	0.4 %	3.7 %	0.1 %	3.4 %	0.7 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0041 ppm	3.2884 ppm	0.0769 ppm	0.0635 ppm	0.3826 ppm	-0.0007 ppm	0.0188 ppm
Concentration per Run 1	0.0035 ppm	3.1964 ppm	0.0743 ppm	0.0633 ppm	0.3739 ppm	-0.0004 ppm	0.0183 ppm
Concentration per Run 2	0.0044 ppm	3.3061 ppm	0.0770 ppm	0.0639 ppm	0.3811 ppm	-0.0008 ppm	0.0189 ppm
Concentration per Run 3	0.0044 ppm	3.3626 ppm	0.0794 ppm	0.0634 ppm	0.3929 ppm	-0.0008 ppm	0.0193 ppm
Concentration RSD	12.8 %	2.6 %	3.3 %	0.5 %	2.5 %	32.3 %	2.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7556 ppm	116.2823 %	106.7005 %	103.6584 %	104.8231 %	104.8194 %	102.6113 %
Concentration per Run 1	0.7316 ppm	120.1691 %	106.5043 %	104.9385 %	105.3690 %	104.4266 %	103.0890 %
Concentration per Run 2	0.7618 ppm	115.3563 %	106.7804 %	103.0136 %	104.5006 %	105.2400 %	102.1604 %
Concentration per Run 3	0.7735 ppm	113.3215 %	106.8169 %	103.0231 %	104.5997 %	104.7915 %	102.5845 %
Concentration RSD	2.9 %	3.0 %	0.2 %	1.1 %	0.5 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453602-35 WG1975349
Analysis started at: 9/25/2024 12:14:21 PM
Rack 2
Vial 1
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0035 ppm	5.1127 ppm	0.5552 ppm	0.0182 ppm	0.2652 ppm	0.0001 ppm	22.7265 ppm
Concentration per Run 1	0.0034 ppm	5.1066 ppm	0.5550 ppm	0.0184 ppm	0.2649 ppm	0.0001 ppm	22.7675 ppm
Concentration per Run 2	0.0035 ppm	5.1273 ppm	0.5505 ppm	0.0188 ppm	0.2657 ppm	0.0001 ppm	22.7177 ppm
Concentration per Run 3	0.0036 ppm	5.1043 ppm	0.5603 ppm	0.0173 ppm	0.2649 ppm	0.0001 ppm	22.6944 ppm
Concentration RSD	3.2 %	0.2 %	0.9 %	4.1 %	0.2 %	21.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0468 ppm	0.0049 ppm	0.0626 ppm	0.0680 ppm	3.0038 ppm	2.2672 ppm	0.0192 ppm
Concentration per Run 1	0.0469 ppm	0.0049 ppm	0.0629 ppm	0.0684 ppm	2.9899 ppm	2.2619 ppm	0.0209 ppm
Concentration per Run 2	0.0468 ppm	0.0049 ppm	0.0622 ppm	0.0679 ppm	3.0265 ppm	2.2946 ppm	0.0188 ppm
Concentration per Run 3	0.0466 ppm	0.0049 ppm	0.0626 ppm	0.0678 ppm	2.9950 ppm	2.2452 ppm	0.0180 ppm
Concentration RSD	0.4 %	0.6 %	0.6 %	0.4 %	0.7 %	1.1 %	7.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	5.2661 ppm	0.1263 ppm	0.0037 ppm	11.2708 ppm	0.0055 ppm	11.4947 ppm	0.0879 ppm
Concentration per Run 1	5.2763 ppm	0.1259 ppm	0.0039 ppm	11.2762 ppm	0.0055 ppm	11.5328 ppm	0.0895 ppm
Concentration per Run 2	5.2817 ppm	0.1269 ppm	0.0034 ppm	11.2349 ppm	0.0052 ppm	11.4343 ppm	0.0865 ppm
Concentration per Run 3	5.2403 ppm	0.1260 ppm	0.0039 ppm	11.3012 ppm	0.0060 ppm	11.5169 ppm	0.0876 ppm
Concentration RSD	0.4 %	0.4 %	8.0 %	0.3 %	7.2 %	0.5 %	1.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0051 ppm	3.0492 ppm	0.0550 ppm	0.2235 ppm	0.4735 ppm	-0.0012 ppm	0.0119 ppm
Concentration per Run 1	0.0062 ppm	3.0712 ppm	0.0543 ppm	0.2232 ppm	0.4805 ppm	-0.0018 ppm	0.0120 ppm
Concentration per Run 2	0.0046 ppm	3.0442 ppm	0.0557 ppm	0.2241 ppm	0.4693 ppm	-0.0006 ppm	0.0120 ppm
Concentration per Run 3	0.0045 ppm	3.0321 ppm	0.0550 ppm	0.2233 ppm	0.4706 ppm	-0.0011 ppm	0.0117 ppm
Concentration RSD	18.2 %	0.7 %	1.3 %	0.2 %	1.3 %	51.5 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.7504 ppm	98.0766 %	104.9794 %	95.7044 %	94.4089 %	103.3069 %	95.7102 %
Concentration per Run 1	7.8410 ppm	97.6297 %	104.7739 %	95.1947 %	94.3969 %	102.9928 %	95.2762 %
Concentration per Run 2	7.7582 ppm	97.9313 %	104.1726 %	96.2343 %	94.1717 %	102.7578 %	95.9064 %
Concentration per Run 3	7.6521 ppm	98.6688 %	105.9917 %	95.6841 %	94.6581 %	104.1702 %	95.9480 %
Concentration RSD	1.2 %	0.5 %	0.9 %	0.5 %	0.3 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453602-36 WG1975349
Analysis started at: 9/25/2024 12:18:18 PM
Rack 2
Vial 2
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	9.0356 ppm	0.0222 ppm	0.0057 ppm	4.2871 ppm	0.0001 ppm	11.1624 ppm
Concentration per Run 1	0.0001 ppm	9.0819 ppm	0.0219 ppm	0.0057 ppm	4.2975 ppm	0.0001 ppm	11.1697 ppm
Concentration per Run 2	0.0004 ppm	9.0093 ppm	0.0223 ppm	0.0057 ppm	4.2832 ppm	0.0001 ppm	11.1607 ppm
Concentration per Run 3	0.0003 ppm	9.0155 ppm	0.0223 ppm	0.0058 ppm	4.2806 ppm	0.0000 ppm	11.1567 ppm
Concentration RSD	46.5 %	0.4 %	1.2 %	1.4 %	0.2 %	15.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0201 ppm	0.0029 ppm	0.0068 ppm	0.0281 ppm	2.5946 ppm	0.6722 ppm	0.0047 ppm
Concentration per Run 1	0.0202 ppm	0.0031 ppm	0.0070 ppm	0.0282 ppm	2.6128 ppm	0.6906 ppm	0.0050 ppm
Concentration per Run 2	0.0201 ppm	0.0024 ppm	0.0066 ppm	0.0280 ppm	2.5926 ppm	0.6799 ppm	0.0037 ppm
Concentration per Run 3	0.0200 ppm	0.0032 ppm	0.0070 ppm	0.0281 ppm	2.5784 ppm	0.6462 ppm	0.0055 ppm
Concentration RSD	0.4 %	16.0 %	3.2 %	0.3 %	0.7 %	3.4 %	19.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.1063 ppm	0.0752 ppm	0.0003 ppm	3.5492 ppm	0.0038 ppm	2.2739 ppm	0.0518 ppm
Concentration per Run 1	1.1121 ppm	0.0759 ppm	0.0004 ppm	3.5622 ppm	0.0034 ppm	2.2708 ppm	0.0534 ppm
Concentration per Run 2	1.1048 ppm	0.0747 ppm	0.0002 ppm	3.5391 ppm	0.0038 ppm	2.2754 ppm	0.0488 ppm
Concentration per Run 3	1.1021 ppm	0.0749 ppm	0.0003 ppm	3.5462 ppm	0.0042 ppm	2.2755 ppm	0.0531 ppm
Concentration RSD	0.5 %	0.8 %	42.7 %	0.3 %	10.6 %	0.1 %	5.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0042 ppm	2.3012 ppm	0.0604 ppm	0.1466 ppm	0.3455 ppm	-0.0007 ppm	0.0068 ppm
Concentration per Run 1	0.0050 ppm	2.3169 ppm	0.0599 ppm	0.1466 ppm	0.3487 ppm	-0.0006 ppm	0.0069 ppm
Concentration per Run 2	0.0032 ppm	2.2962 ppm	0.0609 ppm	0.1463 ppm	0.3427 ppm	-0.0009 ppm	0.0068 ppm
Concentration per Run 3	0.0044 ppm	2.2905 ppm	0.0603 ppm	0.1471 ppm	0.3449 ppm	-0.0006 ppm	0.0068 ppm
Concentration RSD	21.1 %	0.6 %	0.8 %	0.3 %	0.9 %	25.3 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.2006 ppm	99.8205 %	105.5206 %	96.3954 %	95.5545 %	103.3697 %	96.3991 %
Concentration per Run 1	2.2156 ppm	99.2132 %	104.7847 %	96.2414 %	95.2165 %	102.7811 %	96.0804 %
Concentration per Run 2	2.1906 ppm	100.1648 %	106.2714 %	96.6382 %	95.7081 %	103.7635 %	96.9186 %
Concentration per Run 3	2.1956 ppm	100.0835 %	105.5057 %	96.3066 %	95.7388 %	103.5645 %	96.1984 %
Concentration RSD	0.6 %	0.5 %	0.7 %	0.2 %	0.3 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453602-37 WG1975349
Analysis started at: 9/25/2024 12:22:14 PM
Rack 2
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0015 ppm	17.5263 ppm	1.9155 ppm	0.0290 ppm	0.4972 ppm	0.0007 ppm	21.7110 ppm
Concentration per Run 1	0.0015 ppm	17.5464 ppm	1.9067 ppm	0.0287 ppm	0.4991 ppm	0.0007 ppm	21.6532 ppm
Concentration per Run 2	0.0014 ppm	17.4700 ppm	1.9236 ppm	0.0294 ppm	0.4960 ppm	0.0007 ppm	21.7020 ppm
Concentration per Run 3	0.0015 ppm	17.5623 ppm	1.9161 ppm	0.0291 ppm	0.4967 ppm	0.0007 ppm	21.7777 ppm
Concentration RSD	4.4 %	0.3 %	0.4 %	1.2 %	0.3 %	1.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0038 ppm	0.0540 ppm	1.8221 ppm	1.1633 ppm	112.3801 ppm	5.4709 ppm	0.0286 ppm
Concentration per Run 1	0.0037 ppm	0.0533 ppm	1.8043 ppm	1.1533 ppm	112.6447 ppm	5.5092 ppm	0.0292 ppm
Concentration per Run 2	0.0038 ppm	0.0544 ppm	1.8227 ppm	1.1623 ppm	112.2606 ppm	5.4343 ppm	0.0287 ppm
Concentration per Run 3	0.0039 ppm	0.0541 ppm	1.8393 ppm	1.1741 ppm	112.2351 ppm	5.4693 ppm	0.0279 ppm
Concentration RSD	2.3 %	1.1 %	1.0 %	0.9 %	0.2 %	0.7 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	9.1908 ppm	1.1058 ppm	0.0097 ppm	13.5562 ppm	0.0784 ppm	1.3461 ppm	0.3291 ppm
Concentration per Run 1	9.0963 ppm	1.1067 ppm	0.0095 ppm	13.5993 ppm	0.0781 ppm	1.3460 ppm	0.3276 ppm
Concentration per Run 2	9.2211 ppm	1.1035 ppm	0.0096 ppm	13.4658 ppm	0.0781 ppm	1.3459 ppm	0.3275 ppm
Concentration per Run 3	9.2549 ppm	1.1071 ppm	0.0100 ppm	13.6036 ppm	0.0791 ppm	1.3465 ppm	0.3323 ppm
Concentration RSD	0.9 %	0.2 %	2.5 %	0.6 %	0.7 %	0.0 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0128 ppm	11.4545 ppm	0.2073 ppm	0.1568 ppm	1.4235 ppm	-0.0061 ppm	0.0702 ppm
Concentration per Run 1	0.0123 ppm	11.4252 ppm	0.2054 ppm	0.1571 ppm	1.4369 ppm	-0.0071 ppm	0.0695 ppm
Concentration per Run 2	0.0110 ppm	11.3748 ppm	0.2090 ppm	0.1569 ppm	1.4078 ppm	-0.0069 ppm	0.0703 ppm
Concentration per Run 3	0.0150 ppm	11.5636 ppm	0.2075 ppm	0.1564 ppm	1.4259 ppm	-0.0042 ppm	0.0707 ppm
Concentration RSD	16.0 %	0.9 %	0.9 %	0.2 %	1.0 %	27.3 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	7.1527 ppm	98.7380 %	103.8187 %	89.5466 %	98.0049 %	105.9834 %	98.1061 %
Concentration per Run 1	7.0840 ppm	99.6709 %	103.8456 %	89.4466 %	98.8850 %	105.7915 %	97.7778 %
Concentration per Run 2	7.1456 ppm	98.0869 %	103.3289 %	89.9661 %	97.1579 %	105.4233 %	98.7721 %
Concentration per Run 3	7.2286 ppm	98.4564 %	104.2815 %	89.2271 %	97.9718 %	106.7353 %	97.7684 %
Concentration RSD	1.0 %	0.8 %	0.5 %	0.4 %	0.9 %	0.6 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 12:26:10 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5014 ppm	0.4897 ppm	0.4812 ppm	0.4908 ppm	0.5037 ppm	0.5136 ppm	0.4930 ppm
Concentration per Run 1	0.5049 ppm	0.4890 ppm	0.4845 ppm	0.4937 ppm	0.5057 ppm	0.5112 ppm	0.4902 ppm
Concentration per Run 2	0.5010 ppm	0.4914 ppm	0.4787 ppm	0.4915 ppm	0.5036 ppm	0.5143 ppm	0.4918 ppm
Concentration per Run 3	0.4982 ppm	0.4889 ppm	0.4803 ppm	0.4872 ppm	0.5017 ppm	0.5152 ppm	0.4971 ppm
Recovery Percentage 1	100.275 %	97.949 %	96.232 %	98.167 %	100.731 %	102.714 %	98.607 %
Concentration RSD	0.7 %	0.3 %	0.6 %	0.7 %	0.4 %	0.4 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5084 ppm	0.5081 ppm	0.5019 ppm	0.4892 ppm	0.5165 ppm	5.1525 ppm	0.4813 ppm
Concentration per Run 1	0.5120 ppm	0.5116 ppm	0.5050 ppm	0.4923 ppm	0.5167 ppm	5.1914 ppm	0.4888 ppm
Concentration per Run 2	0.5078 ppm	0.5073 ppm	0.5012 ppm	0.4870 ppm	0.5170 ppm	5.1537 ppm	0.4815 ppm
Concentration per Run 3	0.5054 ppm	0.5056 ppm	0.4994 ppm	0.4884 ppm	0.5157 ppm	5.1123 ppm	0.4737 ppm
Recovery Percentage 1	101.683 %	101.630 %	100.370 %	97.849 %	103.292 %	103.050 %	96.269 %
Concentration RSD	0.7 %	0.6 %	0.6 %	0.6 %	0.1 %	0.8 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4954 ppm	0.5021 ppm	0.4952 ppm	10.0017 ppm	0.5090 ppm	0.4977 ppm	0.4917 ppm
Concentration per Run 1	0.5000 ppm	0.5018 ppm	0.4951 ppm	10.0657 ppm	0.5107 ppm	0.4963 ppm	0.4941 ppm
Concentration per Run 2	0.4958 ppm	0.5034 ppm	0.4948 ppm	10.0163 ppm	0.5080 ppm	0.4979 ppm	0.4895 ppm
Concentration per Run 3	0.4903 ppm	0.5010 ppm	0.4957 ppm	9.9229 ppm	0.5083 ppm	0.4989 ppm	0.4915 ppm
Recovery Percentage 1	99.070 %	100.418 %	99.043 %	100.017 %	101.804 %	99.537 %	98.340 %
Concentration RSD	1.0 %	0.2 %	0.1 %	0.7 %	0.3 %	0.3 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4934 ppm	5.5795 ppm	0.4830 ppm	0.4841 ppm	0.5024 ppm	0.4958 ppm	0.5036 ppm
Concentration per Run 1	0.4941 ppm	5.5911 ppm	0.4900 ppm	0.4801 ppm	0.5026 ppm	0.4974 ppm	0.5069 ppm
Concentration per Run 2	0.4940 ppm	5.5869 ppm	0.4777 ppm	0.4854 ppm	0.5064 ppm	0.4950 ppm	0.5033 ppm
Concentration per Run 3	0.4922 ppm	5.5604 ppm	0.4812 ppm	0.4870 ppm	0.4981 ppm	0.4949 ppm	0.5006 ppm
Recovery Percentage 1	98.682 %	106.276 %	96.596 %	96.826 %	100.476 %	99.155 %	100.719 %
Concentration RSD	0.2 %	0.3 %	1.3 %	0.7 %	0.8 %	0.3 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5059 ppm	97.0238 %	103.9349 %	97.3957 %	93.6453 %	101.9278 %	95.6314 %
Concentration per Run 1	0.5105 ppm	96.2432 %	103.1135 %	97.4392 %	93.3345 %	100.6281 %	95.5952 %
Concentration per Run 2	0.5033 ppm	96.9529 %	104.4823 %	97.3341 %	93.5092 %	102.6632 %	95.3326 %
Concentration per Run 3	0.5039 ppm	97.8753 %	104.2088 %	97.4138 %	94.0920 %	102.4921 %	95.9664 %
Recovery Percentage 1	101.177 %						
Concentration RSD	0.8 %	0.8 %	0.7 %	0.1 %	0.4 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 12:30:08 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	-0.0073 ppm	0.0006 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	-0.0051 ppm
Concentration per Run 1	-0.0001 ppm	-0.0076 ppm	0.0005 ppm	0.0011 ppm	-0.0002 ppm	0.0000 ppm	-0.0060 ppm
Concentration per Run 2	-0.0003 ppm	-0.0035 ppm	-0.0002 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	-0.0047 ppm
Concentration per Run 3	0.0001 ppm	-0.0109 ppm	0.0015 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0045 ppm
Recovery Percentage 1	-1.287 %	-7.316 %	19.937 %	4.398 %	-0.359 %	0.288 %	-5.083 %
Concentration RSD	255.6 %	51.0 %	147.7 %	63.7 %	411.6 %	302.3 %	15.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0012 ppm	0.0052 ppm	-0.0299 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0012 ppm	0.0044 ppm	-0.0277 ppm	-0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0008 ppm	0.0012 ppm	0.0059 ppm	-0.0170 ppm	0.0024 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0012 ppm	0.0051 ppm	-0.0451 ppm	0.0004 ppm
Recovery Percentage 1	0.691 %	-0.421 %	6.122 %	12.123 %	10.305 %	-1.196 %	5.994 %
Concentration RSD	175.2 %	388.4 %	30.4 %	4.1 %	14.0 %	47.3 %	288.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0005 ppm	0.0003 ppm	0.0020 ppm	-0.0149 ppm	-0.0001 ppm	0.0001 ppm	-0.0014 ppm
Concentration per Run 1	0.0008 ppm	0.0002 ppm	0.0022 ppm	-0.0154 ppm	-0.0008 ppm	0.0003 ppm	-0.0022 ppm
Concentration per Run 2	-0.0022 ppm	0.0003 ppm	0.0017 ppm	-0.0123 ppm	0.0002 ppm	0.0000 ppm	-0.0030 ppm
Concentration per Run 3	-0.0003 ppm	0.0003 ppm	0.0020 ppm	-0.0169 ppm	0.0001 ppm	0.0002 ppm	0.0009 ppm
Recovery Percentage 1	-0.544 %	2.735 %	3.945 %	-0.744 %	-0.516 %	1.472 %	-2.892 %
Concentration RSD	280.8 %	8.4 %	11.4 %	15.6 %	419.1 %	95.3 %	142.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	0.0071 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	-0.0004 ppm	0.0095 ppm	-0.0005 ppm	0.0002 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 2	0.0015 ppm	0.0058 ppm	-0.0006 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	0.0013 ppm	0.0059 ppm	-0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm
Recovery Percentage 1	8.226 %	1.416 %	-1.286 %	1.318 %	-0.164 %	1.467 %	3.417 %
Concentration RSD	124.3 %	29.8 %	26.3 %	40.2 %	1,528.0 %	32.6 %	72.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	91.4948 %	100.7139 %	95.7219 %	93.7419 %	101.6119 %	96.7965 %
Concentration per Run 1	0.0008 ppm	89.8276 %	100.8834 %	95.4641 %	93.2093 %	101.8662 %	97.2950 %
Concentration per Run 2	0.0004 ppm	91.8949 %	100.6541 %	95.6239 %	94.0484 %	101.5861 %	96.4459 %
Concentration per Run 3	0.0007 ppm	92.7618 %	100.6041 %	96.0776 %	93.9681 %	101.3833 %	96.6487 %
Recovery Percentage 1	12.989 %						
Concentration RSD	28.4 %	1.6 %	0.1 %	0.3 %	0.5 %	0.2 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-1 WG1975911
Analysis started at: 9/25/2024 12:37:46 PM
Rack 2
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0284 ppm
Concentration per Run 1	0.0002 ppm	0.0024 ppm	0.0005 ppm	0.0004 ppm	0.0003 ppm	0.0000 ppm	0.0283 ppm
Concentration per Run 2	0.0001 ppm	0.0040 ppm	0.0011 ppm	0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0277 ppm
Concentration per Run 3	0.0001 ppm	-0.0043 ppm	-0.0012 ppm	0.0006 ppm	0.0002 ppm	0.0000 ppm	0.0292 ppm
Recovery Percentage 1	1.852 %	0.734 %	4.168 %	1.694 %	2.291 %	-0.041 %	28.383 %
Concentration RSD	64.1 %	599.6 %	954.8 %	23.6 %	40.8 %	2,318.2 %	2.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0012 ppm	0.0196 ppm	-0.0144 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0013 ppm	0.0202 ppm	0.0140 ppm	-0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0199 ppm	-0.0374 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0011 ppm	0.0187 ppm	-0.0197 ppm	0.0007 ppm
Recovery Percentage 1	-0.292 %	0.731 %	1.681 %	11.873 %	39.208 %	-0.575 %	2.267 %
Concentration RSD	244.1 %	203.0 %	66.1 %	10.1 %	4.1 %	181.6 %	257.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0069 ppm	0.0026 ppm	0.0001 ppm	0.0022 ppm	-0.0005 ppm	-0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.0076 ppm	0.0025 ppm	0.0002 ppm	-0.0008 ppm	-0.0012 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 2	0.0065 ppm	0.0027 ppm	0.0000 ppm	0.0038 ppm	-0.0002 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run 3	0.0066 ppm	0.0025 ppm	0.0001 ppm	0.0035 ppm	-0.0001 ppm	-0.0002 ppm	0.0005 ppm
Recovery Percentage 1	6.874 %	25.787 %	0.216 %	0.110 %	-2.059 %	-0.831 %	-0.544 %
Concentration RSD	8.8 %	3.5 %	91.8 %	116.9 %	122.8 %	96.9 %	239.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	0.0110 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 1	0.0018 ppm	0.0104 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm	-0.0026 ppm	0.0001 ppm
Concentration per Run 2	0.0013 ppm	0.0117 ppm	0.0008 ppm	0.0002 ppm	0.0002 ppm	-0.0015 ppm	0.0003 ppm
Concentration per Run 3	0.0012 ppm	0.0109 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	-0.0008 ppm	0.0002 ppm
Recovery Percentage 1	14.221 %	2.206 %	1.376 %	1.457 %	-0.271 %	-8.063 %	2.003 %
Concentration RSD	21.6 %	6.0 %	80.2 %	32.2 %	810.3 %	56.1 %	55.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0100 ppm	98.3272 %	104.6927 %	97.9359 %	95.4825 %	103.8184 %	97.3639 %
Concentration per Run 1	0.0101 ppm	97.7927 %	104.1377 %	97.9935 %	95.2802 %	103.3922 %	97.6373 %
Concentration per Run 2	0.0099 ppm	98.2284 %	105.9561 %	98.6083 %	95.0448 %	104.6360 %	98.0239 %
Concentration per Run 3	0.0101 ppm	98.9604 %	103.9843 %	97.2059 %	96.1226 %	103.4269 %	96.4304 %
Recovery Percentage 1	200.964 %						
Concentration RSD	1.0 %	0.6 %	1.0 %	0.7 %	0.6 %	0.7 %	0.9 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-2D2 WG1975911
Analysis started at: 9/25/2024 12:49:16 PM
Rack 2
Vial 5
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0444 ppm	2.0163 ppm	0.1087 ppm	0.8379 ppm	2.0411 ppm	0.0523 ppm	10.1583 ppm
Concentration per Run 1	0.0430 ppm	2.0170 ppm	0.1081 ppm	0.8124 ppm	2.0380 ppm	0.0519 ppm	10.1032 ppm
Concentration per Run 2	0.0446 ppm	2.0150 ppm	0.1082 ppm	0.8381 ppm	2.0374 ppm	0.0524 ppm	10.2247 ppm
Concentration per Run 3	0.0457 ppm	2.0169 ppm	0.1099 ppm	0.8634 ppm	2.0479 ppm	0.0526 ppm	10.1472 ppm
Concentration RSD	3.1 %	0.1 %	0.9 %	3.0 %	0.3 %	0.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0459 ppm	0.4456 ppm	0.1797 ppm	0.2296 ppm	1.0564 ppm	10.3205 ppm	0.0003 ppm
Concentration per Run 1	0.0447 ppm	0.4335 ppm	0.1744 ppm	0.2222 ppm	1.0555 ppm	10.3314 ppm	0.0000 ppm
Concentration per Run 2	0.0460 ppm	0.4471 ppm	0.1804 ppm	0.2306 ppm	1.0536 ppm	10.3086 ppm	-0.0005 ppm
Concentration per Run 3	0.0471 ppm	0.4562 ppm	0.1841 ppm	0.2360 ppm	1.0603 ppm	10.3215 ppm	0.0014 ppm
Concentration RSD	2.6 %	2.6 %	2.7 %	3.0 %	0.3 %	0.1 %	336.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	8.6949 ppm	0.5199 ppm	0.8995 ppm	10.2497 ppm	0.4476 ppm	0.5213 ppm	0.4361 ppm
Concentration per Run 1	8.4533 ppm	0.5177 ppm	0.8705 ppm	10.2092 ppm	0.4354 ppm	0.5149 ppm	0.4239 ppm
Concentration per Run 2	8.7038 ppm	0.5199 ppm	0.9013 ppm	10.3296 ppm	0.4485 ppm	0.5215 ppm	0.4371 ppm
Concentration per Run 3	8.9274 ppm	0.5219 ppm	0.9266 ppm	10.2103 ppm	0.4590 ppm	0.5276 ppm	0.4472 ppm
Concentration RSD	2.7 %	0.4 %	3.1 %	0.7 %	2.6 %	1.2 %	2.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1102 ppm	0.6549 ppm	0.8529 ppm	0.9738 ppm	0.9136 ppm	0.1182 ppm	0.4617 ppm
Concentration per Run 1	0.1091 ppm	0.6359 ppm	0.8313 ppm	0.9688 ppm	0.8867 ppm	0.1169 ppm	0.4478 ppm
Concentration per Run 2	0.1094 ppm	0.6565 ppm	0.8555 ppm	0.9694 ppm	0.9177 ppm	0.1182 ppm	0.4640 ppm
Concentration per Run 3	0.1120 ppm	0.6722 ppm	0.8719 ppm	0.9832 ppm	0.9363 ppm	0.1194 ppm	0.4734 ppm
Concentration RSD	1.5 %	2.8 %	2.4 %	0.8 %	2.7 %	1.1 %	2.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4398 ppm	119.2931 %	107.3322 %	106.3009 %	101.8665 %	101.8820 %	99.5786 %
Concentration per Run 1	0.4285 ppm	122.6717 %	108.1753 %	107.4263 %	101.7617 %	102.2418 %	99.7925 %
Concentration per Run 2	0.4400 ppm	118.7575 %	106.8077 %	106.6292 %	101.4532 %	101.2267 %	99.5360 %
Concentration per Run 3	0.4509 ppm	116.4502 %	107.0136 %	104.8473 %	102.3845 %	102.1774 %	99.4073 %
Concentration RSD	2.5 %	2.6 %	0.7 %	1.2 %	0.5 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454944-01D2 WG1975911
Analysis started at: 9/25/2024 12:53:33 PM
Rack 2
Vial 21
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0061 ppm	-0.0002 ppm	0.0041 ppm	0.0036 ppm	0.0000 ppm	47.7059 ppm
Concentration per Run 1	-0.0003 ppm	-0.0103 ppm	0.0005 ppm	0.0055 ppm	0.0036 ppm	0.0000 ppm	47.7438 ppm
Concentration per Run 2	-0.0001 ppm	-0.0073 ppm	-0.0003 ppm	0.0033 ppm	0.0036 ppm	-0.0001 ppm	47.6352 ppm
Concentration per Run 3	-0.0002 ppm	-0.0005 ppm	-0.0009 ppm	0.0035 ppm	0.0036 ppm	0.0000 ppm	47.7386 ppm
Concentration RSD	40.3 %	83.1 %	335.0 %	30.0 %	0.7 %	51.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0003 ppm	0.0002 ppm	0.0004 ppm	0.0110 ppm	0.2419 ppm	15.6430 ppm	0.0006 ppm
Concentration per Run 1	-0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0111 ppm	0.2420 ppm	15.6639 ppm	0.0024 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	0.0006 ppm	0.0110 ppm	0.2409 ppm	15.5654 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0109 ppm	0.2428 ppm	15.6997 ppm	-0.0004 ppm
Concentration RSD	23.2 %	69.8 %	42.6 %	1.2 %	0.4 %	0.4 %	233.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	1.5730 ppm	0.0042 ppm	0.0043 ppm	14.6823 ppm	0.0000 ppm	0.0002 ppm	-0.0011 ppm
Concentration per Run 1	1.5752 ppm	0.0040 ppm	0.0045 ppm	14.7181 ppm	0.0004 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 2	1.5716 ppm	0.0042 ppm	0.0045 ppm	14.6617 ppm	-0.0005 ppm	-0.0003 ppm	-0.0016 ppm
Concentration per Run 3	1.5721 ppm	0.0042 ppm	0.0039 ppm	14.6670 ppm	0.0000 ppm	0.0007 ppm	-0.0019 ppm
Concentration RSD	0.1 %	2.7 %	8.1 %	0.2 %	901.0 %	290.3 %	103.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0078 ppm	0.0373 ppm	0.0003 ppm	0.0243 ppm	0.0002 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 1	0.0075 ppm	0.0380 ppm	0.0006 ppm	0.0243 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0092 ppm	0.0363 ppm	0.0004 ppm	0.0242 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 3	0.0065 ppm	0.0376 ppm	-0.0001 ppm	0.0245 ppm	0.0005 ppm	0.0017 ppm	0.0003 ppm
Concentration RSD	17.7 %	2.4 %	118.4 %	0.4 %	141.3 %	158.6 %	70.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1648 ppm	97.0424 %	104.5119 %	96.6405 %	94.2950 %	101.9453 %	95.1972 %
Concentration per Run 1	0.1646 ppm	96.8118 %	104.8981 %	96.2669 %	94.7988 %	102.3094 %	94.9912 %
Concentration per Run 2	0.1636 ppm	97.3587 %	105.0095 %	96.9353 %	94.2896 %	102.2733 %	95.3491 %
Concentration per Run 3	0.1661 ppm	96.9566 %	103.6282 %	96.7192 %	93.7965 %	101.2533 %	95.2514 %
Concentration RSD	0.8 %	0.3 %	0.7 %	0.4 %	0.5 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-01D2 WG1975911
Analysis started at: 9/25/2024 12:57:31 PM
Rack 2
Vial 22
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	43.7166 ppm	0.0392 ppm	0.0073 ppm	0.2307 ppm	0.0023 ppm	6.7739 ppm
Concentration per Run 1	0.0000 ppm	43.6392 ppm	0.0396 ppm	0.0075 ppm	0.2303 ppm	0.0024 ppm	6.7887 ppm
Concentration per Run 2	0.0002 ppm	43.6979 ppm	0.0394 ppm	0.0066 ppm	0.2306 ppm	0.0023 ppm	6.7664 ppm
Concentration per Run 3	0.0000 ppm	43.8129 ppm	0.0385 ppm	0.0079 ppm	0.2313 ppm	0.0023 ppm	6.7666 ppm
Concentration RSD	96.3 %	0.2 %	1.5 %	9.2 %	0.2 %	1.4 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0455 ppm	0.0537 ppm	0.0834 ppm	105.7237 ppm	3.0141 ppm	0.1035 ppm
Concentration per Run 1	0.0006 ppm	0.0463 ppm	0.0544 ppm	0.0851 ppm	105.6812 ppm	3.0054 ppm	0.1053 ppm
Concentration per Run 2	0.0006 ppm	0.0453 ppm	0.0537 ppm	0.0834 ppm	105.7937 ppm	3.0285 ppm	0.1048 ppm
Concentration per Run 3	0.0005 ppm	0.0451 ppm	0.0531 ppm	0.0817 ppm	105.6962 ppm	3.0084 ppm	0.1004 ppm
Concentration RSD	12.3 %	1.4 %	1.2 %	2.0 %	0.1 %	0.4 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.9255 ppm	2.5285 ppm	0.0007 ppm	0.1639 ppm	0.1005 ppm	0.0836 ppm	0.0021 ppm
Concentration per Run 1	18.1532 ppm	2.5240 ppm	0.0001 ppm	0.1599 ppm	0.1015 ppm	0.0852 ppm	0.0028 ppm
Concentration per Run 2	17.9095 ppm	2.5257 ppm	0.0012 ppm	0.1659 ppm	0.1007 ppm	0.0823 ppm	0.0003 ppm
Concentration per Run 3	17.7140 ppm	2.5357 ppm	0.0009 ppm	0.1659 ppm	0.0991 ppm	0.0834 ppm	0.0032 ppm
Concentration RSD	1.2 %	0.3 %	84.3 %	2.1 %	1.2 %	1.7 %	76.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0005 ppm	8.1592 ppm	0.0004 ppm	0.0351 ppm	0.4553 ppm	0.0004 ppm	0.0592 ppm
Concentration per Run 1	-0.0001 ppm	8.2149 ppm	0.0003 ppm	0.0352 ppm	0.4511 ppm	0.0009 ppm	0.0598 ppm
Concentration per Run 2	0.0018 ppm	8.2048 ppm	0.0010 ppm	0.0350 ppm	0.4857 ppm	0.0009 ppm	0.0592 ppm
Concentration per Run 3	-0.0002 ppm	8.0578 ppm	0.0000 ppm	0.0350 ppm	0.4293 ppm	-0.0004 ppm	0.0587 ppm
Concentration RSD	209.3 %	1.1 %	122.9 %	0.4 %	6.2 %	167.3 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2823 ppm	97.6538 %	105.5639 %	96.4224 %	105.8369 %	116.8748 %	108.8956 %
Concentration per Run 1	0.2850 ppm	97.1175 %	105.4910 %	95.8891 %	105.8793 %	116.9004 %	108.6648 %
Concentration per Run 2	0.2825 ppm	97.6340 %	105.6474 %	96.3879 %	106.0046 %	116.7238 %	108.7145 %
Concentration per Run 3	0.2794 ppm	98.2098 %	105.5533 %	96.9900 %	105.6268 %	117.0002 %	109.3076 %
Concentration RSD	1.0 %	0.6 %	0.1 %	0.6 %	0.2 %	0.1 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-03D2 WG1975911
Analysis started at: 9/25/2024 1:01:29 PM
Rack 2
Vial 23
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	43.9900 ppm	0.0436 ppm	0.0085 ppm	0.2370 ppm	0.0023 ppm	9.5811 ppm
Concentration per Run 1	0.0001 ppm	44.2261 ppm	0.0451 ppm	0.0083 ppm	0.2400 ppm	0.0023 ppm	9.5176 ppm
Concentration per Run 2	-0.0001 ppm	43.7545 ppm	0.0424 ppm	0.0082 ppm	0.2343 ppm	0.0023 ppm	9.5868 ppm
Concentration per Run 3	-0.0004 ppm	43.9894 ppm	0.0434 ppm	0.0091 ppm	0.2369 ppm	0.0024 ppm	9.6389 ppm
Concentration RSD	196.6 %	0.5 %	3.1 %	5.7 %	1.2 %	2.7 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0474 ppm	0.0553 ppm	0.0888 ppm	109.1596 ppm	3.4545 ppm	0.1054 ppm
Concentration per Run 1	0.0007 ppm	0.0483 ppm	0.0564 ppm	0.0904 ppm	110.2042 ppm	3.5170 ppm	0.1079 ppm
Concentration per Run 2	0.0006 ppm	0.0473 ppm	0.0550 ppm	0.0885 ppm	108.2586 ppm	3.4093 ppm	0.1038 ppm
Concentration per Run 3	0.0006 ppm	0.0467 ppm	0.0544 ppm	0.0873 ppm	109.0160 ppm	3.4372 ppm	0.1046 ppm
Concentration RSD	2.6 %	1.7 %	1.9 %	1.8 %	0.9 %	1.6 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	20.8843 ppm	2.6765 ppm	0.0010 ppm	0.2056 ppm	0.1044 ppm	0.1044 ppm	0.0046 ppm
Concentration per Run 1	21.2582 ppm	2.6766 ppm	0.0010 ppm	0.2082 ppm	0.1063 ppm	0.1052 ppm	0.0051 ppm
Concentration per Run 2	20.8047 ppm	2.6684 ppm	0.0010 ppm	0.1982 ppm	0.1042 ppm	0.1050 ppm	0.0048 ppm
Concentration per Run 3	20.5899 ppm	2.6846 ppm	0.0009 ppm	0.2103 ppm	0.1027 ppm	0.1030 ppm	0.0038 ppm
Concentration RSD	1.6 %	0.3 %	4.8 %	3.2 %	1.7 %	1.2 %	14.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0006 ppm	9.1184 ppm	0.0004 ppm	0.0455 ppm	0.4982 ppm	0.0001 ppm	0.0647 ppm
Concentration per Run 1	0.0034 ppm	9.5731 ppm	0.0002 ppm	0.0453 ppm	0.4990 ppm	0.0000 ppm	0.0655 ppm
Concentration per Run 2	-0.0009 ppm	9.0042 ppm	0.0004 ppm	0.0451 ppm	0.4898 ppm	-0.0001 ppm	0.0646 ppm
Concentration per Run 3	-0.0006 ppm	8.7779 ppm	0.0007 ppm	0.0460 ppm	0.5059 ppm	0.0005 ppm	0.0641 ppm
Concentration RSD	396.2 %	4.5 %	61.5 %	1.0 %	1.6 %	275.4 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2967 ppm	96.3447 %	104.0479 %	94.6049 %	106.0108 %	116.7486 %	109.0654 %
Concentration per Run 1	0.3027 ppm	95.0649 %	105.4458 %	94.5718 %	105.3179 %	117.5283 %	109.3805 %
Concentration per Run 2	0.2952 ppm	97.2008 %	104.1073 %	94.6228 %	106.6717 %	116.8845 %	108.7903 %
Concentration per Run 3	0.2922 ppm	96.7684 %	102.5906 %	94.6200 %	106.0426 %	115.8331 %	109.0254 %
Concentration RSD	1.8 %	1.2 %	1.4 %	0.0 %	0.6 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-02D2 WG1975911
Analysis started at: 9/25/2024 1:05:27 PM
Rack 2
Vial 6
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	40.1613 ppm	0.0360 ppm	0.0065 ppm	0.2014 ppm	0.0021 ppm	5.6136 ppm
Concentration per Run 1	0.0001 ppm	40.1130 ppm	0.0353 ppm	0.0052 ppm	0.2020 ppm	0.0021 ppm	5.6142 ppm
Concentration per Run 2	-0.0003 ppm	40.3114 ppm	0.0370 ppm	0.0070 ppm	0.2011 ppm	0.0021 ppm	5.6110 ppm
Concentration per Run 3	0.0000 ppm	40.0597 ppm	0.0358 ppm	0.0073 ppm	0.2009 ppm	0.0021 ppm	5.6156 ppm
Concentration RSD	589.6 %	0.3 %	2.5 %	17.5 %	0.3 %	1.4 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0005 ppm	0.0407 ppm	0.0507 ppm	0.0744 ppm	94.7585 ppm	2.8012 ppm	0.0976 ppm
Concentration per Run 1	0.0007 ppm	0.0405 ppm	0.0515 ppm	0.0762 ppm	94.8759 ppm	2.8295 ppm	0.1002 ppm
Concentration per Run 2	0.0005 ppm	0.0409 ppm	0.0506 ppm	0.0735 ppm	94.8364 ppm	2.7926 ppm	0.0967 ppm
Concentration per Run 3	0.0004 ppm	0.0408 ppm	0.0500 ppm	0.0734 ppm	94.5632 ppm	2.7814 ppm	0.0958 ppm
Concentration RSD	30.2 %	0.6 %	1.5 %	2.1 %	0.2 %	0.9 %	2.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.3079 ppm	2.2905 ppm	0.0003 ppm	0.1236 ppm	0.0931 ppm	0.0893 ppm	0.0034 ppm
Concentration per Run 1	16.5131 ppm	2.2904 ppm	0.0005 ppm	0.1221 ppm	0.0945 ppm	0.0896 ppm	0.0029 ppm
Concentration per Run 2	16.2536 ppm	2.2955 ppm	0.0003 ppm	0.1244 ppm	0.0928 ppm	0.0890 ppm	0.0039 ppm
Concentration per Run 3	16.1569 ppm	2.2856 ppm	0.0002 ppm	0.1243 ppm	0.0919 ppm	0.0894 ppm	0.0033 ppm
Concentration RSD	1.1 %	0.2 %	41.2 %	1.0 %	1.4 %	0.3 %	13.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	8.6642 ppm	0.0002 ppm	0.0311 ppm	0.3498 ppm	-0.0001 ppm	0.0545 ppm
Concentration per Run 1	0.0023 ppm	8.9232 ppm	0.0006 ppm	0.0313 ppm	0.3521 ppm	0.0003 ppm	0.0548 ppm
Concentration per Run 2	-0.0002 ppm	8.5108 ppm	-0.0001 ppm	0.0309 ppm	0.3434 ppm	-0.0002 ppm	0.0550 ppm
Concentration per Run 3	0.0040 ppm	8.5588 ppm	0.0001 ppm	0.0311 ppm	0.3539 ppm	-0.0004 ppm	0.0539 ppm
Concentration RSD	102.7 %	2.6 %	176.8 %	0.6 %	1.6 %	388.2 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2537 ppm	98.0054 %	104.0097 %	95.3535 %	104.5282 %	113.7155 %	106.0104 %
Concentration per Run 1	0.2588 ppm	97.2559 %	104.5313 %	95.4995 %	104.7849 %	114.4140 %	106.2543 %
Concentration per Run 2	0.2511 ppm	98.2748 %	103.4955 %	95.0502 %	104.4970 %	113.0069 %	105.8647 %
Concentration per Run 3	0.2513 ppm	98.4854 %	104.0024 %	95.5109 %	104.3026 %	113.7256 %	105.9121 %
Concentration RSD	1.7 %	0.7 %	0.5 %	0.3 %	0.2 %	0.6 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-3D2 WG1975911
Analysis started at: 9/25/2024 1:09:24 PM
Rack 2
Vial 7
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0541 ppm	45.6885 ppm	0.1656 ppm	1.0277 ppm	2.3420 ppm	0.0571 ppm	16.8140 ppm
Concentration per Run 1	0.0544 ppm	45.8655 ppm	0.1632 ppm	1.0320 ppm	2.3562 ppm	0.0575 ppm	16.8863 ppm
Concentration per Run 2	0.0541 ppm	45.6481 ppm	0.1673 ppm	1.0248 ppm	2.3475 ppm	0.0571 ppm	16.7735 ppm
Concentration per Run 3	0.0539 ppm	45.5519 ppm	0.1664 ppm	1.0263 ppm	2.3223 ppm	0.0565 ppm	16.7823 ppm
Concentration RSD	0.5 %	0.4 %	1.3 %	0.4 %	0.8 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0549 ppm	0.5657 ppm	0.2652 ppm	0.3539 ppm	99.4055 ppm	13.1042 ppm	0.1027 ppm
Concentration per Run 1	0.0551 ppm	0.5678 ppm	0.2660 ppm	0.3543 ppm	99.9025 ppm	13.2125 ppm	0.1036 ppm
Concentration per Run 2	0.0547 ppm	0.5636 ppm	0.2654 ppm	0.3533 ppm	99.4976 ppm	13.1199 ppm	0.1036 ppm
Concentration per Run 3	0.0549 ppm	0.5657 ppm	0.2641 ppm	0.3540 ppm	98.8164 ppm	12.9803 ppm	0.1009 ppm
Concentration RSD	0.4 %	0.4 %	0.4 %	0.1 %	0.6 %	0.9 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.1701 ppm	2.7663 ppm	1.0526 ppm	10.9878 ppm	0.6244 ppm	0.6943 ppm	0.5202 ppm
Concentration per Run 1	28.2725 ppm	2.7770 ppm	1.0473 ppm	10.9983 ppm	0.6269 ppm	0.6954 ppm	0.5231 ppm
Concentration per Run 2	28.1495 ppm	2.7643 ppm	1.0499 ppm	11.0120 ppm	0.6256 ppm	0.6945 ppm	0.5188 ppm
Concentration per Run 3	28.0884 ppm	2.7575 ppm	1.0606 ppm	10.9529 ppm	0.6206 ppm	0.6931 ppm	0.5185 ppm
Concentration RSD	0.3 %	0.4 %	0.7 %	0.3 %	0.5 %	0.2 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1261 ppm	11.0525 ppm	1.0117 ppm	1.0625 ppm	1.4386 ppm	0.1316 ppm	0.6006 ppm
Concentration per Run 1	0.1297 ppm	11.2097 ppm	1.0145 ppm	1.0701 ppm	1.4423 ppm	0.1305 ppm	0.6038 ppm
Concentration per Run 2	0.1235 ppm	11.0214 ppm	1.0135 ppm	1.0638 ppm	1.4269 ppm	0.1310 ppm	0.5994 ppm
Concentration per Run 3	0.1253 ppm	10.9264 ppm	1.0070 ppm	1.0536 ppm	1.4468 ppm	0.1333 ppm	0.5985 ppm
Concentration RSD	2.5 %	1.3 %	0.4 %	0.8 %	0.7 %	1.1 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7972 ppm	96.4182 %	104.6007 %	92.0957 %	102.4282 %	114.1033 %	104.3946 %
Concentration per Run 1	0.7993 ppm	95.7100 %	104.7027 %	92.1110 %	101.8005 %	114.3406 %	104.1428 %
Concentration per Run 2	0.7931 ppm	96.9414 %	104.1143 %	92.1120 %	102.9498 %	112.5242 %	104.2593 %
Concentration per Run 3	0.7991 ppm	96.6034 %	104.9850 %	92.0641 %	102.5344 %	115.4450 %	104.7816 %
Concentration RSD	0.4 %	0.7 %	0.4 %	0.0 %	0.6 %	1.3 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-4D2 WG1975911
Analysis started at: 9/25/2024 1:13:22 PM
Rack 2
Vial 8
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0551 ppm	46.0857 ppm	0.1718 ppm	1.0481 ppm	2.3792 ppm	0.0576 ppm	16.6022 ppm
Concentration per Run 1	0.0552 ppm	46.2851 ppm	0.1750 ppm	1.0512 ppm	2.3874 ppm	0.0582 ppm	16.6986 ppm
Concentration per Run 2	0.0549 ppm	46.0647 ppm	0.1713 ppm	1.0399 ppm	2.3892 ppm	0.0576 ppm	16.5875 ppm
Concentration per Run 3	0.0552 ppm	45.9073 ppm	0.1692 ppm	1.0531 ppm	2.3610 ppm	0.0571 ppm	16.5204 ppm
Concentration RSD	0.4 %	0.4 %	1.7 %	0.7 %	0.7 %	0.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0562 ppm	0.5786 ppm	0.2697 ppm	0.3646 ppm	106.3934 ppm	13.2634 ppm	0.1063 ppm
Concentration per Run 1	0.0564 ppm	0.5803 ppm	0.2698 ppm	0.3658 ppm	106.7405 ppm	13.2957 ppm	0.1066 ppm
Concentration per Run 2	0.0560 ppm	0.5774 ppm	0.2687 ppm	0.3632 ppm	106.6441 ppm	13.2557 ppm	0.1073 ppm
Concentration per Run 3	0.0562 ppm	0.5781 ppm	0.2706 ppm	0.3648 ppm	105.7955 ppm	13.2387 ppm	0.1049 ppm
Concentration RSD	0.3 %	0.3 %	0.4 %	0.4 %	0.5 %	0.2 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.9708 ppm	2.8428 ppm	1.0737 ppm	11.0576 ppm	0.6342 ppm	0.6979 ppm	0.5328 ppm
Concentration per Run 1	28.0279 ppm	2.8604 ppm	1.0704 ppm	11.0989 ppm	0.6336 ppm	0.7008 ppm	0.5303 ppm
Concentration per Run 2	27.9126 ppm	2.8373 ppm	1.0675 ppm	11.0903 ppm	0.6321 ppm	0.6978 ppm	0.5331 ppm
Concentration per Run 3	27.9718 ppm	2.8307 ppm	1.0833 ppm	10.9836 ppm	0.6368 ppm	0.6951 ppm	0.5350 ppm
Concentration RSD	0.2 %	0.5 %	0.8 %	0.6 %	0.4 %	0.4 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1281 ppm	10.9912 ppm	1.0261 ppm	1.0721 ppm	1.4702 ppm	0.1314 ppm	0.6082 ppm
Concentration per Run 1	0.1300 ppm	11.0766 ppm	1.0276 ppm	1.0788 ppm	1.4731 ppm	0.1303 ppm	0.6117 ppm
Concentration per Run 2	0.1263 ppm	10.9946 ppm	1.0191 ppm	1.0718 ppm	1.4640 ppm	0.1319 ppm	0.6062 ppm
Concentration per Run 3	0.1280 ppm	10.9024 ppm	1.0316 ppm	1.0656 ppm	1.4734 ppm	0.1321 ppm	0.6065 ppm
Concentration RSD	1.4 %	0.8 %	0.6 %	0.6 %	0.4 %	0.8 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8102 ppm	97.4529 %	106.3498 %	93.0198 %	104.4038 %	116.5492 %	105.7940 %
Concentration per Run 1	0.8112 ppm	97.1958 %	105.6025 %	93.1137 %	104.3659 %	116.8444 %	105.7786 %
Concentration per Run 2	0.8059 ppm	98.0365 %	106.6560 %	93.0433 %	105.0138 %	116.9856 %	106.0544 %
Concentration per Run 3	0.8134 ppm	97.1265 %	106.7909 %	92.9023 %	103.8317 %	115.8177 %	105.5490 %
Concentration RSD	0.5 %	0.5 %	0.6 %	0.1 %	0.6 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-5D2 WG1975911
Analysis started at: 9/25/2024 1:17:19 PM
Rack 2
Vial 9
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0496 ppm	39.1518 ppm	0.1509 ppm	0.9524 ppm	2.1160 ppm	0.0522 ppm	14.9421 ppm
Concentration per Run 1	0.0500 ppm	38.8721 ppm	0.1499 ppm	0.9509 ppm	2.1090 ppm	0.0526 ppm	15.0066 ppm
Concentration per Run 2	0.0495 ppm	39.5976 ppm	0.1507 ppm	0.9501 ppm	2.1268 ppm	0.0515 ppm	14.8678 ppm
Concentration per Run 3	0.0494 ppm	38.9857 ppm	0.1522 ppm	0.9563 ppm	2.1122 ppm	0.0527 ppm	14.9519 ppm
Concentration RSD	0.7 %	1.0 %	0.8 %	0.4 %	0.4 %	1.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0506 ppm	0.5140 ppm	0.2396 ppm	0.3174 ppm	88.4196 ppm	12.4471 ppm	0.0914 ppm
Concentration per Run 1	0.0507 ppm	0.5158 ppm	0.2407 ppm	0.3190 ppm	87.9148 ppm	12.3776 ppm	0.0914 ppm
Concentration per Run 2	0.0504 ppm	0.5120 ppm	0.2389 ppm	0.3174 ppm	89.1550 ppm	12.6778 ppm	0.0937 ppm
Concentration per Run 3	0.0508 ppm	0.5140 ppm	0.2391 ppm	0.3157 ppm	88.1890 ppm	12.2859 ppm	0.0890 ppm
Concentration RSD	0.3 %	0.4 %	0.4 %	0.5 %	0.7 %	1.6 %	2.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.4127 ppm	2.5948 ppm	0.9570 ppm	9.8647 ppm	0.5670 ppm	0.6114 ppm	0.4276 ppm
Concentration per Run 1	24.6169 ppm	2.5938 ppm	0.9500 ppm	9.7147 ppm	0.5669 ppm	0.6103 ppm	0.4252 ppm
Concentration per Run 2	24.3011 ppm	2.5963 ppm	0.9561 ppm	10.0732 ppm	0.5665 ppm	0.6134 ppm	0.4253 ppm
Concentration per Run 3	24.3201 ppm	2.5944 ppm	0.9648 ppm	9.8064 ppm	0.5675 ppm	0.6103 ppm	0.4324 ppm
Concentration RSD	0.7 %	0.1 %	0.8 %	1.9 %	0.1 %	0.3 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1206 ppm	7.8709 ppm	0.9484 ppm	0.9908 ppm	1.2898 ppm	0.1218 ppm	0.5431 ppm
Concentration per Run 1	0.1179 ppm	7.9333 ppm	0.9482 ppm	0.9993 ppm	1.2947 ppm	0.1219 ppm	0.5462 ppm
Concentration per Run 2	0.1217 ppm	7.8622 ppm	0.9418 ppm	0.9757 ppm	1.3036 ppm	0.1231 ppm	0.5420 ppm
Concentration per Run 3	0.1222 ppm	7.8173 ppm	0.9553 ppm	0.9975 ppm	1.2709 ppm	0.1202 ppm	0.5413 ppm
Concentration RSD	1.9 %	0.7 %	0.7 %	1.3 %	1.3 %	1.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7064 ppm	97.7276 %	105.3126 %	93.6701 %	102.9100 %	114.2258 %	104.3254 %
Concentration per Run 1	0.7078 ppm	96.9290 %	104.7594 %	93.9878 %	102.7336 %	113.7855 %	104.3824 %
Concentration per Run 2	0.7020 ppm	98.5112 %	106.4899 %	93.6702 %	103.4263 %	114.4157 %	104.6136 %
Concentration per Run 3	0.7094 ppm	97.7426 %	104.6885 %	93.3522 %	102.5702 %	114.4760 %	103.9802 %
Concentration RSD	0.6 %	0.8 %	1.0 %	0.3 %	0.4 %	0.3 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-6D10 WG1975911
Analysis started at: 9/25/2024 1:21:16 PM
Rack 2
Vial 10
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0004 ppm	7.9583 ppm	0.0075 ppm	0.0022 ppm	0.0393 ppm	0.0004 ppm	1.0774 ppm
Concentration per Run 1	-0.0001 ppm	7.9475 ppm	0.0066 ppm	0.0021 ppm	0.0391 ppm	0.0004 ppm	1.0754 ppm
Concentration per Run 2	-0.0001 ppm	7.9923 ppm	0.0083 ppm	0.0023 ppm	0.0394 ppm	0.0004 ppm	1.0825 ppm
Concentration per Run 3	-0.0008 ppm	7.9352 ppm	0.0076 ppm	0.0022 ppm	0.0393 ppm	0.0004 ppm	1.0744 ppm
Concentration RSD	112.2 %	0.4 %	11.3 %	5.9 %	0.3 %	9.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0080 ppm	0.0097 ppm	0.0148 ppm	19.1223 ppm	0.5406 ppm	0.0217 ppm
Concentration per Run 1	0.0002 ppm	0.0079 ppm	0.0097 ppm	0.0149 ppm	18.9920 ppm	0.5540 ppm	0.0222 ppm
Concentration per Run 2	0.0000 ppm	0.0080 ppm	0.0096 ppm	0.0146 ppm	19.2656 ppm	0.5618 ppm	0.0216 ppm
Concentration per Run 3	0.0002 ppm	0.0082 ppm	0.0097 ppm	0.0148 ppm	19.1093 ppm	0.5059 ppm	0.0211 ppm
Concentration RSD	56.3 %	2.0 %	0.5 %	1.3 %	0.7 %	5.6 %	2.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.1571 ppm	0.4532 ppm	0.0045 ppm	0.0090 ppm	0.0179 ppm	0.0165 ppm	0.0065 ppm
Concentration per Run 1	3.1910 ppm	0.4513 ppm	0.0045 ppm	0.0119 ppm	0.0180 ppm	0.0162 ppm	0.0040 ppm
Concentration per Run 2	3.1442 ppm	0.4554 ppm	0.0043 ppm	0.0071 ppm	0.0180 ppm	0.0167 ppm	0.0059 ppm
Concentration per Run 3	3.1359 ppm	0.4530 ppm	0.0047 ppm	0.0082 ppm	0.0178 ppm	0.0166 ppm	0.0095 ppm
Concentration RSD	0.9 %	0.4 %	4.4 %	27.9 %	0.6 %	1.8 %	42.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	1.5851 ppm	0.0008 ppm	0.0061 ppm	0.0641 ppm	-0.0004 ppm	0.0105 ppm
Concentration per Run 1	-0.0013 ppm	1.5917 ppm	0.0011 ppm	0.0062 ppm	0.0699 ppm	-0.0004 ppm	0.0107 ppm
Concentration per Run 2	0.0016 ppm	1.5670 ppm	0.0009 ppm	0.0062 ppm	0.0625 ppm	-0.0001 ppm	0.0103 ppm
Concentration per Run 3	-0.0001 ppm	1.5966 ppm	0.0003 ppm	0.0059 ppm	0.0601 ppm	-0.0005 ppm	0.0104 ppm
Concentration RSD	2,448.3 %	1.0 %	57.5 %	2.3 %	7.9 %	61.5 %	1.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0493 ppm	97.5254 %	105.6767 %	98.7430 %	97.3285 %	106.3607 %	99.9452 %
Concentration per Run 1	0.0501 ppm	96.4990 %	105.9760 %	98.5590 %	96.9890 %	106.8056 %	99.7253 %
Concentration per Run 2	0.0486 ppm	98.2178 %	105.0740 %	98.5818 %	97.7640 %	105.7410 %	99.7133 %
Concentration per Run 3	0.0490 ppm	97.8596 %	105.9802 %	99.0883 %	97.2325 %	106.5356 %	100.3970 %
Concentration RSD	1.6 %	0.9 %	0.5 %	0.3 %	0.4 %	0.5 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 1:25:14 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4992 ppm	0.4782 ppm	0.4732 ppm	0.4919 ppm	0.5015 ppm	0.5156 ppm	0.4888 ppm
Concentration per Run 1	0.5028 ppm	0.4778 ppm	0.4763 ppm	0.4982 ppm	0.5019 ppm	0.5202 ppm	0.4900 ppm
Concentration per Run 2	0.4984 ppm	0.4753 ppm	0.4715 ppm	0.4907 ppm	0.5020 ppm	0.5117 ppm	0.4876 ppm
Concentration per Run 3	0.4964 ppm	0.4815 ppm	0.4717 ppm	0.4867 ppm	0.5006 ppm	0.5149 ppm	0.4888 ppm
Recovery Percentage 1	99.845 %	95.634 %	94.636 %	98.374 %	100.296 %	103.127 %	97.761 %
Concentration RSD	0.7 %	0.7 %	0.6 %	1.2 %	0.1 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5035 ppm	0.5042 ppm	0.4984 ppm	0.4878 ppm	0.5081 ppm	5.0674 ppm	0.4713 ppm
Concentration per Run 1	0.5086 ppm	0.5087 ppm	0.5014 ppm	0.4926 ppm	0.5097 ppm	5.0514 ppm	0.4714 ppm
Concentration per Run 2	0.5008 ppm	0.5024 ppm	0.4959 ppm	0.4873 ppm	0.5086 ppm	5.0659 ppm	0.4685 ppm
Concentration per Run 3	0.5012 ppm	0.5014 ppm	0.4979 ppm	0.4836 ppm	0.5061 ppm	5.0848 ppm	0.4739 ppm
Recovery Percentage 1	100.708 %	100.831 %	99.680 %	97.564 %	101.628 %	101.347 %	94.255 %
Concentration RSD	0.9 %	0.8 %	0.6 %	0.9 %	0.4 %	0.3 %	0.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4915 ppm	0.4974 ppm	0.4942 ppm	9.9112 ppm	0.5041 ppm	0.4938 ppm	0.4975 ppm
Concentration per Run 1	0.4929 ppm	0.4970 ppm	0.4957 ppm	9.8360 ppm	0.5093 ppm	0.4967 ppm	0.5014 ppm
Concentration per Run 2	0.4907 ppm	0.4981 ppm	0.4914 ppm	9.9432 ppm	0.5018 ppm	0.4910 ppm	0.4955 ppm
Concentration per Run 3	0.4909 ppm	0.4971 ppm	0.4955 ppm	9.9544 ppm	0.5013 ppm	0.4938 ppm	0.4957 ppm
Recovery Percentage 1	98.299 %	99.479 %	98.841 %	99.112 %	100.823 %	98.766 %	99.507 %
Concentration RSD	0.2 %	0.1 %	0.5 %	0.7 %	0.9 %	0.6 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4879 ppm	5.5378 ppm	0.4814 ppm	0.4853 ppm	0.5027 ppm	0.4891 ppm	0.5008 ppm
Concentration per Run 1	0.4925 ppm	5.5779 ppm	0.4851 ppm	0.4872 ppm	0.5068 ppm	0.4922 ppm	0.5047 ppm
Concentration per Run 2	0.4857 ppm	5.5247 ppm	0.4817 ppm	0.4852 ppm	0.5025 ppm	0.4890 ppm	0.5004 ppm
Concentration per Run 3	0.4854 ppm	5.5108 ppm	0.4773 ppm	0.4835 ppm	0.4988 ppm	0.4861 ppm	0.4972 ppm
Recovery Percentage 1	97.574 %	105.482 %	96.279 %	97.060 %	100.538 %	97.822 %	100.151 %
Concentration RSD	0.8 %	0.6 %	0.8 %	0.4 %	0.8 %	0.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5000 ppm	98.1277 %	104.7489 %	98.7743 %	94.8364 %	102.6484 %	97.0325 %
Concentration per Run 1	0.5046 ppm	97.0110 %	104.2030 %	98.3472 %	94.2365 %	102.4817 %	97.2868 %
Concentration per Run 2	0.4933 ppm	98.8754 %	104.5765 %	98.9583 %	95.5496 %	102.2517 %	96.9129 %
Concentration per Run 3	0.5021 ppm	98.4967 %	105.4671 %	99.0175 %	94.7230 %	103.2118 %	96.8977 %
Recovery Percentage 1	100.005 %						
Concentration RSD	1.2 %	1.0 %	0.6 %	0.4 %	0.7 %	0.5 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 1:29:12 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0106 ppm	0.0012 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 1	-0.0003 ppm	-0.0130 ppm	0.0017 ppm	0.0005 ppm	-0.0002 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0047 ppm	0.0012 ppm	0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	-0.0141 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0040 ppm
Recovery Percentage 1	-0.515 %	-10.618 %	38.945 %	1.870 %	-0.777 %	-0.666 %	1.414 %
Concentration RSD	557.9 %	48.3 %	42.7 %	55.4 %	148.7 %	76.8 %	167.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0050 ppm	-0.0318 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm	0.0042 ppm	-0.0134 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0009 ppm	0.0055 ppm	-0.0376 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0011 ppm	0.0053 ppm	-0.0444 ppm	0.0007 ppm
Recovery Percentage 1	0.224 %	1.644 %	1.468 %	9.444 %	9.992 %	-1.272 %	7.822 %
Concentration RSD	530.6 %	28.7 %	44.0 %	13.5 %	14.1 %	51.2 %	20.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0010 ppm	0.0002 ppm	0.0024 ppm	-0.0126 ppm	0.0001 ppm	-0.0001 ppm	-0.0023 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0021 ppm	-0.0110 ppm	0.0001 ppm	-0.0004 ppm	-0.0025 ppm
Concentration per Run 2	0.0007 ppm	0.0002 ppm	0.0025 ppm	-0.0091 ppm	0.0005 ppm	0.0004 ppm	-0.0013 ppm
Concentration per Run 3	0.0018 ppm	0.0004 ppm	0.0027 ppm	-0.0177 ppm	-0.0004 ppm	-0.0003 ppm	-0.0032 ppm
Recovery Percentage 1	0.972 %	2.029 %	4.815 %	-0.629 %	0.320 %	-1.038 %	-4.651 %
Concentration RSD	79.7 %	83.3 %	12.7 %	35.8 %	593.3 %	400.8 %	41.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	0.0068 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0013 ppm	0.0067 ppm	0.0004 ppm	0.0002 ppm	0.0001 ppm	-0.0009 ppm	0.0003 ppm
Concentration per Run 2	0.0030 ppm	0.0074 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0009 ppm	0.0063 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm
Recovery Percentage 1	17.151 %	1.359 %	-0.102 %	0.969 %	0.618 %	-0.458 %	2.926 %
Concentration RSD	64.0 %	8.8 %	1,524.0 %	89.6 %	98.2 %	766.1 %	26.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	94.5270 %	101.5528 %	96.0343 %	95.8669 %	102.3157 %	96.9750 %
Concentration per Run 1	0.0005 ppm	98.7052 %	100.9525 %	95.2755 %	99.9744 %	101.8841 %	96.5999 %
Concentration per Run 2	0.0007 ppm	91.4105 %	102.5292 %	96.3547 %	92.9311 %	103.4589 %	97.3495 %
Concentration per Run 3	0.0008 ppm	93.4654 %	101.1768 %	96.4728 %	94.6951 %	101.6042 %	96.9755 %
Recovery Percentage 1	13.190 %						
Concentration RSD	27.9 %	4.0 %	0.8 %	0.7 %	3.8 %	1.0 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-05D2 WG1975911
Analysis started at: 9/25/2024 1:34:17 PM
Rack 2
Vial 24
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	44.0347 ppm	0.0425 ppm	0.0065 ppm	0.2233 ppm	0.0024 ppm	5.9950 ppm
Concentration per Run 1	0.0001 ppm	44.1888 ppm	0.0438 ppm	0.0074 ppm	0.2241 ppm	0.0024 ppm	5.9980 ppm
Concentration per Run 2	-0.0001 ppm	43.9536 ppm	0.0417 ppm	0.0056 ppm	0.2211 ppm	0.0024 ppm	5.9889 ppm
Concentration per Run 3	0.0003 ppm	43.9617 ppm	0.0420 ppm	0.0067 ppm	0.2249 ppm	0.0024 ppm	5.9979 ppm
Concentration RSD	205.2 %	0.3 %	2.7 %	14.2 %	0.9 %	1.1 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0459 ppm	0.0521 ppm	0.0824 ppm	106.2599 ppm	3.3129 ppm	0.1067 ppm
Concentration per Run 1	0.0007 ppm	0.0463 ppm	0.0527 ppm	0.0834 ppm	106.4747 ppm	3.3589 ppm	0.1094 ppm
Concentration per Run 2	0.0006 ppm	0.0459 ppm	0.0520 ppm	0.0822 ppm	105.3894 ppm	3.2826 ppm	0.1047 ppm
Concentration per Run 3	0.0006 ppm	0.0454 ppm	0.0516 ppm	0.0817 ppm	106.9155 ppm	3.2973 ppm	0.1060 ppm
Concentration RSD	10.1 %	0.9 %	1.1 %	1.1 %	0.7 %	1.2 %	2.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	17.5680 ppm	2.4759 ppm	0.0006 ppm	0.1383 ppm	0.1006 ppm	0.0862 ppm	0.0029 ppm
Concentration per Run 1	17.7421 ppm	2.4739 ppm	0.0005 ppm	0.1371 ppm	0.1015 ppm	0.0864 ppm	0.0020 ppm
Concentration per Run 2	17.5371 ppm	2.4680 ppm	0.0006 ppm	0.1382 ppm	0.0999 ppm	0.0844 ppm	0.0014 ppm
Concentration per Run 3	17.4249 ppm	2.4858 ppm	0.0005 ppm	0.1397 ppm	0.1003 ppm	0.0876 ppm	0.0051 ppm
Concentration RSD	0.9 %	0.4 %	11.1 %	1.0 %	0.8 %	1.9 %	70.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	8.7691 ppm	0.0009 ppm	0.0387 ppm	0.4918 ppm	0.0005 ppm	0.0609 ppm
Concentration per Run 1	-0.0003 ppm	8.9068 ppm	0.0012 ppm	0.0389 ppm	0.4943 ppm	0.0008 ppm	0.0610 ppm
Concentration per Run 2	0.0023 ppm	8.6962 ppm	0.0006 ppm	0.0382 ppm	0.4952 ppm	0.0008 ppm	0.0607 ppm
Concentration per Run 3	0.0013 ppm	8.7041 ppm	0.0010 ppm	0.0389 ppm	0.4861 ppm	0.0000 ppm	0.0609 ppm
Concentration RSD	119.2 %	1.4 %	34.2 %	1.1 %	1.0 %	93.8 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2806 ppm	98.6079 %	105.2621 %	96.6122 %	107.5995 %	117.7606 %	109.9212 %
Concentration per Run 1	0.2854 ppm	97.1963 %	105.2429 %	96.4187 %	106.7609 %	117.7813 %	109.5133 %
Concentration per Run 2	0.2801 ppm	98.8144 %	106.6458 %	97.0345 %	107.7032 %	119.4195 %	110.4082 %
Concentration per Run 3	0.2762 ppm	99.8131 %	103.8974 %	96.3833 %	108.3343 %	116.0809 %	109.8420 %
Concentration RSD	1.6 %	1.3 %	1.3 %	0.4 %	0.7 %	1.4 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-07D2 WG1975911
Analysis started at: 9/25/2024 1:38:15 PM
Rack 2
Vial 25
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0008 ppm	47.7192 ppm	0.0533 ppm	0.0109 ppm	0.2710 ppm	0.0027 ppm	10.3362 ppm
Concentration per Run 1	0.0010 ppm	47.7936 ppm	0.0538 ppm	0.0111 ppm	0.2731 ppm	0.0027 ppm	10.3104 ppm
Concentration per Run 2	0.0008 ppm	47.7156 ppm	0.0530 ppm	0.0104 ppm	0.2706 ppm	0.0027 ppm	10.3223 ppm
Concentration per Run 3	0.0006 ppm	47.6485 ppm	0.0532 ppm	0.0112 ppm	0.2693 ppm	0.0027 ppm	10.3760 ppm
Concentration RSD	28.8 %	0.2 %	0.8 %	4.1 %	0.7 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0167 ppm	0.0382 ppm	0.1061 ppm	0.3376 ppm	180.5419 ppm	3.3864 ppm	0.1108 ppm
Concentration per Run 1	0.0168 ppm	0.0392 ppm	0.1076 ppm	0.3405 ppm	180.3090 ppm	3.3972 ppm	0.1117 ppm
Concentration per Run 2	0.0165 ppm	0.0379 ppm	0.1058 ppm	0.3371 ppm	181.2616 ppm	3.4258 ppm	0.1115 ppm
Concentration per Run 3	0.0166 ppm	0.0375 ppm	0.1048 ppm	0.3352 ppm	180.0549 ppm	3.3360 ppm	0.1091 ppm
Concentration RSD	1.0 %	2.4 %	1.3 %	0.8 %	0.4 %	1.4 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.6037 ppm	2.2079 ppm	0.0045 ppm	0.1343 ppm	0.1134 ppm	9.8544 ppm	0.0531 ppm
Concentration per Run 1	19.9158 ppm	2.2069 ppm	0.0042 ppm	0.1344 ppm	0.1164 ppm	9.8958 ppm	0.0525 ppm
Concentration per Run 2	19.5235 ppm	2.2051 ppm	0.0052 ppm	0.1347 ppm	0.1124 ppm	9.8318 ppm	0.0533 ppm
Concentration per Run 3	19.3718 ppm	2.2118 ppm	0.0042 ppm	0.1337 ppm	0.1113 ppm	9.8357 ppm	0.0535 ppm
Concentration RSD	1.4 %	0.2 %	12.9 %	0.4 %	2.4 %	0.4 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	8.2890 ppm	0.0088 ppm	0.0608 ppm	0.3304 ppm	0.0002 ppm	0.1040 ppm
Concentration per Run 1	0.0001 ppm	8.5441 ppm	0.0083 ppm	0.0610 ppm	0.3349 ppm	0.0002 ppm	0.1053 ppm
Concentration per Run 2	0.0032 ppm	8.2155 ppm	0.0087 ppm	0.0609 ppm	0.3330 ppm	0.0007 ppm	0.1034 ppm
Concentration per Run 3	0.0008 ppm	8.1075 ppm	0.0095 ppm	0.0605 ppm	0.3233 ppm	-0.0002 ppm	0.1034 ppm
Concentration RSD	115.6 %	2.7 %	7.1 %	0.4 %	1.9 %	199.1 %	1.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	5.6453 ppm	98.8044 %	109.7163 %	95.1088 %	103.5116 %	116.9298 %	105.1431 %
Concentration per Run 1	5.7297 ppm	97.4056 %	111.1542 %	95.1319 %	102.2319 %	118.2247 %	105.0634 %
Concentration per Run 2	5.6337 ppm	99.2087 %	109.0789 %	95.2976 %	104.0980 %	116.5621 %	105.5408 %
Concentration per Run 3	5.5726 ppm	99.7990 %	108.9159 %	94.8969 %	104.2050 %	116.0027 %	104.8250 %
Concentration RSD	1.4 %	1.3 %	1.1 %	0.2 %	1.1 %	1.0 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-09D2 WG1975911
Analysis started at: 9/25/2024 1:42:13 PM
Rack 2
Vial 26
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	68.5936 ppm	0.0395 ppm	0.0088 ppm	0.3087 ppm	0.0035 ppm	5.7415 ppm
Concentration per Run 1	0.0002 ppm	68.9058 ppm	0.0402 ppm	0.0087 ppm	0.3110 ppm	0.0036 ppm	5.7516 ppm
Concentration per Run 2	0.0000 ppm	68.6663 ppm	0.0392 ppm	0.0093 ppm	0.3087 ppm	0.0035 ppm	5.7115 ppm
Concentration per Run 3	0.0001 ppm	68.2087 ppm	0.0392 ppm	0.0085 ppm	0.3065 ppm	0.0036 ppm	5.7614 ppm
Concentration RSD	146.7 %	0.5 %	1.4 %	5.0 %	0.7 %	1.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0530 ppm	0.0846 ppm	0.1032 ppm	148.1072 ppm	3.1358 ppm	0.1400 ppm
Concentration per Run 1	0.0006 ppm	0.0542 ppm	0.0862 ppm	0.1043 ppm	148.5851 ppm	3.1828 ppm	0.1428 ppm
Concentration per Run 2	0.0005 ppm	0.0522 ppm	0.0843 ppm	0.1035 ppm	147.5317 ppm	3.1169 ppm	0.1393 ppm
Concentration per Run 3	0.0007 ppm	0.0524 ppm	0.0832 ppm	0.1018 ppm	148.2048 ppm	3.1078 ppm	0.1381 ppm
Concentration RSD	16.8 %	2.1 %	1.8 %	1.2 %	0.4 %	1.3 %	1.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	24.6726 ppm	3.4618 ppm	0.0005 ppm	0.1420 ppm	0.1295 ppm	0.1361 ppm	0.0026 ppm
Concentration per Run 1	24.9997 ppm	3.4726 ppm	0.0005 ppm	0.1457 ppm	0.1317 ppm	0.1368 ppm	0.0012 ppm
Concentration per Run 2	24.5580 ppm	3.4494 ppm	0.0001 ppm	0.1425 ppm	0.1291 ppm	0.1367 ppm	0.0036 ppm
Concentration per Run 3	24.4600 ppm	3.4635 ppm	0.0009 ppm	0.1377 ppm	0.1277 ppm	0.1347 ppm	0.0028 ppm
Concentration RSD	1.2 %	0.3 %	72.6 %	2.8 %	1.5 %	0.9 %	49.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0021 ppm	10.5843 ppm	0.0013 ppm	0.0555 ppm	0.3416 ppm	0.0000 ppm	0.0871 ppm
Concentration per Run 1	0.0017 ppm	10.6931 ppm	0.0017 ppm	0.0554 ppm	0.3602 ppm	-0.0001 ppm	0.0881 ppm
Concentration per Run 2	0.0029 ppm	10.7095 ppm	0.0012 ppm	0.0552 ppm	0.3342 ppm	-0.0011 ppm	0.0866 ppm
Concentration per Run 3	0.0016 ppm	10.3504 ppm	0.0011 ppm	0.0558 ppm	0.3303 ppm	0.0011 ppm	0.0867 ppm
Concentration RSD	36.1 %	1.9 %	23.3 %	0.6 %	4.8 %	2,934.5 %	0.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3756 ppm	99.2883 %	106.5148 %	95.6783 %	106.8115 %	116.9232 %	108.0355 %
Concentration per Run 1	0.3816 ppm	97.8263 %	107.4004 %	95.4259 %	105.6278 %	118.1161 %	107.9489 %
Concentration per Run 2	0.3737 ppm	99.8589 %	107.5200 %	95.9101 %	107.8219 %	117.3906 %	108.2222 %
Concentration per Run 3	0.3714 ppm	100.1797 %	104.6241 %	95.6990 %	106.9847 %	115.2630 %	107.9354 %
Concentration RSD	1.4 %	1.3 %	1.5 %	0.3 %	1.0 %	1.3 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-10D2 WG1975911
Analysis started at: 9/25/2024 1:46:11 PM
Rack 2
Vial 27
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	42.5012 ppm	0.0354 ppm	0.0099 ppm	0.2688 ppm	0.0022 ppm	6.5109 ppm
Concentration per Run 1	0.0001 ppm	42.6280 ppm	0.0348 ppm	0.0111 ppm	0.2687 ppm	0.0022 ppm	6.5245 ppm
Concentration per Run 2	0.0000 ppm	42.6908 ppm	0.0365 ppm	0.0102 ppm	0.2690 ppm	0.0022 ppm	6.5432 ppm
Concentration per Run 3	0.0003 ppm	42.1849 ppm	0.0348 ppm	0.0085 ppm	0.2687 ppm	0.0022 ppm	6.4651 ppm
Concentration RSD	113.7 %	0.6 %	2.9 %	13.0 %	0.1 %	2.0 %	0.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0401 ppm	0.0521 ppm	0.0784 ppm	94.6535 ppm	4.8160 ppm	0.0926 ppm
Concentration per Run 1	0.0020 ppm	0.0406 ppm	0.0524 ppm	0.0789 ppm	94.9840 ppm	4.8348 ppm	0.0933 ppm
Concentration per Run 2	0.0021 ppm	0.0395 ppm	0.0516 ppm	0.0782 ppm	94.8188 ppm	4.8322 ppm	0.0935 ppm
Concentration per Run 3	0.0020 ppm	0.0403 ppm	0.0524 ppm	0.0781 ppm	94.1575 ppm	4.7811 ppm	0.0911 ppm
Concentration RSD	2.6 %	1.4 %	0.9 %	0.6 %	0.5 %	0.6 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.0710 ppm	2.2974 ppm	0.0006 ppm	0.3585 ppm	0.0883 ppm	0.9880 ppm	0.0332 ppm
Concentration per Run 1	16.2593 ppm	2.2983 ppm	0.0005 ppm	0.3522 ppm	0.0904 ppm	0.9887 ppm	0.0346 ppm
Concentration per Run 2	16.0128 ppm	2.3104 ppm	0.0004 ppm	0.3571 ppm	0.0875 ppm	0.9894 ppm	0.0324 ppm
Concentration per Run 3	15.9408 ppm	2.2836 ppm	0.0009 ppm	0.3661 ppm	0.0872 ppm	0.9857 ppm	0.0325 ppm
Concentration RSD	1.0 %	0.6 %	44.3 %	2.0 %	2.0 %	0.2 %	3.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0008 ppm	19.2961 ppm	0.0013 ppm	0.0361 ppm	0.5984 ppm	-0.0005 ppm	0.0591 ppm
Concentration per Run 1	0.0013 ppm	19.7158 ppm	0.0014 ppm	0.0363 ppm	0.6241 ppm	0.0001 ppm	0.0604 ppm
Concentration per Run 2	-0.0007 ppm	19.1647 ppm	0.0007 ppm	0.0363 ppm	0.5932 ppm	-0.0015 ppm	0.0587 ppm
Concentration per Run 3	0.0018 ppm	19.0078 ppm	0.0016 ppm	0.0359 ppm	0.5777 ppm	-0.0001 ppm	0.0583 ppm
Concentration RSD	160.0 %	1.9 %	37.5 %	0.7 %	3.9 %	172.3 %	1.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3271 ppm	98.2847 %	106.6103 %	96.1763 %	106.4811 %	117.8090 %	108.0552 %
Concentration per Run 1	0.3316 ppm	97.3122 %	105.7436 %	95.7833 %	105.9358 %	117.0034 %	107.9208 %
Concentration per Run 2	0.3255 ppm	98.4355 %	105.6969 %	95.9135 %	106.6314 %	116.9749 %	107.5226 %
Concentration per Run 3	0.3242 ppm	99.1062 %	108.3903 %	96.8320 %	106.8761 %	119.4486 %	108.7221 %
Concentration RSD	1.2 %	0.9 %	1.4 %	0.6 %	0.5 %	1.2 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-11D2 WG1975911
Analysis started at: 9/25/2024 1:50:09 PM
Rack 2
Vial 28
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0006 ppm	42.1213 ppm	0.0394 ppm	0.0073 ppm	0.2924 ppm	0.0019 ppm	9.4441 ppm
Concentration per Run 1	0.0006 ppm	42.0084 ppm	0.0391 ppm	0.0069 ppm	0.2920 ppm	0.0019 ppm	9.4259 ppm
Concentration per Run 2	0.0006 ppm	42.2385 ppm	0.0409 ppm	0.0072 ppm	0.2926 ppm	0.0019 ppm	9.4566 ppm
Concentration per Run 3	0.0006 ppm	42.1171 ppm	0.0381 ppm	0.0077 ppm	0.2926 ppm	0.0019 ppm	9.4497 ppm
Concentration RSD	2.4 %	0.3 %	3.5 %	5.7 %	0.1 %	0.8 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0069 ppm	0.0372 ppm	0.0783 ppm	0.1077 ppm	103.1233 ppm	2.9136 ppm	0.0996 ppm
Concentration per Run 1	0.0070 ppm	0.0377 ppm	0.0793 ppm	0.1091 ppm	102.5878 ppm	2.8908 ppm	0.0990 ppm
Concentration per Run 2	0.0069 ppm	0.0374 ppm	0.0778 ppm	0.1077 ppm	103.4620 ppm	2.9168 ppm	0.1004 ppm
Concentration per Run 3	0.0068 ppm	0.0366 ppm	0.0777 ppm	0.1064 ppm	103.3202 ppm	2.9331 ppm	0.0993 ppm
Concentration RSD	1.0 %	1.5 %	1.2 %	1.2 %	0.5 %	0.7 %	0.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.7846 ppm	2.2132 ppm	0.0039 ppm	0.1888 ppm	0.1035 ppm	15.2748 ppm	0.0637 ppm
Concentration per Run 1	17.0675 ppm	2.2151 ppm	0.0045 ppm	0.1876 ppm	0.1045 ppm	15.3114 ppm	0.0646 ppm
Concentration per Run 2	16.7116 ppm	2.2144 ppm	0.0039 ppm	0.1872 ppm	0.1033 ppm	15.2639 ppm	0.0643 ppm
Concentration per Run 3	16.5746 ppm	2.2100 ppm	0.0034 ppm	0.1917 ppm	0.1027 ppm	15.2492 ppm	0.0621 ppm
Concentration RSD	1.5 %	0.1 %	14.1 %	1.3 %	0.9 %	0.2 %	2.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	9.4528 ppm	0.0159 ppm	0.0418 ppm	0.3191 ppm	-0.0001 ppm	0.0702 ppm
Concentration per Run 1	0.0018 ppm	9.6378 ppm	0.0161 ppm	0.0419 ppm	0.3168 ppm	0.0012 ppm	0.0709 ppm
Concentration per Run 2	0.0019 ppm	9.2650 ppm	0.0153 ppm	0.0418 ppm	0.3238 ppm	-0.0010 ppm	0.0700 ppm
Concentration per Run 3	0.0011 ppm	9.4556 ppm	0.0164 ppm	0.0417 ppm	0.3167 ppm	-0.0004 ppm	0.0696 ppm
Concentration RSD	26.6 %	2.0 %	3.8 %	0.3 %	1.3 %	1,630.2 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5274 ppm	97.8889 %	107.8338 %	96.4077 %	104.2543 %	115.5692 %	106.2930 %
Concentration per Run 1	0.5376 ppm	96.0735 %	107.7798 %	96.5078 %	103.0003 %	115.6788 %	106.4234 %
Concentration per Run 2	0.5227 ppm	98.4628 %	107.8390 %	96.9542 %	104.7826 %	115.8649 %	107.1744 %
Concentration per Run 3	0.5219 ppm	99.1305 %	107.8825 %	95.7610 %	104.9800 %	115.1639 %	105.2811 %
Concentration RSD	1.7 %	1.6 %	0.0 %	0.6 %	1.0 %	0.3 %	0.9 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-04D2 WG1975911
Analysis started at: 9/25/2024 1:54:06 PM
Rack 2
Vial 11
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	40.6241 ppm	0.0412 ppm	0.0055 ppm	0.2281 ppm	0.0023 ppm	6.4786 ppm
Concentration per Run 1	-0.0002 ppm	40.6255 ppm	0.0426 ppm	0.0054 ppm	0.2284 ppm	0.0023 ppm	6.4684 ppm
Concentration per Run 2	-0.0002 ppm	40.6073 ppm	0.0406 ppm	0.0049 ppm	0.2284 ppm	0.0023 ppm	6.4728 ppm
Concentration per Run 3	0.0003 ppm	40.6395 ppm	0.0404 ppm	0.0063 ppm	0.2274 ppm	0.0023 ppm	6.4947 ppm
Concentration RSD	1,162.7 %	0.0 %	3.0 %	12.9 %	0.3 %	1.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0006 ppm	0.0419 ppm	0.0475 ppm	0.0786 ppm	100.1537 ppm	2.6268 ppm	0.0936 ppm
Concentration per Run 1	0.0006 ppm	0.0421 ppm	0.0479 ppm	0.0798 ppm	100.3880 ppm	2.6610 ppm	0.0954 ppm
Concentration per Run 2	0.0005 ppm	0.0419 ppm	0.0475 ppm	0.0783 ppm	100.3004 ppm	2.5943 ppm	0.0930 ppm
Concentration per Run 3	0.0006 ppm	0.0416 ppm	0.0472 ppm	0.0777 ppm	99.7726 ppm	2.6252 ppm	0.0925 ppm
Concentration RSD	11.8 %	0.7 %	0.8 %	1.4 %	0.3 %	1.3 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.8252 ppm	2.3952 ppm	0.0001 ppm	0.1289 ppm	0.0969 ppm	0.0834 ppm	0.0026 ppm
Concentration per Run 1	16.9851 ppm	2.3987 ppm	-0.0003 ppm	0.1294 ppm	0.0959 ppm	0.0844 ppm	0.0021 ppm
Concentration per Run 2	16.7386 ppm	2.3928 ppm	0.0004 ppm	0.1290 ppm	0.0978 ppm	0.0826 ppm	0.0033 ppm
Concentration per Run 3	16.7518 ppm	2.3942 ppm	0.0002 ppm	0.1282 ppm	0.0971 ppm	0.0832 ppm	0.0024 ppm
Concentration RSD	0.8 %	0.1 %	345.2 %	0.5 %	1.0 %	1.1 %	23.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0001 ppm	5.7173 ppm	0.0001 ppm	0.0350 ppm	0.3989 ppm	0.0004 ppm	0.0532 ppm
Concentration per Run 1	0.0002 ppm	5.7299 ppm	-0.0005 ppm	0.0350 ppm	0.4157 ppm	-0.0003 ppm	0.0532 ppm
Concentration per Run 2	0.0005 ppm	5.6538 ppm	0.0013 ppm	0.0350 ppm	0.3911 ppm	0.0010 ppm	0.0533 ppm
Concentration per Run 3	-0.0011 ppm	5.7682 ppm	-0.0006 ppm	0.0350 ppm	0.3898 ppm	0.0005 ppm	0.0531 ppm
Concentration RSD	685.2 %	1.0 %	1,540.5 %	0.0 %	3.7 %	172.1 %	0.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2676 ppm	97.4406 %	105.4573 %	96.1684 %	106.7139 %	117.7345 %	109.4155 %
Concentration per Run 1	0.2698 ppm	97.1491 %	105.2388 %	96.3349 %	107.4934 %	117.1855 %	110.0008 %
Concentration per Run 2	0.2653 ppm	97.4599 %	105.5734 %	96.3918 %	106.3201 %	117.7919 %	109.1535 %
Concentration per Run 3	0.2678 ppm	97.7128 %	105.5595 %	95.7785 %	106.3282 %	118.2260 %	109.0921 %
Concentration RSD	0.8 %	0.3 %	0.2 %	0.4 %	0.6 %	0.4 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-7D2 WG1975911
Analysis started at: 9/25/2024 1:58:05 PM
Rack 2
Vial 12
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0526 ppm	44.3142 ppm	0.1704 ppm	0.9964 ppm	2.2911 ppm	0.0569 ppm	17.1709 ppm
Concentration per Run 1	0.0528 ppm	44.4594 ppm	0.1690 ppm	0.9955 ppm	2.3028 ppm	0.0572 ppm	17.1978 ppm
Concentration per Run 2	0.0525 ppm	44.3623 ppm	0.1687 ppm	0.9924 ppm	2.2914 ppm	0.0569 ppm	17.1753 ppm
Concentration per Run 3	0.0523 ppm	44.1208 ppm	0.1735 ppm	1.0014 ppm	2.2790 ppm	0.0566 ppm	17.1397 ppm
Concentration RSD	0.5 %	0.4 %	1.6 %	0.5 %	0.5 %	0.5 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0541 ppm	0.5600 ppm	0.2586 ppm	0.3535 ppm	103.4996 ppm	12.2874 ppm	0.0963 ppm
Concentration per Run 1	0.0542 ppm	0.5632 ppm	0.2597 ppm	0.3548 ppm	103.9948 ppm	12.4340 ppm	0.0978 ppm
Concentration per Run 2	0.0540 ppm	0.5586 ppm	0.2568 ppm	0.3536 ppm	103.5402 ppm	12.2516 ppm	0.0979 ppm
Concentration per Run 3	0.0541 ppm	0.5583 ppm	0.2592 ppm	0.3521 ppm	102.9636 ppm	12.1765 ppm	0.0933 ppm
Concentration RSD	0.2 %	0.5 %	0.6 %	0.4 %	0.5 %	1.1 %	2.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	27.3913 ppm	2.9362 ppm	1.0177 ppm	10.2857 ppm	0.6203 ppm	0.6538 ppm	0.5086 ppm
Concentration per Run 1	27.5191 ppm	2.9377 ppm	1.0108 ppm	10.3040 ppm	0.6232 ppm	0.6521 ppm	0.5052 ppm
Concentration per Run 2	27.3626 ppm	2.9314 ppm	1.0152 ppm	10.2960 ppm	0.6161 ppm	0.6525 ppm	0.5081 ppm
Concentration per Run 3	27.2922 ppm	2.9394 ppm	1.0272 ppm	10.2572 ppm	0.6216 ppm	0.6568 ppm	0.5126 ppm
Concentration RSD	0.4 %	0.1 %	0.8 %	0.2 %	0.6 %	0.4 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1225 ppm	8.4917 ppm	0.9839 ppm	1.0546 ppm	1.4725 ppm	0.1272 ppm	0.5876 ppm
Concentration per Run 1	0.1228 ppm	8.6300 ppm	0.9907 ppm	1.0600 ppm	1.4863 ppm	0.1253 ppm	0.5928 ppm
Concentration per Run 2	0.1230 ppm	8.4560 ppm	0.9720 ppm	1.0568 ppm	1.4587 ppm	0.1271 ppm	0.5833 ppm
Concentration per Run 3	0.1217 ppm	8.3891 ppm	0.9891 ppm	1.0471 ppm	1.4727 ppm	0.1293 ppm	0.5866 ppm
Concentration RSD	0.6 %	1.5 %	1.1 %	0.6 %	0.9 %	1.6 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8009 ppm	98.5846 %	104.8120 %	93.5072 %	108.3480 %	117.9616 %	109.2429 %
Concentration per Run 1	0.8010 ppm	98.6885 %	105.1092 %	93.8193 %	108.7530 %	118.3506 %	109.8706 %
Concentration per Run 2	0.8005 ppm	98.8006 %	104.3282 %	93.3418 %	108.7667 %	117.2981 %	109.2105 %
Concentration per Run 3	0.8014 ppm	98.2647 %	104.9985 %	93.3605 %	107.5241 %	118.2360 %	108.6476 %
Concentration RSD	0.1 %	0.3 %	0.4 %	0.3 %	0.7 %	0.5 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-8D2 WG1975911
Analysis started at: 9/25/2024 2:02:04 PM
Rack 2
Vial 13
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0543 ppm	46.3638 ppm	0.1674 ppm	1.0247 ppm	2.3471 ppm	0.0575 ppm	17.2194 ppm
Concentration per Run 1	0.0549 ppm	46.5242 ppm	0.1685 ppm	1.0356 ppm	2.3436 ppm	0.0581 ppm	17.3686 ppm
Concentration per Run 2	0.0546 ppm	46.3309 ppm	0.1667 ppm	1.0218 ppm	2.3471 ppm	0.0578 ppm	17.2393 ppm
Concentration per Run 3	0.0535 ppm	46.2364 ppm	0.1669 ppm	1.0167 ppm	2.3506 ppm	0.0567 ppm	17.0503 ppm
Concentration RSD	1.3 %	0.3 %	0.6 %	1.0 %	0.1 %	1.3 %	0.9 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0555 ppm	0.5758 ppm	0.2671 ppm	0.3631 ppm	107.5492 ppm	12.4969 ppm	0.1000 ppm
Concentration per Run 1	0.0562 ppm	0.5799 ppm	0.2683 ppm	0.3659 ppm	108.1241 ppm	12.6138 ppm	0.1024 ppm
Concentration per Run 2	0.0554 ppm	0.5753 ppm	0.2686 ppm	0.3624 ppm	107.4576 ppm	12.4595 ppm	0.0996 ppm
Concentration per Run 3	0.0550 ppm	0.5721 ppm	0.2643 ppm	0.3609 ppm	107.0659 ppm	12.4174 ppm	0.0980 ppm
Concentration RSD	1.1 %	0.7 %	0.9 %	0.7 %	0.5 %	0.8 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	28.6827 ppm	3.0530 ppm	1.0510 ppm	10.5048 ppm	0.6409 ppm	0.6601 ppm	0.5267 ppm
Concentration per Run 1	28.8533 ppm	3.0708 ppm	1.0554 ppm	10.5134 ppm	0.6458 ppm	0.6623 ppm	0.5420 ppm
Concentration per Run 2	28.6397 ppm	3.0483 ppm	1.0489 ppm	10.4951 ppm	0.6406 ppm	0.6602 ppm	0.5210 ppm
Concentration per Run 3	28.5550 ppm	3.0400 ppm	1.0488 ppm	10.5061 ppm	0.6363 ppm	0.6579 ppm	0.5172 ppm
Concentration RSD	0.5 %	0.5 %	0.4 %	0.1 %	0.7 %	0.3 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1270 ppm	8.3588 ppm	1.0127 ppm	1.0664 ppm	1.5216 ppm	0.1300 ppm	0.6035 ppm
Concentration per Run 1	0.1270 ppm	8.4750 ppm	1.0214 ppm	1.0712 ppm	1.5436 ppm	0.1297 ppm	0.6075 ppm
Concentration per Run 2	0.1267 ppm	8.4481 ppm	1.0111 ppm	1.0717 ppm	1.5097 ppm	0.1312 ppm	0.6006 ppm
Concentration per Run 3	0.1271 ppm	8.1532 ppm	1.0057 ppm	1.0562 ppm	1.5116 ppm	0.1290 ppm	0.6022 ppm
Concentration RSD	0.1 %	2.1 %	0.8 %	0.8 %	1.3 %	0.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8287 ppm	97.3254 %	104.3053 %	92.8593 %	107.1152 %	117.1299 %	108.2431 %
Concentration per Run 1	0.8356 ppm	96.8371 %	103.0150 %	92.9503 %	106.5071 %	116.2820 %	108.0140 %
Concentration per Run 2	0.8305 ppm	97.6279 %	104.6208 %	92.5535 %	106.9767 %	117.7858 %	108.2571 %
Concentration per Run 3	0.8200 ppm	97.5111 %	105.2801 %	93.0742 %	107.8618 %	117.3221 %	108.4582 %
Concentration RSD	1.0 %	0.4 %	1.1 %	0.3 %	0.6 %	0.7 %	0.2 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-9D2 WG1975911
Analysis started at: 9/25/2024 2:06:01 PM
Rack 2
Vial 14
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0494 ppm	40.0648 ppm	0.1566 ppm	0.9560 ppm	2.1453 ppm	0.0530 ppm	15.9532 ppm
Concentration per Run 1	0.0495 ppm	39.9213 ppm	0.1579 ppm	0.9682 ppm	2.1398 ppm	0.0534 ppm	16.0044 ppm
Concentration per Run 2	0.0497 ppm	39.9740 ppm	0.1555 ppm	0.9530 ppm	2.1509 ppm	0.0528 ppm	15.8854 ppm
Concentration per Run 3	0.0490 ppm	40.2991 ppm	0.1563 ppm	0.9468 ppm	2.1453 ppm	0.0529 ppm	15.9699 ppm
Concentration RSD	0.7 %	0.5 %	0.8 %	1.2 %	0.3 %	0.6 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0509 ppm	0.5178 ppm	0.2375 ppm	0.3238 ppm	95.7642 ppm	12.2863 ppm	0.0895 ppm
Concentration per Run 1	0.0516 ppm	0.5217 ppm	0.2389 ppm	0.3260 ppm	95.5296 ppm	12.3306 ppm	0.0911 ppm
Concentration per Run 2	0.0511 ppm	0.5163 ppm	0.2386 ppm	0.3233 ppm	95.8967 ppm	12.2633 ppm	0.0892 ppm
Concentration per Run 3	0.0502 ppm	0.5154 ppm	0.2350 ppm	0.3221 ppm	95.8661 ppm	12.2651 ppm	0.0882 ppm
Concentration RSD	1.4 %	0.7 %	0.9 %	0.6 %	0.2 %	0.3 %	1.6 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.5762 ppm	2.7456 ppm	0.9472 ppm	9.7804 ppm	0.5736 ppm	0.6111 ppm	0.4285 ppm
Concentration per Run 1	25.7050 ppm	2.7463 ppm	0.9506 ppm	9.7605 ppm	0.5756 ppm	0.6106 ppm	0.4296 ppm
Concentration per Run 2	25.6165 ppm	2.7383 ppm	0.9454 ppm	9.7589 ppm	0.5770 ppm	0.6098 ppm	0.4289 ppm
Concentration per Run 3	25.4072 ppm	2.7522 ppm	0.9454 ppm	9.8218 ppm	0.5682 ppm	0.6128 ppm	0.4268 ppm
Concentration RSD	0.6 %	0.3 %	0.3 %	0.4 %	0.8 %	0.3 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1199 ppm	5.4549 ppm	0.9421 ppm	1.0063 ppm	1.3596 ppm	0.1229 ppm	0.5419 ppm
Concentration per Run 1	0.1185 ppm	5.5308 ppm	0.9447 ppm	1.0114 ppm	1.3623 ppm	0.1221 ppm	0.5441 ppm
Concentration per Run 2	0.1213 ppm	5.4407 ppm	0.9455 ppm	1.0042 ppm	1.3716 ppm	0.1222 ppm	0.5419 ppm
Concentration per Run 3	0.1201 ppm	5.3932 ppm	0.9360 ppm	1.0035 ppm	1.3448 ppm	0.1243 ppm	0.5396 ppm
Concentration RSD	1.2 %	1.3 %	0.6 %	0.4 %	1.0 %	1.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7353 ppm	97.5379 %	103.2926 %	93.7116 %	106.1117 %	115.0418 %	107.0858 %
Concentration per Run 1	0.7400 ppm	96.9288 %	102.9315 %	93.6426 %	106.3663 %	115.3865 %	107.2324 %
Concentration per Run 2	0.7388 ppm	97.4013 %	104.8469 %	93.3686 %	105.9941 %	116.0830 %	106.3342 %
Concentration per Run 3	0.7272 ppm	98.2836 %	102.0994 %	94.1235 %	105.9747 %	113.6560 %	107.6909 %
Concentration RSD	1.0 %	0.7 %	1.4 %	0.4 %	0.2 %	1.1 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-10D10 WG1975911
Analysis started at: 9/25/2024 2:09:58 PM
Rack 2
Vial 15
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	8.2423 ppm	0.0072 ppm	0.0029 ppm	0.0460 ppm	0.0004 ppm	1.2832 ppm
Concentration per Run 1	-0.0003 ppm	8.2455 ppm	0.0069 ppm	0.0031 ppm	0.0460 ppm	0.0004 ppm	1.2857 ppm
Concentration per Run 2	0.0000 ppm	8.2651 ppm	0.0085 ppm	0.0034 ppm	0.0463 ppm	0.0004 ppm	1.2849 ppm
Concentration per Run 3	-0.0004 ppm	8.2163 ppm	0.0063 ppm	0.0023 ppm	0.0456 ppm	0.0004 ppm	1.2790 ppm
Concentration RSD	78.6 %	0.3 %	16.2 %	19.4 %	0.8 %	6.7 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0087 ppm	0.0097 ppm	0.0163 ppm	20.7512 ppm	0.5293 ppm	0.0209 ppm
Concentration per Run 1	0.0001 ppm	0.0087 ppm	0.0100 ppm	0.0165 ppm	20.8182 ppm	0.5361 ppm	0.0219 ppm
Concentration per Run 2	0.0002 ppm	0.0090 ppm	0.0094 ppm	0.0161 ppm	20.7751 ppm	0.5427 ppm	0.0215 ppm
Concentration per Run 3	0.0001 ppm	0.0085 ppm	0.0096 ppm	0.0164 ppm	20.6604 ppm	0.5089 ppm	0.0194 ppm
Concentration RSD	29.7 %	3.2 %	3.0 %	1.1 %	0.4 %	3.4 %	6.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.4374 ppm	0.4862 ppm	0.0034 ppm	0.0162 ppm	0.0199 ppm	0.0163 ppm	0.0054 ppm
Concentration per Run 1	3.4959 ppm	0.4886 ppm	0.0034 ppm	0.0165 ppm	0.0203 ppm	0.0160 ppm	0.0048 ppm
Concentration per Run 2	3.4248 ppm	0.4854 ppm	0.0033 ppm	0.0174 ppm	0.0197 ppm	0.0168 ppm	0.0066 ppm
Concentration per Run 3	3.3914 ppm	0.4847 ppm	0.0034 ppm	0.0148 ppm	0.0197 ppm	0.0161 ppm	0.0047 ppm
Concentration RSD	1.6 %	0.4 %	1.1 %	8.3 %	1.8 %	2.8 %	20.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	1.2526 ppm	0.0007 ppm	0.0071 ppm	0.0790 ppm	-0.0007 ppm	0.0110 ppm
Concentration per Run 1	-0.0012 ppm	1.3157 ppm	0.0009 ppm	0.0070 ppm	0.0803 ppm	-0.0012 ppm	0.0111 ppm
Concentration per Run 2	-0.0003 ppm	1.2050 ppm	0.0006 ppm	0.0071 ppm	0.0760 ppm	-0.0005 ppm	0.0109 ppm
Concentration per Run 3	0.0010 ppm	1.2371 ppm	0.0007 ppm	0.0071 ppm	0.0807 ppm	-0.0006 ppm	0.0109 ppm
Concentration RSD	677.4 %	4.5 %	21.2 %	0.7 %	3.3 %	49.0 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0551 ppm	97.0823 %	104.6140 %	97.9668 %	97.8370 %	106.6278 %	99.9660 %
Concentration per Run 1	0.0563 ppm	95.6052 %	103.8939 %	98.2965 %	96.8261 %	106.7711 %	100.4187 %
Concentration per Run 2	0.0548 ppm	97.5091 %	104.3938 %	98.2111 %	98.2662 %	105.5547 %	100.0100 %
Concentration per Run 3	0.0541 ppm	98.1325 %	105.5543 %	97.3928 %	98.4188 %	107.5576 %	99.4694 %
Concentration RSD	2.1 %	1.4 %	0.8 %	0.5 %	0.9 %	0.9 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 2:13:56 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5006 ppm	0.4765 ppm	0.4728 ppm	0.4912 ppm	0.5017 ppm	0.5161 ppm	0.4927 ppm
Concentration per Run 1	0.5041 ppm	0.4840 ppm	0.4727 ppm	0.4966 ppm	0.5006 ppm	0.5123 ppm	0.4950 ppm
Concentration per Run 2	0.5002 ppm	0.4678 ppm	0.4692 ppm	0.4910 ppm	0.5019 ppm	0.5174 ppm	0.4935 ppm
Concentration per Run 3	0.4975 ppm	0.4776 ppm	0.4767 ppm	0.4862 ppm	0.5025 ppm	0.5186 ppm	0.4897 ppm
Recovery Percentage 1	100.120 %	95.298 %	94.569 %	98.247 %	100.331 %	103.214 %	98.543 %
Concentration RSD	0.7 %	1.7 %	0.8 %	1.1 %	0.2 %	0.6 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5059 ppm	0.5080 ppm	0.5010 ppm	0.4881 ppm	0.5105 ppm	5.0971 ppm	0.4751 ppm
Concentration per Run 1	0.5126 ppm	0.5142 ppm	0.5052 ppm	0.4936 ppm	0.5098 ppm	5.1718 ppm	0.4806 ppm
Concentration per Run 2	0.5054 ppm	0.5075 ppm	0.5011 ppm	0.4868 ppm	0.5089 ppm	5.0682 ppm	0.4715 ppm
Concentration per Run 3	0.4997 ppm	0.5023 ppm	0.4966 ppm	0.4839 ppm	0.5128 ppm	5.0513 ppm	0.4732 ppm
Recovery Percentage 1	101.184 %	101.603 %	100.197 %	97.621 %	102.101 %	101.942 %	95.024 %
Concentration RSD	1.3 %	1.2 %	0.9 %	1.0 %	0.4 %	1.3 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4947 ppm	0.4986 ppm	0.4967 ppm	9.9392 ppm	0.5075 ppm	0.4971 ppm	0.4947 ppm
Concentration per Run 1	0.4997 ppm	0.4979 ppm	0.4984 ppm	9.9898 ppm	0.5116 ppm	0.4971 ppm	0.4985 ppm
Concentration per Run 2	0.4943 ppm	0.4982 ppm	0.4959 ppm	9.9046 ppm	0.5086 ppm	0.4952 ppm	0.4958 ppm
Concentration per Run 3	0.4902 ppm	0.4996 ppm	0.4958 ppm	9.9234 ppm	0.5023 ppm	0.4990 ppm	0.4899 ppm
Recovery Percentage 1	98.946 %	99.713 %	99.339 %	99.392 %	101.500 %	99.422 %	98.948 %
Concentration RSD	1.0 %	0.2 %	0.3 %	0.5 %	0.9 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4902 ppm	5.5404 ppm	0.4859 ppm	0.4860 ppm	0.5037 ppm	0.4886 ppm	0.5039 ppm
Concentration per Run 1	0.4918 ppm	5.5909 ppm	0.4903 ppm	0.4830 ppm	0.5069 ppm	0.4885 ppm	0.5065 ppm
Concentration per Run 2	0.4866 ppm	5.5373 ppm	0.4846 ppm	0.4875 ppm	0.5054 ppm	0.4834 ppm	0.5044 ppm
Concentration per Run 3	0.4922 ppm	5.4931 ppm	0.4827 ppm	0.4874 ppm	0.4988 ppm	0.4939 ppm	0.5007 ppm
Recovery Percentage 1	98.044 %	105.532 %	97.177 %	97.193 %	100.743 %	97.717 %	100.776 %
Concentration RSD	0.6 %	0.9 %	0.8 %	0.5 %	0.9 %	1.1 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5019 ppm	97.6786 %	104.1159 %	98.0422 %	95.0620 %	102.5522 %	96.8490 %
Concentration per Run 1	0.5108 ppm	96.6565 %	105.3835 %	98.1903 %	94.7465 %	103.5775 %	97.1288 %
Concentration per Run 2	0.5011 ppm	97.5643 %	102.6617 %	98.1312 %	94.8305 %	101.1969 %	96.6989 %
Concentration per Run 3	0.4939 ppm	98.8150 %	104.3025 %	97.8053 %	95.6089 %	102.8822 %	96.7192 %
Recovery Percentage 1	100.383 %						
Concentration RSD	1.7 %	1.1 %	1.3 %	0.2 %	0.5 %	1.2 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 2:17:54 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	-0.0079 ppm	0.0011 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 1	-0.0001 ppm	-0.0104 ppm	0.0018 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 2	-0.0001 ppm	-0.0093 ppm	0.0014 ppm	0.0011 ppm	-0.0002 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 3	-0.0007 ppm	-0.0040 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0019 ppm
Recovery Percentage 1	-4.184 %	-7.931 %	35.885 %	2.434 %	-1.657 %	0.529 %	2.212 %
Concentration RSD	120.8 %	43.3 %	85.1 %	42.6 %	43.1 %	41.6 %	31.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0008 ppm	0.0049 ppm	-0.0270 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0009 ppm	0.0036 ppm	-0.0204 ppm	0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0070 ppm	-0.0234 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0041 ppm	-0.0373 ppm	-0.0022 ppm
Recovery Percentage 1	-0.248 %	1.451 %	0.227 %	8.094 %	9.784 %	-1.081 %	-2.393 %
Concentration RSD	144.1 %	54.6 %	854.6 %	29.8 %	37.6 %	33.3 %	724.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0000 ppm	0.0023 ppm	-0.0147 ppm	0.0002 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0016 ppm	0.0001 ppm	0.0021 ppm	-0.0141 ppm	0.0000 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 2	-0.0005 ppm	-0.0001 ppm	0.0023 ppm	-0.0168 ppm	0.0005 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0025 ppm	-0.0131 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm
Recovery Percentage 1	-0.662 %	-0.352 %	4.552 %	-0.734 %	0.672 %	-1.808 %	0.030 %
Concentration RSD	129.0 %	233.3 %	8.4 %	12.8 %	159.7 %	289.2 %	4,975.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	0.0072 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 1	0.0026 ppm	0.0065 ppm	-0.0006 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0090 ppm	-0.0009 ppm	0.0001 ppm	-0.0001 ppm	-0.0013 ppm	0.0002 ppm
Concentration per Run 3	0.0023 ppm	0.0059 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	0.0004 ppm
Recovery Percentage 1	16.144 %	1.432 %	-1.384 %	1.367 %	-1.420 %	-2.640 %	2.386 %
Concentration RSD	86.9 %	23.2 %	24.6 %	22.3 %	82.9 %	142.0 %	41.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	94.0279 %	103.8808 %	97.2897 %	95.3605 %	104.2533 %	97.9492 %
Concentration per Run 1	0.0008 ppm	92.6211 %	104.2978 %	96.9495 %	95.1161 %	104.4306 %	98.1036 %
Concentration per Run 2	0.0008 ppm	94.4521 %	103.9170 %	97.4287 %	95.5495 %	104.3470 %	98.1698 %
Concentration per Run 3	0.0007 ppm	95.0104 %	103.4275 %	97.4908 %	95.4158 %	103.9825 %	97.5741 %
Recovery Percentage 1	15.120 %						
Concentration RSD	2.6 %	1.3 %	0.4 %	0.3 %	0.2 %	0.2 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-12D2 WG1975911
Analysis started at: 9/25/2024 2:25:08 PM
Rack 2
Vial 29
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	47.3984 ppm	0.0499 ppm	0.0084 ppm	0.2732 ppm	0.0024 ppm	13.5982 ppm
Concentration per Run 1	0.0003 ppm	47.4256 ppm	0.0488 ppm	0.0087 ppm	0.2742 ppm	0.0024 ppm	13.6099 ppm
Concentration per Run 2	0.0003 ppm	47.5170 ppm	0.0509 ppm	0.0073 ppm	0.2737 ppm	0.0025 ppm	13.6287 ppm
Concentration per Run 3	0.0003 ppm	47.2524 ppm	0.0500 ppm	0.0092 ppm	0.2718 ppm	0.0024 ppm	13.5560 ppm
Concentration RSD	11.0 %	0.3 %	2.1 %	11.7 %	0.5 %	0.8 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0453 ppm	0.0600 ppm	0.0949 ppm	113.6425 ppm	3.7424 ppm	0.1100 ppm
Concentration per Run 1	0.0029 ppm	0.0459 ppm	0.0608 ppm	0.0953 ppm	113.8096 ppm	3.7706 ppm	0.1116 ppm
Concentration per Run 2	0.0030 ppm	0.0455 ppm	0.0597 ppm	0.0949 ppm	113.9735 ppm	3.7412 ppm	0.1098 ppm
Concentration per Run 3	0.0030 ppm	0.0444 ppm	0.0594 ppm	0.0944 ppm	113.1443 ppm	3.7153 ppm	0.1087 ppm
Concentration RSD	2.4 %	1.7 %	1.2 %	0.4 %	0.4 %	0.7 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	19.2807 ppm	2.6483 ppm	0.0012 ppm	0.1653 ppm	0.1016 ppm	10.1049 ppm	0.1983 ppm
Concentration per Run 1	19.4877 ppm	2.6489 ppm	0.0014 ppm	0.1640 ppm	0.1035 ppm	10.0798 ppm	0.2027 ppm
Concentration per Run 2	19.2216 ppm	2.6556 ppm	0.0013 ppm	0.1722 ppm	0.1012 ppm	10.1500 ppm	0.1992 ppm
Concentration per Run 3	19.1327 ppm	2.6405 ppm	0.0010 ppm	0.1596 ppm	0.1001 ppm	10.0847 ppm	0.1930 ppm
Concentration RSD	1.0 %	0.3 %	16.9 %	3.9 %	1.7 %	0.4 %	2.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0020 ppm	10.3182 ppm	0.0320 ppm	0.0659 ppm	0.4911 ppm	0.0004 ppm	0.0780 ppm
Concentration per Run 1	-0.0004 ppm	10.4626 ppm	0.0319 ppm	0.0659 ppm	0.4859 ppm	-0.0004 ppm	0.0787 ppm
Concentration per Run 2	0.0040 ppm	10.3310 ppm	0.0335 ppm	0.0662 ppm	0.5015 ppm	0.0013 ppm	0.0776 ppm
Concentration per Run 3	0.0025 ppm	10.1609 ppm	0.0304 ppm	0.0657 ppm	0.4859 ppm	0.0005 ppm	0.0778 ppm
Concentration RSD	109.5 %	1.5 %	5.0 %	0.4 %	1.8 %	194.2 %	0.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3308 ppm	98.6801 %	107.3971 %	95.8087 %	108.6442 %	121.0238 %	110.2839 %
Concentration per Run 1	0.3366 ppm	97.2541 %	107.5918 %	95.8168 %	107.0921 %	121.1255 %	110.3734 %
Concentration per Run 2	0.3294 ppm	99.3607 %	106.6408 %	95.7319 %	109.6968 %	120.3028 %	110.3528 %
Concentration per Run 3	0.3265 ppm	99.4255 %	107.9586 %	95.8775 %	109.1437 %	121.6430 %	110.1255 %
Concentration RSD	1.6 %	1.3 %	0.6 %	0.1 %	1.3 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-13D2 WG1975911
Analysis started at: 9/25/2024 2:29:11 PM
Rack 2
Vial 30
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	56.1660 ppm	0.0698 ppm	0.0074 ppm	0.1825 ppm	0.0028 ppm	7.4155 ppm
Concentration per Run 1	0.0001 ppm	56.3344 ppm	0.0711 ppm	0.0061 ppm	0.1836 ppm	0.0027 ppm	7.3889 ppm
Concentration per Run 2	0.0000 ppm	56.0084 ppm	0.0698 ppm	0.0079 ppm	0.1822 ppm	0.0027 ppm	7.4153 ppm
Concentration per Run 3	0.0001 ppm	56.1552 ppm	0.0685 ppm	0.0082 ppm	0.1817 ppm	0.0028 ppm	7.4423 ppm
Concentration RSD	153.0 %	0.3 %	1.9 %	15.5 %	0.5 %	1.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0020 ppm	0.0424 ppm	0.0698 ppm	0.1337 ppm	145.9430 ppm	2.8823 ppm	0.1242 ppm
Concentration per Run 1	0.0021 ppm	0.0431 ppm	0.0707 ppm	0.1350 ppm	146.6342 ppm	2.9101 ppm	0.1259 ppm
Concentration per Run 2	0.0021 ppm	0.0419 ppm	0.0695 ppm	0.1331 ppm	145.3785 ppm	2.8671 ppm	0.1235 ppm
Concentration per Run 3	0.0019 ppm	0.0421 ppm	0.0692 ppm	0.1331 ppm	145.8164 ppm	2.8697 ppm	0.1231 ppm
Concentration RSD	4.7 %	1.5 %	1.1 %	0.8 %	0.4 %	0.8 %	1.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	21.8886 ppm	2.2117 ppm	0.0016 ppm	0.1307 ppm	0.1101 ppm	0.2362 ppm	0.0104 ppm
Concentration per Run 1	22.0469 ppm	2.2006 ppm	0.0016 ppm	0.1281 ppm	0.1107 ppm	0.2375 ppm	0.0111 ppm
Concentration per Run 2	21.9043 ppm	2.2166 ppm	0.0017 ppm	0.1308 ppm	0.1100 ppm	0.2352 ppm	0.0110 ppm
Concentration per Run 3	21.7147 ppm	2.2179 ppm	0.0016 ppm	0.1333 ppm	0.1096 ppm	0.2360 ppm	0.0092 ppm
Concentration RSD	0.8 %	0.4 %	3.2 %	2.0 %	0.5 %	0.5 %	10.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	8.5003 ppm	0.0061 ppm	0.0416 ppm	0.4330 ppm	0.0013 ppm	0.0835 ppm
Concentration per Run 1	0.0014 ppm	8.7119 ppm	0.0054 ppm	0.0412 ppm	0.4246 ppm	0.0005 ppm	0.0840 ppm
Concentration per Run 2	0.0013 ppm	8.3924 ppm	0.0062 ppm	0.0419 ppm	0.4293 ppm	0.0018 ppm	0.0836 ppm
Concentration per Run 3	0.0014 ppm	8.3966 ppm	0.0067 ppm	0.0418 ppm	0.4453 ppm	0.0016 ppm	0.0828 ppm
Concentration RSD	3.4 %	2.2 %	10.8 %	0.8 %	2.5 %	53.6 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4043 ppm	97.9353 %	107.5352 %	95.4126 %	105.3252 %	117.9946 %	108.2463 %
Concentration per Run 1	0.4074 ppm	97.8280 %	108.0148 %	95.4614 %	106.0429 %	118.0177 %	108.3075 %
Concentration per Run 2	0.4048 ppm	97.7645 %	107.3812 %	95.7772 %	105.1785 %	117.5167 %	108.6247 %
Concentration per Run 3	0.4006 ppm	98.2133 %	107.2097 %	94.9990 %	104.7541 %	118.4495 %	107.8067 %
Concentration RSD	0.8 %	0.2 %	0.4 %	0.4 %	0.6 %	0.4 %	0.4 %

iCAP Pro Trace 8 Data report

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LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-14D2 WG1975911
Analysis started at: 9/25/2024 2:33:09 PM
Rack 2
Vial 31
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0001 ppm	40.0144 ppm	0.0402 ppm	0.0127 ppm	0.2404 ppm	0.0022 ppm	15.8318 ppm
Concentration per Run 1	0.0002 ppm	39.8537 ppm	0.0395 ppm	0.0121 ppm	0.2415 ppm	0.0022 ppm	15.8430 ppm
Concentration per Run 2	0.0000 ppm	40.0479 ppm	0.0407 ppm	0.0131 ppm	0.2389 ppm	0.0021 ppm	15.9005 ppm
Concentration per Run 3	-0.0004 ppm	40.1417 ppm	0.0403 ppm	0.0129 ppm	0.2406 ppm	0.0022 ppm	15.7519 ppm
Concentration RSD	482.0 %	0.4 %	1.5 %	4.2 %	0.5 %	2.2 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0012 ppm	0.0411 ppm	0.0497 ppm	0.0778 ppm	95.7457 ppm	3.3843 ppm	0.0938 ppm
Concentration per Run 1	0.0012 ppm	0.0418 ppm	0.0506 ppm	0.0785 ppm	96.2144 ppm	3.4148 ppm	0.0967 ppm
Concentration per Run 2	0.0013 ppm	0.0409 ppm	0.0494 ppm	0.0779 ppm	95.4435 ppm	3.3516 ppm	0.0913 ppm
Concentration per Run 3	0.0012 ppm	0.0408 ppm	0.0492 ppm	0.0772 ppm	95.5793 ppm	3.3866 ppm	0.0935 ppm
Concentration RSD	3.4 %	1.3 %	1.5 %	0.8 %	0.4 %	0.9 %	2.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	31.9530 ppm	2.3879 ppm	0.0007 ppm	0.1740 ppm	0.0898 ppm	1.6852 ppm	0.0117 ppm
Concentration per Run 1	32.4642 ppm	2.3775 ppm	0.0004 ppm	0.1789 ppm	0.0912 ppm	1.6935 ppm	0.0116 ppm
Concentration per Run 2	31.7823 ppm	2.3938 ppm	0.0008 ppm	0.1755 ppm	0.0901 ppm	1.6821 ppm	0.0129 ppm
Concentration per Run 3	31.6124 ppm	2.3925 ppm	0.0008 ppm	0.1675 ppm	0.0880 ppm	1.6800 ppm	0.0105 ppm
Concentration RSD	1.4 %	0.4 %	35.6 %	3.4 %	1.8 %	0.4 %	10.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	9.5845 ppm	0.0016 ppm	0.0741 ppm	0.4974 ppm	0.0017 ppm	0.0611 ppm
Concentration per Run 1	0.0005 ppm	9.8344 ppm	0.0016 ppm	0.0747 ppm	0.5222 ppm	0.0033 ppm	0.0619 ppm
Concentration per Run 2	0.0003 ppm	9.6540 ppm	0.0014 ppm	0.0744 ppm	0.4979 ppm	0.0019 ppm	0.0608 ppm
Concentration per Run 3	0.0033 ppm	9.2651 ppm	0.0017 ppm	0.0733 ppm	0.4723 ppm	0.0001 ppm	0.0605 ppm
Concentration RSD	124.5 %	3.0 %	10.9 %	1.0 %	5.0 %	92.6 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3583 ppm	97.3017 %	104.4891 %	95.0690 %	105.1309 %	115.7573 %	106.8240 %
Concentration per Run 1	0.3658 ppm	96.5824 %	104.6510 %	94.5609 %	105.1296 %	116.5458 %	106.4269 %
Concentration per Run 2	0.3551 ppm	97.6494 %	103.5442 %	95.0697 %	105.6661 %	114.3806 %	106.7390 %
Concentration per Run 3	0.3540 ppm	97.6733 %	105.2720 %	95.5764 %	104.5969 %	116.3454 %	107.3062 %
Concentration RSD	1.8 %	0.6 %	0.8 %	0.5 %	0.5 %	1.0 %	0.4 %

iCAP Pro Trace 8 Data report

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LabBook: WG1975913_09252024T8.imexp

Sample: L2454997-06D2 WG1975911
Analysis started at: 9/25/2024 2:37:06 PM
Rack 2
Vial 16
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0003 ppm	40.0134 ppm	0.0353 ppm	0.0064 ppm	0.2063 ppm	0.0022 ppm	4.8392 ppm
Concentration per Run 1	-0.0004 ppm	40.0088 ppm	0.0362 ppm	0.0054 ppm	0.2066 ppm	0.0022 ppm	4.8456 ppm
Concentration per Run 2	-0.0005 ppm	39.9344 ppm	0.0348 ppm	0.0073 ppm	0.2062 ppm	0.0022 ppm	4.8220 ppm
Concentration per Run 3	0.0001 ppm	40.0969 ppm	0.0348 ppm	0.0065 ppm	0.2062 ppm	0.0022 ppm	4.8499 ppm
Concentration RSD	124.9 %	0.2 %	2.3 %	14.6 %	0.1 %	1.0 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0007 ppm	0.0406 ppm	0.0475 ppm	0.0706 ppm	92.9973 ppm	3.0454 ppm	0.0930 ppm
Concentration per Run 1	0.0006 ppm	0.0408 ppm	0.0482 ppm	0.0709 ppm	93.1448 ppm	3.0868 ppm	0.0938 ppm
Concentration per Run 2	0.0007 ppm	0.0405 ppm	0.0474 ppm	0.0694 ppm	92.7490 ppm	2.9837 ppm	0.0924 ppm
Concentration per Run 3	0.0008 ppm	0.0405 ppm	0.0470 ppm	0.0715 ppm	93.0981 ppm	3.0656 ppm	0.0928 ppm
Concentration RSD	8.7 %	0.5 %	1.4 %	1.6 %	0.2 %	1.8 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	15.8416 ppm	2.3330 ppm	0.0006 ppm	0.1427 ppm	0.0899 ppm	0.0715 ppm	0.0001 ppm
Concentration per Run 1	16.0800 ppm	2.3318 ppm	0.0006 ppm	0.1434 ppm	0.0902 ppm	0.0725 ppm	0.0006 ppm
Concentration per Run 2	15.7560 ppm	2.3254 ppm	0.0009 ppm	0.1412 ppm	0.0897 ppm	0.0704 ppm	-0.0020 ppm
Concentration per Run 3	15.6888 ppm	2.3420 ppm	0.0003 ppm	0.1434 ppm	0.0897 ppm	0.0716 ppm	0.0018 ppm
Concentration RSD	1.3 %	0.4 %	47.0 %	0.9 %	0.3 %	1.5 %	1,382.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0000 ppm	8.0473 ppm	0.0008 ppm	0.0344 ppm	0.4039 ppm	0.0002 ppm	0.0544 ppm
Concentration per Run 1	-0.0012 ppm	8.2412 ppm	0.0009 ppm	0.0345 ppm	0.4137 ppm	0.0009 ppm	0.0550 ppm
Concentration per Run 2	0.0006 ppm	7.9507 ppm	0.0017 ppm	0.0343 ppm	0.4079 ppm	0.0004 ppm	0.0545 ppm
Concentration per Run 3	0.0006 ppm	7.9500 ppm	-0.0003 ppm	0.0343 ppm	0.3899 ppm	-0.0007 ppm	0.0536 ppm
Concentration RSD	7,804.8 %	2.1 %	129.2 %	0.3 %	3.1 %	425.6 %	1.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2517 ppm	98.3102 %	105.6381 %	97.5888 %	105.6656 %	116.2156 %	108.9040 %
Concentration per Run 1	0.2550 ppm	96.9980 %	105.5375 %	97.7082 %	105.0005 %	116.3517 %	109.3193 %
Concentration per Run 2	0.2494 ppm	99.1983 %	106.0028 %	97.5710 %	106.1748 %	115.9394 %	108.9735 %
Concentration per Run 3	0.2508 ppm	98.7344 %	105.3739 %	97.4871 %	105.8215 %	116.3559 %	108.4191 %
Concentration RSD	1.2 %	1.2 %	0.3 %	0.1 %	0.6 %	0.2 %	0.4 %

iCAP Pro Trace 8 Data report

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LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-11D2 WG1975911
Analysis started at: 9/25/2024 2:41:04 PM
Rack 2
Vial 17
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0525 ppm	45.1575 ppm	0.1590 ppm	1.0155 ppm	2.2694 ppm	0.0561 ppm	15.2135 ppm
Concentration per Run 1	0.0525 ppm	45.2645 ppm	0.1597 ppm	1.0171 ppm	2.2845 ppm	0.0564 ppm	15.2574 ppm
Concentration per Run 2	0.0524 ppm	45.0011 ppm	0.1592 ppm	1.0112 ppm	2.2560 ppm	0.0564 ppm	15.2356 ppm
Concentration per Run 3	0.0526 ppm	45.2069 ppm	0.1582 ppm	1.0182 ppm	2.2677 ppm	0.0555 ppm	15.1475 ppm
Concentration RSD	0.2 %	0.3 %	0.5 %	0.4 %	0.6 %	0.9 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0545 ppm	0.5608 ppm	0.2598 ppm	0.3469 ppm	96.7105 ppm	13.0520 ppm	0.0971 ppm
Concentration per Run 1	0.0546 ppm	0.5619 ppm	0.2601 ppm	0.3472 ppm	97.4470 ppm	13.1609 ppm	0.0994 ppm
Concentration per Run 2	0.0542 ppm	0.5587 ppm	0.2594 ppm	0.3467 ppm	95.9613 ppm	12.8932 ppm	0.0960 ppm
Concentration per Run 3	0.0547 ppm	0.5617 ppm	0.2600 ppm	0.3469 ppm	96.7234 ppm	13.1018 ppm	0.0958 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %	0.1 %	0.8 %	1.1 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.7835 ppm	2.9243 ppm	1.0331 ppm	10.4149 ppm	0.6169 ppm	0.6452 ppm	0.5118 ppm
Concentration per Run 1	26.9200 ppm	2.9291 ppm	1.0317 ppm	10.4856 ppm	0.6179 ppm	0.6476 ppm	0.5141 ppm
Concentration per Run 2	26.7057 ppm	2.9260 ppm	1.0269 ppm	10.2806 ppm	0.6139 ppm	0.6462 ppm	0.5123 ppm
Concentration per Run 3	26.7247 ppm	2.9178 ppm	1.0408 ppm	10.4786 ppm	0.6190 ppm	0.6416 ppm	0.5090 ppm
Concentration RSD	0.4 %	0.2 %	0.7 %	1.1 %	0.4 %	0.5 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1242 ppm	12.3674 ppm	0.9987 ppm	1.0498 ppm	1.4891 ppm	0.1262 ppm	0.5920 ppm
Concentration per Run 1	0.1251 ppm	12.7200 ppm	1.0057 ppm	1.0530 ppm	1.5171 ppm	0.1251 ppm	0.5951 ppm
Concentration per Run 2	0.1228 ppm	12.2194 ppm	0.9873 ppm	1.0562 ppm	1.4642 ppm	0.1276 ppm	0.5901 ppm
Concentration per Run 3	0.1247 ppm	12.1626 ppm	1.0030 ppm	1.0401 ppm	1.4859 ppm	0.1259 ppm	0.5910 ppm
Concentration RSD	1.0 %	2.5 %	1.0 %	0.8 %	1.8 %	1.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7872 ppm	98.6615 %	105.8118 %	94.4079 %	106.0046 %	116.1765 %	107.0397 %
Concentration per Run 1	0.7904 ppm	98.2557 %	105.5418 %	94.2316 %	105.6770 %	116.0684 %	106.9534 %
Concentration per Run 2	0.7832 ppm	99.0885 %	105.0834 %	94.6858 %	106.8118 %	115.2424 %	107.3467 %
Concentration per Run 3	0.7880 ppm	98.6403 %	106.8104 %	94.3062 %	105.5249 %	117.2188 %	106.8190 %
Concentration RSD	0.5 %	0.4 %	0.8 %	0.3 %	0.7 %	0.9 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-12D2 WG1975911
Analysis started at: 9/25/2024 2:45:01 PM
Rack 2
Vial 18
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0521 ppm	43.6707 ppm	0.1572 ppm	1.0005 ppm	2.2459 ppm	0.0561 ppm	15.2204 ppm
Concentration per Run 1	0.0527 ppm	43.6727 ppm	0.1576 ppm	1.0085 ppm	2.2483 ppm	0.0562 ppm	15.2382 ppm
Concentration per Run 2	0.0519 ppm	43.6427 ppm	0.1578 ppm	0.9982 ppm	2.2424 ppm	0.0560 ppm	15.2578 ppm
Concentration per Run 3	0.0517 ppm	43.6967 ppm	0.1561 ppm	0.9947 ppm	2.2471 ppm	0.0560 ppm	15.1653 ppm
Concentration RSD	1.0 %	0.1 %	0.6 %	0.7 %	0.1 %	0.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0538 ppm	0.5528 ppm	0.2541 ppm	0.3415 ppm	92.5359 ppm	12.8139 ppm	0.0968 ppm
Concentration per Run 1	0.0544 ppm	0.5559 ppm	0.2546 ppm	0.3433 ppm	92.4763 ppm	12.8798 ppm	0.1002 ppm
Concentration per Run 2	0.0536 ppm	0.5529 ppm	0.2534 ppm	0.3409 ppm	92.5316 ppm	12.7801 ppm	0.0956 ppm
Concentration per Run 3	0.0532 ppm	0.5496 ppm	0.2542 ppm	0.3403 ppm	92.5999 ppm	12.7817 ppm	0.0948 ppm
Concentration RSD	1.1 %	0.6 %	0.2 %	0.5 %	0.1 %	0.4 %	3.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.1916 ppm	3.0714 ppm	1.0208 ppm	10.2583 ppm	0.6074 ppm	0.6267 ppm	0.5048 ppm
Concentration per Run 1	26.3345 ppm	3.0755 ppm	1.0185 ppm	10.2238 ppm	0.6087 ppm	0.6264 ppm	0.5016 ppm
Concentration per Run 2	26.2071 ppm	3.0796 ppm	1.0207 ppm	10.2670 ppm	0.6054 ppm	0.6272 ppm	0.5060 ppm
Concentration per Run 3	26.0330 ppm	3.0591 ppm	1.0232 ppm	10.2840 ppm	0.6080 ppm	0.6267 ppm	0.5069 ppm
Concentration RSD	0.6 %	0.4 %	0.2 %	0.3 %	0.3 %	0.1 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1214 ppm	12.8066 ppm	0.9817 ppm	1.0469 ppm	1.4513 ppm	0.1264 ppm	0.5788 ppm
Concentration per Run 1	0.1234 ppm	12.9588 ppm	0.9794 ppm	1.0493 ppm	1.4641 ppm	0.1251 ppm	0.5796 ppm
Concentration per Run 2	0.1194 ppm	12.8803 ppm	0.9828 ppm	1.0483 ppm	1.4495 ppm	0.1268 ppm	0.5796 ppm
Concentration per Run 3	0.1213 ppm	12.5807 ppm	0.9830 ppm	1.0432 ppm	1.4404 ppm	0.1273 ppm	0.5771 ppm
Concentration RSD	1.6 %	1.6 %	0.2 %	0.3 %	0.8 %	0.9 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7675 ppm	98.2062 %	103.9037 %	93.8593 %	104.6885 %	113.8231 %	106.0451 %
Concentration per Run 1	0.7737 ppm	97.8851 %	104.4972 %	93.8700 %	105.3384 %	114.6000 %	105.6895 %
Concentration per Run 2	0.7660 ppm	97.7883 %	102.2720 %	93.7195 %	103.7132 %	111.6722 %	105.6522 %
Concentration per Run 3	0.7627 ppm	98.9453 %	104.9421 %	93.9883 %	105.0138 %	115.1971 %	106.7937 %
Concentration RSD	0.7 %	0.7 %	1.4 %	0.1 %	0.8 %	1.7 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-13D2 WG1975911
Analysis started at: 9/25/2024 2:48:59 PM
Rack 2
Vial 19
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0492 ppm	41.7992 ppm	0.1529 ppm	0.9602 ppm	2.1474 ppm	0.0526 ppm	14.5372 ppm
Concentration per Run 1	0.0498 ppm	41.9396 ppm	0.1543 ppm	0.9654 ppm	2.1309 ppm	0.0530 ppm	14.5747 ppm
Concentration per Run 2	0.0489 ppm	41.7839 ppm	0.1525 ppm	0.9557 ppm	2.1611 ppm	0.0519 ppm	14.4889 ppm
Concentration per Run 3	0.0488 ppm	41.6741 ppm	0.1519 ppm	0.9594 ppm	2.1501 ppm	0.0529 ppm	14.5481 ppm
Concentration RSD	1.1 %	0.3 %	0.8 %	0.5 %	0.7 %	1.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0513 ppm	0.5191 ppm	0.2384 ppm	0.3188 ppm	92.6281 ppm	13.0213 ppm	0.0909 ppm
Concentration per Run 1	0.0519 ppm	0.5242 ppm	0.2410 ppm	0.3216 ppm	92.1390 ppm	12.9381 ppm	0.0890 ppm
Concentration per Run 2	0.0507 ppm	0.5163 ppm	0.2365 ppm	0.3172 ppm	93.0156 ppm	13.1514 ppm	0.0929 ppm
Concentration per Run 3	0.0513 ppm	0.5169 ppm	0.2375 ppm	0.3175 ppm	92.7297 ppm	12.9744 ppm	0.0907 ppm
Concentration RSD	1.2 %	0.8 %	1.0 %	0.8 %	0.5 %	0.9 %	2.2 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	25.0845 ppm	2.7729 ppm	0.9394 ppm	9.9894 ppm	0.5691 ppm	0.5995 ppm	0.4293 ppm
Concentration per Run 1	25.4281 ppm	2.7730 ppm	0.9416 ppm	9.8813 ppm	0.5759 ppm	0.5990 ppm	0.4322 ppm
Concentration per Run 2	24.8929 ppm	2.7766 ppm	0.9320 ppm	10.2182 ppm	0.5646 ppm	0.5967 ppm	0.4270 ppm
Concentration per Run 3	24.9326 ppm	2.7690 ppm	0.9446 ppm	9.8687 ppm	0.5669 ppm	0.6027 ppm	0.4287 ppm
Concentration RSD	1.2 %	0.1 %	0.7 %	2.0 %	1.1 %	0.5 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1195 ppm	8.8188 ppm	0.9448 ppm	0.9948 ppm	1.3846 ppm	0.1210 ppm	0.5456 ppm
Concentration per Run 1	0.1190 ppm	8.9126 ppm	0.9560 ppm	1.0030 ppm	1.4035 ppm	0.1191 ppm	0.5516 ppm
Concentration per Run 2	0.1201 ppm	8.7463 ppm	0.9307 ppm	0.9795 ppm	1.3798 ppm	0.1221 ppm	0.5408 ppm
Concentration per Run 3	0.1195 ppm	8.7974 ppm	0.9477 ppm	1.0019 ppm	1.3707 ppm	0.1216 ppm	0.5443 ppm
Concentration RSD	0.5 %	1.0 %	1.4 %	1.3 %	1.2 %	1.3 %	1.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7258 ppm	97.8810 %	104.7173 %	94.1984 %	104.7442 %	114.3569 %	106.0622 %
Concentration per Run 1	0.7365 ppm	96.3917 %	104.3794 %	94.6278 %	104.0410 %	114.6754 %	106.4304 %
Concentration per Run 2	0.7194 ppm	98.7976 %	105.4408 %	94.1792 %	105.5414 %	114.4471 %	106.1999 %
Concentration per Run 3	0.7215 ppm	98.4537 %	104.3316 %	93.7881 %	104.6503 %	113.9482 %	105.5563 %
Concentration RSD	1.3 %	1.3 %	0.6 %	0.4 %	0.7 %	0.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975911-14D10 WG1975911
Analysis started at: 9/25/2024 2:52:56 PM
Rack 2
Vial 20
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	8.5765 ppm	0.0065 ppm	0.0034 ppm	0.0439 ppm	0.0004 ppm	1.0018 ppm
Concentration per Run 1	0.0002 ppm	8.6315 ppm	0.0069 ppm	0.0033 ppm	0.0441 ppm	0.0004 ppm	1.0034 ppm
Concentration per Run 2	-0.0004 ppm	8.5664 ppm	0.0067 ppm	0.0032 ppm	0.0438 ppm	0.0004 ppm	1.0025 ppm
Concentration per Run 3	-0.0002 ppm	8.5317 ppm	0.0060 ppm	0.0035 ppm	0.0437 ppm	0.0004 ppm	0.9996 ppm
Concentration RSD	182.3 %	0.6 %	7.1 %	4.2 %	0.5 %	5.2 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0089 ppm	0.0101 ppm	0.0152 ppm	20.0172 ppm	0.6953 ppm	0.0200 ppm
Concentration per Run 1	0.0002 ppm	0.0094 ppm	0.0105 ppm	0.0155 ppm	20.0324 ppm	0.7399 ppm	0.0198 ppm
Concentration per Run 2	0.0001 ppm	0.0085 ppm	0.0097 ppm	0.0148 ppm	20.0681 ppm	0.6821 ppm	0.0205 ppm
Concentration per Run 3	0.0000 ppm	0.0087 ppm	0.0100 ppm	0.0153 ppm	19.9510 ppm	0.6640 ppm	0.0198 ppm
Concentration RSD	97.3 %	5.3 %	4.0 %	2.3 %	0.3 %	5.7 %	1.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.3653 ppm	0.4922 ppm	0.0035 ppm	0.0263 ppm	0.0191 ppm	0.0140 ppm	0.0040 ppm
Concentration per Run 1	3.4147 ppm	0.4936 ppm	0.0036 ppm	0.0265 ppm	0.0197 ppm	0.0140 ppm	0.0032 ppm
Concentration per Run 2	3.3571 ppm	0.4916 ppm	0.0035 ppm	0.0243 ppm	0.0190 ppm	0.0141 ppm	0.0041 ppm
Concentration per Run 3	3.3240 ppm	0.4914 ppm	0.0035 ppm	0.0280 ppm	0.0185 ppm	0.0140 ppm	0.0047 ppm
Concentration RSD	1.4 %	0.2 %	1.4 %	7.0 %	3.3 %	0.2 %	19.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0001 ppm	2.0172 ppm	0.0008 ppm	0.0072 ppm	0.0944 ppm	0.0003 ppm	0.0116 ppm
Concentration per Run 1	0.0004 ppm	2.0692 ppm	0.0001 ppm	0.0072 ppm	0.0948 ppm	0.0001 ppm	0.0117 ppm
Concentration per Run 2	0.0004 ppm	1.9919 ppm	0.0005 ppm	0.0071 ppm	0.0975 ppm	0.0009 ppm	0.0118 ppm
Concentration per Run 3	-0.0006 ppm	1.9906 ppm	0.0019 ppm	0.0072 ppm	0.0907 ppm	0.0000 ppm	0.0114 ppm
Concentration RSD	650.8 %	2.2 %	115.2 %	0.9 %	3.6 %	157.4 %	1.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0532 ppm	96.2473 %	104.6329 %	98.6638 %	96.8879 %	105.8556 %	100.6289 %
Concentration per Run 1	0.0542 ppm	94.7636 %	105.4119 %	98.6248 %	96.3210 %	106.9449 %	100.7686 %
Concentration per Run 2	0.0530 ppm	96.3699 %	105.0218 %	98.6273 %	96.5614 %	105.9130 %	100.8295 %
Concentration per Run 3	0.0526 ppm	97.6086 %	103.4649 %	98.7394 %	97.7813 %	104.7088 %	100.2885 %
Concentration RSD	1.6 %	1.5 %	1.0 %	0.1 %	0.8 %	1.1 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 2:56:54 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.5000 ppm	0.4762 ppm	0.4749 ppm	0.4906 ppm	0.5037 ppm	0.5140 ppm	0.4926 ppm
Concentration per Run 1	0.5048 ppm	0.4714 ppm	0.4761 ppm	0.4938 ppm	0.5007 ppm	0.5132 ppm	0.4941 ppm
Concentration per Run 2	0.4984 ppm	0.4847 ppm	0.4777 ppm	0.4908 ppm	0.5047 ppm	0.5146 ppm	0.4932 ppm
Concentration per Run 3	0.4968 ppm	0.4726 ppm	0.4709 ppm	0.4873 ppm	0.5056 ppm	0.5142 ppm	0.4905 ppm
Recovery Percentage 1	100.000 %	95.244 %	94.976 %	98.119 %	100.733 %	102.794 %	98.516 %
Concentration RSD	0.8 %	1.5 %	0.8 %	0.7 %	0.5 %	0.1 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5066 ppm	0.5080 ppm	0.5018 ppm	0.4867 ppm	0.5093 ppm	5.0527 ppm	0.4702 ppm
Concentration per Run 1	0.5114 ppm	0.5131 ppm	0.5075 ppm	0.4910 ppm	0.5070 ppm	5.0239 ppm	0.4594 ppm
Concentration per Run 2	0.5037 ppm	0.5037 ppm	0.4992 ppm	0.4856 ppm	0.5073 ppm	5.0437 ppm	0.4727 ppm
Concentration per Run 3	0.5047 ppm	0.5072 ppm	0.4986 ppm	0.4836 ppm	0.5137 ppm	5.0905 ppm	0.4785 ppm
Recovery Percentage 1	101.315 %	101.597 %	100.353 %	97.349 %	101.869 %	101.054 %	94.036 %
Concentration RSD	0.8 %	0.9 %	1.0 %	0.8 %	0.7 %	0.7 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4953 ppm	0.4980 ppm	0.4944 ppm	9.9206 ppm	0.5090 ppm	0.4953 ppm	0.4932 ppm
Concentration per Run 1	0.5055 ppm	0.4986 ppm	0.4939 ppm	9.8515 ppm	0.5156 ppm	0.4958 ppm	0.4958 ppm
Concentration per Run 2	0.4912 ppm	0.4979 ppm	0.4932 ppm	9.9563 ppm	0.5062 ppm	0.4945 ppm	0.4941 ppm
Concentration per Run 3	0.4892 ppm	0.4977 ppm	0.4960 ppm	9.9539 ppm	0.5051 ppm	0.4956 ppm	0.4896 ppm
Recovery Percentage 1	99.064 %	99.609 %	98.871 %	99.206 %	101.793 %	99.056 %	98.639 %
Concentration RSD	1.8 %	0.1 %	0.3 %	0.6 %	1.1 %	0.1 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4913 ppm	5.5414 ppm	0.4868 ppm	0.4873 ppm	0.5030 ppm	0.4869 ppm	0.5033 ppm
Concentration per Run 1	0.4895 ppm	5.5826 ppm	0.4929 ppm	0.4885 ppm	0.5074 ppm	0.4846 ppm	0.5070 ppm
Concentration per Run 2	0.4940 ppm	5.5164 ppm	0.4833 ppm	0.4866 ppm	0.5007 ppm	0.4901 ppm	0.5007 ppm
Concentration per Run 3	0.4904 ppm	5.5251 ppm	0.4842 ppm	0.4868 ppm	0.5008 ppm	0.4860 ppm	0.5023 ppm
Recovery Percentage 1	98.256 %	105.551 %	97.363 %	97.459 %	100.592 %	97.379 %	100.664 %
Concentration RSD	0.5 %	0.6 %	1.1 %	0.2 %	0.8 %	0.6 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5057 ppm	96.9956 %	104.5181 %	97.9804 %	94.3986 %	102.7145 %	96.7828 %
Concentration per Run 1	0.5124 ppm	95.9165 %	104.1205 %	97.8488 %	93.9114 %	102.3614 %	96.5110 %
Concentration per Run 2	0.5016 ppm	97.7671 %	105.4149 %	97.7978 %	94.9483 %	103.6717 %	96.7554 %
Concentration per Run 3	0.5031 ppm	97.3033 %	104.0190 %	98.2945 %	94.3361 %	102.1104 %	97.0820 %
Recovery Percentage 1	101.138 %						
Concentration RSD	1.2 %	1.0 %	0.7 %	0.3 %	0.6 %	0.8 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 3:00:53 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0109 ppm	0.0009 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 1	0.0001 ppm	-0.0011 ppm	0.0009 ppm	0.0027 ppm	0.0001 ppm	0.0000 ppm	0.0043 ppm
Concentration per Run 2	-0.0002 ppm	-0.0113 ppm	0.0014 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 3	0.0001 ppm	-0.0202 ppm	0.0002 ppm	0.0017 ppm	-0.0001 ppm	0.0000 ppm	0.0018 ppm
Recovery Percentage 1	-0.327 %	-10.856 %	28.552 %	5.183 %	-0.320 %	0.403 %	3.041 %
Concentration RSD	616.0 %	88.0 %	68.4 %	76.8 %	394.0 %	47.4 %	39.8 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0045 ppm	-0.0314 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm	0.0044 ppm	-0.0151 ppm	0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0010 ppm	0.0041 ppm	-0.0574 ppm	-0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0051 ppm	-0.0216 ppm	0.0005 ppm
Recovery Percentage 1	1.593 %	0.803 %	1.675 %	8.572 %	9.082 %	-1.254 %	2.949 %
Concentration RSD	38.4 %	72.9 %	63.0 %	25.2 %	11.8 %	72.6 %	219.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0020 ppm	-0.0001 ppm	0.0020 ppm	-0.0156 ppm	0.0002 ppm	-0.0009 ppm	0.0006 ppm
Concentration per Run 1	-0.0019 ppm	-0.0001 ppm	0.0021 ppm	-0.0179 ppm	0.0005 ppm	-0.0016 ppm	0.0017 ppm
Concentration per Run 2	-0.0015 ppm	0.0000 ppm	0.0021 ppm	-0.0145 ppm	0.0005 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 3	-0.0027 ppm	-0.0001 ppm	0.0017 ppm	-0.0146 ppm	-0.0003 ppm	-0.0015 ppm	-0.0005 ppm
Recovery Percentage 1	-2.027 %	-0.905 %	3.945 %	-0.782 %	0.939 %	-9.123 %	1.123 %
Concentration RSD	28.6 %	87.8 %	10.0 %	12.3 %	205.6 %	121.1 %	199.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0011 ppm	0.0096 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 1	-0.0002 ppm	0.0070 ppm	0.0003 ppm	0.0000 ppm	0.0004 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0029 ppm	0.0141 ppm	-0.0004 ppm	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0006 ppm	0.0077 ppm	0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0003 ppm
Recovery Percentage 1	11.132 %	1.918 %	0.174 %	0.964 %	1.695 %	1.609 %	0.863 %
Concentration RSD	145.9 %	40.8 %	520.7 %	125.7 %	171.2 %	240.8 %	200.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	94.1371 %	101.8924 %	96.8041 %	94.9511 %	102.3293 %	97.3928 %
Concentration per Run 1	0.0008 ppm	93.0508 %	100.5897 %	97.0815 %	94.8033 %	101.6512 %	97.8636 %
Concentration per Run 2	0.0007 ppm	93.9373 %	103.8199 %	96.6313 %	94.7857 %	103.8608 %	97.4226 %
Concentration per Run 3	0.0006 ppm	95.4231 %	101.2677 %	96.6994 %	95.2642 %	101.4759 %	96.8922 %
Recovery Percentage 1	14.135 %						
Concentration RSD	14.2 %	1.3 %	1.7 %	0.3 %	0.3 %	1.3 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453655-01D2 WG1974891
Analysis started at: 9/25/2024 3:07:12 PM
Rack 2
Vial 32
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0009 ppm	81.0271 ppm	0.0624 ppm	0.0140 ppm	0.4661 ppm	0.0038 ppm	50.7191 ppm
Concentration per Run 1	0.0010 ppm	81.2180 ppm	0.0610 ppm	0.0133 ppm	0.4665 ppm	0.0038 ppm	50.8165 ppm
Concentration per Run 2	0.0007 ppm	80.9584 ppm	0.0626 ppm	0.0152 ppm	0.4668 ppm	0.0039 ppm	50.7530 ppm
Concentration per Run 3	0.0010 ppm	80.9049 ppm	0.0637 ppm	0.0135 ppm	0.4649 ppm	0.0038 ppm	50.5878 ppm
Concentration RSD	15.9 %	0.2 %	2.1 %	7.5 %	0.2 %	0.9 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0016 ppm	0.0608 ppm	0.1433 ppm	0.2586 ppm	146.8875 ppm	10.3888 ppm	0.1358 ppm
Concentration per Run 1	0.0016 ppm	0.0609 ppm	0.1434 ppm	0.2599 ppm	147.2845 ppm	10.4818 ppm	0.1375 ppm
Concentration per Run 2	0.0016 ppm	0.0606 ppm	0.1434 ppm	0.2570 ppm	147.0662 ppm	10.3649 ppm	0.1363 ppm
Concentration per Run 3	0.0017 ppm	0.0609 ppm	0.1430 ppm	0.2589 ppm	146.3118 ppm	10.3196 ppm	0.1337 ppm
Concentration RSD	5.0 %	0.3 %	0.2 %	0.6 %	0.3 %	0.8 %	1.4 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.5693 ppm	3.1473 ppm	0.0096 ppm	2.1542 ppm	0.1182 ppm	1.3715 ppm	0.0043 ppm
Concentration per Run 1	29.7054 ppm	3.1504 ppm	0.0098 ppm	2.1596 ppm	0.1188 ppm	1.3689 ppm	0.0030 ppm
Concentration per Run 2	29.5530 ppm	3.1526 ppm	0.0097 ppm	2.1604 ppm	0.1177 ppm	1.3734 ppm	0.0049 ppm
Concentration per Run 3	29.4496 ppm	3.1388 ppm	0.0094 ppm	2.1427 ppm	0.1181 ppm	1.3723 ppm	0.0050 ppm
Concentration RSD	0.4 %	0.2 %	2.1 %	0.5 %	0.5 %	0.2 %	26.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0013 ppm	3.0090 ppm	0.0178 ppm	0.3114 ppm	3.7367 ppm	0.0029 ppm	0.2226 ppm
Concentration per Run 1	0.0024 ppm	3.0238 ppm	0.0171 ppm	0.3122 ppm	3.7584 ppm	0.0024 ppm	0.2231 ppm
Concentration per Run 2	0.0012 ppm	3.0061 ppm	0.0179 ppm	0.3127 ppm	3.7283 ppm	0.0020 ppm	0.2226 ppm
Concentration per Run 3	0.0002 ppm	2.9970 ppm	0.0183 ppm	0.3092 ppm	3.7235 ppm	0.0041 ppm	0.2221 ppm
Concentration RSD	85.9 %	0.5 %	3.3 %	0.6 %	0.5 %	38.8 %	0.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5921 ppm	107.4383 %	109.1451 %	96.1392 %	120.6743 %	124.5596 %	119.5018 %
Concentration per Run 1	0.5933 ppm	107.5383 %	109.6292 %	96.1755 %	120.1656 %	125.5455 %	119.6361 %
Concentration per Run 2	0.5910 ppm	107.2310 %	108.7016 %	96.6339 %	120.8222 %	124.3908 %	120.0780 %
Concentration per Run 3	0.5919 ppm	107.5455 %	109.1046 %	95.6081 %	121.0352 %	123.7425 %	118.7912 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.5 %	0.4 %	0.7 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453671-01D2 WG1974891
Analysis started at: 9/25/2024 3:11:32 PM
Rack 2
Vial 33
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	80.2523 ppm	0.1745 ppm	0.0036 ppm	0.4051 ppm	0.0025 ppm	27.7288 ppm
Concentration per Run 1	-0.0002 ppm	79.7567 ppm	0.1724 ppm	0.0038 ppm	0.4077 ppm	0.0026 ppm	27.7746 ppm
Concentration per Run 2	0.0001 ppm	80.0245 ppm	0.1759 ppm	0.0031 ppm	0.4017 ppm	0.0026 ppm	27.7707 ppm
Concentration per Run 3	0.0002 ppm	80.9756 ppm	0.1752 ppm	0.0039 ppm	0.4059 ppm	0.0024 ppm	27.6410 ppm
Concentration RSD	709.6 %	0.8 %	1.1 %	12.0 %	0.8 %	5.2 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0002 ppm	0.0410 ppm	0.1820 ppm	0.1089 ppm	122.2700 ppm	24.8158 ppm	0.1065 ppm
Concentration per Run 1	0.0002 ppm	0.0419 ppm	0.1840 ppm	0.1096 ppm	122.4280 ppm	24.6430 ppm	0.1066 ppm
Concentration per Run 2	0.0003 ppm	0.0408 ppm	0.1818 ppm	0.1088 ppm	121.6550 ppm	24.4756 ppm	0.1044 ppm
Concentration per Run 3	0.0002 ppm	0.0404 ppm	0.1801 ppm	0.1082 ppm	122.7271 ppm	25.3290 ppm	0.1086 ppm
Concentration RSD	29.2 %	1.9 %	1.1 %	0.7 %	0.5 %	1.8 %	2.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	41.0782 ppm	1.6040 ppm	0.0095 ppm	0.7746 ppm	0.0974 ppm	0.0822 ppm	0.0021 ppm
Concentration per Run 1	41.4563 ppm	1.6034 ppm	0.0094 ppm	0.7697 ppm	0.0978 ppm	0.0839 ppm	0.0000 ppm
Concentration per Run 2	41.0954 ppm	1.6013 ppm	0.0095 ppm	0.7678 ppm	0.0976 ppm	0.0808 ppm	0.0050 ppm
Concentration per Run 3	40.6827 ppm	1.6074 ppm	0.0095 ppm	0.7863 ppm	0.0969 ppm	0.0820 ppm	0.0013 ppm
Concentration RSD	0.9 %	0.2 %	0.5 %	1.3 %	0.5 %	1.9 %	123.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0002 ppm	2.1999 ppm	0.0043 ppm	0.0463 ppm	5.0897 ppm	0.0048 ppm	0.1699 ppm
Concentration per Run 1	0.0000 ppm	2.2325 ppm	0.0051 ppm	0.0470 ppm	5.1366 ppm	0.0054 ppm	0.1713 ppm
Concentration per Run 2	0.0004 ppm	2.2005 ppm	0.0039 ppm	0.0463 ppm	5.0818 ppm	0.0050 ppm	0.1693 ppm
Concentration per Run 3	-0.0009 ppm	2.1667 ppm	0.0037 ppm	0.0456 ppm	5.0506 ppm	0.0040 ppm	0.1691 ppm
Concentration RSD	365.4 %	1.5 %	17.9 %	1.5 %	0.9 %	15.0 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2839 ppm	99.0209 %	107.5496 %	91.4987 %	107.7279 %	119.3961 %	109.7354 %
Concentration per Run 1	0.2856 ppm	98.2441 %	106.4938 %	91.5482 %	107.7841 %	118.3727 %	109.8717 %
Concentration per Run 2	0.2850 ppm	98.7806 %	106.7851 %	91.1119 %	107.0707 %	118.5920 %	109.2866 %
Concentration per Run 3	0.2811 ppm	100.0380 %	109.3700 %	91.8361 %	108.3290 %	121.2235 %	110.0478 %
Concentration RSD	0.9 %	0.9 %	1.5 %	0.4 %	0.6 %	1.3 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453671-02D2 WG1974891
Analysis started at: 9/25/2024 3:15:32 PM
Rack 2
Vial 34
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0005 ppm	83.3300 ppm	0.1671 ppm	0.0019 ppm	0.4483 ppm	0.0030 ppm	6.6317 ppm
Concentration per Run 1	-0.0003 ppm	83.8524 ppm	0.1676 ppm	0.0023 ppm	0.4521 ppm	0.0029 ppm	6.6595 ppm
Concentration per Run 2	-0.0007 ppm	83.2245 ppm	0.1661 ppm	0.0027 ppm	0.4448 ppm	0.0031 ppm	6.6414 ppm
Concentration per Run 3	-0.0005 ppm	82.9130 ppm	0.1677 ppm	0.0006 ppm	0.4481 ppm	0.0031 ppm	6.5941 ppm
Concentration RSD	37.8 %	0.6 %	0.6 %	60.3 %	0.8 %	2.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0003 ppm	0.0475 ppm	0.1627 ppm	0.1046 ppm	114.2943 ppm	23.9103 ppm	0.1044 ppm
Concentration per Run 1	0.0003 ppm	0.0477 ppm	0.1638 ppm	0.1058 ppm	115.1750 ppm	24.3344 ppm	0.1051 ppm
Concentration per Run 2	0.0003 ppm	0.0472 ppm	0.1631 ppm	0.1047 ppm	113.8793 ppm	23.6079 ppm	0.1035 ppm
Concentration per Run 3	0.0002 ppm	0.0476 ppm	0.1611 ppm	0.1034 ppm	113.8287 ppm	23.7886 ppm	0.1047 ppm
Concentration RSD	20.0 %	0.6 %	0.9 %	1.2 %	0.7 %	1.6 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	29.9617 ppm	1.8044 ppm	0.0072 ppm	1.7905 ppm	0.0912 ppm	0.0643 ppm	0.0004 ppm
Concentration per Run 1	30.1733 ppm	1.8143 ppm	0.0072 ppm	1.8043 ppm	0.0922 ppm	0.0636 ppm	-0.0001 ppm
Concentration per Run 2	29.8871 ppm	1.8032 ppm	0.0074 ppm	1.7839 ppm	0.0914 ppm	0.0647 ppm	0.0024 ppm
Concentration per Run 3	29.8246 ppm	1.7956 ppm	0.0071 ppm	1.7833 ppm	0.0900 ppm	0.0646 ppm	-0.0010 ppm
Concentration RSD	0.6 %	0.5 %	1.9 %	0.7 %	1.2 %	1.0 %	398.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0019 ppm	2.2669 ppm	0.0028 ppm	0.0381 ppm	5.1291 ppm	0.0064 ppm	0.1553 ppm
Concentration per Run 1	0.0019 ppm	2.3013 ppm	0.0024 ppm	0.0383 ppm	5.1574 ppm	0.0063 ppm	0.1561 ppm
Concentration per Run 2	0.0027 ppm	2.2629 ppm	0.0021 ppm	0.0382 ppm	5.1298 ppm	0.0054 ppm	0.1556 ppm
Concentration per Run 3	0.0011 ppm	2.2365 ppm	0.0039 ppm	0.0380 ppm	5.1001 ppm	0.0076 ppm	0.1541 ppm
Concentration RSD	42.8 %	1.4 %	32.9 %	0.5 %	0.6 %	16.9 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2630 ppm	98.7833 %	107.1674 %	92.3098 %	106.0333 %	117.9804 %	108.8584 %
Concentration per Run 1	0.2649 ppm	98.0759 %	107.6207 %	92.5760 %	105.7805 %	118.6619 %	109.3128 %
Concentration per Run 2	0.2628 ppm	98.9704 %	106.2387 %	92.3606 %	106.4333 %	117.3910 %	109.0410 %
Concentration per Run 3	0.2612 ppm	99.3035 %	107.6427 %	91.9929 %	105.8860 %	117.8883 %	108.2215 %
Concentration RSD	0.7 %	0.6 %	0.8 %	0.3 %	0.3 %	0.5 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453716-04D2 WG1975357
Analysis started at: 9/25/2024 3:19:30 PM
Rack 2
Vial 45
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0012 ppm	90.2835 ppm	0.1197 ppm	0.1164 ppm	0.9523 ppm	0.0056 ppm	57.9452 ppm
Concentration per Run 1	0.0017 ppm	90.4162 ppm	0.1193 ppm	0.1182 ppm	0.9574 ppm	0.0056 ppm	57.9537 ppm
Concentration per Run 2	0.0013 ppm	90.2270 ppm	0.1213 ppm	0.1152 ppm	0.9507 ppm	0.0056 ppm	57.9226 ppm
Concentration per Run 3	0.0006 ppm	90.2074 ppm	0.1184 ppm	0.1159 ppm	0.9486 ppm	0.0056 ppm	57.9594 ppm
Concentration RSD	45.0 %	0.1 %	1.2 %	1.3 %	0.5 %	0.3 %	0.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0029 ppm	0.0837 ppm	0.1881 ppm	0.3422 ppm	184.8160 ppm	13.6303 ppm	0.1774 ppm
Concentration per Run 1	0.0030 ppm	0.0842 ppm	0.1898 ppm	0.3453 ppm	185.7533 ppm	13.6993 ppm	0.1805 ppm
Concentration per Run 2	0.0029 ppm	0.0840 ppm	0.1882 ppm	0.3425 ppm	184.9896 ppm	13.6546 ppm	0.1759 ppm
Concentration per Run 3	0.0029 ppm	0.0828 ppm	0.1863 ppm	0.3386 ppm	183.7052 ppm	13.5369 ppm	0.1759 ppm
Concentration RSD	1.9 %	0.9 %	0.9 %	1.0 %	0.6 %	0.6 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	40.1253 ppm	3.8613 ppm	0.0097 ppm	5.4235 ppm	0.3656 ppm	2.6298 ppm	0.0102 ppm
Concentration per Run 1	40.5448 ppm	3.8626 ppm	0.0098 ppm	5.4479 ppm	0.3685 ppm	2.6412 ppm	0.0094 ppm
Concentration per Run 2	40.0787 ppm	3.8595 ppm	0.0099 ppm	5.4079 ppm	0.3650 ppm	2.6285 ppm	0.0116 ppm
Concentration per Run 3	39.7524 ppm	3.8619 ppm	0.0093 ppm	5.4147 ppm	0.3632 ppm	2.6198 ppm	0.0096 ppm
Concentration RSD	1.0 %	0.0 %	3.4 %	0.4 %	0.7 %	0.4 %	11.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	1.7293 ppm	0.0597 ppm	0.2831 ppm	2.1800 ppm	0.0026 ppm	0.2464 ppm
Concentration per Run 1	0.0029 ppm	1.7545 ppm	0.0602 ppm	0.2851 ppm	2.2059 ppm	0.0016 ppm	0.2482 ppm
Concentration per Run 2	0.0016 ppm	1.7191 ppm	0.0595 ppm	0.2829 ppm	2.1763 ppm	0.0034 ppm	0.2459 ppm
Concentration per Run 3	0.0030 ppm	1.7142 ppm	0.0593 ppm	0.2813 ppm	2.1578 ppm	0.0026 ppm	0.2451 ppm
Concentration RSD	30.9 %	1.3 %	0.8 %	0.7 %	1.1 %	35.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.8253 ppm	100.9076 %	110.9874 %	93.6905 %	124.3393 %	139.2738 %	125.4470 %
Concentration per Run 1	1.8501 ppm	100.4870 %	111.1292 %	93.4525 %	124.7728 %	138.9224 %	125.3832 %
Concentration per Run 2	1.8189 ppm	101.2675 %	111.0611 %	93.7201 %	125.1471 %	140.0325 %	125.5356 %
Concentration per Run 3	1.8070 ppm	100.9682 %	110.7718 %	93.8991 %	123.0981 %	138.8665 %	125.4222 %
Concentration RSD	1.2 %	0.4 %	0.2 %	0.2 %	0.9 %	0.5 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 3:23:29 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4986 ppm	0.4774 ppm	0.4725 ppm	0.4876 ppm	0.5017 ppm	0.5131 ppm	0.4903 ppm
Concentration per Run 1	0.5046 ppm	0.4804 ppm	0.4760 ppm	0.4946 ppm	0.5035 ppm	0.5175 ppm	0.4926 ppm
Concentration per Run 2	0.4959 ppm	0.4774 ppm	0.4722 ppm	0.4845 ppm	0.5019 ppm	0.5143 ppm	0.4894 ppm
Concentration per Run 3	0.4952 ppm	0.4746 ppm	0.4694 ppm	0.4836 ppm	0.4997 ppm	0.5076 ppm	0.4889 ppm
Recovery Percentage 1	99.715 %	95.489 %	94.505 %	97.515 %	100.339 %	102.623 %	98.060 %
Concentration RSD	1.1 %	0.6 %	0.7 %	1.3 %	0.4 %	1.0 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5016 ppm	0.5040 ppm	0.5000 ppm	0.4856 ppm	0.5140 ppm	5.0411 ppm	0.4729 ppm
Concentration per Run 1	0.5090 ppm	0.5107 ppm	0.5057 ppm	0.4909 ppm	0.5168 ppm	5.0774 ppm	0.4746 ppm
Concentration per Run 2	0.4983 ppm	0.5018 ppm	0.4970 ppm	0.4840 ppm	0.5143 ppm	4.9858 ppm	0.4700 ppm
Concentration per Run 3	0.4976 ppm	0.4994 ppm	0.4973 ppm	0.4818 ppm	0.5109 ppm	5.0601 ppm	0.4743 ppm
Recovery Percentage 1	100.323 %	100.790 %	99.999 %	97.114 %	102.792 %	100.822 %	94.587 %
Concentration RSD	1.3 %	1.2 %	1.0 %	1.0 %	0.6 %	1.0 %	0.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4930 ppm	0.4963 ppm	0.4893 ppm	9.9354 ppm	0.5052 ppm	0.4935 ppm	0.4899 ppm
Concentration per Run 1	0.5012 ppm	0.4980 ppm	0.4931 ppm	9.9496 ppm	0.5112 ppm	0.4943 ppm	0.4971 ppm
Concentration per Run 2	0.4886 ppm	0.4966 ppm	0.4860 ppm	9.9744 ppm	0.5000 ppm	0.4932 ppm	0.4873 ppm
Concentration per Run 3	0.4894 ppm	0.4942 ppm	0.4887 ppm	9.8822 ppm	0.5045 ppm	0.4928 ppm	0.4854 ppm
Recovery Percentage 1	98.607 %	99.251 %	97.856 %	99.354 %	101.046 %	98.692 %	97.983 %
Concentration RSD	1.4 %	0.4 %	0.7 %	0.5 %	1.1 %	0.2 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4916 ppm	5.5002 ppm	0.4818 ppm	0.4847 ppm	0.5031 ppm	0.4859 ppm	0.5026 ppm
Concentration per Run 1	0.4930 ppm	5.5545 ppm	0.4901 ppm	0.4876 ppm	0.5080 ppm	0.4861 ppm	0.5093 ppm
Concentration per Run 2	0.4905 ppm	5.4683 ppm	0.4752 ppm	0.4848 ppm	0.5013 ppm	0.4854 ppm	0.5002 ppm
Concentration per Run 3	0.4913 ppm	5.4779 ppm	0.4800 ppm	0.4819 ppm	0.5000 ppm	0.4861 ppm	0.4984 ppm
Recovery Percentage 1	98.318 %	104.766 %	96.350 %	96.949 %	100.623 %	97.177 %	100.521 %
Concentration RSD	0.3 %	0.9 %	1.6 %	0.6 %	0.9 %	0.1 %	1.2 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5011 ppm	97.8705 %	104.2387 %	98.3756 %	95.1715 %	102.5591 %	97.4400 %
Concentration per Run 1	0.5073 ppm	96.3787 %	104.2557 %	98.8735 %	94.2091 %	102.9699 %	97.8084 %
Concentration per Run 2	0.4962 ppm	98.5668 %	103.0146 %	98.5038 %	95.8147 %	101.1298 %	97.5450 %
Concentration per Run 3	0.4999 ppm	98.6659 %	105.4457 %	97.7493 %	95.4907 %	103.5775 %	96.9665 %
Recovery Percentage 1	100.228 %						
Concentration RSD	1.1 %	1.3 %	1.2 %	0.6 %	0.9 %	1.2 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 3:27:26 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0088 ppm	0.0009 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 1	-0.0002 ppm	-0.0036 ppm	-0.0001 ppm	-0.0009 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0112 ppm	0.0022 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run 3	0.0002 ppm	-0.0114 ppm	0.0005 ppm	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	0.186 %	-8.766 %	29.218 %	0.692 %	-1.312 %	-0.494 %	1.510 %
Concentration RSD	1,391.3 %	50.8 %	135.5 %	557.2 %	32.8 %	101.2 %	144.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0052 ppm	-0.0531 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0004 ppm	0.0004 ppm	0.0009 ppm	0.0042 ppm	-0.0390 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0062 ppm	-0.0626 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0010 ppm	0.0052 ppm	-0.0578 ppm	0.0015 ppm
Recovery Percentage 1	1.248 %	0.801 %	2.687 %	7.879 %	10.411 %	-2.126 %	7.747 %
Concentration RSD	86.7 %	241.3 %	63.8 %	41.2 %	19.9 %	23.5 %	86.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0010 ppm	0.0001 ppm	0.0017 ppm	-0.0125 ppm	-0.0001 ppm	0.0003 ppm	-0.0011 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0012 ppm	-0.0144 ppm	-0.0001 ppm	0.0005 ppm	-0.0018 ppm
Concentration per Run 2	-0.0016 ppm	0.0002 ppm	0.0020 ppm	-0.0123 ppm	0.0005 ppm	0.0004 ppm	-0.0018 ppm
Concentration per Run 3	-0.0014 ppm	0.0003 ppm	0.0018 ppm	-0.0107 ppm	-0.0006 ppm	-0.0001 ppm	0.0003 ppm
Recovery Percentage 1	-1.036 %	1.413 %	3.310 %	-0.623 %	-0.272 %	2.721 %	-2.115 %
Concentration RSD	80.9 %	124.1 %	23.2 %	14.6 %	775.3 %	112.1 %	113.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0017 ppm	0.0080 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0021 ppm	0.0101 ppm	0.0005 ppm	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0005 ppm	0.0073 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm	0.0005 ppm
Concentration per Run 3	0.0026 ppm	0.0066 ppm	-0.0011 ppm	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0002 ppm
Recovery Percentage 1	17.249 %	1.595 %	-0.444 %	-0.545 %	0.777 %	1.345 %	2.968 %
Concentration RSD	62.6 %	23.7 %	365.1 %	132.1 %	284.9 %	219.3 %	60.9 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	94.0567 %	102.1408 %	96.7341 %	95.1897 %	102.7904 %	97.9263 %
Concentration per Run 1	0.0010 ppm	92.9110 %	101.6828 %	97.2318 %	95.0484 %	102.9255 %	98.7747 %
Concentration per Run 2	0.0008 ppm	94.0747 %	102.6442 %	96.2072 %	94.9380 %	103.1207 %	97.4158 %
Concentration per Run 3	0.0006 ppm	95.1844 %	102.0955 %	96.7632 %	95.5828 %	102.3251 %	97.5882 %
Recovery Percentage 1	16.167 %						
Concentration RSD	19.3 %	1.2 %	0.5 %	0.5 %	0.4 %	0.4 %	0.8 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975357-1 WG1975357
Analysis started at: 9/25/2024 3:38:36 PM
Rack 2
Vial 35
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0058 ppm	0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0200 ppm
Concentration per Run 1	0.0001 ppm	-0.0108 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0197 ppm
Concentration per Run 2	-0.0001 ppm	-0.0084 ppm	0.0007 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0215 ppm
Concentration per Run 3	-0.0005 ppm	0.0016 ppm	-0.0006 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0189 ppm
Recovery Percentage 1	-2.855 %	-5.849 %	6.551 %	0.553 %	-0.537 %	-0.028 %	20.016 %
Concentration RSD	154.8 %	112.7 %	368.2 %	233.3 %	71.2 %	2,438.2 %	6.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0216 ppm	-0.0287 ppm	0.0007 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0006 ppm	-0.0004 ppm	0.0219 ppm	-0.0034 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	-0.0001 ppm	0.0213 ppm	-0.0454 ppm	0.0016 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0002 ppm	-0.0003 ppm	0.0217 ppm	-0.0371 ppm	0.0005 ppm
Recovery Percentage 1	0.212 %	0.027 %	-3.617 %	-2.622 %	43.256 %	-1.147 %	6.574 %
Concentration RSD	99.1 %	2,040.9 %	66.3 %	68.2 %	1.4 %	77.6 %	131.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.0028 ppm	0.0002 ppm	0.0003 ppm	-0.0090 ppm	0.0008 ppm	0.0001 ppm	-0.0013 ppm
Concentration per Run 1	0.0028 ppm	0.0002 ppm	0.0005 ppm	-0.0072 ppm	0.0007 ppm	0.0001 ppm	-0.0018 ppm
Concentration per Run 2	0.0034 ppm	0.0003 ppm	0.0004 ppm	-0.0118 ppm	0.0011 ppm	0.0004 ppm	-0.0029 ppm
Concentration per Run 3	0.0021 ppm	0.0001 ppm	0.0000 ppm	-0.0081 ppm	0.0008 ppm	-0.0001 ppm	0.0008 ppm
Recovery Percentage 1	2.806 %	2.277 %	0.551 %	-0.452 %	3.362 %	1.447 %	-2.528 %
Concentration RSD	23.2 %	38.6 %	100.9 %	26.9 %	25.0 %	189.3 %	151.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0014 ppm	0.0113 ppm	-0.0012 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm
Concentration per Run 1	0.0018 ppm	0.0118 ppm	-0.0018 ppm	0.0001 ppm	0.0002 ppm	0.0014 ppm	0.0002 ppm
Concentration per Run 2	-0.0002 ppm	0.0073 ppm	-0.0009 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0024 ppm	0.0147 ppm	-0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	13.599 %	2.255 %	-2.471 %	1.354 %	2.565 %	2.381 %	0.900 %
Concentration RSD	100.0 %	33.0 %	38.2 %	9.4 %	27.1 %	163.0 %	169.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	116.8957 %	107.3309 %	108.1611 %	103.9531 %	104.1747 %	103.3249 %
Concentration per Run 1	0.0014 ppm	119.4751 %	106.2721 %	108.9134 %	103.8921 %	103.1851 %	103.2410 %
Concentration per Run 2	0.0016 ppm	116.8058 %	108.1367 %	108.0610 %	104.0390 %	104.8049 %	103.4566 %
Concentration per Run 3	0.0016 ppm	114.4062 %	107.5838 %	107.5089 %	103.9281 %	104.5341 %	103.2771 %
Recovery Percentage 1	30.519 %						
Concentration RSD	7.4 %	2.2 %	0.9 %	0.7 %	0.1 %	0.8 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975357-2D2 WG1975357
Analysis started at: 9/25/2024 3:42:57 PM
Rack 2
Vial 36
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0551 ppm	2.1711 ppm	0.1240 ppm	1.0445 ppm	2.1984 ppm	0.0567 ppm	10.9082 ppm
Concentration per Run 1	0.0553 ppm	2.1914 ppm	0.1240 ppm	1.0489 ppm	2.2096 ppm	0.0570 ppm	10.9161 ppm
Concentration per Run 2	0.0550 ppm	2.1564 ppm	0.1238 ppm	1.0459 ppm	2.1973 ppm	0.0567 ppm	10.9465 ppm
Concentration per Run 3	0.0550 ppm	2.1656 ppm	0.1243 ppm	1.0386 ppm	2.1883 ppm	0.0564 ppm	10.8620 ppm
Concentration RSD	0.2 %	0.8 %	0.2 %	0.5 %	0.5 %	0.5 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0569 ppm	0.5512 ppm	0.2212 ppm	0.2797 ppm	1.1245 ppm	10.7534 ppm	0.0000 ppm
Concentration per Run 1	0.0572 ppm	0.5533 ppm	0.2213 ppm	0.2816 ppm	1.1321 ppm	10.8827 ppm	0.0002 ppm
Concentration per Run 2	0.0572 ppm	0.5521 ppm	0.2218 ppm	0.2789 ppm	1.1215 ppm	10.7447 ppm	0.0008 ppm
Concentration per Run 3	0.0564 ppm	0.5482 ppm	0.2205 ppm	0.2785 ppm	1.1200 ppm	10.6329 ppm	-0.0009 ppm
Concentration RSD	0.8 %	0.5 %	0.3 %	0.6 %	0.6 %	1.2 %	2,216.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	10.7248 ppm	0.5572 ppm	1.0925 ppm	10.8877 ppm	0.5551 ppm	0.5788 ppm	0.5435 ppm
Concentration per Run 1	10.7743 ppm	0.5593 ppm	1.0925 ppm	10.9126 ppm	0.5550 ppm	0.5774 ppm	0.5425 ppm
Concentration per Run 2	10.7591 ppm	0.5584 ppm	1.0934 ppm	10.8695 ppm	0.5559 ppm	0.5795 ppm	0.5427 ppm
Concentration per Run 3	10.6409 ppm	0.5540 ppm	1.0915 ppm	10.8810 ppm	0.5543 ppm	0.5795 ppm	0.5452 ppm
Concentration RSD	0.7 %	0.5 %	0.1 %	0.2 %	0.1 %	0.2 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1290 ppm	0.8404 ppm	1.0422 ppm	1.0430 ppm	1.0919 ppm	0.1263 ppm	0.5646 ppm
Concentration per Run 1	0.1271 ppm	0.8418 ppm	1.0402 ppm	1.0467 ppm	1.0943 ppm	0.1260 ppm	0.5665 ppm
Concentration per Run 2	0.1299 ppm	0.8403 ppm	1.0477 ppm	1.0438 ppm	1.0938 ppm	0.1266 ppm	0.5662 ppm
Concentration per Run 3	0.1299 ppm	0.8392 ppm	1.0386 ppm	1.0385 ppm	1.0876 ppm	0.1263 ppm	0.5612 ppm
Concentration RSD	1.2 %	0.2 %	0.5 %	0.4 %	0.3 %	0.2 %	0.5 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5540 ppm	98.1063 %	104.4467 %	95.7130 %	94.6262 %	102.6454 %	95.8066 %
Concentration per Run 1	0.5551 ppm	97.7745 %	103.9134 %	96.0493 %	94.5493 %	101.9345 %	95.9026 %
Concentration per Run 2	0.5563 ppm	97.7426 %	104.4955 %	95.4327 %	94.3322 %	102.7754 %	95.8021 %
Concentration per Run 3	0.5507 ppm	98.8019 %	104.9311 %	95.6570 %	94.9972 %	103.2262 %	95.7152 %
Concentration RSD	0.5 %	0.6 %	0.5 %	0.3 %	0.4 %	0.6 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453716-01D2 WG1975357
Analysis started at: 9/25/2024 3:46:57 PM
Rack 2
Vial 42
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0014 ppm	57.3336 ppm	0.0753 ppm	0.0255 ppm	0.6296 ppm	0.0038 ppm	18.0388 ppm
Concentration per Run 1	0.0014 ppm	57.3826 ppm	0.0784 ppm	0.0251 ppm	0.6316 ppm	0.0039 ppm	18.0919 ppm
Concentration per Run 2	0.0013 ppm	57.2492 ppm	0.0733 ppm	0.0259 ppm	0.6277 ppm	0.0038 ppm	17.9996 ppm
Concentration per Run 3	0.0016 ppm	57.3688 ppm	0.0741 ppm	0.0255 ppm	0.6296 ppm	0.0038 ppm	18.0249 ppm
Concentration RSD	11.6 %	0.1 %	3.6 %	1.6 %	0.3 %	1.3 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0071 ppm	0.0996 ppm	0.2416 ppm	0.7533 ppm	158.8259 ppm	5.4505 ppm	0.0998 ppm
Concentration per Run 1	0.0073 ppm	0.1011 ppm	0.2446 ppm	0.7715 ppm	159.1111 ppm	5.4841 ppm	0.0988 ppm
Concentration per Run 2	0.0069 ppm	0.0992 ppm	0.2411 ppm	0.7480 ppm	158.6458 ppm	5.4215 ppm	0.0999 ppm
Concentration per Run 3	0.0070 ppm	0.0986 ppm	0.2390 ppm	0.7404 ppm	158.7208 ppm	5.4458 ppm	0.1006 ppm
Concentration RSD	2.4 %	1.3 %	1.2 %	2.2 %	0.2 %	0.6 %	0.9 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	26.4212 ppm	3.0508 ppm	0.0303 ppm	1.8110 ppm	0.3903 ppm	2.1004 ppm	0.0383 ppm
Concentration per Run 1	26.9564 ppm	3.0569 ppm	0.0301 ppm	1.8130 ppm	0.3970 ppm	2.1199 ppm	0.0375 ppm
Concentration per Run 2	26.2241 ppm	3.0440 ppm	0.0302 ppm	1.8037 ppm	0.3895 ppm	2.0943 ppm	0.0401 ppm
Concentration per Run 3	26.0832 ppm	3.0514 ppm	0.0306 ppm	1.8163 ppm	0.3843 ppm	2.0870 ppm	0.0373 ppm
Concentration RSD	1.8 %	0.2 %	1.0 %	0.4 %	1.6 %	0.8 %	4.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0036 ppm	1.3213 ppm	0.2958 ppm	0.1393 ppm	4.2835 ppm	0.0019 ppm	0.3642 ppm
Concentration per Run 1	0.0042 ppm	1.3605 ppm	0.3002 ppm	0.1400 ppm	4.3494 ppm	0.0023 ppm	0.3722 ppm
Concentration per Run 2	0.0019 ppm	1.3043 ppm	0.2955 ppm	0.1395 ppm	4.2985 ppm	0.0024 ppm	0.3620 ppm
Concentration per Run 3	0.0046 ppm	1.2990 ppm	0.2919 ppm	0.1386 ppm	4.2025 ppm	0.0011 ppm	0.3582 ppm
Concentration RSD	41.3 %	2.6 %	1.4 %	0.5 %	1.7 %	38.1 %	2.0 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	2.4977 ppm	99.9555 %	110.2588 %	92.9740 %	109.8392 %	123.9567 %	112.3983 %
Concentration per Run 1	2.5249 ppm	98.9222 %	109.7260 %	92.4683 %	109.5130 %	123.6943 %	112.4777 %
Concentration per Run 2	2.4936 ppm	100.3014 %	110.1579 %	92.8908 %	110.0645 %	123.7513 %	111.7403 %
Concentration per Run 3	2.4747 ppm	100.6428 %	110.8925 %	93.5629 %	109.9400 %	124.4246 %	112.9770 %
Concentration RSD	1.0 %	0.9 %	0.5 %	0.6 %	0.3 %	0.3 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453716-02D2 WG1975357
Analysis started at: 9/25/2024 3:50:55 PM
Rack 2
Vial 43
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0025 ppm	97.7342 ppm	0.0873 ppm	0.0201 ppm	1.1134 ppm	0.0066 ppm	14.6837 ppm
Concentration per Run 1	0.0026 ppm	98.1122 ppm	0.0881 ppm	0.0216 ppm	1.1154 ppm	0.0066 ppm	14.7134 ppm
Concentration per Run 2	0.0025 ppm	97.6586 ppm	0.0874 ppm	0.0194 ppm	1.1146 ppm	0.0066 ppm	14.6440 ppm
Concentration per Run 3	0.0024 ppm	97.4318 ppm	0.0864 ppm	0.0194 ppm	1.1101 ppm	0.0066 ppm	14.6939 ppm
Concentration RSD	3.4 %	0.4 %	1.0 %	6.2 %	0.3 %	0.3 %	0.2 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0047 ppm	0.0608 ppm	0.1279 ppm	0.5164 ppm	151.7769 ppm	4.6469 ppm	0.1090 ppm
Concentration per Run 1	0.0048 ppm	0.0614 ppm	0.1286 ppm	0.5184 ppm	152.0456 ppm	4.6943 ppm	0.1116 ppm
Concentration per Run 2	0.0047 ppm	0.0611 ppm	0.1275 ppm	0.5148 ppm	151.7640 ppm	4.6425 ppm	0.1082 ppm
Concentration per Run 3	0.0047 ppm	0.0600 ppm	0.1275 ppm	0.5160 ppm	151.5213 ppm	4.6040 ppm	0.1072 ppm
Concentration RSD	0.7 %	1.2 %	0.5 %	0.4 %	0.2 %	1.0 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	22.3098 ppm	5.1228 ppm	0.0089 ppm	2.4689 ppm	0.1547 ppm	1.0543 ppm	0.0440 ppm
Concentration per Run 1	22.4802 ppm	5.1385 ppm	0.0091 ppm	2.4834 ppm	0.1555 ppm	1.0580 ppm	0.0463 ppm
Concentration per Run 2	22.2448 ppm	5.1144 ppm	0.0090 ppm	2.4767 ppm	0.1548 ppm	1.0559 ppm	0.0413 ppm
Concentration per Run 3	22.2046 ppm	5.1156 ppm	0.0086 ppm	2.4466 ppm	0.1538 ppm	1.0489 ppm	0.0444 ppm
Concentration RSD	0.7 %	0.3 %	3.1 %	0.8 %	0.6 %	0.4 %	5.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0063 ppm	1.7979 ppm	0.0723 ppm	0.1385 ppm	1.0530 ppm	0.0011 ppm	0.2048 ppm
Concentration per Run 1	0.0079 ppm	1.8168 ppm	0.0725 ppm	0.1384 ppm	1.0581 ppm	0.0022 ppm	0.2057 ppm
Concentration per Run 2	0.0046 ppm	1.7893 ppm	0.0723 ppm	0.1387 ppm	1.0495 ppm	-0.0002 ppm	0.2041 ppm
Concentration per Run 3	0.0063 ppm	1.7875 ppm	0.0720 ppm	0.1383 ppm	1.0513 ppm	0.0013 ppm	0.2046 ppm
Concentration RSD	26.8 %	0.9 %	0.3 %	0.2 %	0.4 %	111.0 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0138 ppm	97.8973 %	107.9242 %	94.1559 %	122.7382 %	138.9272 %	126.8763 %
Concentration per Run 1	1.0251 ppm	96.7939 %	107.3872 %	94.0051 %	121.8602 %	138.4236 %	126.7659 %
Concentration per Run 2	1.0096 ppm	98.1525 %	108.8551 %	94.2557 %	122.5404 %	139.9753 %	126.9795 %
Concentration per Run 3	1.0066 ppm	98.7456 %	107.5303 %	94.2069 %	123.8141 %	138.3828 %	126.8836 %
Concentration RSD	1.0 %	1.0 %	0.7 %	0.1 %	0.8 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2453716-03D2 WG1975357
Analysis started at: 9/25/2024 3:54:53 PM
Rack 2
Vial 44
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0003 ppm	27.1875 ppm	0.0940 ppm	0.1488 ppm	0.5738 ppm	0.0030 ppm	36.7011 ppm
Concentration per Run 1	0.0001 ppm	27.1465 ppm	0.0926 ppm	0.1485 ppm	0.5750 ppm	0.0030 ppm	36.7129 ppm
Concentration per Run 2	0.0003 ppm	27.1182 ppm	0.0964 ppm	0.1498 ppm	0.5742 ppm	0.0030 ppm	36.5073 ppm
Concentration per Run 3	0.0005 ppm	27.2979 ppm	0.0929 ppm	0.1481 ppm	0.5720 ppm	0.0030 ppm	36.8830 ppm
Concentration RSD	72.0 %	0.4 %	2.2 %	0.6 %	0.3 %	0.9 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0019 ppm	0.1178 ppm	0.1273 ppm	1.0084 ppm	187.8929 ppm	2.6850 ppm	0.0462 ppm
Concentration per Run 1	0.0020 ppm	0.1176 ppm	0.1274 ppm	1.0130 ppm	188.6107 ppm	2.7114 ppm	0.0459 ppm
Concentration per Run 2	0.0018 ppm	0.1188 ppm	0.1280 ppm	1.0010 ppm	186.9025 ppm	2.6730 ppm	0.0475 ppm
Concentration per Run 3	0.0019 ppm	0.1171 ppm	0.1265 ppm	1.0112 ppm	188.1656 ppm	2.6705 ppm	0.0452 ppm
Concentration RSD	4.3 %	0.8 %	0.6 %	0.6 %	0.5 %	0.9 %	2.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	16.1472 ppm	2.9849 ppm	0.0346 ppm	2.3429 ppm	0.4209 ppm	1.1410 ppm	0.0130 ppm
Concentration per Run 1	16.1628 ppm	2.9855 ppm	0.0344 ppm	2.3419 ppm	0.4206 ppm	1.1421 ppm	0.0149 ppm
Concentration per Run 2	16.2574 ppm	2.9689 ppm	0.0348 ppm	2.3351 ppm	0.4237 ppm	1.1418 ppm	0.0123 ppm
Concentration per Run 3	16.0215 ppm	3.0004 ppm	0.0345 ppm	2.3517 ppm	0.4182 ppm	1.1390 ppm	0.0117 ppm
Concentration RSD	0.7 %	0.5 %	0.6 %	0.4 %	0.7 %	0.1 %	13.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0148 ppm	1.2317 ppm	0.0674 ppm	0.2174 ppm	1.3214 ppm	0.0005 ppm	0.2805 ppm
Concentration per Run 1	0.0134 ppm	1.2417 ppm	0.0673 ppm	0.2184 ppm	1.3308 ppm	0.0014 ppm	0.2816 ppm
Concentration per Run 2	0.0172 ppm	1.2253 ppm	0.0681 ppm	0.2160 ppm	1.3201 ppm	-0.0001 ppm	0.2813 ppm
Concentration per Run 3	0.0137 ppm	1.2281 ppm	0.0669 ppm	0.2178 ppm	1.3134 ppm	0.0002 ppm	0.2785 ppm
Concentration RSD	14.5 %	0.7 %	0.9 %	0.6 %	0.7 %	162.9 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6535 ppm	98.4207 %	110.0108 %	93.6743 %	103.7048 %	118.5150 %	106.1300 %
Concentration per Run 1	0.6526 ppm	98.5723 %	109.4227 %	93.7127 %	103.8989 %	118.0009 %	106.2598 %
Concentration per Run 2	0.6590 ppm	97.3747 %	111.3322 %	93.4984 %	102.4630 %	119.4141 %	106.0136 %
Concentration per Run 3	0.6490 ppm	99.3150 %	109.2776 %	93.8120 %	104.7525 %	118.1301 %	106.1166 %
Concentration RSD	0.8 %	1.0 %	1.0 %	0.2 %	1.1 %	0.7 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: L2452082-01D2 WG1975357
Analysis started at: 9/25/2024 3:58:51 PM
Rack 2
Vial 37
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0002 ppm	100.4270 ppm	0.1796 ppm	0.0359 ppm	0.6755 ppm	0.0036 ppm	13.4103 ppm
Concentration per Run 1	0.0005 ppm	100.3430 ppm	0.1814 ppm	0.0375 ppm	0.6749 ppm	0.0036 ppm	13.3839 ppm
Concentration per Run 2	-0.0005 ppm	100.1918 ppm	0.1790 ppm	0.0366 ppm	0.6768 ppm	0.0036 ppm	13.4872 ppm
Concentration per Run 3	0.0007 ppm	100.7463 ppm	0.1784 ppm	0.0336 ppm	0.6748 ppm	0.0036 ppm	13.3598 ppm
Concentration RSD	271.2 %	0.3 %	0.9 %	5.7 %	0.2 %	1.0 %	0.5 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0008 ppm	0.1743 ppm	0.2632 ppm	0.3229 ppm	332.7882 ppm	6.5222 ppm	0.1933 ppm
Concentration per Run 1	0.0009 ppm	0.1735 ppm	0.2643 ppm	0.3236 ppm	332.8797 ppm	6.6050 ppm	0.1979 ppm
Concentration per Run 2	0.0007 ppm	0.1743 ppm	0.2627 ppm	0.3214 ppm	333.0392 ppm	6.4778 ppm	0.1911 ppm
Concentration per Run 3	0.0008 ppm	0.1750 ppm	0.2627 ppm	0.3235 ppm	332.4456 ppm	6.4837 ppm	0.1909 ppm
Concentration RSD	13.0 %	0.4 %	0.3 %	0.4 %	0.1 %	1.1 %	2.1 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	37.4646 ppm	4.0220 ppm	0.0245 ppm	11.6166 ppm	0.3606 ppm	0.0988 ppm	0.0063 ppm
Concentration per Run 1	37.5339 ppm	4.0216 ppm	0.0249 ppm	11.5388 ppm	0.3611 ppm	0.0987 ppm	0.0065 ppm
Concentration per Run 2	37.4069 ppm	4.0286 ppm	0.0245 ppm	11.5861 ppm	0.3604 ppm	0.1001 ppm	0.0065 ppm
Concentration per Run 3	37.4529 ppm	4.0158 ppm	0.0241 ppm	11.7249 ppm	0.3603 ppm	0.0974 ppm	0.0059 ppm
Concentration RSD	0.2 %	0.2 %	1.5 %	0.8 %	0.1 %	1.4 %	6.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0003 ppm	3.6918 ppm	0.0056 ppm	0.1389 ppm	0.8647 ppm	0.0020 ppm	0.1832 ppm
Concentration per Run 1	-0.0006 ppm	3.7168 ppm	0.0053 ppm	0.1402 ppm	0.8668 ppm	0.0004 ppm	0.1828 ppm
Concentration per Run 2	-0.0001 ppm	3.6797 ppm	0.0059 ppm	0.1382 ppm	0.8650 ppm	0.0017 ppm	0.1840 ppm
Concentration per Run 3	0.0016 ppm	3.6788 ppm	0.0056 ppm	0.1383 ppm	0.8624 ppm	0.0038 ppm	0.1828 ppm
Concentration RSD	377.9 %	0.6 %	5.5 %	0.8 %	0.3 %	87.6 %	0.4 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7233 ppm	99.2877 %	106.5095 %	92.4469 %	113.5728 %	125.0932 %	115.8133 %
Concentration per Run 1	0.7248 ppm	99.2924 %	106.1430 %	92.4261 %	114.1982 %	125.4031 %	115.7437 %
Concentration per Run 2	0.7211 ppm	99.2552 %	105.3941 %	92.2556 %	113.1746 %	122.9863 %	115.9842 %
Concentration per Run 3	0.7241 ppm	99.3155 %	107.9913 %	92.6591 %	113.3456 %	126.8904 %	115.7119 %
Concentration RSD	0.3 %	0.0 %	1.3 %	0.2 %	0.5 %	1.6 %	0.1 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975357-3D2 WG1975357
Analysis started at: 9/25/2024 4:02:52 PM
Rack 2
Vial 38
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0521 ppm	101.8984 ppm	0.2848 ppm	0.9489 ppm	2.1163 ppm	0.0549 ppm	23.8995 ppm
Concentration per Run 1	0.0523 ppm	102.3007 ppm	0.2875 ppm	0.9485 ppm	2.1091 ppm	0.0556 ppm	24.0774 ppm
Concentration per Run 2	0.0522 ppm	102.4387 ppm	0.2859 ppm	0.9494 ppm	2.1380 ppm	0.0545 ppm	23.8377 ppm
Concentration per Run 3	0.0518 ppm	100.9558 ppm	0.2809 ppm	0.9488 ppm	2.1017 ppm	0.0547 ppm	23.7836 ppm
Concentration RSD	0.5 %	0.8 %	1.2 %	0.0 %	0.9 %	1.1 %	0.7 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0503 ppm	0.6467 ppm	0.3952 ppm	0.5333 ppm	330.0515 ppm	16.7103 ppm	0.1900 ppm
Concentration per Run 1	0.0503 ppm	0.6476 ppm	0.3958 ppm	0.5335 ppm	330.2517 ppm	16.7025 ppm	0.1908 ppm
Concentration per Run 2	0.0504 ppm	0.6458 ppm	0.3944 ppm	0.5348 ppm	332.4515 ppm	16.8554 ppm	0.1909 ppm
Concentration per Run 3	0.0503 ppm	0.6466 ppm	0.3952 ppm	0.5317 ppm	327.4512 ppm	16.5731 ppm	0.1883 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.3 %	0.8 %	0.8 %	0.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	46.6271 ppm	4.0241 ppm	0.9632 ppm	21.7354 ppm	0.7974 ppm	0.6634 ppm	0.4889 ppm
Concentration per Run 1	46.8001 ppm	4.0507 ppm	0.9550 ppm	21.5051 ppm	0.7981 ppm	0.6687 ppm	0.4897 ppm
Concentration per Run 2	46.5212 ppm	4.0219 ppm	0.9609 ppm	22.2240 ppm	0.7957 ppm	0.6646 ppm	0.4892 ppm
Concentration per Run 3	46.5600 ppm	3.9998 ppm	0.9738 ppm	21.4770 ppm	0.7983 ppm	0.6570 ppm	0.4877 ppm
Concentration RSD	0.3 %	0.6 %	1.0 %	1.9 %	0.2 %	0.9 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1171 ppm	5.1489 ppm	0.9080 ppm	1.0935 ppm	2.0146 ppm	0.1245 ppm	0.6924 ppm
Concentration per Run 1	0.1155 ppm	5.1844 ppm	0.9092 ppm	1.1065 ppm	2.0259 ppm	0.1245 ppm	0.6915 ppm
Concentration per Run 2	0.1152 ppm	5.1298 ppm	0.9050 ppm	1.0842 ppm	2.0070 ppm	0.1262 ppm	0.6951 ppm
Concentration per Run 3	0.1206 ppm	5.1326 ppm	0.9099 ppm	1.0897 ppm	2.0110 ppm	0.1228 ppm	0.6907 ppm
Concentration RSD	2.6 %	0.6 %	0.3 %	1.1 %	0.5 %	1.4 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2776 ppm	99.4892 %	107.0670 %	90.6096 %	117.3135 %	129.7553 %	118.9812 %
Concentration per Run 1	1.2840 ppm	99.4178 %	106.1969 %	90.8805 %	117.2839 %	128.8575 %	119.5399 %
Concentration per Run 2	1.2725 ppm	99.3844 %	107.8494 %	90.2360 %	117.6392 %	130.6686 %	118.5660 %
Concentration per Run 3	1.2762 ppm	99.6653 %	107.1545 %	90.7122 %	117.0175 %	129.7399 %	118.8376 %
Concentration RSD	0.5 %	0.2 %	0.8 %	0.4 %	0.3 %	0.7 %	0.4 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975357-4D2 WG1975357
Analysis started at: 9/25/2024 4:06:54 PM
Rack 2
Vial 39
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0513 ppm	100.3536 ppm	0.2386 ppm	0.9158 ppm	2.1291 ppm	0.0528 ppm	24.4595 ppm
Concentration per Run 1	0.0512 ppm	100.4752 ppm	0.2372 ppm	0.9175 ppm	2.1284 ppm	0.0525 ppm	24.3553 ppm
Concentration per Run 2	0.0517 ppm	100.5370 ppm	0.2412 ppm	0.9171 ppm	2.1279 ppm	0.0532 ppm	24.7284 ppm
Concentration per Run 3	0.0511 ppm	100.0487 ppm	0.2374 ppm	0.9129 ppm	2.1310 ppm	0.0525 ppm	24.2949 ppm
Concentration RSD	0.7 %	0.3 %	0.9 %	0.3 %	0.1 %	0.8 %	1.0 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0492 ppm	0.6100 ppm	0.3753 ppm	0.5286 ppm	311.5675 ppm	15.7159 ppm	0.1998 ppm
Concentration per Run 1	0.0491 ppm	0.6099 ppm	0.3761 ppm	0.5277 ppm	311.3910 ppm	15.8247 ppm	0.2009 ppm
Concentration per Run 2	0.0494 ppm	0.6103 ppm	0.3750 ppm	0.5304 ppm	312.5883 ppm	15.6814 ppm	0.1965 ppm
Concentration per Run 3	0.0492 ppm	0.6097 ppm	0.3748 ppm	0.5278 ppm	310.7234 ppm	15.6416 ppm	0.2020 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	0.3 %	0.3 %	0.6 %	1.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	50.3051 ppm	4.6750 ppm	0.9441 ppm	20.5561 ppm	0.7635 ppm	0.6190 ppm	0.4745 ppm
Concentration per Run 1	50.3550 ppm	4.6793 ppm	0.9383 ppm	20.6553 ppm	0.7615 ppm	0.6241 ppm	0.4726 ppm
Concentration per Run 2	50.3060 ppm	4.6895 ppm	0.9452 ppm	20.3937 ppm	0.7647 ppm	0.6197 ppm	0.4803 ppm
Concentration per Run 3	50.2542 ppm	4.6561 ppm	0.9487 ppm	20.6194 ppm	0.7643 ppm	0.6131 ppm	0.4706 ppm
Concentration RSD	0.1 %	0.4 %	0.6 %	0.7 %	0.2 %	0.9 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1147 ppm	5.7950 ppm	0.8893 ppm	1.0441 ppm	1.7563 ppm	0.1190 ppm	0.6646 ppm
Concentration per Run 1	0.1126 ppm	5.8222 ppm	0.8807 ppm	1.0429 ppm	1.7619 ppm	0.1187 ppm	0.6666 ppm
Concentration per Run 2	0.1155 ppm	5.8180 ppm	0.8971 ppm	1.0527 ppm	1.7576 ppm	0.1201 ppm	0.6638 ppm
Concentration per Run 3	0.1160 ppm	5.7447 ppm	0.8900 ppm	1.0369 ppm	1.7495 ppm	0.1182 ppm	0.6635 ppm
Concentration RSD	1.6 %	0.8 %	0.9 %	0.8 %	0.4 %	0.8 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1210 ppm	98.5637 %	107.0037 %	90.5341 %	112.4240 %	125.6445 %	114.4451 %
Concentration per Run 1	1.1167 ppm	98.5295 %	107.4114 %	90.0058 %	112.4906 %	125.4824 %	113.8602 %
Concentration per Run 2	1.1273 ppm	98.4518 %	105.4189 %	90.9264 %	112.4081 %	124.7326 %	114.8855 %
Concentration per Run 3	1.1189 ppm	98.7098 %	108.1809 %	90.6701 %	112.3733 %	126.7184 %	114.5896 %
Concentration RSD	0.5 %	0.1 %	1.3 %	0.5 %	0.1 %	0.8 %	0.5 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975357-5D2 WG1975357
Analysis started at: 9/25/2024 4:10:53 PM
Rack 2
Vial 40
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0485 ppm	94.9862 ppm	0.2861 ppm	0.9356 ppm	2.5033 ppm	0.0526 ppm	21.8605 ppm
Concentration per Run 1	0.0483 ppm	94.9206 ppm	0.2878 ppm	0.9354 ppm	2.5142 ppm	0.0526 ppm	21.8344 ppm
Concentration per Run 2	0.0485 ppm	94.9934 ppm	0.2869 ppm	0.9359 ppm	2.5022 ppm	0.0529 ppm	21.8633 ppm
Concentration per Run 3	0.0488 ppm	95.0445 ppm	0.2837 ppm	0.9355 ppm	2.4936 ppm	0.0523 ppm	21.8837 ppm
Concentration RSD	0.5 %	0.1 %	0.8 %	0.0 %	0.4 %	0.6 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0482 ppm	0.6134 ppm	0.4267 ppm	0.5426 ppm	311.5183 ppm	15.6299 ppm	0.1821 ppm
Concentration per Run 1	0.0481 ppm	0.6148 ppm	0.4261 ppm	0.5430 ppm	312.5480 ppm	15.6067 ppm	0.1831 ppm
Concentration per Run 2	0.0485 ppm	0.6140 ppm	0.4276 ppm	0.5425 ppm	311.5869 ppm	15.7085 ppm	0.1832 ppm
Concentration per Run 3	0.0481 ppm	0.6115 ppm	0.4263 ppm	0.5425 ppm	310.4201 ppm	15.5746 ppm	0.1801 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %	0.1 %	0.3 %	0.4 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	43.6790 ppm	4.1906 ppm	0.9420 ppm	20.1944 ppm	0.7890 ppm	0.6171 ppm	0.4618 ppm
Concentration per Run 1	43.7131 ppm	4.1992 ppm	0.9335 ppm	20.2102 ppm	0.7898 ppm	0.6178 ppm	0.4669 ppm
Concentration per Run 2	43.7342 ppm	4.1795 ppm	0.9426 ppm	20.2655 ppm	0.7887 ppm	0.6152 ppm	0.4565 ppm
Concentration per Run 3	43.5896 ppm	4.1929 ppm	0.9499 ppm	20.1076 ppm	0.7885 ppm	0.6184 ppm	0.4622 ppm
Concentration RSD	0.2 %	0.2 %	0.9 %	0.4 %	0.1 %	0.3 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.1187 ppm	3.8799 ppm	0.9000 ppm	1.0757 ppm	1.7363 ppm	0.1185 ppm	0.6413 ppm
Concentration per Run 1	0.1160 ppm	3.8887 ppm	0.8995 ppm	1.0778 ppm	1.7366 ppm	0.1169 ppm	0.6426 ppm
Concentration per Run 2	0.1181 ppm	3.8761 ppm	0.9007 ppm	1.0769 ppm	1.7349 ppm	0.1173 ppm	0.6395 ppm
Concentration per Run 3	0.1219 ppm	3.8751 ppm	0.8997 ppm	1.0724 ppm	1.7374 ppm	0.1213 ppm	0.6419 ppm
Concentration RSD	2.5 %	0.2 %	0.1 %	0.3 %	0.1 %	2.0 %	0.3 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1219 ppm	98.6322 %	105.0566 %	90.5691 %	111.1511 %	122.1907 %	112.5938 %
Concentration per Run 1	1.1210 ppm	98.8932 %	104.9392 %	90.4855 %	111.8734 %	121.8695 %	112.7249 %
Concentration per Run 2	1.1243 ppm	98.2303 %	104.8284 %	90.9607 %	110.0441 %	122.2874 %	113.2230 %
Concentration per Run 3	1.1203 ppm	98.7730 %	105.4020 %	90.2611 %	111.5360 %	122.4152 %	111.8335 %
Concentration RSD	0.2 %	0.4 %	0.3 %	0.4 %	0.9 %	0.2 %	0.6 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: WG1975357-6D10 WG1975357
Analysis started at: 9/25/2024 4:14:52 PM
Rack 2
Vial 41
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	21.1795 ppm	0.0356 ppm	0.0088 ppm	0.1415 ppm	0.0007 ppm	2.8125 ppm
Concentration per Run 1	0.0003 ppm	21.0718 ppm	0.0357 ppm	0.0095 ppm	0.1409 ppm	0.0007 ppm	2.8093 ppm
Concentration per Run 2	-0.0001 ppm	21.0490 ppm	0.0352 ppm	0.0093 ppm	0.1397 ppm	0.0008 ppm	2.8221 ppm
Concentration per Run 3	0.0000 ppm	21.4177 ppm	0.0360 ppm	0.0076 ppm	0.1440 ppm	0.0007 ppm	2.8063 ppm
Concentration RSD	443.0 %	1.0 %	1.1 %	11.6 %	1.6 %	8.4 %	0.3 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0001 ppm	0.0374 ppm	0.0552 ppm	0.0658 ppm	75.1511 ppm	1.3544 ppm	0.0413 ppm
Concentration per Run 1	0.0000 ppm	0.0372 ppm	0.0558 ppm	0.0666 ppm	75.1548 ppm	1.3858 ppm	0.0417 ppm
Concentration per Run 2	0.0002 ppm	0.0375 ppm	0.0547 ppm	0.0657 ppm	74.3321 ppm	1.3246 ppm	0.0409 ppm
Concentration per Run 3	0.0001 ppm	0.0373 ppm	0.0550 ppm	0.0653 ppm	75.9665 ppm	1.3528 ppm	0.0411 ppm
Concentration RSD	114.1 %	0.4 %	1.0 %	1.0 %	1.1 %	2.3 %	1.0 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	7.9495 ppm	0.8627 ppm	0.0077 ppm	2.4589 ppm	0.0773 ppm	0.0198 ppm	0.0000 ppm
Concentration per Run 1	8.0147 ppm	0.8623 ppm	0.0078 ppm	2.4361 ppm	0.0775 ppm	0.0202 ppm	-0.0006 ppm
Concentration per Run 2	7.9377 ppm	0.8622 ppm	0.0077 ppm	2.4347 ppm	0.0776 ppm	0.0190 ppm	0.0021 ppm
Concentration per Run 3	7.8961 ppm	0.8638 ppm	0.0076 ppm	2.5058 ppm	0.0767 ppm	0.0200 ppm	-0.0015 ppm
Concentration RSD	0.8 %	0.1 %	1.3 %	1.7 %	0.6 %	3.3 %	56,794.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0009 ppm	0.7604 ppm	0.0017 ppm	0.0288 ppm	0.1792 ppm	-0.0005 ppm	0.0381 ppm
Concentration per Run 1	0.0009 ppm	0.7731 ppm	0.0020 ppm	0.0289 ppm	0.1807 ppm	-0.0001 ppm	0.0383 ppm
Concentration per Run 2	0.0006 ppm	0.7567 ppm	0.0015 ppm	0.0289 ppm	0.1781 ppm	-0.0012 ppm	0.0378 ppm
Concentration per Run 3	0.0013 ppm	0.7513 ppm	0.0017 ppm	0.0286 ppm	0.1787 ppm	0.0000 ppm	0.0380 ppm
Concentration RSD	40.5 %	1.5 %	12.4 %	0.7 %	0.8 %	149.7 %	0.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1549 ppm	97.9027 %	104.2154 %	97.3699 %	98.8653 %	107.3218 %	101.1668 %
Concentration per Run 1	0.1555 ppm	97.3429 %	104.2257 %	97.3475 %	98.8415 %	107.3708 %	101.3686 %
Concentration per Run 2	0.1553 ppm	98.1775 %	103.3884 %	97.0266 %	99.1880 %	106.5414 %	100.7596 %
Concentration per Run 3	0.1538 ppm	98.1877 %	105.0320 %	97.7357 %	98.5663 %	108.0531 %	101.3722 %
Concentration RSD	0.6 %	0.5 %	0.8 %	0.4 %	0.3 %	0.7 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCV
Analysis started at: 9/25/2024 4:18:51 PM
Rack 0
Vial 3
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.4972 ppm	0.4785 ppm	0.4713 ppm	0.4873 ppm	0.5041 ppm	0.5185 ppm	0.4944 ppm
Concentration per Run 1	0.5003 ppm	0.4764 ppm	0.4720 ppm	0.4912 ppm	0.4996 ppm	0.5096 ppm	0.4895 ppm
Concentration per Run 2	0.4962 ppm	0.4712 ppm	0.4740 ppm	0.4873 ppm	0.4970 ppm	0.5132 ppm	0.4861 ppm
Concentration per Run 3	0.4951 ppm	0.4879 ppm	0.4680 ppm	0.4834 ppm	0.5158 ppm	0.5326 ppm	0.5077 ppm
Recovery Percentage 1	99.437 %	95.699 %	94.266 %	97.465 %	100.828 %	103.692 %	98.889 %
Concentration RSD	0.6 %	1.8 %	0.6 %	0.8 %	2.0 %	2.4 %	2.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.5017 ppm	0.5050 ppm	0.4982 ppm	0.4847 ppm	0.5145 ppm	5.0700 ppm	0.4714 ppm
Concentration per Run 1	0.5056 ppm	0.5088 ppm	0.5015 ppm	0.4873 ppm	0.5059 ppm	5.0400 ppm	0.4694 ppm
Concentration per Run 2	0.5021 ppm	0.5055 ppm	0.4990 ppm	0.4829 ppm	0.5084 ppm	4.9848 ppm	0.4664 ppm
Concentration per Run 3	0.4975 ppm	0.5008 ppm	0.4943 ppm	0.4838 ppm	0.5292 ppm	5.1852 ppm	0.4784 ppm
Recovery Percentage 1	100.347 %	100.999 %	99.649 %	96.936 %	102.906 %	101.400 %	94.282 %
Concentration RSD	0.8 %	0.8 %	0.7 %	0.5 %	2.5 %	2.0 %	1.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	0.4896 ppm	0.5023 ppm	0.4917 ppm	9.9606 ppm	0.5045 ppm	0.4918 ppm	0.4879 ppm
Concentration per Run 1	0.4910 ppm	0.4958 ppm	0.4914 ppm	9.8232 ppm	0.5068 ppm	0.4922 ppm	0.4867 ppm
Concentration per Run 2	0.4928 ppm	0.4950 ppm	0.4918 ppm	9.8434 ppm	0.5063 ppm	0.4914 ppm	0.4865 ppm
Concentration per Run 3	0.4849 ppm	0.5160 ppm	0.4918 ppm	10.2153 ppm	0.5004 ppm	0.4918 ppm	0.4904 ppm
Recovery Percentage 1	97.913 %	100.454 %	98.337 %	99.606 %	100.901 %	98.359 %	97.572 %
Concentration RSD	0.8 %	2.4 %	0.1 %	2.2 %	0.7 %	0.1 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.4867 ppm	5.4977 ppm	0.4826 ppm	0.4905 ppm	0.4985 ppm	0.4829 ppm	0.5009 ppm
Concentration per Run 1	0.4881 ppm	5.5196 ppm	0.4902 ppm	0.4870 ppm	0.5003 ppm	0.4839 ppm	0.5049 ppm
Concentration per Run 2	0.4861 ppm	5.4993 ppm	0.4842 ppm	0.4847 ppm	0.4991 ppm	0.4826 ppm	0.5001 ppm
Concentration per Run 3	0.4860 ppm	5.4742 ppm	0.4736 ppm	0.4998 ppm	0.4961 ppm	0.4823 ppm	0.4977 ppm
Recovery Percentage 1	97.343 %	104.718 %	96.529 %	98.104 %	99.697 %	96.587 %	100.178 %
Concentration RSD	0.3 %	0.4 %	1.7 %	1.7 %	0.4 %	0.2 %	0.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5018 ppm	98.0686 %	103.1263 %	98.2240 %	95.2079 %	101.5987 %	97.2071 %
Concentration per Run 1	0.5034 ppm	97.5714 %	105.5356 %	98.4093 %	95.0153 %	104.2977 %	97.3183 %
Concentration per Run 2	0.5044 ppm	97.5550 %	104.3908 %	97.8998 %	94.5879 %	102.9774 %	96.9171 %
Concentration per Run 3	0.4974 ppm	99.0793 %	99.4523 %	98.3630 %	96.0206 %	97.5210 %	97.3859 %
Recovery Percentage 1	100.351 %						
Concentration RSD	0.8 %	0.9 %	3.1 %	0.3 %	0.8 %	3.5 %	0.3 %

iCAP Pro Trace 8 Data report

9/25/2024 4:29:52 PM

LabBook: WG1975913_09252024T8.imexp

Sample: CCB
Analysis started at: 9/25/2024 4:22:49 PM
Rack 0
Vial 4
Comment <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0000 ppm	-0.0144 ppm	0.0004 ppm	0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0205 ppm	0.0008 ppm	-0.0004 ppm	-0.0002 ppm	0.0000 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	-0.0136 ppm	-0.0010 ppm	0.0010 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	-0.0002 ppm	-0.0091 ppm	0.0015 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	-0.503 %	-14.413 %	14.226 %	1.952 %	-1.126 %	-0.177 %	0.602 %
Concentration RSD	490.7 %	39.6 %	294.1 %	146.3 %	92.8 %	350.3 %	125.6 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0008 ppm	0.0060 ppm	-0.0365 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0069 ppm	-0.0548 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0009 ppm	0.0056 ppm	-0.0229 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0004 ppm	0.0007 ppm	0.0053 ppm	-0.0318 ppm	0.0011 ppm
Recovery Percentage 1	0.065 %	1.340 %	2.789 %	8.375 %	11.901 %	-1.460 %	-1.070 %
Concentration RSD	461.9 %	113.2 %	33.6 %	17.1 %	14.0 %	45.1 %	1,043.8 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0008 ppm	0.0000 ppm	0.0018 ppm	-0.0107 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run 1	-0.0021 ppm	0.0000 ppm	0.0016 ppm	-0.0067 ppm	0.0002 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 2	-0.0010 ppm	-0.0001 ppm	0.0016 ppm	-0.0124 ppm	0.0000 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 3	0.0008 ppm	0.0001 ppm	0.0022 ppm	-0.0131 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Recovery Percentage 1	-0.763 %	-0.047 %	3.620 %	-0.537 %	0.168 %	-0.551 %	-1.025 %
Concentration RSD	192.0 %	2,860.4 %	18.8 %	32.7 %	274.8 %	253.8 %	31.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0016 ppm	0.0070 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0022 ppm	0.0077 ppm	0.0002 ppm	0.0002 ppm	-0.0001 ppm	-0.0013 ppm	0.0003 ppm
Concentration per Run 2	0.0004 ppm	0.0060 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0020 ppm	0.0074 ppm	-0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0015 ppm	0.0002 ppm
Recovery Percentage 1	15.523 %	1.398 %	-0.353 %	1.249 %	0.091 %	-0.891 %	1.329 %
Concentration RSD	62.0 %	13.0 %	194.8 %	24.1 %	1,357.5 %	810.9 %	112.7 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	94.5156 %	102.5414 %	97.2195 %	95.4448 %	103.2847 %	97.9782 %
Concentration per Run 1	0.0008 ppm	93.5568 %	102.0447 %	97.3775 %	95.3232 %	103.2412 %	98.7167 %
Concentration per Run 2	0.0008 ppm	94.2214 %	103.0730 %	97.0556 %	95.3040 %	103.4721 %	98.0589 %
Concentration per Run 3	0.0007 ppm	95.7685 %	102.5064 %	97.2254 %	95.7072 %	103.1409 %	97.1590 %
Recovery Percentage 1	15.673 %						
Concentration RSD	7.4 %	1.2 %	0.5 %	0.2 %	0.2 %	0.2 %	0.8 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)
ICV/CCV	All	0.50
	K	5.00
	Na	10.00
	Si	5.25
ICSA	Al	250
	Ca	250
	Fe	100
	Mg	250
ICSB	Al	9.00
	Sb	1.00
	As	1.00
	Ba	0.30
	Be	0.10
	Bi	1.00
	B	0.50
	Cd	0.30
	Ca	45.00
	Cr	0.30
	Co	0.30
	Cu	0.30
	Fe	37.50
	Pb	1.00
	Mg	22.50
	Mn	0.20
	Mo	0.30
	Ni	0.30
	K	20.00
	Se	0.50
	Si	1.23
	Ag	0.30
	Na	7.50
	Sr	1.00
	Tl	1.00
	Sn	1.00
	Ti	1.00
	V	0.30
	Zn	0.30

	Element	True Value (mg/L)
CRI	Al	0.40
	Sb	0.10
	As	0.02
	Ba	0.04
	Be	0.01
	Bi	0.02
	B	0.10
	Cd	0.01
	Ca	0.40
	Cr	0.02
	Co	0.10
	Cu	0.05
	Fe	0.20
	Pb	0.05
	Mg	0.40
	Mn	0.03
	Mo	0.10
	Ni	0.08
	K	5.00
	Se	0.02
	Si	1.00
	Ag	0.02
	Na	5.00
	Sr	0.02
	Tl	0.02
	Sn	0.02
	Ti	0.02
	V	0.10
	Zn	0.04

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

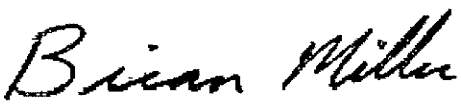
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

Sequence Trace 5

9/25/2024 12:09:29 PM

LabBook: WG1975466_09242024T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank JMF Trace5	0	1	9/24/2024 9:12:36 AM
2	ICAL	0	2	9/24/2024 9:18:55 AM
3	ICV	0	3	9/24/2024 9:24:57 AM
4	ICB	0	4	9/24/2024 9:31:00 AM
5	ICV	0	10	9/24/2024 9:37:19 AM
6	ICB	0	4	9/24/2024 9:43:25 AM
7	LLOQ RL	0	5	9/24/2024 9:49:44 AM
8	ICSA	0	6	9/24/2024 10:06:33 AM
9	xLDR 400 Fe Fail	1	1	9/24/2024 10:13:16 AM
10	LDR 800 Ca pass	1	2	9/24/2024 10:19:39 AM
11	SIC Multi	0	7	9/24/2024 10:37:57 AM
12	IEC 500 Al	1	3	9/24/2024 10:44:39 AM
13	LDR Check	0	8	9/24/2024 10:50:57 AM
14	LDR 200 K Pass	1	4	9/24/2024 11:05:28 AM
15	LDR 200 Na Pass	1	5	9/24/2024 11:11:45 AM
16	xLDR 100 Na Pass	1	6	9/24/2024 11:18:12 AM
17	LDR 20 B Pass	1	7	9/24/2024 11:24:31 AM
18	CCV	0	3	9/24/2024 11:31:27 AM
19	CCB	0	4	9/24/2024 11:37:29 AM
20	CCV	0	3	9/24/2024 11:45:43 AM
21	CCB	0	4	9/24/2024 11:51:46 AM
22	WG1975196-1 WG1975196	1	8	9/24/2024 12:03:35 PM
23	WG1975196-2 WG1975196	1	9	9/24/2024 12:09:53 PM
24	L2453342-01 WG1975196	1	15	9/24/2024 12:16:00 PM
25	L2453342-02 WG1975196	1	16	9/24/2024 12:22:13 PM
26	L2453342-03 WG1975196	1	17	9/24/2024 12:28:24 PM
27	L2453250-01 WG1975196	1	10	9/24/2024 12:34:37 PM
28	WG1975196-3 WG1975196	1	11	9/24/2024 12:40:50 PM
29	WG1975196-4 WG1975196	1	12	9/24/2024 12:47:02 PM
30	WG1975196-5 WG1975196	1	13	9/24/2024 12:53:16 PM
31	WG1975196-6D5 WG1975196	1	14	9/24/2024 12:59:18 PM
32	CCV	0	3	9/24/2024 1:05:31 PM
33	CCB	0	4	9/24/2024 1:11:33 PM
34	CCV	0	3	9/24/2024 1:17:52 PM
35	CCB	0	4	9/24/2024 1:23:54 PM
36	L2453342-04 WG1975196	1	18	9/24/2024 1:41:25 PM
37	L2453342-05 WG1975196	1	19	9/24/2024 1:47:39 PM
38	L2453342-06 WG1975196	1	20	9/24/2024 1:53:52 PM
39	L2453342-07 WG1975196	1	21	9/24/2024 2:00:08 PM
40	L2453342-08 WG1975196	1	22	9/24/2024 2:06:22 PM
41	L2453342-10 WG1975196	1	23	9/24/2024 2:12:35 PM
42	CCV	0	3	9/24/2024 2:18:53 PM
43	CCB	0	4	9/24/2024 2:24:56 PM
44	L2453311-01 WG1974743	1	24	9/24/2024 2:57:07 PM
45	L2453311-02 WG1974743	1	25	9/24/2024 3:03:20 PM
46	L2453311-03 WG1974743	1	26	9/24/2024 3:09:30 PM
47	L2453311-04 WG1974743	1	27	9/24/2024 3:15:40 PM
48	CCV	0	3	9/24/2024 3:33:26 PM
49	CCB	0	4	9/24/2024 3:39:48 PM
50	CCV	0	3	9/24/2024 3:51:22 PM
51	CCB	0	4	9/24/2024 3:57:25 PM
52	WG1975268-2 WG1975268	1	32	9/24/2024 4:03:58 PM
53	L2453345-01D2 WG1974088	1	28	9/24/2024 4:11:58 PM
54	L2453345-02D2 WG1974088	1	29	9/24/2024 4:18:08 PM
55	L2453345-07D2 WG1974088	1	30	9/24/2024 4:24:20 PM
56	L2453345-08D2 WG1974088	1	31	9/24/2024 4:30:32 PM
57	CCV	0	3	9/24/2024 4:36:44 PM
58	CCB	0	4	9/24/2024 4:42:47 PM
59	WG1974264-1 WG1974264	1	33	9/24/2024 4:51:09 PM
60	WG1974264-2 WG1974264	1	34	9/24/2024 4:57:26 PM
61	L2453404-16 WG1974264	1	40	9/24/2024 5:03:33 PM
62	L2453422-15 WG1974264	1	41	9/24/2024 5:09:44 PM
63	L2453167-03 WG1974264	1	35	9/24/2024 5:15:55 PM
64	WG1974264-3 WG1974264	1	36	9/24/2024 5:22:13 PM
65	WG1974264-4 WG1974264	1	37	9/24/2024 5:28:27 PM
66	WG1974264-5 WG1974264	1	38	9/24/2024 5:34:49 PM
67	WG1974264-6D5 WG1974264	1	39	9/24/2024 5:41:01 PM
68	CCV	0	3	9/24/2024 5:47:09 PM
69	CCB	0	4	9/24/2024 5:53:12 PM
70	xLDR 60 Zn No Exposure	1	42	9/24/2024 5:59:31 PM
71	LDR 60 Zn	1	42	9/24/2024 6:11:52 PM
72	LDR 60 Si	1	43	9/24/2024 6:18:14 PM

Sequence Trace 5

9/25/2024 12:09:29 PM

Index:	Label:	Rack	Vial	Start time:
73	L2453356-06 WG1974375	1	54	9/24/2024 6:44:26 PM
74	L2453356-07 WG1974375	1	55	9/24/2024 6:50:35 PM
75	L2453356-08 WG1974375	1	56	9/24/2024 6:56:48 PM
76	L2453356-09 WG1974375	1	57	9/24/2024 7:03:02 PM
77	L2453399-01 WG1974375	1	58	9/24/2024 7:09:15 PM
78	L2453399-03 WG1974375	1	59	9/24/2024 7:15:29 PM
79	L2453399-04 WG1974375	1	60	9/24/2024 7:21:44 PM
80	CCV	0	3	9/24/2024 7:28:06 PM
81	CCB	0	4	9/24/2024 7:34:09 PM
82	WG1974375-1 WG1974375	1	44	9/24/2024 8:01:56 PM
83	WG1974375-2 WG1974375	1	45	9/24/2024 8:08:13 PM
84	L2453356-03 WG1974375	1	51	9/24/2024 8:14:20 PM
85	L2453356-04 WG1974375	1	52	9/24/2024 8:20:29 PM
86	L2453356-05 WG1974375	1	53	9/24/2024 8:26:40 PM
87	L2453399-02 WG1974375	1	46	9/24/2024 8:32:51 PM
88	WG1974375-3 WG1974375	1	47	9/24/2024 8:39:02 PM
89	WG1974375-4 WG1974375	1	48	9/24/2024 8:45:08 PM
90	WG1974375-5 WG1974375	1	49	9/24/2024 8:51:14 PM
91	WG1974375-6D5 WG1974375	1	50	9/24/2024 8:57:17 PM
92	CCV	0	3	9/24/2024 9:03:30 PM
93	CCB	0	4	9/24/2024 9:09:34 PM
94	L2453399-05 WG1974375	2	1	9/24/2024 9:26:13 PM
95	L2453400-01 WG1974375	2	2	9/24/2024 9:32:30 PM
96	L2453400-02 WG1974375	2	3	9/24/2024 9:38:56 PM
97	L2453400-03 WG1974375	2	4	9/24/2024 9:45:08 PM
98	L2453400-04 WG1974375	2	5	9/24/2024 9:51:20 PM
99	CCV	0	3	9/24/2024 9:57:38 PM
100	CCB	0	4	9/24/2024 10:03:42 PM
101	WG1975260-1 WG1975260	2	6	9/24/2024 10:10:01 PM
102	zL2453131-02 WG1975260	2	14	9/24/2024 10:16:18 PM
103	WG1975260-2 WG1975260	2	7	9/24/2024 10:22:30 PM
104	wg1975278-1 wg1975278	2	15	9/24/2024 10:28:36 PM
105	L2453130-02 WG1975260	2	13	9/24/2024 10:34:54 PM
106	L2453130-01 WG1975260	2	8	9/24/2024 10:41:16 PM
107	WG1975260-3 WG1975260	2	9	9/24/2024 10:47:29 PM
108	WG1975260-4 WG1975260	2	10	9/24/2024 10:53:34 PM
109	WG1975260-5 WG1975260	2	11	9/24/2024 10:59:47 PM
110	WG1975260-6D5 WG1975260	2	12	9/24/2024 11:05:53 PM
111	CCV	0	3	9/24/2024 11:12:08 PM
112	CCB	0	4	9/24/2024 11:18:13 PM
113	wg1975278-6D5 wg1975278	2	21	9/24/2024 11:24:32 PM
114	L2453261-02 wg1975278	2	22	9/24/2024 11:30:46 PM
115	wg1975278-2 wg1975278	2	16	9/24/2024 11:37:02 PM
116	L2453261-01 wg1975278	2	17	9/24/2024 11:43:08 PM
117	wg1975278-3 wg1975278	2	18	9/24/2024 11:49:21 PM
118	wg1975278-4 wg1975278	2	19	9/24/2024 11:55:25 PM
119	wg1975278-5 wg1975278	2	20	9/25/2024 12:01:40 AM
120	CCV	0	3	9/25/2024 12:07:44 AM
121	CCB	0	4	9/25/2024 12:13:48 AM
122	CCV	0	10	9/25/2024 12:20:07 AM
123	CCB	0	4	9/25/2024 12:26:14 AM
124	LLOQ RL	0	5	9/25/2024 12:32:34 AM

Sequence Trace 9

9/25/2024 11:15:46 AM

LabBook: WG1975360_09242024T9.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DMC Trace9	0	1	9/24/2024 6:10:19 AM
2	ICAL	0	2	9/24/2024 6:14:03 AM
3	ICV	0	3	9/24/2024 6:17:55 AM
4	ICB	0	4	9/24/2024 6:21:49 AM
5	LLOQ	0	5	9/24/2024 6:30:07 AM
6	ICSA	0	6	9/24/2024 6:34:08 AM
7	SIC Multi	0	7	9/24/2024 6:38:03 AM
8	LDR Check	0	8	9/24/2024 6:41:59 AM
9	xLLOQ 0.005ppm	1	1	9/24/2024 7:09:07 AM
10	LLOQ 0.01ppm As soil TCLP	1	2	9/24/2024 7:13:05 AM
11	LDR 20 As pass	1	3	9/24/2024 7:16:57 AM
12	LDR 20 B pass	1	4	9/24/2024 7:20:50 AM
13	LDR 200 Fe pass	1	5	9/24/2024 7:24:42 AM
14	XLDR 1000 Ca	1	6	9/24/2024 7:28:35 AM
15	LDR 500 Fe pass	1	7	9/24/2024 7:34:29 AM
16	CCV	0	3	9/24/2024 7:41:14 AM
17	CCB	0	4	9/24/2024 7:45:13 AM
18	WG1974842-1 WG1974842	1	8	9/24/2024 8:10:13 AM
19	WG1974842-2 WG1974842	1	9	9/24/2024 8:14:12 AM
20	L2450787-01 WG1974842	1	20	9/24/2024 8:18:06 AM
21	L2450787-02 WG1974842	1	21	9/24/2024 8:22:00 AM
22	L2450791-01 WG1974842	1	22	9/24/2024 8:25:54 AM
23	L2454463-01 WG1974842	1	10	9/24/2024 8:29:48 AM
24	WG1974842-3 WG1974842	1	11	9/24/2024 8:33:43 AM
25	WG1974842-4 WG1974842	1	12	9/24/2024 8:37:37 AM
26	WG1974842-5 WG1974842	1	13	9/24/2024 8:41:32 AM
27	WG1974842-6D5 WG1974842	1	14	9/24/2024 8:45:24 AM
28	CCV	0	3	9/24/2024 8:49:16 AM
29	CCB	0	4	9/24/2024 8:53:10 AM
30	xwrong spot	0	5	9/24/2024 9:04:19 AM
31	xLLOQ 0.005ppm	1	1	9/24/2024 9:05:16 AM
32	L2450791-02 WG1974842	1	23	9/24/2024 9:09:21 AM
33	L2454463-03 WG1974842	1	24	9/24/2024 9:13:16 AM
34	L2454463-04 WG1974842	1	25	9/24/2024 9:17:10 AM
35	L2454463-02 WG1974842	1	15	9/24/2024 9:21:03 AM
36	WG1974842-7 WG1974842	1	16	9/24/2024 9:24:55 AM
37	WG1974842-8 WG1974842	1	17	9/24/2024 9:28:48 AM
38	WG1974842-9 WG1974842	1	18	9/24/2024 9:32:41 AM
39	WG1974842-10D5 WG1974842	1	19	9/24/2024 9:36:35 AM
40	CCV	0	3	9/24/2024 9:40:28 AM
41	CCB	0	4	9/24/2024 9:44:22 AM
42	LDR 750 Ca pass	1	48	9/24/2024 10:00:44 AM
43	LLOQ 0.005ppm As waters	1	47	9/24/2024 10:04:53 AM
44	L2454463-05 WG1974842	1	26	9/24/2024 10:08:48 AM
45	L2454463-06 WG1974842	1	27	9/24/2024 10:12:41 AM
46	L2454463-07 WG1974842	1	28	9/24/2024 10:16:33 AM
47	L2453276-01 WG1974865	1	31	9/24/2024 10:20:26 AM
48	WG1974865-3 WG1974865	1	32	9/24/2024 10:24:20 AM
49	WG1974865-4 WG1974865	1	33	9/24/2024 10:28:14 AM
50	WG1974865-5 WG1974865	1	34	9/24/2024 10:32:08 AM
51	WG1974865-6D5 WG1974865	1	35	9/24/2024 10:36:03 AM
52	CCV	0	3	9/24/2024 10:39:58 AM
53	CCB	0	4	9/24/2024 10:43:52 AM
54	WG1974865-1 WG1974865	1	29	9/24/2024 10:51:03 AM
55	WG1975349-1 WG1975349	1	49	9/24/2024 10:55:11 AM
56	WG1974865-2 WG1974865	1	30	9/24/2024 10:59:04 AM
57	WG1975349-2 WG1975349	1	50	9/24/2024 11:02:57 AM
58	WG1975349-3 WG1975349	1	51	9/24/2024 11:06:50 AM
59	L2453277-01 WG1974865	1	36	9/24/2024 11:10:43 AM
60	WG1974865-7 WG1974865	1	37	9/24/2024 11:14:38 AM
61	WG1974865-8 WG1974865	1	38	9/24/2024 11:18:31 AM
62	WG1974865-9 WG1974865	1	39	9/24/2024 11:22:24 AM
63	WG1974865-10D5 WG1974865	1	40	9/24/2024 11:26:17 AM
64	CCV	0	3	9/24/2024 11:30:11 AM
65	CCB	0	4	9/24/2024 11:34:05 AM
66	WG1975353-1 WG1975353	1	53	9/24/2024 11:39:09 AM
67	WG1975353-2D2 WG1975353	1	54	9/24/2024 11:43:11 AM
68	L2454601-01 WG1975349	1	52	9/24/2024 11:47:04 AM

Sequence Trace 9

9/25/2024 11:15:46 AM

Index	Label	Rack	Vial	Started at
69	L2453255-01 WG1974865	1	46	9/24/2024 11:50:57 AM
70	L2453252-04 WG1974865	1	41	9/24/2024 11:54:52 AM
71	L2453252-05 WG1974865	1	42	9/24/2024 11:58:45 AM
72	L2453252-06 WG1974865	1	43	9/24/2024 12:02:39 PM
73	L2454641-01D2 WG1975353	1	60	9/24/2024 12:06:33 PM
74	L2454641-02D2 WG1975353	2	1	9/24/2024 12:10:28 PM
75	L2454641-03D2 WG1975353	2	2	9/24/2024 12:14:22 PM
76	CCV	0	3	9/24/2024 12:18:17 PM
77	CCB	0	4	9/24/2024 12:22:12 PM
78	WG1975268-1 WG1975268	2	3	9/24/2024 12:29:12 PM
79	WG1975268-2 WG1975268	2	4	9/24/2024 12:33:24 PM
80	L2453252-07 WG1974865	1	44	9/24/2024 12:37:18 PM
81	L2453252-08 WG1974865	1	45	9/24/2024 12:41:12 PM
82	L2453342-06 WG1975268	2	10	9/24/2024 12:45:07 PM
83	L2454641-04D2 WG1975353	1	55	9/24/2024 12:49:02 PM
84	WG1975353-3D2 WG1975353	1	56	9/24/2024 12:52:56 PM
85	WG1975353-4D2 WG1975353	1	57	9/24/2024 12:56:51 PM
86	WG1975353-5D2 WG1975353	1	58	9/24/2024 1:00:45 PM
87	WG1975353-6D10 WG1975353	1	59	9/24/2024 1:04:40 PM
88	CCV	0	3	9/24/2024 1:08:35 PM
89	CCB	0	4	9/24/2024 1:12:30 PM
90	L2453342-05 WG1973830	2	11	9/24/2024 1:18:02 PM
91	WG1973830-7 WG1973830	2	12	9/24/2024 1:22:12 PM
92	WG1973830-8 WG1973830	2	13	9/24/2024 1:26:07 PM
93	WG1973830-9 WG1973830	2	14	9/24/2024 1:30:02 PM
94	WG1973830-10D5 WG1973830	2	15	9/24/2024 1:33:57 PM
95	L2453016-04 WG1975268	2	5	9/24/2024 1:37:51 PM
96	WG1975268-3 WG1975268	2	6	9/24/2024 1:41:46 PM
97	WG1975268-4 WG1975268	2	7	9/24/2024 1:45:40 PM
98	WG1975268-5 WG1975268	2	8	9/24/2024 1:49:34 PM
99	WG1975268-6D5 WG1975268	2	9	9/24/2024 1:53:29 PM
100	CCV	0	3	9/24/2024 1:57:24 PM
101	CCB	0	4	9/24/2024 2:01:18 PM
102	L2453342-10 WG1973830	2	22	9/24/2024 2:07:42 PM
103	L2453342-01 WG1973830	2	16	9/24/2024 2:11:43 PM
104	L2453342-02 WG1973830	2	17	9/24/2024 2:15:38 PM
105	L2453342-03 WG1973830	2	18	9/24/2024 2:19:33 PM
106	L2453342-04 WG1973830	2	19	9/24/2024 2:23:27 PM
107	L2453342-07 WG1973830	2	20	9/24/2024 2:27:22 PM
108	L2453342-08 WG1973830	2	21	9/24/2024 2:31:17 PM
109	CCV	0	3	9/24/2024 2:35:12 PM
110	CCB	0	4	9/24/2024 2:39:06 PM
111	WG1974066-1 WG1974066	2	23	9/24/2024 3:03:19 PM
112	WG1974066-2d2 WG1974066	2	24	9/24/2024 3:07:34 PM
113	L2453391-01d2 WG1974066	2	25	9/24/2024 3:11:30 PM
114	WG1974066-3d2 WG1974066	2	26	9/24/2024 3:15:25 PM
115	WG1974066-4d2 WG1974066	2	27	9/24/2024 3:19:20 PM
116	WG1974066-5d2 WG1974066	2	28	9/24/2024 3:23:15 PM
117	WG1974066-6d10 WG1974066	2	29	9/24/2024 3:27:10 PM
118	L2453391-02d2 WG1974066	2	30	9/24/2024 3:31:05 PM
119	L2453391-03d2 WG1974066	2	31	9/24/2024 3:35:00 PM
120	L2453391-04d2 WG1974066	2	32	9/24/2024 3:38:55 PM
121	CCV	0	3	9/24/2024 3:42:50 PM
122	CCB	0	4	9/24/2024 3:46:45 PM
123	L2453391-05d2 WG1974066	2	33	9/24/2024 3:52:01 PM
124	L2453391-06d2 WG1974066	2	34	9/24/2024 3:56:10 PM
125	L2453391-07d2 WG1974066	2	35	9/24/2024 4:00:05 PM
126	L2453391-08d2 WG1974066	2	36	9/24/2024 4:04:00 PM
127	L2453391-09d2 WG1974066	2	37	9/24/2024 4:07:56 PM
128	L2453391-10d2 WG1974066	2	38	9/24/2024 4:11:51 PM
129	L2453391-11d2 WG1974066	2	39	9/24/2024 4:15:47 PM
130	L2453391-12d2 WG1974066	2	40	9/24/2024 4:19:42 PM
131	L2453391-13d2 WG1974066	2	41	9/24/2024 4:23:37 PM
132	L2453391-14d2 WG1974066	2	42	9/24/2024 4:27:33 PM
133	CCV	0	3	9/24/2024 4:31:29 PM
134	CCB	0	4	9/24/2024 4:35:23 PM
135	WG1974891-1 WG1974891	2	49	9/24/2024 4:40:43 PM
136	WG1974891-2d2 WG1974891	2	50	9/24/2024 4:44:53 PM
137	WG1974891-3d2 WG1974891	2	51	9/24/2024 4:48:48 PM
138	L2453184-01d2 WG1974891	2	52	9/24/2024 4:52:44 PM
139	L2453184-02d2 WG1974891	2	53	9/24/2024 4:56:39 PM
140	L2453184-03d2 WG1974891	2	54	9/24/2024 5:00:34 PM
141	L2453184-04d2 WG1974891	2	55	9/24/2024 5:04:30 PM
142	L2453208-01d2 WG1974891	2	56	9/24/2024 5:08:25 PM

Sequence Trace 9

9/25/2024 11:15:46 AM

Index	Label	Rack	Vial	Started at
143	L2453314-01d2 WG1974891	2	57	9/24/2024 5:12:22 PM
144	L2453398-01d2 WG1974891	2	58	9/24/2024 5:16:19 PM
145	CCV	0	3	9/24/2024 5:20:14 PM
146	CCB	0	4	9/24/2024 5:24:10 PM
147	L2453391-15d2 WG1974066	2	43	9/24/2024 5:30:14 PM
148	L2453391-16d2 WG1974066	2	44	9/24/2024 5:34:25 PM
149	L2453391-17d2 WG1974066	2	45	9/24/2024 5:38:21 PM
150	L2453391-18d2 WG1974066	2	46	9/24/2024 5:42:16 PM
151	L2453391-19d2 WG1974066	2	47	9/24/2024 5:46:11 PM
152	L2453391-20d2 WG1974066	2	48	9/24/2024 5:50:07 PM
153	CCV	0	3	9/24/2024 5:54:03 PM
154	CCB	0	4	9/24/2024 5:57:59 PM
155	WG1974561-1 WG1974561	2	59	9/24/2024 6:03:10 PM
156	WG1974561-2d2 WG1974561	2	60	9/24/2024 6:07:21 PM
157	xL2453188-02d2 WG1974561	3	6	9/24/2024 6:11:17 PM
158	L2453188-03d2 WG1974561	3	7	9/24/2024 6:15:14 PM
159	L2453188-04d2 WG1974561	3	8	9/24/2024 6:19:10 PM
160	L2453188-01d2 WG1974561	3	1	9/24/2024 6:23:08 PM
161	WG1974561-3d2 WG1974561	3	2	9/24/2024 6:27:05 PM
162	WG1974561-4d2 WG1974561	3	3	9/24/2024 6:31:01 PM
163	WG1974561-5d2 WG1974561	3	4	9/24/2024 6:34:58 PM
164	WG1974561-6d10 WG1974561	3	5	9/24/2024 6:38:54 PM
165	CCV	0	3	9/24/2024 6:42:51 PM
166	CCB	0	4	9/24/2024 6:46:47 PM
167	TEST PS 1121 DMC	3	15	9/24/2024 6:50:43 PM
168	L2453188-05d2 WG1974561	3	9	9/24/2024 6:54:39 PM
169	L2453188-06d2 WG1974561	3	10	9/24/2024 6:58:36 PM
170	L2453311-01d2 WG1974561	3	11	9/24/2024 7:02:32 PM
171	L2453311-02d2 WG1974561	3	12	9/24/2024 7:06:29 PM
172	L2453311-03d2 WG1974561	3	13	9/24/2024 7:10:26 PM
173	L2453311-04d2 WG1974561	3	14	9/24/2024 7:14:23 PM
174	L2453188-02d10 WG1974561	3	16	9/24/2024 7:18:20 PM
175	L2453188-03d4 WG1974561	3	17	9/24/2024 7:22:17 PM
176	CCV	0	3	9/24/2024 7:26:14 PM
177	CCB	0	4	9/24/2024 7:30:10 PM
178	CCV	0	3	9/24/2024 7:38:49 PM
179	CCB	0	4	9/24/2024 7:44:36 PM
180	L2453211-01 WG1974756	3	19	9/24/2024 7:48:47 PM
181	L2453598-01 WG1974756	3	20	9/24/2024 7:52:44 PM
182	L2453598-02 WG1974756	3	21	9/24/2024 7:56:41 PM
183	L2453114-01 WG1973873	3	22	9/24/2024 8:00:38 PM
184	L2453114-02 WG1973873	3	23	9/24/2024 8:04:35 PM
185	L2453188-06d4 WG1974561	3	18	9/24/2024 8:08:33 PM
186	CCV	0	3	9/24/2024 8:12:31 PM
187	CCB	0	4	9/24/2024 8:16:26 PM
188	WG1975551-1 WG1975551	3	24	9/24/2024 8:23:47 PM
189	WG1975551-2 WG1975551	3	25	9/24/2024 8:28:03 PM
190	L2453281-01 WG1975551	3	26	9/24/2024 8:32:00 PM
191	WG1975551-3 WG1975551	3	27	9/24/2024 8:35:58 PM
192	WG1975551-4 WG1975551	3	28	9/24/2024 8:39:55 PM
193	WG1975551-5 WG1975551	3	29	9/24/2024 8:43:53 PM
194	WG1975551-6d5 WG1975551	3	30	9/24/2024 8:47:50 PM
195	CCV	0	3	9/24/2024 8:51:48 PM
196	CCB	0	4	9/24/2024 8:55:43 PM
197	CCV	0	3	9/24/2024 8:59:39 PM
198	CCB	0	4	9/24/2024 9:03:35 PM
199	LLOQ	0	5	9/24/2024 9:07:31 PM

Sequence Trace 5

9/25/2024 3:25:39 PM

LabBook: WG1976104_09252024T5.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank CEY Trace5	0	1	9/25/2024 10:33:30 AM
2	ICAL	0	2	9/25/2024 10:39:47 AM
3	ICV	0	3	9/25/2024 10:45:49 AM
4	ICB	0	4	9/25/2024 10:51:52 AM
5	ICV	0	10	9/25/2024 10:58:15 AM
6	ICB	0	4	9/25/2024 11:04:22 AM
7	LLOQ RL	0	5	9/25/2024 11:10:40 AM
8	ICSA	0	6	9/25/2024 11:19:13 AM
9	SIC Multi	0	7	9/25/2024 11:28:23 AM
10	LDR Check	0	8	9/25/2024 11:35:06 AM
11	LLOQ RL 05 Fe pass	1	1	9/25/2024 11:51:00 AM
12	LDR 300 K pass	1	2	9/25/2024 12:00:08 PM
13	LDR 300 Na pass	1	3	9/25/2024 12:06:25 PM
14	LDR 20 B pass	1	4	9/25/2024 12:14:38 PM
15	CCV	0	3	9/25/2024 12:21:11 PM
16	CCB	0	4	9/25/2024 12:27:15 PM
17	L2453672-01 WG1975268	1	10	9/25/2024 12:36:49 PM
18	L2453720-01 WG1975268	1	11	9/25/2024 12:43:04 PM
19	L2453720-03 WG1975268	1	12	9/25/2024 12:49:19 PM
20	L2453720-04 WG1975268	1	13	9/25/2024 12:55:35 PM
21	L2453720-06 WG1975268	1	14	9/25/2024 1:01:50 PM
22	L2453720-02 WG1975268	1	5	9/25/2024 1:08:02 PM
23	WG1975268-7 WG1975268	1	6	9/25/2024 1:14:16 PM
24	WG1975268-8 WG1975268	1	7	9/25/2024 1:20:20 PM
25	WG1975268-9 WG1975268	1	8	9/25/2024 1:26:26 PM
26	WG1975268-10D5 WG1975268	1	9	9/25/2024 1:32:31 PM
27	CCV	0	3	9/25/2024 1:38:46 PM
28	CCB	0	4	9/25/2024 1:44:50 PM
29	L2453720-07 WG1975268	1	15	9/25/2024 1:55:06 PM
30	L2453720-08 WG1975268	1	16	9/25/2024 2:01:19 PM
31	L2453720-09 WG1975268	1	17	9/25/2024 2:07:32 PM
32	L2453501-01 WG1974842	1	18	9/25/2024 2:13:44 PM
33	L2453640-01 WG1974842	1	19	9/25/2024 2:19:55 PM
34	L2453644-01 WG1974842	1	20	9/25/2024 2:26:07 PM
35	L2453656-01 WG1974842	1	21	9/25/2024 2:32:20 PM
36	L2453657-01 WG1974842	1	22	9/25/2024 2:38:41 PM
37	L2453659-01 WG1974842	1	23	9/25/2024 2:45:10 PM
38	L2453663-01 WG1974842	1	24	9/25/2024 2:51:25 PM
39	CCV	0	3	9/25/2024 3:05:09 PM
40	CCB	0	4	9/25/2024 3:11:13 PM
41	L2453525-01D2 WG1975354	1	25	9/25/2024 3:18:01 PM
42	L2453625-01D2 WG1975354	1	33	
43	L2453645-03D2 WG1975354	1	34	
44	L2453703-01D2 WG1975354	1	35	
45	L2453703-03D2 WG1975354	1	36	
46	CCV	0	3	
47	CCB	0	4	
48	L2453525-02D2 WG1975354	1	26	
49	L2453525-03D2 WG1975354	1	27	
50	L2453525-04D2 WG1975354	1	28	
51	L2453525-05D2 WG1975354	1	29	
52	L2453525-06D2 WG1975354	1	30	
53	L2453547-01D2 WG1975354	1	31	
54	L2453547-02D2 WG1975354	1	32	
55		1	37	
56	CCV	0	3	
57	CCB	0	4	
58	CCV	0	3	
59	CCB	0	4	
60	CCV	0	10	
61	CCB	0	4	
62	LLOQ RL	0	5	

Sequence Trace 8

9/25/2024 4:30:22 PM

LabBook: WG1975913_09252024T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank DMC Trace8	0	1	9/25/2024 5:27:52 AM
2	ICAL	0	2	9/25/2024 5:32:05 AM
3	ICV	0	3	9/25/2024 5:36:01 AM
4	ICB	0	4	9/25/2024 5:39:56 AM
5	ICV	0	10	9/25/2024 5:45:06 AM
6	ICB	0	4	9/25/2024 5:49:06 AM
7	LLOQ	0	5	9/25/2024 5:53:02 AM
8	ICSA	0	6	9/25/2024 5:56:59 AM
9	SIC Multi	0	7	9/25/2024 6:02:58 AM
10	LDR Check	0	8	9/25/2024 6:08:00 AM
11	0.005	1	1	9/25/2024 6:38:54 AM
12	0.01	1	2	9/25/2024 6:42:55 AM
13	0.05	1	3	9/25/2024 6:46:50 AM
14	ldr 20ppm b	1	4	9/25/2024 6:50:46 AM
15	ldr 500 fe	1	5	9/25/2024 6:54:42 AM
16	ldr 500ppm al	1	6	9/25/2024 6:58:38 AM
17	ldr 1000ppm ca	1	7	9/25/2024 7:02:35 AM
18	CCV	0	3	9/25/2024 7:28:11 AM
19	CCB	0	4	9/25/2024 7:32:25 AM
20	WG1975485-1 WG1975485	1	11	9/25/2024 7:37:24 AM
21	WG1975485-2 WG1975485	1	12	9/25/2024 7:41:23 AM
22	L2453546-01 WG1974865	1	8	9/25/2024 7:45:21 AM
23	L2453629-01 WG1974865	1	9	9/25/2024 7:49:18 AM
24	L2454640-01d2 WG1975353	1	10	9/25/2024 7:53:15 AM
25	L2453720-02 WG1975485	1	13	9/25/2024 7:57:13 AM
26	WG1975485-3 WG1975485	1	14	9/25/2024 8:01:07 AM
27	WG1975485-4 WG1975485	1	15	9/25/2024 8:05:02 AM
28	WG1975485-5 WG1975485	1	16	9/25/2024 8:08:57 AM
29	WG1975485-6d5 WG1975485	1	17	9/25/2024 8:12:52 AM
30	CCV	0	3	9/25/2024 8:16:48 AM
31	CCB	0	4	9/25/2024 8:20:44 AM
32	L2453720-01 WG1975485	1	18	9/25/2024 8:24:40 AM
33	L2453720-03 WG1975485	1	19	9/25/2024 8:28:36 AM
34	L2453720-04 WG1975485	1	20	9/25/2024 8:32:32 AM
35	L2453720-06 WG1975485	1	21	9/25/2024 8:36:29 AM
36	L2453720-07 WG1975485	1	22	9/25/2024 8:40:25 AM
37	L2453720-08 WG1975485	1	23	9/25/2024 8:44:23 AM
38	L2453720-09 WG1975485	1	24	9/25/2024 8:48:20 AM
39	CCV	0	3	9/25/2024 8:52:18 AM
40	CCB	0	4	9/25/2024 8:56:14 AM
41	eL2453382-01D2 WG1974886	1	25	9/25/2024 9:04:39 AM
42	L2453600-01D2 WG1974886	1	26	9/25/2024 9:08:53 AM
43	L2453600-02D2 WG1974886	1	27	9/25/2024 9:12:47 AM
44	L2453600-03D2 WG1974886	1	28	9/25/2024 9:16:42 AM
45	L2453600-04D2 WG1974886	1	29	9/25/2024 9:20:37 AM
46	L2453600-05D2 WG1974886	1	30	9/25/2024 9:24:32 AM
47	L2453621-01D2 WG1974886	1	31	9/25/2024 9:28:28 AM
48	L2453621-02D2 WG1974886	1	32	9/25/2024 9:32:24 AM
49	L2453621-03D2 WG1974886	1	33	9/25/2024 9:36:20 AM
50	L2453642-01D2 WG1974886	1	34	9/25/2024 9:40:17 AM
51	CCV	0	3	9/25/2024 9:44:14 AM
52	CCB	0	4	9/25/2024 9:48:10 AM
53	0.005	1	43	9/25/2024 9:54:03 AM
54	L2453642-02D2 WG1974886	1	35	9/25/2024 9:59:41 AM
55	L2453642-03D2 WG1974886	1	36	9/25/2024 10:03:55 AM
56	L2453704-01D2 WG1974886	1	37	9/25/2024 10:07:53 AM
57	EL2454328-01D2 WG1974886	1	38	9/25/2024 10:11:48 AM
58	EL2454328-02D2 WG1974886	1	39	9/25/2024 10:15:43 AM
59	EL2454328-03D2 WG1974886	1	40	9/25/2024 10:19:37 AM
60	L2454436-02D2 WG1974886	1	41	9/25/2024 10:23:32 AM
61	L2454436-05D2 WG1974886	1	42	9/25/2024 10:27:28 AM
62	L2453382-01D4 WG1974886	1	44	9/25/2024 10:31:23 AM
63	CCV	0	3	9/25/2024 10:35:19 AM
64	CCB	0	4	9/25/2024 10:39:17 AM
65	L2453616-01D2 WG1974561	1	45	9/25/2024 10:43:24 AM
66	L2453616-03D2 WG1974561	1	46	9/25/2024 10:47:21 AM
67	L2453616-05D2 WG1974561	1	47	9/25/2024 10:51:17 AM
68	L2453616-07D2 WG1974561	1	48	9/25/2024 10:55:15 AM

Sequence Trace 8

9/25/2024 4:30:22 PM

Index	Label	Rack	Vial	Started at
69	L2453616-09D2 WG1974561	1	49	9/25/2024 10:59:12 AM
70	L2453616-11D2 WG1974561	1	50	9/25/2024 11:03:08 AM
71	L2453616-13D2 WG1974561	1	51	9/25/2024 11:07:04 AM
72	L2453616-15D2 WG1974561	1	52	9/25/2024 11:11:00 AM
73	L2453616-17D2 WG1974561	1	53	9/25/2024 11:14:58 AM
74	L2453616-19D2 WG1974561	1	54	9/25/2024 11:18:54 AM
75	CCV	0	3	9/25/2024 11:22:50 AM
76	CCB	0	4	9/25/2024 11:26:47 AM
77	L2454328-02D4 WG1974886	1	55	9/25/2024 11:33:27 AM
78	L2454328-03D4 WG1974886	1	57	9/25/2024 11:37:30 AM
79	L2454328-01D10 WG1974886	1	56	9/25/2024 11:41:27 AM
80	L2453131-02 WG1975260	1	58	9/25/2024 11:46:57 AM
81	CCV	0	3	9/25/2024 11:50:58 AM
82	CCB	0	4	9/25/2024 11:54:55 AM
83	L2453602-33 WG1975349	1	59	9/25/2024 12:02:15 PM
84	L2453602-34 WG1975349	1	60	9/25/2024 12:10:03 PM
85	L2453602-35 WG1975349	2	1	9/25/2024 12:14:21 PM
86	L2453602-36 WG1975349	2	2	9/25/2024 12:18:18 PM
87	L2453602-37 WG1975349	2	3	9/25/2024 12:22:14 PM
88	CCV	0	3	9/25/2024 12:26:10 PM
89	CCB	0	4	9/25/2024 12:30:08 PM
90	WG1975911-1 WG1975911	2	4	9/25/2024 12:37:46 PM
91	WG1975911-2D2 WG1975911	2	5	9/25/2024 12:49:16 PM
92	L2454944-01D2 WG1975911	2	21	9/25/2024 12:53:33 PM
93	L2454997-01D2 WG1975911	2	22	9/25/2024 12:57:31 PM
94	L2454997-03D2 WG1975911	2	23	9/25/2024 1:01:29 PM
95	L2454997-02D2 WG1975911	2	6	9/25/2024 1:05:27 PM
96	WG1975911-3D2 WG1975911	2	7	9/25/2024 1:09:24 PM
97	WG1975911-4D2 WG1975911	2	8	9/25/2024 1:13:22 PM
98	WG1975911-5D2 WG1975911	2	9	9/25/2024 1:17:19 PM
99	WG1975911-6D10 WG1975911	2	10	9/25/2024 1:21:16 PM
100	CCV	0	3	9/25/2024 1:25:14 PM
101	CCB	0	4	9/25/2024 1:29:12 PM
102	L2454997-05D2 WG1975911	2	24	9/25/2024 1:34:17 PM
103	L2454997-07D2 WG1975911	2	25	9/25/2024 1:38:15 PM
104	L2454997-09D2 WG1975911	2	26	9/25/2024 1:42:13 PM
105	L2454997-10D2 WG1975911	2	27	9/25/2024 1:46:11 PM
106	L2454997-11D2 WG1975911	2	28	9/25/2024 1:50:09 PM
107	L2454997-04D2 WG1975911	2	11	9/25/2024 1:54:06 PM
108	WG1975911-7D2 WG1975911	2	12	9/25/2024 1:58:05 PM
109	WG1975911-8D2 WG1975911	2	13	9/25/2024 2:02:04 PM
110	WG1975911-9D2 WG1975911	2	14	9/25/2024 2:06:01 PM
111	WG1975911-10D10 WG1975911	2	15	9/25/2024 2:09:58 PM
112	CCV	0	3	9/25/2024 2:13:56 PM
113	CCB	0	4	9/25/2024 2:17:54 PM
114	L2454997-12D2 WG1975911	2	29	9/25/2024 2:25:08 PM
115	L2454997-13D2 WG1975911	2	30	9/25/2024 2:29:11 PM
116	L2454997-14D2 WG1975911	2	31	9/25/2024 2:33:09 PM
117	L2454997-06D2 WG1975911	2	16	9/25/2024 2:37:06 PM
118	WG1975911-11D2 WG1975911	2	17	9/25/2024 2:41:04 PM
119	WG1975911-12D2 WG1975911	2	18	9/25/2024 2:45:01 PM
120	WG1975911-13D2 WG1975911	2	19	9/25/2024 2:48:59 PM
121	WG1975911-14D10 WG1975911	2	20	9/25/2024 2:52:56 PM
122	CCV	0	3	9/25/2024 2:56:54 PM
123	CCB	0	4	9/25/2024 3:00:53 PM
124	L2453655-01D2 WG1974891	2	32	9/25/2024 3:07:12 PM
125	L2453671-01D2 WG1974891	2	33	9/25/2024 3:11:32 PM
126	L2453671-02D2 WG1974891	2	34	9/25/2024 3:15:32 PM
127	L2453716-04D2 WG1975357	2	45	9/25/2024 3:19:30 PM
128	CCV	0	3	9/25/2024 3:23:29 PM
129	CCB	0	4	9/25/2024 3:27:26 PM
130	WG1975357-1 WG1975357	2	35	9/25/2024 3:38:36 PM
131	WG1975357-2D2 WG1975357	2	36	9/25/2024 3:42:57 PM
132	L2453716-01D2 WG1975357	2	42	9/25/2024 3:46:57 PM
133	L2453716-02D2 WG1975357	2	43	9/25/2024 3:50:55 PM
134	L2453716-03D2 WG1975357	2	44	9/25/2024 3:54:53 PM
135	L2452082-01D2 WG1975357	2	37	9/25/2024 3:58:51 PM
136	WG1975357-3D2 WG1975357	2	38	9/25/2024 4:02:52 PM
137	WG1975357-4D2 WG1975357	2	39	9/25/2024 4:06:54 PM
138	WG1975357-5D2 WG1975357	2	40	9/25/2024 4:10:53 PM
139	WG1975357-6D10 WG1975357	2	41	9/25/2024 4:14:52 PM
140	CCV	0	3	9/25/2024 4:18:51 PM
141	CCB	0	4	9/25/2024 4:22:49 PM
142	L2453730-01D2 WG1974889	2	46	

Sequence Trace 8

9/25/2024 4:30:22 PM

Index	Label	Rack	Vial	Started at
143	L2453730-02D2 WG1974889	2	47	
144	L2453730-03D2 WG1974889	2	48	
145	L2453730-04D2 WG1974889	2	49	
146	L2453730-05D2 WG1974889	2	50	
147	L2453730-06D2 WG1974889	2	51	
148	L2453730-07D2 WG1974889	2	52	
149	L2453730-08D2 WG1974889	2	53	
150	L2453730-09D2 WG1974889	2	54	
151	L2453730-10D2 WG1974889	2	55	
152	CCV	0	3	
153	CCB	0	4	
154	L2453730-11D2 WG1974889	2	56	
155	L2453730-12D2 WG1974889	2	57	
156	L2453730-13D2 WG1974889	2	58	
157	L2453730-14D2 WG1974889	2	59	
158		2	60	
159		3	1	
160		3	2	
161		3	3	
162		3	4	
163		3	5	
164		3	6	
165		3	7	
166		3	8	
167		3	9	
168		3	10	
169		3	11	
170		3	12	
171		3	13	
172		3	14	
173		3	15	
174		3	16	
175		3	17	
176		3	18	
177		3	19	
178		3	20	
179		3	21	
180		3	22	
181		3	23	
182		3	24	
183		3	25	
184		3	26	
185	CCV	0	3	
186	CCB	0	4	
187	CCV	0	3	
188	CCB	0	4	
189	LLOQ	0	5	

METALS ELN REPORT

Workgroup: WG1975268

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHN0324381 80400CLH	1:1 HCl	tHCL243712 0918EFM	METALS	METSPIKE2	IPS,FPS,MIX	METSPIKE2	IPS,FPS,MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2452152-01	09/23/24 21:16	Maisie Mcqueen	50	<2							
L2452152-02	09/23/24 21:16	Maisie Mcqueen	50	<2							
L2452152-03	09/23/24 21:16	Maisie Mcqueen	50	<2							
L2452152-04	09/23/24 21:16	Maisie Mcqueen	50	<2							
L2453016-04 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453342-06 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453672-01 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-01 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-02 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-03 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-04 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-06 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-07 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
L2453720-08 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	

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METALS ELN REPORT

Workgroup: WG1975268

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2453720-09 SAMP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-1 BLANK	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	FM2438201045 AJT
WG1975268-2 LCS	09/23/24 21:16	Maisie Mcqueen	50	<2	0.5	09/23/24 21:16	9	94.4	09/24/24 00:16	50	ELN:cme
WG1975268-3 MS	09/23/24 21:16	Maisie Mcqueen	50	<2	0.5	09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-4 DUP	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-5 PS	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-6 SERDIL	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-7 MS	09/23/24 21:16	Maisie Mcqueen	50	<2	0.5	09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-8 MSD	09/23/24 21:16	Maisie Mcqueen	50	<2	0.5	09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-9 PS	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	
WG1975268-10 SERDIL	09/23/24 21:16	Maisie Mcqueen	50	<2		09/23/24 21:16	9	94.4	09/24/24 00:16	50	IPS2433150405CLH

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METALS ELN REPORT

Workgroup: WG1975268

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

METALS ELN REPORT

Workgroup: WG1975485

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHN0324382 01155JDH	1:1 HCl	tHCL243421 0713CME	METALS	METSPIKE2	IPS, FPS, MIX	METSPIKE2	IPS, FPS, MIX	326, 140

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2453720-01 SAMP	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	Container F
L2453720-02 SAMP	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	Container F
L2453720-03 SAMP	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	Container F
L2453720-04 SAMP	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	Container F
L2453720-06 SAMP	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	Container F
L2453720-07 SAMP	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	Container F
L2453720-08 SAMP	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	Container F
L2453720-09 SAMP	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	Container F
WG1975485-1 BLANK	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	
WG1975485-2 LCS	09/24/24 10:15	Alexander Gonatas	NA	50	<2	0.5	09/24/24 10:15	10	94.5	09/24/24 13:15	50	ELN: JDH
WG1975485-3 MS	09/24/24 10:15	Alexander Gonatas	NA	50	<2	0.5	09/24/24 10:15	10	94.5	09/24/24 13:15	50	
WG1975485-4 MSD	09/24/24 10:15	Alexander Gonatas	NA	50	<2	0.5	09/24/24 10:15	10	94.5	09/24/24 13:15	50	FM2438201045 AJT
WG1975485-5 PS	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	IPS2433150405 CLH

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METALS ELN REPORT

Workgroup: WG1975485

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
WG1975485-6 SERDIL	09/24/24 10:15	Alexander Gonatas	NA	50	<2		09/24/24 10:15	10	94.5	09/24/24 13:15	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 25-SEP-24 04:51 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 12:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	0.00022	0.00020	0.00009	

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975270-1	**Date Collected**	: NA
Client ID	: WG1975270-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 12:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: MJR
Lab File ID	: WG1975491.pdf	**Instrument ID**	: NIC2
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 11:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/24/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 11:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/24/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 11:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/24/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 11:49
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/24/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 11:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/24/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 12:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/24/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 12:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/24/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 12:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/24/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975488-1	**Date Collected**	: NA
Client ID	: WG1975488-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/25/24 11:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/24/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 12:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 12:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 12:54
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 12:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 13:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 13:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 13:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

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

Form 1
METALS

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975270-6	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/25/24 12:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 3,245.1	**Analyst**	: JWN
Lab File ID	: WG1975930.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 245.1	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	0.00011	0.00020	0.0001	J

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879529-1			R1879529-3			R1879529-5		R1879529-7	
Date Analyzed :	09/24/24 10:51			09/24/24 11:33			09/24/24 12:22		09/24/24 13:01	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0029	95	0.0050	0.00500	100	0.00500	99	0.00500	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879996-1			R1879996-3			R1879996-5		R1879996-7	
Date Analyzed :	09/25/24 06:47			09/25/24 08:22			09/25/24 09:37		09/25/24 11:11	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0030	99	0.0050	0.00520	104	0.00520	104	0.00520	104

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879996-9			R1879996-11			
Date Analyzed :				09/25/24 11:56			09/25/24 12:36			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				**0.0050**	**0.00540**	**108**	**0.00520**	**104**		

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1879996-1			R1879996-3			R1879996-5		R1879996-7	
Date Analyzed :	09/25/24 06:47			09/25/24 08:22			09/25/24 09:37		09/25/24 11:11	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0030	99	0.0050	0.00520	104	0.00520	104	0.00520	104

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1879996-9			R1879996-11		R1879996-13	
Date Analyzed :				09/25/24 11:56			09/25/24 12:36		09/25/24 13:46	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00540	108	0.00520	104	0.00510	103

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1879529-2		R1879529-4		R1879529-6		R1879529-8		WG1975270-1	
Date Analyzed :	09/24/24 10:54		09/24/24 11:36		09/24/24 12:25		09/24/24 13:05		09/24/24 12:45	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1879996-2		R1879996-4		R1879996-6		R1879996-8		WG1975488-1	
Date Analyzed	:	09/25/24 06:50		09/25/24 08:25		09/25/24 09:40		09/25/24 11:14		09/25/24 11:26	
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury		0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:		R1879996-10		R1879996-12					
Date Analyzed	:		09/25/24 11:59		09/25/24 12:39					
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U				

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1879996-2	R1879996-4	R1879996-6	R1879996-8	
Date Analyzed :	09/25/24 06:50	09/25/24 08:25	09/25/24 09:40	09/25/24 11:14	
Parameter	mg/l Q	mg/l Q	mg/l Q	mg/l Q	Q
Mercury	0.0000910 U	0.0000910 U	0.0000910 U	0.0000910 U	

Form 3
Blanks

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1879996-10		R1879996-12		R1879996-14			
Date Analyzed :			09/25/24 11:59		09/25/24 12:39		09/25/24 13:49			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000910	U	0.0000910	U	0.0000910	U		

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975270-3	**MS Analysis Date**	: 09/24/24 12:55
Matrix Spike Dup	: WG1975270-4	**MSD Analysis Date**	: 09/24/24 12:58

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	0.00022	0.005	0.00459	87	0.005	0.00433	82	6	70-130	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975488-3	**MS Analysis Date**	: 09/25/24 11:36
Matrix Spike Dup	: WG1975488-4	**MSD Analysis Date**	: 09/25/24 11:39

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00471	94	0.005	0.00476	95	1	75-125	20

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: DUP_091824	**Matrix**	: WATER
Lab Sample ID	: L2453720-03		
Matrix Spike	: WG1975270-5	**MS Analysis Date**	: 09/25/24 12:16
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00479	96					70-130	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: DUP_091824	**Matrix**	: WATER
Lab Sample ID	: L2453720-03	**Analysis Date**	: 09/25/24 12:12
Dup Sample ID	: WG1975270-6	**DUP Analysis Date**	: 09/25/24 12:19

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	0.00011J	NC	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975270-2	**LCS Analysis Date**	: 09/24/24 12:48
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	0.00100	0.00100	100.					85-115	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975488-2	**LCS Analysis Date**	: 09/25/24 11:29
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	0.00100	0.00101	102.					85-115	20

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453720-02	09/23/24 22:31	-	25
WG1975270-1	09/23/24 22:31	-	25
WG1975270-2	09/23/24 22:31	-	25
WG1975270-3	09/23/24 22:31	-	25
WG1975270-4	09/23/24 22:31	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453720-01	09/24/24 10:58	-	25
L2453720-02	09/24/24 10:58	-	25
L2453720-03	09/24/24 10:58	-	25
L2453720-04	09/24/24 10:58	-	25
L2453720-06	09/24/24 10:58	-	25
L2453720-07	09/24/24 10:58	-	25
L2453720-08	09/24/24 10:58	-	25
L2453720-09	09/24/24 10:58	-	25
WG1975488-1	09/24/24 10:58	-	25
WG1975488-2	09/24/24 10:58	-	25
WG1975488-3	09/24/24 10:58	-	25
WG1975488-4	09/24/24 10:58	-	25

Form 12
Preparation Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Matrix	: WATER	**Prep Method**	: EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2453720-01	09/23/24 22:31	-	25
L2453720-03	09/23/24 22:31	-	25
L2453720-04	09/23/24 22:31	-	25
L2453720-06	09/23/24 22:31	-	25
L2453720-07	09/23/24 22:31	-	25
L2453720-08	09/23/24 22:31	-	25
L2453720-09	09/23/24 22:31	-	25
WG1975270-5	09/23/24 22:31	-	25
WG1975270-6	09/23/24 22:31	-	25

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC2	**Analysis Method**	: 3,245.1
Start Date	: 09/24/24 10:51	**End Date**	: 09/24/24 13:05

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1879529-1 ICV	1	10:51:14	X
R1879529-2 ICB	1	10:54:34	X
R1879529-3 CCV	1	11:33:34	X
R1879529-4 CCB	1	11:36:54	X
R1879529-5 CCV	1	12:22:02	X
R1879529-6 CCB	1	12:25:21	X
WG1975270-1 BLANK	1	12:45:13	X
WG1975270-2 LCS	1	12:48:31	X
L2453720-02	1	12:51:50	X
WG1975270-3 MS	1	12:55:08	X
WG1975270-4 MSD	1	12:58:27	X
R1879529-7 CCV	1	13:01:45	X
R1879529-8 CCB	1	13:05:03	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Analysis Method**	: 3,245.1
Start Date	: 09/25/24 06:47	**End Date**	: 09/25/24 12:39

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1879996-1 ICV	1	06:47:08	X
R1879996-2 ICB	1	06:50:28	X
R1879996-3 CCV	1	08:22:08	X
R1879996-4 CCB	1	08:25:27	X
R1879996-5 CCV	1	09:37:37	X
R1879996-6 CCB	1	09:40:56	X
R1879996-7 CCV	1	11:11:14	X
R1879996-8 CCB	1	11:14:32	X
WG1975488-1 BLANK	1	11:26:21	X
WG1975488-2 LCS	1	11:29:39	X
L2453720-02	1	11:32:58	X
WG1975488-3 MS	1	11:36:16	X
WG1975488-4 MSD	1	11:39:34	X
L2453720-01	1	11:42:52	X
L2453720-03	1	11:46:10	X
L2453720-04	1	11:49:28	X
L2453720-06	1	11:52:46	X
R1879996-9 CCV	1	11:56:04	X
R1879996-10 CCB	1	11:59:21	X
L2453720-07	1	12:03:03	X
L2453720-08	1	12:06:21	X
L2453720-09	1	12:09:39	X
R1879996-11 CCV	1	12:36:02	X
R1879996-12 CCB	1	12:39:20	X

Form 13
Analysis Run Log

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Instrument ID	: NIC1	**Analysis Method**	: 3,245.1
Start Date	: 09/25/24 06:47	**End Date**	: 09/25/24 13:49

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1879996-1 ICV	1	06:47:08	X
R1879996-2 ICB	1	06:50:28	X
R1879996-3 CCV	1	08:22:08	X
R1879996-4 CCB	1	08:25:27	X
R1879996-5 CCV	1	09:37:37	X
R1879996-6 CCB	1	09:40:56	X
R1879996-7 CCV	1	11:11:14	X
R1879996-8 CCB	1	11:14:32	X
R1879996-9 CCV	1	11:56:04	X
R1879996-10 CCB	1	11:59:21	X
L2453720-03	1	12:12:57	X
WG1975270-5 MS	1	12:16:15	X
WG1975270-6 DUP	1	12:19:33	X
R1879996-11 CCV	1	12:36:02	X
R1879996-12 CCB	1	12:39:20	X
L2453720-01	1	12:51:24	X
L2453720-04	1	12:54:42	X
L2453720-06	1	12:57:59	X
L2453720-07	1	13:01:17	X
L2453720-08	1	13:04:34	X
L2453720-09	1	13:07:52	X
R1879996-13 CCV	1	13:46:09	X
R1879996-14 CCB	1	13:49:27	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Title :
Date : 9/24/2024
Name :

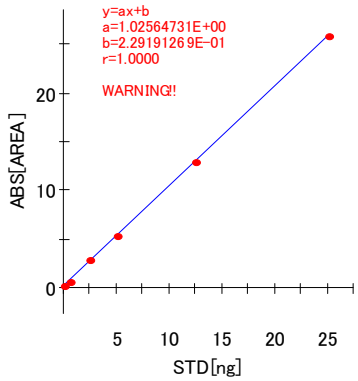
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.2127	-0.0161	-	09/24/2024 10:31	MJR,NIC2
2	0.200	2.500	2.500	2.500	0.500	0.7486	0.5064	1.3	09/24/2024 10:34	MJR,NIC2
3	1.000	2.500	2.500	2.500	2.500	2.9065	2.6104	4.4	09/24/2024 10:37	MJR,NIC2
4	2.000	2.500	2.500	2.500	5.000	5.3135	4.9572	0.9	09/24/2024 10:41	MJR,NIC2
5	5.000	2.500	2.500	2.500	12.500	12.9364	12.3895	0.9	09/24/2024 10:44	MJR,NIC2
6	10.000	2.500	2.500	2.500	25.000	25.9244	25.0527	0.2	09/24/2024 10:47	MJR,NIC2

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.5478	7.1356	2.854	-	09/24/2024 10:51	MJR,NIC2
2	ICB	2.500	2.500	2.500	0.2176	-0.0113	-0.005	-	09/24/2024 10:54	MJR,NIC2
3	0.2 PPB	2.500	2.500	2.500	0.7587	0.5163	0.207	-	09/24/2024 10:57	MJR,NIC2
4	WG1975123-1 WG1975123	2.500	2.500	2.500	0.2791	0.0487	0.019	-	09/24/2024 11:03	MJR,NIC2
5	WG1975123-2 WG1975123	2.500	2.500	2.500	2.8752	2.5798	1.032	-	09/24/2024 11:06	MJR,NIC2
6	L2453204-01 WG1975123	2.500	2.500	2.500	1.8196	1.5506	0.620	-	09/24/2024 11:10	MJR,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1975123-3 WG1975123	2.500	2.500	2.500	15.1216	14.5200	5.808	-	09/24/2024 11:13	MJR,NIC2
8	WG1975123-4 WG1975123	2.500	2.500	2.500	1.9044	1.6333	0.653	-	09/24/2024 11:16	MJR,NIC2
9	L2453204-02 WG1975123	2.500	2.500	2.500	0.6687	0.4285	0.171	-	09/24/2024 11:20	MJR,NIC2
10	L2453204-03 WG1975123	2.500	2.500	2.500	0.6625	0.4225	0.169	-	09/24/2024 11:23	MJR,NIC2
11	L2453209-01 WG1975123	2.500	2.500	2.500	0.7670	0.5244	0.210	-	09/24/2024 11:26	MJR,NIC2
12	L2453209-03 WG1975123	2.500	2.500	2.500	0.9128	0.6665	0.267	-	09/24/2024 11:30	MJR,NIC2
13	Check STD(5ug/L)	2.500	2.500	2.500	13.0219	12.4728	4.989	99.8	09/24/2024 11:33	MJR,NIC2
14	Check Blank	2.500	2.500	2.500	0.2767	0.0463	0.019	-	09/24/2024 11:36	MJR,NIC2
15	L2453144-01 WG1975123	2.500	2.500	2.500	1.3412	1.0842	0.434	-	09/24/2024 11:40	MJR,NIC2
16	L2453211-02 WG1975123	2.500	2.500	2.500	1.0050	0.7564	0.303	-	09/24/2024 11:43	MJR,NIC2
17	I2453238-01 WG1975123	2.500	2.500	2.500	1.3421	1.0851	0.434	-	09/24/2024 11:46	MJR,NIC2
18	I2453305-01 WG1975123	2.500	2.500	2.500	0.6983	0.4574	0.183	-	09/24/2024 11:50	MJR,NIC2
19	I2453305-02 WG1975123	2.500	2.500	2.500	0.6261	0.3870	0.155	-	09/24/2024 11:53	MJR,NIC2
20	I2453305-03 WG1975123	2.500	2.500	2.500	0.6573	0.4174	0.167	-	09/24/2024 11:56	MJR,NIC2
21	I2453566-01 WG1975123	2.500	2.500	2.500	0.6324	0.3931	0.157	-	09/24/2024 12:00	MJR,NIC2
22	I2453721-02 WG1975123	2.500	2.500	2.500	0.6050	0.3664	0.147	-	09/24/2024 12:03	MJR,NIC2
23	I2453721-03 WG1975123	2.500	2.500	2.500	0.6224	0.3834	0.153	-	09/24/2024 12:06	MJR,NIC2
24	WG1975116-1 WG1975116	2.500	2.500	2.500	0.3970	0.1636	0.065	-	09/24/2024 12:18	MJR,NIC2
25	Check STD(5ug/L)	2.500	2.500	2.500	12.9397	12.3927	4.957	99.1	09/24/2024 12:22	MJR,NIC2
26	Check Blank	2.500	2.500	2.500	0.2785	0.0481	0.019	-	09/24/2024 12:25	MJR,NIC2
27	WG1975116-2 WG1975116	2.500	2.500	2.500	2.8047	2.5111	1.004	-	09/24/2024 12:28	MJR,NIC2
28	I2454256-01 WG1975116	2.500	2.500	2.500	0.5635	0.3259	0.130	-	09/24/2024 12:31	MJR,NIC2
29	WG1975116-3 WG1975116	2.500	2.500	2.500	12.4878	11.9521	4.781	-	09/24/2024 12:35	MJR,NIC2
30	WG1975116-4 WG1975116	2.500	2.500	2.500	0.5175	0.2811	0.112	-	09/24/2024 12:38	MJR,NIC2
31	I2454257-01 WG1975116	2.500	2.500	2.500	0.3937	0.1604	0.064	-	09/24/2024 12:41	MJR,NIC2
32	WG1975270-1 WG1975270	2.500	2.500	2.500	0.4599	0.2249	0.090	-	09/24/2024 12:45	MJR,NIC2
33	WG1975270-2 WG1975270	2.500	2.500	2.500	2.7973	2.5039	1.002	-	09/24/2024 12:48	MJR,NIC2
34	L2453720-02 WG1975270	2.500	2.500	2.500	0.8117	0.5679	0.227	-	09/24/2024 12:51	MJR,NIC2
35	WG1975270-3 WG1975270	2.500	2.500	2.500	12.0041	11.4805	4.592	-	09/24/2024 12:55	MJR,NIC2
36	WG1975270-4 WG1975270	2.500	2.500	2.500	11.3326	10.8258	4.330	-	09/24/2024 12:58	MJR,NIC2
37	Check STD(5ug/L)	2.500	2.500	2.500	13.0319	12.4826	4.993	99.9	09/24/2024 13:01	MJR,NIC2
38	Check Blank	2.500	2.500	2.500	0.2771	0.0467	0.019	-	09/24/2024 13:05	MJR,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	L2454223-01 WG1975270	2.500	2.500	2.500	0.4368	0.2024	0.081	-	09/24/2024 13:09	MJR,NIC2
40	L2453313-01 WG1975270	2.500	2.500	2.500	1.6167	1.3528	0.541	-	09/24/2024 13:13	MJR,NIC2
41	WG1975151-1 WG1975151	2.500	2.500	2.500	0.4275	0.1933	0.077	-	09/24/2024 13:16	MJR,NIC2
42	WG1975151-2 WG1975151	2.500	2.500	2.500	2.8103	2.5166	1.007	-	09/24/2024 13:19	MJR,NIC2
43	L2453874-02 WG1975151	2.500	2.500	2.500	0.6507	0.4110	0.164	-	09/24/2024 13:23	MJR,NIC2
44	WG1975151-3 WG1975151	2.500	2.500	2.500	12.2683	11.7381	4.695	-	09/24/2024 13:26	MJR,NIC2
45	WG1975151-4 WG1975151	2.500	2.500	2.500	0.6042	0.3656	0.146	-	09/24/2024 13:29	MJR,NIC2
46	WG1975500-1 WG1975500	2.500	2.500	2.500	0.4337	0.1994	0.080	-	09/24/2024 13:32	DJR,NIC2
47	WG1975500-2 WG1975500	2.500	2.500	2.500	2.7688	2.4761	0.990	-	09/24/2024 13:36	DJR,NIC2
48	I2409778-150 WG1975500	2.500	2.500	2.500	0.2987	0.0678	0.027	-	09/24/2024 13:39	DJR,NIC2
49	Check STD(5ug/L)	2.500	2.500	2.500	13.0388	12.4893	4.996	99.9	09/24/2024 13:42	DJR,NIC2
50	Check Blank	2.500	2.500	2.500	0.2759	0.0455	0.018	-	09/24/2024 13:46	DJR,NIC2
51	WG1975500-3 WG1975500	2.500	2.500	2.500	11.6868	11.1711	4.468	-	09/24/2024 13:59	DJR,NIC2
52	WG1975500-4 WG1975500	2.500	2.500	2.500	0.3985	0.1651	0.066	-	09/24/2024 14:02	DJR,NIC2
53	I2453167-01 WG1975500	2.500	2.500	2.500	0.3691	0.1364	0.055	-	09/24/2024 14:05	DJR,NIC2
54	I2453547-01 WG1975164	2.500	2.500	2.500	0.4104	0.1767	0.071	-	09/24/2024 14:09	MJR,NIC2
55	I2453547-02 WG1975164	2.500	2.500	2.500	0.3722	0.1394	0.056	-	09/24/2024 14:12	MJR,NIC2
56	L2453342-06 WG1975270	2.500	2.500	2.500	0.2257	-0.0034	-0.001	-	09/24/2024 14:15	MJR,NIC2
57	L2453250-01 WG1974310	2.500	2.500	2.500	0.2193	-0.0096	-0.004	-	09/24/2024 14:19	MJR,NIC2
58	L2453317-01 WG1974310	2.500	2.500	2.500	0.1303	-0.0964	-0.039	-	09/24/2024 14:22	MJR,NIC2
59	L2453320-01 WG1974310	2.500	2.500	2.500	0.1506	-0.0766	-0.031	-	09/24/2024 14:25	MJR,NIC2
60	L2453433-01 WG1974310	2.500	2.500	2.500	0.5690	0.3313	0.133	-	09/24/2024 14:29	MJR,NIC2
61	Check STD(5ug/L)	2.500	2.500	2.500	13.0327	12.4833	4.993	99.9	09/24/2024 14:32	MJR,NIC2
62	Check Blank	2.500	2.500	2.500	0.2709	0.0407	0.016	-	09/24/2024 14:35	MJR,NIC2
63	L2453342-05 WG1973832	2.500	2.500	2.500	0.1831	-0.0449	-0.018	-	09/24/2024 15:16	MJR,NIC2
64	WG1973832-5 WG1973832	2.500	2.500	2.500	12.1209	11.5943	4.638	-	09/24/2024 15:20	MJR,NIC2
65	WG1973832-6 WG1973832	2.500	2.500	2.500	11.8745	11.3541	4.542	-	09/24/2024 15:23	MJR,NIC2
66	L2453342-01 WG1973832	2.500	2.500	2.500	0.1770	-0.0509	-0.020	-	09/24/2024 15:26	MJR,NIC2
67	L2453342-02 WG1973832	2.500	2.500	2.500	2.4262	2.1421	0.857	-	09/24/2024 15:29	MJR,NIC2
68	L2453342-03 WG1973832	2.500	2.500	2.500	0.1707	-0.0570	-0.023	-	09/24/2024 15:33	MJR,NIC2
69	L2453342-04 WG1973832	2.500	2.500	2.500	0.1635	-0.0640	-0.026	-	09/24/2024 15:36	MJR,NIC2
70	L2453342-07 WG1973832	2.500	2.500	2.500	0.1575	-0.0699	-0.028	-	09/24/2024 15:39	MJR,NIC2

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	L2453342-08 WG1973832	2.500	2.500	2.500	0.1640	-0.0636	-0.025	-	09/24/2024 15:43	MJR,NIC2
72	L2453342-10 WG1973832	2.500	2.500	2.500	0.1567	-0.0707	-0.028	-	09/24/2024 15:46	MJR,NIC2
73	Check STD(5ug/L)	2.500	2.500	2.500	13.0550	12.5051	5.002	100.0	09/24/2024 15:49	MJR,NIC2
74	Check Blank	2.500	2.500	2.500	0.2733	0.0430	0.017	-	09/24/2024 15:53	MJR,NIC2

Title :
Date : 9/25/2024
Name :

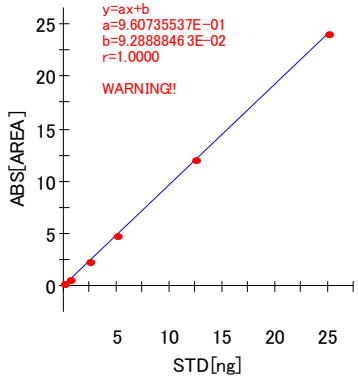
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.1661	0.0762	-	09/25/2024 06:10	JWN,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.6030	0.5310	6.2	09/25/2024 06:14	JWN,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.4132	2.4151	3.4	09/25/2024 06:35	JWN,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.8752	4.9778	0.4	09/25/2024 06:20	JWN,NIC1
5	5.000	2.500	2.500	2.500	12.500	12.078(	12.4752	0.2	09/25/2024 06:24	JWN,NIC1
6	10.000	2.500	2.500	2.500	25.000	24.135(	25.0247	0.1	09/25/2024 06:27	JWN,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.2314	7.4303	2.972	-	09/25/2024 06:47	JWN,NIC1
2	ICB	2.500	2.500	2.500	0.1810	0.0917	0.037	-	09/25/2024 06:50	JWN,NIC1
3	0.2 PPB	2.500	2.500	2.500	0.6087	0.5369	0.215	-	09/25/2024 07:04	JWN,NIC1
4	wg1975611-1 wg1975611	2.500	2.500	2.500	0.2744	0.1889	0.076	-	09/25/2024 07:52	JWN,NIC1
5	wg1975611-2 wg1975611	2.500	2.500	2.500	2.1496	2.1408	0.856	-	09/25/2024 07:55	JWN,NIC1
6	I2451838-07 wg1975611	2.500	2.500	2.500	0.8530	0.7912	0.316	-	09/25/2024 07:58	JWN,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	wg1975611-3 wg1975611	2.500	2.500	2.500	11.5970	11.9743	4.790	-	09/25/2024 08:02	JWN,NIC1
8	wg1975611-4 wg1975611	2.500	2.500	2.500	0.2570	0.1708	0.068	-	09/25/2024 08:05	JWN,NIC1
9	I2451838-01 wg1975611	2.500	2.500	2.500	0.1954	0.1067	0.043	-	09/25/2024 08:08	JWN,NIC1
10	wg1975692-1 wg1975692	2.500	2.500	2.500	0.1481	0.0575	0.023	-	09/25/2024 08:12	JWN,NIC1
11	wg1975692-2 wg1975692	2.500	2.500	2.500	2.3749	2.3753	0.950	-	09/25/2024 08:15	JWN,NIC1
12	L2453845-01 wg1975692	2.500	2.500	2.500	0.2260	0.1386	0.055	-	09/25/2024 08:18	JWN,NIC1
13	Check STD(5ug/L)	2.500	2.500	2.500	12.6331	13.0527	5.221	104.4	09/25/2024 08:22	JWN,NIC1
14	Check Blank	2.500	2.500	2.500	0.1739	0.0843	0.034	-	09/25/2024 08:25	JWN,NIC1
15	wg1975692-3 wg1975692	2.500	2.500	2.500	11.0274	11.3814	4.553	-	09/25/2024 08:30	JWN,NIC1
16	wg1975692-4 wg1975692	2.500	2.500	2.500	0.2037	0.1153	0.046	-	09/25/2024 08:33	JWN,NIC1
17	XI2451838-07 wg1975611	2.500	2.500	2.500	0.8628	0.8014	0.321	-	09/25/2024 09:11	JWN,NIC1
18	Xwg1975611-4 wg1975611	2.500	2.500	2.500	0.2988	0.2143	0.086	-	09/25/2024 09:14	JWN,NIC1
19	L2453601-01 wg1975151	2.500	2.500	2.500	0.5165	0.4409	0.176	-	09/25/2024 09:17	JWN,NIC1
20	L2453645-03 wg1975151	2.500	2.500	2.500	0.4447	0.3662	0.146	-	09/25/2024 09:21	JWN,NIC1
21	I2453873-01 wg1975151	2.500	2.500	2.500	0.4337	0.3547	0.142	-	09/25/2024 09:24	JWN,NIC1
22	I2453896-01 wg1975151	2.500	2.500	2.500	0.3592	0.2772	0.111	-	09/25/2024 09:27	JWN,NIC1
23	L2454101-01 wg1975151	2.500	2.500	2.500	0.3799	0.2987	0.119	-	09/25/2024 09:31	JWN,NIC1
24	I2454432-01 wg1975151	2.500	2.500	2.500	0.3974	0.3170	0.127	-	09/25/2024 09:34	JWN,NIC1
25	Check STD(5ug/L)	2.500	2.500	2.500	12.5313	12.9468	5.179	103.6	09/25/2024 09:37	JWN,NIC1
26	Check Blank	2.500	2.500	2.500	0.1680	0.0782	0.031	-	09/25/2024 09:40	JWN,NIC1
27	I2454436-02 wg1975151	2.500	2.500	2.500	0.4039	0.3237	0.129	-	09/25/2024 09:46	JWN,NIC1
28	I2454436-05 wg1975151	2.500	2.500	2.500	0.3449	0.2623	0.105	-	09/25/2024 09:49	JWN,NIC1
29	WG1975947-1 WG1975947	2.500	2.500	2.500	0.1816	0.0923	0.037	-	09/25/2024 10:44	JWN,NIC1
30	WG1975947-2 WG1975947	2.500	2.500	2.500	2.3827	2.3834	0.953	-	09/25/2024 10:48	JWN,NIC1
31	I2453858-02 WG1975947	2.500	2.500	2.500	0.1817	0.0924	0.037	-	09/25/2024 10:51	JWN,NIC1
32	WG1975947-3 WG1975947	2.500	2.500	2.500	10.9893	11.3417	4.537	-	09/25/2024 10:54	JWN,NIC1
33	WG1975947-4 WG1975947	2.500	2.500	2.500	0.1658	0.0759	0.030	-	09/25/2024 10:58	JWN,NIC1
34	I2454549-02 WG1975947	2.500	2.500	2.500	0.1821	0.0929	0.037	-	09/25/2024 11:01	JWN,NIC1
35	I2453858-01 WG1975947	2.500	2.500	2.500	0.1898	0.1009	0.040	-	09/25/2024 11:04	JWN,NIC1
36	I2453858-03 WG1975947	2.500	2.500	2.500	0.1620	0.0719	0.029	-	09/25/2024 11:07	JWN,NIC1
37	Check STD(5ug/L)	2.500	2.500	2.500	12.6019	13.0202	5.208	104.2	09/25/2024 11:11	JWN,NIC1
38	Check Blank	2.500	2.500	2.500	0.1662	0.0763	0.031	-	09/25/2024 11:14	JWN,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	I2453858-04 WG1975947	2.500	2.500	2.500	0.1661	0.0762	0.030	-	09/25/2024 11:23	JWN,NIC1
40	wg1975488-1 wg1975488	2.500	2.500	2.500	0.2370	0.1500	0.060	-	09/25/2024 11:26	JWN,NIC1
41	wg1975488-2 wg1975488	2.500	2.500	2.500	2.5389	2.5460	1.018	-	09/25/2024 11:29	JWN,NIC1
42	I2453720-02 wg1975488	2.500	2.500	2.500	0.2826	0.1975	0.079	-	09/25/2024 11:32	JWN,NIC1
43	wg1975488-3 wg1975488	2.500	2.500	2.500	11.4194	11.7894	4.716	-	09/25/2024 11:36	JWN,NIC1
44	wg1975488-4 wg1975488	2.500	2.500	2.500	11.5373	11.9121	4.765	-	09/25/2024 11:39	JWN,NIC1
45	I2453720-01 wg1975488	2.500	2.500	2.500	0.2558	0.1696	0.068	-	09/25/2024 11:42	JWN,NIC1
46	I2453720-03 wg1975488	2.500	2.500	2.500	0.2464	0.1598	0.064	-	09/25/2024 11:46	JWN,NIC1
47	I2453720-04 wg1975488	2.500	2.500	2.500	0.2332	0.1460	0.058	-	09/25/2024 11:49	JWN,NIC1
48	I2453720-06 wg1975488	2.500	2.500	2.500	0.2364	0.1494	0.060	-	09/25/2024 11:52	JWN,NIC1
49	Check STD(5ug/L)	2.500	2.500	2.500	13.0289	13.4647	5.386	107.7	09/25/2024 11:56	JWN,NIC1
50	Check Blank	2.500	2.500	2.500	0.1700	0.0803	0.032	-	09/25/2024 11:59	JWN,NIC1
51	I2453720-07 wg1975488	2.500	2.500	2.500	0.2370	0.1500	0.060	-	09/25/2024 12:03	JWN,NIC1
52	I2453720-08 wg1975488	2.500	2.500	2.500	0.2305	0.1432	0.057	-	09/25/2024 12:06	JWN,NIC1
53	I2453720-09 wg1975488	2.500	2.500	2.500	0.2371	0.1501	0.060	-	09/25/2024 12:09	JWN,NIC1
54	L2453720-03 WG1975270	2.500	2.500	2.500	0.1081	0.0158	0.006	-	09/25/2024 12:12	JWN,NIC1
55	WG1975270-5 WG1975270	2.500	2.500	2.500	11.5988	11.9761	4.790	-	09/25/2024 12:16	JWN,NIC1
56	WG1975270-6 WG1975270	2.500	2.500	2.500	0.3572	0.2751	0.110	-	09/25/2024 12:19	JWN,NIC1
57	L2452544-01 WG1975270	2.500	2.500	2.500	0.1598	0.0696	0.028	-	09/25/2024 12:22	JWN,NIC1
58	L2452544-02 WG1975270	2.500	2.500	2.500	0.3803	0.2992	0.120	-	09/25/2024 12:26	JWN,NIC1
59	L2452544-03 WG1975270	2.500	2.500	2.500	0.1866	0.0975	0.039	-	09/25/2024 12:29	JWN,NIC1
60	L2452544-04 WG1975270	2.500	2.500	2.500	0.3920	0.3113	0.125	-	09/25/2024 12:32	JWN,NIC1
61	Check STD(5ug/L)	2.500	2.500	2.500	12.5644	12.9812	5.192	103.8	09/25/2024 12:36	JWN,NIC1
62	Check Blank	2.500	2.500	2.500	0.1782	0.0888	0.036	-	09/25/2024 12:39	JWN,NIC1
63	L2453672-01 WG1975270	2.500	2.500	2.500	0.2291	0.1418	0.057	-	09/25/2024 12:48	JWN,NIC1
64	L2453720-01 WG1975270	2.500	2.500	2.500	0.2400	0.1531	0.061	-	09/25/2024 12:51	JWN,NIC1
65	L2453720-04 WG1975270	2.500	2.500	2.500	0.2469	0.1603	0.064	-	09/25/2024 12:54	JWN,NIC1
66	L2453720-06 WG1975270	2.500	2.500	2.500	0.2590	0.1729	0.069	-	09/25/2024 12:57	JWN,NIC1
67	L2453720-07 WG1975270	2.500	2.500	2.500	0.2197	0.1320	0.053	-	09/25/2024 13:01	JWN,NIC1
68	L2453720-08 WG1975270	2.500	2.500	2.500	0.2315	0.1443	0.058	-	09/25/2024 13:04	JWN,NIC1
69	L2453720-09 WG1975270	2.500	2.500	2.500	0.2345	0.1474	0.059	-	09/25/2024 13:07	JWN,NIC1
70	WG1973073-1 WG1973073	2.500	2.500	2.500	0.2316	0.1444	0.058	-	09/25/2024 13:36	JWN,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	xWG1973073-2 WG1973073	2.500	2.500	2.500	1.9838	1.9682	0.787	-	09/25/2024 13:39	JWN,NIC1
72	L2453227-01 WG1973073	2.500	2.500	2.500	0.2988	0.2143	0.086	-	09/25/2024 13:42	JWN,NIC1
73	Check STD(5ug/L)	2.500	2.500	2.500	12.4307	12.8420	5.137	102.7	09/25/2024 13:46	JWN,NIC1
74	Check Blank	2.500	2.500	2.500	0.1736	0.0840	0.034	-	09/25/2024 13:49	JWN,NIC1
75	WG1973073-3 WG1973073	2.500	2.500	2.500	11.0715	11.4273	4.571	-	09/25/2024 13:57	JWN,NIC1
76	WG1973073-4 WG1973073	2.500	2.500	2.500	0.3265	0.2432	0.097	-	09/25/2024 14:00	JWN,NIC1
77	WG1975280-1 WG1975280	2.500	2.500	2.500	0.3140	0.2301	0.092	-	09/25/2024 14:12	JWN,NIC1
78	WG1975280-2 WG1975280	2.500	2.500	2.500	2.6284	2.6391	1.056	-	09/25/2024 14:15	JWN,NIC1
79	L2453972-01 WG1975280	2.500	2.500	2.500	0.2836	0.1985	0.079	-	09/25/2024 14:19	JWN,NIC1
80	WG1975280-3 WG1975280	2.500	2.500	2.500	12.2482	12.6521	5.061	-	09/25/2024 14:22	JWN,NIC1
81	WG1975280-4 WG1975280	2.500	2.500	2.500	0.3024	0.2181	0.087	-	09/25/2024 14:25	JWN,NIC1
82	L2453261-01 WG1975280	2.500	2.500	2.500	0.3342	0.2512	0.100	-	09/25/2024 14:29	JWN,NIC1
83	L2453261-02 WG1975280	2.500	2.500	2.500	0.3003	0.2159	0.086	-	09/25/2024 14:32	JWN,NIC1
84	WG1973073-2 WG1973073	2.500	2.500	2.500	2.5563	2.5641	1.026	-	09/25/2024 14:59	JWN,NIC1
85	Check STD(5ug/L)	2.500	2.500	2.500	12.2970	12.7029	5.081	101.6	09/25/2024 15:04	JWN,NIC1
86	Check Blank	2.500	2.500	2.500	0.1800	0.0907	0.036	-	09/25/2024 15:08	JWN,NIC1

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

ERA
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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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ERA
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Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

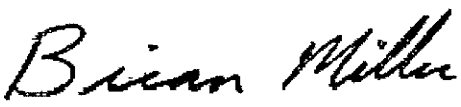
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME	CURVE: WG1973972
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	ICV	
2	8	ICB	
3	9	0.2 PPB	
4	10	WG1975123-1	WG1975123
5	11	WG1975123-2	WG1975123
6	12	L2453204-01	WG1975123
7	13	WG1975123-3	WG1975123
8	14	WG1975123-4	WG1975123
9	15	L2453204-02	WG1975123
10	16	L2453204-03	WG1975123
11	17	L2453209-01	WG1975123
12	18	L2453209-03	WG1975123
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	L2453144-01	WG1975123
16	22	L2453211-02	WG1975123
17	23	l2453238-01	WG1975123
18	24	l2453305-01	WG1975123
19	25	l2453305-02	WG1975123
20	26	l2453305-03	WG1975123
21	27	l2453566-01	WG1975123
22	28	l2453721-02	WG1975123
23	29	l2453721-03	WG1975123
24	30	WG1975116-1	WG1975116
25	31	Check STD(5ug/L)	
26	32	Check Blank	
27	33	WG1975116-2	WG1975116
28	34	l2454256-01	WG1975116
29	35	WG1975116-3	WG1975116
30	36	WG1975116-4	WG1975116
31	37	l2454257-01	WG1975116
32	38	WG1975270-1	WG1975270
33	39	WG1975270-2	WG1975270
34	40	L2453720-02	WG1975270
35	41	WG1975270-3	WG1975270
36	42	WG1975270-4	WG1975270
37	43	Check STD(5ug/L)	

38	44	Check Blank
39	45	L2454223-01 WG1975270
40	46	L2453313-01 WG1975270
41	47	WG1975151-1 WG1975151
42	48	WG1975151-2 WG1975151
43	49	L2453874-02 WG1975151
44	50	WG1975151-3 WG1975151
45	51	WG1975151-4 WG1975151
46	52	WG1975500-1 WG1975500
47	53	WG1975500-2 WG1975500
48	54	l2409778-150 WG1975500
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	WG1975500-3 WG1975500
52	58	WG1975500-4 WG1975500
53	59	l2453167-01 WG1975500
54	60	l2453547-01 WG1975164
55	61	l2453547-02 WG1975164
56	62	L2453342-06 WG1975270
57	63	L2453250-01 WG1974310
58	64	L2453317-01 WG1974310
59	65	L2453320-01 WG1974310
60	66	L2453433-01 WG1974310
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	L2453342-05 WG1973832
64	70	WG1973832-5 WG1973832
65	71	WG1973832-6 WG1973832
66	72	L2453342-01 WG1973832
67	73	L2453342-02 WG1973832
68	74	L2453342-03 WG1973832
69	75	L2453342-04 WG1973832
70	76	L2453342-07 WG1973832
71	77	L2453342-08 WG1973832
72	78	L2453342-10 WG1973832
73	79	Check STD(5ug/L)
74	80	Check Blank

No.	Sample No.	NAME	CURVE: WG1974118
1	1	STD	
2	2	STD	
3	3	STD	
4	4	STD	
5	5	STD	
6	6	STD	
1	7	ICV	
2	8	ICB	
3	9	0.2 PPB	
4	10	wg1975611-1 wg1975611	
5	11	wg1975611-2 wg1975611	
6	12	l2451838-07 wg1975611	
7	13	wg1975611-3 wg1975611	
8	14	wg1975611-4 wg1975611	
9	15	l2451838-01 wg1975611	
10	16	wg1975692-1 wg1975692	
11	17	wg1975692-2 wg1975692	
12	18	L2453845-01 wg1975692	
13	19	Check STD(5ug/L)	
14	20	Check Blank	
15	21	wg1975692-3 wg1975692	
16	22	wg1975692-4 wg1975692	
17	23	Xl2451838-07 wg1975611	
18	24	Xwg1975611-4 wg1975611	
19	25	L2453601-01 wg1975151	
20	26	L2453645-03 wg1975151	
21	27	l2453873-01 wg1975151	
22	28	l2453896-01 wg1975151	
23	29	L2454101-01 wg1975151	
24	30	l2454432-01 wg1975151	
25	31	Check STD(5ug/L)	
26	32	Check Blank	
27	33	l2454436-02 wg1975151	
28	34	l2454436-05 wg1975151	
29	35	WG1975947-1 WG1975947	
30	36	WG1975947-2 WG1975947	
31	37	l2453858-02 WG1975947	
32	38	WG1975947-3 WG1975947	
33	39	WG1975947-4 WG1975947	
34	40	l2454549-02 WG1975947	
35	41	l2453858-01 WG1975947	
36	42	l2453858-03 WG1975947	
37	43	Check STD(5ug/L)	

38	44	Check Blank
39	45	l2453858-04 WG1975947
40	46	wg1975488-1 wg1975488
41	47	wg1975488-2 wg1975488
42	48	l2453720-02 wg1975488
43	49	wg1975488-3 wg1975488
44	50	wg1975488-4 wg1975488
45	51	l2453720-01 wg1975488
46	52	l2453720-03 wg1975488
47	53	l2453720-04 wg1975488
48	54	l2453720-06 wg1975488
49	55	Check STD(5ug/L)
50	56	Check Blank
51	57	l2453720-07 wg1975488
52	58	l2453720-08 wg1975488
53	59	l2453720-09 wg1975488
54	60	L2453720-03 WG1975270
55	61	WG1975270-5 WG1975270
56	62	WG1975270-6 WG1975270
57	63	L2452544-01 WG1975270
58	64	L2452544-02 WG1975270
59	65	L2452544-03 WG1975270
60	66	L2452544-04 WG1975270
61	67	Check STD(5ug/L)
62	68	Check Blank
63	69	L2453672-01 WG1975270
64	70	L2453720-01 WG1975270
65	71	L2453720-04 WG1975270
66	72	L2453720-06 WG1975270
67	73	L2453720-07 WG1975270
68	74	L2453720-08 WG1975270
69	75	L2453720-09 WG1975270
70	76	WG1973073-1 WG1973073
71	77	xWG1973073-2 WG1973073
72	78	L2453227-01 WG1973073
73	79	Check STD(5ug/L)
74	80	Check Blank
75	1	WG1973073-3 WG1973073
76	2	WG1973073-4 WG1973073
77	3	WG1975280-1 WG1975280
78	4	WG1975280-2 WG1975280
79	5	L2453972-01 WG1975280
80	6	WG1975280-3 WG1975280
81	7	WG1975280-4 WG1975280

82	8	L2453261-01	WG1975280
83	9	L2453261-02	WG1975280
84	10	WG1973073-2	WG1973073
85	11	Check STD(5ug/L)	
86	12	Check Blank	

METALS ELN REPORT

Workgroup: WG1975270

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24011095	H2SO4	24001335	METALS	METSPIKE	HG2438170807AJTV1HG2438170807AJTV1	METSPIKE	HG2438170832007AJTV1	348

Additional Reagent/Std	K2O8S2	PS2438191125AJT
	KMnO4	PP2438191900CLH
	NaCl-NH2OH.HCl	HH2438191515MJR
		ICV2436051025CME

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2452544-01 SAMP	09/23/24 22:31	Maisie Mcqueen	2.5		09/23/24 22:31	8	95.9	09/24/24 00:31	25	10X DILUTION KMNO4
L2452544-02 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2452544-03 SAMP	09/23/24 22:31	Maisie Mcqueen	12.5		09/23/24 22:31	8	95.9	09/24/24 00:31	25	2X DILUTION KMNO4
L2452544-04 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453313-01 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453342-06 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453672-01 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-01 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-02 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-03 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-04 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	

Reported: 25-SEP-24 03:49 PM

METALS ELN REPORT

Workgroup: WG1975270

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2453720-06 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-07 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-08 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2453720-09 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
L2454223-01 SAMP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	
WG1975270-1 BLANK	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	ELN:cme
WG1975270-2 LCS	09/23/24 22:31	Maisie Mcqueen	25	0.25	09/23/24 22:31	8	95.9	09/24/24 00:31	25	ELN: ADG
WG1975270-3 MS	09/23/24 22:31	Maisie Mcqueen	25	1.25	09/23/24 22:31	8	95.9	09/24/24 00:31	25	
WG1975270-4 MSD	09/23/24 22:31	Maisie Mcqueen	25	1.25	09/23/24 22:31	8	95.9	09/24/24 00:31	25	
WG1975270-5 MS	09/23/24 22:31	Maisie Mcqueen	25	1.25	09/23/24 22:31	8	95.9	09/24/24 00:31	25	
WG1975270-6 DUP	09/23/24 22:31	Maisie Mcqueen	25		09/23/24 22:31	8	95.9	09/24/24 00:31	25	

Reported: 25-SEP-24 03:49 PM

METALS ELN REPORT

Workgroup: WG1975270

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 25-SEP-24 03:49 PM

METALS ELN REPORT

Workgroup: WG1975488

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24011095	H2SO4	24001335	METALS	METSPIKE	HG24381708 07AJTV1	METSPIKE	HG24381708 07AJTV1	320, 344

Additional Reagent/Std	K2O8S2	PS2438191125AJT
	KMnO4	PP2439240820AJT
	NaCl-NH2OH.HCl	HH2438191515MJR
		ICV2436051025CME

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2453720-01 SAMP	09/24/24 10:58	Alexander Gonatas	NA	25		09/24/24 10:58	8	96.0	09/24/24 12:58	25	Container F
L2453720-02 SAMP	09/24/24 10:58	Alexander Gonatas	NA	25		09/24/24 10:58	8	96.0	09/24/24 12:58	25	Container F
L2453720-03 SAMP	09/24/24 10:58	Alexander Gonatas	NA	25		09/24/24 10:58	8	96.0	09/24/24 12:58	25	Container F
L2453720-04 SAMP	09/24/24 10:58	Alexander Gonatas	NA	25		09/24/24 10:58	8	96.0	09/24/24 12:58	25	Container F
L2453720-06 SAMP	09/24/24 10:58	Alexander Gonatas	NA	25		09/24/24 10:58	8	96.0	09/24/24 12:58	25	Container F
L2453720-07 SAMP	09/24/24 10:58	Alexander Gonatas	NA	25		09/24/24 10:58	8	96.0	09/24/24 12:58	25	Container F
L2453720-08 SAMP	09/24/24 10:58	Alexander Gonatas	NA	25		09/24/24 10:58	8	96.0	09/24/24 12:58	25	Container F
L2453720-09 SAMP	09/24/24 10:58	Alexander Gonatas	NA	25		09/24/24 10:58	8	96.0	09/24/24 12:58	25	Container F
WG1975488-1 BLANK	09/24/24 10:58	Alexander Gonatas	NA	25		09/24/24 10:58	8	96.0	09/24/24 12:58	25	
WG1975488-2 LCS	09/24/24 10:58	Alexander Gonatas	NA	25	0.25	09/24/24 10:58	8	96.0	09/24/24 12:58	25	ELN:efm
WG1975488-3 MS	09/24/24 10:58	Alexander Gonatas	NA	25	1.25	09/24/24 10:58	8	96.0	09/24/24 12:58	25	

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METALS ELN REPORT

Workgroup: WG1975488

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1975488-4 MSD	09/24/24 10:58	Alexander Gonatas	NA	25	1.25	09/24/24 10:58	8	96.0	09/24/24 12:58	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 25-SEP-24 03:49 PM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-01	**Date Collected**	:	09/18/24 09:10
Client ID	:	MW-8S	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/25/24 10:45
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	107,-	**Analyst**	:	MRM
Lab File ID	:	WG1976111.csv	**Instrument ID**	:	
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.2	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 10:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1976111.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	3.8	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 10:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1976111.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.2	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 10:45
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1976111.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 10:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1976111.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	6.6	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 10:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1976111.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.4	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 10:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1976111.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.1	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/25/24 10:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1976111.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	5.0	0.30	0.30	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: Total Nitrogen

Method: *Calculation from TKN & NO3/NO2*

Product: TNITROGEN
Analyte: Total Nitrogen,
Analysis Date: 9/25/2024 10:45
Technician: MRM
Work group: WG1976111
RL: 0.3 mg/L

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2453274-01	0.388	0.91	1.0	1.298
SAMP	L2453274-02	0.36	0.96	1.0	1.32
SAMP	L2453274-03	0.359	2.1	1.0	2.459
SAMP	L2453274-04	0.302	1.9	1.0	2.202
SAMP	L2453274-05	0.585	0.99	1.0	1.575
SAMP	L2453274-06	0.246	2.4	1.0	2.4
SAMP	L2453274-07	0.194	1.1	1.0	1.1
SAMP	L2453274-08	0.136	1.9	1.0	1.9
SAMP	L2453720-01	0	1.2	1.0	1.2
SAMP	L2453720-02	0	3.8	1.0	3.8
SAMP	L2453720-03	0.248	1.2	1.0	1.2
SAMP	L2453720-04	0	0	1.0	0
SAMP	L2453720-06	0	6.6	1.0	6.6
SAMP	L2453720-07	0.513	0.88	1.0	1.393
SAMP	L2453720-08	0.0754	2.1	1.0	2.1
SAMP	L2453720-09	0	5	1.0	5

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 16:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975410-3	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8DDUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 16:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.243	0.300	0.066	J

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-04	**Date Collected**	:	09/18/24 14:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/23/24 16:24
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	4,351.1	**Analyst**	:	JRO
Lab File ID	:	NH320240923-C1	**Instrument ID**	:	LACHAT
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/20/24

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 16:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 16:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.513	0.300	0.066	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 16:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.075	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 16:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974257-1	**Date Collected**	: NA
Client ID	: WG1974257-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 15:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.022	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974257-3	**Date Collected**	: 09/17/24 09:21
Client ID	: WG1974257-3 DUP	**Date Received**	: 09/17/24
Sample Location	:	**Date Analyzed**	: 09/23/24 16:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: JRO
Lab File ID	: NH320240923-C1	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/20/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.356	0.300	0.066	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975410-1	**Date Collected**	: NA
Client ID	: WG1975410-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 16:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.109	0.300	0.022	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975410-3	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8DDUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 16:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 4,351.1	**Analyst**	: AT
Lab File ID	: NH320240924-C	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.243	0.300	0.066	J

Sample Raw Data

Original Run Filename: OM_9-23-2024_11-59-17AM.OMN Created: 9/23/2024 11:59:17 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-23-2024_11-59-17AM.OMN Last Modified: 9/23/2024 12:38:47 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
STD 1	1	S1	10.00000			
STD 2	1	S2	8.00000			
STD 3	1	S3	4.00000			
STD 4	1	S4	2.00000			
STD 5	1	S5	1.00000			
STD 6	1	S6	0.40000			
STD 7	1	S7	0.20000			
STD 8	1	S8	0.10000			
STD 9	1	S9	0.05000			
STD 10	1	S10	0.00000			
CCV 0.4000	1	S6	0.36685			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.01300			
	Known Conc:		100.00000			
CCB	1	S10	0.02654			
	Known Conc:		100.00000			
HI ICV 8.0	1	1	8.14072			
LO ICV 1.0	1	2	1.04171			
ICB	1	3	0.00975			
WG1974167-1 T	1	4	0.01138		1.00	
WG1974167-2 T	1	5	37.34071		15.00	
LCS LO	1	6	4.15372		3.00	
L2452663-01 T	1	7	1016.10706		30.00	
L2452665-01 T	1	8	47.71375		6.00	
L2452665-02 T	1	9	1.24331		3.00	
L2452666-01 T	1	10	15.26053		3.00	
CCV 0.4000	1	S6	0.58433			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.09477			
	Known Conc:		100.00000			
CCB	1	S10	0.05274			
	Known Conc:		100.00000			
L2452666-02 T	1	11	9.30784		3.00	
L2452734-01 T	1	12	1.06834		3.00	
L2452743-01 T	1	13	0.40023		3.00	
L2452743-02 T	1	14	0.62088		3.00	
L2452743-03 T	1	15	0.41046		3.00	
L2452743-04 T	1	16	0.35988		3.00	
L2452829-01 T	1	17	692.58820		30.00	

CCV failed

Cal only

Author: A1WETCHEMINSTRUMENT

Date : 9/23/2024

Channel 2 (Ammonia High) - Current View

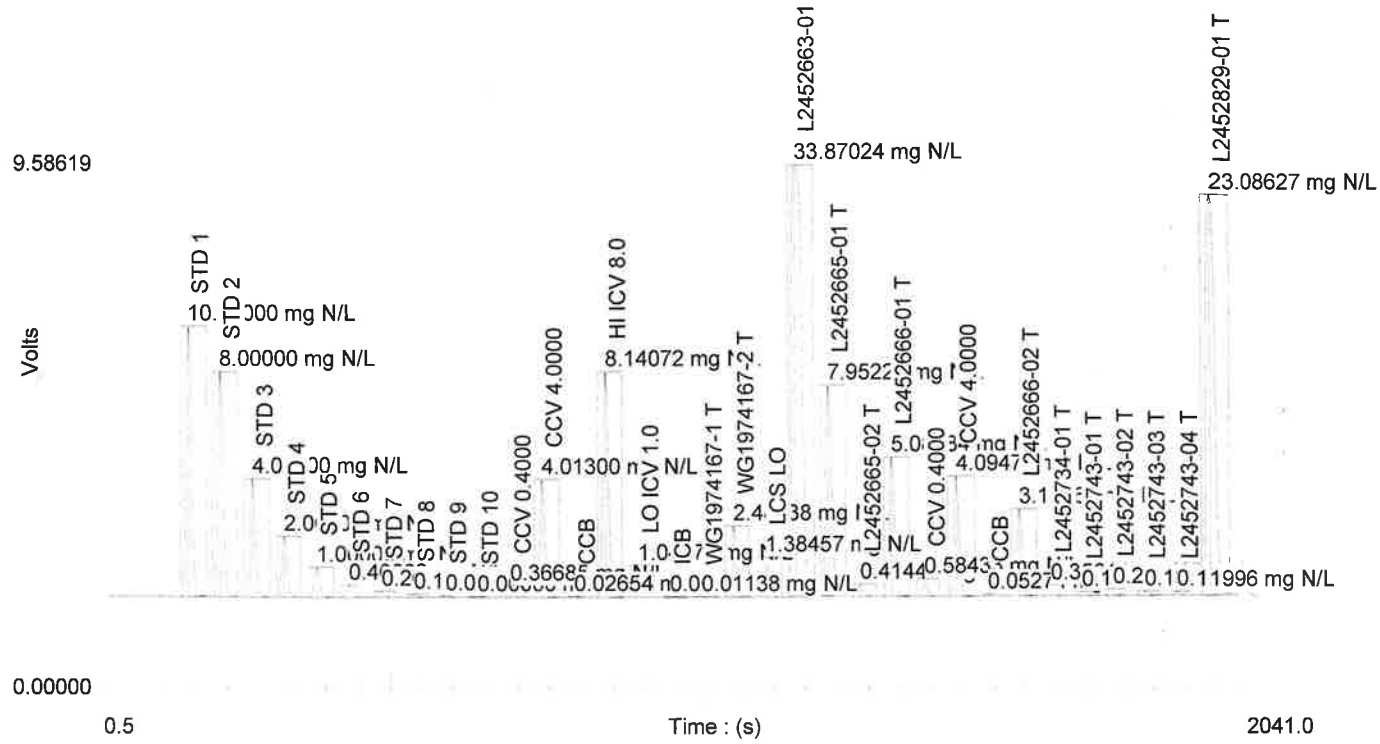
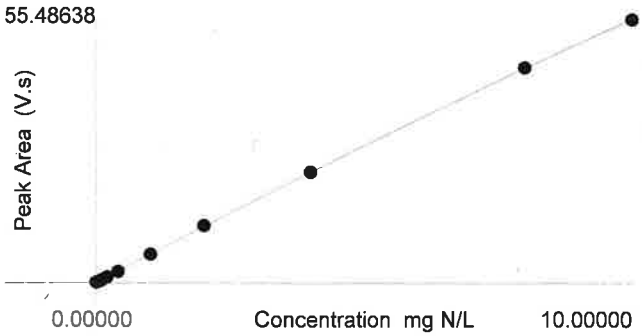


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	55.48638	4.95716	0.0	0.2	9.97356	9/23/2024	12:06:21 PM
2	8.00000	1	45.34433	4.12524	0.0	-0.2	8.02625	9/23/2024	12:07:17 PM
3	4.00000	1	23.41388	2.17482	0.0	0.0	4.00282	9/23/2024	12:08:15 PM
4	2.00000	1	12.02972	1.12353	0.0	-0.9	2.01523	9/23/2024	12:09:12 PM
5	1.00000	1	6.07621	0.55684	0.0	-0.6	1.00327	9/23/2024	12:10:09 PM
6	0.40000	1	2.40168	0.22414	0.0	2.6	0.38811	9/23/2024	12:11:07 PM
7	0.20000	1	1.25398	0.11345	0.0	1.0	0.19745	9/23/2024	12:12:05 PM
8	0.10000	1	0.64619	0.05772	0.0	2.9	0.09676	9/23/2024	12:13:03 PM
9	0.05000	1	0.31533	0.02776	0.0	13.4	0.04203	9/23/2024	12:14:01 PM
10	0.00000	1	0.12817	0.00893			0.01110	9/23/2024	12:14:57 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/23/2024

Original Run Filename: OM_9-23-2024_12-45-09PM.OMN Created: 9/23/2024 12:45:09 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-23-2024_12-45-09PM.OMN Last Modified: 9/23/2024 1:22:11 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38058			93%
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01619			100%
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			✓
CCB	1	S10	0.03360			
	Known Conc:		100.00000			
HI ICV 8.0	1	1	8.04196			101%
LO ICV 1.0	1	2	1.03379			103%
ICB	1	3	0.01642			
WG1974167-1 T	1	4	0.01597		1.00	
WG1974167-2 T	1	5	36.75468		15.00	92%
LCS LO	1	6	4.11734		3.00	103%
L2452663-01 T; 20X	1	7	3475.26196		600.00	
L2452665-01 T	1	8	42.60271		6.00	
L2452666-01 T	1	9	15.49785		3.00	
L2452665-02 T	1	10	0.72484		3.00	
CCV 0.4000	1	S6	0.40337			101%
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.03605			101%
	Known Conc:		100.00000			
CCB	1	S10	0.03552			✓
	Known Conc:		100.00000			
L2452666-02 T	1	11	9.16154		3.00	
L2452734-01 T	1	12	1.02576		3.00	
L2452743-01 T	1	13	0.37604		3.00	
L2452743-02 T	1	14	0.60869		3.00	
L2452743-03 T	1	15	0.38819		3.00	
L2452743-04 T	1	16	0.35290		3.00	
L2452829-01 T; 20X	1	17	925.65399		600.00	
L2452961-01 T	1	18	1.94394		3.00	
L2452962-01 T	1	19	1.50293		3.00	
L2453063-01 T	1	20	0.08629		3.00	
CCV 0.4000	1	S6	0.38328			95%
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.10197			103%
	Known Conc:		100.00000			
CCB	1	S10	0.03177			✓
	Known Conc:		100.00000			
WG1974167-4 T	1	21	8.41055		3.00	
WG1974167-3 T	1	22	0.39069		3.00	
L2453250-01 T	1	23	12.54752		3.00	
CCV 0.4000	1	S6	0.39923			100%
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.08749			102%
	Known Conc:		100.00000			
CCB	1	S10	0.03694			✓
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/23/2024

Channel 2 (Ammonia High) - Current View

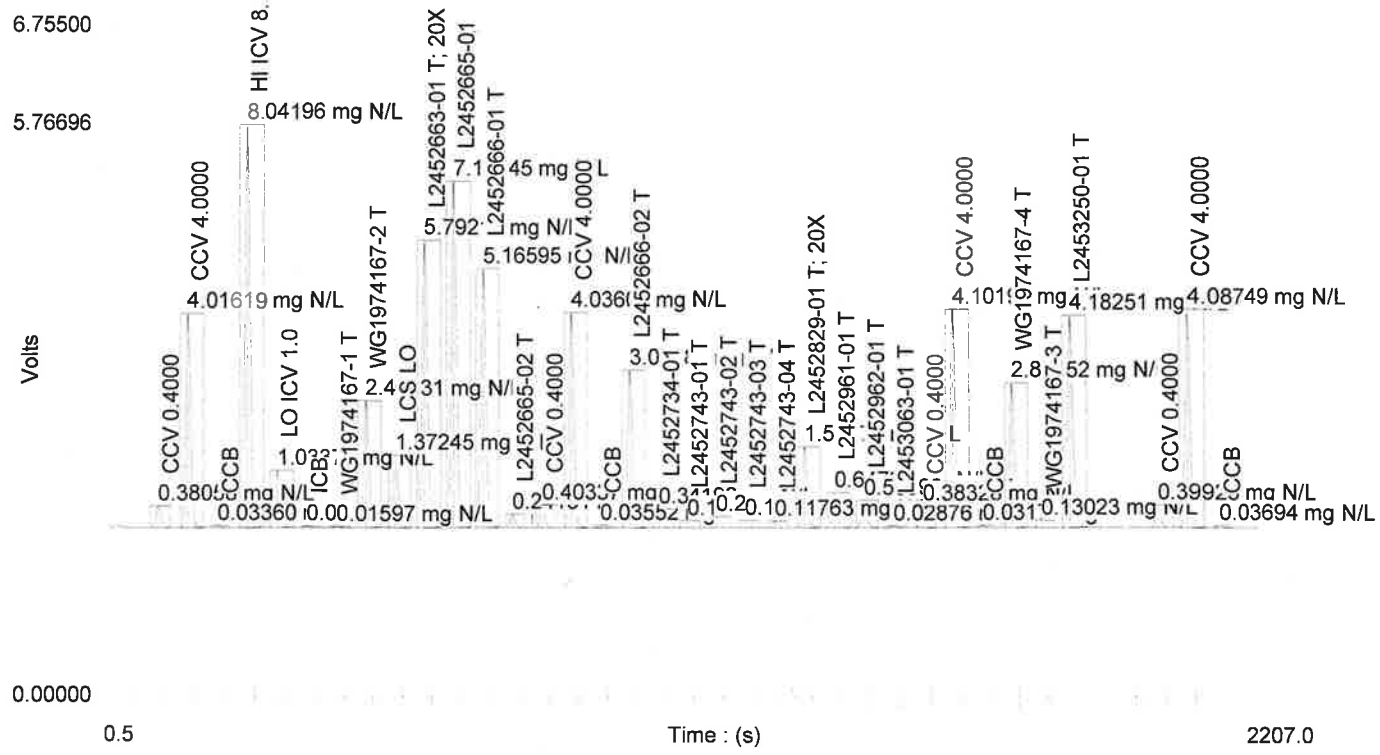
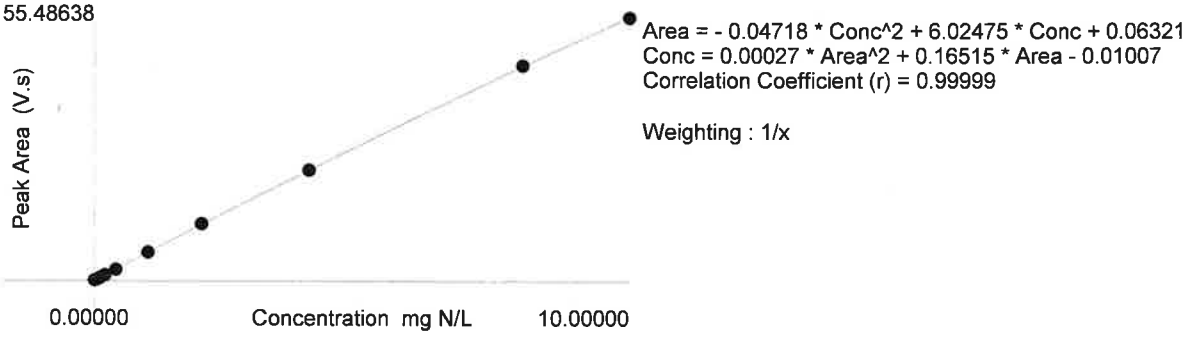


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	55.48638	4.95716	0.0	0.2	9.97356	9/23/2024	12:06:21 PM
2	8.00000	1	45.34433	4.12524	0.0	-0.2	8.02625	9/23/2024	12:07:17 PM
3	4.00000	1	23.41388	2.17482	0.0	0.0	4.00282	9/23/2024	12:08:15 PM
4	2.00000	1	12.02972	1.12353	0.0	-0.9	2.01523	9/23/2024	12:09:12 PM
5	1.00000	1	6.07621	0.55684	0.0	-0.6	1.00327	9/23/2024	12:10:09 PM
6	0.40000	1	2.40168	0.22414	0.0	2.6	0.38811	9/23/2024	12:11:07 PM
7	0.20000	1	1.25398	0.11345	0.0	1.0	0.19745	9/23/2024	12:12:05 PM
8	0.10000	1	0.64619	0.05772	0.0	2.9	0.09676	9/23/2024	12:13:03 PM
9	0.05000	1	0.31533	0.02776	0.0	13.4	0.04203	9/23/2024	12:14:01 PM
10	0.00000	1	0.12817	0.00893			0.01110	9/23/2024	12:14:57 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/23/2024

Original Run Filename: OM_9-23-2024_03-22-25PM.OMN Created: 9/23/2024 3:22:25 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-23-2024_03-22-25PM.OMN Last Modified: 9/23/2024 3:40:06 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.36225			98 ✓
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.96084			99%
	Known Conc:		100.00000			✓
CCB	1	S10	0.02398			
	Known Conc:		100.00000			
WG1974257-1 T	1	1	0.01768		1.00	
WG1974257-2 T	1	2	38.25994		15.00	96%
LCS LO	1	3	3.89793		3.00	97%
L2451391-23 T	1	4	0.47628		3.00	
L2451391-24 T	1	5	1.04170		3.00	
L2451391-25 T	1	6	0.22284		3.00	
L2451391-26 T	1	7	0.69141		6.00	
L2453342-01 T	1	8	0.02830		3.00	
L2453342-02 T	1	9	0.12773		3.00	
L2453342-03 T	1	10	0.02139		3.00	
CCV 0.4000	1	S6	0.37698			94%
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.03071			101%
	Known Conc:		100.00000			
CCB	1	S10	0.03500			✓
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View

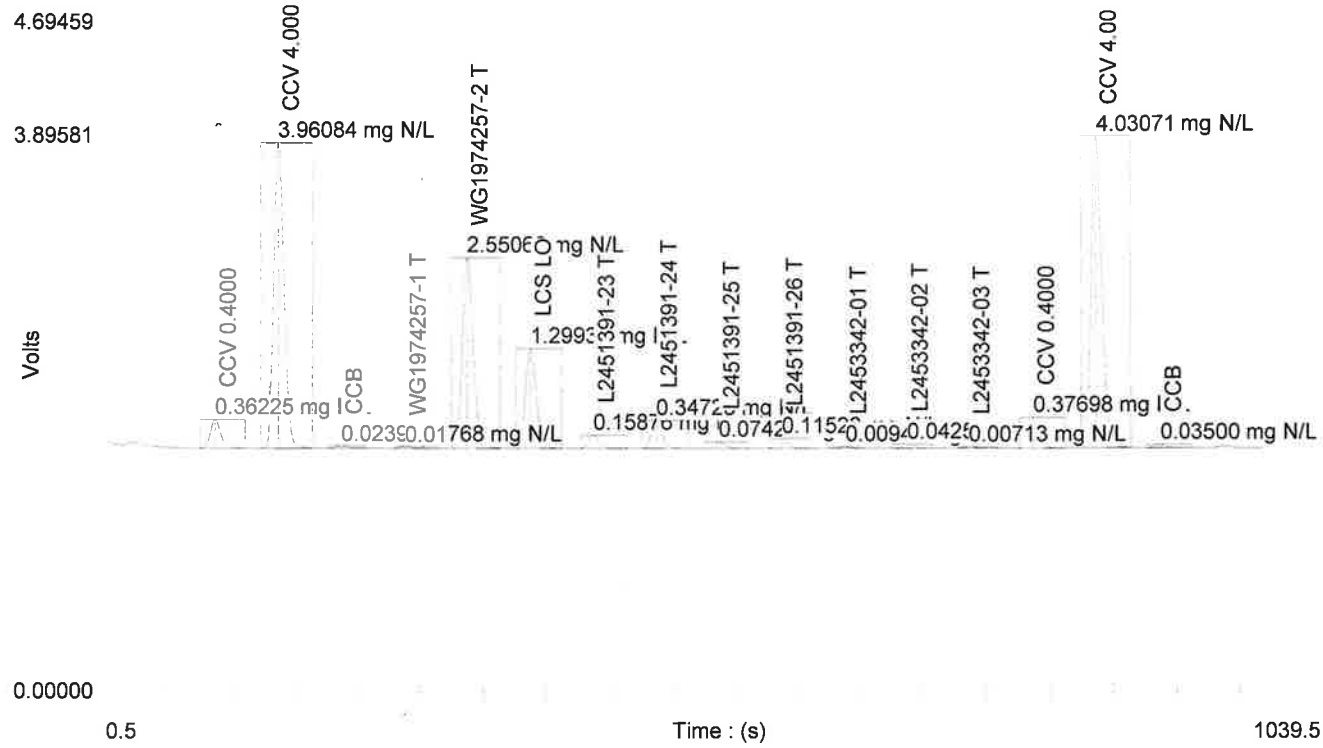
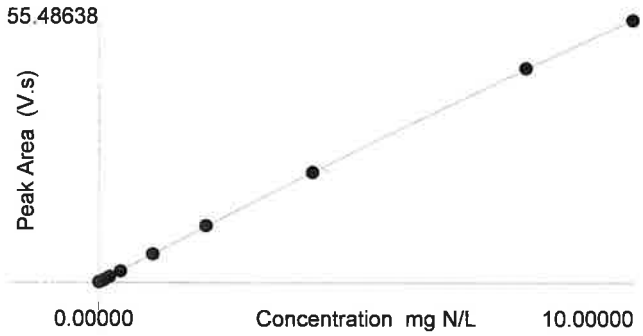


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	55.48638	4.95716	0.0	0.2	9.97356	9/23/2024	12:06:21 PM
2	8.00000	1	45.34433	4.12524	0.0	-0.2	8.02625	9/23/2024	12:07:17 PM
3	4.00000	1	23.41388	2.17482	0.0	0.0	4.00282	9/23/2024	12:08:15 PM
4	2.00000	1	12.02972	1.12353	0.0	-0.9	2.01523	9/23/2024	12:09:12 PM
5	1.00000	1	6.07621	0.55684	0.0	-0.6	1.00327	9/23/2024	12:10:09 PM
6	0.40000	1	2.40168	0.22414	0.0	2.6	0.38811	9/23/2024	12:11:07 PM
7	0.20000	1	1.25398	0.11345	0.0	1.0	0.19745	9/23/2024	12:12:05 PM
8	0.10000	1	0.64619	0.05772	0.0	2.9	0.09676	9/23/2024	12:13:03 PM
9	0.05000	1	0.31533	0.02776	0.0	13.4	0.04203	9/23/2024	12:14:01 PM
10	0.00000	1	0.12817	0.00893			0.01110	9/23/2024	12:14:57 PM

Figure : 1 (Ammonia)



Area = - 0.04718 * Conc^2 + 6.02475 * Conc + 0.06321
Conc = 0.00027 * Area^2 + 0.16515 * Area - 0.01007
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 9/23/2024

Original Run Filename: OM_9-23-2024_04-06-54PM.OMN Created: 9/23/2024 4:06:54 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-23-2024_04-06-54PM.OMN Last Modified: 9/23/2024 4:34:25 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.36769			92 L
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.02642			101 L
	Known Conc:		100.00000			
CCB	1	S10	0.03227			/
	Known Conc:		100.00000			
2-04 T	1	11	0.04527		3.00	
L2453342-05 T	1	12	0.09195		3.00	
L2453342-06 T	1	13	0.03189		3.00	
WG1974257-4 T	1	14	8.76686		3.00	
WG1974257-3 T	1	15	0.35591		3.00	
L2453342-07 T	1	16	0.08676		3.00	
L2453342-08 T	1	17	0.10211		3.00	
L2453342-10 T	1	18	1.01653		3.00	
L2453720-01 T	1	19	0.02227		3.00	
L2453720-03 T	1	20	0.24809		3.00	
CCV 0.4000	1	S6	0.38176			95 L
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02536			101 L
	Known Conc:		100.00000			
CCB	1	S10	0.03697			/
	Known Conc:		100.00000			
L2453720-04 T	1	21	0.05529		3.00	
L2453720-06 T	1	22	0.03087		3.00	
L2453720-07 T	1	23	0.51279		3.00	
L2453720-08 T	1	24	0.07543		3.00	
L2453720-09 T	1	25	0.01224		3.00	
CCV 0.4000	1	S6	0.37256			97 L
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01584			100 L
	Known Conc:		100.00000			
CCB	1	S10	0.02456			/
	Known Conc:		100.00000			

L2453342-04

Author: A1WETCHEMINSTRUMENT

Date : 9/23/2024

Channel 2 (Ammonia High) - Current View

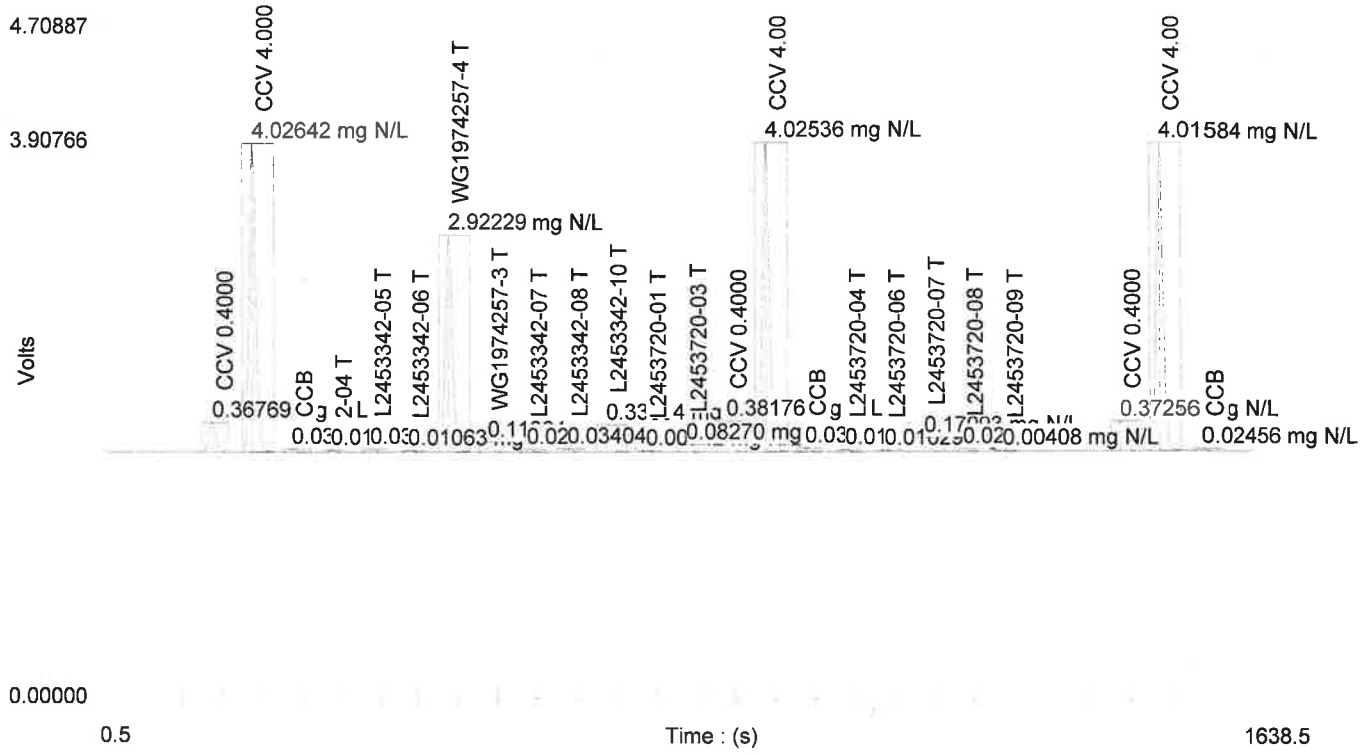
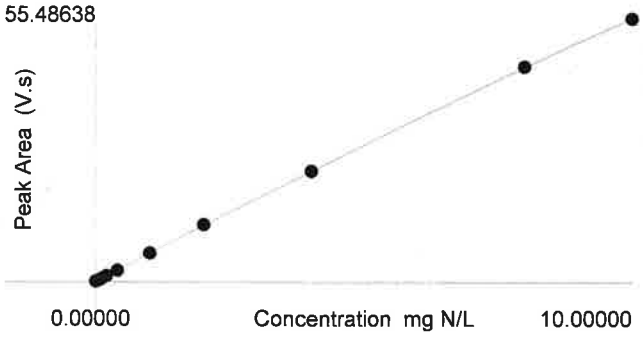


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	55.48638	4.95716	0.0	0.2	9.97356	9/23/2024	12:06:21 PM
2	8.00000	1	45.34433	4.12524	0.0	-0.2	8.02625	9/23/2024	12:07:17 PM
3	4.00000	1	23.41388	2.17482	0.0	0.0	4.00282	9/23/2024	12:08:15 PM
4	2.00000	1	12.02972	1.12353	0.0	-0.9	2.01523	9/23/2024	12:09:12 PM
5	1.00000	1	6.07621	0.55684	0.0	-0.6	1.00327	9/23/2024	12:10:09 PM
6	0.40000	1	2.40168	0.22414	0.0	2.6	0.38811	9/23/2024	12:11:07 PM
7	0.20000	1	1.25398	0.11345	0.0	1.0	0.19745	9/23/2024	12:12:05 PM
8	0.10000	1	0.64619	0.05772	0.0	2.9	0.09676	9/23/2024	12:13:03 PM
9	0.05000	1	0.31533	0.02776	0.0	13.4	0.04203	9/23/2024	12:14:01 PM
10	0.00000	1	0.12817	0.00893			0.01110	9/23/2024	12:14:57 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Original Run Filename: OM_9-24-2024_02-09-37PM.OMN Created: 9/24/2024 2:09:37 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_02-09-37PM.OMN Last Modified: 9/24/2024 3:06:28 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
STD 1	1	S1	10.00000			
STD 2	1	S2	8.00000			
STD 3	1	S3	4.00000			
STD 4	1	S4	2.00000			
STD 5	1	S5	1.00000			
STD 6	1	S6	0.40000			
STD 7	1	S7	0.20000			
STD 8	1	S8	0.10000			
STD 9	1	S9	0.05000			
STD 10	1	S10	0.00000			
CCV 0.4000	1	S6	0.38400	96%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.06105	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02617			
	Known Conc:		100.00000			97%
HI ICV 8.0	1	1	7.90381			
LO ICV 1.0	1	2	1.02970			103%
ICB	1	3	0.00359			
WG1974611-1	1	4	-0.00728		1.50	91%
WG1974611-2	1	5	18.17242		7.50	
LCS LO	1	6	1.87629		1.50	94%
L2453309-02	1	7	16.68735		3.00	
L2453404-02	1	8	0.24426		1.50	
L2453404-05	1	9	0.32843		3.00	
L2453404-08	1	10	-0.00377		1.50	97%
CCV 0.4000	1	S6	0.38707			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11676			83%
	Known Conc:		100.00000			
CCB	1	S10	0.03157			
	Known Conc:		100.00000			
L2453404-11	1	11	0.50303		3.00	
L2453404-14	1	12	0.30369		3.00	
L2453404-17	1	13	0.37756		1.50	
L2453404-20	1	14	0.19113		1.50	
L2453404-23	1	15	0.07368		1.50	
L2453404-26	1	16	0.105 ~~0.06432~~		~~1.50~~	3.0
L2453422-02	1	17	0.02399		3.00	
L2453422-04	1	18	0.00412		1.50	
L2453422-06	1	19	-0.01161		1.50	
L2453422-08	1	20	0.00595		1.50	
CCV 0.4000	1	S6	0.37872	95%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11441	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02524			
	Known Conc:		100.00000			
L2453422-10	1	21	0.00176		1.50	
L2453422-12	1	22	-0.00738		1.50	
L2453422-14	1	23	-0.00325		1.50	
L2453422-16	1	24	0.00977		1.50	
L2453422-18	1	25	0.33543		1.50	
L2453422-20	1	26	0.15775		1.50	105%
WG1974611-4	1	27	4.36508		1.50	
WG1974611-3	1	28	0.30755		1.50	64% (LC+RC)
CCV 0.4000	1	S6	0.38747	97%		
	Known Conc:		100.00000			

CCV 4.0000	1	S3	4.12521
	Known Conc:		100.00000
CCB	1	S10	0.02592
	Known Conc:		100.00000

Channel 2 (Ammonia High) - Current View

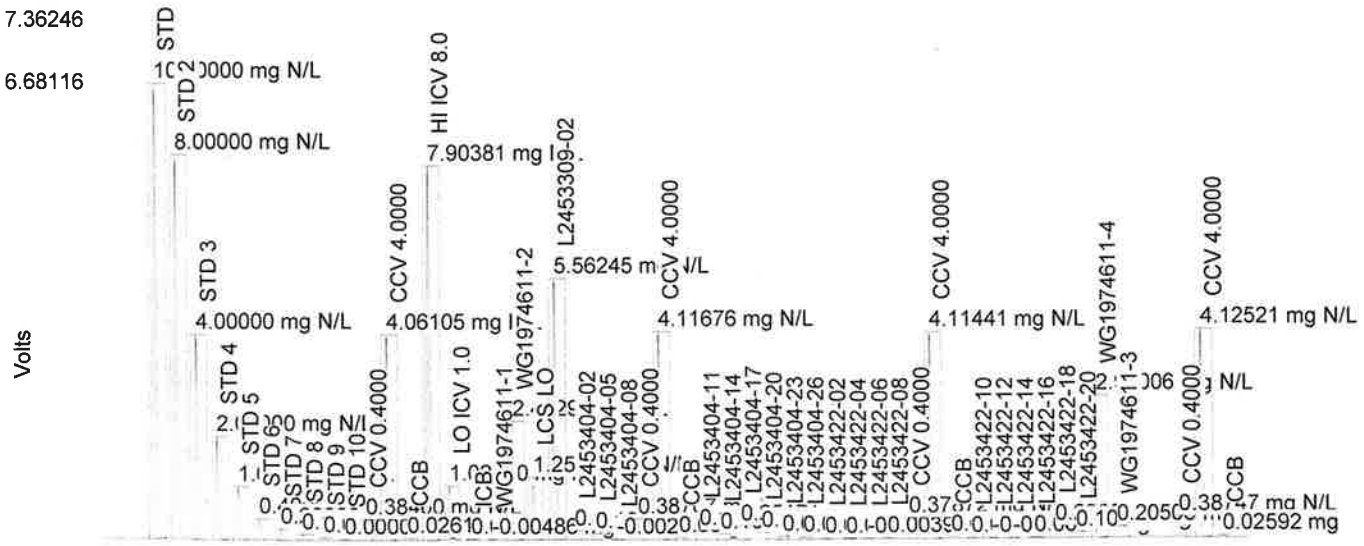


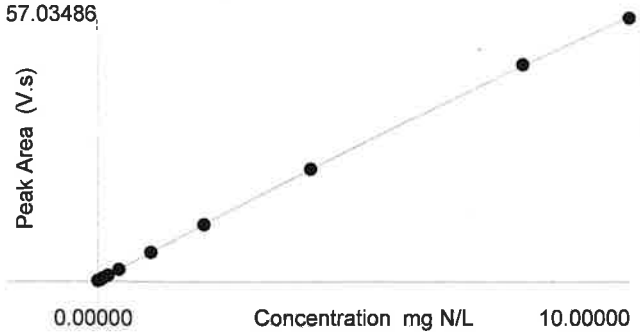
Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Original Run Filename: OM_9-24-2024_03-11-50PM.OMN Created: 9/24/2024 3:11:50 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_03-11-50PM.OMN Last Modified: 9/24/2024 3:40:38 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

B

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.38663	97%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.12086	103%			
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.03216				
	Known Conc:		100.00000				
WG1974987-1 T	1	1	0.01657				
WG1974987-2 T	1	2	37.13968		15.00	93%	
LCS LO	1	3	4.22557		3.00	106%	
L2452439-01 T	1	4	11.97604		3.00		
L2452439-03 T	1	5	2.23687		3.00		
~~L2452659-01 T~~	1	~~6~~	~~36.69828~~		3.00		w/dilution.
~~L2452659-02 T~~	1	~~7~~	~~2.34757~~		3.00		
~~L2452661-01 T~~	1	~~8~~	~~38.40069~~		3.00		
~~L2452661-02 T~~	1	~~9~~	~~6.77500~~		3.00		
L2452954-02 T	1	10	1.88810		3.00		
CCV 0.4000	1	S6	0.42722	107%			
	Known Conc:		100.00000				
CCV 4.0000	1	S3	4.13375	103%			
	Known Conc:		100.00000				
CCB	1	S10	0.04255				
	Known Conc:		100.00000				
L2453069-01 T	1	11	0.40548		3.00		
L2453069-02 T	1	12	0.52610		3.00		
L2453069-03 T	1	13	0.40668		3.00		
L2453116-01 T	1	14	0.81322		3.00		
L2453562-01 T	1	15	1.23704		3.00		
L2453588-01 T	1	16	0.60520		3.00		
~~L2453851-01 T~~	1	~~17~~	~~41.57821~~		3.00		
~~L2453851-02 T~~	1	~~18~~	~~25.54790~~		3.00		
WG1974987-4 T	1	19	15.15484		3.00	112%	
WG1974987-3 T	1	20	~~6.94501~~		3.00	16%	
CCV 0.4000	1	S6	0.50051				
	Known Conc:		~~100.00000~~				

reinject - OK

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

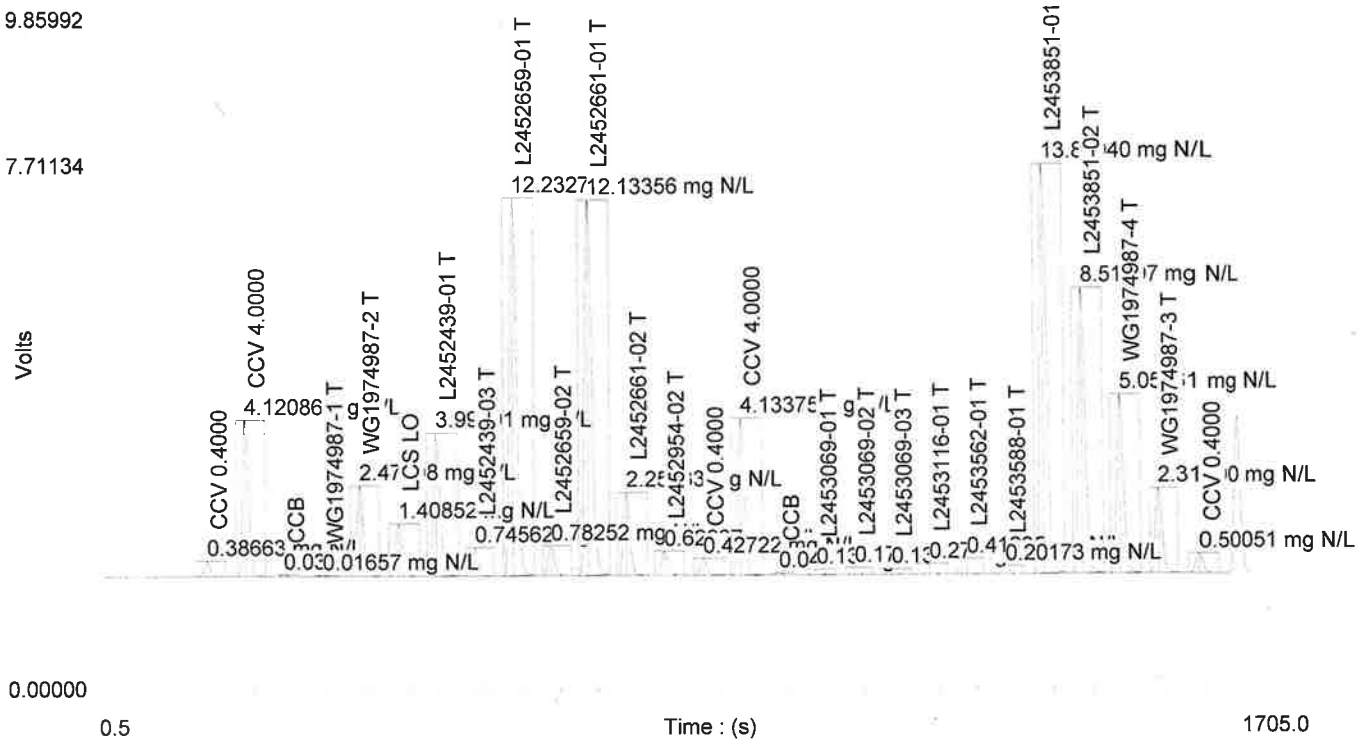
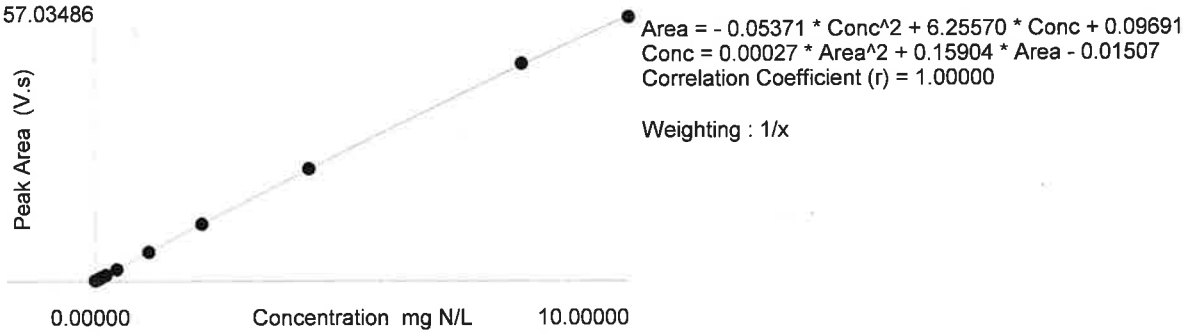


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

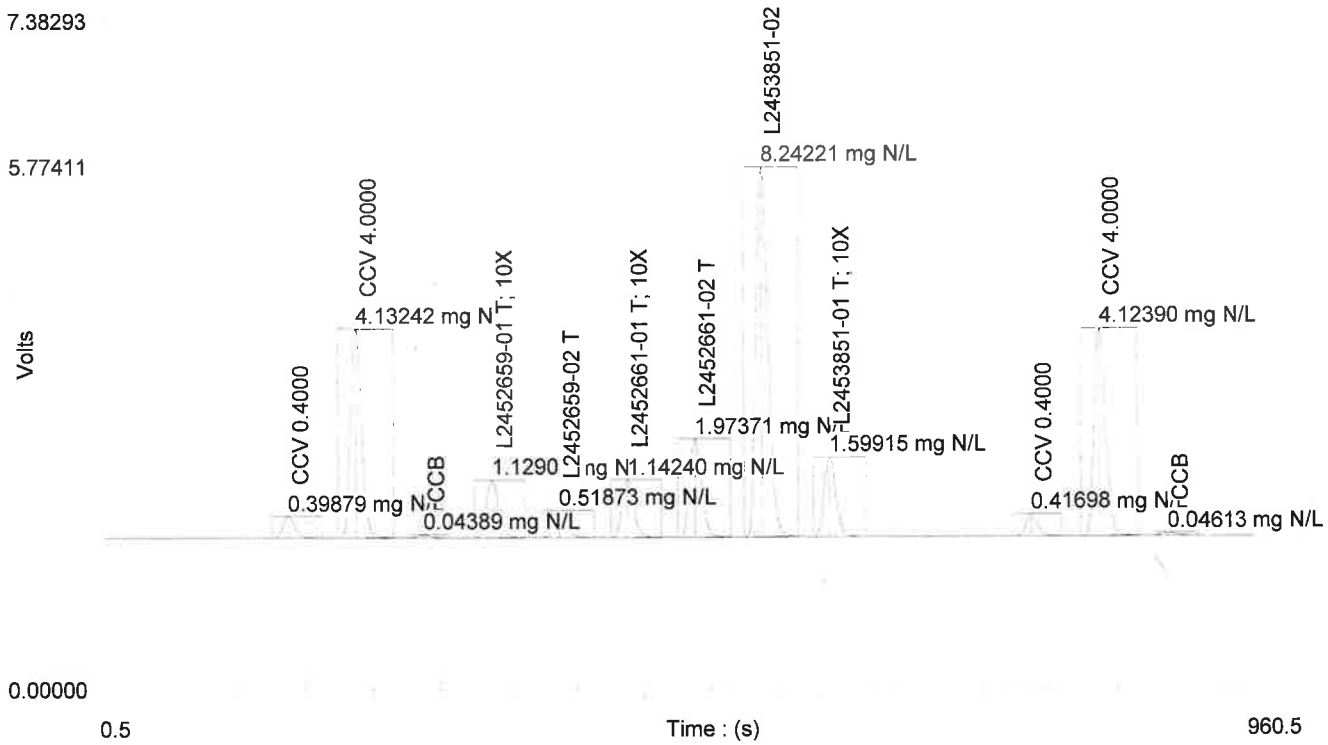
Date : 9/24/2024

Original Run Filename: OM_9-24-2024_03-42-30PM.OMN Created: 9/24/2024 3:42:30 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_03-42-30PM.OMN Last Modified: 9/24/2024 3:58:43 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39879	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13242	103%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.04389			
	Known Conc:		100.00000			
L2452659-01 T; 10X	1	21	33.87167		30.00	
L2452659-02 T	1	22	1.55619		3.00	
L2452661-01 T; 10X	1	23	34.27209		30.00	
L2452661-02 T	1	24	5.92113		3.00	
L2453851-02 T	1	25	24.72663		3.00	
L2453851-01 T; 10X	1	26	47.97457		30.00	
CCV 0.4000	1	S6	0.41698	104%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12390	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.04613			
	Known Conc:		100.00000			

B2

Channel 2 (Ammonia High) - Current View



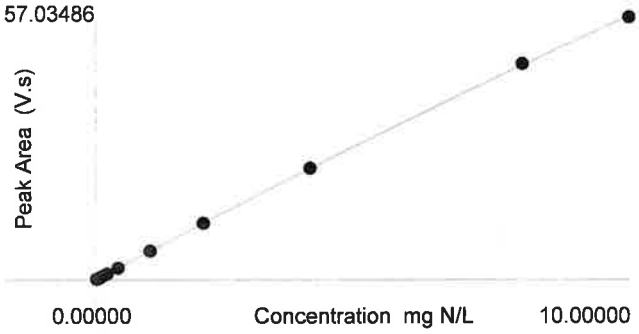
Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Original Run Filename: OM_9-24-2024_04-34-54PM.OMN Created: 9/24/2024 4:34:54 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_04-34-54PM.OMN Last Modified: 9/24/2024 5:02:27 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40347	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.14306	104%		
	Known Conc:		100.00000			
CCB	1	S10	0.01157	✓		
	Known Conc:		100.00000			
WG1975410-1 T; BLK 9/24	1	1	0.03622			95%
WG1975410-2 T; HI LCS; 5X	1	2	37.92855		15.00	
LO LCS T	1	3	3.85769		3.00	97%
L2453342-10 T	1	4	0.21887		3.00	
L2453400-01 T	1	5	0.13447		3.00	
L2453400-02 T	1	6	0.14047		3.00	
L2453720-02 T	1	7	0.03683	✓	3.00	83%
WG1975410-4 T; 53720.2 MS	1	8	6.66251		3.00	
WG1975410-3 T; 53720.2 DUP	1	9	0.24279	✓	3.00	NC
L2454050-01 T	1	10	0.04661		3.00	
CCV 0.4000	1	S6	0.40045	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12804	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01118	✓		
	Known Conc:		100.00000			
L2454050-02 T	1	11	0.18983		3.00	
L2454050-03 T	1	12	0.04514		3.00	
L2454050-04 T	1	13	0.19692		3.00	
L2454059-01 T	1	14	0.02664		3.00	
L2454059-02 T	1	15	0.08425		3.00	
CCV 0.4000	1	S6	0.39734	99%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11552	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01054	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

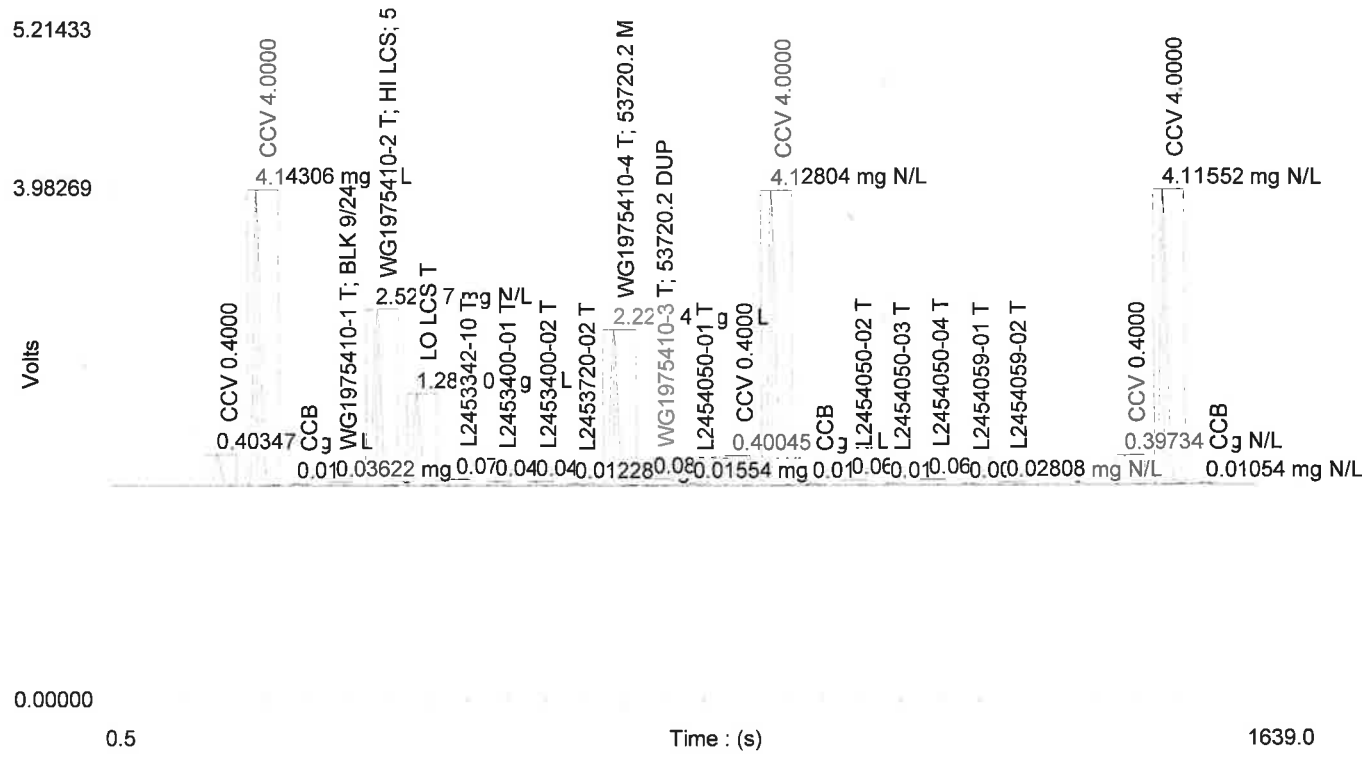
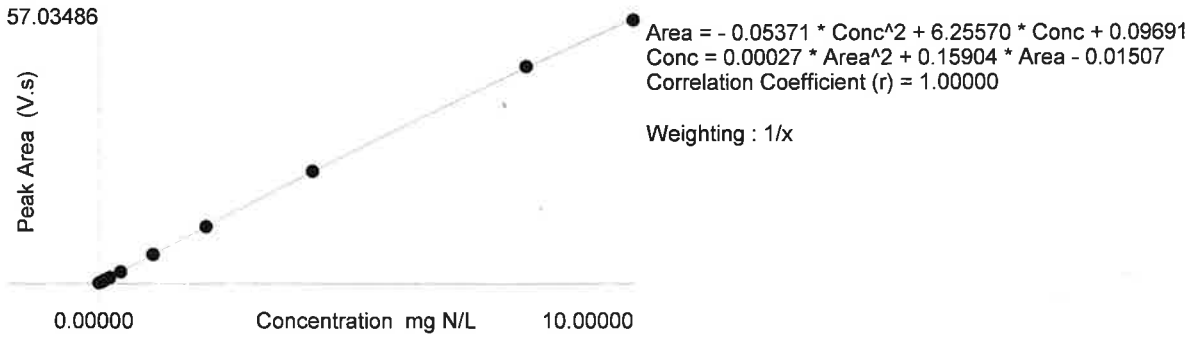


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_05-03-39PM.OMN Created: 9/24/2024 5:03:39 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_05-03-39PM.OMN Last Modified: 9/24/2024 5:44:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39694	99%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.10480	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01564	✓		
	Known Conc:		100.00000			
WG1974880-1; BLK 9/23	1	1	0.00101		1.50	95%
WG1974880-2; HI LCS; 5X	1	2	18.94386		7.50	95%
LO LCS	1	3	1.91604		1.50	
~~L2452663-01~~	~~1~~	~~4~~	~~899.24512~~		~~30.00~~	w/dilution
~~L2452825-01~~	~~1~~	~~5~~	~~19.70197~~		~~3.00~~	
L2452439-01	1	6	6.16501		3.00	
L2452439-03	1	7	0.41863		1.50	
L2452762-07	1	8	0.08491		1.50	
L2452762-10	1	9	0.05042		1.50	
L2452762-13	1	10	0.09997		1.50	
CCV 0.4000	1	S6	0.41315	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.13014	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02807	✓		
	Known Conc:		100.00000			
L2452762-16	1	11	0.02017		1.50	
L2452762-19	1	12	0.02341		1.50	
L2452762-22	1	13	0.01972		1.50	
L2452951-01	1	14	0.06498		1.50	
L2452951-02	1	15	0.02900		1.50	
L2452951-03	1	16	0.01543		1.50	
L2452951-04	1	17	0.05530		1.50	
L2452951-05	1	18	0.03787		1.50	
L2452951-07	1	19	0.02368		1.50	
L2452951-08	1	20	0.01178		1.50	
CCV 0.4000	1	S6	0.40168	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.10472	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02003	✓		
	Known Conc:		100.00000			
L2452951-09	1	21	0.02348	✓	1.50	107%
WG1974880-4; 52951.9 MS	1	22	4.28094		1.50	NC (see file)
WG1974880-3; 52951.9 DUP	1	23	0.16819	✓	1.50	
L2451318-01	1	24	0.02776		1.50	
L2451318-02	1	25	-0.00516		1.50	
L2452825-01	1	26	17.28792		3.00	
L2452663-01; 50X	1	27	2697.14331		1500.00	
CCV 0.4000	1	S6	0.41839	105%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12936	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02275	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

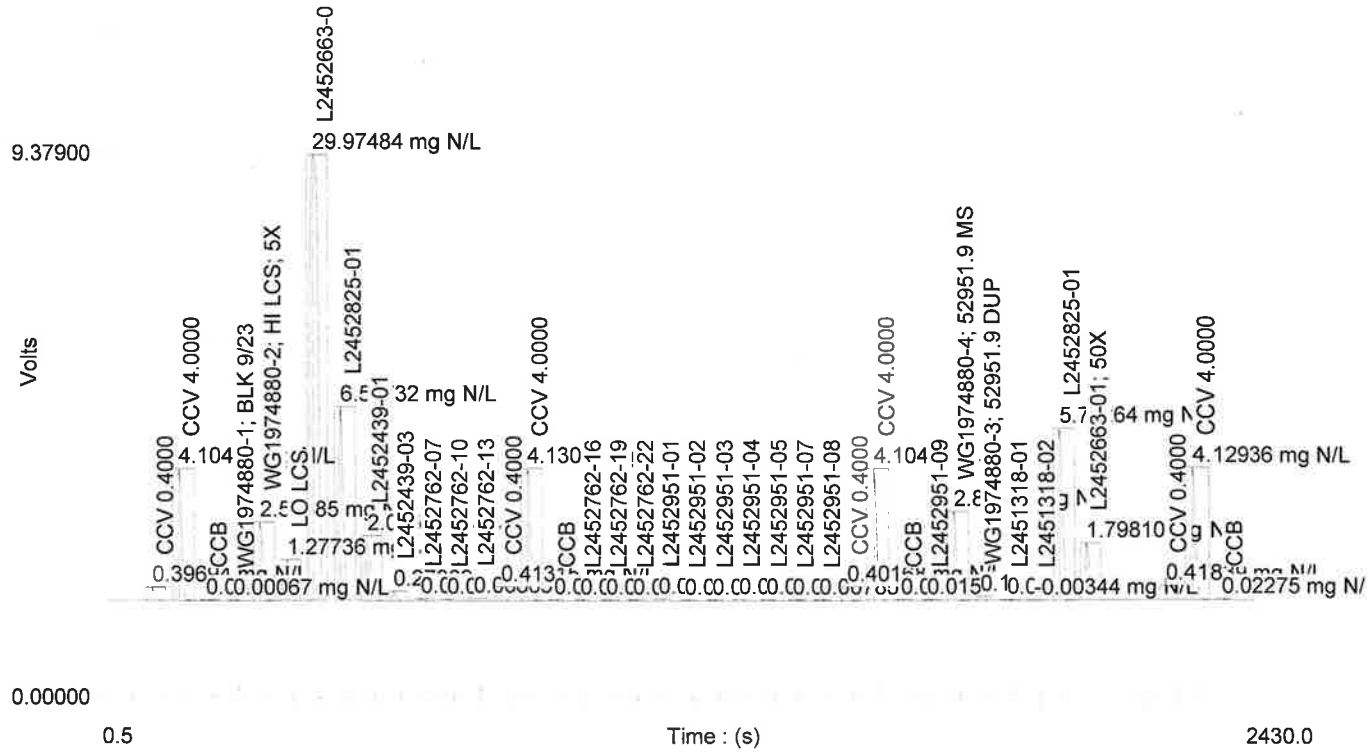
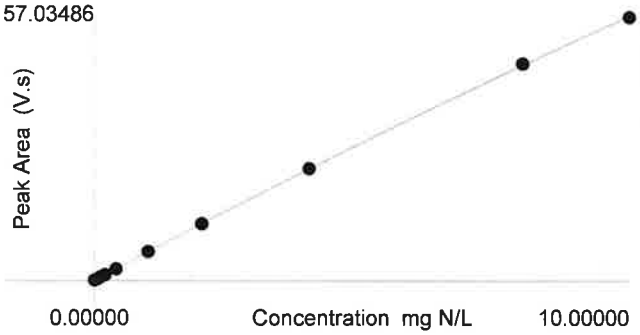


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_05-45-28PM.OMN Created: 9/24/2024 5:45:28 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_05-45-28PM.OMN Last Modified: 9/24/2024 6:23:24 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

E

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40296	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	4.09160	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02330			
	Known Conc:		100.00000			
WG1974931-1; BLK 9/23	1	1	0.00839		1.50	
WG1974931-2; HI LCS; 5X	1	2	20.41417		7.50	102%
LO LCS	1	3	2.02684		1.50	101%
L2453072-01	1	4	3.12408		7.50	
L2453072-02	1	5	1.54750		7.50	
L2453072-03	1	6	0.93141		7.50	
L2453702-04 53072.4	1	7	6.38925		7.50	
L2453118-01	1	8	0.47920		1.50	
L2453285-01	1	9	0.03705		1.50	
L2453285-02	1	10	0.01939		1.50	
CCV 0.4000	1	S6	0.39762	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.12069	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01922			
	Known Conc:		100.00000			
L2453285-03	1	11	0.18870		1.50	
L2453285-04	1	12	0.18328		1.50	
L2453198-02	1	13	19.26028		7.50	
L2453198-03	1	14	7.45834		1.50	
L2453123-02	1	15	0.25753		1.50	
L2452994-01	1	16	0.27551		1.50	
L2452994-02	1	17	0.76078		1.50	
L2452967-01	1	18	0.04190		1.50	111%
WG1974931-4; 52967.1 MS	1	19	4.44293		1.50	NCL (+RL)
WG1974931-3; 52967.1 DUP	1	20	0.13240		1.50	
CCV 0.4000	1	S6	0.41075	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.10704	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.02107			
	Known Conc:		100.00000			
L2452967-02	1	21	4.71979		1.50	
L2452967-03	1	22	5.86877		1.50	
L2452967-05	1	23	2.46901		1.50	
L2452967-06	1	24	1.87792		1.50	
CCV 0.4000	1	S6	0.41341	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.11104	103%		
	Known Conc:		100.00000			
CCB	1	S10	0.01431			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

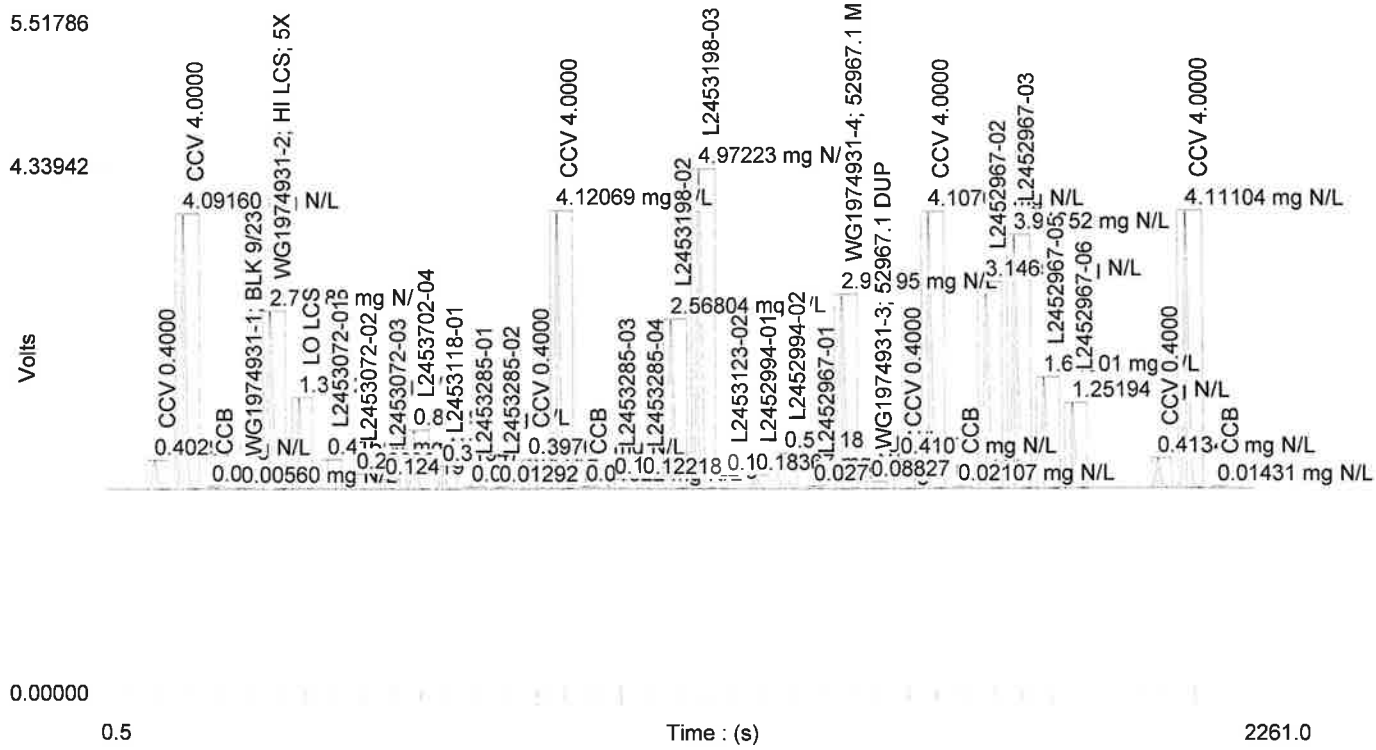
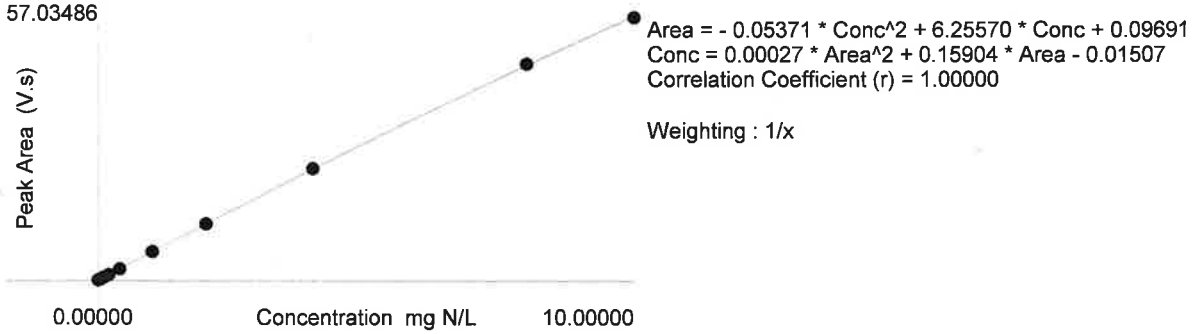


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

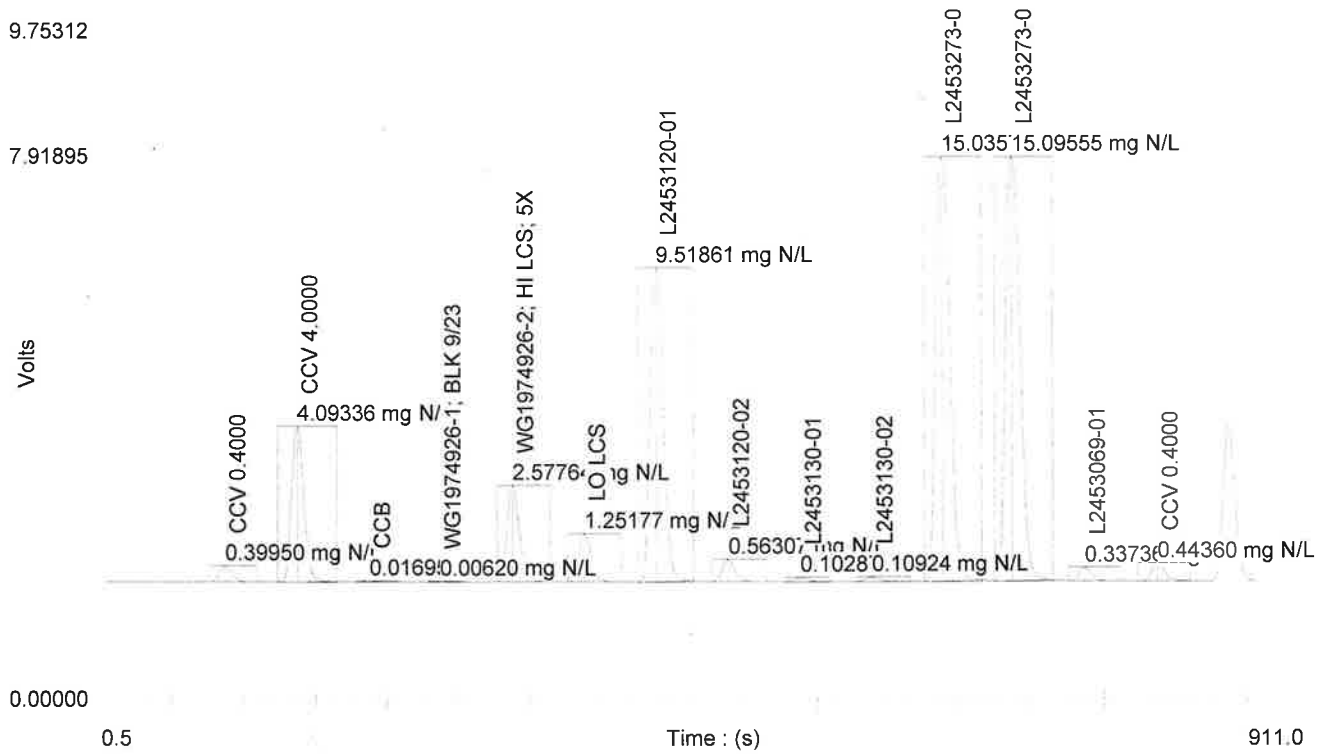
Original Run Filename: OM_9-24-2024_06-24-02PM.OMN Created: 9/24/2024 6:24:02 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_06-24-02PM.OMN Last Modified: 9/24/2024 6:39:35 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

F

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39950			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.09336			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01695			
	Known Conc:		100.00000			
WG1974926-1; BLK 9/23	1	1	0.00930		1.50	
WG1974926-2; HI LCS; 5X	1	2	19.33228		7.50	
LO LCS	1	3	1.87766		1.50	
L2453120-01	1	4	71.38956		7.50	
L2453120-02	1	5	0.84460		1.50	
L2453130-01	1	6	0.15430		1.50	
L2453130-02	1	7	0.16386		1.50	
L2453273-01	1	8	22.55355		1.50	
L2453273-02	1	9	22.64332		1.50	
L2453069-01	1	10	0.50604		1.50	
CCV 0.4000	1	S6	0.44360			
	Known Conc:		100.00000			

reinject - OK

Channel 2 (Ammonia High) - Current View



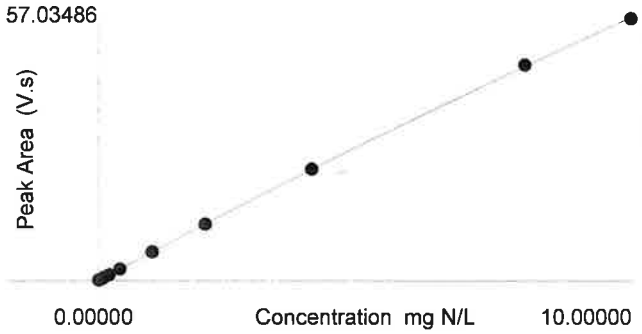
Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_06-41-33PM.OMN Created: 9/24/2024 6:41:33 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_06-41-33PM.OMN Last Modified: 9/24/2024 7:11:54 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40825	102%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.08416	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.02265	✓		
	Known Conc:		100.00000			
L2453069-02	1	11	0.03058		1.50	
L2453069-03	1	12	0.01625		1.50	
L2452951-10	1	13	0.04882	✓	1.50	
	Calibration:		Table/Fig. : 1			
WG1974926-4; 52951.10 MS	1	14	4.25540		1.50	107%
WG1974926-3; 52951.10 DUP	1	15	0.16758	✓	1.50	NC (<5 RPD)
L2452951-11	1	16	0.05612		1.50	
L2452951-12	1	17	0.05529		1.50	
L2452951-13	1	18	0.04072		1.50	
L2452951-14	1	19	0.04665		1.50	
L2452951-15	1	20	0.06207		1.50	
CCV 0.4000	1	S6	0.40544	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.07187	102%		
	Known Conc:		100.00000			
CCB	1	S10	0.01885	✓		
	Known Conc:		100.00000			
L2452951-16	1	21	0.02111		1.50	
L2452951-18	1	22	0.02894		1.50	
L2452951-20	1	23	0.16122		1.50	
L2452951-22	1	24	0.04567		1.50	
L2452951-23	1	25	0.01348		1.50	
L2453273-01; 10X	1	26	25.17026		15.00	
L2453273-02; 10X	1	27	24.45352		15.00	
L2453069-01	1	28	0.07970		1.50	
CCV 0.4000	1	S6	0.40443	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.05406	101%		
	Known Conc:		100.00000			
CCB	1	S10	0.02106	✓		
	Known Conc:		100.00000			

F2

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

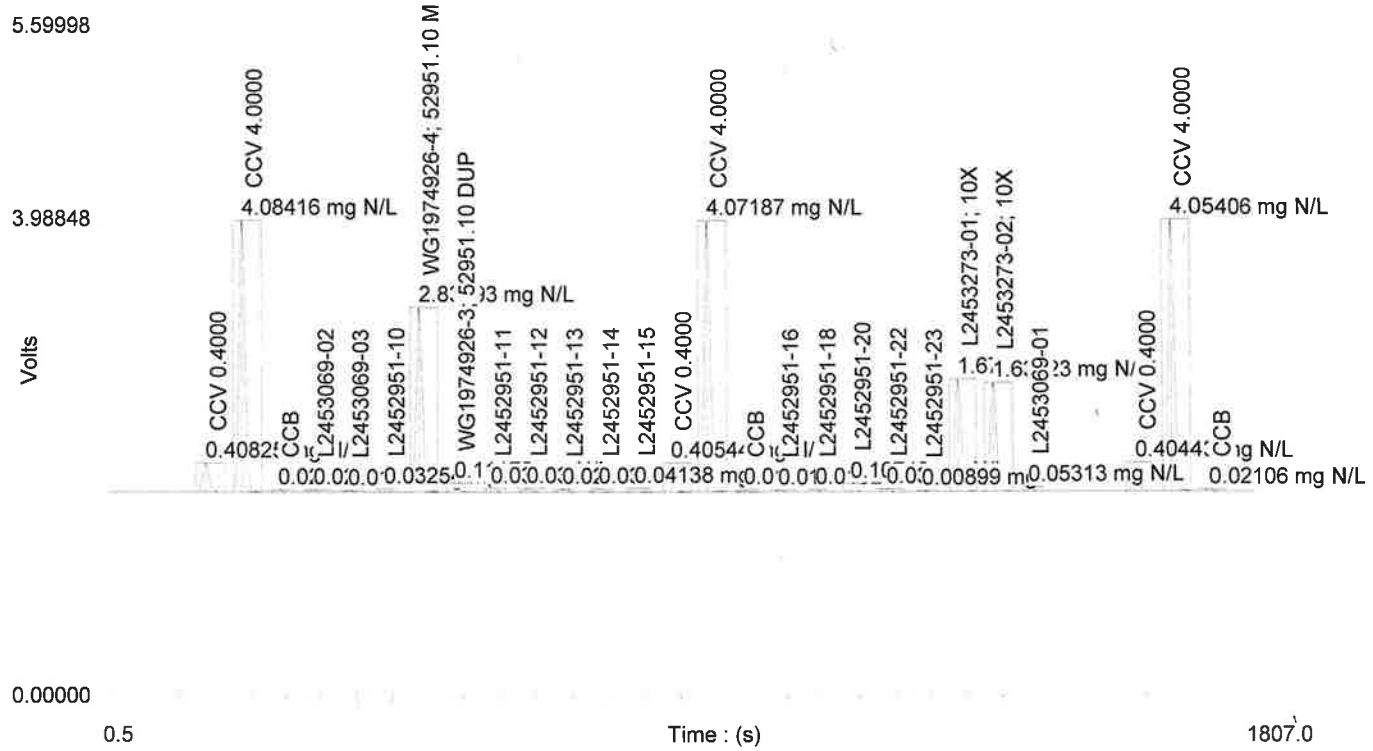
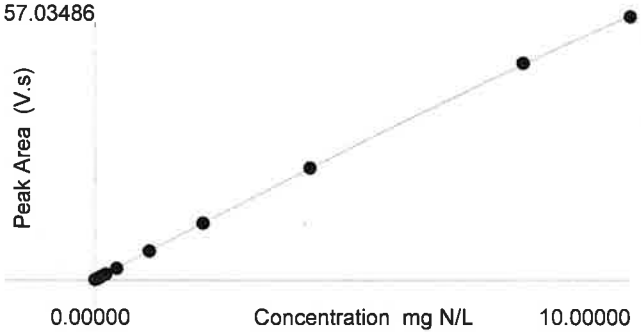


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Area = - 0.05371 * Conc^2 + 6.25570 * Conc + 0.09691
Conc = 0.00027 * Area^2 + 0.15904 * Area - 0.01507
Correlation Coefficient (r) = 1.00000

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_07-12-32PM.OMN Created: 9/24/2024 7:12:32 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_07-12-32PM.OMN Last Modified: 9/24/2024 7:43:51 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

G

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40012	100%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.02657	101%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02068			
	Known Conc:		100.00000			
WG1974990-1 T; BLK 9/23	1	1	0.00481			
WG1974990-2 T; HI LCS; 5X	1	2	38.93412		15.00	97%
LO LCS T	1	3	4.30572		3.00	108%
L2453131-01 T	1	4	27.89323		3.00	
L2453131-02 T	1	5	7.06766		3.00	
L2453123-02 T	1	6	1.50666		3.00	
L2453274-01 T	1	7	0.38847		3.00	
WG1974990-4 T; 53274.1 MS	1	8	8.75431		3.00	105%
WG1974990-3 T; 53274.1 DUP	1	9	0.69545		3.00	57% (<CF×RL)
L2453274-02 T	1	10	0.35977		3.00	
CCV 0.4000	1	S6	0.40950	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00307	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.02318			
	Known Conc:		100.00000			
L2453274-03 T	1	11	0.35934		3.00	
L2453274-04 T	1	12	0.30229		3.00	
L2453274-05 T	1	13	0.58463		3.00	
L2453274-06 T	1	14	0.24626		3.00	
L2453274-07 T	1	15	0.19364		3.00	
L2453274-08 T	1	16	0.13591		3.00	
L2453279-01 T	1	17	0.28698		3.00	
L2453279-02 T	1	18	0.05338		3.00	
L2453279-03 T	1	19	2.89454		3.00	
L2453279-04 T	1	20	1.04419		3.00	
CCV 0.4000	1	S6	0.40364	101%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.00001	100%		
	Known Conc:		100.00000			
CCB	1	S10	0.01998			
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

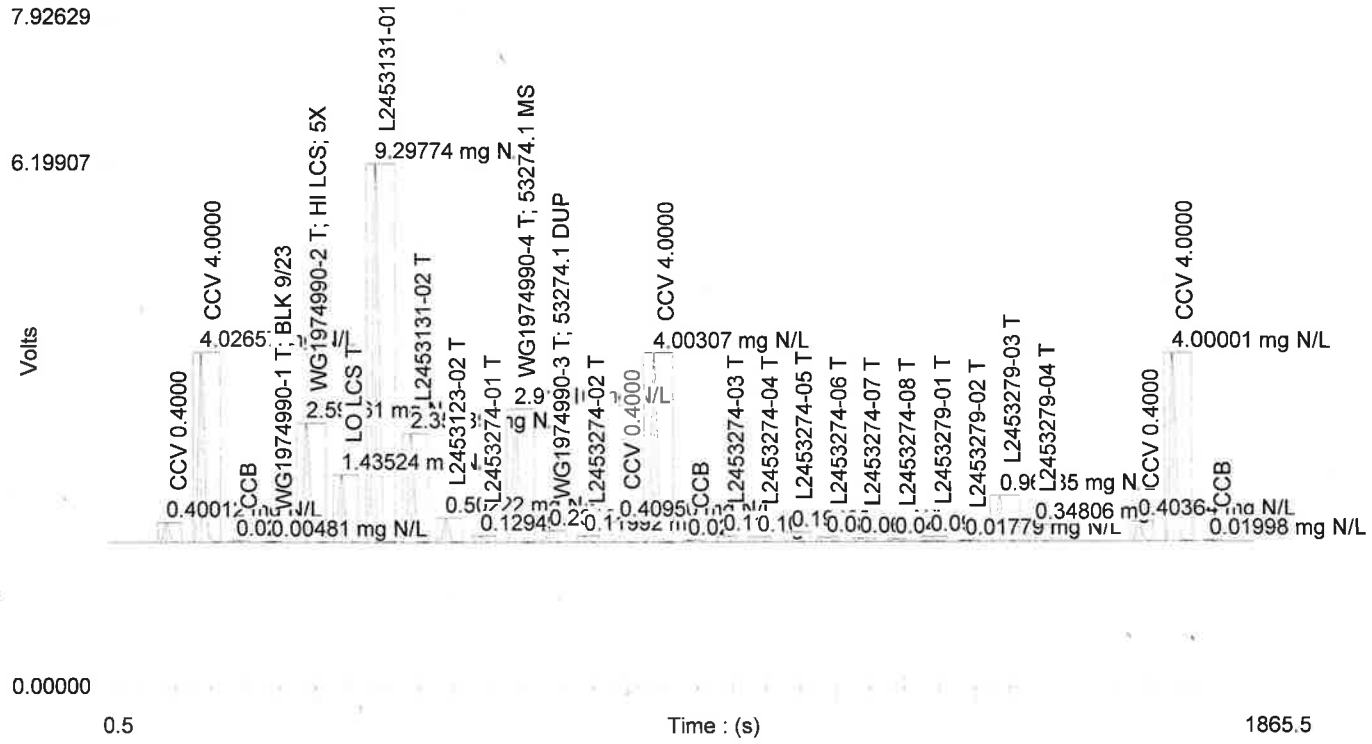
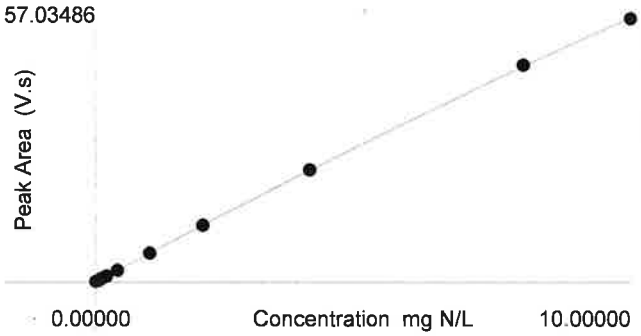


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 9/24/2024

Original Run Filename: OM_9-24-2024_08-21-13PM.OMN Created: 9/24/2024 8:21:13 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_9-24-2024_08-21-13PM.OMN Last Modified: 9/24/2024 8:59:09 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

H

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.38445	96%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.91557	98%		
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01951	✓		
	Known Conc:		100.00000			
WG1974994-1 T; BLK 9/23	1	1	0.01439			97%
WG1974994-2 T; HI LCS; 5X	1	2	38.65418		15.00	
LO LCS T	1	3	4.12006		3.00	103%
L2453134-01 T	1	4	~~54.40591~~		3.00	w/dilution
L2453134-02 T	1	5	~~8.18690~~		3.00	
L2453170-01 T	1	6	~~43.39964~~		3.00	
L2453118-01 T	1	7	~~4.18830~~		3.00	
L2453285-01 T	1	8	2.03259		3.00	
L2453285-02 T	1	9	1.45161		3.00	
L2453285-03 T	1	10	0.68758		3.00	
CCV 0.4000	1	S6	0.41324	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96176	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.03083	✓		
	Known Conc:		100.00000			
L2453285-04 T	1	11	0.84950		3.00	
L2453290-01 T	1	12	4.69295		3.00	
L2453290-02 T	1	13	0.29413		3.00	
L2453290-03 T	1	14	0.32899		3.00	
L2453290-04 T	1	15	0.59957		3.00	
L2453293-01 T	1	16	0.30738	✓	3.00	
WG1974994-4 T; 53293.1 MS	1	17	8.62890		3.00	104%
WG1974994-3 T; 53293.1 DUP	1	18	0.59784	✓	3.00	64% (LCS+LL)
L2453293-02 T	1	19	0.17907		3.00	
L2453293-03 T	1	20	0.13291		3.00	
CCV 0.4000	1	S6	0.40742	102%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95537	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.02495	✓		
	Known Conc:		100.00000			
L2453134-01 T; 10X	1	21	76.49265		30.00	
L2453134-02 T	1	22	7.07148		3.00	
L2453170-01 T; 10X	1	23	52.41485		30.00	
L2453118-01 T	1	24	3.24589		3.00	
CCV 0.4000	1	S6	0.41158	103%		
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.95401	99%		
	Known Conc:		100.00000			
CCB	1	S10	0.02732	✓		
	Known Conc:		100.00000			

Author: A1WETCHEMINSTRUMENT

Date : 9/24/2024

Channel 2 (Ammonia High) - Current View

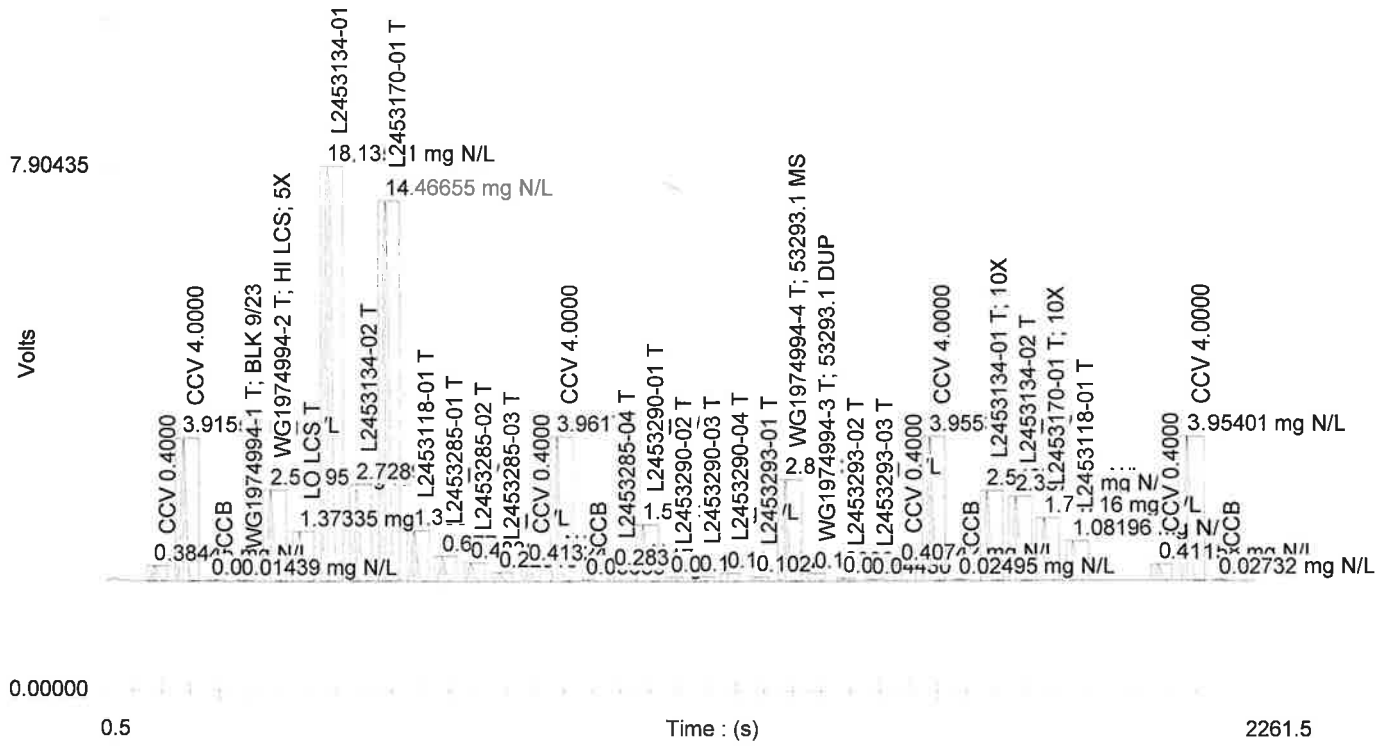
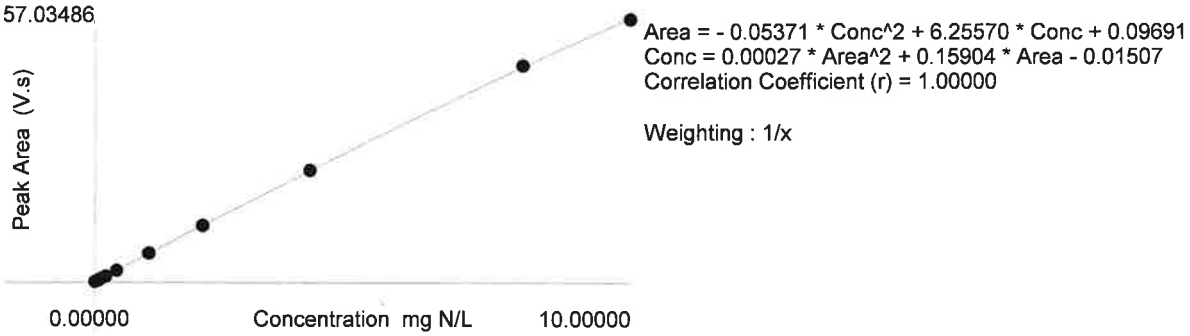


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	57.03486	5.00999	0.0	0.4	9.94361	9/24/2024	2:16:14 PM
2	8.00000	1	46.98870	4.23039	0.0	-0.6	8.06060	9/24/2024	2:17:11 PM
3	4.00000	1	24.32747	2.25921	0.0	-0.3	4.01544	9/24/2024	2:18:08 PM
4	2.00000	1	12.35860	1.14107	0.0	0.3	1.99209	9/24/2024	2:19:05 PM
5	1.00000	1	6.33612	0.58405	0.0	-0.6	1.00356	9/24/2024	2:20:03 PM
6	0.40000	1	2.53347	0.23108	0.0	2.2	0.38960	9/24/2024	2:21:01 PM
7	0.20000	1	1.32409	0.12094	0.0	1.6	0.19599	9/24/2024	2:21:59 PM
8	0.10000	1	0.73844	0.06227	0.0	-2.3	0.10252	9/24/2024	2:22:57 PM
9	0.05000	1	0.36655	0.03237	0.0	10.5	0.04327	9/24/2024	2:23:55 PM
10	0.00000	1	0.14190	0.01240			0.00751	9/24/2024	2:24:51 PM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453342-06		
Matrix Spike	: WG1974257-4	**MS Analysis Date**	: 09/23/24 16:14
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	ND	8	8.77	110					77-111	24

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975410-4	**MS Analysis Date**	: 09/24/24 16:46
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Nitrogen, Total Kjeldahl	ND	8	6.66	83					77-111	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/23/24 16:13
Dup Sample ID	: WG1974257-3	**DUP Analysis Date**	: 09/23/24 16:15

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	0.356	NC	24

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/24/24 16:45
Dup Sample ID	: WG1975410-3	**DUP Analysis Date**	: 09/24/24 16:47

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	0.243J	NC	24

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974257-2	**LCS Analysis Date**	: 09/23/24 15:27
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**38.2**	**96.**					**78-122**	**24**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975410-2	**LCS Analysis Date**	: 09/24/24 16:40
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**37.9**	**95.**					**78-122**	**24**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ____

Try A
PP 9120 e 8:41

Hi ICV 8.0
Lo ICV 1.0
ICB
wx1974167-1 T: Bk
-2 T: Ls
Lo Res
52663.1 T (10<) ② 20x (0.5 to 10)
52665.1 T (2<5) ②
2 T
52666.1 T
2 T
52734.1 T
52743.1 T
2 T
3 T
4 T
52829.1 T (10<) ② 20x (0.5 to 10)
52961.1 T
52962.1 T
53063.1 T
.1 Ins
.1 Dup
53750.1 T

Try B
PP 9123 e 1:48

wx1974881-1: Bk
-2: Res
Lo Res
50933.1
51391.26
52661.1
2
52665.1
2
52666.1
2
52844.1
53629.1
.1 Ins
.1 Dup

To Page No. ____

Witnessed & Understood by me, Date

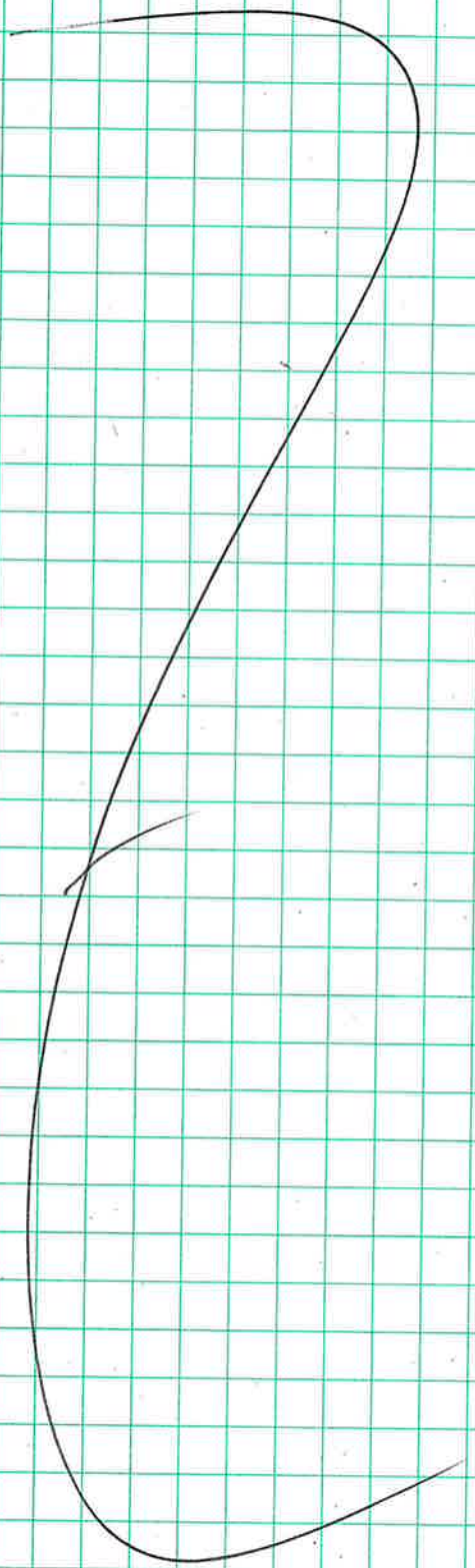
Invented by: Date

Recorded by:

Tray C
RP 9120e 16:03

WG1974257-1 T: Bk
-2 T: Lus

Lo Lus
541391.23 T
24 T
25 T
26 T (2x)
533422 1 T
2 T
3 T
4 T
5 T
6 T
6 Lus
6 Dup
7 T
8 T
10 T
537200 1 T
3 T
4 T
6 T
7 T
8 T
9 T



To Page No. ____

ssed & Understood by me,

Date

Invented by:

Date

Recorded by:

Project No. _____

ential Book No. _____ TITLE NH3 9/24/24

ige No.

A (02-07-39 PM)

- 9/26 @ 16:51

ICV 6.0

LO ICV 10

ICB

WU1974611-1 . BL

-2 : L

Lo Levs

53309.2 (2x)

53404.2

3 (2x)

8

11 (2<)

14 (2<)

17

20

23

26

53422.2 (2x)

4

6

8

10

12

14

16 (2x)

18

20

20 Avg

20 Dup

T B (03-11-30 PM)

RF

9/23 @ 13:25

WU1974987-1 T . BL

-2 T : L

Lo Levs

1 52439.1 T

2

3 3 T

4 52659.1 T R 10x (1 T 10 M)

5 2 T R

6 52661-1 T R 10x (1 T 10 M)

7 2 T R

8

9

10 52954.2 T

11 53069.1 T

12 2 T

13 3 T

14 53116.1 T

15 53562.1 T

16 53588.1 T

17 53857.1 T R (10x) 1 T 10 M

18 2 T R

19 52661.2 Avg

20 2 Dup

21

→ 03-12-30 PM

Date: 9/24/24

Sodium Phenolate: 8/30/24 R-4065

Sodium Hypochlorate: 8/30/24 7.0 to 9.0

Sodium Nitropruisside: 8/30/24 R-5769

Borric Acid Soln.: 8/30/24 R-4019

ICV 1.0: 9/11/24 WC-3476

ICV 8.0:

Cal. Std: 8/30/24 WC-3392

See Front Page for Instructions:

to Page No. ____

ed & Understood by me, | Date | Invented by: | Date

Recorded by:

TITLE NH3 9/24/14 (AM Cont) Project No. _____ Book No. _____ Confide

From Page No. _____

Trq C (04-34-54 pm)
RP 9124 @ 7:38

1 WL#1975410-1 T: Zu
2 -2 T: ↳
3 Lo ↳
4 53342-10 T
5 53400-1 T
6 2 T
7 53720-2 T
8 720 .2 ↳
9 .2 Duo
10 54050-1 T
11 2 T
12 3 T
13 4 T
14 54059-1 T
15 2 T
16
17
18
19
20

tq ⇒ (05-03-37 pm)
Rig 9/23/14 @ 0144

1 WL#1974880-1: Blu 9/23
2 WL#1974880-2; Hi ws + T
3 Lo ws
4 52663.1 (20 T) -50 T
5 52825-1 (2 T)
6 52839.1 (2 T)
7 .3
8 52862-7
9 .10
10 .13
11 .16
12 .19
13 .22
14 52951.1
15 .2
16 .3
17 .4
18 .5
19 .7
20 .8
21 .9
22 WL#1974880-4; 52951.9 ws
23 WL#1974880-3; 52951.9 Rig
24 51318-1
25 .2

To Page N

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

tmp E (05-45-28 pm)
Pmp 9/23/24 @1235

1	WG197493I-1; Blu 9/23
2	WG197493I-2; Hi vs T+
3	(vs)
4	53072.1 (Se)
5	.2 (Se)
6	.3 (ST)
7	.4 (ST)
8	53118.1
9	53285.1
10	.2
11	.3
12	.4
13	53198.2 (ST)
14	.3
15	53123.2
16	52994.1
17	.2
18	52967.1
19	WG197493I-4; 52967.1 MS
20	WG197493I-3; 52967.1 Rp
21	52967.2
22	.3
23	.5
24	.6
25	

tmp F (05-24-02 pm)
Pmp 9/23/24 @1230

1	WG197492G-1. Blu 9/23
2	WG197492G-2; Hi vs T+
3	(vs)
4	53120.1 (ST)
5	.2
6	53130.1
7	.2
8	53273.1 -10+
9	.2 -10+
10	53069.1
11	.2
12	.3
13	52951.10
14	WG197492G-4; 52951.10 MS
15	WG197492G-3; 52951.10 Rp
16	52951.11
17	.12
18	.13
19	.14
20	.15
21	.16
22	.18
23	.20
24	.22
25	.23

→ 06.41.33 pm

ssed & Understood by me, Date Invented by: Date
Recorded by:

WHs 9/24/24 (AP) Cont'd

TITLE _____ Project No. _____ Book No. _____ Confic

From Page No. ____

Eg. G (07-12-32 PM)
Pup 9/23/24 @ 1330

1 WH-1974990-1 T; Blk 9/23
2 WH-1974990-2 T; Hi WS T+
3 Lo WS T
4 53131.1 T
5 .2 T
6 53123.2 T
7 53274.1 T
8 WH-1974990-4 T; 53274.1 MS
9 WH-1974990-3 T; 53274.1 SB
10 53274.2 T
11 .3 T
12 .4 T
13 .5 T
14 .6 T
15 .7 T
16 .8 T
17 53279.1 T
18 .2 T
19 .3 T
20 .4 T

Eg. H (08-21-13 PM)
Pup 9/23/24 @ 1340

1 WH-1974994-1 T; Blk 9/23
2 WH-1974994-2 T; Hi WS T+
3 Lo WS T
4 53134.1 T -10 T+
5 .2 T
6 53170.1 T -10 T+
7 53168.1 T
8 53485.1 T
9 .2 T
10 .3 T
11 .4 T
12 53290.1 T
13 .2 T
14 .3 T
15 .4 T
16 53293.1 T
17 WH-1974994-4 T; 53293.1 MS
18 WH-1974994-3 T; 53293.1 SB
19 53293.2 T
20 .5 T

To Page N

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Sample Preparation

From Page No. ____

Sample	Volume 50 ml	Dilution	Final Volume 150 ml
Blank		1x	
Low			
High			
53342-10			
53400-1			
-2			
53720-2 PA			
-2 DUP			
-2 MS			
54050-1			
-2			
-3			
-4			
54059-1			
-2			

Same standards and reagents as pg. ~~#~~ 99
Nitrates checked.

09/24/24 @ 07:38 AJC

Distilled by SAD 09 24 24 @ 15:05

To Page No. ____

Witnessed & Understood by me, Date

Invented by: Date

WG1974257

Sample	Dilution	Volume	Final vol.
Blank	1X	50mL	150mL
Low			
High			
L2451391-23			
-24			
-25			
-26	2X (25↑50) MX.		
53342-01	1X		
-02			
-03			
-04			
-05			
-06 Pt			
-06 Dup			
-06 MS			
-07			
-08			
-10			
53720-01			
-03			
-04			
-06			
-07			
-08			
-09			

Same Std's & Reagents as previous pg #95 Nitrates checked

09 20 24 @ 16:03 SAD

Distilled by SAD on 092124 @ 09:00

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-01	**Date Collected**	:	09/18/24 09:10
Client ID	:	MW-8S	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 09:22
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240924-C1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.2	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 09:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-C1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	3.8	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-03	**Date Collected**	:	09/18/24 12:00
Client ID	:	DUP_091824	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 07:05
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240924-B1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.2	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-04	**Date Collected**	:	09/18/24 14:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 07:07
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240924-B1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	6.6	0.10	0.046	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-07	**Date Collected**	:	09/18/24 11:25
Client ID	:	PZ-5	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 07:09
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500NO3-F	**Analyst**	:	KAF
Lab File ID	:	NO3240924-B1	**Instrument ID**	:	FIA1
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.88	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	2.1	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-B1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	5.0	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975296-1	**Date Collected**	: NA
Client ID	: WG1975296-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 03:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-A1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975296-3	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8DDUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 09:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3240924-C1	**Instrument ID**	: FIA1
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	3.8	0.10	0.05	

Sample Raw Data

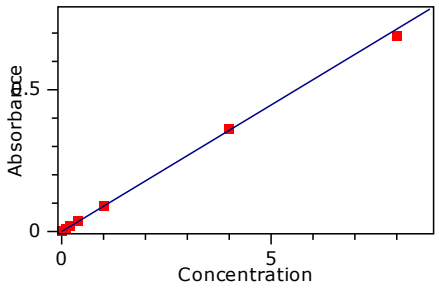
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-24 06:11:22
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-24-061102.dat

Dataset Notes:

Analyst	

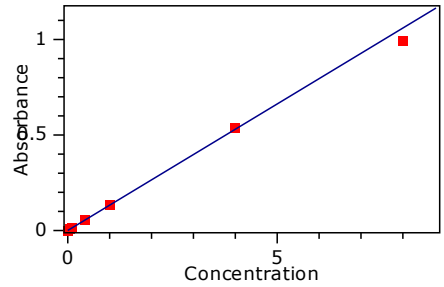
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00010
B: 0.08927
R^2: 0.99950
RSE(%): 2.27501
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
2	NOx 8.0ppm	0.68930	8.00000	7.72280	3.46	2024-09-24T03:16:51
3	NOx 4.0ppm	0.36120	4.00000	4.04740	1.19	2024-09-24T03:18:01
4	NOx 1.0ppm	0.08960	1.00000	1.00470	0.47	2024-09-24T03:19:08
5	NOx 0.4ppm	0.03640	0.40000	0.40850	2.12	2024-09-24T03:20:16
6	NOx 0.2ppm	0.01800	0.20000	0.20240	1.18	2024-09-24T03:21:26
7	NOx 0.1ppm	0.00870	0.10000	0.09890	1.08	2024-09-24T03:22:36
8	NOx 0.0ppm	0.00010	0.00000	0.00240	NA	2024-09-24T03:23:45



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00031
B: 0.13245
R^2: 0.99841
RSE(%): 4.16024
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
9	Nitrite 8.0ppm	0.99100	8.00000	7.47950	6.51	2024-09-24T03:24:45
10	Nitrite 4.0ppm	0.53820	4.00000	4.06100	1.53	2024-09-24T03:25:55
11	Nitrite 1.0ppm	0.13610	1.00000	1.02510	2.51	2024-09-24T03:27:02
12	Nitrite 0.4ppm	0.05540	0.40000	0.41610	4.02	2024-09-24T03:28:12
13	Nitrite 0.1ppm	0.01370	0.10000	0.10100	0.98	2024-09-24T03:29:21
14	Nitrite 0.05ppm	0.00690	0.05000	0.04950	1.08	2024-09-24T03:30:31
15	Nitrite 0.0ppm	0.00010	0.00000	-0.00160	NA	2024-09-24T03:32:03

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0011	1	1	1	0.0134		2024-09-24T03:15:36
NOx 8.0ppm	2	Standard	8	0.6893	1	1	1	7.7228		2024-09-24T03:16:51
NOx 4.0ppm	3	Standard	4	0.3612	1	1	1	4.0474		2024-09-24T03:18:01
NOx 1.0ppm	4	Standard	1	0.0896	1	1	1	1.0047		2024-09-24T03:19:08
NOx 0.4ppm	5	Standard	0.4	0.0364	1	1	1	0.4085		2024-09-24T03:20:16
NOx 0.2ppm	6	Standard	0.2	0.0180	1	1	1	0.2024		2024-09-24T03:21:26
NOx 0.1ppm	7	Standard	0.1	0.0087	1	1	1	0.0989		2024-09-24T03:22:36
NOx 0.0ppm	8	Standard	0	0.0001	1	1	1	0.0024		2024-09-24T03:23:45
Nitrite 8.0ppm	9	Standard	?	0.6946	1	1	1	7.7821	OVR	2024-09-24T03:24:57
Nitrite 4.0ppm	10	Standard	?	0.3656	1	1	1	4.0971		2024-09-24T03:26:07
Nitrite 1.0ppm	11	Standard	?	0.0909	1	1	1	1.0194		2024-09-24T03:27:15
Nitrite 0.4ppm	12	Standard	?	0.0366	1	1	1	0.4109		2024-09-24T03:28:23
Nitrite 0.1ppm	13	Standard	?	0.0089	1	1	1	0.1004		2024-09-24T03:29:33
Nitrite 0.05ppm	14	Standard	?	0.0045	1	1	1	0.0513		2024-09-24T03:30:43
Nitrite 0.0ppm	15	Standard	?	0.0001	1	1	1	0.0018		2024-09-24T03:32:08
CCV NO3	16	QC	1	0.0900	1	1	1	1.0091		2024-09-24T03:33:01
CCV NO2	17	QC	?	0.0906	1	1	1	1.0159		2024-09-24T03:34:07
CCB	18	QC	0	0.0000	1	1	1	0.0014		2024-09-24T03:35:15
ICV NO3 5.0	19	QC	5	0.4361	1	1	1	4.8868		2024-09-24T03:36:25
ICV NO2 5.0	20	QC	?	0.4344	1	1	1	4.8669		2024-09-24T03:37:33
ICV NO3 0.5	21	QC	0.5	0.0427	1	1	1	0.4791		2024-09-24T03:38:41
ICV NO2 0.5	22	QC	?	0.0435	1	1	1	0.4879		2024-09-24T03:39:49
ICB	23	QC	0	0.0000	1	1	1	0.0008		2024-09-24T03:40:32
BLANK NO3	24	Unknown	?	0.0000	1	1	1	0.0015		2024-09-24T03:42:10
LCS NO3	25	Unknown	?	0.4351	1	1	1	4.8756		2024-09-24T03:43:13
BLANK NO2	26	Unknown	?	-0.0002	1	1	1	-0.0007		2024-09-24T03:43:53
LCS NO2	27	Unknown	?	0.4309	1	1	1	4.8278		2024-09-24T03:45:26
CCV NO3	28	QC	1	0.0891	1	1	1	0.9993		2024-09-24T03:46:32
CCV NO2	29	QC	?	0.0910	1	1	1	1.0205		2024-09-24T03:47:38
CCB	30	QC	0	0.0000	1	1	1	0.0014		2024-09-24T03:48:47
WG1975294-1	31	Unknown	?	0.0001	1	1	1	0.0020		2024-09-24T03:50:05
WG1975294-2	32	Unknown	?	0.4367	1	1	1	4.8927		2024-09-24T03:51:04

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1975295-1	33	Unknown	?	-0.0002	1	1	1	-0.0010		2024-09-24T03:51:43
WG1975295-2	34	Unknown	?	0.4386	1	1	1	4.9144		2024-09-24T03:53:15
WG1975296-1	35	Unknown	?	-0.0001	1	1	1	0.0000		2024-09-24T03:53:55
WG1975296-2	36	Unknown	?	0.4386	1	1	1	4.9141		2024-09-24T03:55:28
WG1975297-1	37	Unknown	?	-0.0001	1	1	1	0.0002		2024-09-24T03:56:09
WG1975297-2	38	Unknown	?	0.4383	1	1	1	4.9110		2024-09-24T03:57:42
L2453804-01	39	Unknown	?	0.1071	1	1	1	1.2010		2024-09-24T03:58:49
WG1975294-3	40	Unknown	?	0.1069	1	1	1	1.1985		2024-09-24T03:59:56
CCV NO3	41	QC	1	0.0908	1	1	1	1.0182		2024-09-24T04:01:02
CCV NO2	42	QC	?	0.0916	1	1	1	1.0276		2024-09-24T04:02:07
CCB	43	QC	0	0.0000	1	1	1	0.0014		2024-09-24T04:03:15
WG1975294-4	44	Unknown	?	0.4626	1	1	1	5.1828		2024-09-24T04:04:26
L2453807-02	45	Unknown	?	0.1935	1	1	1	2.1690		2024-09-24T04:05:34
WG1975294-5	46	Unknown	?	0.1939	1	1	1	2.1730		2024-09-24T04:06:40
WG1975294-6	47	Unknown	?	0.5447	1	1	1	6.1028		2024-09-24T04:07:46
L2453808-03	48	Unknown	?	0.0007	1	1	1	0.0092		2024-09-24T04:08:51
L2453894-01	49	Unknown	?	0.0040	1	1	1	0.0458		2024-09-24T04:09:57
L2453894-02	50	Unknown	?	0.5222	1	1	1	5.8512		2024-09-24T04:11:01
L2453894-03	51	Unknown	?	0.2097	1	1	1	2.3506		2024-09-24T04:12:07
L2453894-04	52	Unknown	?	0.0079	1	1	1	0.0897		2024-09-24T04:13:11
L2453894-05	53	Unknown	?	0.0153	1	1	1	0.1730		2024-09-24T04:14:15
CCV NO3	54	QC	1	0.0897	1	1	1	1.0063		2024-09-24T04:15:20
CCV NO2	55	QC	?	0.0902	1	1	1	1.0115		2024-09-24T04:16:26
CCB	56	QC	0	0.0001	1	1	1	0.0022		2024-09-24T04:17:35
L2453894-06	57	Unknown	?	0.0155	1	1	1	0.1752		2024-09-24T04:18:47
L2453894-07	58	Unknown	?	0.0206	1	1	1	0.2319		2024-09-24T04:19:56
L2453894-08	59	Unknown	?	0.0054	1	1	1	0.0611		2024-09-24T04:21:03
L2453894-09	60	Unknown	?	0.0010	1	1	1	0.0125		2024-09-24T04:22:10
L2453894-10	61	Unknown	?	0.0196	1	1	1	0.2212		2024-09-24T04:23:17
L2453894-11	62	Unknown	?	0.0011	1	1	1	0.0132		2024-09-24T04:24:23
CCV NO3	63	QC	1	0.0888	1	1	1	0.9959		2024-09-24T04:25:28
CCV NO2	64	QC	?	0.0900	1	1	1	1.0091		2024-09-24T04:26:34
CCB	65	QC	0	0.0000	1	1	1	0.0011		2024-09-24T04:27:19

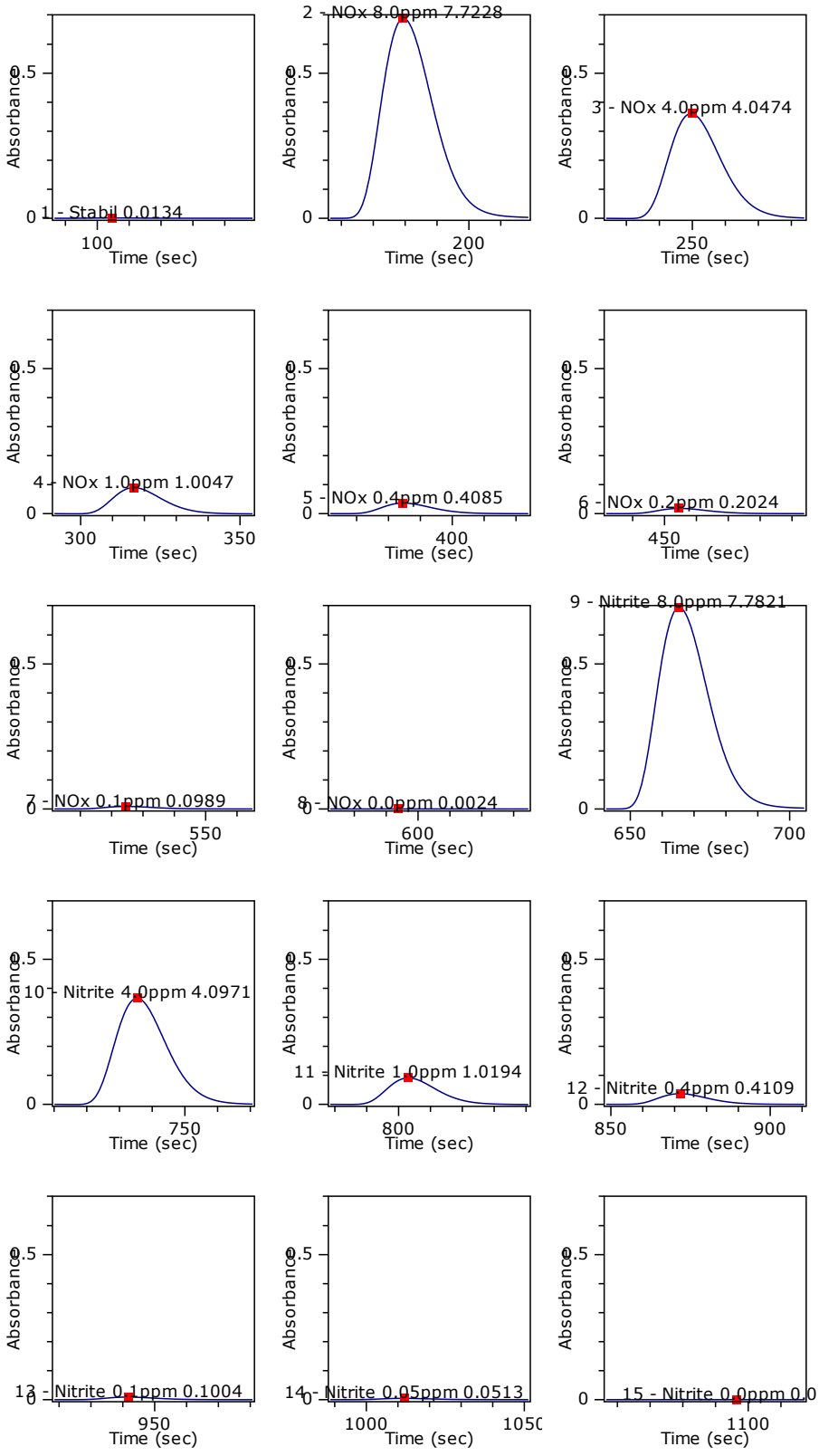
Channel: 2-NO2

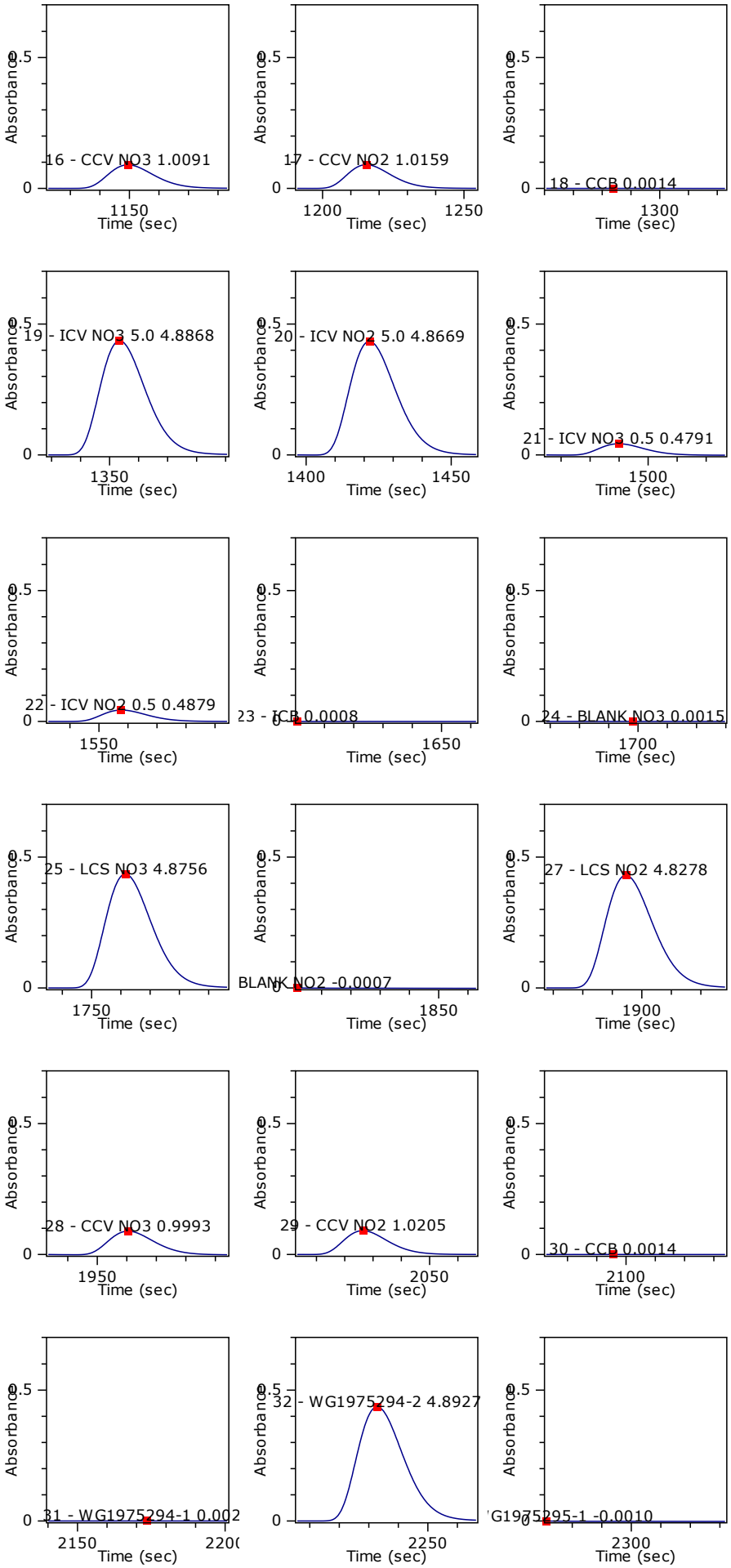
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T03:15:56
NOx 8.0ppm	2	Standard	?	0.0000	1	1	1	-0.0020		2024-09-24T03:16:36
NOx 4.0ppm	3	Standard	?	0.0001	1	1	1	-0.0017		2024-09-24T03:17:56
NOx 1.0ppm	4	Standard	?	0.0001	1	1	1	-0.0019		2024-09-24T03:19:39
NOx 0.4ppm	5	Standard	?	0.0001	1	1	1	-0.0017		2024-09-24T03:20:33
NOx 0.2ppm	6	Standard	?	0.0000	1	1	1	-0.0021		2024-09-24T03:21:18
NOx 0.1ppm	7	Standard	?	0.0001	1	1	1	-0.0017		2024-09-24T03:23:13
NOx 0.0ppm	8	Standard	?	0.0000	1	1	1	-0.0019		2024-09-24T03:24:17
Nitrite 8.0ppm	9	Standard	8	0.9910	1	1	1	7.4795		2024-09-24T03:24:45
Nitrite 4.0ppm	10	Standard	4	0.5382	1	1	1	4.0610		2024-09-24T03:25:55
Nitrite 1.0ppm	11	Standard	1	0.1361	1	1	1	1.0251		2024-09-24T03:27:02
Nitrite 0.4ppm	12	Standard	0.4	0.0554	1	1	1	0.4161		2024-09-24T03:28:12
Nitrite 0.1ppm	13	Standard	0.1	0.0137	1	1	1	0.1010		2024-09-24T03:29:21
Nitrite 0.05ppm	14	Standard	0.05	0.0069	1	1	1	0.0495		2024-09-24T03:30:31
Nitrite 0.0ppm	15	Standard	0	0.0001	1	1	1	-0.0016		2024-09-24T03:32:03
CCV NO3	16	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T03:33:03
CCV NO2	17	QC	1	0.1361	1	1	1	1.0248		2024-09-24T03:33:54
CCB	18	QC	0	0.0001	1	1	1	-0.0019		2024-09-24T03:35:06
ICV NO3 5.0	19	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T03:36:20
ICV NO2 5.0	20	QC	5	0.6427	1	1	1	4.8500		2024-09-24T03:37:21
ICV NO3 0.5	21	QC	?	0.0002	1	1	1	-0.0008		2024-09-24T03:38:31
ICV NO2 0.5	22	QC	0.5	0.0659	1	1	1	0.4953		2024-09-24T03:39:37
ICB	23	QC	0	0.0001	1	1	1	-0.0016		2024-09-24T03:40:51
BLANK NO3	24	Unknown	?	0.0001	1	1	1	-0.0015		2024-09-24T03:42:19
LCS NO3	25	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T03:43:20
BLANK NO2	26	Unknown	?	0.0001	1	1	1	-0.0019		2024-09-24T03:44:24
LCS NO2	27	Unknown	?	0.6397	1	1	1	4.8271		2024-09-24T03:45:13
CCV NO3	28	QC	?	0.0002	1	1	1	-0.0012		2024-09-24T03:46:21
CCV NO2	29	QC	1	0.1359	1	1	1	1.0237		2024-09-24T03:47:25
CCB	30	QC	0	0.0001	1	1	1	-0.0015		2024-09-24T03:48:42
WG1975294-1	31	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:49:42
WG1975294-2	32	Unknown	?	0.0001	1	1	1	-0.0015		2024-09-24T03:51:02

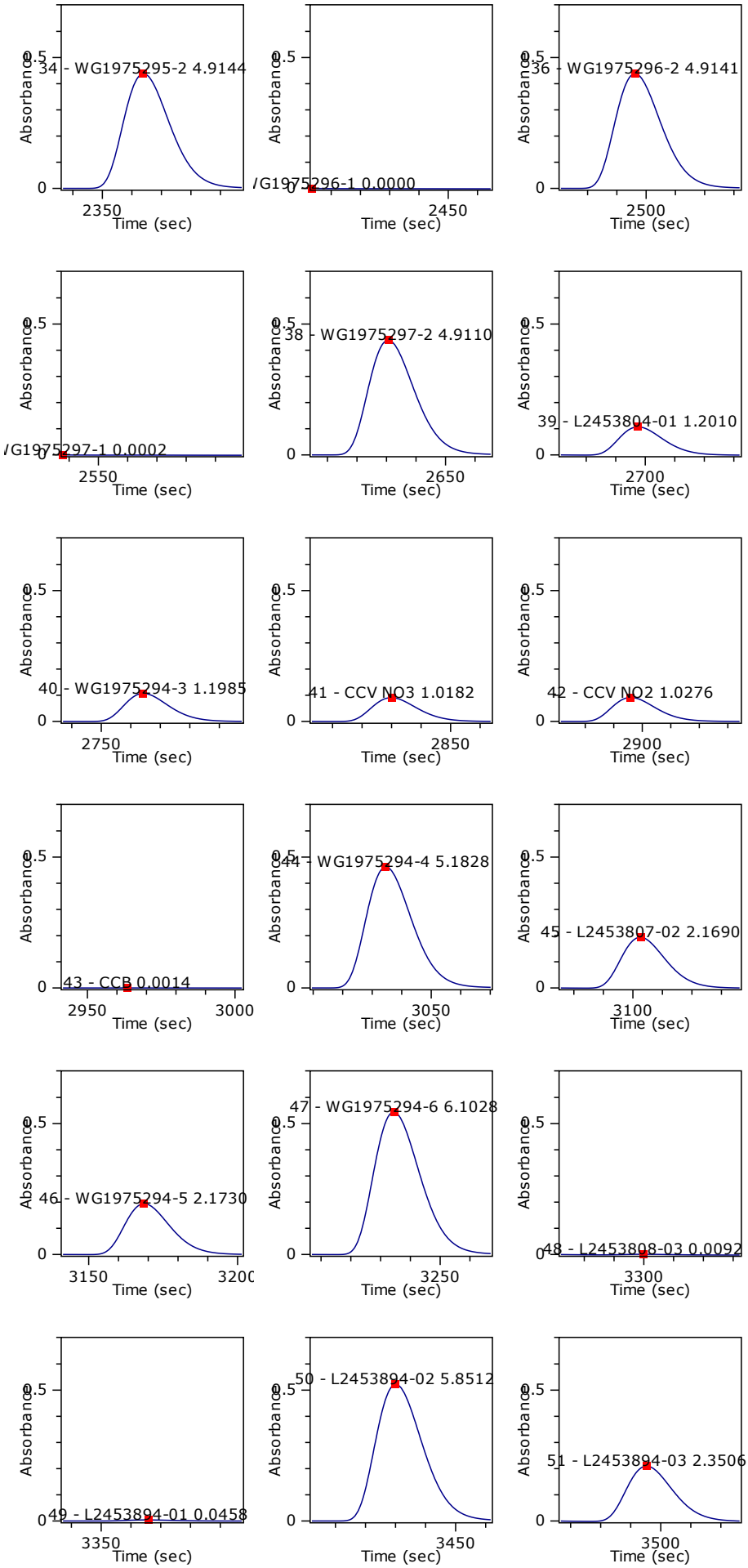
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1975295-1	33	Unknown	?	0.0000	1	1	1	-0.0019		2024-09-24T03:52:11
WG1975295-2	34	Unknown	?	0.0001	1	1	1	-0.0016		2024-09-24T03:52:56
WG1975296-1	35	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:54:24
WG1975296-2	36	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T03:55:25
WG1975297-1	37	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:56:29
WG1975297-2	38	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T03:57:38
L2453804-01	39	Unknown	?	0.0009	1	1	1	0.0042		2024-09-24T03:58:36
WG1975294-3	40	Unknown	?	0.0002	1	1	1	-0.0010		2024-09-24T03:59:43
CCV NO3	41	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T04:00:50
CCV NO2	42	QC	1	0.1373	1	1	1	1.0341		2024-09-24T04:01:54
CCB	43	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T04:03:06
WG1975294-4	44	Unknown	?	0.0043	1	1	1	0.0299		2024-09-24T04:04:13
L2453807-02	45	Unknown	?	0.0000	1	1	1	-0.0020		2024-09-24T04:05:20
WG1975294-5	46	Unknown	?	0.0001	1	1	1	-0.0017		2024-09-24T04:06:23
WG1975294-6	47	Unknown	?	0.0001	1	1	1	-0.0016		2024-09-24T04:07:32
L2453808-03	48	Unknown	?	0.0006	1	1	1	0.0025		2024-09-24T04:08:38
L2453894-01	49	Unknown	?	0.0009	1	1	1	0.0046		2024-09-24T04:09:42
L2453894-02	50	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T04:10:47
L2453894-03	51	Unknown	?	0.0009	1	1	1	0.0042		2024-09-24T04:11:53
L2453894-04	52	Unknown	?	0.0018	1	1	1	0.0115		2024-09-24T04:12:57
L2453894-05	53	Unknown	?	0.0009	1	1	1	0.0048		2024-09-24T04:14:01
CCV NO3	54	QC	?	0.0000	1	1	1	-0.0021		2024-09-24T04:15:41
CCV NO2	55	QC	1	0.1347	1	1	1	1.0147		2024-09-24T04:16:12
CCB	56	QC	0	0.0001	1	1	1	-0.0016		2024-09-24T04:17:24
L2453894-06	57	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T04:18:33
L2453894-07	58	Unknown	?	0.0011	1	1	1	0.0061		2024-09-24T04:19:43
L2453894-08	59	Unknown	?	0.0009	1	1	1	0.0049		2024-09-24T04:20:50
L2453894-09	60	Unknown	?	0.0008	1	1	1	0.0038		2024-09-24T04:21:58
L2453894-10	61	Unknown	?	0.0010	1	1	1	0.0052		2024-09-24T04:23:04
L2453894-11	62	Unknown	?	0.0010	1	1	1	0.0052		2024-09-24T04:24:09
CCV NO3	63	QC	?	0.0001	1	1	1	-0.0019		2024-09-24T04:25:19
CCV NO2	64	QC	1	0.1344	1	1	1	1.0122		2024-09-24T04:26:20
CCB	65	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T04:27:35

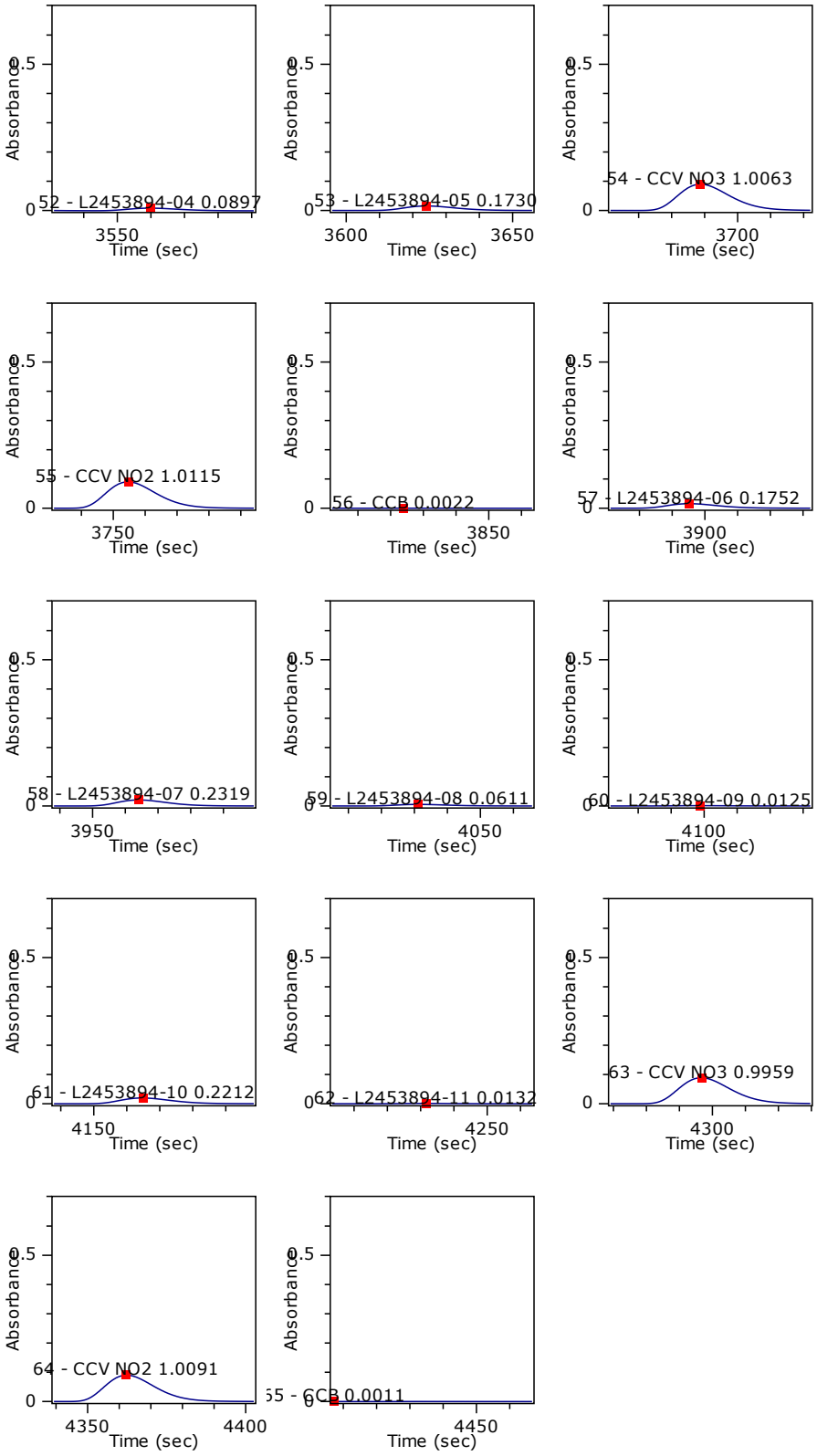
Peaks:

Channel: 1-NOx

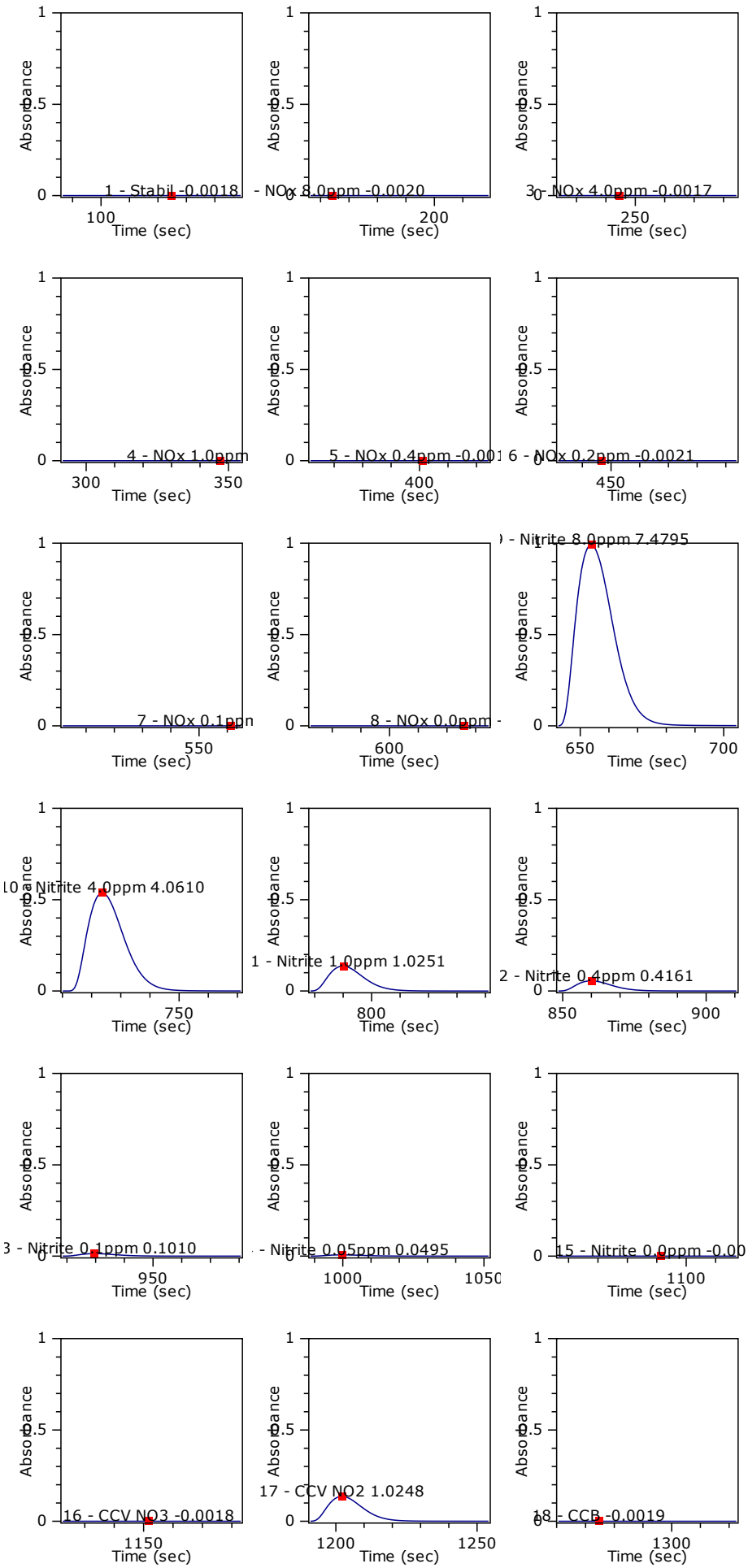


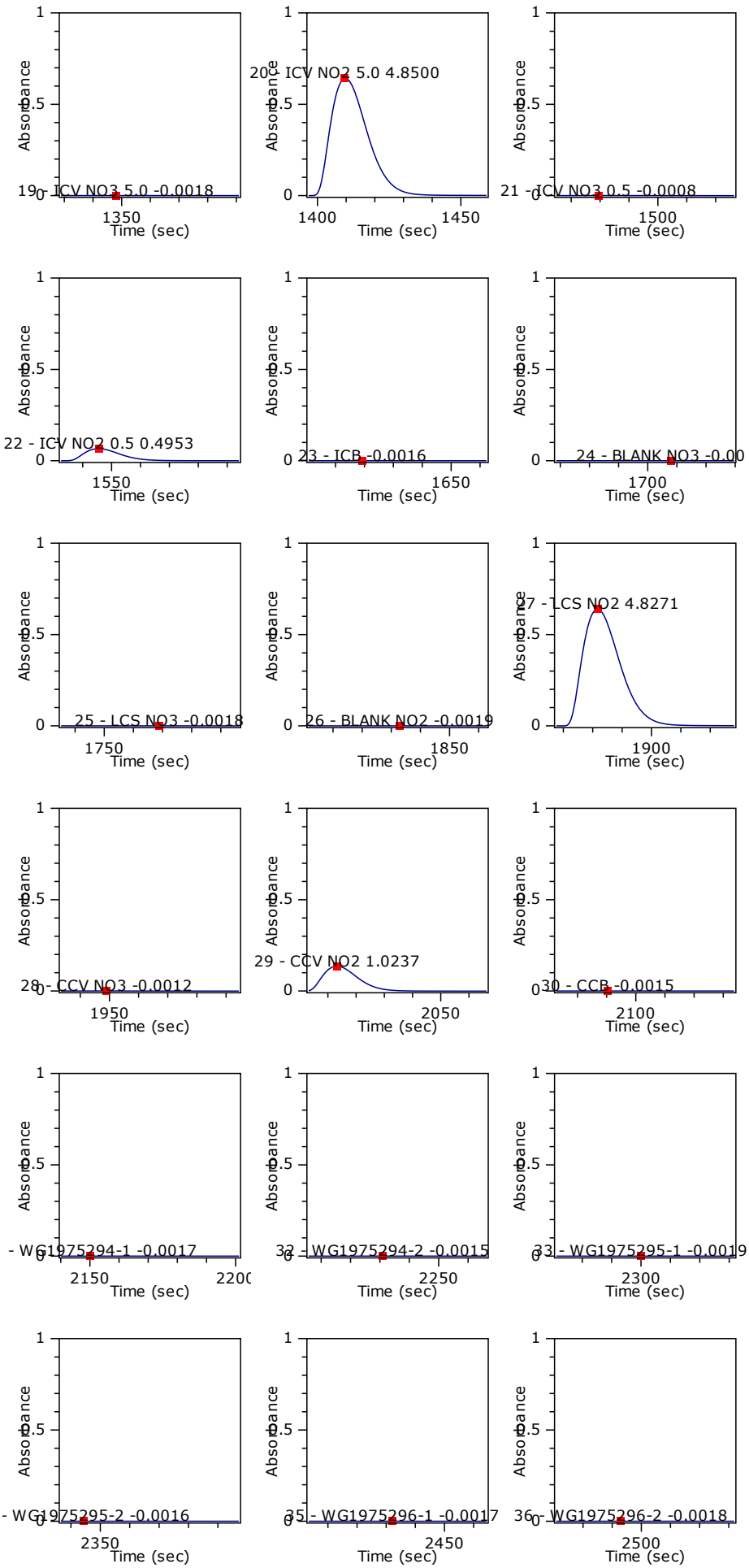

16 - CCV NO3 1.0091
17 - CCV NO2 1.0159
18 - CCB 0.0014
19 - ICV NO3 5.0 4.8868
20 - ICV NO2 5.0 4.8669
21 - ICV NO3 0.5 0.4791
22 - ICV NO2 0.5 0.4879
23 - ICB 0.0008
24 - BLANK NO3 0.0015
25 - LCS NO3 4.8756
BLANK NO2 -0.0007
27 - LCS NO2 4.8278
28 - CCV NO3 0.9993
29 - CCV NO2 1.0205
30 - CCB 0.0014
31 - WG1975294-1 0.002
32 - WG1975294-2 4.8927
G1975295-1 -0.0010
Absorbance
Time (sec)

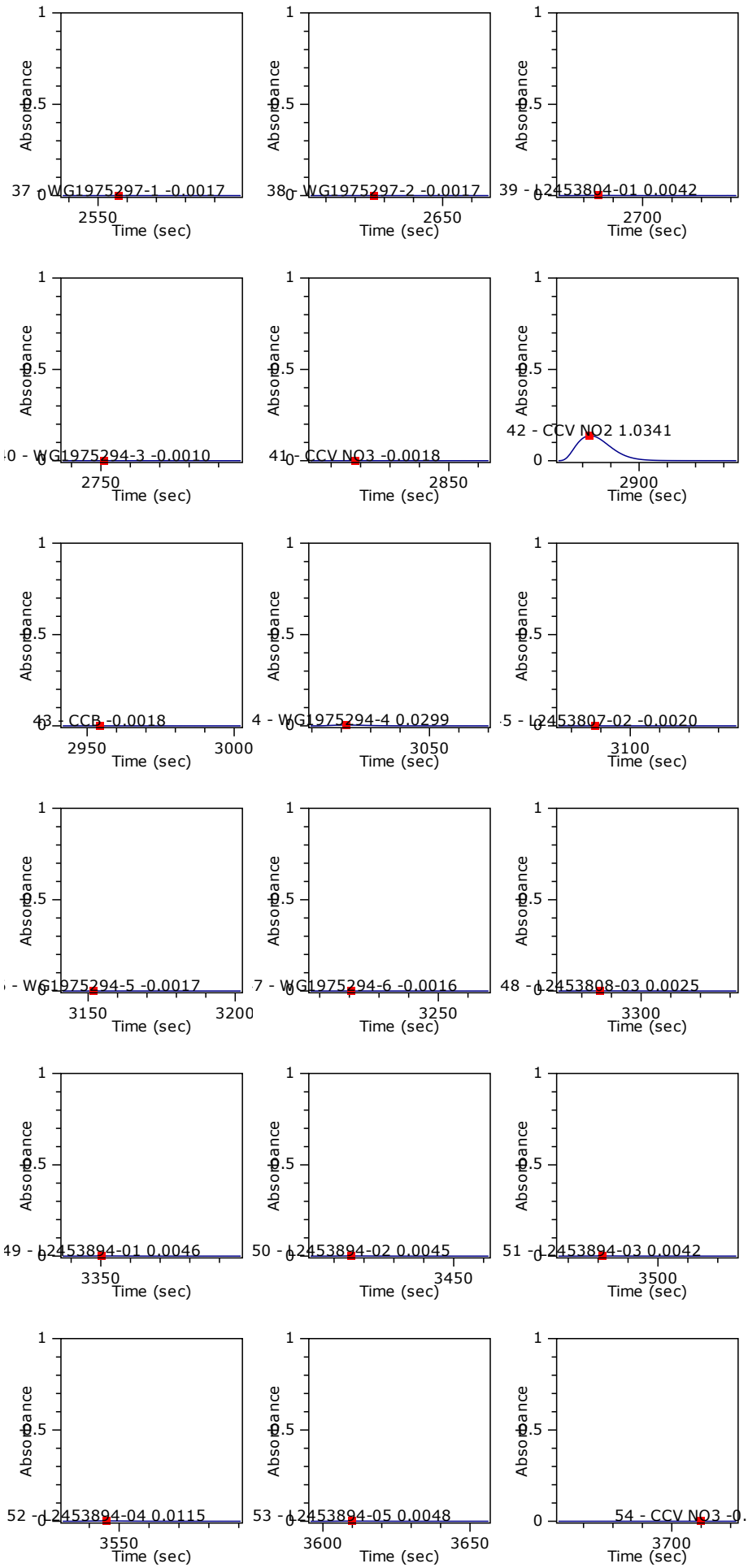

34 - WG1975295-2 4.9144
/G1975296-1 0.0000
36 - WG1975296-2 4.9141
/G1975297-1 0.0002
38 - WG1975297-2 4.9110
39 - L2453804-01 1.2010
40 - WG1975294-3 1.1985
41 - CCV NO3 1.0182
42 - CCV NO2 1.0276
43 - CCB 0.0014
44 - WG1975294-4 5.1828
45 - L2453807-02 2.1690
46 - WG1975294-5 2.1730
47 - WG1975294-6 6.1028
48 - L2453808-03 0.0092
49 - L2453894-01 0.0458
50 - L2453894-02 5.8512
51 - L2453894-03 2.3506
Absorbance
Time (sec)

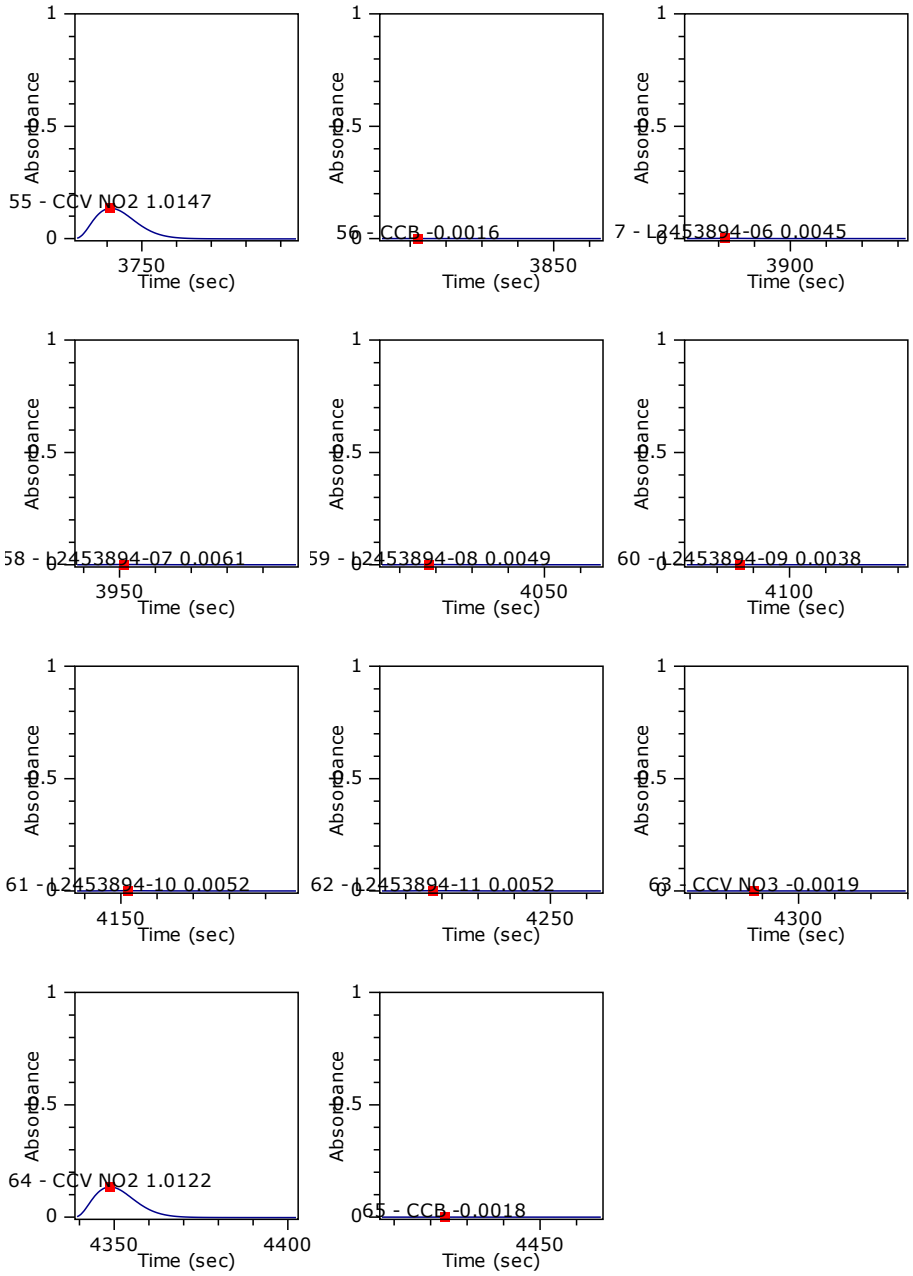


Channel: 2-NO2


1 - Stabil -0.0018
2 - NOx 8.0ppm -0.0020
3 - NOx 4.0ppm -0.0017
4 - NOx 1.0ppm
5 - NOx 0.4ppm -0.001
6 - NOx 0.2ppm -0.0021
7 - NOx 0.1ppm
8 - NOx 0.0ppm -
9 - Nitrite 8.0ppm 7.4795
10 - Nitrite 4.0ppm 4.0610
11 - Nitrite 1.0ppm 1.0251
12 - Nitrite 0.4ppm 0.4161
13 - Nitrite 0.1ppm 0.1010
14 - Nitrite 0.05ppm 0.0495
15 - Nitrite 0.0ppm -0.00
16 - CCV NO3 -0.0018
17 - CCV NO2 1.0248
18 - CCB -0.0019
Absorbance
Time (sec)


19 - ICV NO3 5.0 -0.0018
20 - ICV NO2 5.0 4.8500
21 - ICV NO3 0.5 -0.0008
22 - ICV NO2 0.5 0.4953
23 - ICB -0.0016
24 - BLANK NO3 -0.00
25 - LCS NO3 -0.0018
26 - BLANK NO2 -0.0019
27 - LCS NO2 4.8271
28 - CCV NO3 -0.0012
29 - CCV NO2 1.0237
30 - CCB -0.0015
- WG1975294-1 -0.0017
32 - WG1975294-2 -0.0015
33 - WG1975295-1 -0.0019
- WG1975295-2 -0.0016
35 - WG1975296-1 -0.0017
36 - WG1975296-2 -0.0018
Absorbance
Time (sec)


37 - WG1975297-1 -0.0017
38 - WG1975297-2 -0.0017
39 - L2453804-01 0.0042
40 - WG1975294-3 -0.0010
41 - CCV NO3 -0.0018
42 - CCV NO2 1.0341
43 - CCB -0.0018
44 - WG1975294-4 0.0299
45 - L2453807-02 -0.0020
47 - WG1975294-5 -0.0017
47 - WG1975294-6 -0.0016
48 - L2453808-03 0.0025
49 - L2453894-01 0.0046
50 - L2453894-02 0.0045
51 - L2453894-03 0.0042
52 - L2453894-04 0.0115
53 - L2453894-05 0.0048
54 - CCV NO3 -0.
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-24T03:13:52

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.
```

```
FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

   FIAlab1 Injection Valve Sample Inject
   Autosampler Probe Up
   Delay (sec) 5
   Autosampler Position (#) Rinse
   FIAlab2 Injection Valve Sample Inject

   Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

   Autosampler Probe Up

   Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

   Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

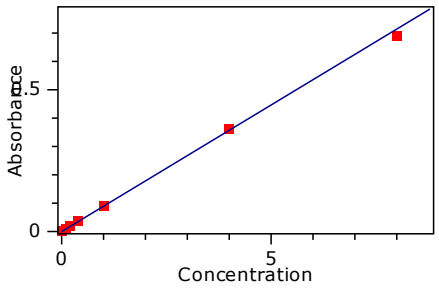
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-24 08:32:10
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-24-083028.dat

Dataset Notes:

Analyst	

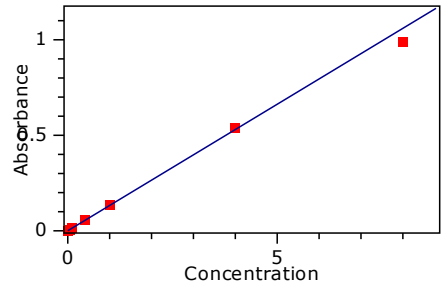
Dataset Notes Table Location: C:\FIAlab\FIAlab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00010
B: 0.08927
R^2: 0.99950
RSE(%): 2.27501
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.68930	8.00000	7.72280	3.46	N/A
10002	NOx 4.0ppm	0.36120	4.00000	4.04740	1.19	N/A
10003	NOx 1.0ppm	0.08960	1.00000	1.00470	0.47	N/A
10004	NOx 0.4ppm	0.03640	0.40000	0.40850	2.12	N/A
10005	NOx 0.2ppm	0.01800	0.20000	0.20240	1.18	N/A
10006	NOx 0.1ppm	0.00870	0.10000	0.09890	1.08	N/A
10007	NOx 0.0ppm	0.00010	0.00000	0.00240	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00031
B: 0.13245
R^2: 0.99841
RSE(%): 4.16024
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.99100	8.00000	7.47950	6.51	N/A
10002	Nitrite 4.0ppm	0.53820	4.00000	4.06100	1.53	N/A
10003	Nitrite 1.0ppm	0.13610	1.00000	1.02510	2.51	N/A
10004	Nitrite 0.4ppm	0.05540	0.40000	0.41610	4.02	N/A
10005	Nitrite 0.1ppm	0.01370	0.10000	0.10100	0.98	N/A
10006	Nitrite 0.05ppm	0.00690	0.05000	0.04950	1.08	N/A
10007	Nitrite 0.0ppm	0.00010	0.00000	-0.00160	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	0.0024		2024-09-24T06:18:24
CCV NO3	2	QC	1	0.0884	1	1	1	0.9917		2024-09-24T06:19:42
CCV NO2	3	QC	?	0.0910	1	1	1	1.0210		2024-09-24T06:20:47
CCB	4	QC	0	0.0000	1	1	1	0.0011		2024-09-24T06:21:31

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453904-01	5	Unknown	?	0.0013	1	1	1	0.0160		2024-09-24T06:23:04
L2454505-02	6	Unknown	?	0.3695	1	1	1	4.1408		2024-09-24T06:24:11
L2454580-01	7	Unknown	?	0.0014	1	1	1	0.0172		2024-09-24T06:25:16
L2454580-02	8	Unknown	?	0.6420	1	1	1	7.1932		2024-09-24T06:26:22
L2454272-01	9	Unknown	?	0.0043	1	1	1	0.0493		2024-09-24T06:27:28
WG1975295-3	10	Unknown	?	0.0055	1	1	1	0.0623		2024-09-24T06:28:32
WG1975295-4	11	Unknown	?	0.3633	1	1	1	4.0708		2024-09-24T06:29:37
L2454272-02	12	Unknown	?	-0.0001	1	1	1	-0.0005		2024-09-24T06:30:13
L2454272-04	13	Unknown	?	0.0010	1	1	1	0.0119		2024-09-24T06:31:46
L2454272-05	14	Unknown	?	0.0015	1	1	1	0.0178		2024-09-24T06:32:52
CCV NO3	15	QC	1	0.0882	1	1	1	0.9897		2024-09-24T06:33:58
CCV NO2	16	QC	?	0.0892	1	1	1	1.0003		2024-09-24T06:35:03
CCB	17	QC	0	0.0000	1	1	1	0.0008		2024-09-24T06:36:10
L2454272-06	18	Unknown	?	0.0021	1	1	1	0.0246		2024-09-24T06:37:21
L2454272-07	19	Unknown	?	0.0013	1	1	1	0.0157		2024-09-24T06:38:28
L2454272-08	20	Unknown	?	0.0784	1	1	1	0.8793		2024-09-24T06:39:35
L2454272-09	21	Unknown	?	0.0141	1	1	1	0.1594		2024-09-24T06:40:42
L2454272-10	22	Unknown	?	0.0012	1	1	1	0.0142		2024-09-24T06:41:48
L2452183-04	23	Unknown	?	0.0029	1	1	1	0.0339		2024-09-24T06:42:55
L2452183-05	24	Unknown	?	0.0042	1	1	1	0.0485		2024-09-24T06:44:00
L2452183-06	25	Unknown	?	0.0012	1	1	1	0.0144		2024-09-24T06:45:06
L2453498-01	26	Unknown	?	0.0667	1	1	1	0.7478		2024-09-24T06:46:11
L2453498-02	27	Unknown	?	0.0622	1	1	1	0.6982		2024-09-24T06:47:16
CCV NO3	28	QC	1	0.0869	1	1	1	0.9748		2024-09-24T06:48:21
CCV NO2	29	QC	?	0.0884	1	1	1	0.9920		2024-09-24T06:49:26
CCB	30	QC	0	0.0000	1	1	1	0.0010		2024-09-24T06:50:10
L2453498-03	31	Unknown	?	0.0612	1	1	1	0.6871		2024-09-24T06:51:42
L2453498-04	32	Unknown	?	0.0579	1	1	1	0.6496		2024-09-24T06:52:48
L2453498-05	33	Unknown	?	0.0527	1	1	1	0.5911		2024-09-24T06:53:52
L2453498-06	34	Unknown	?	0.0432	1	1	1	0.4850		2024-09-24T06:54:57
L2453498-07	35	Unknown	?	0.0418	1	1	1	0.4691		2024-09-24T06:56:02
L2453657-01	36	Unknown	?	1.2958	1	1	1	14.5175	OVR	2024-09-24T06:57:43
L2453720-01	37	Unknown	?	-0.0026	1	1	1	-0.0276		2024-09-24T06:57:50

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453720-02	38	Unknown	?	0.2280	1	1	1	2.5557		2024-09-24T06:59:23
WG1975296-3	39	Unknown	?	0.3409	1	1	1	3.8200		2024-09-24T07:00:30
WG1975296-4	40	Unknown	?	0.6750	1	1	1	7.5623		2024-09-24T07:01:36
CCV NO3	41	QC	1	0.0885	1	1	1	0.9921		2024-09-24T07:02:42
CCV NO2	42	QC	?	0.0913	1	1	1	1.0237		2024-09-24T07:03:47
CCB	43	QC	0	0.0006	1	1	1	0.0077		2024-09-24T07:05:03
L2453720-03	44	Unknown	?	0.1088	1	1	1	1.2198		2024-09-24T07:06:07
L2453720-04	45	Unknown	?	0.0012	1	1	1	0.0148		2024-09-24T07:07:15
L2453720-06	46	Unknown	?	0.5916	1	1	1	6.6279		2024-09-24T07:08:20
L2453720-07	47	Unknown	?	0.0783	1	1	1	0.8780		2024-09-24T07:09:26
L2453720-08	48	Unknown	?	0.1912	1	1	1	2.1435		2024-09-24T07:10:31
L2453720-09	49	Unknown	?	0.4454	1	1	1	4.9911		2024-09-24T07:11:36
L2454352-01	50	Unknown	?	0.3072	1	1	1	3.4428		2024-09-24T07:12:41
CCV NO3	51	QC	1	0.0894	1	1	1	1.0023		2024-09-24T07:13:46
CCV NO2	52	QC	?	0.0905	1	1	1	1.0155		2024-09-24T07:14:51
CCB	53	QC	0	0.0002	1	1	1	0.0035		2024-09-24T07:16:08

Channel: 2-NO2

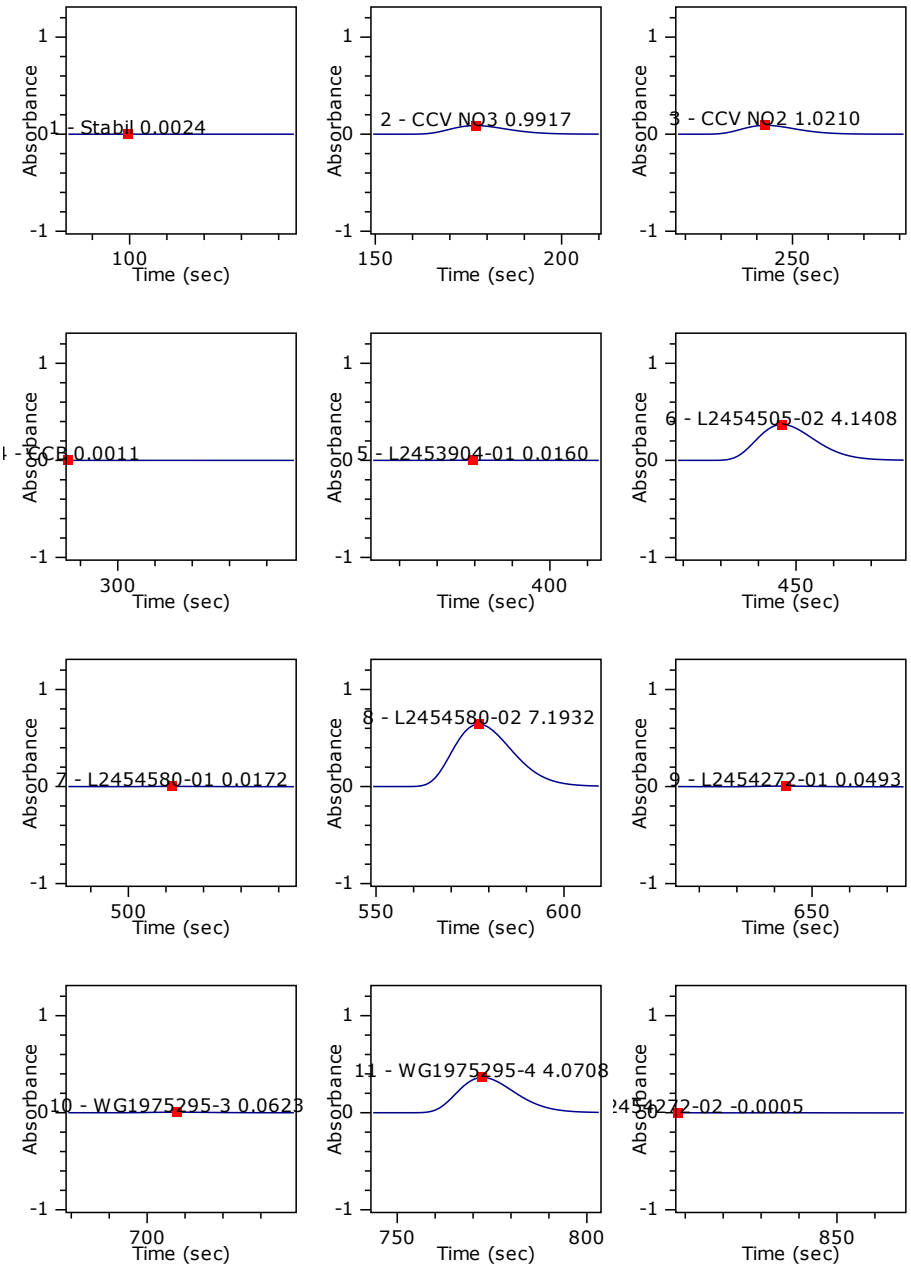
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0015		2024-09-24T06:18:15
CCV NO3	2	QC	?	0.0000	1	1	1	-0.0020		2024-09-24T06:19:31
CCV NO2	3	QC	1	0.1378	1	1	1	1.0383		2024-09-24T06:20:33
CCB	4	QC	0	0.0000	1	1	1	-0.0021		2024-09-24T06:21:51
L2453904-01	5	Unknown	?	0.0011	1	1	1	0.0062		2024-09-24T06:22:51
L2454505-02	6	Unknown	?	0.0040	1	1	1	0.0280		2024-09-24T06:23:57
L2454580-01	7	Unknown	?	0.0025	1	1	1	0.0168		2024-09-24T06:25:02
L2454580-02	8	Unknown	?	0.1305	1	1	1	0.9829		2024-09-24T06:26:08
L2454272-01	9	Unknown	?	0.0008	1	1	1	0.0035		2024-09-24T06:27:13
WG1975295-3	10	Unknown	?	0.0002	1	1	1	-0.0011		2024-09-24T06:28:17
WG1975295-4	11	Unknown	?	0.0002	1	1	1	-0.0008		2024-09-24T06:29:24
L2454272-02	12	Unknown	?	0.0007	1	1	1	0.0030		2024-09-24T06:30:26
L2454272-04	13	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:31:32
L2454272-05	14	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:32:38
CCV NO3	15	QC	?	0.0000	1	1	1	-0.0020		2024-09-

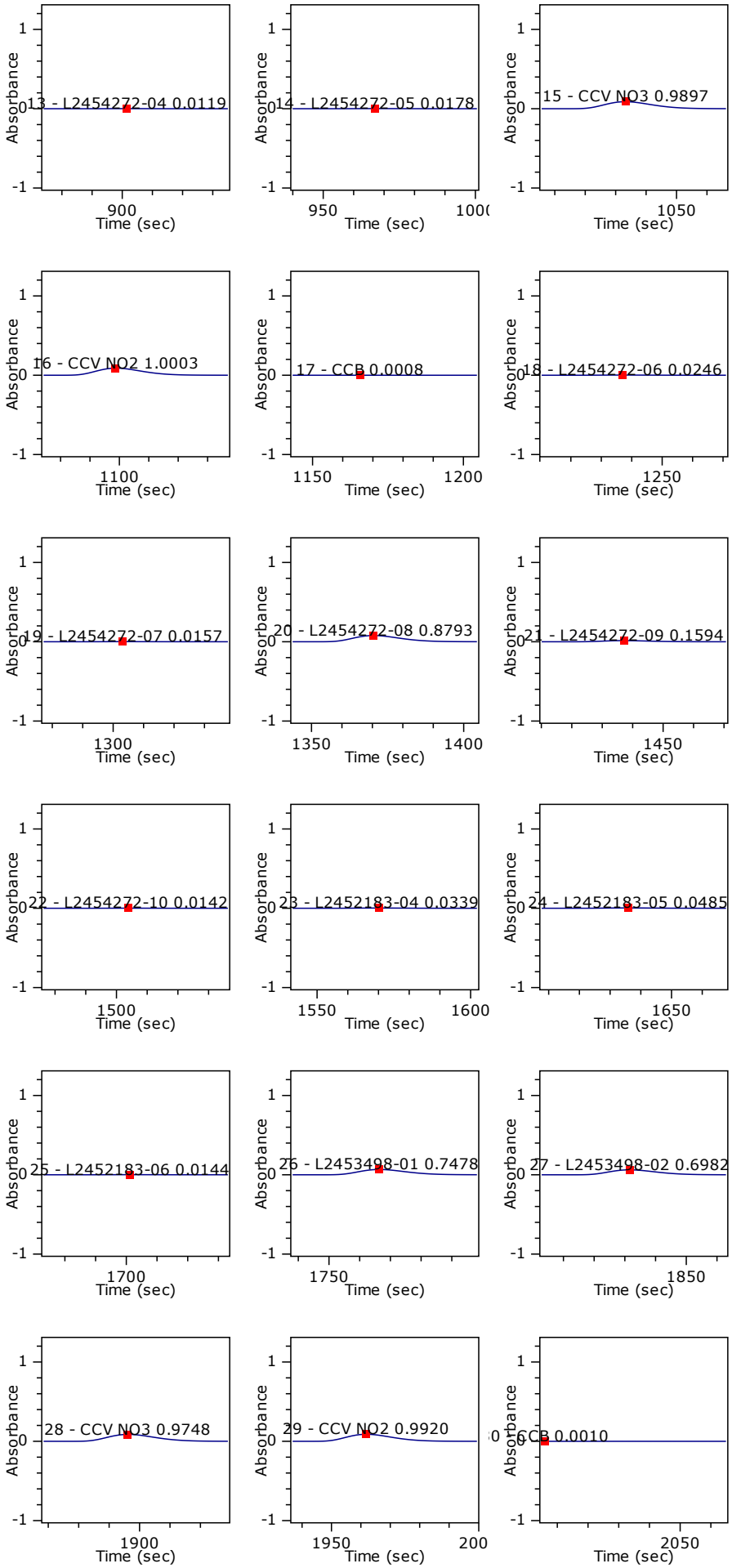
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
										24T06:33:45
CCV NO2	16	QC	1	0.1375	1	1	1	1.0354		2024-09-24T06:34:50
CCB	17	QC	0	0.0001	1	1	1	-0.0019		2024-09-24T06:35:59
L2454272-06	18	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:37:10
L2454272-07	19	Unknown	?	0.0007	1	1	1	0.0029		2024-09-24T06:38:15
L2454272-08	20	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T06:39:19
L2454272-09	21	Unknown	?	0.0001	1	1	1	-0.0018		2024-09-24T06:40:56
L2454272-10	22	Unknown	?	0.0008	1	1	1	0.0039		2024-09-24T06:41:35
L2452183-04	23	Unknown	?	0.0030	1	1	1	0.0204		2024-09-24T06:42:41
L2452183-05	24	Unknown	?	0.0043	1	1	1	0.0298		2024-09-24T06:43:46
L2452183-06	25	Unknown	?	0.0014	1	1	1	0.0083		2024-09-24T06:44:52
L2453498-01	26	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T06:45:57
L2453498-02	27	Unknown	?	0.0009	1	1	1	0.0041		2024-09-24T06:47:03
CCV NO3	28	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T06:48:05
CCV NO2	29	QC	1	0.1373	1	1	1	1.0345		2024-09-24T06:49:13
CCB	30	QC	0	0.0000	1	1	1	-0.0020		2024-09-24T06:50:29
L2453498-03	31	Unknown	?	0.0008	1	1	1	0.0039		2024-09-24T06:51:28
L2453498-04	32	Unknown	?	0.0008	1	1	1	0.0039		2024-09-24T06:52:32
L2453498-05	33	Unknown	?	0.0008	1	1	1	0.0037		2024-09-24T06:53:38
L2453498-06	34	Unknown	?	0.0008	1	1	1	0.0036		2024-09-24T06:54:42
L2453498-07	35	Unknown	?	0.0008	1	1	1	0.0035		2024-09-24T06:55:50
L2453657-01	36	Unknown	?	1.3623	1	1	1	10.2823	OVR	2024-09-24T06:56:57
L2453720-01	37	Unknown	?	0.0010	1	1	1	0.0049		2024-09-24T06:58:04
L2453720-02	38	Unknown	?	0.0009	1	1	1	0.0044		2024-09-24T06:59:10
WG1975296-3	39	Unknown	?	0.0002	1	1	1	-0.0011		2024-09-24T07:00:15
WG1975296-4	40	Unknown	?	0.0002	1	1	1	-0.0008		2024-09-24T07:01:22
CCV NO3	41	QC	?	0.0001	1	1	1	-0.0015		2024-09-24T07:02:40
CCV NO2	42	QC	1	0.1368	1	1	1	1.0307		2024-09-24T07:03:34
CCB	43	QC	0	0.0002	1	1	1	-0.0006		2024-09-24T07:04:58
L2453720-03	44	Unknown	?	0.0008	1	1	1	0.0037		2024-09-24T07:05:54
L2453720-04	45	Unknown	?	0.0009	1	1	1	0.0043		2024-09-24T07:07:01
L2453720-06	46	Unknown	?	0.0009	1	1	1	0.0044		2024-09-24T07:08:07
L2453720-07	47	Unknown	?	0.0009	1	1	1	0.0042		2024-09-24T07:09:12

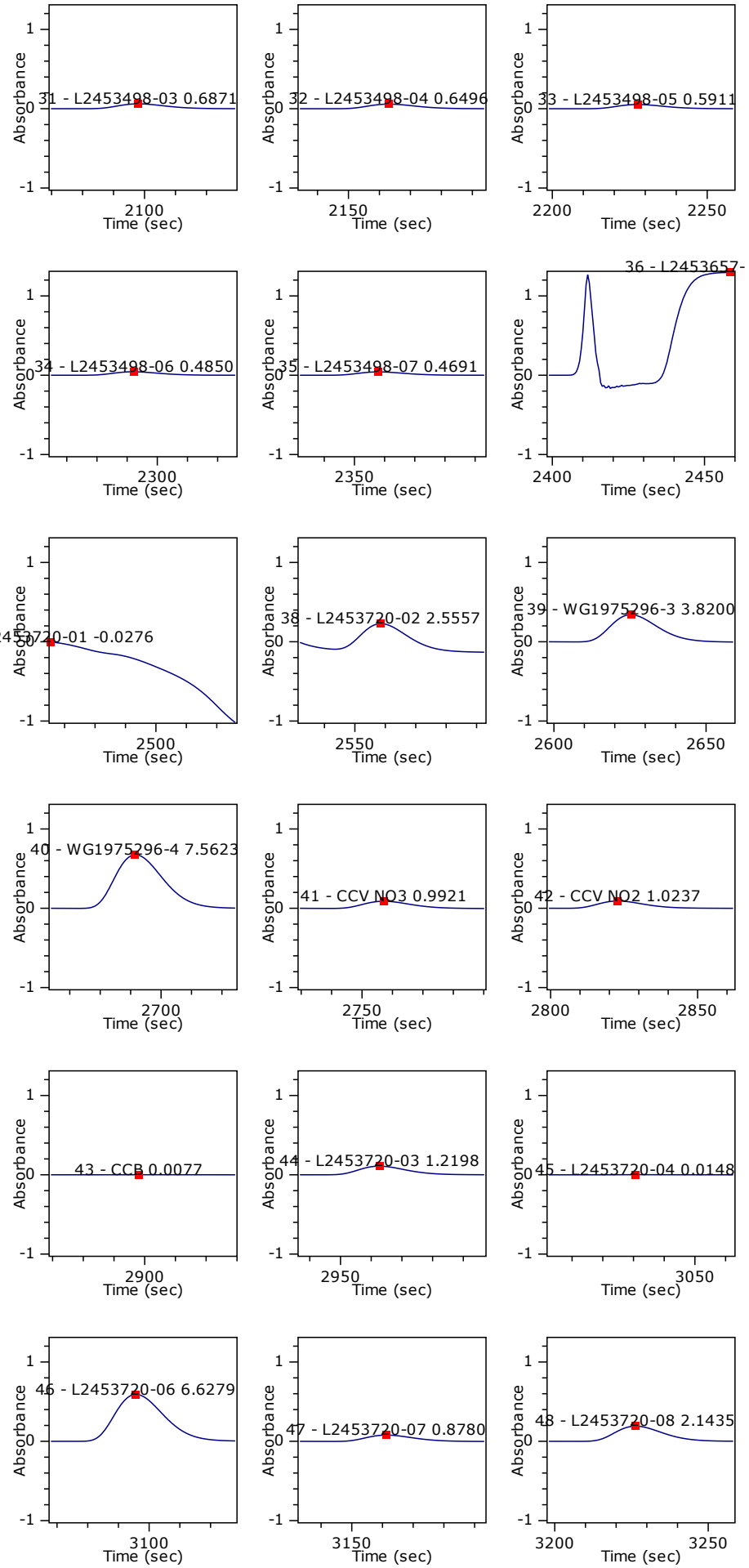
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453720-08	48	Unknown	?	0.0009	1	1	1	0.0043		2024-09-24T07:10:17
L2453720-09	49	Unknown	?	0.0007	1	1	1	0.0030		2024-09-24T07:11:22
L2454352-01	50	Unknown	?	0.0007	1	1	1	0.0033		2024-09-24T07:12:27
CCV NO3	51	QC	?	0.0000	1	1	1	-0.0023		2024-09-24T07:13:36
CCV NO2	52	QC	1	0.1374	1	1	1	1.0348		2024-09-24T07:14:38
CCB	53	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T07:15:51

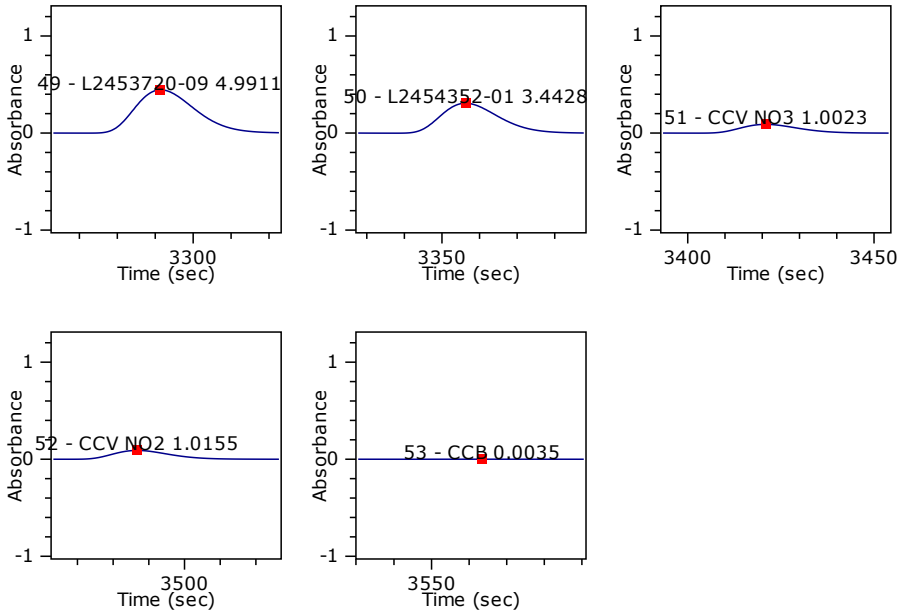
Peaks:

Channel: 1-NOx

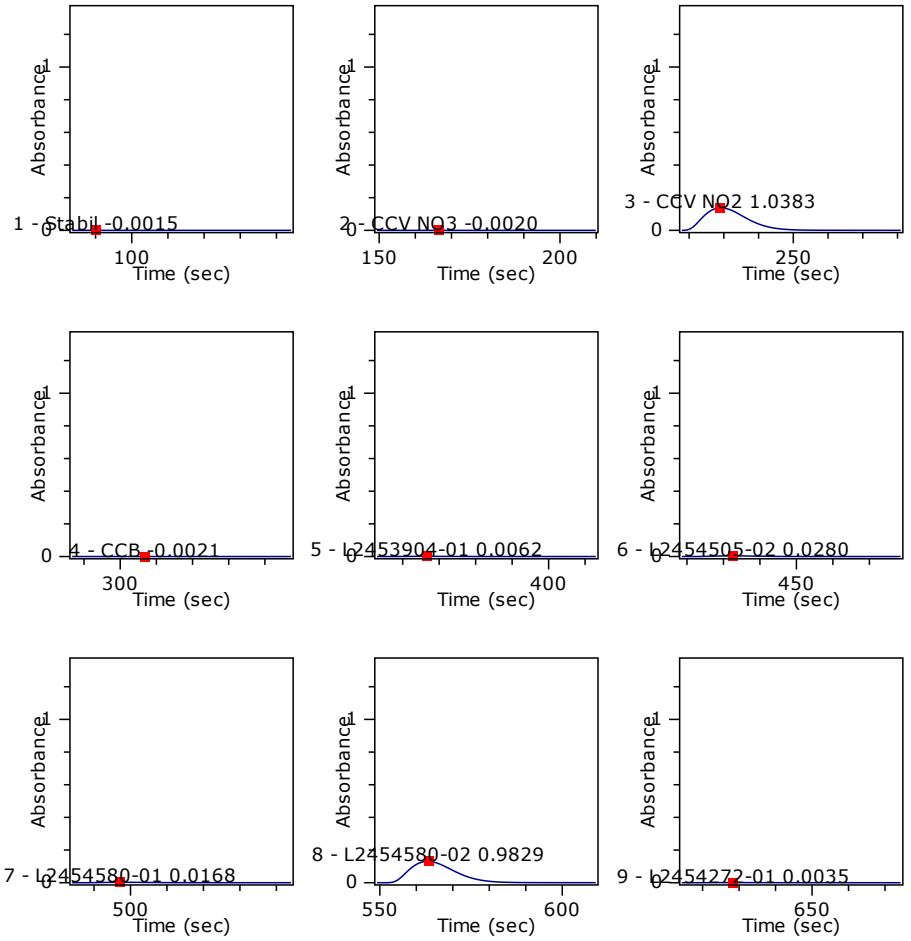


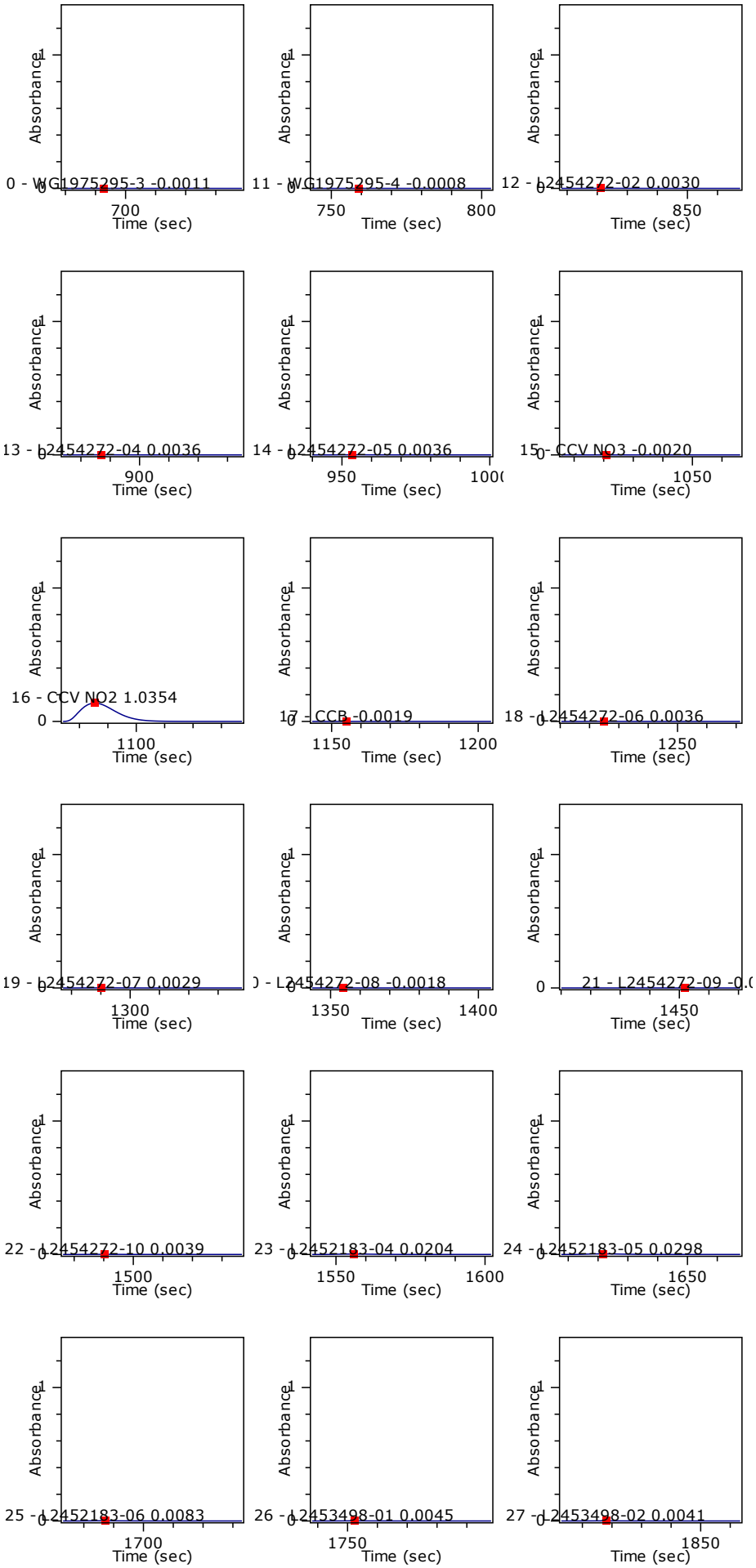

13 - L2454272-04 0.0119
14 - L2454272-05 0.0178
15 - CCV NO3 0.9897
16 - CCV NO2 1.0003
17 - CCB 0.0008
18 - L2454272-06 0.0246
19 - L2454272-07 0.0157
20 - L2454272-08 0.8793
21 - L2454272-09 0.1594
22 - L2454272-10 0.0142
23 - L2452183-04 0.0339
24 - L2452183-05 0.0485
25 - L2452183-06 0.0144
26 - L2453498-01 0.7478
27 - L2453498-02 0.6982
28 - CCV NO3 0.9748
29 - CCV NO2 0.9920
CCB 0.0010
Absorbance
Time (sec)

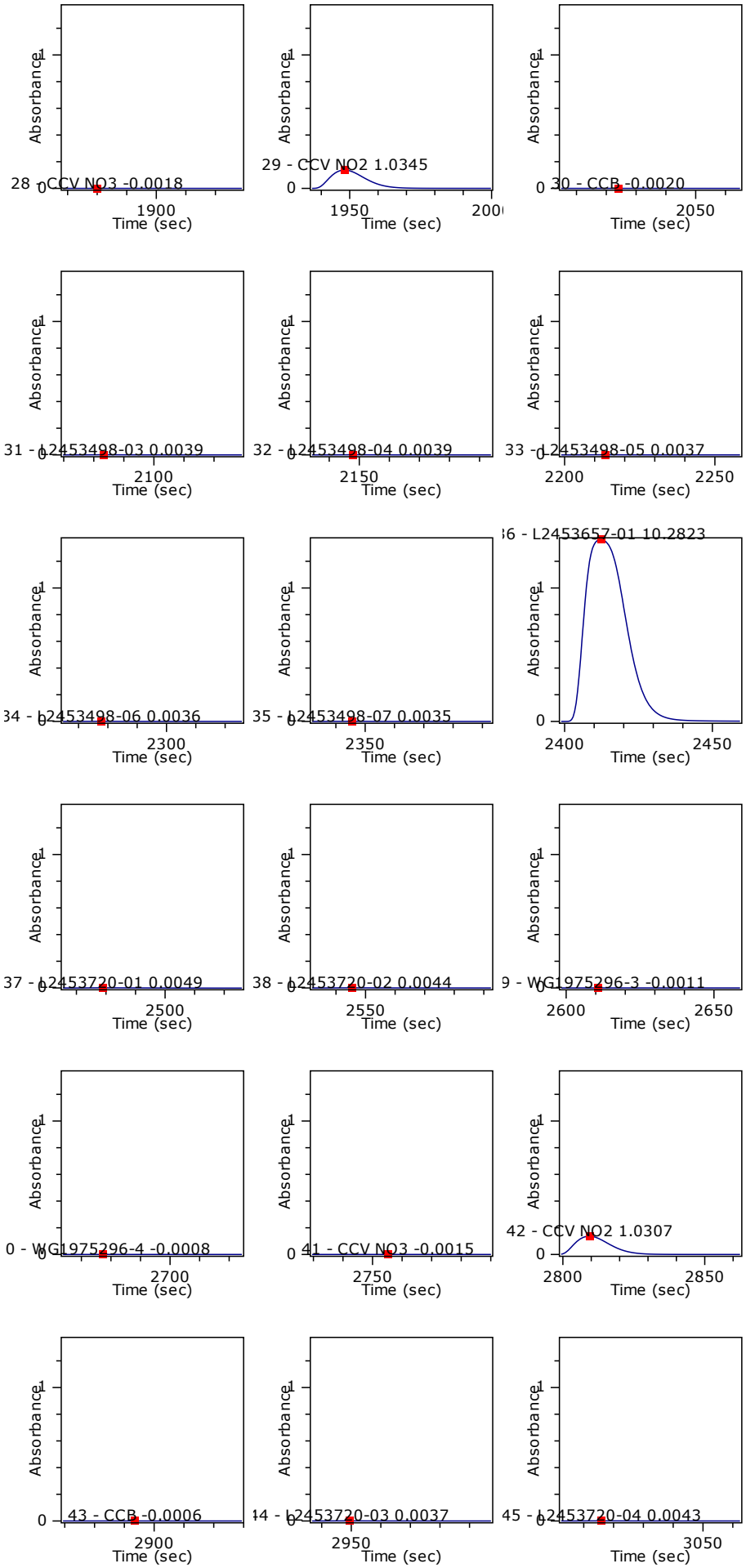

31 - L2453498-03 0.6871
32 - L2453498-04 0.6496
33 - L2453498-05 0.5911
34 - L2453498-06 0.4850
35 - L2453498-07 0.4691
36 - L2453657-
2453720-01 -0.0276
38 - L2453720-02 2.5557
39 - WG1975296-3 3.8200
40 - WG1975296-4 7.5623
41 - CCV NO3 0.9921
42 - CCV NO2 1.0237
43 - CCB 0.0077
44 - L2453720-03 1.2198
45 - L2453720-04 0.0148
46 - L2453720-06 6.6279
47 - L2453720-07 0.8780
48 - L2453720-08 2.1435
Absorbance
Time (sec)

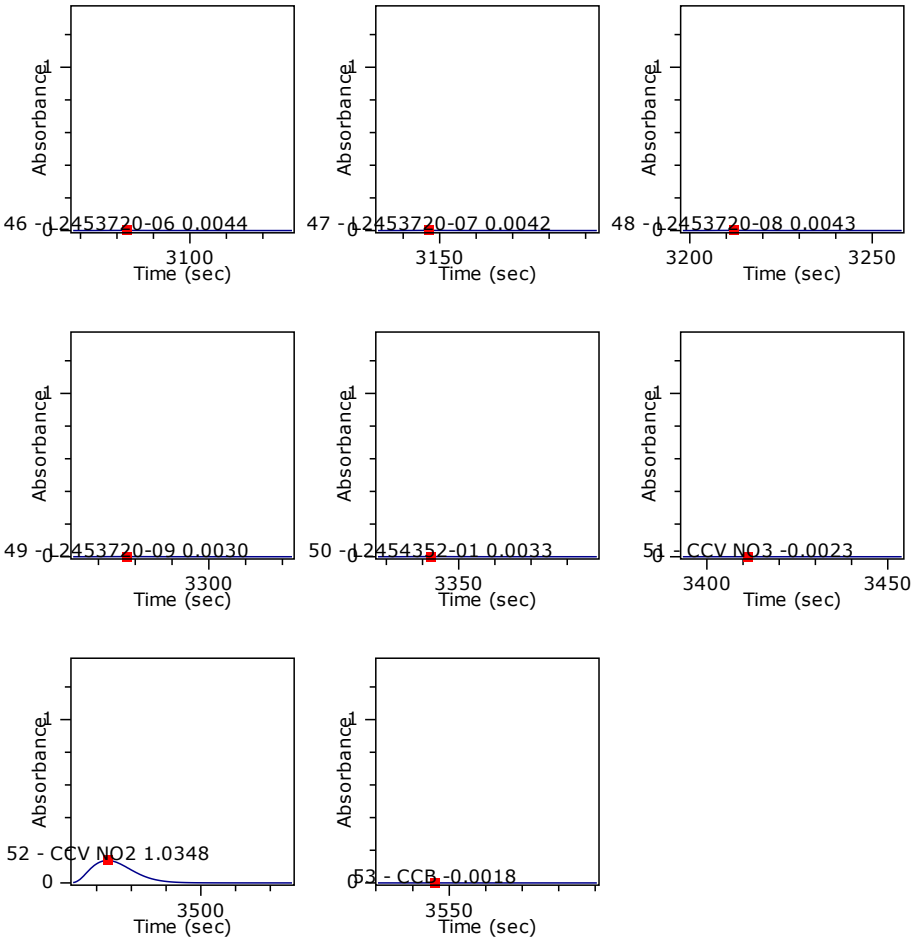


Channel: 2-NO2




0 - WG1975295-3 -0.0011
11 - WG1975295-4 -0.0008
12 - L2454272-02 0.0030
13 - L2454272-04 0.0036
14 - L2454272-05 0.0036
15 - CCV NO3 -0.0020
16 - CCV NO2 1.0354
17 - CCB -0.0019
18 - L2454272-06 0.0036
19 - L2454272-07 0.0029
) - L2454272-08 -0.0018
21 - L2454272-09 -0.(
22 - L2454272-10 0.0039
23 - L2452183-04 0.0204
24 - L2452183-05 0.0298
25 - L2452183-06 0.0083
26 - L2453498-01 0.0045
27 - L2453498-02 0.0041
Absorbance
Time (sec)


Absorbance
Time (sec)
28 - CCV NO3 -0.0018
29 - CCV NO2 1.0345
30 - CCB -0.0020
31 - L2453498-03 0.0039
32 - L2453498-04 0.0039
33 - L2453498-05 0.0037
34 - L2453498-06 0.0036
35 - L2453498-07 0.0035
36 - L2453657-01 10.2823
37 - L2453720-01 0.0049
38 - L2453720-02 0.0044
39 - WG1975296-3 -0.0011
40 - WG1975296-4 -0.0008
41 - CCV NO3 -0.0015
42 - CCV NO2 1.0307
43 - CCB -0.0006
44 - L2453720-03 0.0037
45 - L2453720-04 0.0043



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False

Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-24T06:16:45

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
```

```
    Delay (sec) 1
    Next Sample
    Autosampler Probe Force Down

    Spectrometer Reference Scan
    Spectrometer Absorbance Scanning

    Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

    FIAlab Injection Valve Sample Load

    Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

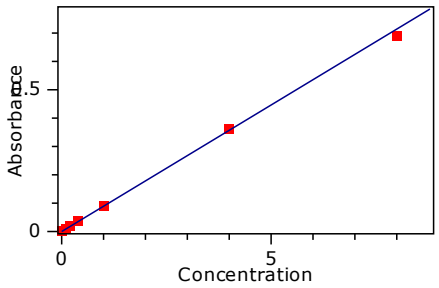
Graphical report generated by FIAsoft v3.1.10
Report generated on 2024-09-24 10:39:06
Data file (.dat): C:\FIAlab\Autosave Data\2024-09-24-103842.dat

Dataset Notes:

Analyst	

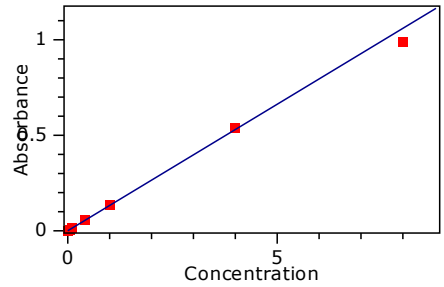
Dataset Notes Table Location:

Calibrations:



Channel: 1-NOx
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: -0.00010
B: 0.08927
R^2: 0.99950
RSE(%): 2.27501
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.68930	8.00000	7.72280	3.46	N/A
10002	NOx 4.0ppm	0.36120	4.00000	4.04740	1.19	N/A
10003	NOx 1.0ppm	0.08960	1.00000	1.00470	0.47	N/A
10004	NOx 0.4ppm	0.03640	0.40000	0.40850	2.12	N/A
10005	NOx 0.2ppm	0.01800	0.20000	0.20240	1.18	N/A
10006	NOx 0.1ppm	0.00870	0.10000	0.09890	1.08	N/A
10007	NOx 0.0ppm	0.00010	0.00000	0.00240	NA	N/A



Channel: 2-NO2
Fit_Order: 1
Weighting: 1/response
Standard relation
Coefficients:
A: 0.00031
B: 0.13245
R^2: 0.99841
RSE(%): 4.16024
% Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.99100	8.00000	7.47950	6.51	N/A
10002	Nitrite 4.0ppm	0.53820	4.00000	4.06100	1.53	N/A
10003	Nitrite 1.0ppm	0.13610	1.00000	1.02510	2.51	N/A
10004	Nitrite 0.4ppm	0.05540	0.40000	0.41610	4.02	N/A
10005	Nitrite 0.1ppm	0.01370	0.10000	0.10100	0.98	N/A
10006	Nitrite 0.05ppm	0.00690	0.05000	0.04950	1.08	N/A
10007	Nitrite 0.0ppm	0.00010	0.00000	-0.00160	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0002	1	1	1	0.0029		2024-09-24T09:18:23
CCV NO3	2	QC	1	0.0870	1	1	1	0.9758		2024-09-24T09:19:32
CCV NO2	3	QC	?	0.0882	1	1	1	0.9897		2024-09-24T09:20:39
CCB	4	QC	0	0.0000	1	1	1	0.0015		2024-09-24T09:21:47

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2453720-01	5	Unknown	?	0.1062	1	1	1	1.1910		2024-09-24T09:22:56
L2453720-02	6	Unknown	?	0.3351	1	1	1	3.7552		2024-09-24T09:24:03
WG1975296-3	7	Unknown	?	0.3358	1	1	1	3.7625		2024-09-24T09:25:10
L2454059-01	8	Unknown	?	0.4496	1	1	1	5.0372		2024-09-24T09:26:15
WG1975297-3	9	Unknown	?	0.4514	1	1	1	5.0582		2024-09-24T09:27:20
WG1975297-4; 2 UP TO 10	10	Unknown	?	0.1540	5	1	1	8.6333		2024-09-24T09:28:27
L2454059-02	11	Unknown	?	0.1981	1	1	1	2.2199		2024-09-24T09:29:35
L2454142-01	12	Unknown	?	0.0022	1	1	1	0.0256		2024-09-24T09:30:42
L2454142-02	13	Unknown	?	0.4131	1	1	1	4.6286		2024-09-24T09:31:49
L2454143-01	14	Unknown	?	0.0021	1	1	1	0.0245		2024-09-24T09:32:56
CCV NO3	15	QC	1	0.0855	1	1	1	0.9585		2024-09-24T09:34:01
CCV NO2	16	QC	?	0.0879	1	1	1	0.9858		2024-09-24T09:35:07
CCB	17	QC	0	0.0001	1	1	1	0.0021		2024-09-24T09:36:15
L2453657-01; 0.5 UP TO 50	18	Unknown	?	0.6480	100	1	1	726.0200		2024-09-24T09:37:27
L2454143-02	19	Unknown	?	0.4463	1	1	1	5.0011		2024-09-24T09:38:35
L2454521-01	20	Unknown	?	0.0122	1	1	1	0.1377		2024-09-24T09:39:41
L2454521-02	21	Unknown	?	0.0483	1	1	1	0.5423		2024-09-24T09:40:48
L2454521-03	22	Unknown	?	0.0148	1	1	1	0.1668		2024-09-24T09:41:53
L2454521-04	23	Unknown	?	0.0053	1	1	1	0.0607		2024-09-24T09:42:59
L2454521-05	24	Unknown	?	0.0105	1	1	1	0.1187		2024-09-24T09:44:04
L2454521-06	25	Unknown	?	0.0083	1	1	1	0.0942		2024-09-24T09:45:09
CCV NO3	26	QC	1	0.0844	1	1	1	0.9471		2024-09-24T09:46:15
CCV NO2	27	QC	?	0.0868	1	1	1	0.9733		2024-09-24T09:47:20
CCB	28	QC	0	0.0000	1	1	1	0.0014		2024-09-24T09:48:26

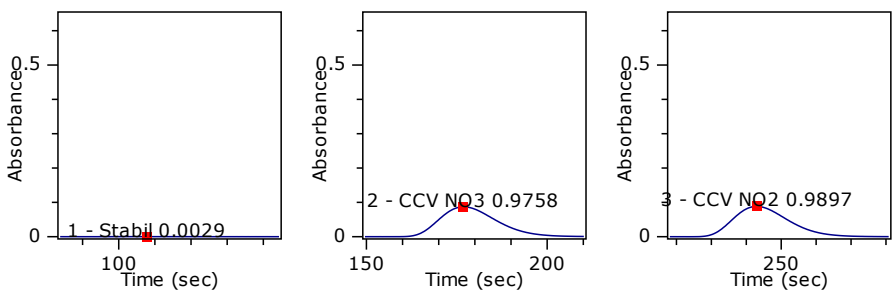
Channel: 2-NO2

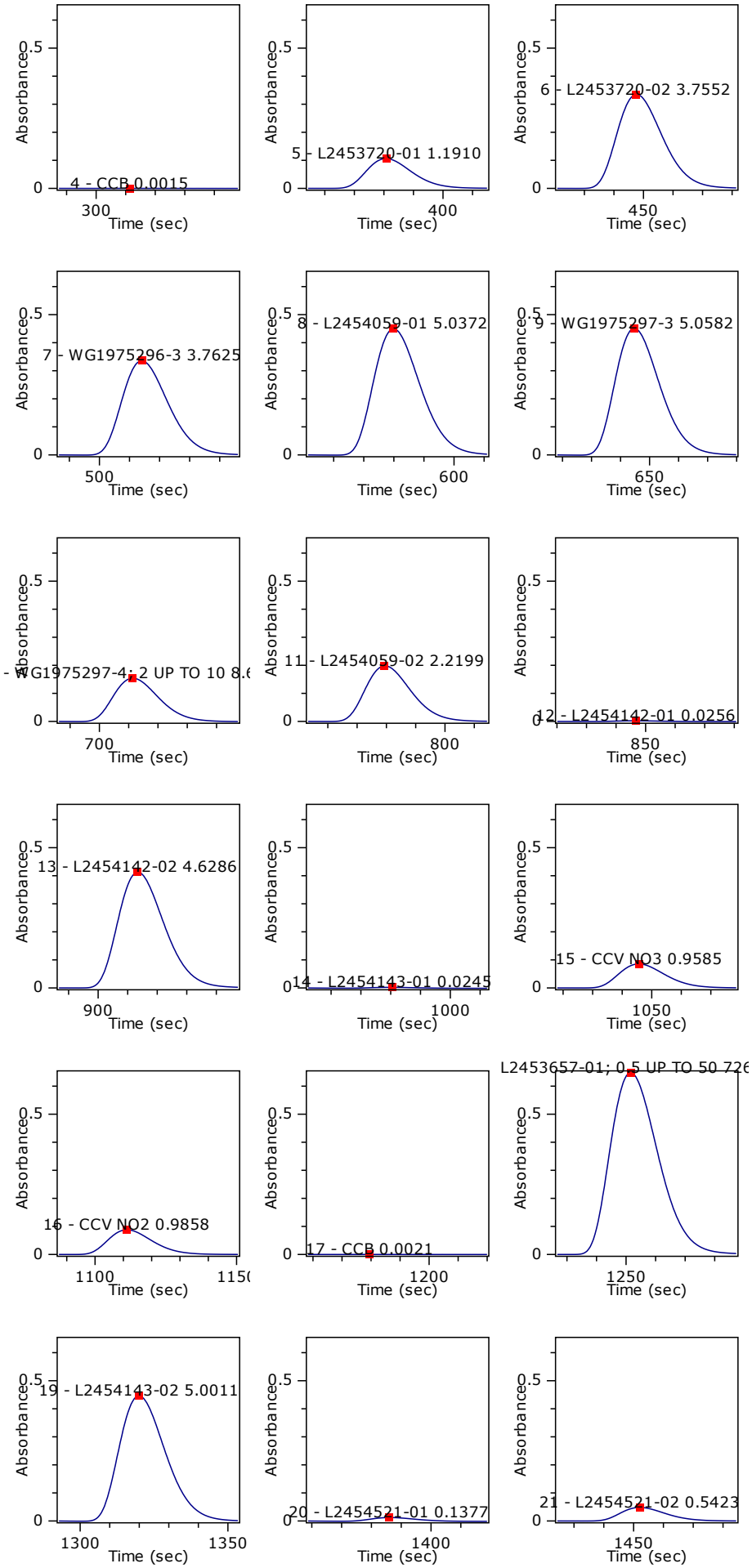
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0000	1	1	1	-0.0020		2024-09-24T09:18:10
CCV NO3	2	QC	?	0.0001	1	1	1	-0.0017		2024-09-24T09:19:23
CCV NO2	3	QC	1	0.1395	1	1	1	1.0509		2024-09-24T09:20:25
CCB	4	QC	0	0.0001	1	1	1	-0.0016		2024-09-24T09:21:35
L2453720-01	5	Unknown	?	0.0007	1	1	1	0.0032		2024-09-24T09:22:42
L2453720-02	6	Unknown	?	0.0008	1	1	1	0.0040		2024-09-24T09:23:50

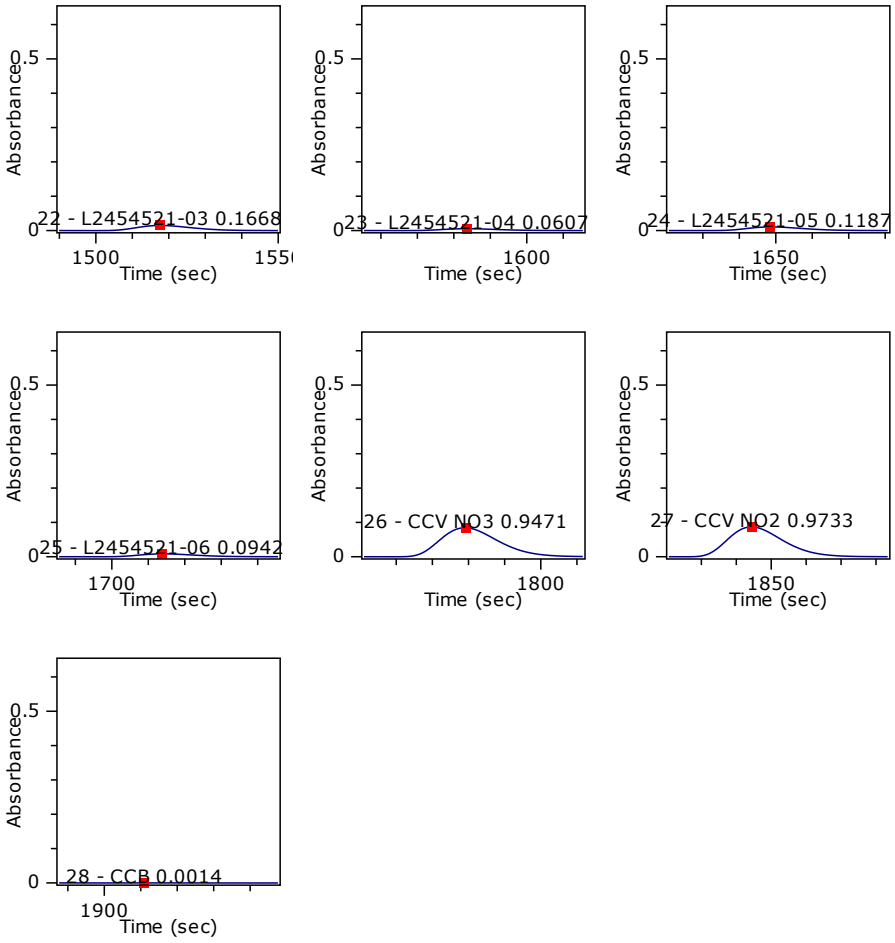
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG1975296-3	7	Unknown	?	0.0001	1	1	1	-0.0014		2024-09-24T09:24:55
L2454059-01	8	Unknown	?	0.0009	1	1	1	0.0046		2024-09-24T09:26:00
WG1975297-3	9	Unknown	?	0.0001	1	1	1	-0.0013		2024-09-24T09:27:08
WG1975297-4; 2 UP TO 10	10	Unknown	?	0.0001	5	1	1	-0.0087		2024-09-24T09:28:13
L2454059-02	11	Unknown	?	0.0007	1	1	1	0.0032		2024-09-24T09:29:23
L2454142-01	12	Unknown	?	0.0021	1	1	1	0.0138		2024-09-24T09:30:29
L2454142-02	13	Unknown	?	0.0011	1	1	1	0.0057		2024-09-24T09:31:36
L2454143-01	14	Unknown	?	0.0018	1	1	1	0.0115		2024-09-24T09:32:41
CCV NO3	15	QC	?	0.0001	1	1	1	-0.0018		2024-09-24T09:33:55
CCV NO2	16	QC	1	0.1380	1	1	1	1.0396		2024-09-24T09:34:53
CCB	17	QC	0	0.0001	1	1	1	-0.0019		2024-09-24T09:36:06
L2453657-01; 0.5 UP TO 50	18	Unknown	?	0.0176	100	1	1	13.0232		2024-09-24T09:37:15
L2454143-02	19	Unknown	?	0.0009	1	1	1	0.0045		2024-09-24T09:38:22
L2454521-01	20	Unknown	?	0.0067	1	1	1	0.0486		2024-09-24T09:39:28
L2454521-02	21	Unknown	?	0.0081	1	1	1	0.0591		2024-09-24T09:40:34
L2454521-03	22	Unknown	?	0.0107	1	1	1	0.0787		2024-09-24T09:41:40
L2454521-04	23	Unknown	?	0.0017	1	1	1	0.0107		2024-09-24T09:42:45
L2454521-05	24	Unknown	?	0.0043	1	1	1	0.0304		2024-09-24T09:43:50
L2454521-06	25	Unknown	?	0.0017	1	1	1	0.0109		2024-09-24T09:44:55
CCV NO3	26	QC	?	0.0000	1	1	1	-0.0020		2024-09-24T09:46:04
CCV NO2	27	QC	1	0.1378	1	1	1	1.0381		2024-09-24T09:47:06
CCB	28	QC	0	0.0001	1	1	1	-0.0018		2024-09-24T09:48:22

Peaks:

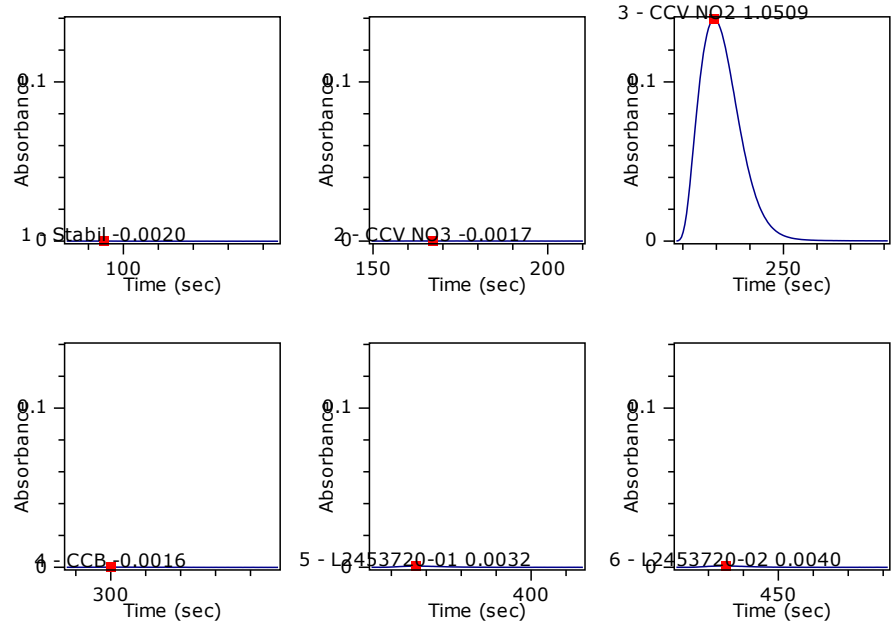
Channel: 1-NOx

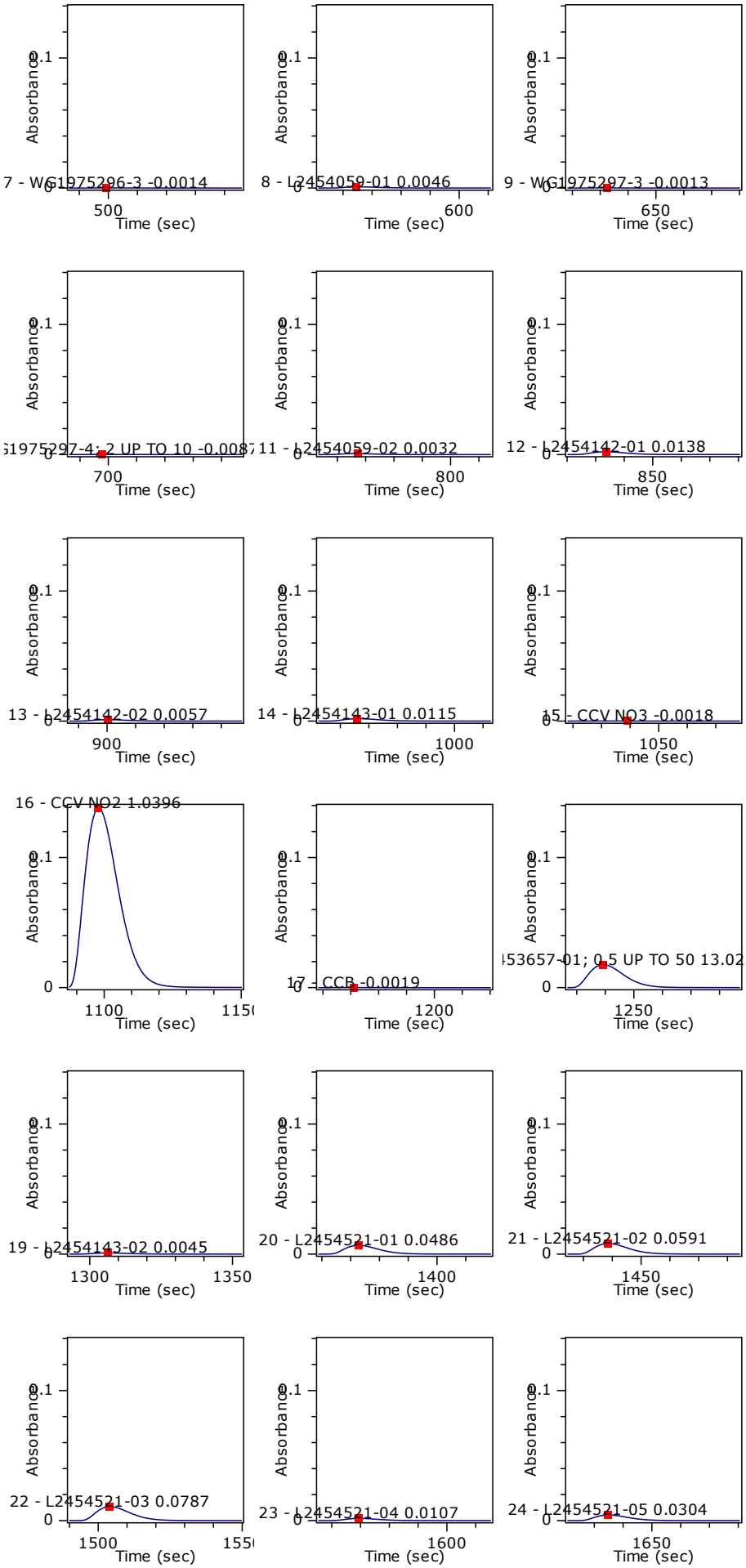


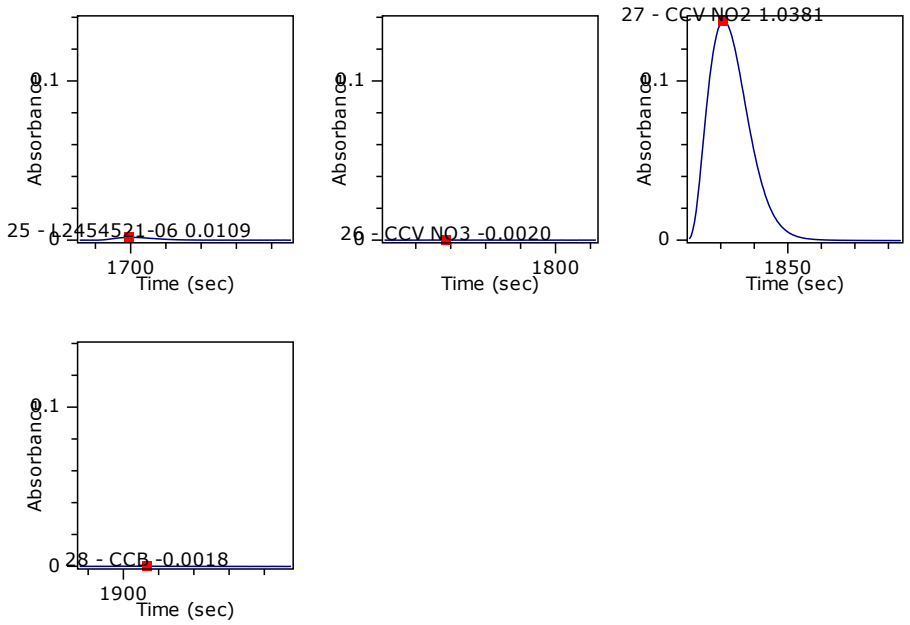

4 - CCB 0.0015
5 - L2453720-01 1.1910
6 - L2453720-02 3.7552
7 - WG1975296-3 3.7625
8 - L2454059-01 5.0372
9 - WG1975297-3 5.0582
- WG1975297-4; 2 UP TO 10 8.6
11 - L2454059-02 2.2199
12 - L2454142-01 0.0256
13 - L2454142-02 4.6286
14 - L2454143-01 0.0245
15 - CCV NO3 0.9585
L2453657-01; 0.5 UP TO 50 726
16 - CCV NO2 0.9858
17 - CCB 0.0021
19 - L2454143-02 5.0011
20 - L2454521-01 0.1377
21 - L2454521-02 0.5423
Absorbance
Time (sec)



Channel: 2-NO2




7 - WG1975296-3 -0.0014
8 - L2454059-01 0.0046
9 - WG1975297-3 -0.0013
G1975297-4; 2 UP TO 10 -0.0087
11 - L2454059-02 0.0032
12 - L2454142-01 0.0138
13 - L2454142-02 0.0057
14 - L2454143-01 0.0115
15 - CCV NO3 -0.0018
16 - CCV NO2 1.0396
17 - CCB -0.0019
53657-01; 0.5 UP TO 50 13.023
19 - L2454143-02 0.0045
20 - L2454521-01 0.0486
21 - L2454521-02 0.0591
22 - L2454521-03 0.0787
23 - L2454521-04 0.0107
24 - L2454521-05 0.0304
Absorbance
Time (sec)



Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

```
FIAsoft FIAsoft v3.1.10

FIAlyzer Settings
------------
FIAlab1 Serial Number: FIA31428
FIAlab2 Serial Number: FIA31429
Pump: Connected on COM8

Spectrometer Settings
Spectrometer1
------------
Spectrometer Type: tec5
Integration Time: 35.4
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Spectrometer2
------------
Spectrometer Type: tec5
Integration Time: 3
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
        |---  Low: 500nm
        |--- High: 650nm
Reduce to Boxcar: True

Start Time
------------
2024-09-24T09:16:36

Method
------------
' Method Script for NOx-NO2

Autosave Data C:\FIAlab\Autosave Data\DateTime
FIAlab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIAlab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35  'StartDelay2 - Controls initial sample introduction.

FIAlab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIAlab2 Injection Valve Sample Inject
Delay (sec) 15   'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5   'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

   Analyte New Sample
   Delay (sec) 1
   Next Sample
   Autosampler Probe Force Down

   Spectrometer Reference Scan
   Spectrometer Absorbance Scanning

   Delay (sec) 3   ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

   FIAlab Injection Valve Sample Load

   Delay (sec) 35   ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.
```

```
    FIAlab1 Injection Valve Sample Inject
    Autosampler Probe Up
    Delay (sec) 5
    Autosampler Position (#) Rinse
    FIAlab2 Injection Valve Sample Inject

    Delay (sec) 10   ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

    Autosampler Probe Up

    Delay (sec) 3   ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

    Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIAlab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIAlab\autoreport\NOxNO2\DateTime
Message Run is Complete
```

Method File Location: C:\FIAlab\FIAlab User Files\Methods\Method_NOx+NO2.fia

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975296-4	**MS Analysis Date**	: 09/24/24 07:01
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Nitrogen, Nitrate/Nitrite	3.8	4	7.6	95					80-120	20

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/24/24 09:23
Dup Sample ID	: WG1975296-3	**DUP Analysis Date**	: 09/24/24 09:24

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	3.8	3.8	0	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975296-2	**LCS Analysis Date**	: 09/24/24 03:55
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**5.00**	**4.90**	**98.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date:	Initals:	Syringe Lot:	Syringe Lot: 20230620
092424	KAF	Filter Lot:	Filter Lot: 18048470A

Injection #	Rack #	Sample ID:	Comments:
19	RA1	ICV NO3 5	*Buffer: NO3NO2_091924_BUFFER*
20	RA2	ICV NO2 5	*Color: NO3NO2_091824_COLOR*
21	RA3	ICV NO3 0.5	*NO3 MS: NO3_082924_200PPM_CAL*
22	RA4	ICV NO2 0.5	*NO2 MS: NO2_092124_200PPM_CAL*
23	RA5	ICB	*ICV NO3 5: NO3_092124_5PPM_ICV*
X	RA6	5X DILUTER CHECK	*ICV NO2 5: NO2_092124_5PPM_ICV*
24	RA7	BLANK NO3	*ICV NO3 0.5: NO3_092424_0.5PPM_ICV*
25	RA8	LCS NO3	*ICV NO2 0.5: NO2_092424_0.5PPM_ICV*
26	RA9	BLANK NO2	
27	RA10	LCS NO2	
31	RA11	WG1975294-1; CNO3	*OOH*
32	RA12	WG1975294-2; CNO3	*DW*
33	RA13	WG1975295-1; CNO3	GOING OOH
34	RA14	WG1975295-2; CNO3	FIELD BLANK
35	RA15	WG1975296-1; CNO3	
36	RA16	WG1975296-2; CNO3	
37	RA17	WG1975297-1; CNO3	
38	RA18	WG1975297-2; CNO3	
39	RA19	L2453804-01	
40	RA20	WG1975294-3; CNO3	
44	RA21	WG1975294-4; CNO3	
45	RA22	L2453807-02	
46	RA23	WG1975294-5; CNO3	
47	RA24	WG1975294-6; CNO3	
48	RA25	L2453808-03	
49	RA26	L2453894-01	
50	RA27	L2453894-02	
51	RA28	L2453894-03	
52	RA29	L2453894-04	
53	RA30	L2453894-05	
57	RA31	L2453894-06	
58	RA32	L2453894-07	
59	RA33	L2453894-08	
60	RA34	L2453894-09	
61	RA35	L2453894-10	
62	RA36	L2453894-11	
5	RA37	L2453904-01	
6	RA38	L2454505-02	
7	RA39	L2454580-01	
8	RA40	L2454580-02	
9	RA41	L2454272-01	
10	RA42	WG1975295-3; CNO3	

Injection #	Rack #	Sample ID:	Comments:
11	RA43	WG1975295-4; CNO3	
12	RA44	L2454272-02	
13	RA45	L2454272-04	
14	RA46	L2454272-05	
18	RA47	L2454272-06	
19	RA48	L2454272-07	
20	RA49	L2454272-08	
21	RA50	L2454272-09	
22	RA51	L2454272-10	
23	RA52	L2452183-04	
24	RA53	L2452183-05	
25	RA54	L2452183-06	
26	RA55	L2453498-01	
27	RA56	L2453498-02	
31	RA57	L2453498-03	
32	RA58	L2453498-04	
33	RA59	L2453498-05	
34	RA60	L2453498-06	
35	RA61	L2453498-07	
36	RA62	L2453657-01	
37; 5	RA63	L2453720-01	
38; 6	RA64	L2453720-02	
39; 7	RA65	WG1975296-3; CNO3	
40	RA66	WG1975296-4; CNO3	
44	RA67	L2453720-03	
45	RA68	L2453720-04	
46	RA69	L2453720-06	
47	RA70	L2453720-07	
48	RA71	L2453720-08	
49	RA72	L2453720-09	
50	RA73	L2454352-01	
8	RA74	L2454059-01	
9	RA75	WG1975297-3; CNO3	
	RA76	WG1975297-4; CNO3	
11	RA77	L2454059-02	
12	RA78	L2454142-01	
13	RA79	L2454142-02	
14	RA80	L2454143-01	
19	RA81	L2454143-02	
20	RA82	L2454521-01	
21	RA83	L2454521-02	
22	RA84	L2454521-03	
23	RA85	L2454521-04	
24	RA86	L2454521-05	
25	RA87	L2454521-06	

Injection #	Rack #	Sample ID:	Comments:
18	RD1	L2453657-01	
10	RD2	WG1975297-4	

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 03:42
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975314.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	64.	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-02	**Date Collected**	:	09/18/24 09:05
Client ID	:	MW-8D	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 03:42
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1975314.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	170	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-03	**Date Collected**	:	09/18/24 12:00
Client ID	:	DUP_091824	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 03:42
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1975314.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	100	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 03:42
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975314.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	5.0	10	3.1	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 03:42
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975314.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	170	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-07	**Date Collected**	:	09/18/24 11:25
Client ID	:	PZ-5	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 03:42
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1975314.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	100	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 03:42
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975314.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	180	13	4.0	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-09	**Date Collected**	:	09/18/24 13:00
Client ID	:	MW-12D	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 03:42
Sample Matrix	:	WATER	**Dilution Factor**	:	1.3
Analytical Method	:	121,2540C	**Analyst**	:	DEW
Lab File ID	:	WG1975314.pdf	**Instrument ID**	:	BALANCE#22
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	180	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975314-1	**Date Collected**	: NA
Client ID	: WG1975314-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 03:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975314.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975314-3	**Date Collected**	: 09/18/24 14:45
Client ID	: WG1975314-3 DUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 03:42
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975314.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	140	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975314-4	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8DDUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 03:42
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1975314.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	150	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: SEP-25-24 11:45:27

WorkGroup	WG1975314	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**		**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**		**Temp Out (C)**					
Method	SM2540C	**Time In**	24-SEP-24 23:46	**Time In**	25-SEP-24 05:12	**Time In**	25-SEP-24 07:36	**Time In**		**Time In**					
Instrument	BALANCE#22	**Time Out**	25-SEP-24 03:46	**Time Out**	25-SEP-24 07:34	**Time Out**	25-SEP-24 09:03	**Time Out**		**Time Out**					

Evaporation	**Temp In (C)**	**Time In**
	90	24-SEP-24 09:49

LCS Lot #	**TrueValue**	**Units**
082724D	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2453711-09	24-SEP-24 03:42	DEB WHELAN	XB	77340422	71.0804	80	71.0912	71.0908				130.00	1.3	
L2453711-10	24-SEP-24 03:42	DEB WHELAN	EZ	77340422	66.4922	80	66.4985	66.4983				76.25	1.3	
L2453711-11	24-SEP-24 03:42	DEB WHELAN	BIR	77340422	84.4208	100	84.4206	84.4204				-4.00	1	FB
L2453720-01	24-SEP-24 03:42	DEB WHELAN	A5	77340422	64.0361	80	64.0412	64.0416				63.75	1.3	T2
L2453720-02	24-SEP-24 03:42	DEB WHELAN	BRR	77340422	122.7255	80	122.7389	122.7392				167.50	1.3	
L2453720-03	24-SEP-24 03:42	DEB WHELAN	BF	77340422	103.6578	80	103.6664	103.6661				103.75	1.3	
L2453720-04	24-SEP-24 03:42	DEB WHELAN	BQ	77340422	110.8626	100	110.8631	110.8634				5.00	1	EB
L2453720-06	24-SEP-24 03:42	DEB WHELAN	P2	77340422	64.6053	80	64.6187	64.6198	64.6196			167.50	1.3	
L2453720-07	24-SEP-24 03:42	DEB WHELAN	SC	77340422	66.9856	80	66.9938	66.9959	66.9956			102.50	1.3	
L2453720-08	24-SEP-24 03:42	DEB WHELAN	ES	77340422	59.921	80	59.9354	59.9369	59.9367			180.00	1.3	
L2453720-09	24-SEP-24 03:42	DEB WHELAN	X	77340422	65.438	80	65.452	65.453	65.4527			175.00	1.3	
WG1975314-1	24-SEP-24 03:42	DEB WHELAN		77340422	58.9408	100	58.94	58.9401				-8.00	1	
WG1975314-2	24-SEP-24 03:42	DEB WHELAN		77340422	116.031	50	116.0544	116.0542				464.00	2	
WG1975314-3	24-SEP-24 03:42	DEB WHELAN	A	77340422	56.8112	80	56.8225	56.8227				141.25	1.3	
WG1975314-4	24-SEP-24 03:42	DEB WHELAN	A11	77340422	69.7197	80	69.7322	69.7318				151.25	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 03:42
Dup Sample ID	: WG1975314-3	**DUP Analysis Date**	: 09/24/24 03:42

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	130	140	7	10

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/24/24 03:42
Dup Sample ID	: WG1975314-4	**DUP Analysis Date**	: 09/24/24 03:42

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	170	150	13 Q	10

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975314-2	**LCS Analysis Date**	: 09/24/24 03:42
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**460.**	**93.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfate Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975023.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	12.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975023.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	14.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-03	**Date Collected**	:	09/18/24 12:00
Client ID	:	DUP_091824	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/23/24 13:20
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1975023.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	12.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-04	**Date Collected**	:	09/18/24 14:00
Client ID	:	EQUIPMENT BLANK	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/23/24 13:20
Sample Matrix	:	Equipment Blank	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1975023.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.0	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 11:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975025.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	16.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 11:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975025.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	11.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 11:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975025.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	13.	10	1.4	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-09	**Date Collected**	:	09/18/24 13:00
Client ID	:	MW-12D	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/23/24 11:45
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500SO4-E	**Analyst**	:	MRW
Lab File ID	:	WG1975025.csv	**Instrument ID**	:	SPEC6
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	14.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975023-1	**Date Collected**	: NA
Client ID	: WG1975023-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975023.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.0	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975023-3	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8DDUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/23/24 13:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975023.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	15.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975025-1	**Date Collected**	: NA
Client ID	: WG1975025-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 11:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975025.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	2.0	10	1.4	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975025-3	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5DDUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/23/24 11:45
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500SO4-E	**Analyst**	: MRW
Lab File ID	: WG1975025.csv	**Instrument ID**	: SPEC6
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	17.	10	1.4	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt

Curve/spike/ccv;wc3437
LCS;wc3373

Sample Number: _____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml): 0.5
Spike Concentration (mg/l): 1000

Product: SO4-4500
Curve Calibration Date : 09/23/24
Curve Identifier: 9/23/2024
Analysis Analyte: Sulfate
Analysis Date: 9/23/2024 13:20
Preparation Date: 9/23/2024 13:20
Technician: MRW
Work group: WG1975023
RL: 10 mg/l
Cell: 2.5 cm

Reagent;lot A4117
Pippette/s: 322, 424
Acrodisk: FJ5503
Syringe: 2125536

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.001	1.0	1.81
10	0.159	1.0	8.32
20	0.416	1.0	18.9
40	0.951	1.0	41.0

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.024260	-0.0428

Correlation Coefficient
0.995346

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.001	0.001	1.951	1	1.0	2.0	Recovery
	ICV	25	25	0	0.405	0.405	18.449	1	1.0	18.4	92%
SAMP	L2453342-01	25	25	0.002	0.316	0.314	14.733	1	1.0	14.7	
SAMP	L2453342-02	25	25	0.008	0.943	0.935	40.093	1	1.0	40.1	
SAMP	L2453342-03	25	25	0.003	0.274	0.271	12.977	1	1.0	13.0	
SAMP	L2453342-04	10	25	0.003	0.268	0.265	12.732	1	2.5	31.8	
SAMP	L2453342-05	25	25	0.006	0.489	0.483	21.635	1	1.0	21.6	
SAMP	L2453342-06	25	25	0.004	0.016	0.012	2.400	1	1.0	2.4	
SAMP	L2453342-07	25	25	0.003	0.375	0.372	17.102	1	1.0	17.1	
SAMP	L2453342-08	25	25	0.006	0.722	0.716	31.150	1	1.0	31.1	
	CCV1	25	25	0	0.406	0.406	18.490	1	1.0	18.5	
	CCB1	25	25	0	0.005	0.005	2.115	1	1.0	2.1	
SAMP	L2453342-10	25	25	0	0.004	0.004	2.074	1	1.0	2.1	
SAMP	L2453698-01	2	25	0.003	0.847	0.844	36.377	1	12.5	454.7	FILTERED
SAMP	L2453698-02	2	25	0.006	0.889	0.883	37.970	1	12.5	474.6	
SAMP	L2453698-03	2	25	0.006	0.632	0.626	27.475	1	12.5	343.4	
SAMP	L2453698-05	2	25	0.004	0.574	0.570	25.188	1	12.5	314.8	FILTERED
SAMP	L2453698-07	2.5	25	0.015	0.278	0.263	12.651	1	10.0	126.5	
SAMP	L2453698-08	2.5	25	0.007	0.34	0.333	15.509	1	10.0	155.1	
SAMP	L2453698-10	5	25	0.004	0.327	0.323	15.101	1	5.0	75.5	
SAMP	L2453720-01	25	25	0.006	0.249	0.243	11.834	1	1.0	11.8	
SAMP	L2453720-02	25	25	0.003	0.309	0.306	14.407	1	1.0	14.4	
	CCV2	25	25	0	0.397	0.397	18.123	1	1.0	18.1	
	CCB2	25	25	0	0.002	0.002	1.992	1	1.0	2.0	
SAMP	L2453720-03	25	25	0.005	0.253	0.248	12.038	1	1.0	12.0	
SAMP	L2453720-04	25	25	0.001	0.003	0.002	1.992	1	1.0	2.0	
	CCV3	25	25	0	0.396	0.396	18.082	1	1.0	18.1	
	CCB3	25	25	0	0.003	0.003	2.033	1	1.0	2.0	
BLANK	WG1975023-1	25	25	0.000	0.001	0.001	1.951	1	1.0	2.0	
DUP	WG1975023-3	25	25	0.003	0.316	0.313	14.692	1	1.0	14.7	L2453720-02

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1975023-4	12.5	25	0.002	0.614	0.612	14.400	12.5	40.0000	54	99
											L2453720-02
LCS	WG1975023-2	25	25	0	0.405	0.405		1	20.0000	18	92

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;wc3437
LCS;wc3373
Reagent;lot A4117
Pippette/s: 322, 424
Acrodisk: FJ5503
Syringe: 2125536

Sample Number: _____
Client: _____
Analysis: Sulfate, SO4
Method: SM 4500SO4-E
Instrument: SPEC6
Wavelength: 420 nm
Spike Volume(ml): 0.5
Spike Concentration (mg/l): 1000

Product: SO4-4500
Curve Calibration Date : 09/23/24
Curve Identifier: 9/23/2024
Analysis Analyte: Sulfate
Analysis Date: 9/23/2024 11:45
Preparation Date: 9/23/2024 11:45
Technician: MRW
Work group: WG1975025
RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result
0	0.001	1.0	1.81
10	0.159	1.0	8.32
20	0.416	1.0	18.9
40	0.951	1.0	41.0

Calibration Curve
Volume: 25 ml

Slope	y-intercept
0.024260	-0.0428

Correlation Coefficient
0.995346

ICV/LCS Concentration (mg/l) = 20.0000

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.001	0.001	1.951	1	1.0	2.0	**Recovery**
	ICV	25	25	0	0.418	0.418	18.980	1	1.0	19.0	95%
SAMP	L2453720-06	25	25	0.01	0.356	0.346	16.040	1	1.0	16.0	
SAMP	L2453720-07	25	25	0.004	0.233	0.229	11.262	1	1.0	11.3	
SAMP	L2453720-08	25	25	0.001	0.264	0.263	12.651	1	1.0	12.7	
SAMP	L2453720-09	25	25	0.004	0.292	0.288	13.672	1	1.0	13.7	
	CCV	25	25	0	0.409	0.409	18.613	1	1.0	18.6	
	CCB	25	25	0	0.002	0.002	1.992	1	1.0	2.0	
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
BLANK	WG1975025-1	25	25	0.000	0.001	0.001	1.951	1	1.0	2.0	
DUP	WG1975025-3	25	25	0.01	0.374	0.364	16.775	1	1.0	16.8	**L2453720-06**

	Sample number	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1975025-4	12.5	25	0.005	0.686	0.681	16.000	12.5	40.0000	59	109
											L2453720-06
LCS	WG1975025-2	25	25	0	0.418	0.418		1	20.0000	19	95

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975023-4	**MS Analysis Date**	: 09/23/24 13:20
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Sulfate	14.	40	54.	100					55-147	14

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2453720-06		
Matrix Spike	: WG1975025-4	**MS Analysis Date**	: 09/23/24 11:45
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfate	16.	40	59.	108					55-147	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/23/24 13:20
Dup Sample ID	: WG1975023-3	**DUP Analysis Date**	: 09/23/24 13:20

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	14.	15.	7	14

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-5D	**Matrix**	: WATER
Lab Sample ID	: L2453720-06	**Analysis Date**	: 09/23/24 11:45
Dup Sample ID	: WG1975025-3	**DUP Analysis Date**	: 09/23/24 11:45

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	16.	17.	6	14

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975023-2	**LCS Analysis Date**	: 09/23/24 13:20
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**20.0**	**18.0**	**90.**					**90-110**	**14**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975025-2	**LCS Analysis Date**	: 09/23/24 11:45
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfate	**20.0**	**19.0**	**95.**					**90-110**	**14**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	4500SO4-E	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	10	1.37	mg/l	90-110		55-147	14	14	9038	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfate	14808-79-8	100	13.6	mg/kg	80-121	12	22-183	12	12	9038	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$mgSO_4/L = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 02:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240921-A.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	13.6	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 02:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240921-A.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	20.2	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 02:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240921-A.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	9.66	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 02:59
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240921-A.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 03:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240921-A.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	30.0	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 03:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240921-A.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	60.9	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 03:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240921-A.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	17.9	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 03:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240921-A.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	27.7	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974482-1	**Date Collected**	: NA
Client ID	: WG1974482-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/21/24 03:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240921-A.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974482-3	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8DDUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/21/24 02:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRM
Lab File ID	: 240921-A.csv	**Instrument ID**	: TITR5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	19.8	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Titration report

Method

Method ID	pH Cal. 7 4 10	**Release state**	Released
Name	Calibration	**Modified by**	SystemInternal
Modified on	10/3/2023 12:47:09 PM		

Summary

Samples

	Sample ID	Name	Result	State
1	METTLER TOLEDO (Ref. 25°C) pH	pH	7.00	
2	METTLER TOLEDO (Ref. 25°C) pH	pH	4.01	
3	METTLER TOLEDO (Ref. 25°C) pH	pH	10.00	

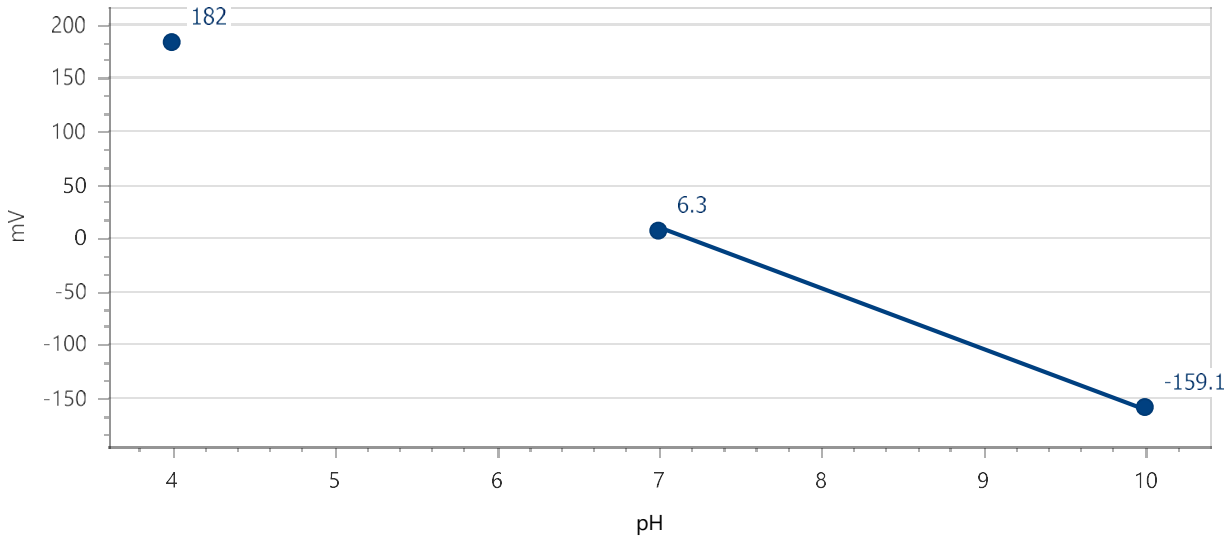
Results

Zero point 1 Cal1.Z1	7.174 pH
Slope 1 Cal1.S1	-56.94 mV/pH

Calibration

Sensor	Sensor DG111-SC
Creation time	9/21/2024 1:38:07 AM
Overall state	OK
Successful	Yes
Calib. temperature	25.0 °C
SLOPECal	-56.94 mV/pH
ZEROCal	7.174 pH

Calibration Curve



Used Instruments

Titration report

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
9/21/2024 1:33:39 AM	SystemInternal	System internal account

Titration report

Method

Method ID	pH Measure	**Release state**	Released
Name	Measure	**Modified by**	SystemInternal
Modified on	2/23/2024 9:31:05 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	--	Sample size	0 mL	
		Potential R1	7.04 pH	OK

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
9/21/2024 1:42:14 AM	SystemInternal	System internal account

Titration report

Method

Method ID	Alk Total (2)	**Release state**	Released
Name	EP/EP	**Modified by**	SystemInternal
Modified on	10/14/2023 11:44:43 AM		

Summary

Samples

	Sample ID	Name	Result	State
1	Rinse,MRM	Sample size	50 mL	
		Potential R4	7.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.914 mL	OK
		Consumption 4.2 R3	0.917 mL	OK
		Content R5	18.280 mg/L	OK
		ALK LOW R6	18.220 mg/L	OK
2	Rinse,MRM	Sample size	50 mL	
		Potential R4	4.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.028 mL	OK
		Consumption 4.2 R3	0.035 mL	OK
		Content R5	0.560 mg/L	OK
		ALK LOW R6	0.420 mg/L	OK
3	Rinse,MRM	Sample size	50 mL	
		Potential R4	4.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.028 mL	OK
		Consumption 4.2 R3	0.032 mL	OK
		Content R5	0.560 mg/L	OK
		ALK LOW R6	0.480 mg/L	OK
4	WG1974481-1	Sample size	50 mL	
		Potential R4	4.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.019 mL	OK
		Consumption 4.2 R3	0.030 mL	OK
		Content R5	0.380 mg/L	OK
		ALK LOW R6	0.160 mg/L	OK
5	WG1974481-2	Sample size	50 mL	
		Potential R4	10.74 pH	OK
		Consumption 8.3 R1	4.731 mL	OK
		Consumption 4.5 R2	5.118 mL	OK
		Consumption 4.2 R3	5.122 mL	OK
		Content R5	102.360 mg/L	OK
		ALK LOW R6	102.280 mg/L	OK
6	L2453129-01	Sample size	50 mL	

Titration report

		Potential R4	5.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.094 mL	OK
		Consumption 4.2 R3	6.194 mL	OK
		Content R5	121.880 mg/L	OK
		ALK LOW R6	119.880 mg/L	OK
7	L2453129-06	Sample size	50 mL	
		Potential R4	6.78 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
8	L2453129-07	Sample size	50 mL	
		Potential R4	8.03 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.474 mL	OK
		Consumption 4.2 R3	0.478 mL	OK
		Content R5	9.480 mg/L	OK
		ALK LOW R6	9.400 mg/L	OK
9	L2453129-07	Sample size	50 mL	
		Potential R4	5.19 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.051 mL	OK
		Consumption 4.2 R3	0.057 mL	OK
		Content R5	1.020 mg/L	OK
		ALK LOW R6	0.900 mg/L	OK
10	L2453603-01	Sample size	50 mL	
		Potential R4	5.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.111 mL	OK
		Consumption 4.2 R3	7.284 mL	OK
		Content R5	142.220 mg/L	OK
		ALK LOW R6	138.760 mg/L	OK
11	WG1974481-3	Sample size	50 mL	
		Potential R4	5.77 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.045 mL	OK
		Consumption 4.2 R3	7.214 mL	OK
		Content R5	140.900 mg/L	OK
		ALK LOW R6	137.520 mg/L	OK
12	WG1974481-4	Sample size	50 mL	
		Potential R4	6.13 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.618 mL	OK
		Consumption 4.2 R3	12.830 mL	OK
		Content R5	252.360 mg/L	OK

Titration report

		ALK LOW R6	248.120 mg/L	OK
13	L2453603-02	Sample size	50 mL	
		Potential R4	6.31 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	19.360 mL	OK
		Consumption 4.2 R3	19.629 mL	OK
		Content R5	387.200 mg/L	OK
		ALK LOW R6	381.820 mg/L	OK
14	L2453603-04	Sample size	50 mL	
		Potential R4	6.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
15	L2453603-05	Sample size	50 mL	
		Potential R4	6.40 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.181 mL	OK
		Consumption 4.2 R3	0.184 mL	OK
		Content R5	3.620 mg/L	OK
		ALK LOW R6	3.560 mg/L	OK
16	L2453603-05	Sample size	50 mL	
		Potential R4	5.12 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.063 mL	OK
		Consumption 4.2 R3	0.072 mL	OK
		Content R5	1.260 mg/L	OK
		ALK LOW R6	1.080 mg/L	OK
17	L2453603-06	Sample size	50 mL	
		Potential R4	5.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.052 mL	OK
		Consumption 4.2 R3	0.062 mL	OK
		Content R5	1.040 mg/L	OK
		ALK LOW R6	0.840 mg/L	OK
18	L2453603-06	Sample size	50 mL	
		Potential R4	5.01 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.046 mL	OK
		Consumption 4.2 R3	0.054 mL	OK
		Content R5	0.920 mg/L	OK
		ALK LOW R6	0.760 mg/L	OK
19	L2453720-01	Sample size	50 mL	
		Potential R4	5.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.752 mL	OK

Titration report

		Consumption 4.2 R3	0.826 mL	OK
		Content R5	15.040 mg/L	OK
		ALK LOW R6	13.560 mg/L	OK
20	L2453720-02	Sample size	50 mL	
		Potential R4	5.30 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.012 mL	OK
		Consumption 4.2 R3	1.035 mL	OK
		Content R5	20.240 mg/L	OK
		ALK LOW R6	19.780 mg/L	OK
21	WG1974482-3	Sample size	50 mL	
		Potential R4	5.31 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.989 mL	OK
		Consumption 4.2 R3	0.989 mL	OK
		Content R5	19.780 mg/L	OK
		ALK LOW R6	19.780 mg/L	OK
22	L2453720-03	Sample size	50 mL	
		Potential R4	4.98 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.558 mL	OK
		Consumption 4.2 R3	0.633 mL	OK
		Content R5	11.160 mg/L	OK
		ALK LOW R6	9.660 mg/L	OK
23	L2453720-04	Sample size	50 mL	
		Potential R4	5.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.075 mL	OK
		Consumption 4.2 R3	0.083 mL	OK
		Content R5	1.500 mg/L	OK
		ALK LOW R6	1.340 mg/L	OK
24	L2453720-06	Sample size	50 mL	
		Potential R4	5.39 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.499 mL	OK
		Consumption 4.2 R3	1.540 mL	OK
		Content R5	29.980 mg/L	OK
		ALK LOW R6	29.160 mg/L	OK
25	L2453720-07	Sample size	50 mL	
		Potential R4	5.62 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.045 mL	OK
		Consumption 4.2 R3	3.097 mL	OK
		Content R5	60.900 mg/L	OK
		ALK LOW R6	59.860 mg/L	OK
26	L2453720-08	Sample size	50 mL	
		Potential R4	5.23 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.921 mL	OK
		Consumption 4.2 R3	0.946 mL	OK
		Content R5	18.420 mg/L	OK
		ALK LOW R6	17.920 mg/L	OK
27	L2453720-09	Sample size	50 mL	
		Potential R4	5.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.387 mL	OK
		Consumption 4.2 R3	1.425 mL	OK
		Content R5	27.740 mg/L	OK
		ALK LOW R6	26.980 mg/L	OK
28	L2453129-06 5x	Sample size	50 mL	
		Potential R4	6.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.878 mL	OK
		Consumption 4.2 R3	15.082 mL	OK
		Content R5	297.560 mg/L	OK
		ALK LOW R6	293.480 mg/L	OK
29	L2453603-04 5x	Sample size	50 mL	
		Potential R4	5.78 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.143 mL	OK
		Consumption 4.2 R3	4.175 mL	OK
		Content R5	82.860 mg/L	OK
		ALK LOW R6	82.220 mg/L	OK
30	CCV	Sample size	50 mL	
		Potential R4	10.25 pH	OK
		Consumption 8.3 R1	2.465 mL	OK
		Consumption 4.5 R2	2.838 mL	OK
		Consumption 4.2 R3	2.843 mL	OK
		Content R5	56.760 mg/L	OK
		ALK LOW R6	56.660 mg/L	OK
31	WG1974482-1	Sample size	50 mL	
		Potential R4	5.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.043 mL	OK
		Consumption 4.2 R3	0.049 mL	OK
		Content R5	0.860 mg/L	OK
		ALK LOW R6	0.740 mg/L	OK
32	CCV	Sample size	50 mL	
		Potential R4	11.06 pH	OK
		Consumption 8.3 R1	4.888 mL	OK
		Consumption 4.5 R2	5.230 mL	OK
		Consumption 4.2 R3	5.236 mL	OK
		Content R5	104.600 mg/L	OK
		ALK LOW R6	104.480 mg/L	OK

Titration report

33	WG1974482-1	Sample size	50 mL	
		Potential R4	5.19 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.048 mL	OK
		Consumption 4.2 R3	0.054 mL	OK
		Content R5	0.960 mg/L	OK
		ALK LOW R6	0.840 mg/L	OK
34	L2453252-01	Sample size	50 mL	
		Potential R4	6.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.604 mL	OK
		Consumption 4.2 R3	17.758 mL	OK
		Content R5	352.080 mg/L	OK
		ALK LOW R6	349.000 mg/L	OK
35	L2453252-02	Sample size	50 mL	
		Potential R4	5.83 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.786 mL	OK
		Consumption 4.2 R3	9.917 mL	OK
		Content R5	195.720 mg/L	OK
		ALK LOW R6	193.100 mg/L	OK
36	L2453252-03	Sample size	50 mL	
		Potential R4	6.46 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.593 mL	OK
		Consumption 4.2 R3	13.791 mL	OK
		Content R5	271.860 mg/L	OK
		ALK LOW R6	267.900 mg/L	OK
37	L2453252-04	Sample size	50 mL	
		Potential R4	6.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.128 mL	OK
		Consumption 4.2 R3	8.190 mL	OK
		Content R5	162.560 mg/L	OK
		ALK LOW R6	161.320 mg/L	OK
38	L2453252-05	Sample size	50 mL	
		Potential R4	5.75 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.565 mL	OK
		Consumption 4.2 R3	3.602 mL	OK
		Content R5	71.300 mg/L	OK
		ALK LOW R6	70.560 mg/L	OK
39	L2453252-06	Sample size	50 mL	
		Potential R4	6.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	7.024 mL	OK
		Consumption 4.2 R3	7.090 mL	OK

Titration report

		Content R5	140.480 mg/L	OK
		ALK LOW R6	139.160 mg/L	OK
40	L2453252-07	Sample size	50 mL	
		Potential R4	6.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.306 mL	OK
		Consumption 4.2 R3	5.341 mL	OK
		Content R5	106.120 mg/L	OK
		ALK LOW R6	105.420 mg/L	OK
41	L2453252-08	Sample size	50 mL	
		Potential R4	6.63 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.104 mL	OK
		Consumption 4.2 R3	5.141 mL	OK
		Content R5	102.080 mg/L	OK
		ALK LOW R6	101.340 mg/L	OK
42	L2453255-01	Sample size	50 mL	
		Potential R4	6.41 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.874 mL	OK
		Consumption 4.2 R3	4.912 mL	OK
		Content R5	97.480 mg/L	OK
		ALK LOW R6	96.720 mg/L	OK
43	L2453255-02	Sample size	50 mL	
		Potential R4	7.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.481 mL	OK
		Consumption 4.2 R3	5.525 mL	OK
		Content R5	109.620 mg/L	OK
		ALK LOW R6	108.740 mg/L	OK
44	L2453298-01	Sample size	50 mL	
		Potential R4	5.11 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.312 mL	OK
		Consumption 4.2 R3	0.327 mL	OK
		Content R5	6.240 mg/L	OK
		ALK LOW R6	5.940 mg/L	OK
45	L2453298-02	Sample size	50 mL	
		Potential R4	6.06 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.192 mL	OK
		Consumption 4.2 R3	5.234 mL	OK
		Content R5	103.840 mg/L	OK
		ALK LOW R6	103.000 mg/L	OK
46	L2453356-03	Sample size	50 mL	
		Potential R4	4.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.159 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
47	L2453356-04	Sample size	50 mL	
		Potential R4	5.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.169 mL	OK
		Consumption 4.2 R3	2.188 mL	OK
		Content R5	43.380 mg/L	OK
		ALK LOW R6	43.000 mg/L	OK
48	L2453356-05	Sample size	50 mL	
		Potential R4	5.83 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.956 mL	OK
		Consumption 4.2 R3	6.057 mL	OK
		Content R5	119.120 mg/L	OK
		ALK LOW R6	117.100 mg/L	OK
49	L2453356-06	Sample size	50 mL	
		Potential R4	4.51 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.058 mL	OK
		Consumption 4.2 R3	0.224 mL	OK
		Content R5	1.160 mg/L	OK
		ALK LOW R6	-2.160 mg/L	OK
50	L2453356-07	Sample size	50 mL	
		Potential R4	5.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.336 mL	OK
		Consumption 4.2 R3	5.411 mL	OK
		Content R5	106.720 mg/L	OK
		ALK LOW R6	105.220 mg/L	OK
51	L2453356-08	Sample size	50 mL	
		Potential R4	5.82 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.553 mL	OK
		Consumption 4.2 R3	5.665 mL	OK
		Content R5	111.060 mg/L	OK
		ALK LOW R6	108.820 mg/L	OK
52	L2453356-09	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.385 mL	OK
		Consumption 4.2 R3	5.437 mL	OK
		Content R5	107.700 mg/L	OK
		ALK LOW R6	106.660 mg/L	OK
53	L2453383-01	Sample size	50 mL	

Titration report

		Potential R4	6.08 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.615 mL	OK
		Consumption 4.2 R3	2.628 mL	OK
		Content R5	52.300 mg/L	OK
		ALK LOW R6	52.040 mg/L	OK
54	WG1974483-3	Sample size	50 mL	
		Potential R4	6.05 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.687 mL	OK
		Consumption 4.2 R3	2.703 mL	OK
		Content R5	53.740 mg/L	OK
		ALK LOW R6	53.420 mg/L	OK
55	WG1974483-4	Sample size	50 mL	
		Potential R4	10.40 pH	OK
		Consumption 8.3 R1	5.574 mL	OK
		Consumption 4.5 R2	8.223 mL	OK
		Consumption 4.2 R3	8.236 mL	OK
		Content R5	164.460 mg/L	OK
		ALK LOW R6	164.200 mg/L	OK
56	WG1974483-2	Sample size	50 mL	
		Potential R4	10.84 pH	OK
		Consumption 8.3 R1	4.839 mL	OK
		Consumption 4.5 R2	5.210 mL	OK
		Consumption 4.2 R3	5.210 mL	OK
		Content R5	104.200 mg/L	OK
		ALK LOW R6	104.200 mg/L	OK
57	WG1974483-1	Sample size	50 mL	
		Potential R4	5.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.048 mL	OK
		Consumption 4.2 R3	0.053 mL	OK
		Content R5	0.960 mg/L	OK
		ALK LOW R6	0.860 mg/L	OK
58	L2453321-03	Sample size	50 mL	
		Potential R4	5.89 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.477 mL	OK
		Consumption 4.2 R3	8.574 mL	OK
		Content R5	169.540 mg/L	OK
		ALK LOW R6	167.600 mg/L	OK
59	WG1974484-5	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.281 mL	OK
		Consumption 4.2 R3	8.363 mL	OK
		Content R5	165.620 mg/L	OK

Titration report

		ALK LOW R6	163.980 mg/L	OK
60	WG1974484-6	Sample size	50 mL	
		Potential R4	8.78 pH	OK
		Consumption 8.3 R1	1.825 mL	OK
		Consumption 4.5 R2	13.581 mL	OK
		Consumption 4.2 R3	13.679 mL	OK
		Content R5	271.620 mg/L	OK
		ALK LOW R6	269.660 mg/L	OK
61	L2453321-04	Sample size	50 mL	
		Potential R4	6.55 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.181 mL	OK
		Consumption 4.2 R3	9.260 mL	OK
		Content R5	183.620 mg/L	OK
		ALK LOW R6	182.040 mg/L	OK
62	L2453321-05	Sample size	50 mL	
		Potential R4	6.69 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.147 mL	OK
		Consumption 4.2 R3	8.224 mL	OK
		Content R5	162.940 mg/L	OK
		ALK LOW R6	161.400 mg/L	OK
63	L2453399-01	Sample size	50 mL	
		Potential R4	5.52 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.496 mL	OK
		Consumption 4.2 R3	3.612 mL	OK
		Content R5	69.920 mg/L	OK
		ALK LOW R6	67.600 mg/L	OK
64	L2453399-02	Sample size	50 mL	
		Potential R4	5.70 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.922 mL	OK
		Consumption 4.2 R3	6.040 mL	OK
		Content R5	118.440 mg/L	OK
		ALK LOW R6	116.080 mg/L	OK
65	WG1974484-3	Sample size	50 mL	
		Potential R4	5.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.810 mL	OK
		Consumption 4.2 R3	5.913 mL	OK
		Content R5	116.200 mg/L	OK
		ALK LOW R6	114.140 mg/L	OK
66	WG1974484-4	Sample size	50 mL	
		Potential R4	6.10 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	10.821 mL	OK

Titration report

		Consumption 4.2 R3	10.932 mL	OK
		Content R5	216.420 mg/L	OK
		ALK LOW R6	214.200 mg/L	OK
67	L2453399-03	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.843 mL	OK
		Consumption 4.2 R3	0.863 mL	OK
		Content R5	16.860 mg/L	OK
		ALK LOW R6	16.460 mg/L	OK
68	L2453399-04	Sample size	50 mL	
		Potential R4	5.87 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.998 mL	OK
		Consumption 4.2 R3	15.194 mL	OK
		Content R5	299.960 mg/L	OK
		ALK LOW R6	296.040 mg/L	OK
69	L2453399-05	Sample size	50 mL	
		Potential R4	5.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.008 mL	OK
		Consumption 4.2 R3	12.209 mL	OK
		Content R5	240.160 mg/L	OK
		ALK LOW R6	236.140 mg/L	OK
70	L2453400-01	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.504 mL	OK
		Consumption 4.2 R3	8.664 mL	OK
		Content R5	170.080 mg/L	OK
		ALK LOW R6	166.880 mg/L	OK
71	L2453400-02	Sample size	50 mL	
		Potential R4	5.78 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.315 mL	OK
		Consumption 4.2 R3	8.497 mL	OK
		Content R5	166.300 mg/L	OK
		ALK LOW R6	162.660 mg/L	OK
72	L2453400-03	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.737 mL	OK
		Consumption 4.2 R3	5.854 mL	OK
		Content R5	114.740 mg/L	OK
		ALK LOW R6	112.400 mg/L	OK
73	L2453400-04	Sample size	50 mL	
		Potential R4	5.59 pH	OK

Titration report

		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.097 mL	OK
		Consumption 4.2 R3	0.100 mL	OK
		Content R5	1.940 mg/L	OK
		ALK LOW R6	1.880 mg/L	OK
74	L2453400-04	Sample size	50 mL	
		Potential R4	5.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.075 mL	OK
		Consumption 4.2 R3	0.080 mL	OK
		Content R5	1.500 mg/L	OK
		ALK LOW R6	1.400 mg/L	OK
75	L2453576-01	Sample size	50 mL	
		Potential R4	6.58 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	16.268 mL	OK
		Consumption 4.2 R3	16.433 mL	OK
		Content R5	325.360 mg/L	OK
		ALK LOW R6	322.060 mg/L	OK
76	L2453576-02	Sample size	50 mL	
		Potential R4	6.39 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	18.506 mL	OK
		Consumption 4.2 R3	18.704 mL	OK
		Content R5	370.120 mg/L	OK
		ALK LOW R6	366.160 mg/L	OK
77	L2453576-03	Sample size	50 mL	
		Potential R4	6.69 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
78	L2453576-04	Sample size	50 mL	
		Potential R4	6.94 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.457 mL	OK
		Consumption 4.2 R3	17.675 mL	OK
		Content R5	349.140 mg/L	OK
		ALK LOW R6	344.780 mg/L	OK
79	L2453576-05	Sample size	50 mL	
		Potential R4	6.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.991 mL	OK
		Consumption 4.2 R3	15.187 mL	OK
		Content R5	299.820 mg/L	OK
		ALK LOW R6	295.900 mg/L	OK

Titration report

LabX

80	L2453576-06	Sample size	50 mL	
		Potential R4	6.70 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
81	L2453576-07	Sample size	50 mL	
		Potential R4	6.92 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
82	L2453576-03 5x	Sample size	50 mL	
		Potential R4	6.66 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	5.173 mL	OK
		Consumption 4.2 R3	5.223 mL	OK
		Content R5	103.460 mg/L	OK
		ALK LOW R6	102.460 mg/L	OK
83	WG1974484-2	Sample size	50 mL	
		Potential R4	10.70 pH	OK
		Consumption 8.3 R1	4.834 mL	OK
		Consumption 4.5 R2	5.180 mL	OK
		Consumption 4.2 R3	5.182 mL	OK
		Content R5	103.600 mg/L	OK
		ALK LOW R6	103.560 mg/L	OK
84	WG1974484-1	Sample size	50 mL	
		Potential R4	5.21 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.048 mL	OK
		Consumption 4.2 R3	0.053 mL	OK
		Content R5	0.960 mg/L	OK
		ALK LOW R6	0.860 mg/L	OK
85	L2453623-01	Sample size	50 mL	
		Potential R4	6.34 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
86	L2453623-02	Sample size	50 mL	
		Potential R4	6.65 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	17.057 mL	OK
		Consumption 4.2 R3	17.257 mL	OK

Titration report

		Content R5	341.140 mg/L	OK
		ALK LOW R6	337.140 mg/L	OK
87	L2453623-03	Sample size	50 mL	
		Potential R4	6.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	19.321 mL	OK
		Consumption 4.2 R3	19.561 mL	OK
		Content R5	386.420 mg/L	OK
		ALK LOW R6	381.620 mg/L	OK
88	L2453623-04	Sample size	50 mL	
		Potential R4	6.28 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
89	L2453623-05	Sample size	50 mL	
		Potential R4	7.05 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.863 mL	OK
		Consumption 4.2 R3	8.959 mL	OK
		Content R5	177.260 mg/L	OK
		ALK LOW R6	175.340 mg/L	OK
90	L2453623-06	Sample size	50 mL	
		Potential R4	6.81 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.285 mL	OK
		Consumption 4.2 R3	14.437 mL	OK
		Content R5	285.700 mg/L	OK
		ALK LOW R6	282.660 mg/L	OK
91	L2453623-07	Sample size	50 mL	
		Potential R4	6.33 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	16.383 mL	OK
		Consumption 4.2 R3	16.539 mL	OK
		Content R5	327.660 mg/L	OK
		ALK LOW R6	324.540 mg/L	OK
92	L2453623-08	Sample size	50 mL	
		Potential R4	6.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	14.327 mL	OK
		Consumption 4.2 R3	14.483 mL	OK
		Content R5	286.540 mg/L	OK
		ALK LOW R6	283.420 mg/L	OK
93	L2453576-06 5x	Sample size	50 mL	
		Potential R4	6.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

		Consumption 4.5 R2	7.841 mL	OK
		Consumption 4.2 R3	7.940 mL	OK
		Content R5	156.820 mg/L	OK
		ALK LOW R6	154.840 mg/L	OK
94	L2453576-07 5x	Sample size	50 mL	
		Potential R4	6.15 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.065 mL	OK
		Consumption 4.2 R3	6.713 mL	OK
		Content R5	121.300 mg/L	OK
		ALK LOW R6	108.340 mg/L	OK
95	L2453679-01	Sample size	50 mL	
		Potential R4	5.45 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.640 mL	OK
		Consumption 4.2 R3	0.648 mL	OK
		Content R5	12.800 mg/L	OK
		ALK LOW R6	12.640 mg/L	OK
96	L2453698-01	Sample size	50 mL	
		Potential R4	5.54 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.041 mL	OK
		Consumption 4.2 R3	2.094 mL	OK
		Content R5	40.820 mg/L	OK
		ALK LOW R6	39.760 mg/L	OK
97	L2453698-02	Sample size	50 mL	
		Potential R4	7.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.471 mL	OK
		Consumption 4.2 R3	3.488 mL	OK
		Content R5	69.420 mg/L	OK
		ALK LOW R6	69.080 mg/L	OK
98	L2453698-03	Sample size	50 mL	
		Potential R4	5.73 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.213 mL	OK
		Consumption 4.2 R3	6.364 mL	OK
		Content R5	124.260 mg/L	OK
		ALK LOW R6	121.240 mg/L	OK
99	L2453698-05	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.244 mL	OK
		Consumption 4.2 R3	13.445 mL	OK
		Content R5	264.880 mg/L	OK
		ALK LOW R6	260.860 mg/L	OK
100	L2453698-07	Sample size	50 mL	

Titration report

		Potential R4	5.79 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.498 mL	OK
		Consumption 4.2 R3	4.570 mL	OK
		Content R5	89.960 mg/L	OK
		ALK LOW R6	88.520 mg/L	OK
101	L2453698-08	Sample size	50 mL	
		Potential R4	5.52 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.365 mL	OK
		Consumption 4.2 R3	2.455 mL	OK
		Content R5	47.300 mg/L	OK
		ALK LOW R6	45.500 mg/L	OK
102	L2453906-01	Sample size	50 mL	
		Potential R4	5.59 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.439 mL	OK
		Consumption 4.2 R3	0.448 mL	OK
		Content R5	8.780 mg/L	OK
		ALK LOW R6	8.600 mg/L	OK
103	L2453916-01	Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.553 mL	OK
		Consumption 4.2 R3	0.560 mL	OK
		Content R5	11.060 mg/L	OK
		ALK LOW R6	10.920 mg/L	OK
104	WG1974485-3	Sample size	50 mL	
		Potential R4	5.56 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.542 mL	OK
		Consumption 4.2 R3	0.549 mL	OK
		Content R5	10.840 mg/L	OK
		ALK LOW R6	10.700 mg/L	OK
105	WG1974485-4	Sample size	50 mL	
		Potential R4	10.68 pH	OK
		Consumption 8.3 R1	5.535 mL	OK
		Consumption 4.5 R2	6.103 mL	OK
		Consumption 4.2 R3	6.109 mL	OK
		Content R5	122.060 mg/L	OK
		ALK LOW R6	121.940 mg/L	OK
106	L2453918-01	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.431 mL	OK
		Consumption 4.2 R3	8.529 mL	OK
		Content R5	168.620 mg/L	OK

Titration report

		ALK LOW R6	166.660 mg/L	OK
107	L2453918-02	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.594 mL	OK
		Consumption 4.2 R3	8.684 mL	OK
		Content R5	171.880 mg/L	OK
		ALK LOW R6	170.080 mg/L	OK
108	L2453921-01	Sample size	50 mL	
		Potential R4	5.85 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.122 mL	OK
		Consumption 4.2 R3	3.144 mL	OK
		Content R5	62.440 mg/L	OK
		ALK LOW R6	62.000 mg/L	OK
109	L2453626-01 5x	Sample size	50 mL	
		Potential R4	6.00 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.154 mL	OK
		Consumption 4.2 R3	6.206 mL	OK
		Content R5	123.080 mg/L	OK
		ALK LOW R6	122.040 mg/L	OK
110	L2453626-04 5x	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.723 mL	OK
		Consumption 4.2 R3	4.766 mL	OK
		Content R5	94.460 mg/L	OK
		ALK LOW R6	93.600 mg/L	OK
111	WG1974485-2	Sample size	50 mL	
		Potential R4	10.68 pH	OK
		Consumption 8.3 R1	4.761 mL	OK
		Consumption 4.5 R2	5.059 mL	OK
		Consumption 4.2 R3	5.064 mL	OK
		Content R5	101.180 mg/L	OK
		ALK LOW R6	101.080 mg/L	OK
112	WG1974485-1	Sample size	50 mL	
		Potential R4	5.15 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.045 mL	OK
		Consumption 4.2 R3	0.053 mL	OK
		Content R5	0.900 mg/L	OK
		ALK LOW R6	0.740 mg/L	OK
113	CCV	Sample size	50 mL	
		Potential R4	10.68 pH	OK
		Consumption 8.3 R1	4.775 mL	OK
		Consumption 4.5 R2	5.126 mL	OK

Titration report

		Consumption 4.2 R3	5.126 mL	OK
		Content R5	102.520 mg/L	OK
		ALK LOW R6	102.520 mg/L	OK
114	CCB	Sample size	50 mL	
		Potential R4	5.09 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.045 mL	OK
		Consumption 4.2 R3	0.048 mL	OK
		Content R5	0.900 mg/L	OK
		ALK LOW R6	0.840 mg/L	OK

Statistics

R1

Mean	NaN mL		
Maximum	5.574 mL	**Minimum**	1.825 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	114	**Samples excluded**	0

R2

Mean	NaN mL		
Maximum	19.360 mL	**Minimum**	0.019 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	114	**Samples excluded**	0

R3

Mean	NaN mL		
Maximum	19.629 mL	**Minimum**	0.030 mL
Standard deviation	NaN mL	**Rel. standard deviation**	NaN %
Total samples	114	**Samples excluded**	0

R4

Mean	6.32 pH		
Maximum	11.06 pH	**Minimum**	4.42 pH
Standard deviation	1.45 pH	**Rel. standard deviation**	23.005 %
Total samples	114	**Samples excluded**	0

R5

Mean	NaN mg/L		
Maximum	387.200 mg/L	**Minimum**	0.380 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	114	**Samples excluded**	0

R6

Titration report

Mean	NaN mg/L		
Maximum	381.820 mg/L	**Minimum**	-2.160 mg/L
Standard deviation	NaN mg/L	**Rel. standard deviation**	NaN %
Total samples	114	**Samples excluded**	0

Used Instruments

Name	T7 Excellence Titrator	**Serial number**	C329519495

Responsible User

Time	Login name	Full name
9/21/2024 1:48:15 AM	SystemInternal	System internal account

(17) Data compression on instrument occurred

Quality Control

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/21/24 02:54
Dup Sample ID	: WG1974482-3	**DUP Analysis Date**	: 09/21/24 02:56

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	20.2	19.8	2	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	240920	LCS 7.0	7.04	INT:	MRM
pH 4	3295	Titrant:	4193		
pH 7	3386	LCS:	3257		
pH 10	3298	MS:	3255		
LCS	3409				

1	Rinse,MRM	42	L2453255-01	83	WG1974484-2
2	Rinse,MRM	43	L2453255-02	84	WG1974484-1
3	Rinse,MRM	44	L2453298-01	85	L2453623-01
4	WG1974481-1	45	L2453298-02	86	L2453623-02
5	WG1974481-2	46	L2453356-03	87	L2453623-03
6	L2453129-01	47	L2453356-04	88	L2453623-04
7	L2453129-06	48	L2453356-05	89	L2453623-05
8	L2453129-07	49	L2453356-06	90	L2453623-06
9	L2453129-07	50	L2453356-07	91	L2453623-07
10	L2453603-01	51	L2453356-08	92	L2453623-08
11	WG1974481-3	52	L2453356-09	93	L2453576-06 5x
12	WG1974481-4	53	L2453383-01	94	L2453576-07 5x
13	L2453603-02	54	WG1974483-3	95	L2453679-01
14	L2453603-04	55	WG1974483-4	96	L2453698-01
15	L2453603-05	56	WG1974483-2	97	L2453698-02
16	L2453603-05	57	WG1974483-1	98	L2453698-03
17	L2453603-06	58	L2453321-03	99	L2453698-05
18	L2453603-06	59	WG1974484-5	100	L2453698-07
19	L2453720-01	60	WG1974484-6	101	L2453698-08
20	L2453720-02	61	L2453321-04	102	L2453906-01
21	WG1974482-3	62	L2453321-05	103	L2453916-01
22	L2453720-03	63	L2453399-01	104	WG1974485-3
23	L2453720-04	64	L2453399-02	105	WG1974485-4
24	L2453720-06	65	WG1974484-3	106	L2453918-01
25	L2453720-07	66	WG1974484-4	107	L2453918-02
26	L2453720-08	67	L2453399-03	108	L2453921-01
27	L2453720-09	68	L2453399-04	109	L2453626-01 5x
28	L2453129-06 5x	69	L2453399-05	110	L2453626-04 5x
29	L2453603-04 5x	70	L2453400-01	111	WG1974485-2
30	CCV	71	L2453400-02	112	WG1974485-1
31	WG1974482-1	72	L2453400-03	113	CCV
32	CCV	73	L2453400-04	114	CCB
33	WG1974482-1	74	L2453400-04		
34	L2453252-01	75	L2453576-01		2X = 25 mL
35	L2453252-02	76	L2453576-02		5X = 10 mL
36	L2453252-03	77	L2453576-03		10X = 5 mL
37	L2453252-04	78	L2453576-04		
38	L2453252-05	79	L2453576-05		
39	L2453252-06	80	L2453576-06		
40	L2453252-07	81	L2453576-07		
41	L2453252-08	82	L2453576-03 5x		

Chloride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 16:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	12.	1.0	0.89	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-02	**Date Collected**	:	09/18/24 09:05
Client ID	:	MW-8D	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/24/24 14:54
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500CL-E	**Analyst**	:	JER
Lab File ID	:	CL240924-A	**Instrument ID**	:	LACHAT3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	30.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	12.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:00
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	28.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	1.4	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	65.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 15:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	17.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975603-1	**Date Collected**	: NA
Client ID	: WG1975603-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 14:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975603-3	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8DDUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 16:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A1	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	25.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975605-1	**Date Collected**	: NA
Client ID	: WG1975605-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 14:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	ND	1.0	0.89	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975605-3	**Date Collected**	: 09/17/24 07:00
Client ID	: WG1975605-3 DUP	**Date Received**	: 09/19/24
Sample Location	:	**Date Analyzed**	: 09/24/24 15:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500CL-E	**Analyst**	: JER
Lab File ID	: CL240924-A	**Instrument ID**	: LACHAT3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	81.	1.0	0.89	

Sample Raw Data

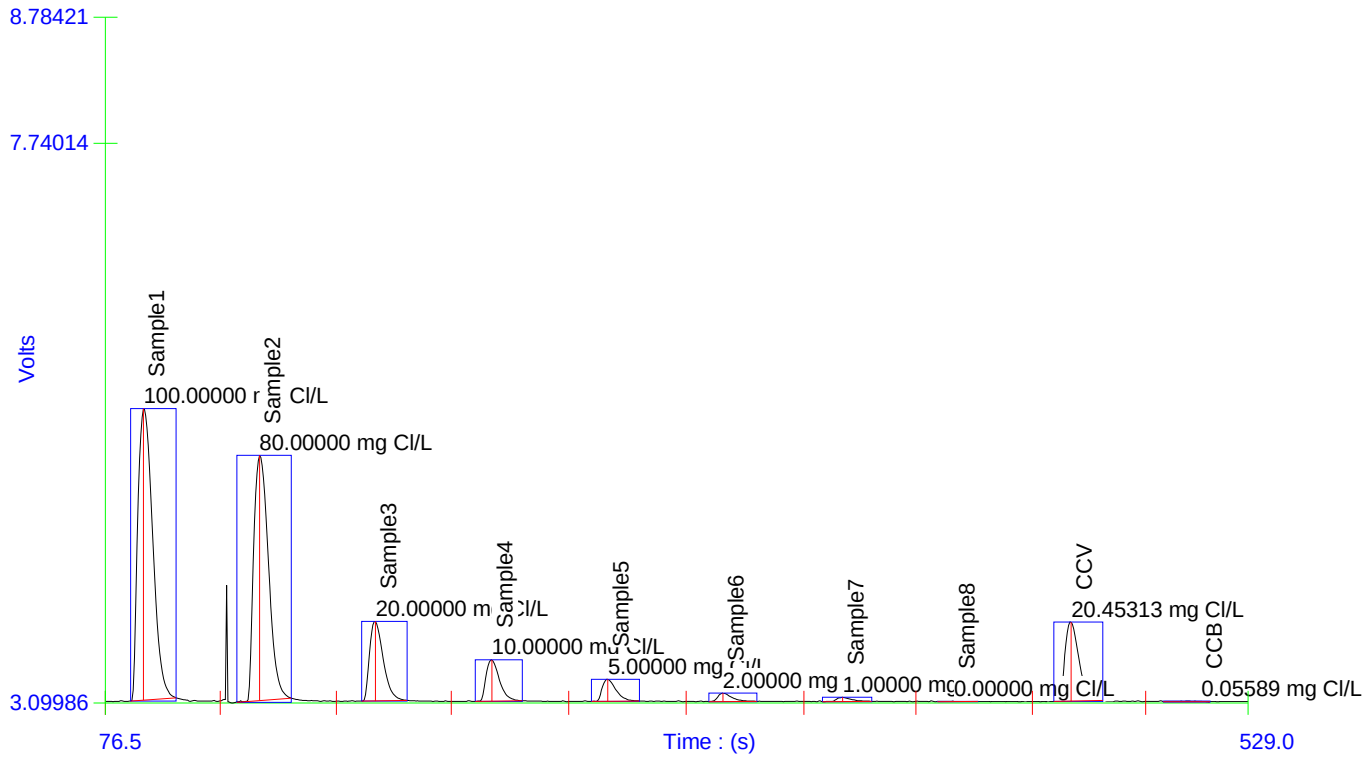
Author: Date : 9/24/2024

Original Run Filename: OM_9-24-2024_02-18-52PM.OMN Created: 9/24/2024 2:18:52 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_9-24-2024_02-18-52PM.OMN Last Modified: 9/24/2024 3:35:24 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

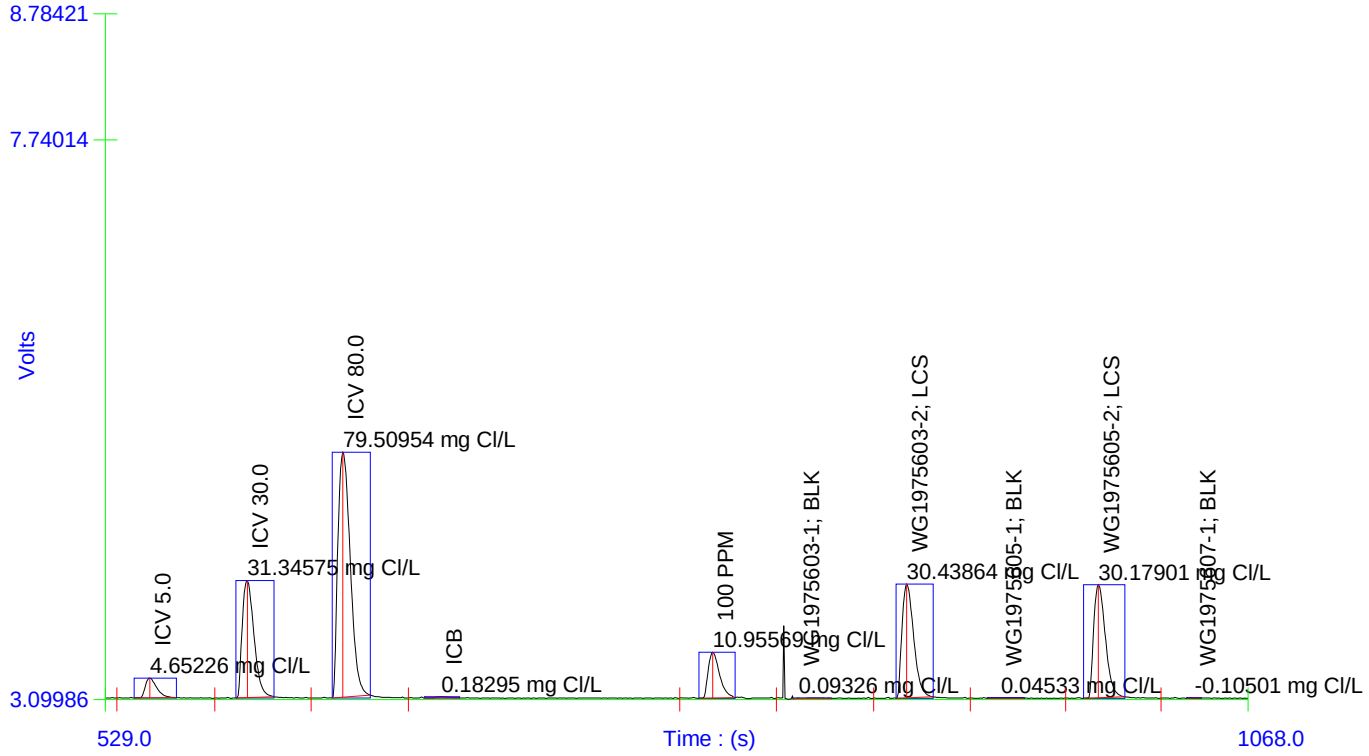
Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight	
Sample1	1	S1	100.00000				
Sample2	1	S2	80.00000				
Sample3	1	S3	20.00000				
Sample4	1	S4	10.00000				
Sample5	1	S5	5.00000				
Sample6	1	S6	2.00000				
Sample7	1	S7	1.00000				
Sample8	1	S9	0.00000				
CCV	1	S3	20.45313				
	Known Conc:		20.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S9	0.05589				
	Known Conc:		0.00000				
ICV 5.0	1	1	4.65226				93%
ICV 30.0	1	2	31.34575				104%
ICV 80.0	1	3	79.50954				99%
ICB	1	4	0.18295				
100 PPM	1	5	109.55693	10.00			110%
WG1975603-1; BLK	1	6	0.09326				
WG1975603-2; LCS	1	7	30.43864				101%
WG1975605-1; BLK	1	8	0.04533				
WG1975605-2; LCS	1	9	30.17901				101%
WG1975607-1; BLK	1	10	-0.10501				
CCV	1	S3	20.42749				
	Known Conc:		20.00000				
CCB	1	S9	-0.12979				
	Known Conc:		0.00000				
WG1975607-2; LCS	1	11	30.01072				100%
WG1975609-1; BLK	1	12	0.04316				
WG1975609-2; LCS	1	13	31.01538				103%
L2453611-01	1	14	55.97819				
L2453611-02	1	15	56.00747				
L2453658-03	1	16	2.38800				
L2453658-04	1	17	2.07644				
L2453658-05	1	18	1.24275				
L2453658-06	1	19	4.05900				
L2453658-07	1	20	0.76125	10.00			
CCV	1	S3	19.90346				
	Known Conc:		20.00000				
CCB	1	S9	-0.07218				
	Known Conc:		0.00000				
L2453658-08	1	21	43.83644				
L2453698-01	1	22	473.76559				
L2453698-02	1	23	471.19098				
L2453698-03	1	24	420.06787				
L2453698-05	1	25	347.15106				
L2453698-07	1	26	276.91528				
L2453698-08	1	27	267.44461				
L2453720-01	1	28	14.56301				
L2453720-02	1	29	30.36252				
WG1975603-3; DUP	1	30	25.59962	10.00			
CCV	1	S3	20.43721				
	Known Conc:		20.00000				
CCB	1	S9	0.05201				
	Known Conc:		0.00000				
WG1975603-4; MS	1	31	47.92604				
L2453720-03	1	32	12.04614				
L2453720-04	1	33	0.10803				

L2453720-06	1	34	27.88732			
L2453720-07	1	35	1.43689			
L2453720-08	1	36	65.27701			
L2453720-09	1	37	17.37411			
L2453890-01	1	38	83.56815			
WG1975605-3; DUP	1	39	81.22638			
WG1975605-4; MS	1	40	105.81803	10.00		
CCV	1	S3	19.74844			
	Known Conc:		20.00000			
CCB	1	S9	-0.06186			
	Known Conc:		0.00000			
L2453893-01	1	41	11.50934			
L2453899-01	1	42	4.99773			
L2453900-01	1	43	5.16161			
L2453908-01	1	44	7.50743			
L2453913-01	1	45	11.92326			
L2453934-07	1	46	55.73173			
L2454016-01	1	47	19.89683			
L2454016-02	1	48	38.45193			
L2454016-03	1	49	50.47604			
L2454016-04	1	50	108.87576	10.00		
CCV	1	S3	19.29436			
	Known Conc:		20.00000			
CCB	1	S9	0.00193			
	Known Conc:		0.00000			
L2454016-05	1	51	169.80553			
L2454016-06	1	52	137.68686			
L2454016-07	1	53	140.09534			
L2454016-08	1	54	99.73924			
L2454059-01	1	55	105.38631			
L2454059-02	1	56	13.68558			
L2454068-01	1	57	432.44641			
L2454068-03	1	58	223.26320			
L2454068-07	1	59	221.73396			
L2454068-08	1	60	130.90094	10.00		
CCV	1	S3	20.29837			
	Known Conc:		20.00000			
CCB	1	S9	0.01814			
	Known Conc:		0.00000			
~~L2454072-01~~	~~1~~	~~61~~	~~53.07846~~			
~~L2454424-01~~	~~1~~	~~62~~	~~102.82194~~			
~~L2454424-02~~	~~1~~	~~63~~	~~90.09927~~			
~~L2454424-03~~	~~1~~	~~64~~	~~110.00629~~			
~~L2454424-04~~	~~1~~	~~65~~	~~57.20277~~			
~~L2454424-05~~	~~1~~	~~66~~	~~104.35820~~			

Channel 1 (Chloride) - Set: 1 / 9

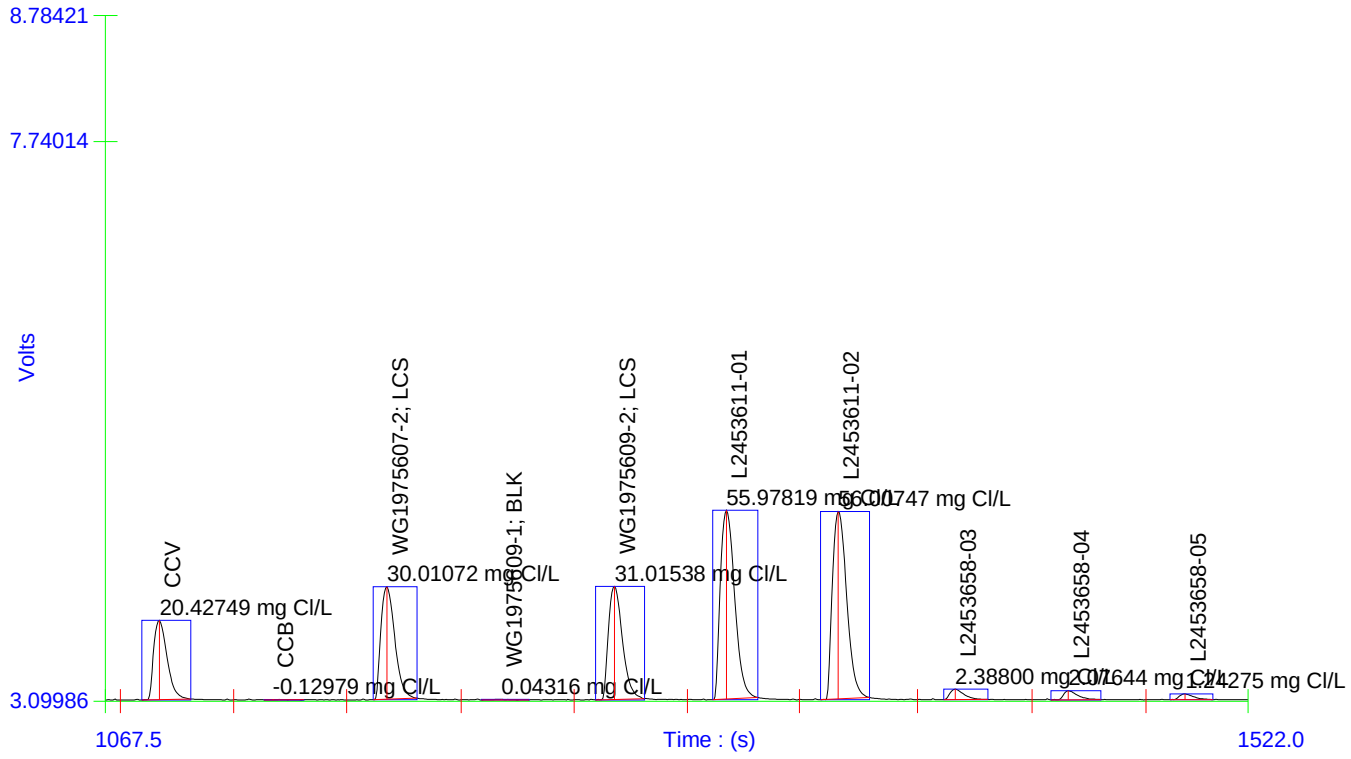


Channel 1 (Chloride) - Set: 2 / 9



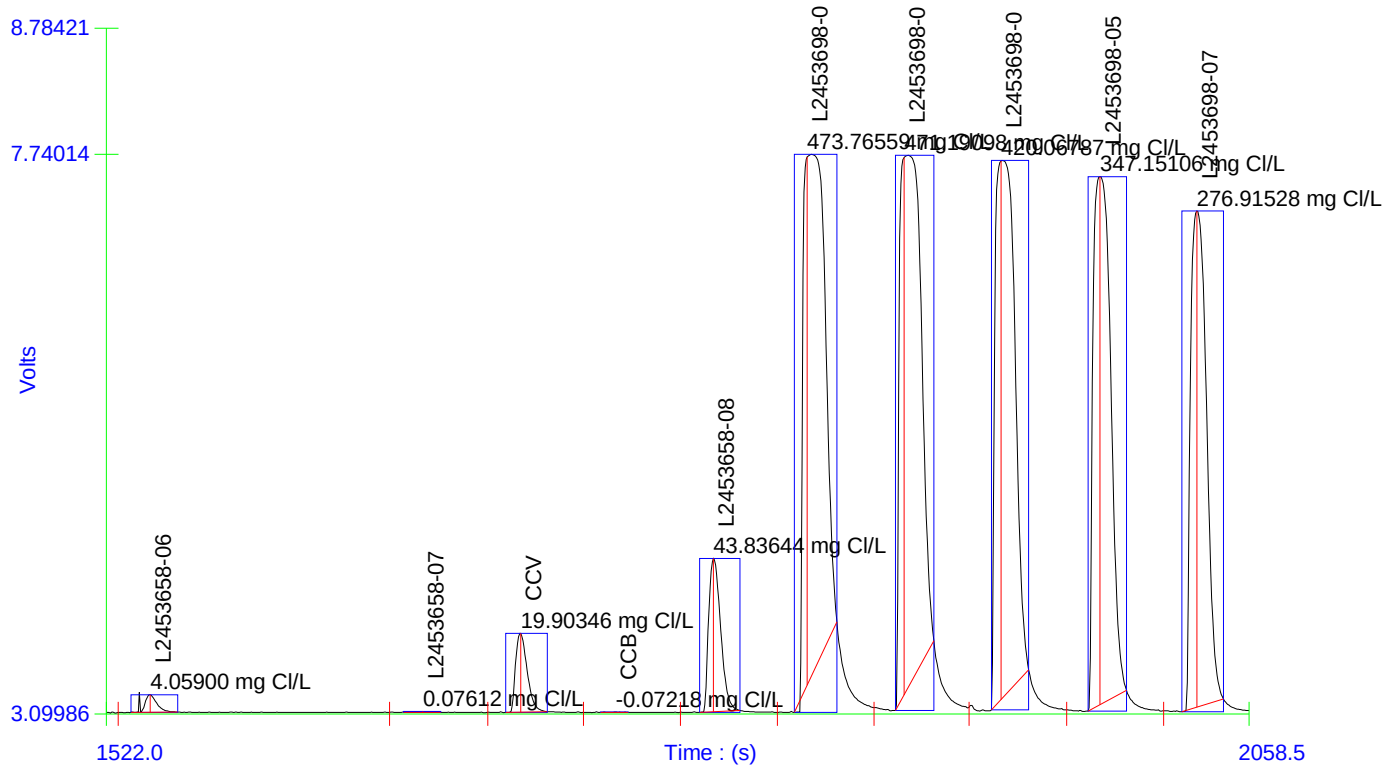
Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 3 / 9

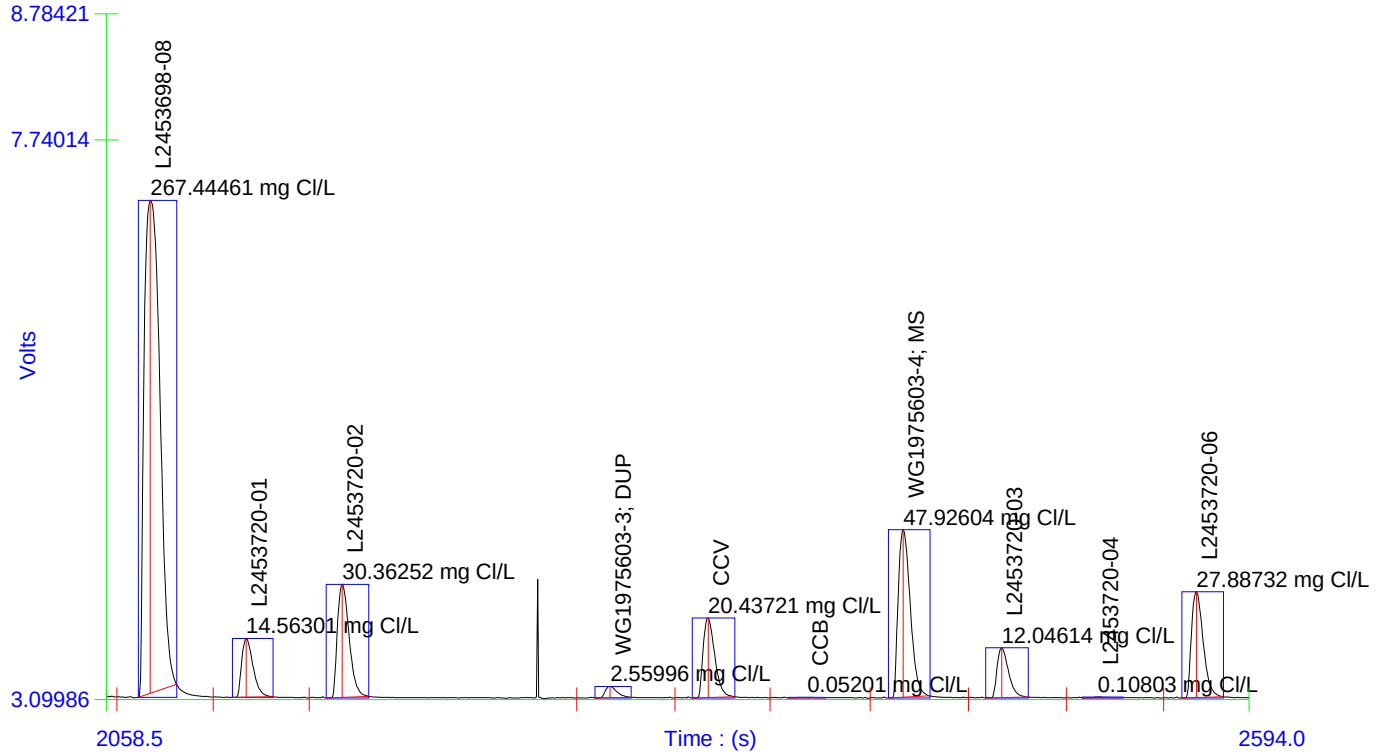


Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 4 / 9

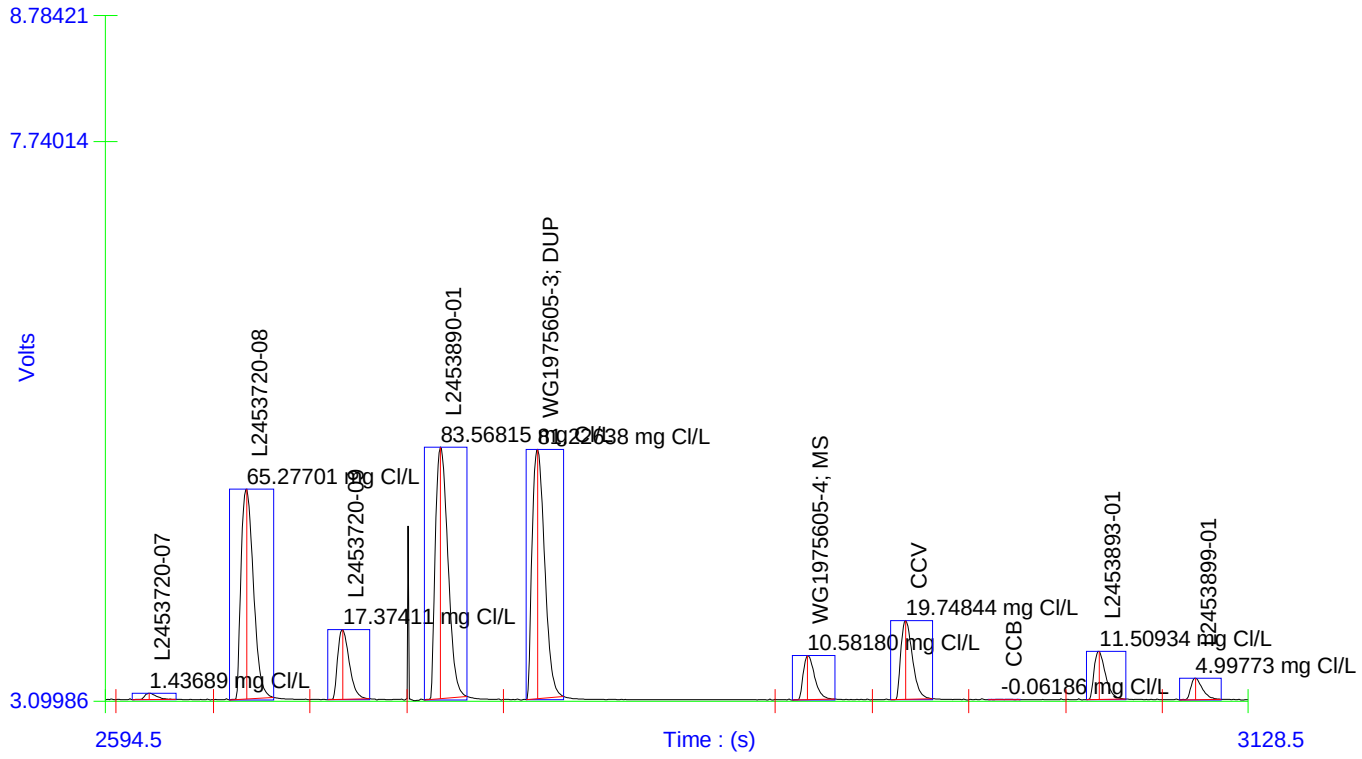


Channel 1 (Chloride) - Set: 5 / 9



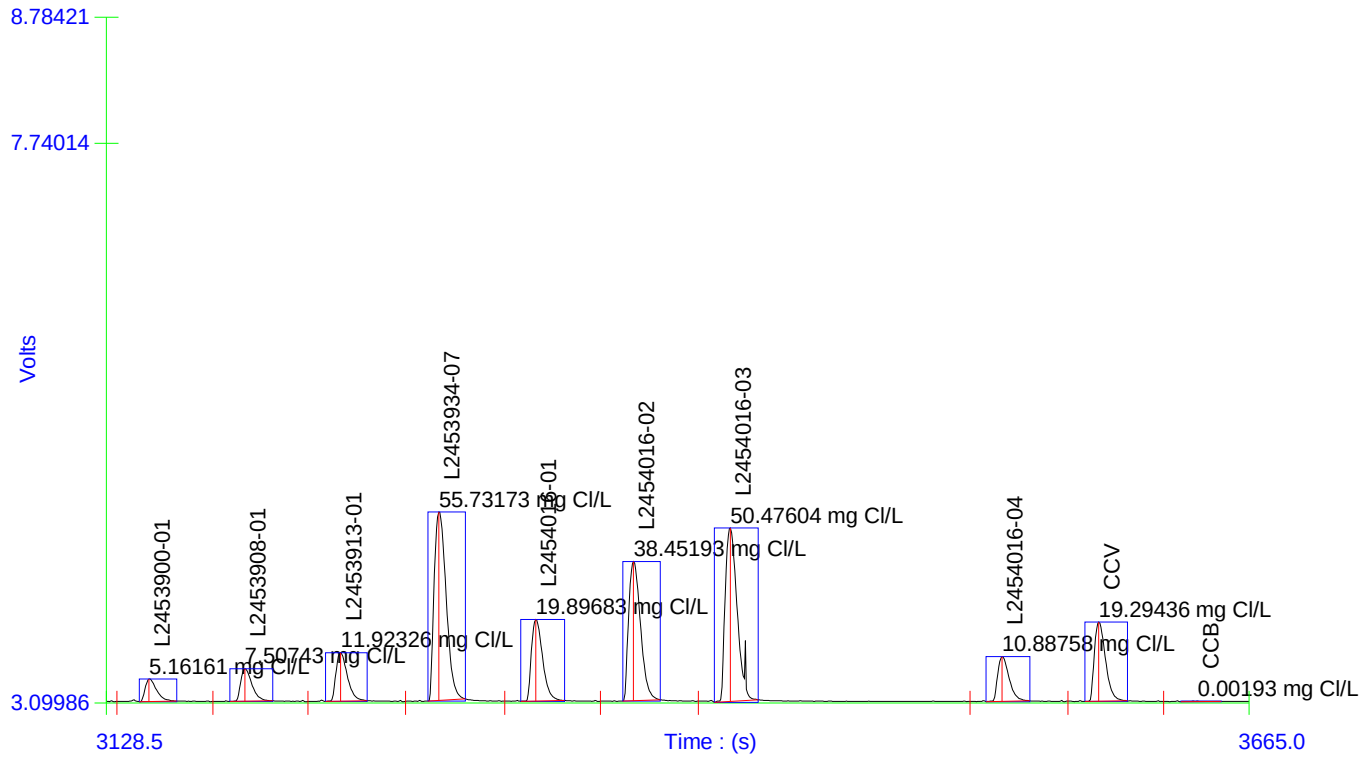
Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 6 / 9

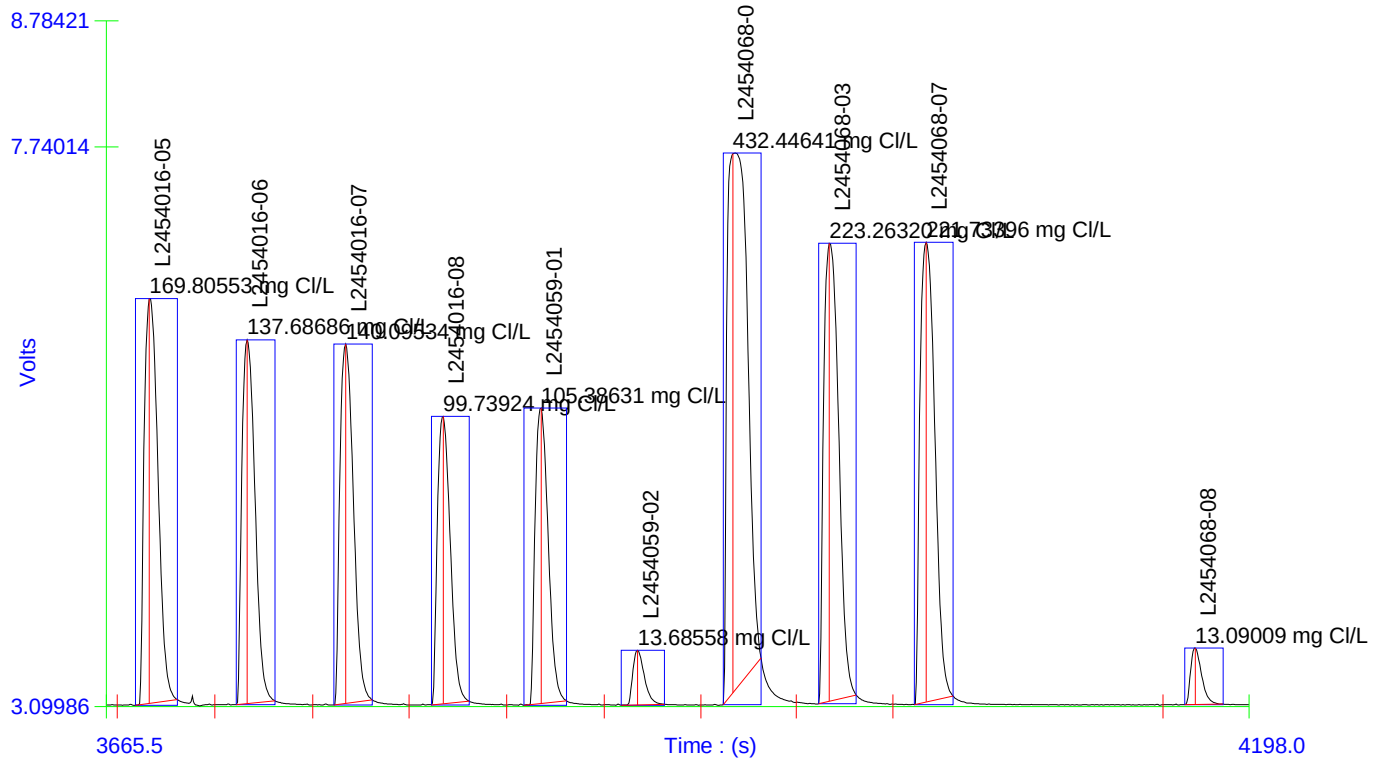


Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 7 / 9



Channel 1 (Chloride) - Set: 8 / 9



Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 9 / 9

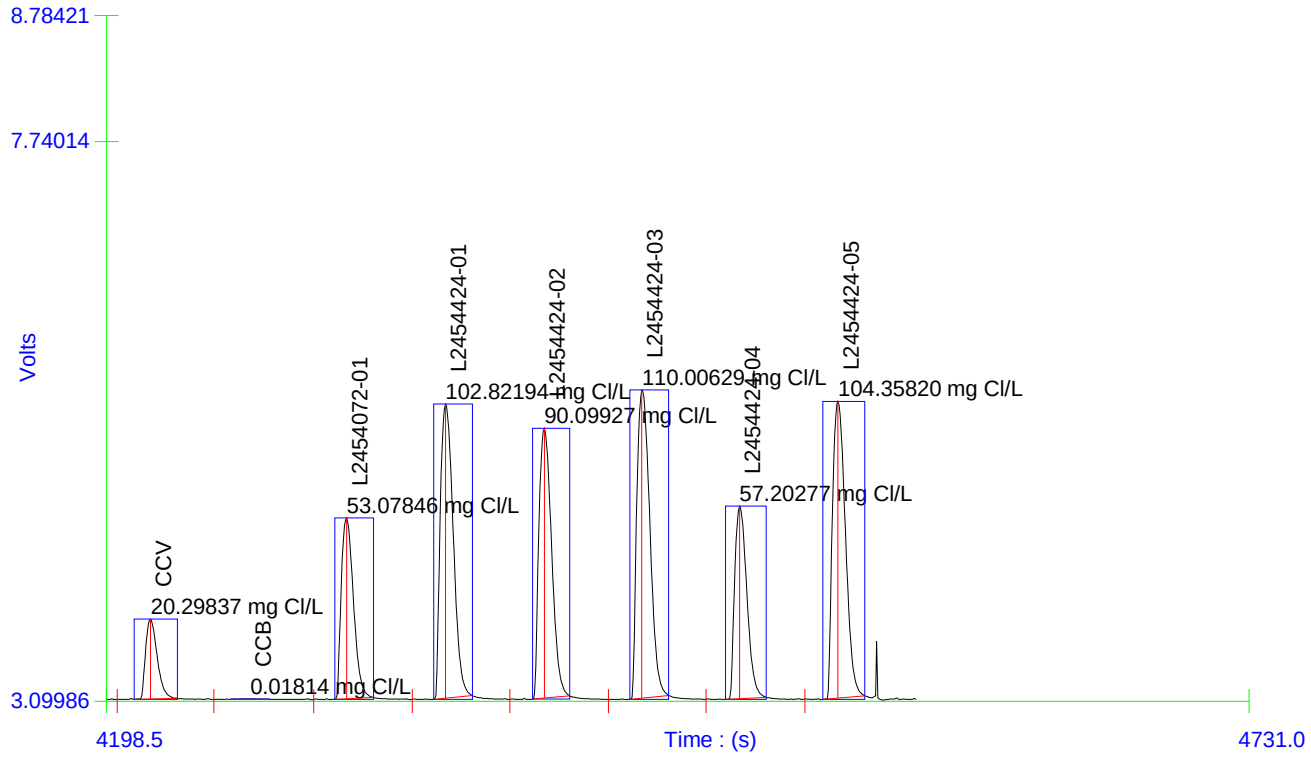
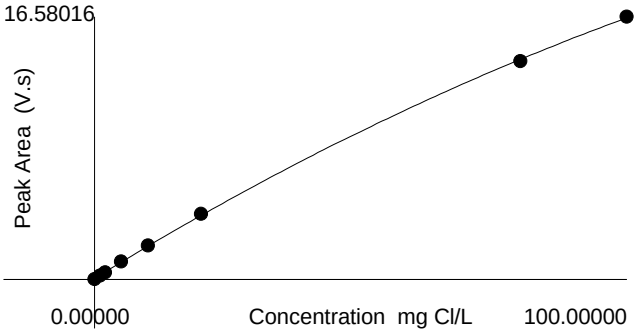


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	16.58016	2.41556	0.0	-0.5	100.19966	9/24/2024	2:20:12 PM
2	80.00000	1	13.76873	2.03125	0.0	0.9	79.68999	9/24/2024	2:20:57 PM
3	20.00000	1	4.13464	0.65944	0.0	-2.5	20.22814	9/24/2024	2:21:43 PM
4	10.00000	1	2.13002	0.34208	0.0	-1.7	9.96101	9/24/2024	2:22:29 PM
5	5.00000	1	1.13749	0.18284	0.0	-3.9	5.14596	9/24/2024	2:23:15 PM
6	2.00000	1	0.43608	0.06925	0.0	9.8	1.85041	9/24/2024	2:24:01 PM
7	1.00000	1	0.25041	0.03588	0.0	10.0	0.99294	9/24/2024	2:24:48 PM
8	0.00000	1	0.01878	0.00245			-0.06812	9/24/2024	2:25:33 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00042 * Conc^2 + 0.20656 * Conc + 0.07210
Conc = 0.09024 * Area^2 + 4.55642 * Area - 0.15370
Correlation Coefficient (r) = 0.99993

Weighting : None

Author: Date : 9/24/2024

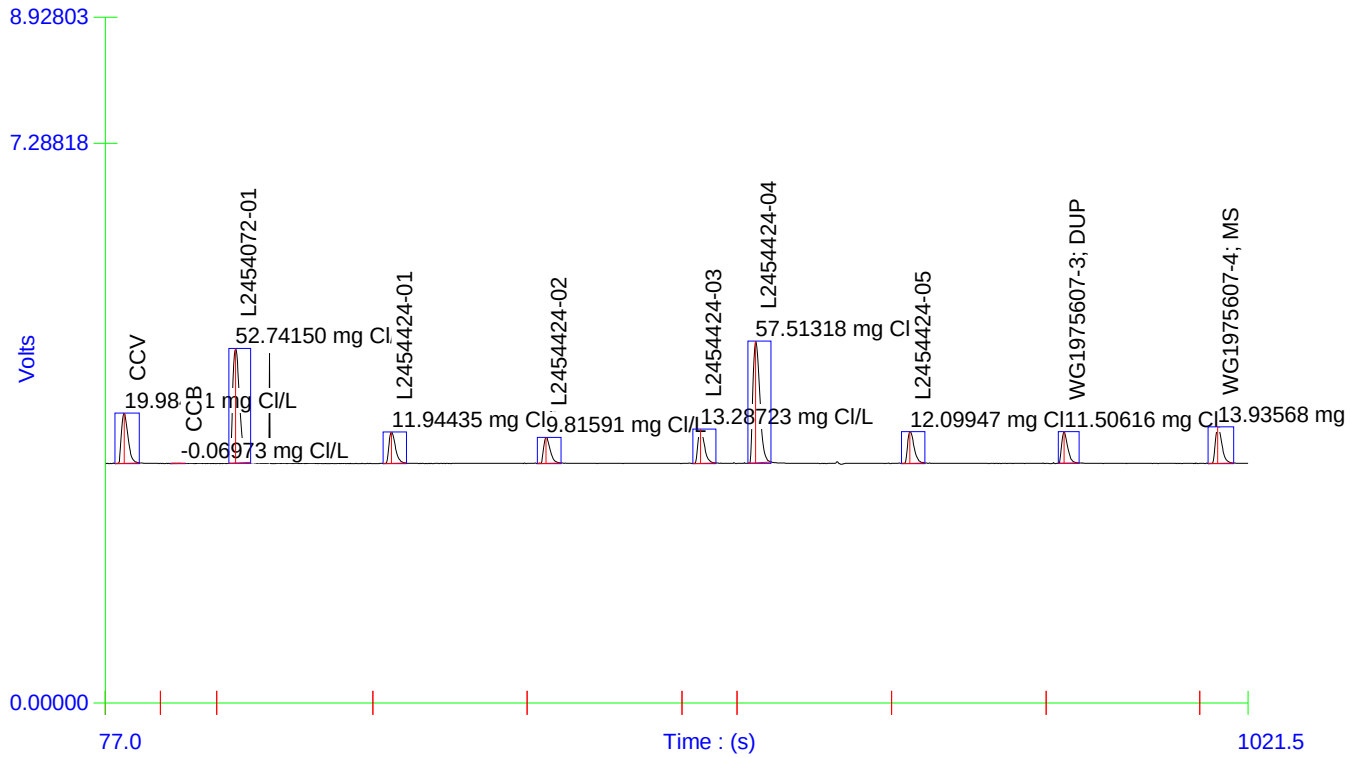
Original Run Filename: OM_9-24-2024_03-57-05PM.OMN Created: 9/24/2024 3:57:05 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_9-24-2024_03-57-05PM.OMN Last Modified: 9/24/2024 6:05:04 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	19.98401			
	Known Conc:		20.00000			
CCB	1	S9	-0.06973			
	Known Conc:		0.00000			
	Calibration:		Table/Fig. : 1			
L2454072-01	1	61	52.74150			
L2454424-01	1	62	119.44351	10.00		
L2454424-02	1	63	98.15907	10.00		
L2454424-03	1	64	132.87230	10.00		
L2454424-04	1	65	57.51318			
L2454424-05	1	66	120.99467	10.00		
WG1975607-3; DUP	1	67	115.06158	10.00		
WG1975607-4; MS	1	68	139.35683	10.00		
L2454424-06	1	69	104.55173			
L2453990-01	1	70	32.89902	10.00		
CCV	1	S3	19.64561			
	Known Conc:		20.00000			
CCB	1	S9	-0.00104			
	Known Conc:		0.00000			
L2453990-02	1	71	171.42340			
L2453990-03	1	72	131.36028			
L2453990-04	1	73	192.93999			
L2453990-05	1	74	118.73965			
L2453990-06	1	75	209.11836			
L2453990-07	1	76	21.27830			
L2453990-08	1	77	120.07278			
L2453990-09	1	78	171.67105			
L2454036-01	1	79	77.02557			
L2454036-02	1	80	96.83529	10.00		
CCV	1	S3	19.68765			
	Known Conc:		20.00000			
CCB	1	S9	0.04321			
	Known Conc:		0.00000			
L2454036-03	1	81	87.34564			
L2454036-04	1	82	109.64066			
L2454036-05	1	83	149.63013			
WG1975609-3; DUP	1	84	149.22029			
WG1975609-4; MS	1	85	158.48325			
L2454036-06	1	86	82.31231			
L2454036-07	1	87	81.84945			
L2454036-08	1	88	200.98877			
L2454036-09	1	89	0.42242			
L2454036-10	1	90	0.04780			
CCV	1	S3	19.91901			
	Known Conc:		20.00000			
CCB	1	S9	-0.01661			
	Known Conc:		0.00000			
L2454218-01	1	91	201.37024			
L2453698-01	1	22	2809.75562	10.00		
L2453658-07	1	20	2.13706			
L2453698-02	1	23	2501.56055	10.00		
L2453698-03	1	24	1758.18420	10.00		
L2453698-05	1	25	1031.28650	10.00		
L2453698-07	1	26	591.13251	10.00		
L2453698-08	1	27	558.07471	10.00		
WG1975603-3; DUP	1	30	24.98701			
L2453720-01	1	28	11.91589			
CCV	1	S3	19.95908			

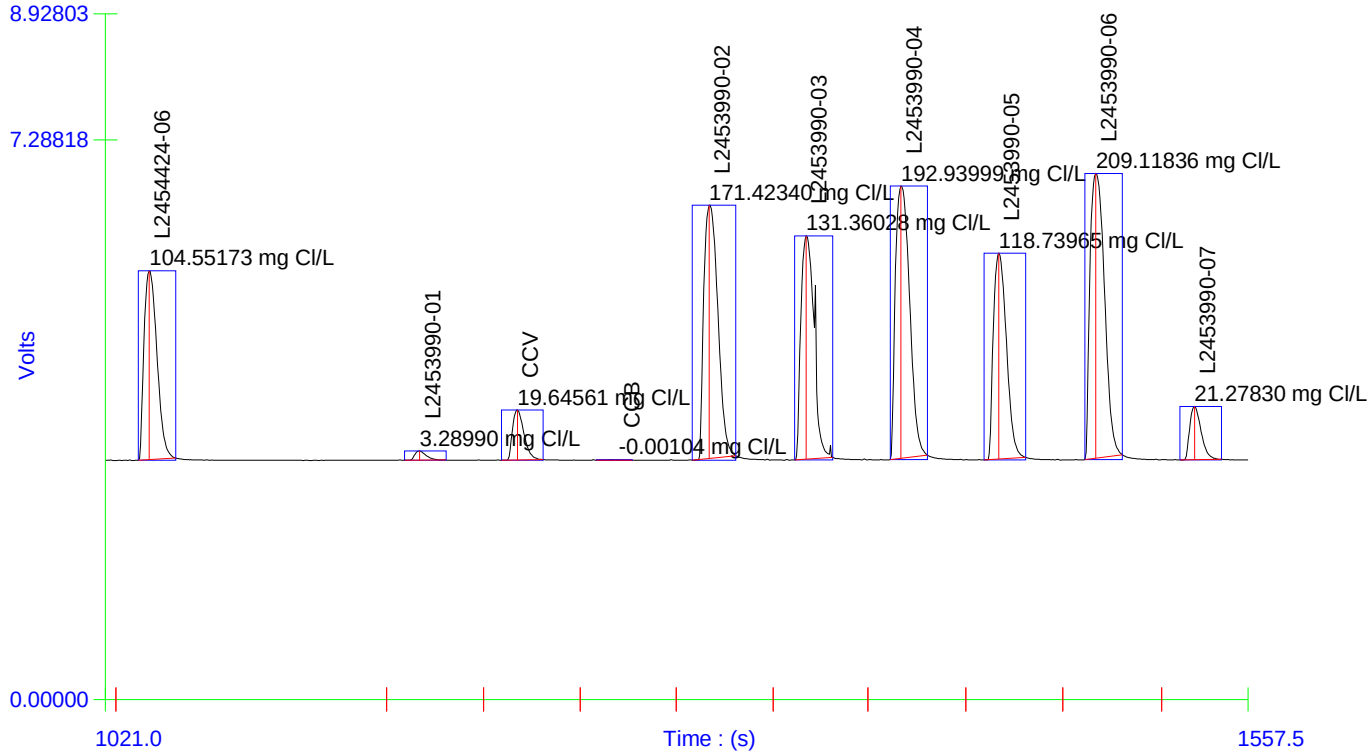
		Known Conc:	20.00000			
CCB	1	S9	-0.01175			
		Known Conc:	0.00000			
L2454016-05	1	51	261.14792	10.00		
L2454016-06	1	52	189.98489	10.00		
L2454016-07	1	53	184.18063	10.00		
L2454059-01	1	55	117.06990	10.00		
L2454016-08	1	54	111.59514	10.00		
L2454059-02	1	56	12.91704			
L2454068-01	1	57	1834.12476	10.00		
L2454068-03	1	58	391.53143	10.00		
L2454068-07	1	59	393.83075	10.00		
L2454424-06	1	69	104.37669			
CCV	1	S3	20.20771			
		Known Conc:	20.00000			
CCB	1	S9	0.01809			
		Known Conc:	0.00000			
L2453990-01	1	70	38.33253			
L2453990-02	1	71	260.57333	10.00		
L2453990-03	1	72	178.54370	10.00		
L2453990-04	1	73	315.70367	10.00		
L2453990-05	1	74	145.68407	10.00		
L2453990-06	1	75	363.24591	10.00		
L2453990-08	1	77	150.04947	10.00		
L2453990-09	1	78	268.16455	10.00		
L2453990-07	1	76	20.78004			
L2454036-01	1	79	76.02241			
CCV	1	S3	20.02481			
		Known Conc:	20.00000			
CCB	1	S9	0.00980			
		Known Conc:	0.00000			
L2454036-04	1	82	128.25919	10.00		
L2454036-05	1	83	203.91418	10.00		
WG1975609-3; DUP	1	84	210.60504	10.00		
WG1975609-4; MS	1	85	220.63545	10.00		
L2454036-08	1	88	333.35385	10.00		
L2454036-06	1	86	81.84834			
L2454218-01	1	91	320.68127	10.00		
L2453698-01	1	22	5847.03809	100.00		
L2453698-02	1	23	4614.41895	100.00		
L2453698-03	1	24	2466.55151	100.00		
CCV	1	S3	20.26883			
		Known Conc:	20.00000			
CCB	1	S9	-0.03126			
		Known Conc:	0.00000			
L2453698-05	1	25	1070.29858	100.00		
L2454059-02	1	56	13.34701			
L2454068-01	1	57	2663.49072	100.00		
L2454424-06	1	69	119.28201	10.00		
CCV	1	S3	19.78934			
		Known Conc:	20.00000			
CCB	1	S9	-0.01326			
		Known Conc:	0.00000			

Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 1 / 10



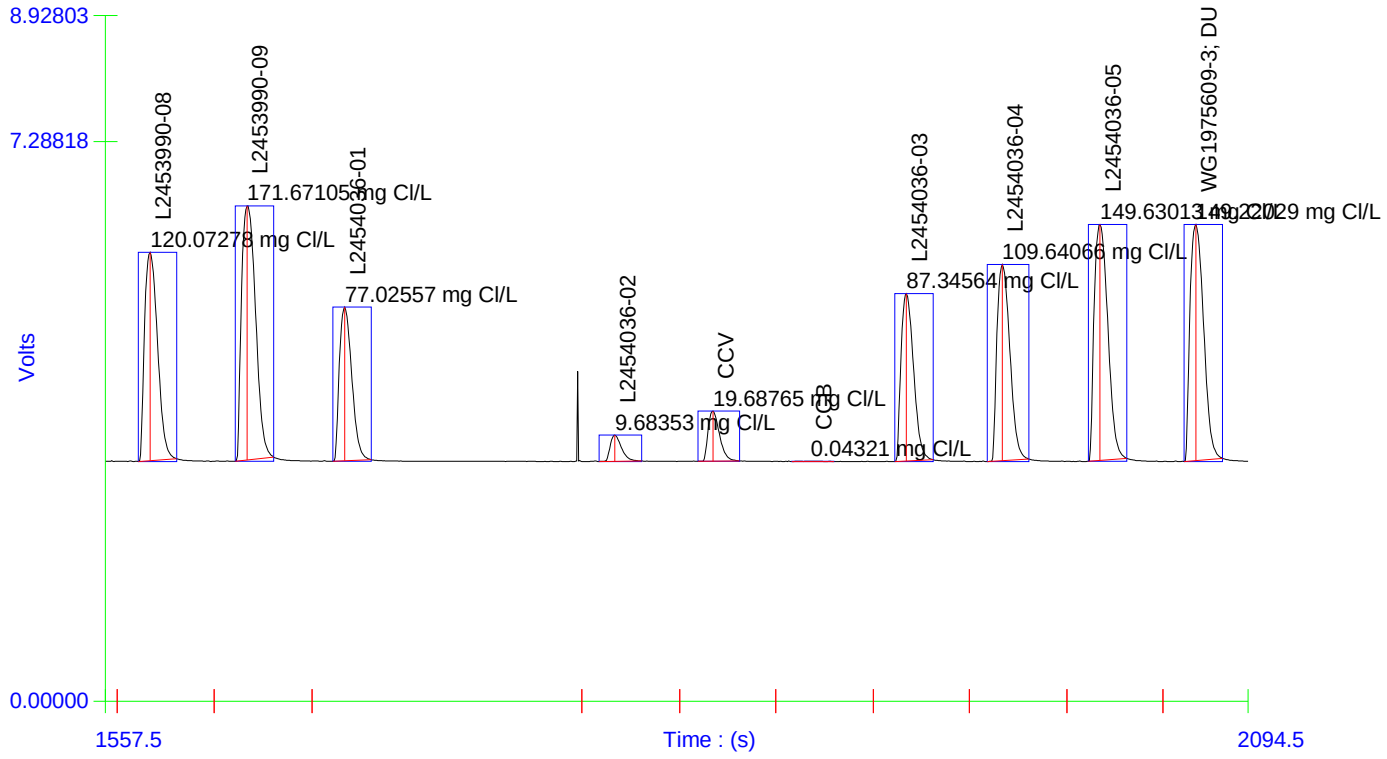
Channel 1 (Chloride) - Set: 2 / 10



Author:

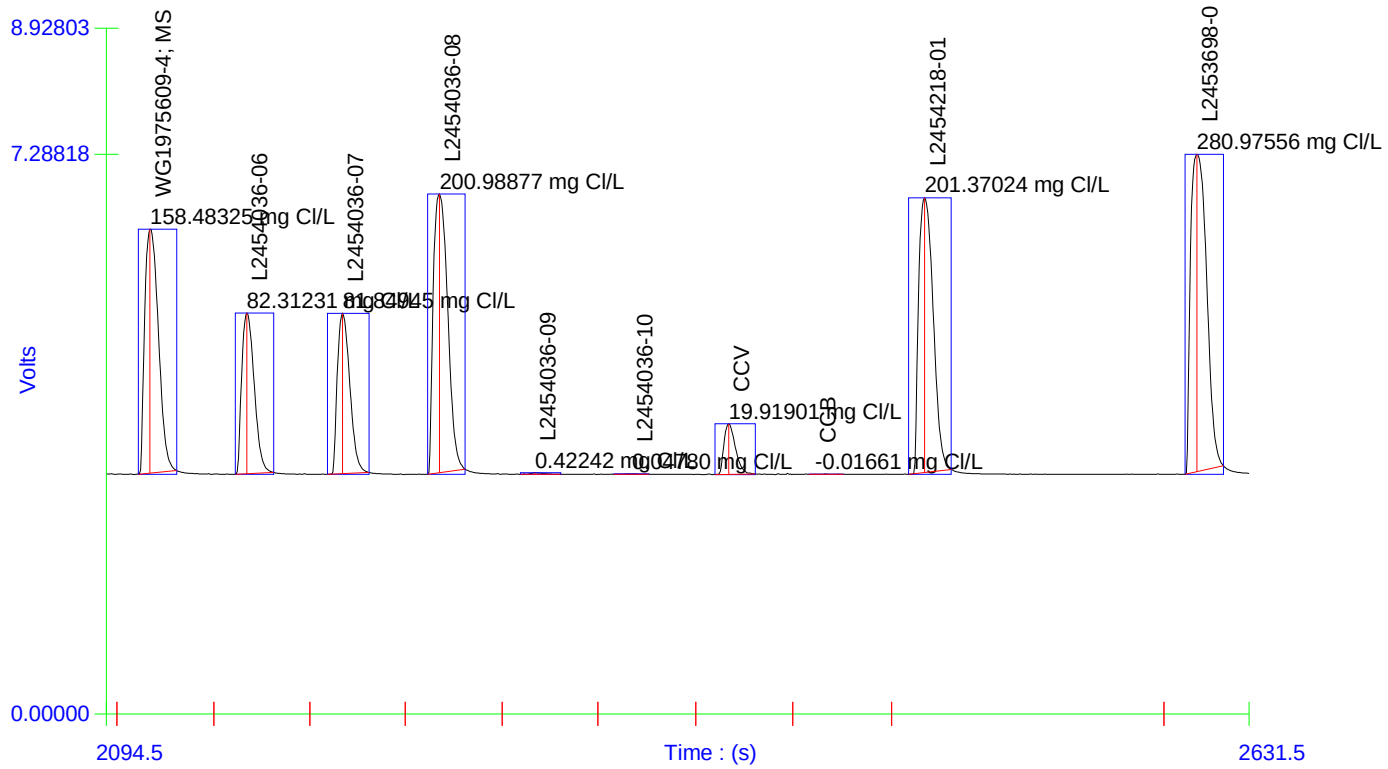
Date : 9/24/2024

Channel 1 (Chloride) - Set: 3 / 10

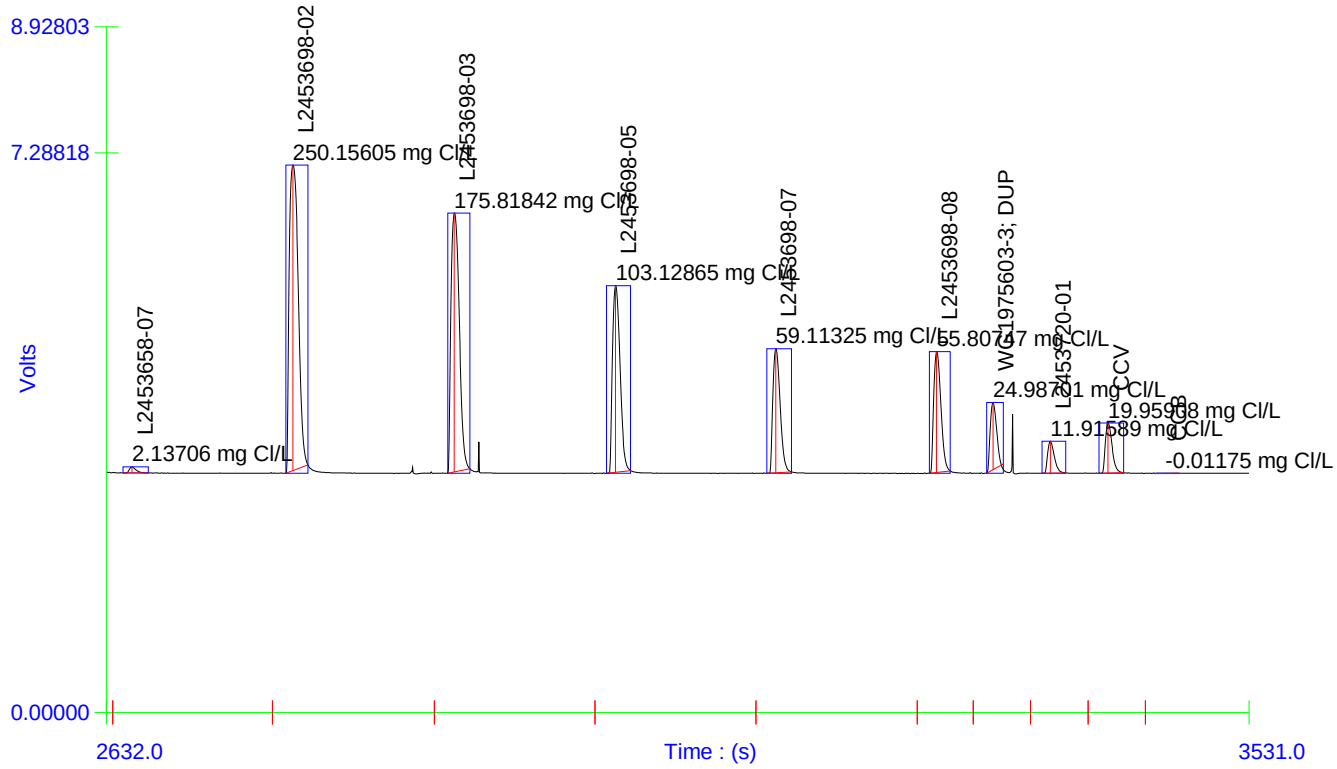


Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 4 / 10



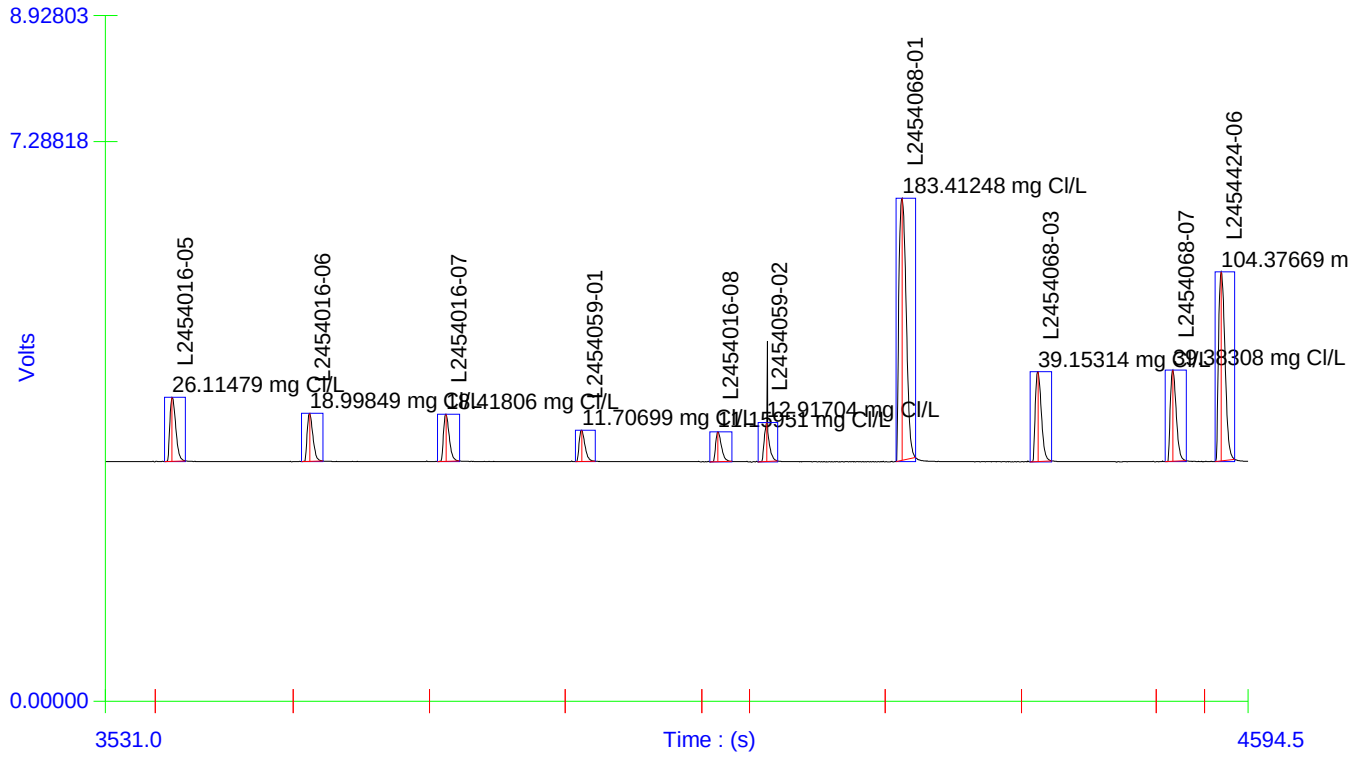
Channel 1 (Chloride) - Set: 5 / 10



Author:

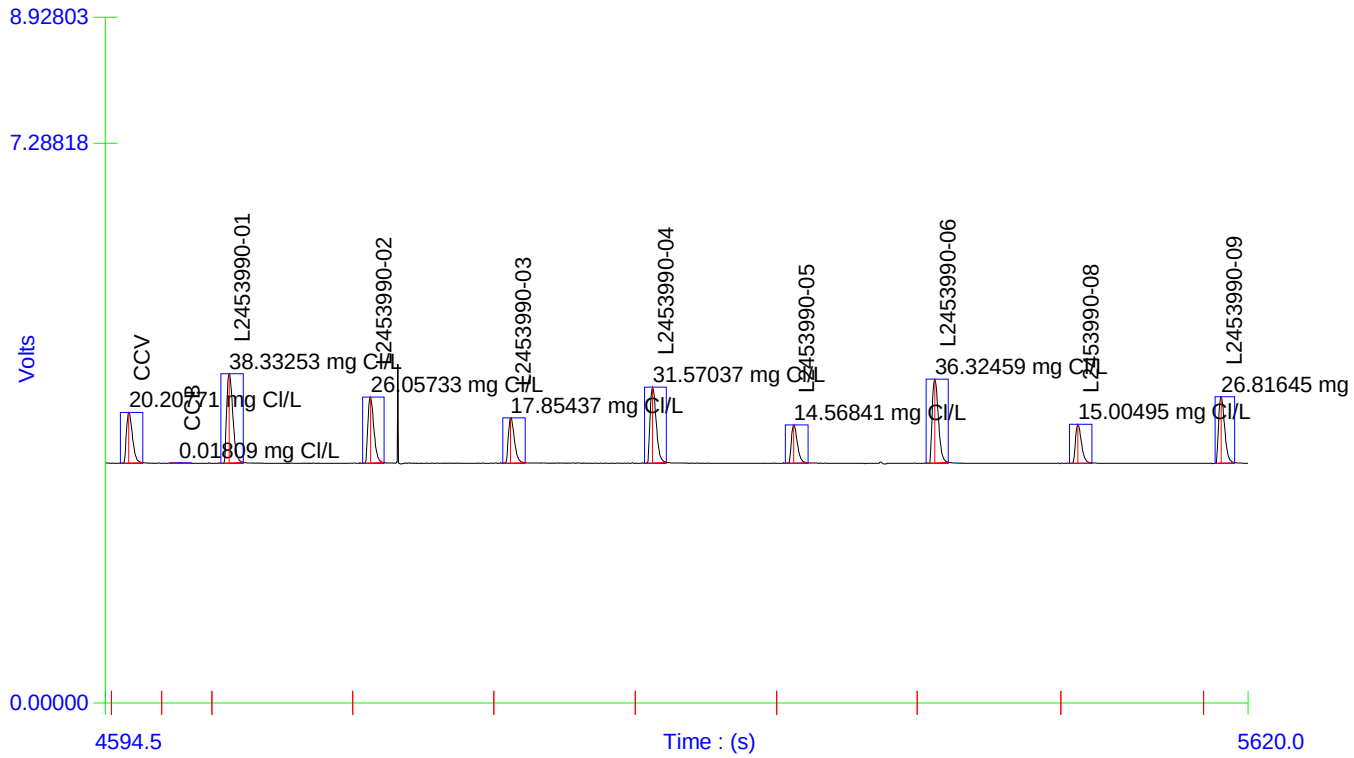
Date : 9/24/2024

Channel 1 (Chloride) - Set: 6 / 10

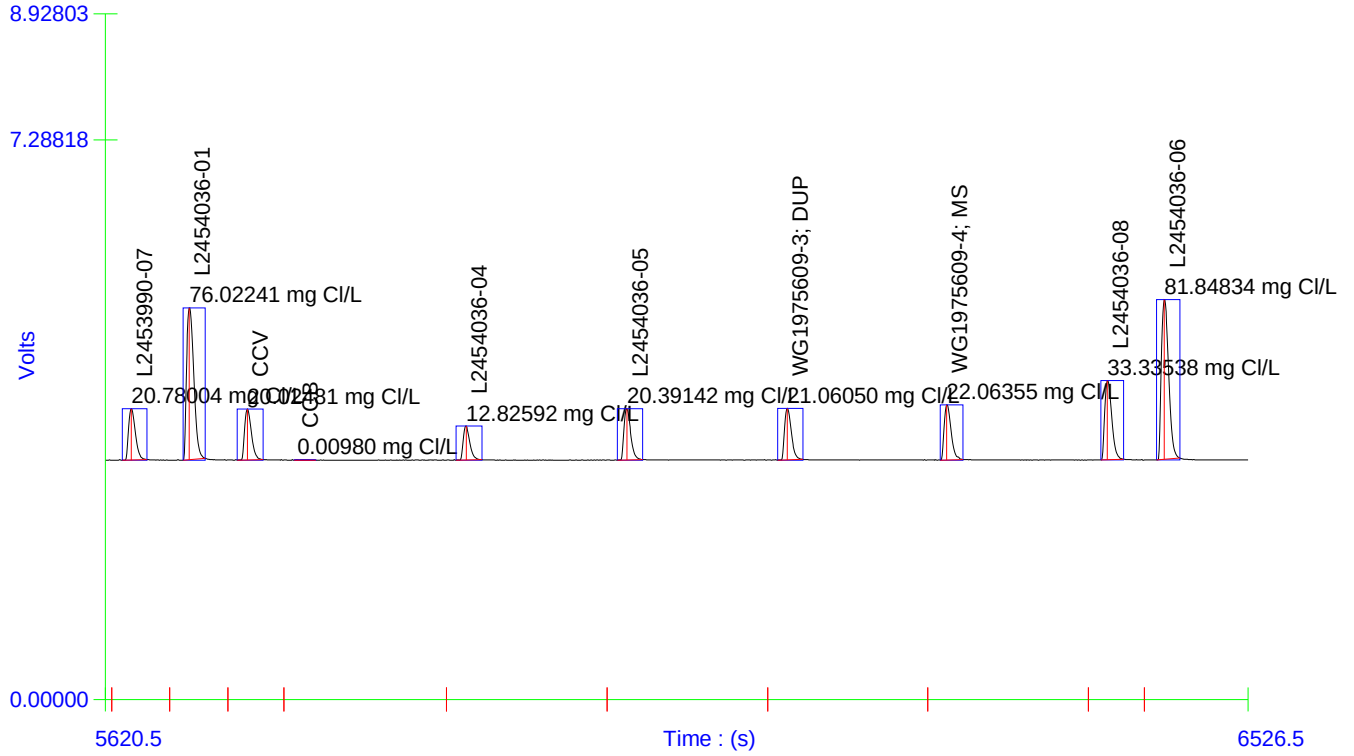


Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 7 / 10



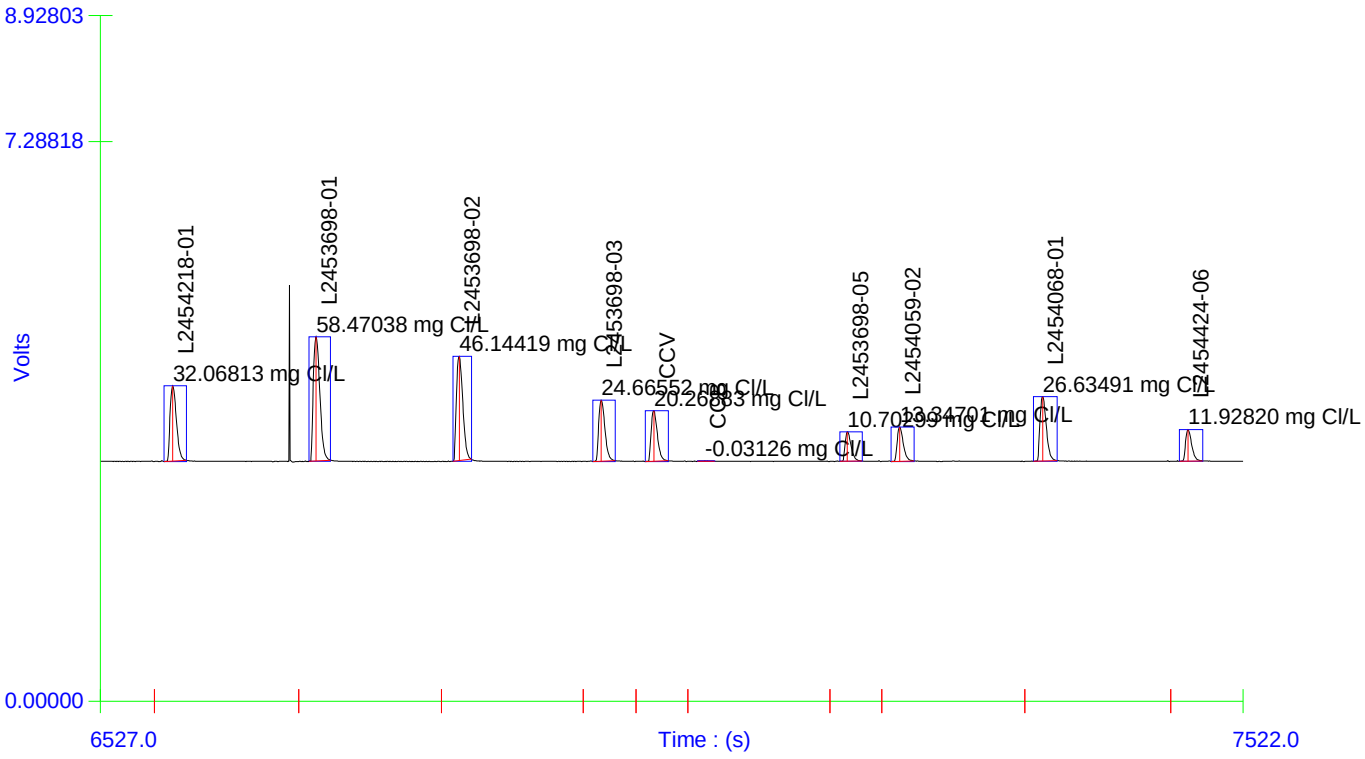
Channel 1 (Chloride) - Set: 8 / 10



- 7 -

Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 9 / 10



Author: Date : 9/24/2024

Channel 1 (Chloride) - Set: 10 / 10

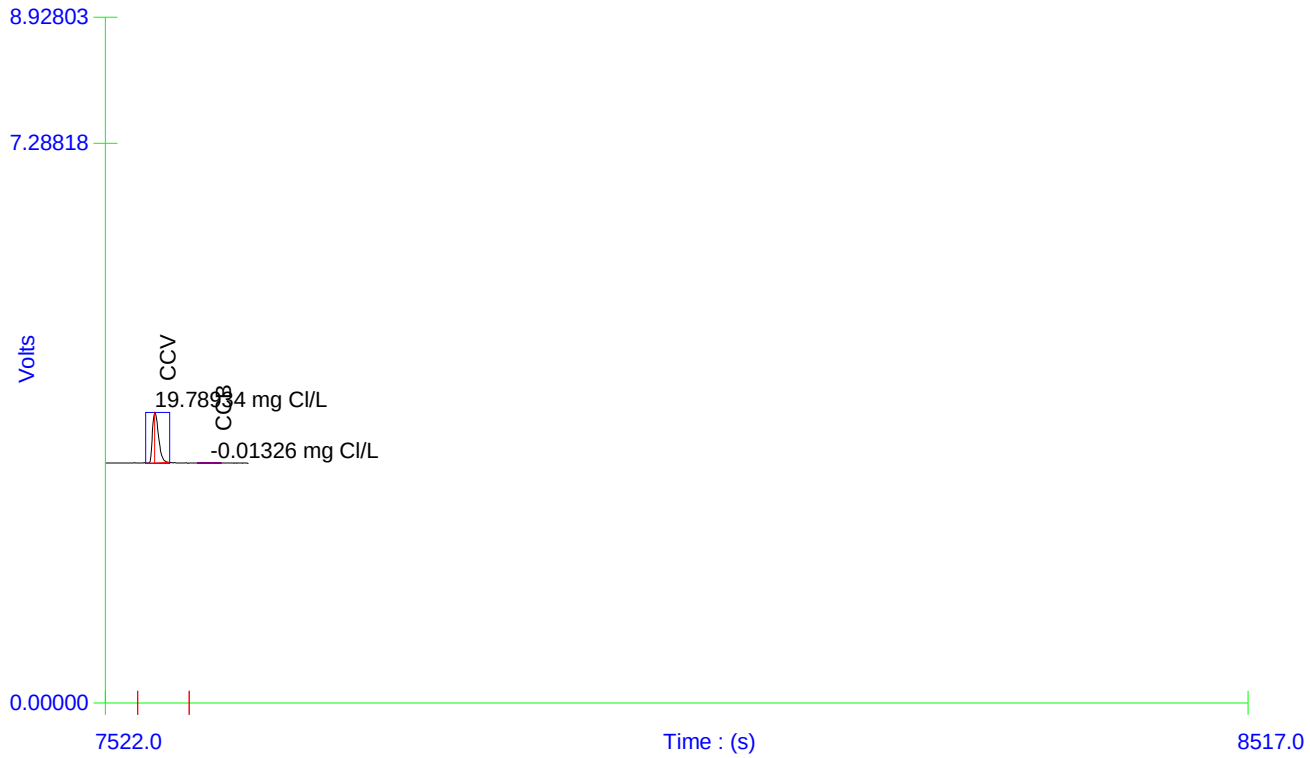
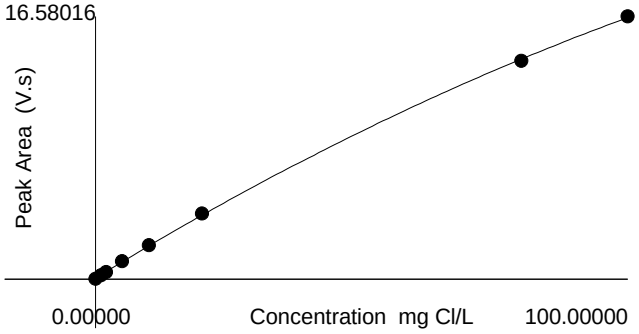


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	16.58016	2.41556	0.0	-0.5	100.19966	9/24/2024	2:20:12 PM
2	80.00000	1	13.76873	2.03125	0.0	0.9	79.68999	9/24/2024	2:20:57 PM
3	20.00000	1	4.13464	0.65944	0.0	-2.5	20.22814	9/24/2024	2:21:43 PM
4	10.00000	1	2.13002	0.34208	0.0	-1.7	9.96101	9/24/2024	2:22:29 PM
5	5.00000	1	1.13749	0.18284	0.0	-3.9	5.14596	9/24/2024	2:23:15 PM
6	2.00000	1	0.43608	0.06925	0.0	9.8	1.85041	9/24/2024	2:24:01 PM
7	1.00000	1	0.25041	0.03588	0.0	10.0	0.99294	9/24/2024	2:24:48 PM
8	0.00000	1	0.01878	0.00245			-0.06812	9/24/2024	2:25:33 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00042 * Conc^2 + 0.20656 * Conc + 0.07210
Conc = 0.09024 * Area^2 + 4.55642 * Area - 0.15370
Correlation Coefficient (r) = 0.99993

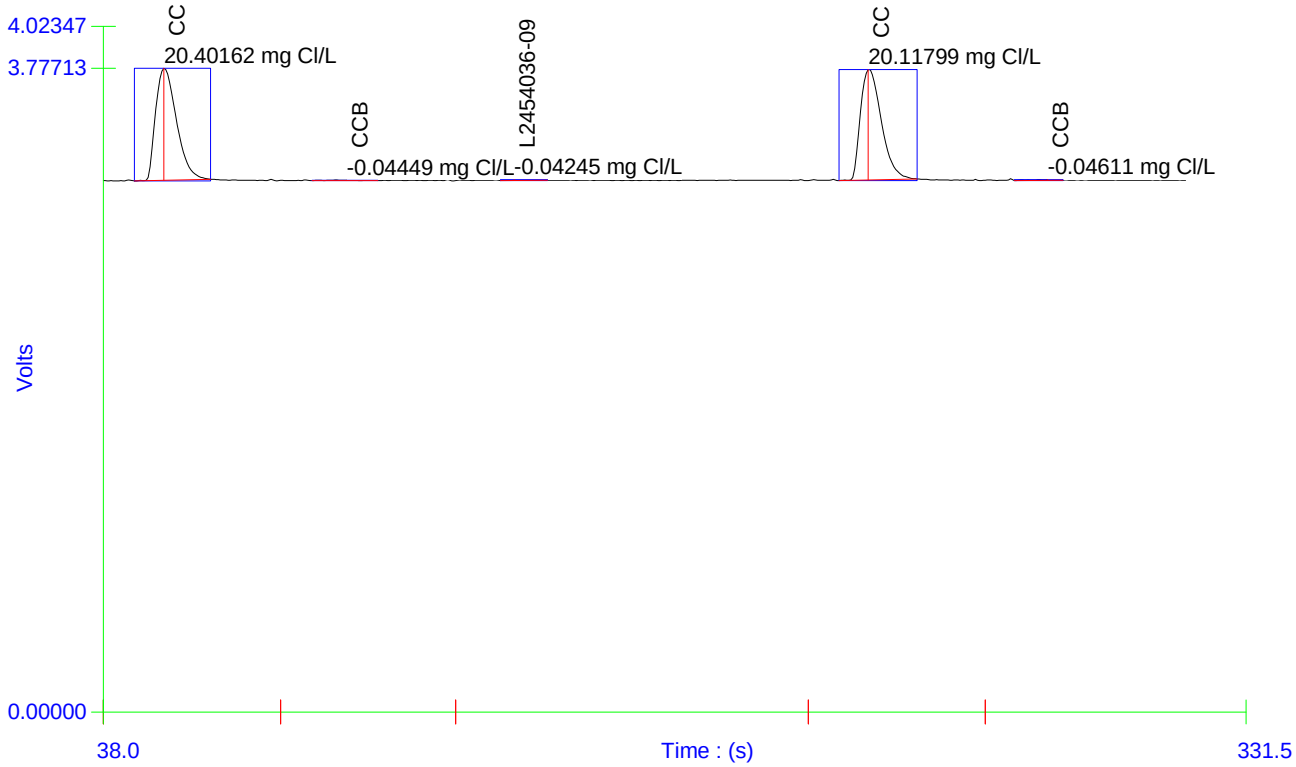
Weighting : None

Author: Date : 9/24/2024

Original Run Filename: OM_9-24-2024_06-10-49PM.OMN Created: 9/24/2024 6:10:49 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_9-24-2024_06-10-49PM.OMN Last Modified: 9/24/2024 6:16:08 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride-CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	20.40162			
	Known Conc:		20.00000			
CCB	1	S9	-0.04449			
	Known Conc:		0.00000			
	Calibration:		Table/Fig. : 1			
L2454036-09	1	89	-0.04245			
CCV	1	S3	20.11799			
	Known Conc:		20.00000			
CCB	1	S9	-0.04611			
	Known Conc:		0.00000			

Channel 1 (Chloride) - Set: 1 / 1

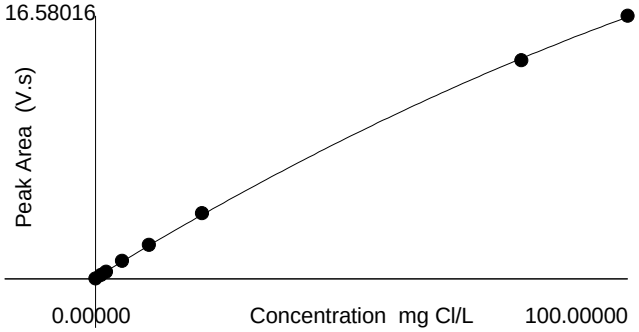


Author: Date : 9/24/2024

Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	16.58016	2.41556	0.0	-0.5	100.19966	9/24/2024	2:20:12 PM
2	80.00000	1	13.76873	2.03125	0.0	0.9	79.68999	9/24/2024	2:20:57 PM
3	20.00000	1	4.13464	0.65944	0.0	-2.5	20.22814	9/24/2024	2:21:43 PM
4	10.00000	1	2.13002	0.34208	0.0	-1.7	9.96101	9/24/2024	2:22:29 PM
5	5.00000	1	1.13749	0.18284	0.0	-3.9	5.14596	9/24/2024	2:23:15 PM
6	2.00000	1	0.43608	0.06925	0.0	9.8	1.85041	9/24/2024	2:24:01 PM
7	1.00000	1	0.25041	0.03588	0.0	10.0	0.99294	9/24/2024	2:24:48 PM
8	0.00000	1	0.01878	0.00245			-0.06812	9/24/2024	2:25:33 PM

Figure : 1 (Chloride-CH3)



Area = - 0.00042 * Conc^2 + 0.20656 * Conc + 0.07210
Conc = 0.09024 * Area^2 + 4.55642 * Area - 0.15370
Correlation Coefficient (r) = 0.99993

Weighting : None

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975603-4	**MS Analysis Date**	: 09/24/24 14:59
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Chloride	30.	20	48.	90					58-140	7

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2453890-01		
Matrix Spike	: WG1975605-4	**MS Analysis Date**	: 09/24/24 15:07
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Chloride	84.	20	100	80					58-140	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/24/24 14:54
Dup Sample ID	: WG1975603-3	**DUP Analysis Date**	: 09/24/24 16:52

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	30.	25.	18 Q	7

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 09/24/24 15:04
Dup Sample ID	: WG1975605-3	**DUP Analysis Date**	: 09/24/24 15:05

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	84	81.	4	7

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975603-2	**LCS Analysis Date**	: 09/24/24 14:33
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	**30.0**	**30.0**	**100.**					**90-110**	**7**

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975605-2	**LCS Analysis Date**	: 09/24/24 14:35
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chloride	**30.0**	**30.0**	**100.**					**90-110**	**7**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	1	0.2	mg/l	90-110		58-140	7	7	4500CL-E	28 days	1 - Plastic 250ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chloride	16887-00-6	10	3.73	mg/kg	89-109	35	62-129	35	35	9251	28 days	1 - Glass 250ml/8oz unpreserved
Chloride	16887-00-6	10	3.73	mg/kg	90-110	35	62-129	35	35	4500CL-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Chloride

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

Cl mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ____

1 FCVS
2 30
3 80
4 FCB
5 100pgm 10X
6 WH19T5603-1 BIK
7 -2 LCS
8 WH19T5605-1 BIK
9 -2 LCS
10 WH19T5607-1 BIK
11 -2 LCS
12 WH19T5609-1 BIK
13 -2 LCS
14 53611-01
15 -02
16 53658-03
17 -04
18 -05
19 -06
20 -07
21 -08
22 53698-01
23 -02
24 -03
25 -05
26 -07
27 -08
28 53720-01
29 -02
30 WH19T5603-3 QNP
31 -4 MS
32 53720-03
33 -04 EB
34 -06
35 -07
36 -08
37 -09
38 53890-01
39 WH19T5605-3 QNP
40 -4 MS
41 53893-01
42 53894-01
43 53900-01
44 53908-01
45 53913-01
46 53934-07
47 54016-01
48 -02
49 -03
50 -04
51 -05
52 -06
53 -07
54 -08
55 54059-01
56 -02
57 54068-01
58 -03
59 -07
60 -08
61 54072-01
62 54124-01
63 -02
64 -03
65 -04
66 -05
67 WH19T5607-3 QNP
68 -4 MS
69 54124-06
70 53990-01
71 -02
72 -03
73 -04
74 -05
75 -06
76 53990-07
77 -08
78 -09
79 54036-01
80 -02
81 -03
82 -04
83 -05
84 WH19T5609-30
85 -4 M
86 54036-06
87 -07
88 -08
89 -09 FB
90 -10 FB
91 54218-01

To Page No. ____

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Fluoride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.02	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.02	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975298-1	**Date Collected**	: NA
Client ID	: WG1975298-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1975298-3	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8DDUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/24/24 07:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500F-BC	**Analyst**	: DTH
Lab File ID	: WG1975298.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/24/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16984-48-8	Fluoride	0.03	0.20	0.02	J

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

F L U O R I D E

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Analysis: FLUORIDE
Method: EPA 340.2
LCS Concentration (mg/l): 2
Spike Concentration (mg/l): 1

Product: F-340
Analysis Analyte: Fluoride,
Analysis Date: 9/24/2024 7:03
Technician: DTH
Work group: WG1975298
RL: 0.20 mg/L
Distillation Date: 9/24/2024 2:35

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve	
						Slope	y-intercept
0.2	-0.699	124.8	-0.705	0.1971	99	-58.9447708	83.225
0.5	-0.301	100.5	-0.293	0.5092	102		
1.0	0.000	83.2	0.000	1.0010	100	Correlation	Coefficient
10	1.000	24.4	0.998	9.953	100	0.99996608	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	50	50		YES	1.00	0	1.00	0.00	Recovery
	ICV	50	50		YES	1.00	0.978	1.00	0.98	49%
SAMP	L2453720-01	50	50		YES	1.00	0.0373	1.00	0.04	
SAMP	L2453720-02	50	50		YES	1.00	0.0273	1.00	0.03	
SAMP	L2453720-03	50	50		YES	1.00	0.0379	1.00	0.04	
SAMP	L2453720-04	50	50		YES	1.00	0.00881	1.00	0.01	
SAMP	L2453720-06	50	50		YES	1.00	0.0306	1.00	0.03	
SAMP	L2453720-07	50	50		YES	1.00	0.0231	1.00	0.02	
SAMP	L2453720-08	50	50		YES	1.00	0.0174	1.00	0.02	
SAMP	L2453720-09	50	50		YES	1.00	0.0276	1.00	0.03	
	L2453810-01	50	50		YES	1.00	0.179	1.00	0.18	
SAMP	L2453858-01	10	50		YES	5.00	0.0558	5.00	0.28	
SAMP	L2453858-02	10	50		YES	5.00	0.0197	5.00	0.10	
SAMP	L2453858-03	10	50		YES	5.00	0.0189	5.00	0.09	
SAMP	L2453858-04	10	50		YES	5.00	0.0191	5.00	0.10	
SAMP	L2454059-01	50	50		YES	1.00	0.0219	1.00	0.02	
SAMP	L2454059-02	50	50		YES	1.00	0.0388	1.00	0.04	
	CCV	50	50		YES	1.00	0.961	1.00	0.96	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	0.966	1.00	0.97	
	CCB	50	50		YES	1.00	0	1.00	0.00	
						1.00		1.00		
BLANK	WG1975298-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG1975298-3	50	50		YES	1.00	0.0281	1.00	0.03	L2453720-02

	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG1975298-4	50	50		YES	.03	0.974	1	0.97	94
LCS	WG1975298-2	50	50		YES		1.79	2	1.79	90

last sample

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1975298-4	**MS Analysis Date**	: 09/24/24 07:03
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Fluoride	0.03J	1	0.97	97					69-124	13

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/24/24 07:03
Dup Sample ID	: WG1975298-3	**DUP Analysis Date**	: 09/24/24 07:03

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.03J	0.03J	NC	13

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1975298-2	**LCS Analysis Date**	: 09/24/24 07:03
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Fluoride	**2.00**	**1.80**	**90.**					**78-120**	**13**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	0.2	0.017	mg/l	78-120		69-124	13	13	4500F-BC	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Fluoride	16984-48-8	10	1.04	mg/kg	80-120		70-130	20	20	4500F-BC	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

Fluoride, mg/L = (mg F-/L) X (Volume of Distillate, mL)/ Volume of Sample, mL

For solids:

Fluoride, mg/Kg = (mg F-/L) X (Volume of Distillate, mL)/Weight of Sample, gm

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

WG1975298

Analyst: DTH
Date & Time: 7/24/24 7:03
ICV:F 682224
LCS:F 082224
Spike:F 071524
Curve:WC- 3253
TISAB III: R- 4215

STD	MV
0.0	124.8
0.5	100.5
1.0	83.2
10.0	24.4

Sample	Volume	Final Volume	Meter
ICV	50mL	50mL	0.978
ICB			0.0
Blank			0.0
LCS			1.79
53720 -01			0.0373
-02			0.0273
Dup 02			0.0281
-MS 02			0.974
-03			0.0379
-04			0.00681
-06			0.0306
-07			0.0231
CCV			0.961
CCB			0.00
-08			0.0174
-09			0.0276
53810 -01			0.179
53858 -01	5X (10mL→50mL)		0.0558
-02			0.0197
-03			0.0189
-04			0.0191
54059 -01	50mL		0.0219
-02			0.0388
CCV			0.966
CCB			0.00

To Page No. ____

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Tube	Sample	Volume	Final Volume	Block	Comments
1	Blank	50mL	50mL	Phenol #2	DIH 9/29/24 2:35
2	LCS				1.0mL F071524-100ppm
3	53700-01				
4	-02				
5	Dupor				
6	MS02				0.5mL F071524-100ppm
7	03				
8	04				
9	06				
10	07			Phenol #3	
11	08				
12	09				
13	53810-01				
14	53858-01	5x (10mL→50mL)			Dilution due too Limited Volume!
15	-02				
16	-03				
17	-04				
18	54059-01	50mL			
19	-02				

To Page No. ____

nessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.052	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.022	0.031	0.012	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.052	0.031	0.012	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:29
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.037	0.031	0.012	

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-07	**Date Collected**	:	09/18/24 11:25
Client ID	:	PZ-5	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/23/24 14:32
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	121,4500P-E(M)	**Analyst**	:	MEF
Lab File ID	:	PHOS092324-WG1974827.csv	**Instrument ID**	:	SEAL
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	09/23/24

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-08	**Date Collected**	: 09/18/24 12:55
Client ID	: MW-12S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.025	0.031	0.012	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/23/24 14:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974827-1	**Date Collected**	: NA
Client ID	: WG1974827-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/23/24 14:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

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

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974827-3	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8DDUP	**Date Received**	: 09/18/24
Sample Location	:	**Date Analyzed**	: 09/23/24 14:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: MEF
Lab File ID	: PHOS092324-WG1974827.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 09/23/24

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.025	0.031	0.012	J

Sample Raw Data

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	MFlaherty
Date & Time:	23-Sep-2024 14:57:38
Tray Number:	1
Tray Name:	WG1974827

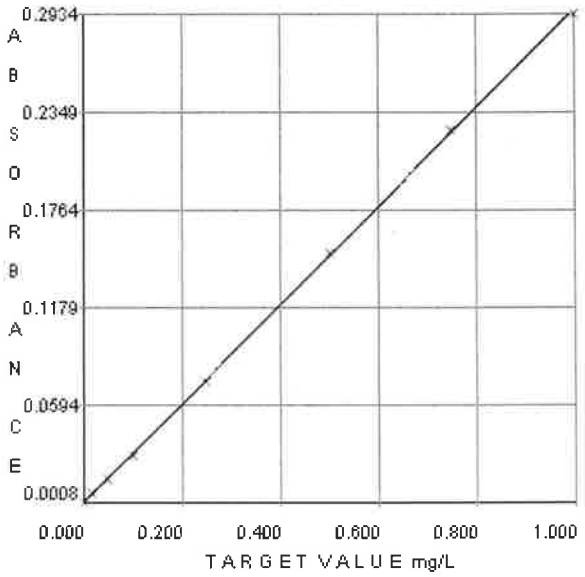
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0008	0.002	0.000	
S90	0.0060	0.019	0.020	-5.46
S91	0.0146	0.048	0.050	-3.57
S92	0.0291	0.097	0.100	-2.75
S93	0.0735	0.247	0.250	-1.08
S94	0.1504	0.508	0.500	1.53
S95	0.2243	0.757	0.750	1.00
S96	0.2934	0.992	1.000	-0.84
S0	0.0010	0.002	0.000	

Polynomial Order:	1
Correlation Coefficient:	0.9999
Carryover(%):	0.1
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-1.303674E-003
b =:	3.383715E+000
Date & Time:	23-Sep-2024 14:05:39

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	092024-tp color	Maeve Flaherty	11-Oct-2024 22:00:00
TP ascorbic	091824-aa	Maeve Flaherty	25-Sep-2024 22:00:00

Test Results

Cup	Type	ID	Details	Result	Units	Test Dil.	Cup Dil.	User	Time/Date
	S1	STANDARD 1		0.001				MEF	23-Sep-2024 13:56:39
	S90	STANDARD 90		0.006				MEF	23-Sep-2024 13:57:46
	S91	STANDARD 91		0.015				MEF	23-Sep-2024 13:58:52
	S92	STANDARD 92		0.029				MEF	23-Sep-2024 13:59:59
	S93	STANDARD 93		0.073				MEF	23-Sep-2024 14:01:06
	S94	STANDARD 94		0.150				MEF	23-Sep-2024 14:02:13
	S95	STANDARD 95		0.224				MEF	23-Sep-2024 14:03:20
	S96	STANDARD 96		0.293				MEF	23-Sep-2024 14:04:30
	S0	STANDARD 0		0.001				MEF	23-Sep-2024 14:05:39
2	ICV	ICV	23-SEP-2024 13:13	0.482	mg/L			MEF	23-Sep-2024 14:06:46
3	ICB	ICB	23-SEP-2024 13:13	0.002	mg/L			MEF	23-Sep-2024 14:07:53
4	U1	WG1974827-1O	23-SEP-2024 13:13	0.001ELL	mg/L			MEF	23-Sep-2024 14:09:01
5	U2	WG1974827-2O	23-SEP-2024 13:13	0.473	mg/L			MEF	23-Sep-2024 14:10:08

6	U3	L2453489-05O	23-SEP-2024 13:13	0.497	mg/L		MEF	23-Sep-2024 14:11:16
7	U4	L2453489-07O	23-SEP-2024 13:13	0.074	mg/L		MEF	23-Sep-2024 14:12:24
8	U5	L2453489-08O	23-SEP-2024 13:13	1.145	mg/L	x5.0000	MEF	23-Sep-2024 14:53:48
9	U6	L2453499-01O	23-SEP-2024 13:13	0.018	mg/L		MEF	23-Sep-2024 14:14:39
10	U7	L2453499-02O	23-SEP-2024 13:13	0.020	mg/L		MEF	23-Sep-2024 14:15:46
	CCV	C C V		0.465	mg/L		MEF	23-Sep-2024 14:16:54
	CCB	C C B		0.000	mg/L		MEF	23-Sep-2024 14:18:03
11	U8	L2453499-03O	23-SEP-2024 13:13	0.023	mg/L		MEF	23-Sep-2024 14:19:12
12	U9	L2453500-01O	23-SEP-2024 13:13	0.020	mg/L		MEF	23-Sep-2024 14:20:19
13	U10	L2453500-02O	23-SEP-2024 13:13	0.023	mg/L		MEF	23-Sep-2024 14:21:27
14	U11	L2453500-03O	23-SEP-2024 13:13	0.045	mg/L		MEF	23-Sep-2024 14:22:34
15	U12	L2453720-01O	23-SEP-2024 13:13	0.017	mg/L		MEF	23-Sep-2024 14:23:42
16	U13	L2453720-02O	23-SEP-2024 13:13	0.007	mg/L		MEF	23-Sep-2024 14:24:49
17	U14	WG1974827-3O	23-SEP-2024 13:13	0.008	mg/L		MEF	23-Sep-2024 14:25:56
18	U15	WG1974827-4O	23-SEP-2024 13:13	0.519	mg/L		MEF	23-Sep-2024 14:27:05
19	U16	L2453720-03O	23-SEP-2024 13:13	0.017	mg/L		MEF	23-Sep-2024 14:28:14
20	U17	L2453720-04O	23-SEP-2024 13:13	0.002	mg/L		MEF	23-Sep-2024 14:29:08
	CCV	C C V		0.479	mg/L		MEF	23-Sep-2024 14:30:10
	CCB	C C B		0.001	mg/L		MEF	23-Sep-2024 14:31:04
21	U18	L2453720-06O	23-SEP-2024 13:13	0.012	mg/L		MEF	23-Sep-2024 14:31:58
22	U19	L2453720-07O	23-SEP-2024 13:13	0.010	mg/L		MEF	23-Sep-2024 14:32:51
23	U20	L2453720-08O	23-SEP-2024 13:13	0.008	mg/L		MEF	23-Sep-2024 14:33:45
24	U21	L2453720-09O	23-SEP-2024 13:13	0.005	mg/L		MEF	23-Sep-2024 14:34:38
25	U22	L2454059-01O	23-SEP-2024 13:13	0.007	mg/L		MEF	23-Sep-2024 14:35:31
26	U23	L2454059-02O	23-SEP-2024 13:13	0.019	mg/L		MEF	23-Sep-2024 14:36:25
	CCV	C C V		0.473	mg/L		MEF	23-Sep-2024 14:37:18
	CCB	C C B		0.001	mg/L		MEF	23-Sep-2024 14:38:12
	CCV	CCV		0.472	mg/L			23-Sep-2024 14:51:58
	CCB	CCB		0.002	mg/L			23-Sep-2024 14:52:53
	CCV	CCV		0.483	mg/L			23-Sep-2024 14:54:42
	CCB	CCB		0.001	mg/L			23-Sep-2024 14:55:37

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1974827-4	**MS Analysis Date**	: 09/23/24 14:27
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
	Sample Conc.	Spike Added	Spike Conc.	%R	Spike Added	Spike Conc.	%R	RPD	Recovery Limits	RPD Limit
Parameter	(mg/l)	(mg/l)	(mg/l)		(mg/l)	(mg/l)				
Phosphate, Total	0.022J	1.53	1.59	104					80-120	15

Form 6
Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02	**Analysis Date**	: 09/23/24 14:24
Dup Sample ID	: WG1974827-3	**DUP Analysis Date**	: 09/23/24 14:25

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.022J	0.025J	NC	15

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974827-2	**LCS Analysis Date**	: 09/23/24 14:10
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.45**	**95.**					**84-118**	**15**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-01	**Date Collected**	: 09/18/24 09:10
Client ID	: MW-8S	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 18:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974656	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.064	0.050	0.013	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-02	**Date Collected**	: 09/18/24 09:05
Client ID	: MW-8D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 18:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974656	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-03	**Date Collected**	: 09/18/24 12:00
Client ID	: DUP_091824	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 19:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974656	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.063	0.050	0.013	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-04	**Date Collected**	: 09/18/24 14:00
Client ID	: EQUIPMENT BLANK	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 19:38
Sample Matrix	: Equipment Blank	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974656	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-06	**Date Collected**	: 09/18/24 11:45
Client ID	: MW-5D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 19:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974656	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.064	0.050	0.013	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-07	**Date Collected**	: 09/18/24 11:25
Client ID	: PZ-5	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 20:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974656	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	:	Roux Env. Eng. & Geology, DPC	**Lab Number**	:	L2453720
Project Name	:	CORAM MATERIALS	**Project Number**	:	2232.0006Y005
Lab ID	:	L2453720-08	**Date Collected**	:	09/18/24 12:55
Client ID	:	MW-12S	**Date Received**	:	09/18/24
Sample Location	:	416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	:	09/21/24 20:15
Sample Matrix	:	WATER	**Dilution Factor**	:	1
Analytical Method	:	44,300.0	**Analyst**	:	CVN,
Lab File ID	:	WG1974656	**Instrument ID**	:	IC3
Sample Amount	:		**%Solids**	:	N/A
Digestion Method	:		**Date Digested**	:	

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.043	0.050	0.013	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: L2453720-09	**Date Collected**	: 09/18/24 13:00
Client ID	: MW-12D	**Date Received**	: 09/18/24
Sample Location	: 416 MILLER PLACE-YAPHANK ROAD	**Date Analyzed**	: 09/21/24 20:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974656	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.066	0.050	0.013	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Lab ID	: WG1974656-1	**Date Collected**	: NA
Client ID	: WG1974656-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 09/21/24 21:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1974656	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

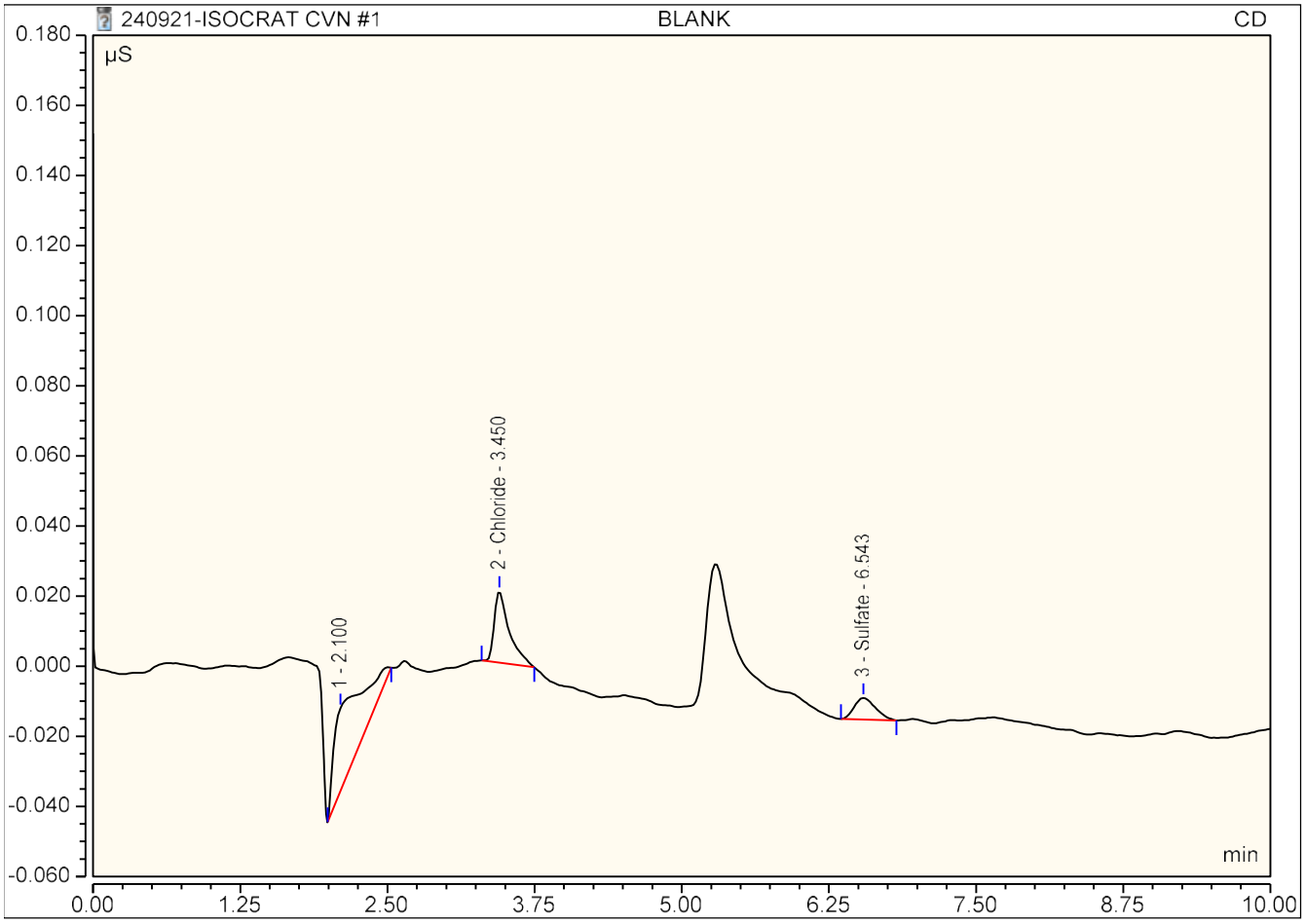
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:08**	*Run Time:*	**10.00**

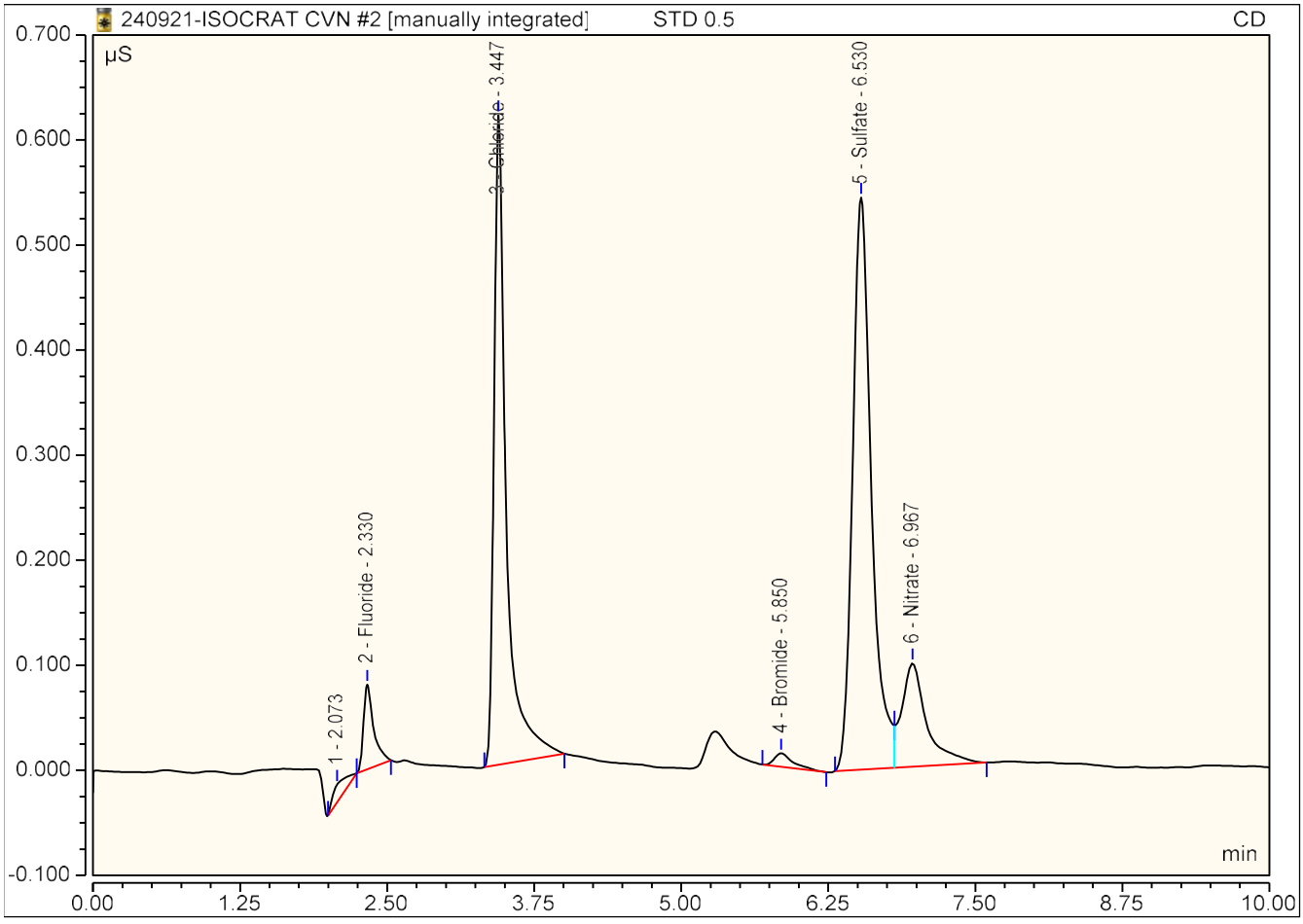
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.45	**Chloride**	BMB	0.003	0.020	0.2129
3	6.54	**Sulfate**	BMB	0.001	0.006	0.2810
TOTAL:				0.00	0.03	0.49



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:20**	*Run Time:*	**10.00**

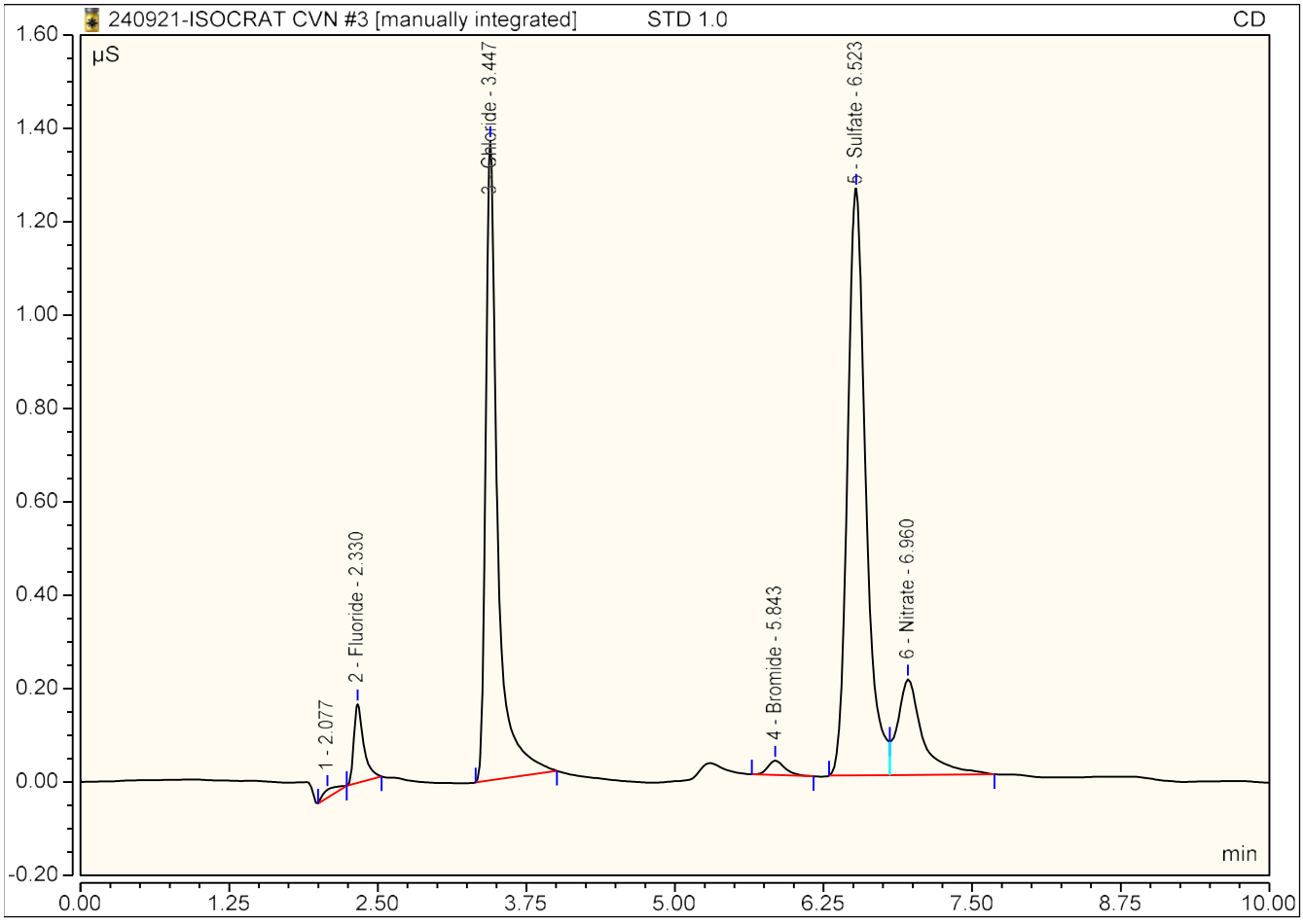
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.008	0.081	0.0592
3	3.45	**Chloride**	BMB*	0.074	0.618	0.3873
4	5.85	**Bromide**	BMB	0.002	0.013	0.0525
5	6.53	**Sulfate**	BM *	0.100	0.545	0.6237
6	6.97	**Nitrate**	MB*	0.024	0.098	0.0442
TOTAL:				0.21	1.35	1.17



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:33**	*Run Time:*	**10.00**

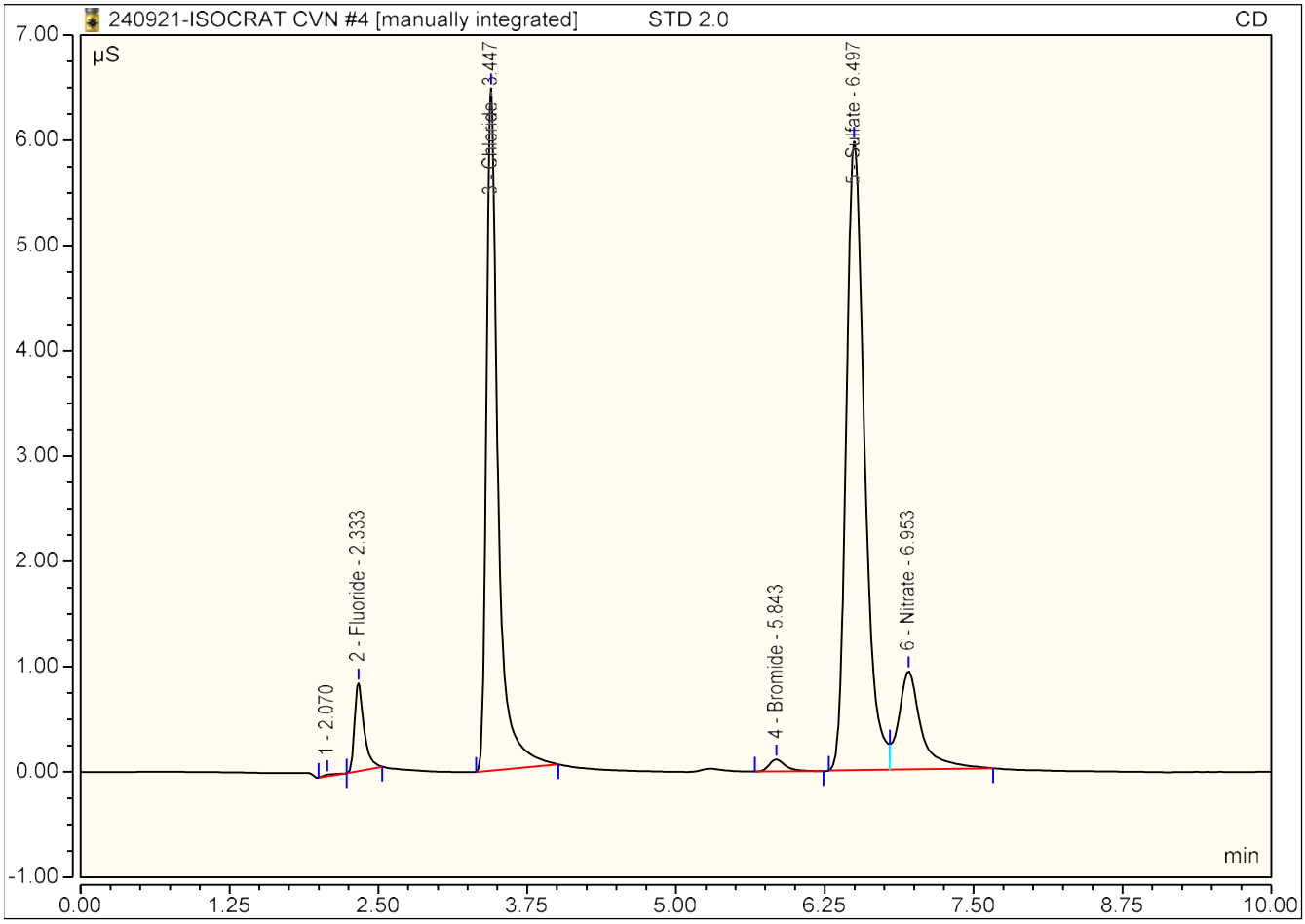
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.016	0.169	0.0738
3	3.45	**Chloride**	BMB*	0.159	1.370	0.5947
4	5.84	**Bromide**	BMB	0.005	0.031	0.0753
5	6.52	**Sulfate**	BM *	0.223	1.257	1.0491
6	6.96	**Nitrate**	MB*	0.050	0.205	0.0646
TOTAL:				0.45	3.03	1.86



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:45**	*Run Time:*	**10.00**

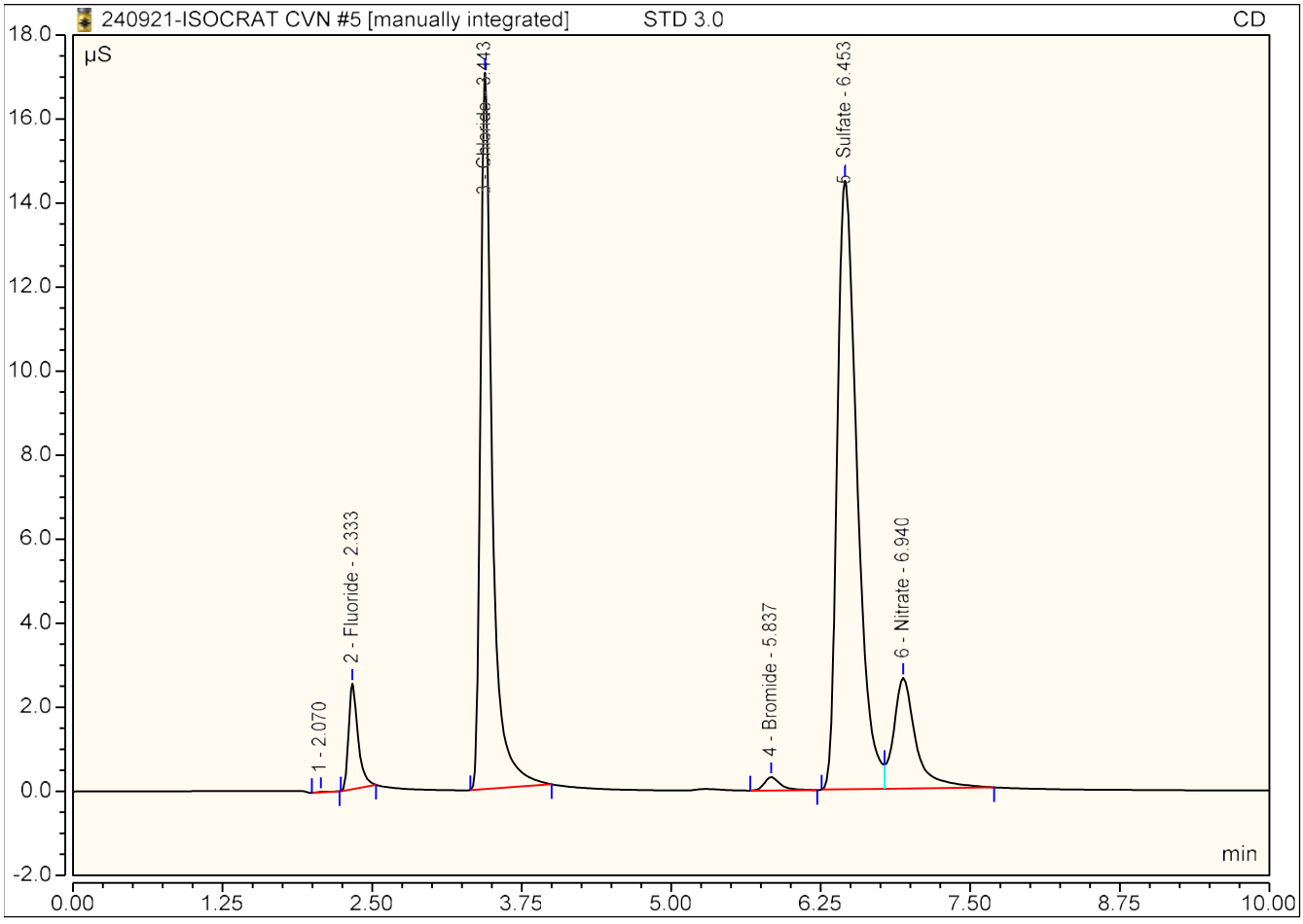
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.077	0.836	0.1840
3	3.45	**Chloride**	BMB*	0.734	6.483	1.9971
4	5.84	**Bromide**	BMB	0.019	0.116	0.1890
5	6.50	**Sulfate**	BM *	1.064	5.973	3.9561
6	6.95	**Nitrate**	MB*	0.206	0.936	0.1868
TOTAL:				2.10	14.34	6.51



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 16:57**	*Run Time:*	**10.00**

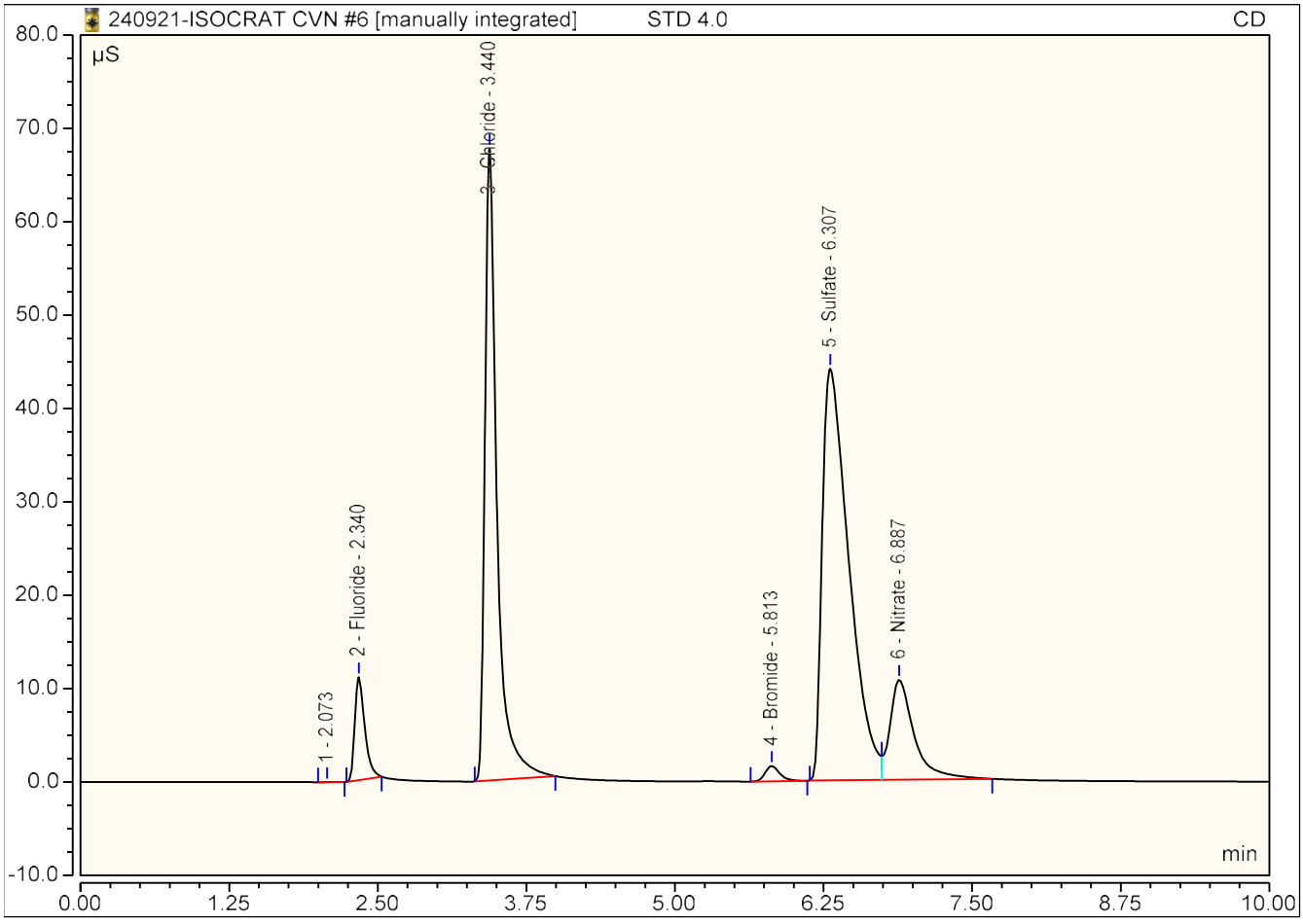
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.228	2.511	0.4607
3	3.44	**Chloride**	BMB*	1.937	17.049	4.9336
4	5.84	**Bromide**	BMB	0.050	0.317	0.4440
5	6.45	**Sulfate**	BM *	2.793	14.483	9.9320
6	6.94	**Nitrate**	MB*	0.570	2.634	0.4717
TOTAL:				5.58	36.99	16.24



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:09**	*Run Time:*	**10.00**

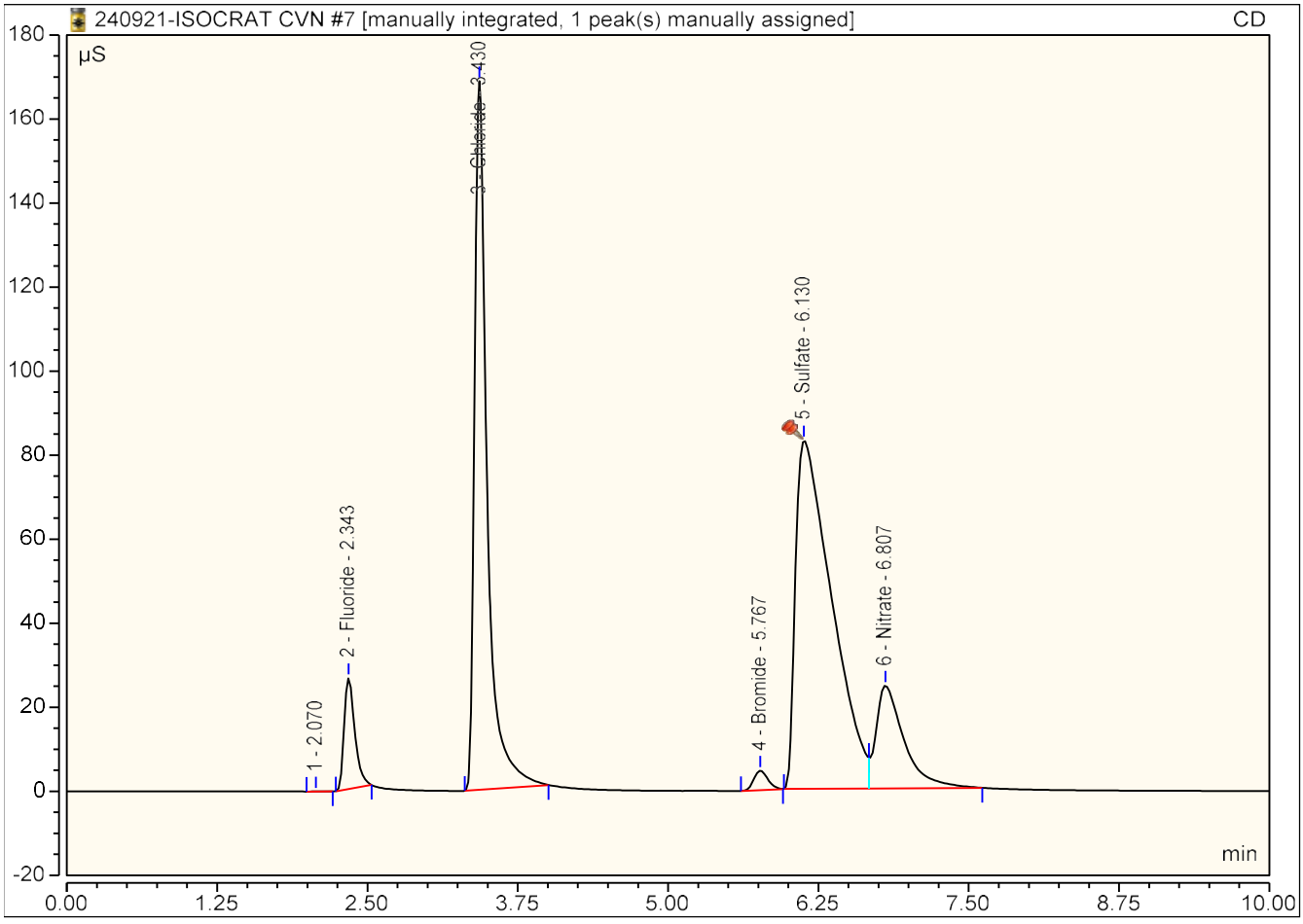
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	1.066	11.023	1.9885
3	3.44	**Chloride**	BMB*	7.993	67.701	19.7203
4	5.81	**Bromide**	BMB	0.239	1.650	2.0141
5	6.31	**Sulfate**	BM *	11.456	44.080	39.8861
6	6.89	**Nitrate**	MB*	2.529	10.726	2.0078
TOTAL:				23.28	135.18	65.62



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:21**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	2.722	26.414	5.0087
3	3.43	**Chloride**	BMB*	20.443	168.608	50.1170
4	5.77	**Bromide**	BMB	0.629	4.639	5.2575
5	6.13	**Sulfate**	BM *^	28.857	82.915	100.0530
6	6.81	**Nitrate**	MB*	6.605	24.427	5.2021
TOTAL:				59.26	307.00	165.64



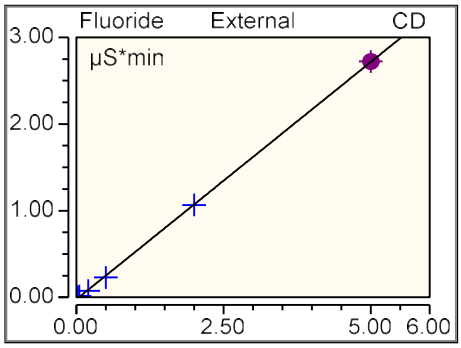
Calibration Batch Report

Sequence:	**240921-ISOCRAT CVN**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**05-Sep-2024 / 17:21**	*Run Time:*	**10**

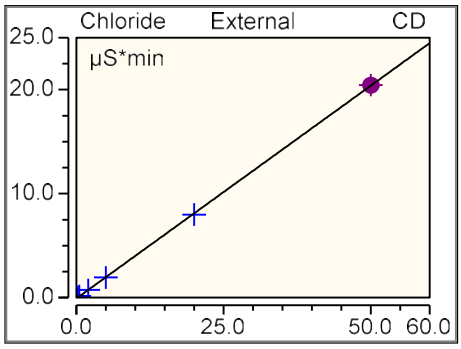
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.024	0.548	0.000	99.9805
Chloride	Area	in, WithOffse	6.000	-0.084	0.410	0.000	99.9935
Bromide	Area	in, WithOffse	5.000	-0.004	0.120	0.000	99.8241
Sulfate	Area	in, WithOffse	6.000	-0.080	0.289	0.000	99.9995
Nitrate	Area	in, WithOffse	5.000	-0.032	1.276	0.000	99.9412
		AVERAGE:		-0.0449	0.5287	0.0000	99.9478

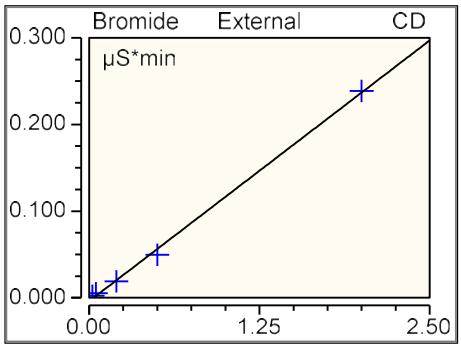
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.330	0.0081	0.081	0.059
STD 1.0	2.330	0.0161	0.169	0.074
STD 2.0	2.333	0.0765	0.836	0.184
STD 3.0	2.333	0.2282	2.511	0.461
STD 4.0	2.340	1.0658	11.023	1.989
STD 5.0	2.343	2.7217	26.414	5.009
Average	2.335			
Rel. Std. Dev.	0.235 %			



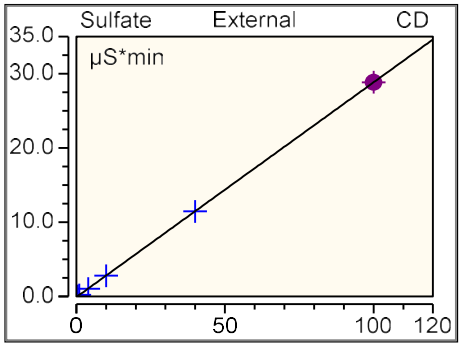
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.447	0.0744	0.618	0.387
STD 1.0	3.447	0.1594	1.370	0.595
STD 2.0	3.447	0.7338	6.483	1.997
STD 3.0	3.443	1.9365	17.049	4.934
STD 4.0	3.440	7.9930	67.701	19.720
STD 5.0	3.430	20.4430	168.608	50.117
Average	3.442			
Rel. Std. Dev.	0.190 %			



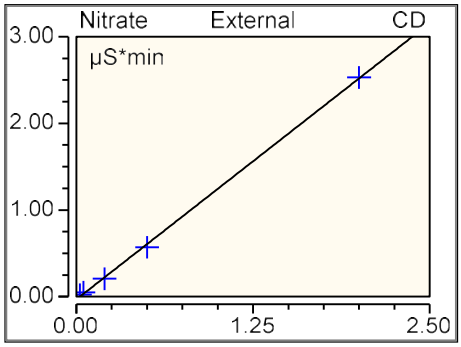
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.850	0.0024	0.013	0.053
STD 1.0	5.843	0.0051	0.031	0.075
STD 2.0	5.843	0.0188	0.116	0.189
STD 3.0	5.837	0.0495	0.317	0.444
STD 4.0	5.813	0.2386	1.650	2.014
STD 5.0	5.767	0.6291	4.639	5.257
Average	5.826			
Rel. Std. Dev.	0.541 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.530	0.1004	0.545	0.624
STD 1.0	6.523	0.2234	1.257	1.049
STD 2.0	6.497	1.0642	5.973	3.956
STD 3.0	6.453	2.7926	14.483	9.932
STD 4.0	6.307	11.4558	44.080	39.886
STD 5.0	6.130	28.8572	82.915	100.053
Average	6.407			
Rel. Std. Dev.	2.474 %			



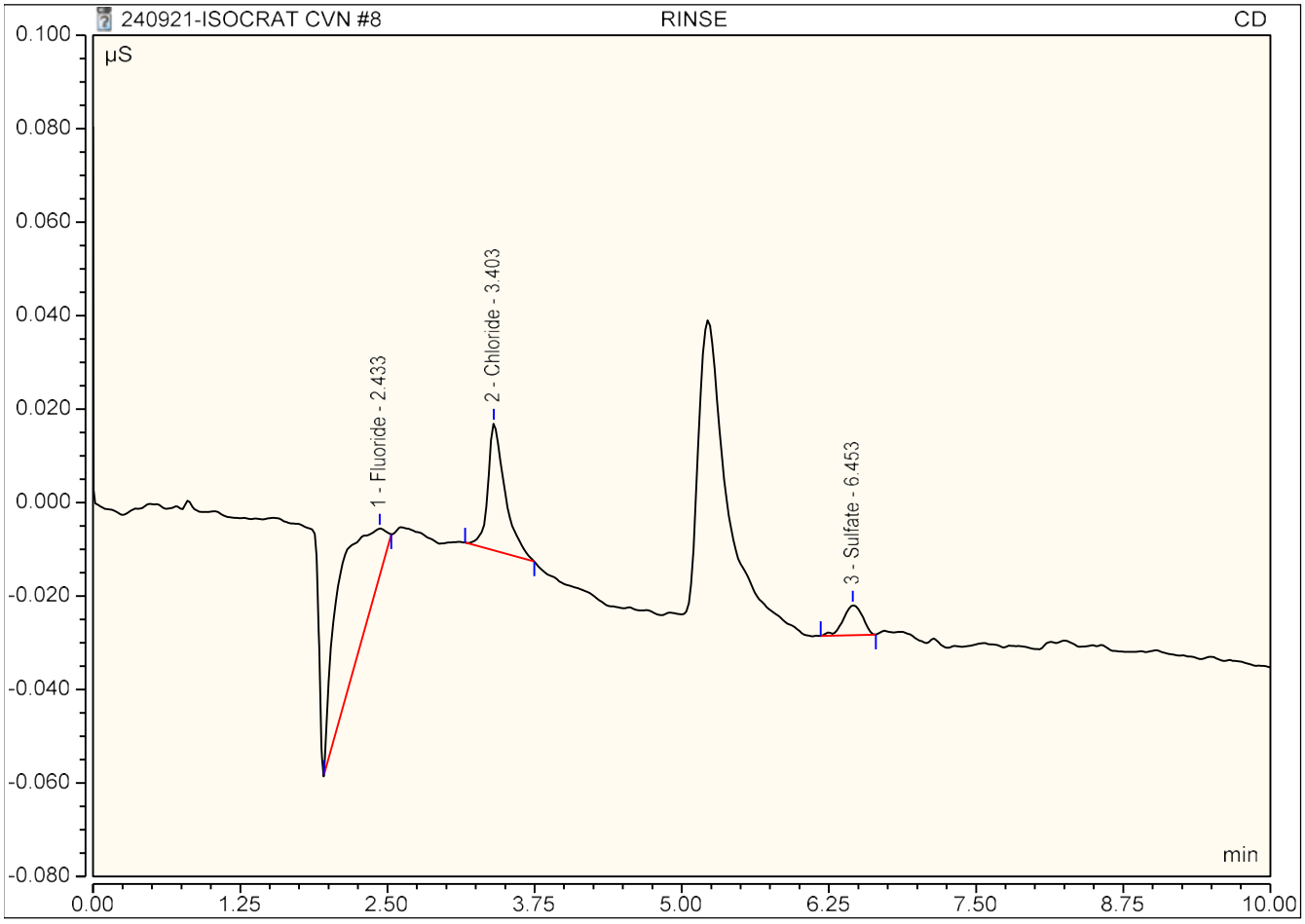
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.967	0.0242	0.098	0.044
STD 1.0	6.960	0.0502	0.205	0.065
STD 2.0	6.953	0.2061	0.936	0.187
STD 3.0	6.940	0.5696	2.634	0.472
STD 4.0	6.887	2.5293	10.726	2.008
STD 5.0	6.807	6.6045	24.427	5.202
Average	6.919			
Rel. Std. Dev.	0.896 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 08:34**	*Run Time:*	**10.00**

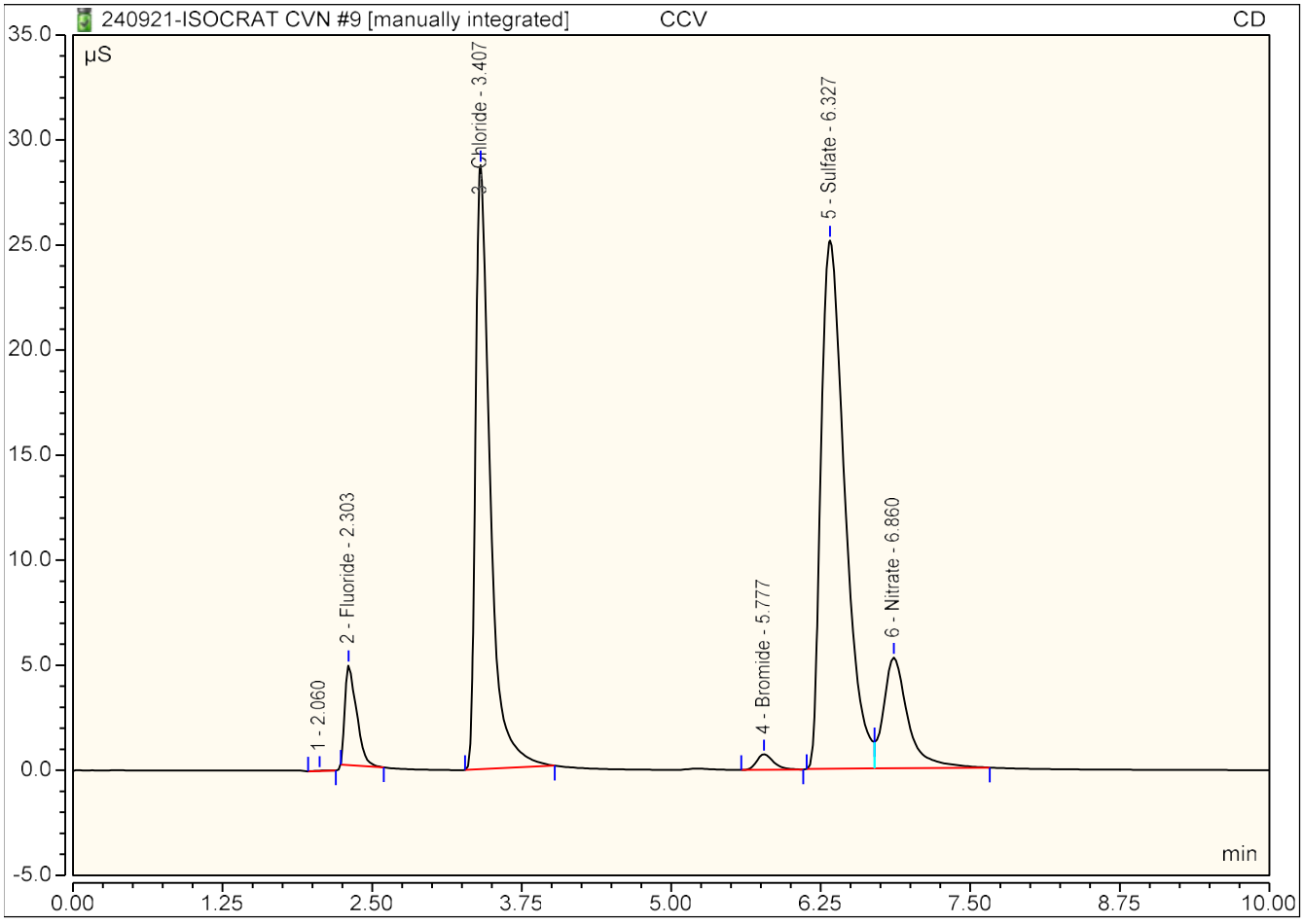
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.43	**Fluoride**	BMB	0.011	0.010	0.0642
2	3.40	**Chloride**	BMB	0.005	0.027	0.2169
3	6.45	**Sulfate**	BMB	0.001	0.006	0.2808
TOTAL:				0.02	0.04	0.56



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 08:46**	*Run Time:*	**10.00**

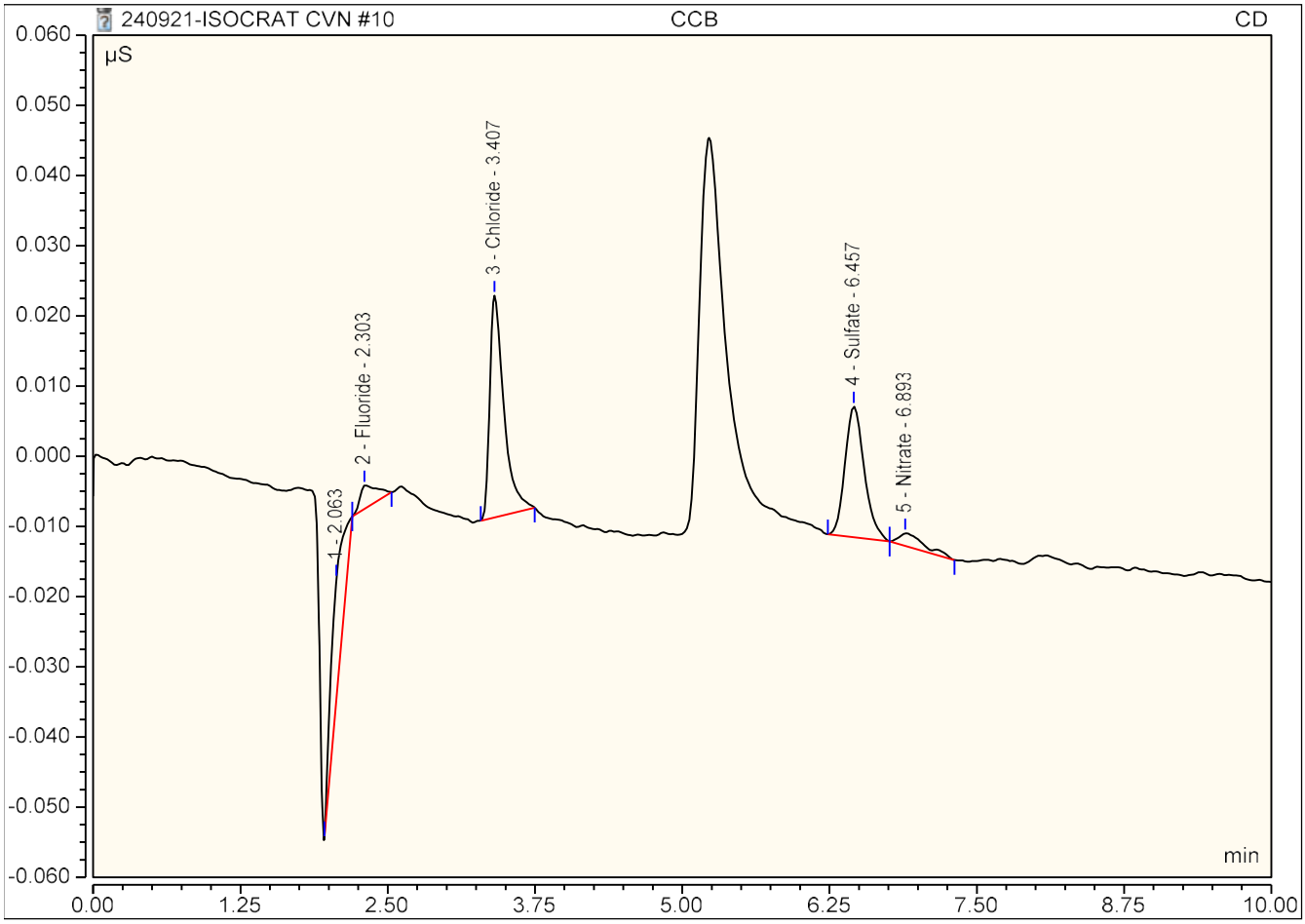
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB*	0.533	4.758	1.0162
3	3.41	**Chloride**	BMB*	4.075	28.742	10.1547
4	5.78	**Bromide**	BMB	0.120	0.740	1.0333
5	6.33	**Sulfate**	BM *	5.795	25.149	20.3146
6	6.86	**Nitrate**	MB*	1.252	5.274	1.0064
TOTAL:				11.78	64.66	33.53



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 08:58**	*Run Time:*	**10.00**

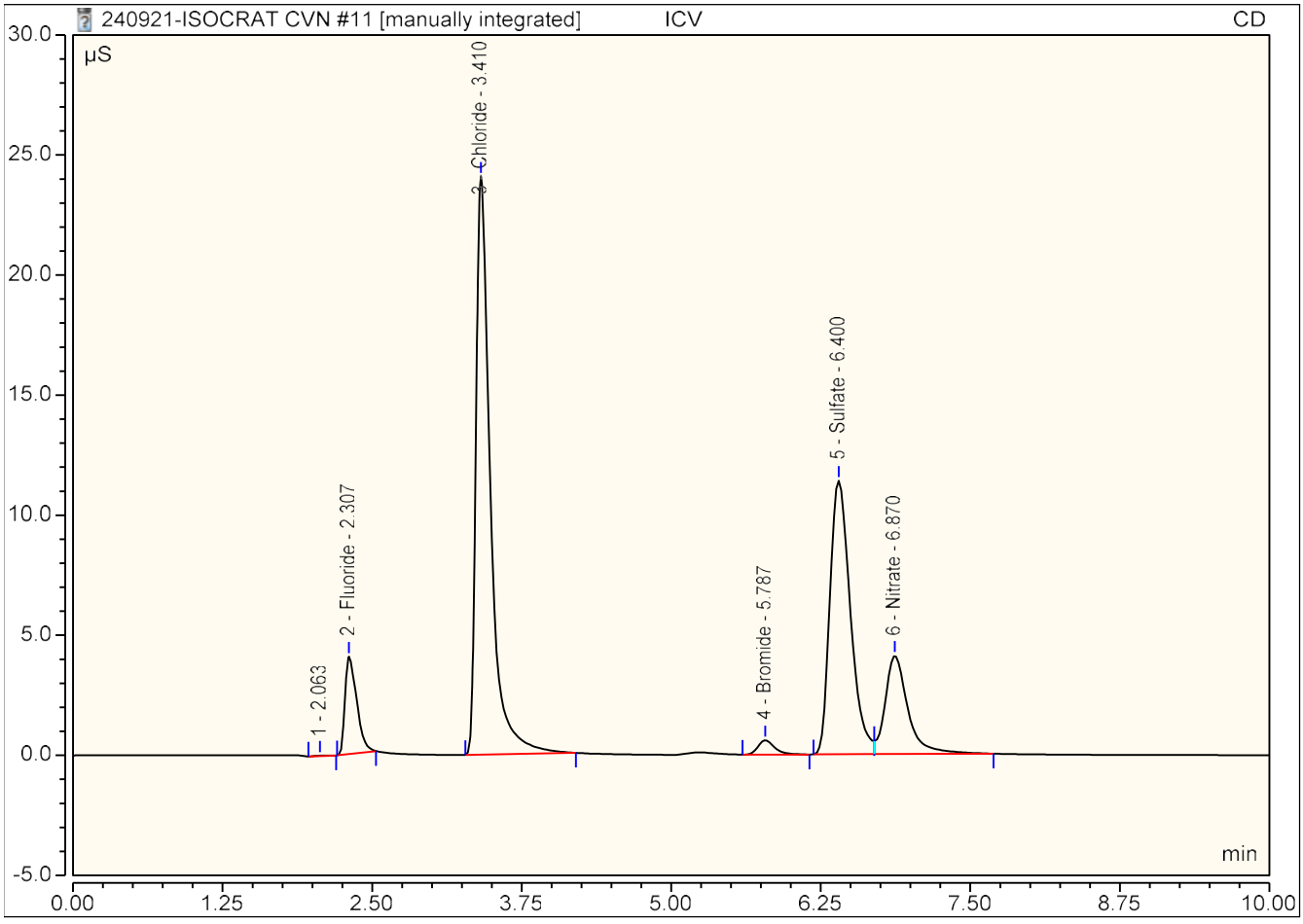
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.001	0.003	0.0454
3	3.41	**Chloride**	BMB	0.004	0.032	0.2163
4	6.46	**Sulfate**	BMB	0.004	0.019	0.2888
5	6.89	**Nitrate**	BMB	0.000	0.002	0.0256
TOTAL:				0.01	0.06	0.58



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 09:10**	*Run Time:*	**10.00**

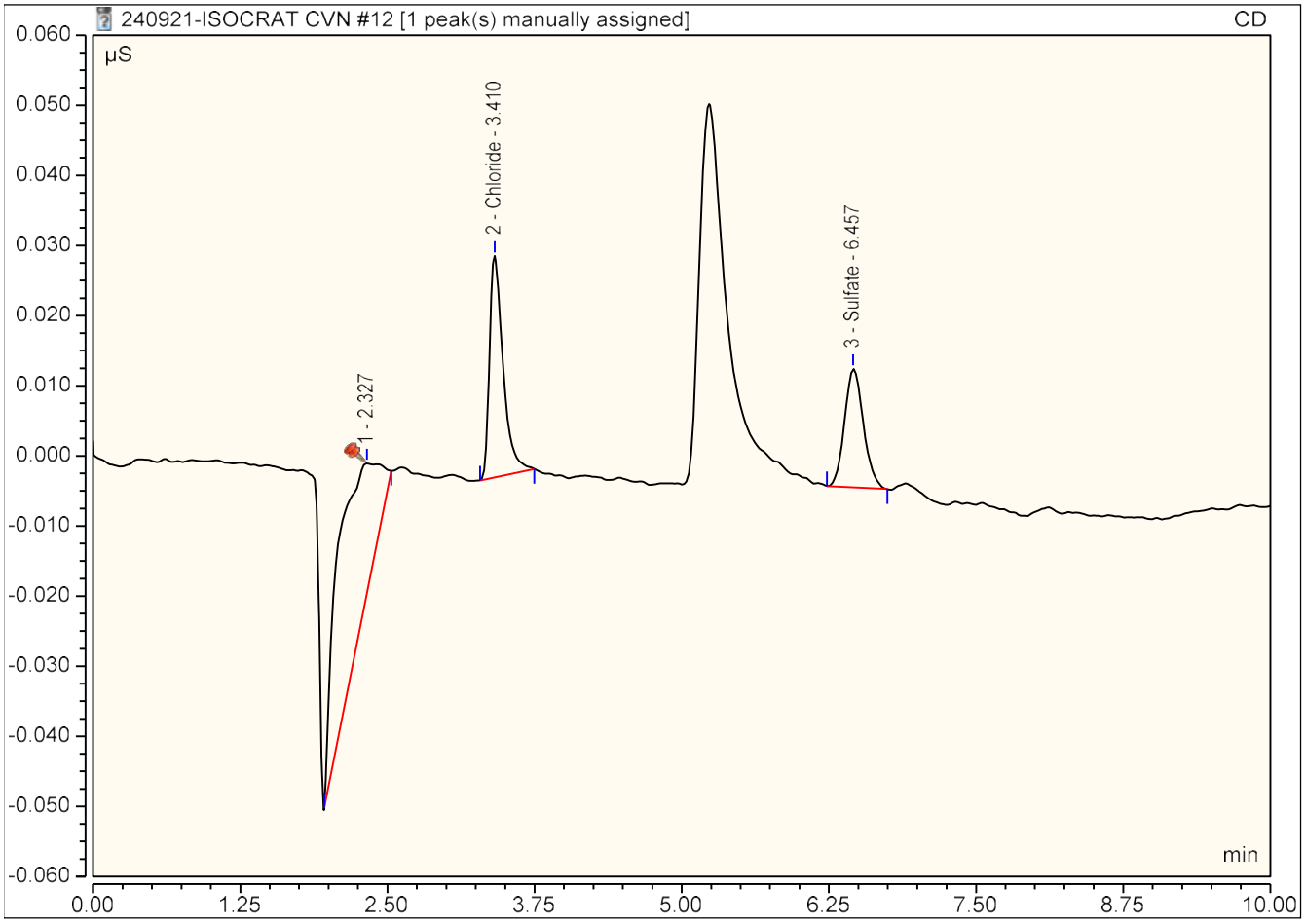
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.456	4.055	0.8766
3	3.41	**Chloride**	BMB*	3.353	24.071	8.3922
4	5.79	**Bromide**	BMB	0.096	0.593	0.8333
5	6.40	**Sulfate**	BM *	2.251	11.388	8.0588
6	6.87	**Nitrate**	MB*	0.899	4.092	0.7298
TOTAL:				7.06	44.20	18.89



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 09:22**	*Run Time:*	**10.00**

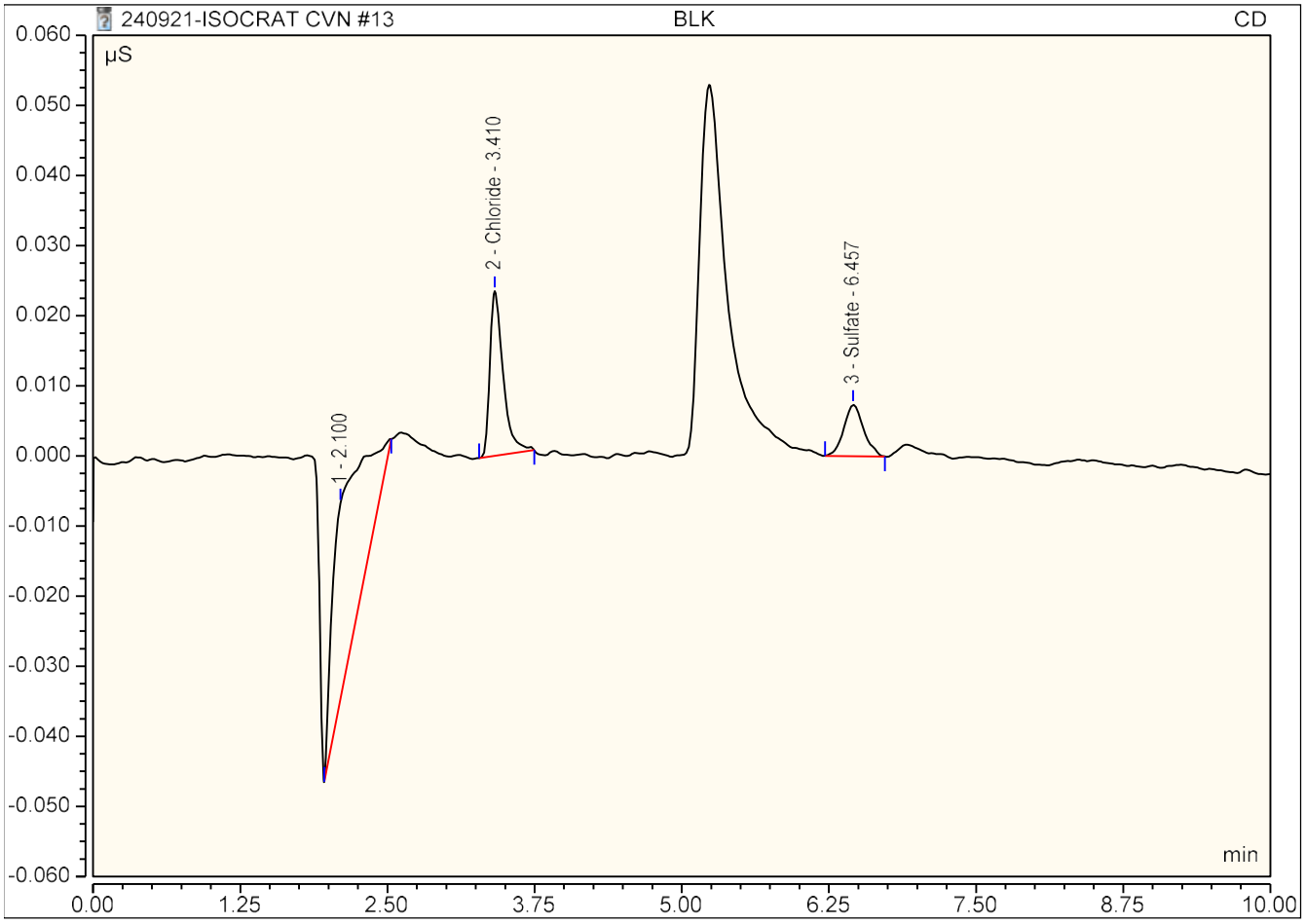
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.41	**Chloride**	BMB	0.004	0.032	0.2159
3	6.46	**Sulfate**	BMB	0.003	0.017	0.2874
TOTAL:				0.01	0.05	0.50



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 09:34**	*Run Time:*	**10.00**

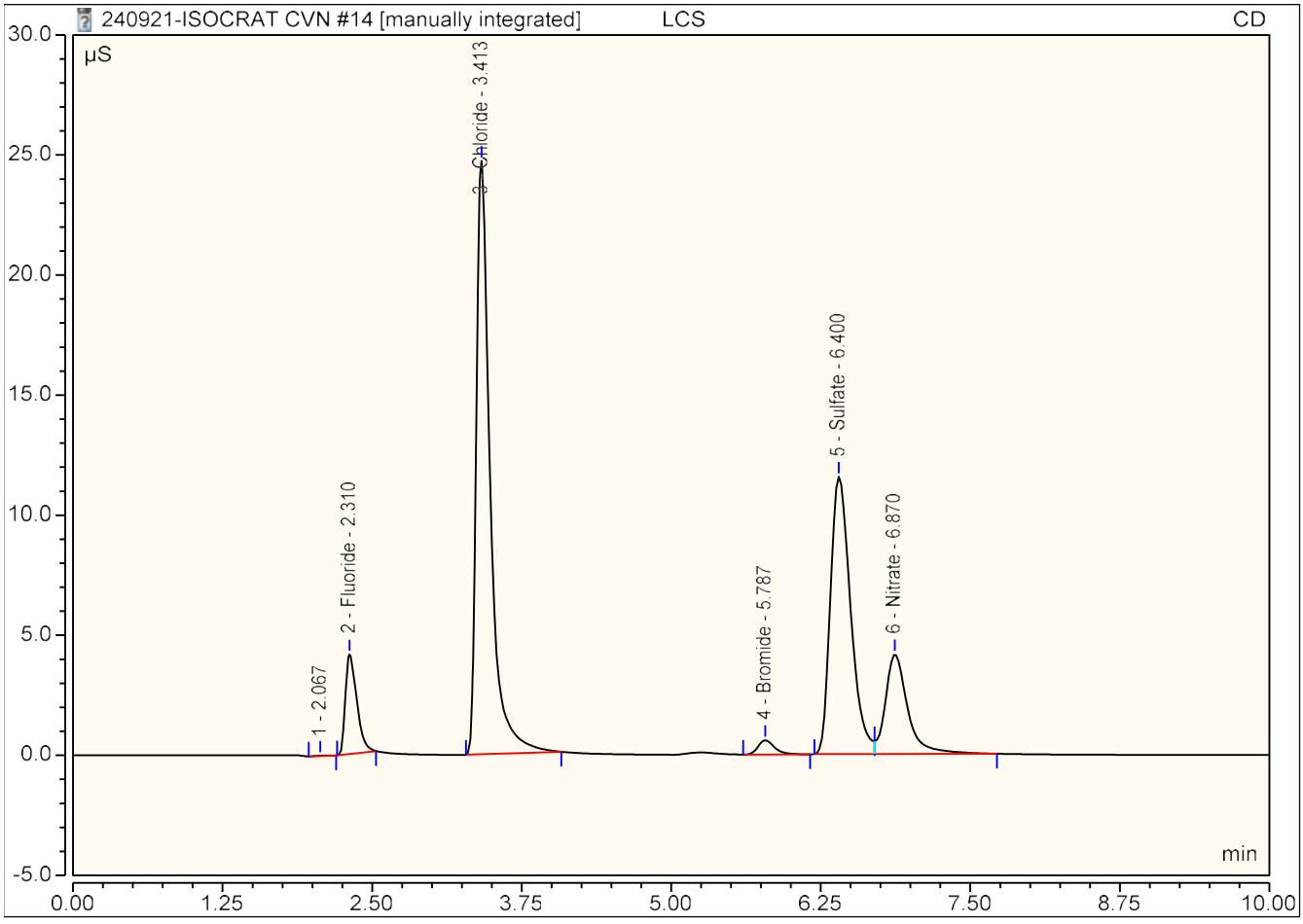
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.41	**Chloride**	BMB	0.003	0.023	0.2131
3	6.46	**Sulfate**	BMB	0.001	0.007	0.2815
TOTAL:				0.00	0.03	0.49



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 09:46**	*Run Time:*	**10.00**

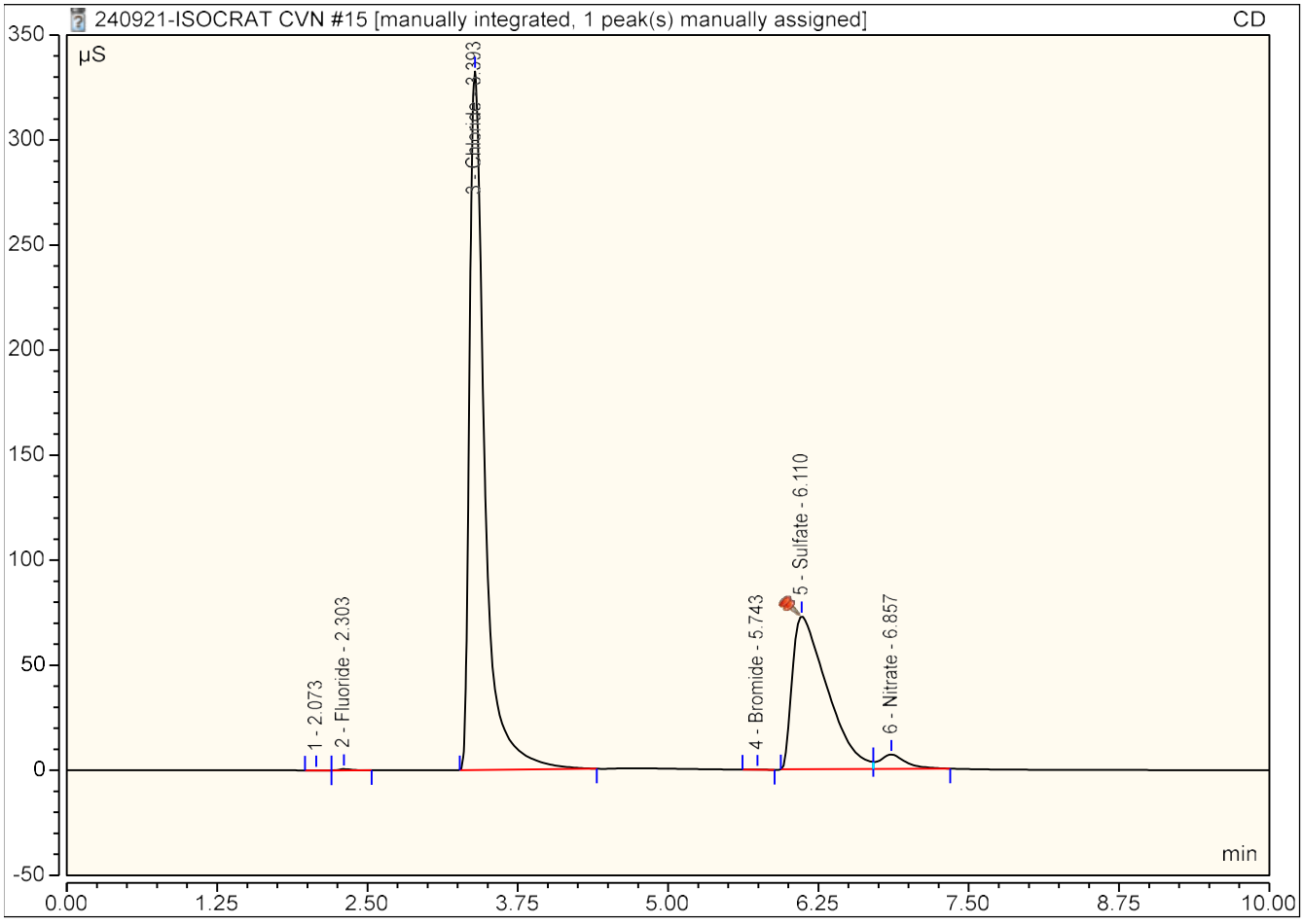
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.455	4.151	0.8747
3	3.41	**Chloride**	BMB*	3.324	24.710	8.3210
4	5.79	**Bromide**	BMB	0.096	0.601	0.8290
5	6.40	**Sulfate**	BM *	2.254	11.546	8.0688
6	6.87	**Nitrate**	MB*	0.893	4.151	0.7249
TOTAL:				7.02	45.16	18.82



Peak Integration Report

Sample Name:	**L2453576-01 BR CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 09:58**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.30	**Fluoride**	BMB	0.066	0.597	0.1648
3	3.39	**Chloride**	BMB*	48.973	332.488	119.7739
4	5.74	**Bromide**	BMB	0.002	0.018	0.0514
5	6.11	**Sulfate**	BM *^	24.365	72.832	84.5219
6	6.86	**Nitrate**	MB*	1.695	6.820	1.3542
TOTAL:				75.10	412.75	205.87



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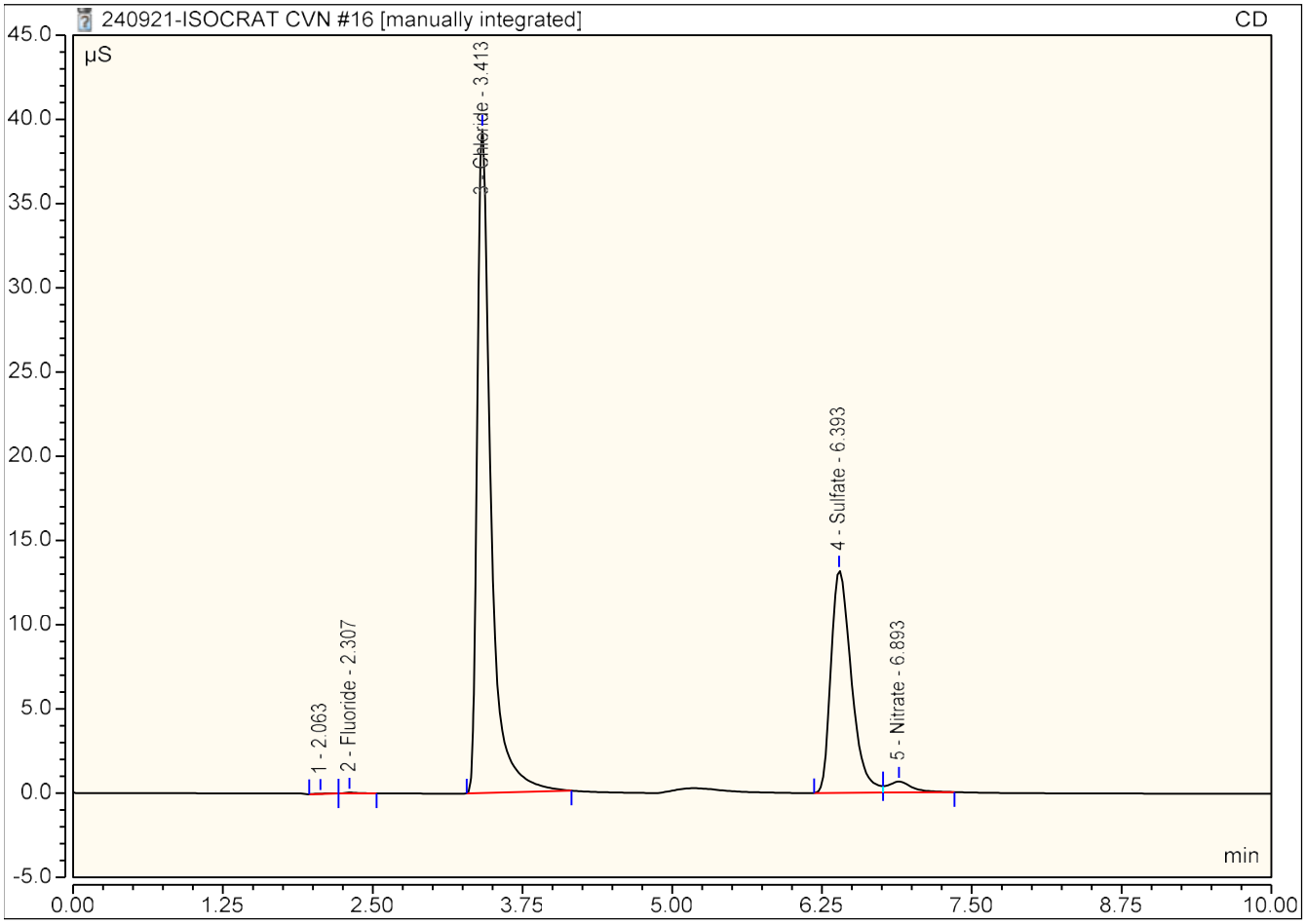
Version 7.2.9.11323

Peak Integration Report

Sample Name:	**L2453576-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 10:10**	*Run Time:*	**10.00**

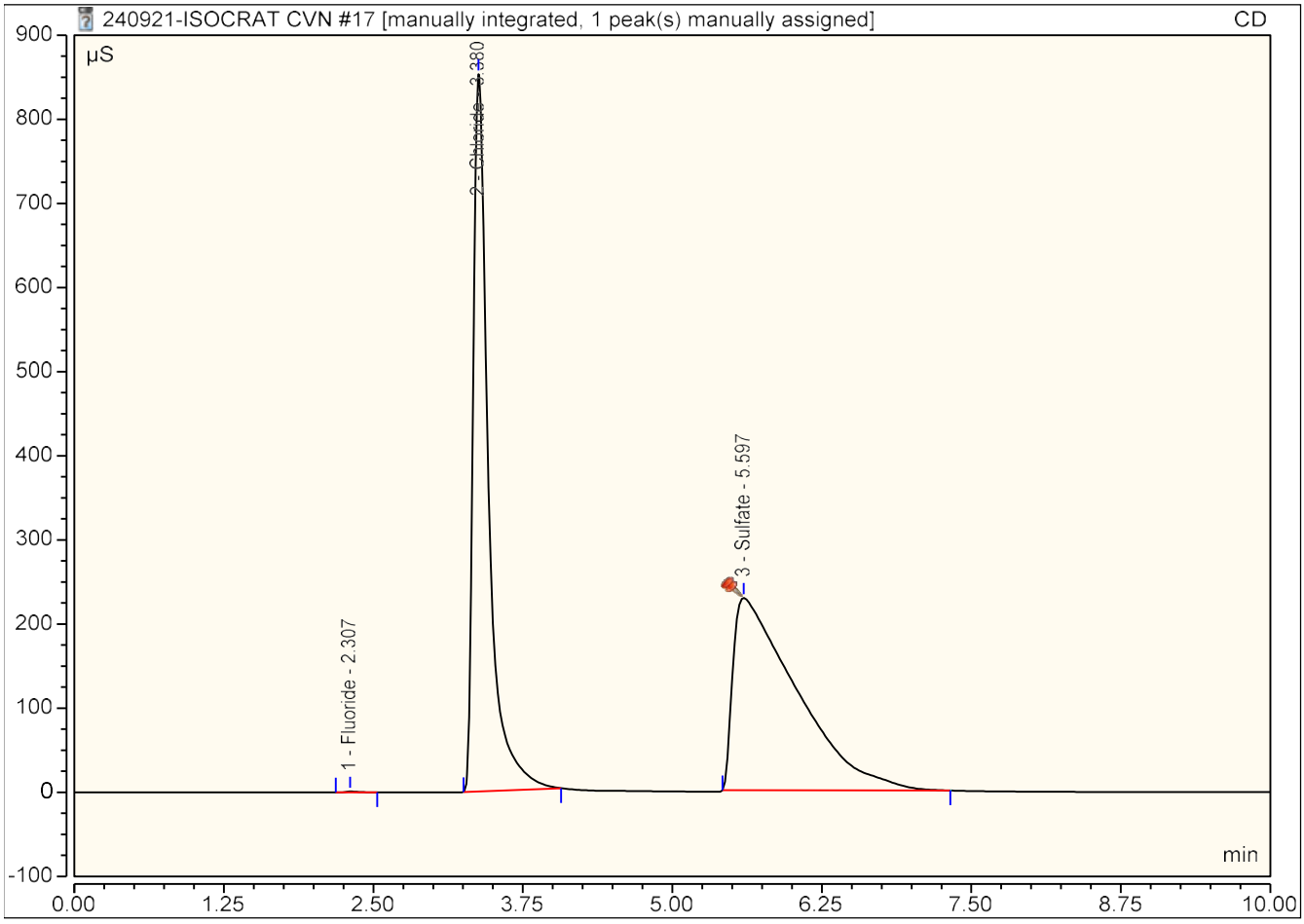
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.007	0.059	0.5751
3	3.41	**Chloride**	BMB*	5.256	39.396	130.3890
4	6.39	**Sulfate**	BM *	2.610	13.198	93.0140
5	6.89	**Nitrate**	MB*	0.152	0.655	1.4458
TOTAL:				8.03	53.31	225.42



Peak Integration Report

Sample Name:	**XL2453576-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 10:22**	*Run Time:*	**10.00**

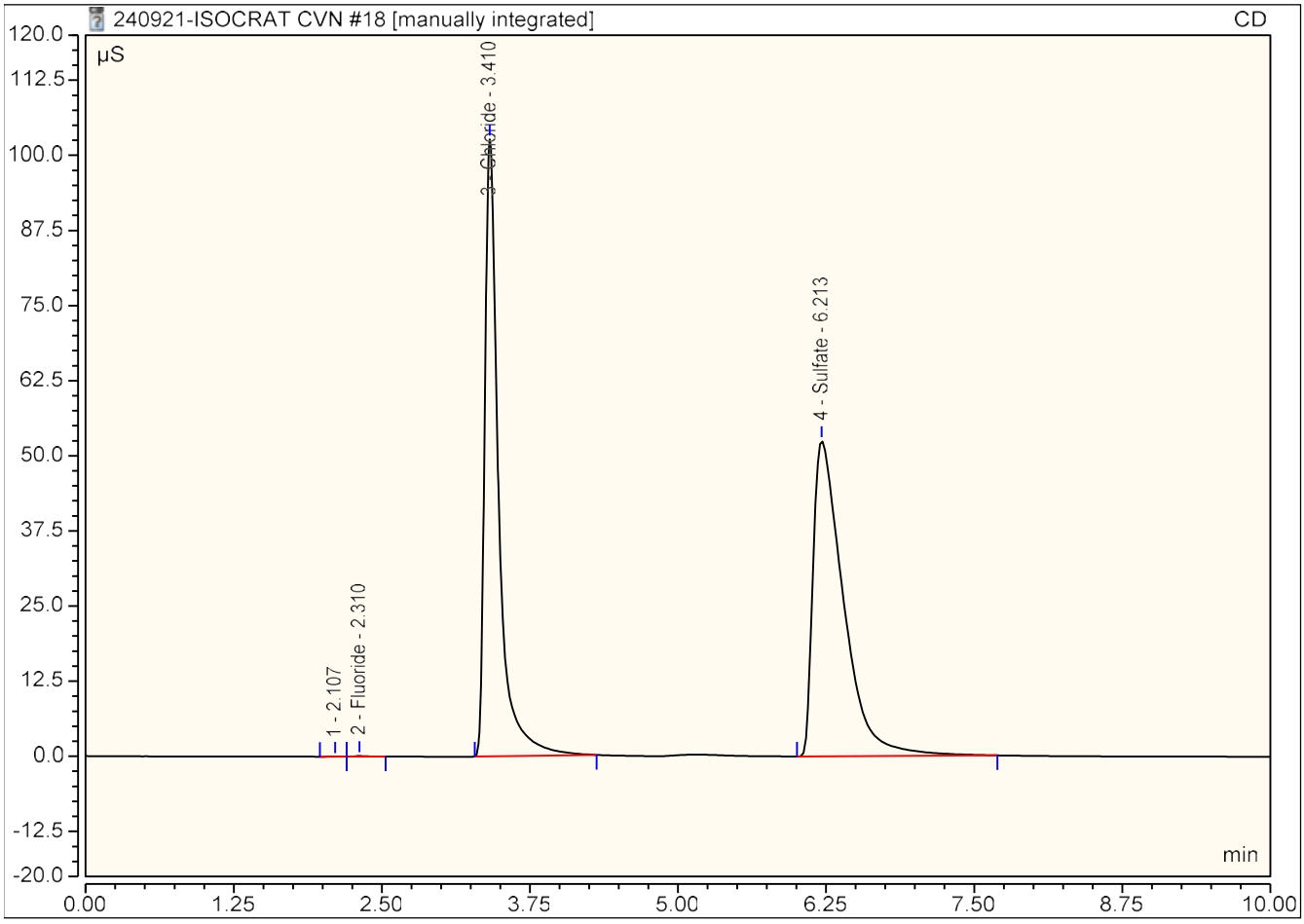
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.115	0.989	0.2533
2	3.38	**Chloride**	BMB*	126.275	852.670	308.5046
3	5.60	**Sulfate**	BM *^	141.344	228.890	488.9859
TOTAL:				267.73	1082.55	797.74



Peak Integration Report

Sample Name:	**L2453576-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 10:34**	*Run Time:*	**10.00**

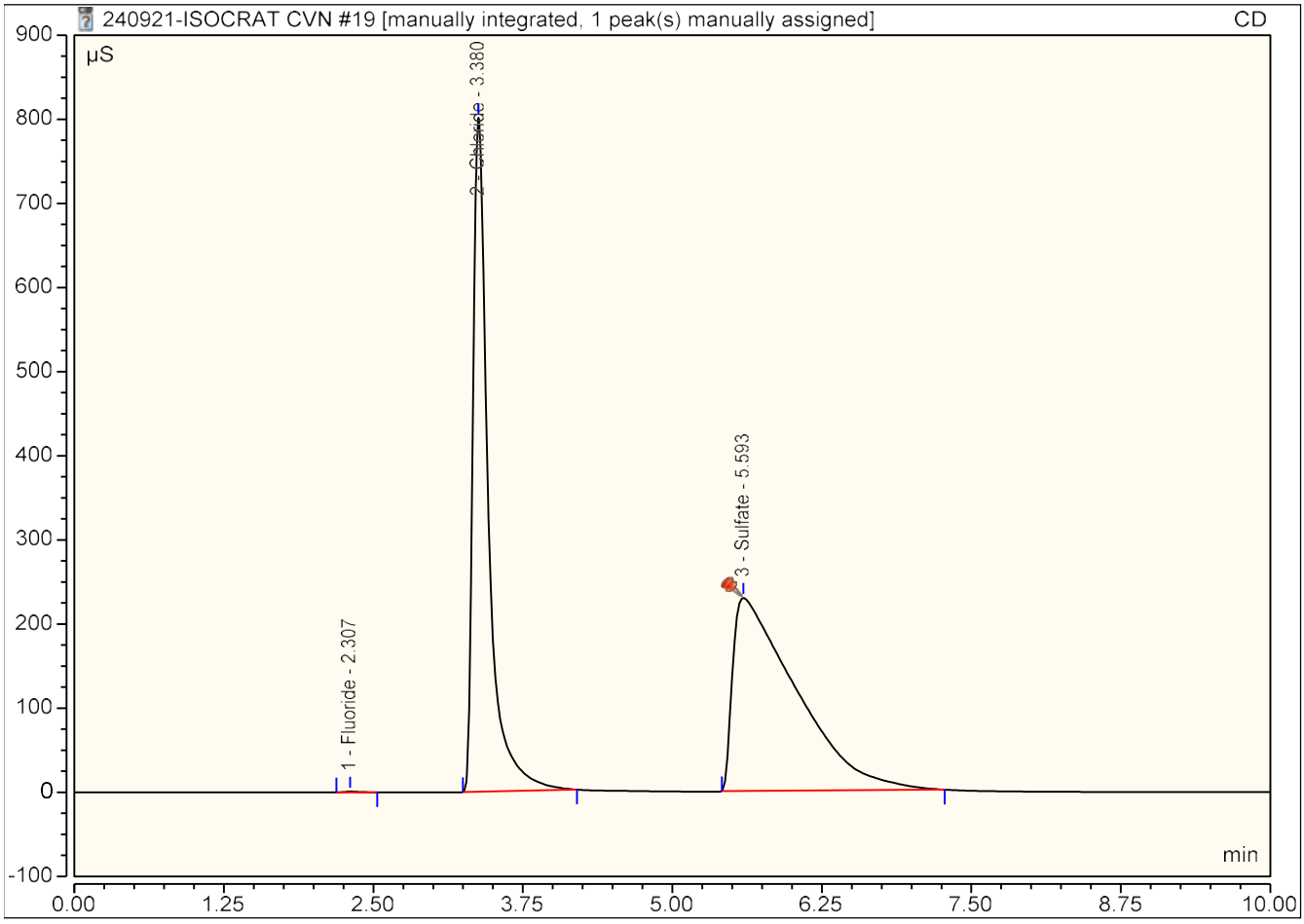
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.012	0.107	0.6718
3	3.41	**Chloride**	BMB*	13.898	102.657	341.3696
4	6.21	**Sulfate**	BMB	15.615	52.500	542.6627
TOTAL:				29.53	155.26	884.70



Peak Integration Report

Sample Name:	**XL2453576-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 10:47**	*Run Time:*	**10.00**

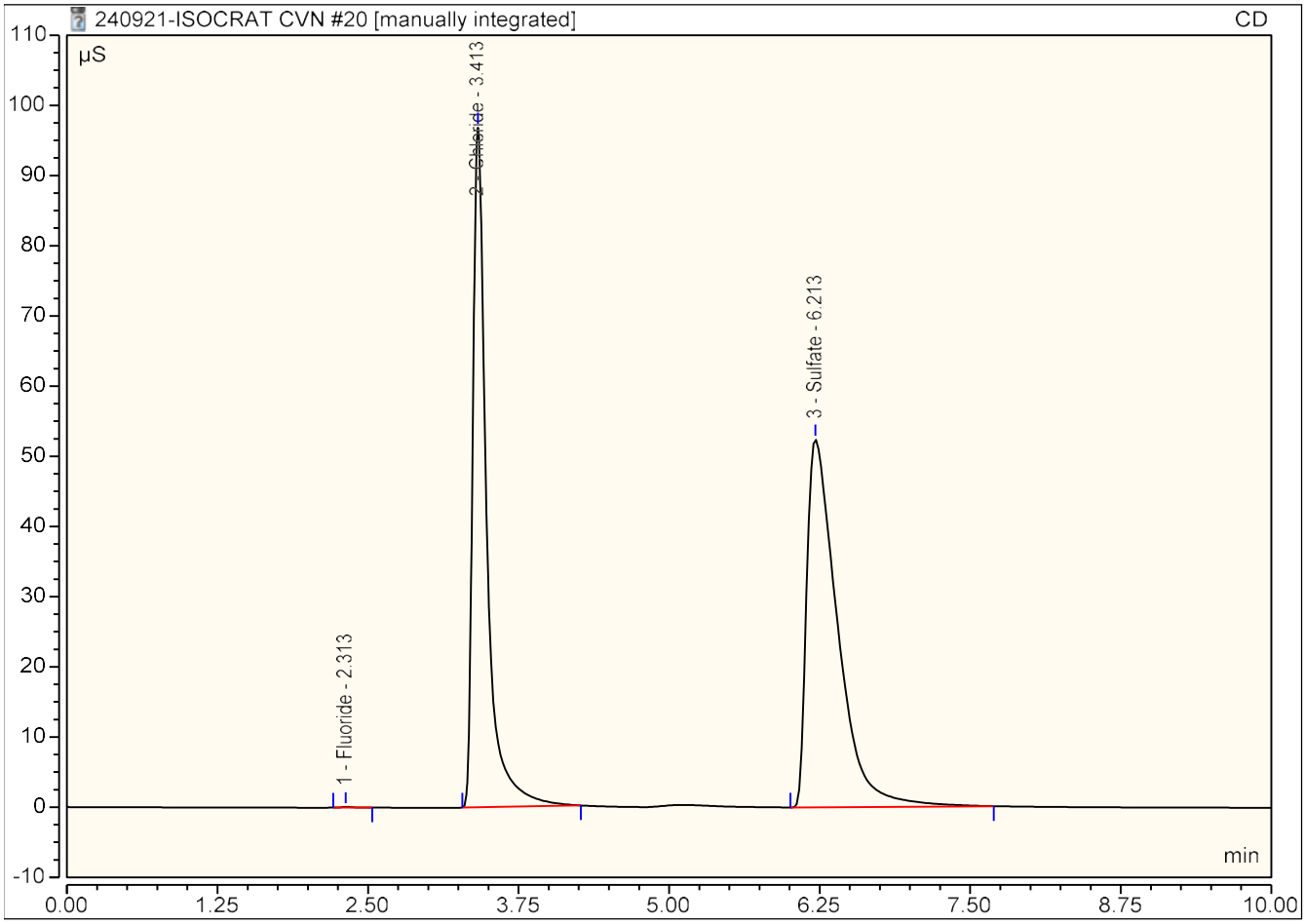
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.121	1.070	0.2657
2	3.38	**Chloride**	BMB*	119.376	801.129	291.6625
3	5.59	**Sulfate**	BMB*^	141.308	229.730	488.8619
TOTAL:				260.81	1031.93	780.79



Peak Integration Report

Sample Name:	**L2453576-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 10:59**	*Run Time:*	**10.00**

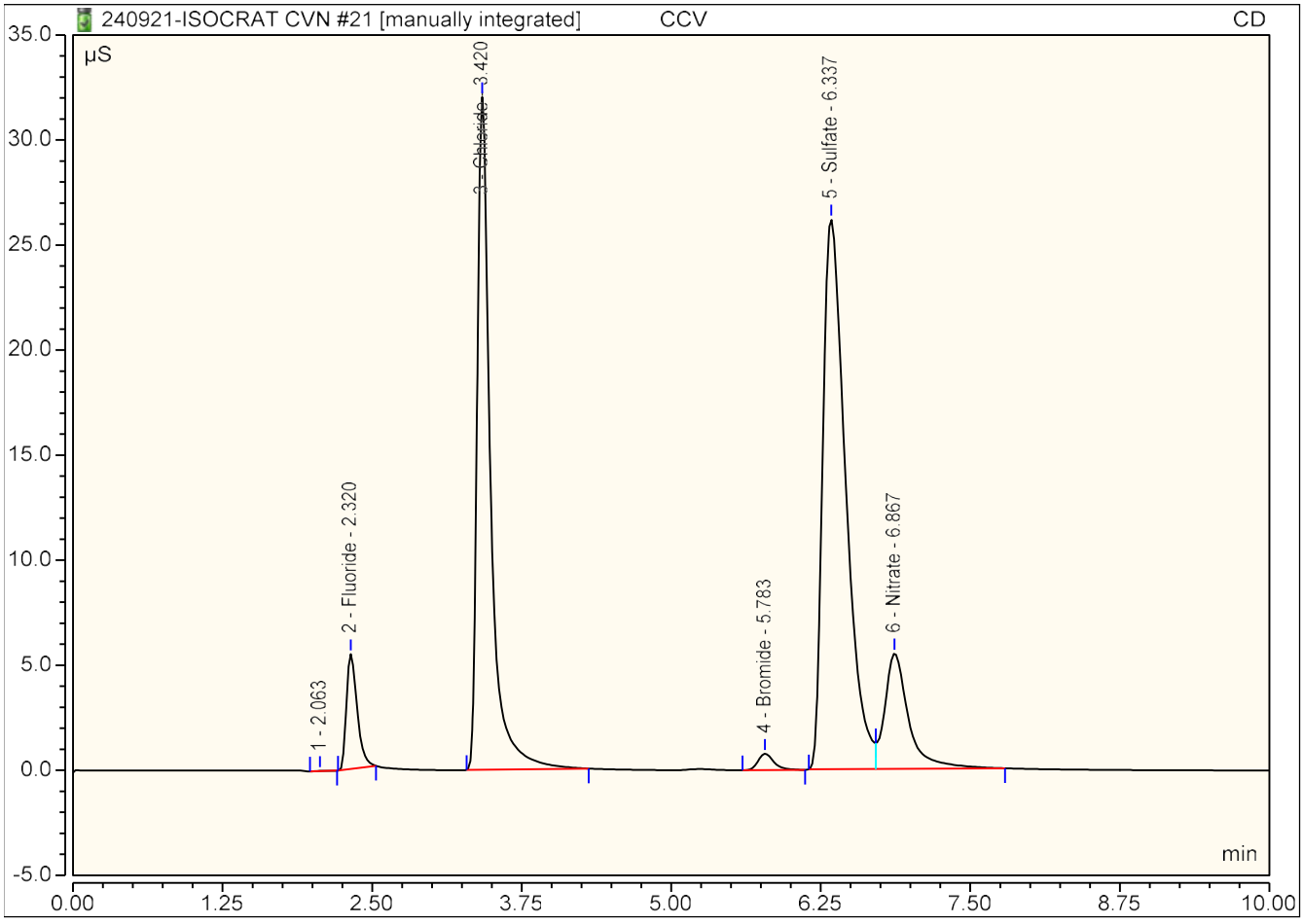
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.012	0.115	0.6679
2	3.41	**Chloride**	BMB*	12.941	96.860	318.0099
3	6.21	**Sulfate**	BMB	15.560	52.426	540.7540
TOTAL:				28.51	149.40	859.43



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 11:11**	*Run Time:*	**10.00**

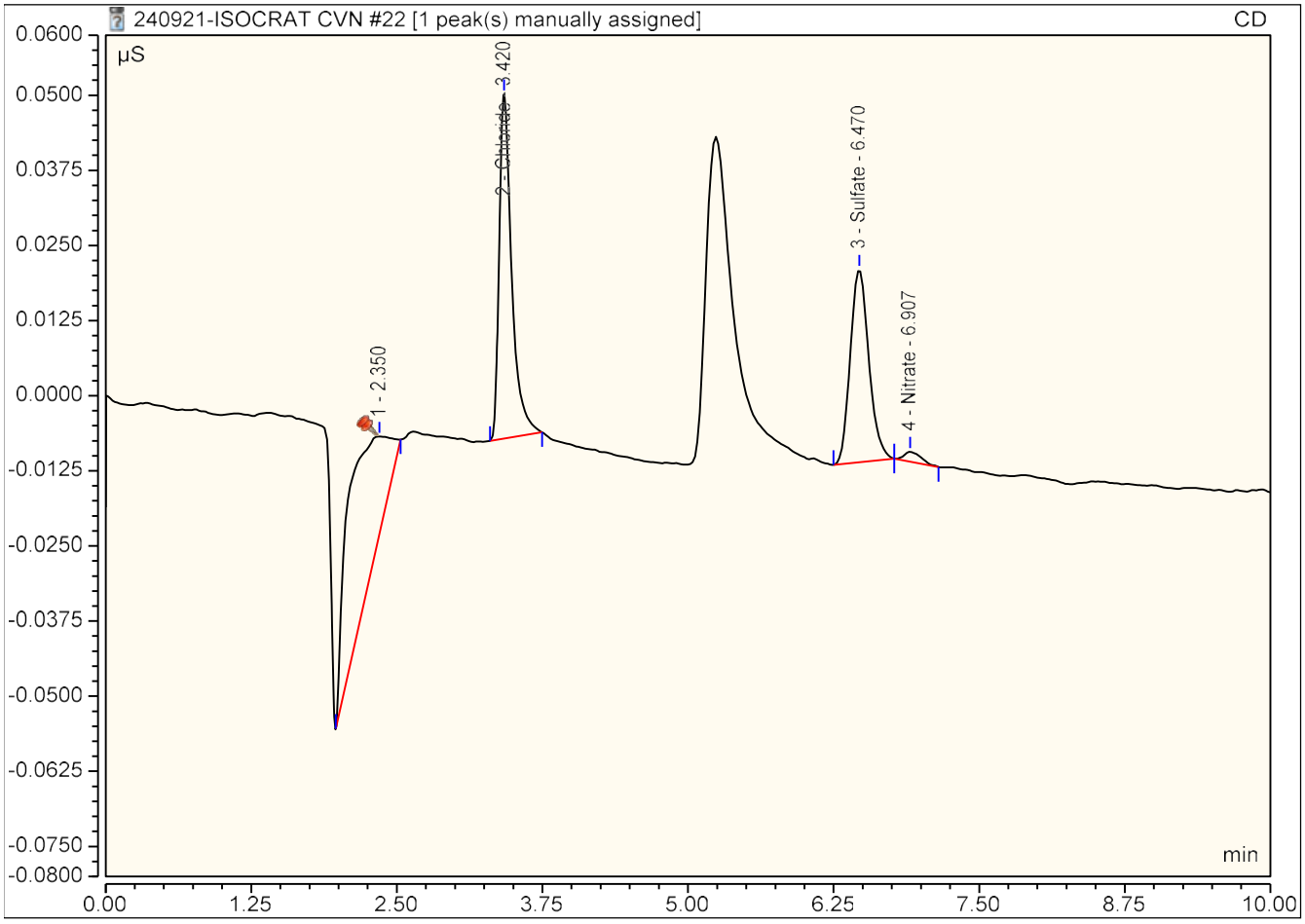
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.567	5.471	1.0783
3	3.42	**Chloride**	BMB*	4.158	32.028	10.3566
4	5.78	**Bromide**	BMB	0.120	0.786	1.0300
5	6.34	**Sulfate**	BM *	5.805	26.170	20.3483
6	6.87	**Nitrate**	MB*	1.271	5.499	1.0214
TOTAL:				11.92	69.95	33.83



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 11:23**	*Run Time:*	**10.00**

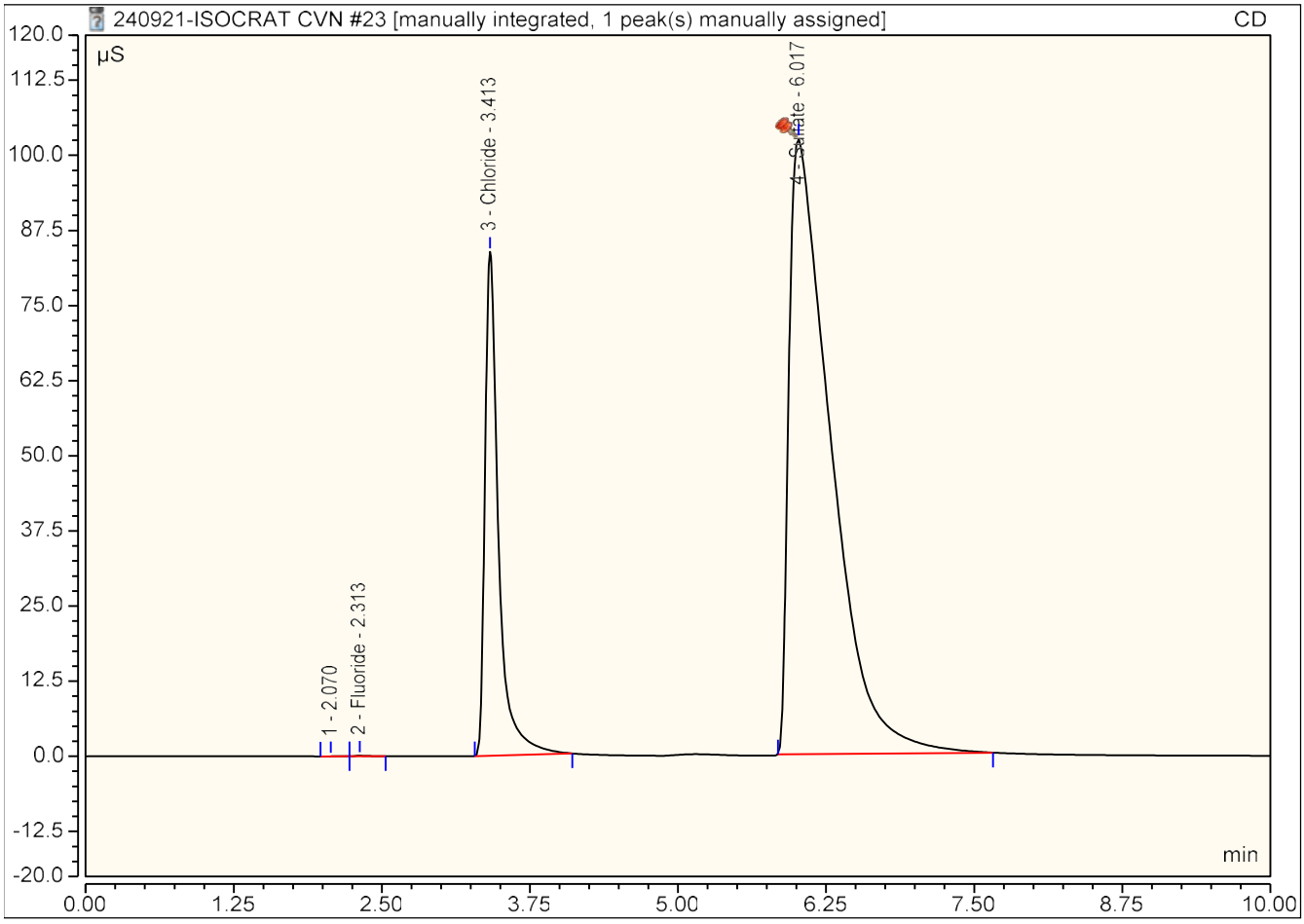
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.007	0.057	0.2229
3	6.47	**Sulfate**	BMB	0.006	0.032	0.2970
4	6.91	**Nitrate**	BMB	0.000	0.002	0.0255
TOTAL:				0.01	0.09	0.55



Peak Integration Report

Sample Name:	**L2453576-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 11:35**	*Run Time:*	**10.00**

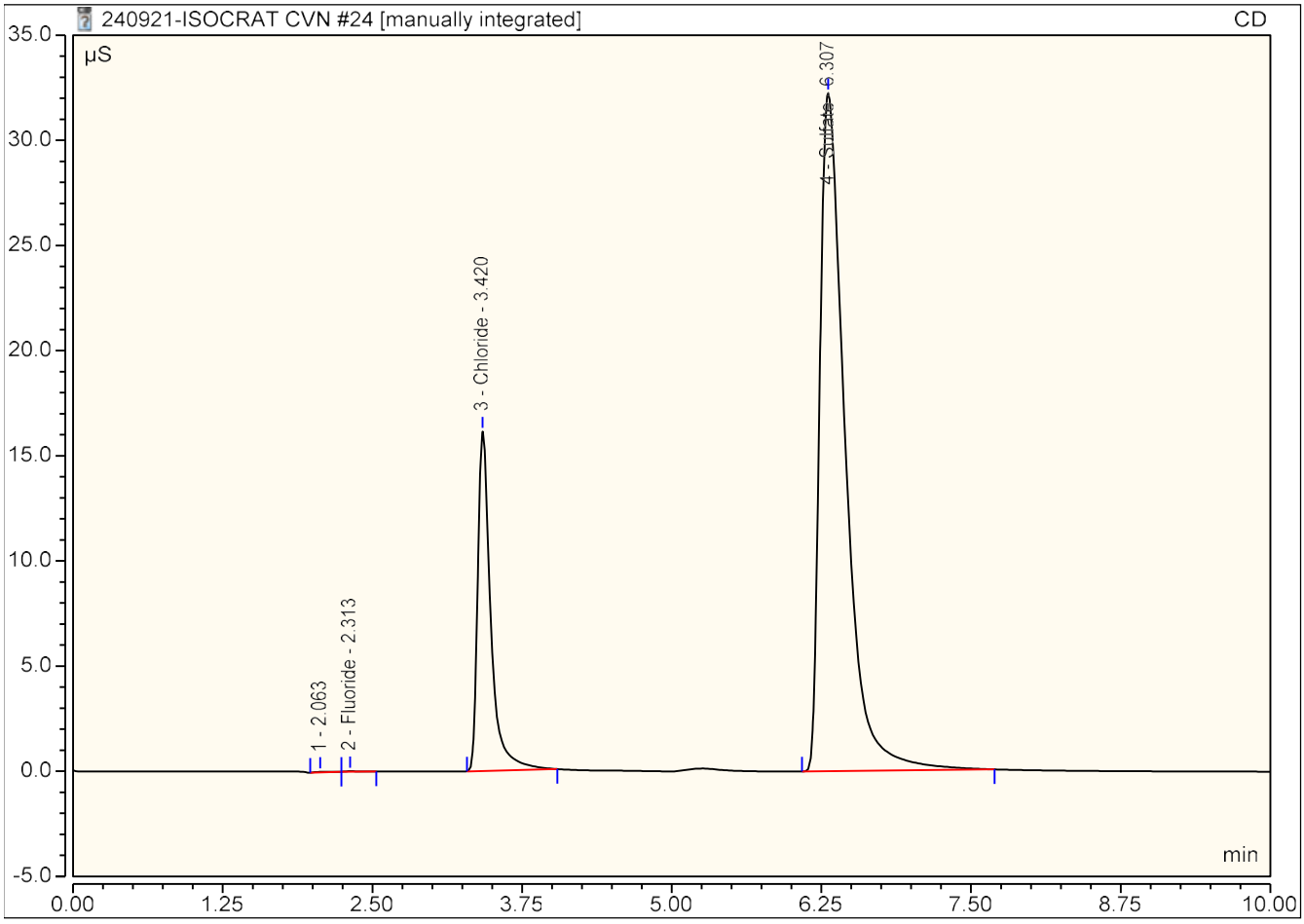
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.012	0.094	0.6571
3	3.41	**Chloride**	BMB*	11.088	83.828	272.7696
4	6.02	**Sulfate**	BMB*^	41.832	102.392	1449.1374
TOTAL:				52.93	186.32	1722.56



Peak Integration Report

Sample Name:	**L2453576-04; 50X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 11:47**	*Run Time:*	**10.00**

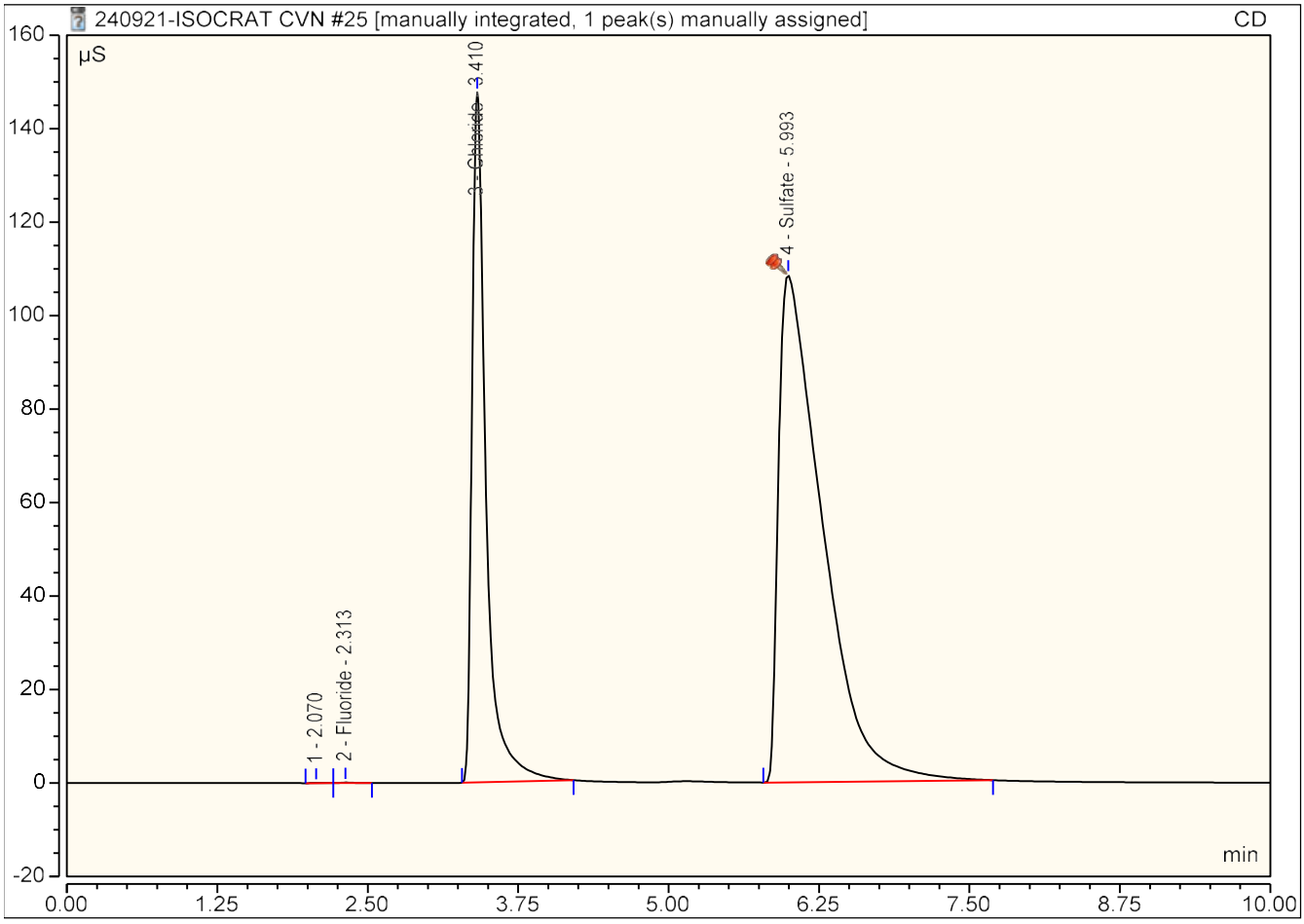
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.002	0.018	2.4382
3	3.42	**Chloride**	BMB*	2.044	16.139	259.7654
4	6.31	**Sulfate**	BMB	7.910	32.236	1381.3515
TOTAL:				9.96	48.39	1643.56



Peak Integration Report

Sample Name:	**L2453576-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 11:59**	*Run Time:*	**10.00**

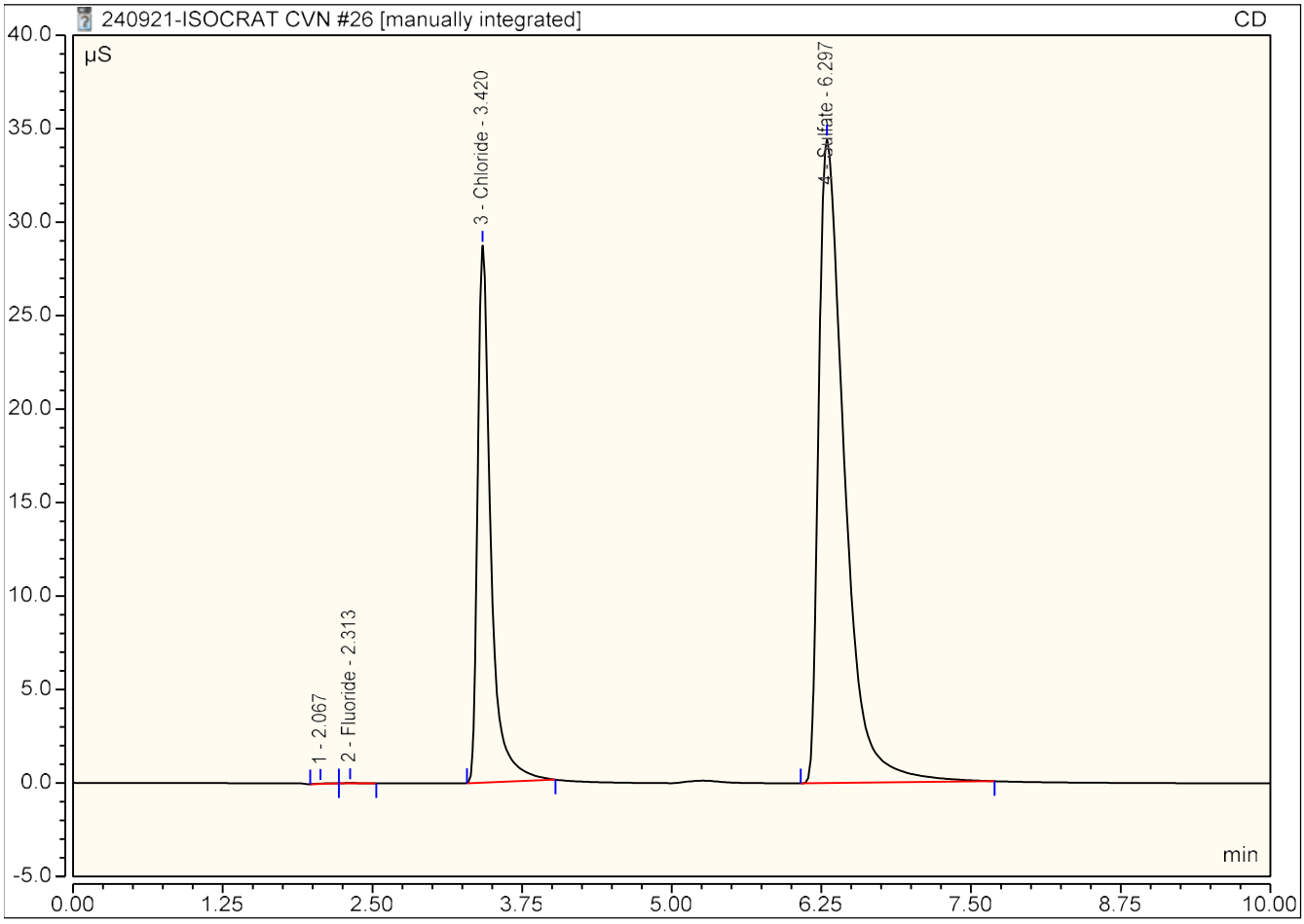
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.012	0.106	0.6623
3	3.41	**Chloride**	BMB*	19.932	147.645	488.7026
4	5.99	**Sulfate**	BMB^	45.866	108.552	1588.6133
TOTAL:				65.81	256.30	2077.98



Peak Integration Report

Sample Name:	**L2453576-05; 50X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**50.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 12:11**	*Run Time:*	**10.00**

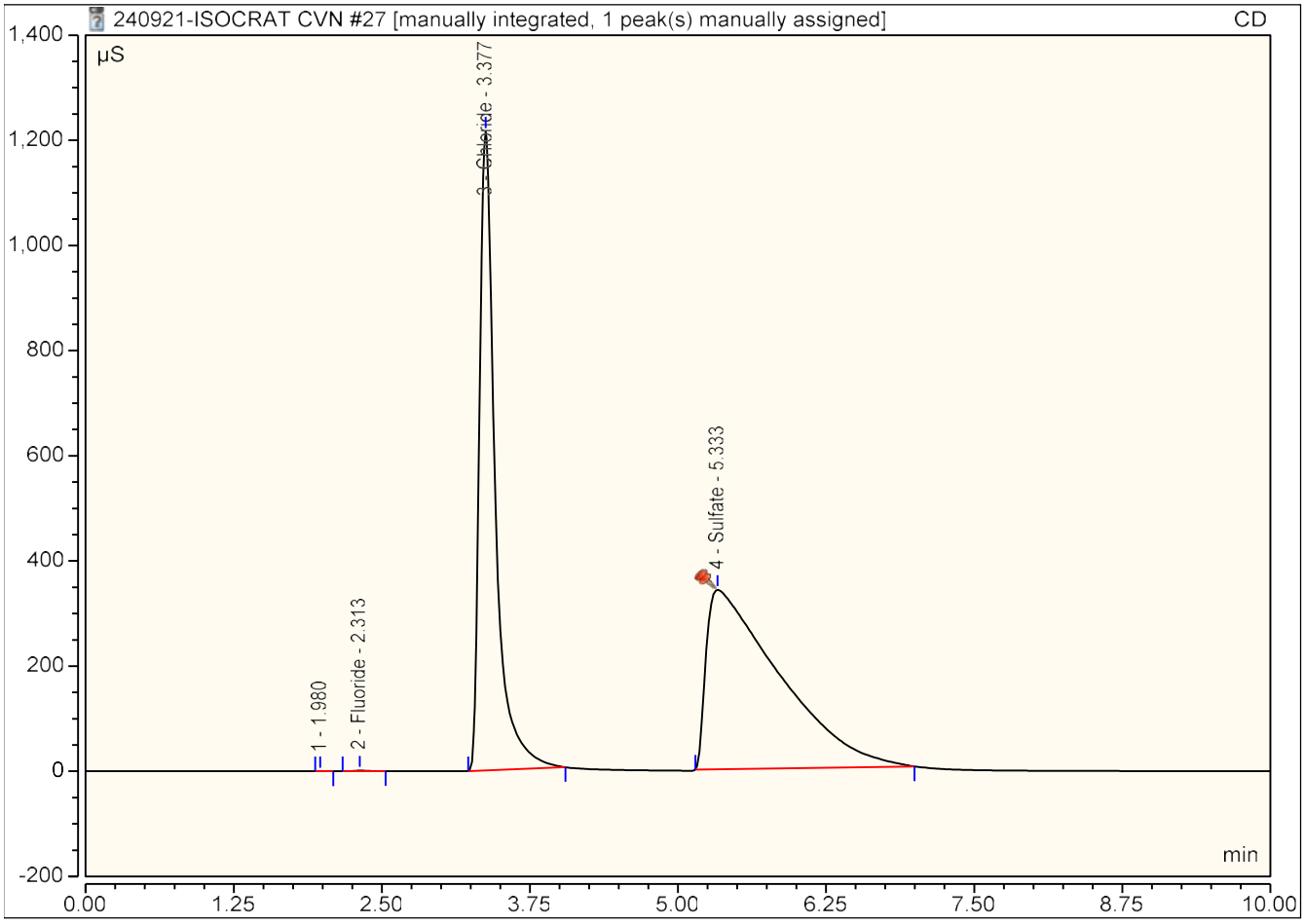
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.003	0.020	2.4527
3	3.42	**Chloride**	BMB*	3.678	28.721	459.3308
4	6.30	**Sulfate**	BMB	8.624	34.440	1504.7860
TOTAL:				12.31	63.18	1966.57



Peak Integration Report

Sample Name:	**XL2453576-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 12:23**	*Run Time:*	**10.00**

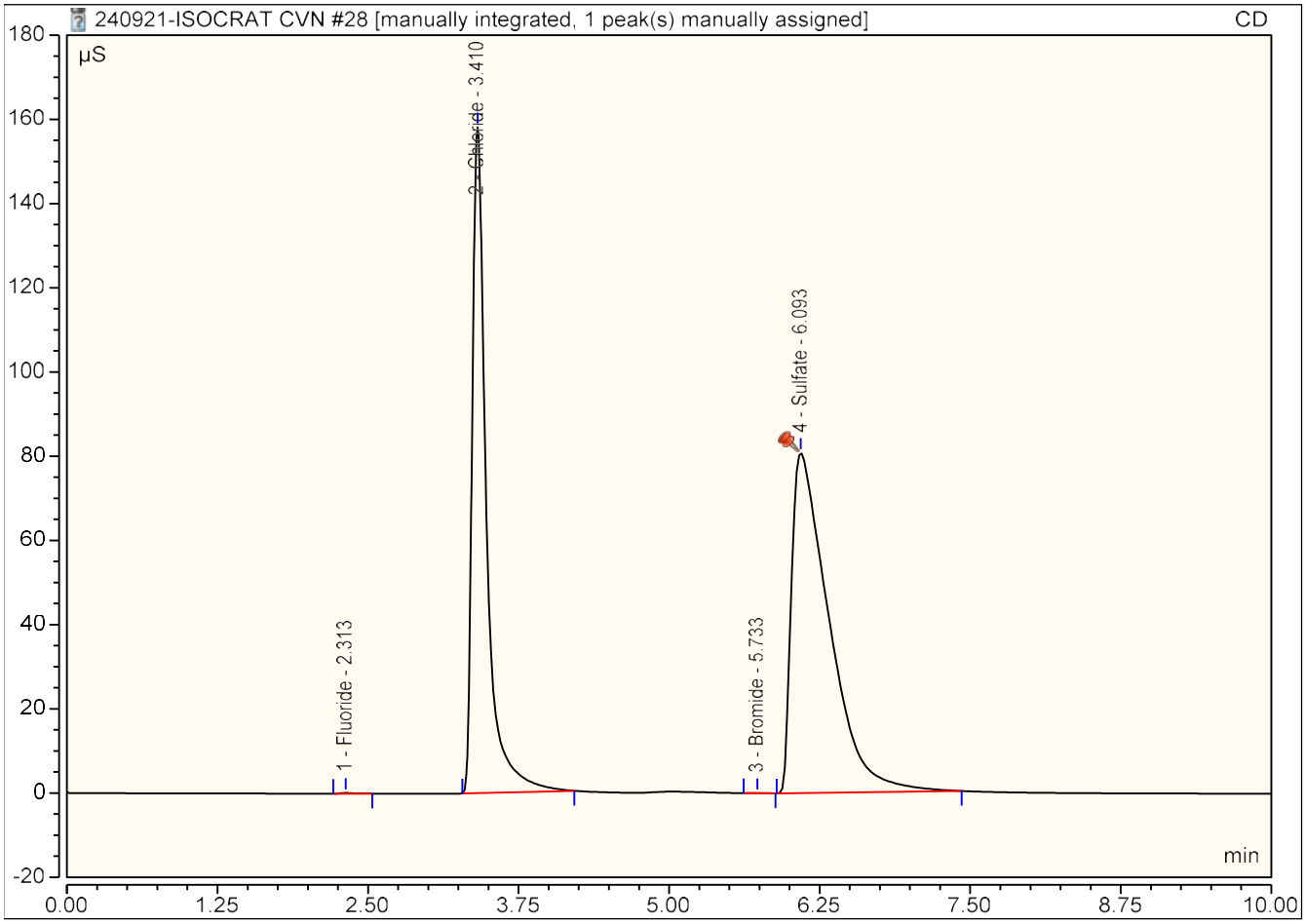
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.179	1.312	0.3702
3	3.38	**Chloride**	BMB*	186.387	1214.660	455.2689
4	5.33	**Sulfate**	BMB*^	243.821	341.499	843.3111
TOTAL:				430.39	1557.47	1298.95



Peak Integration Report

Sample Name:	**XL2453576-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 12:35**	*Run Time:*	**10.00**

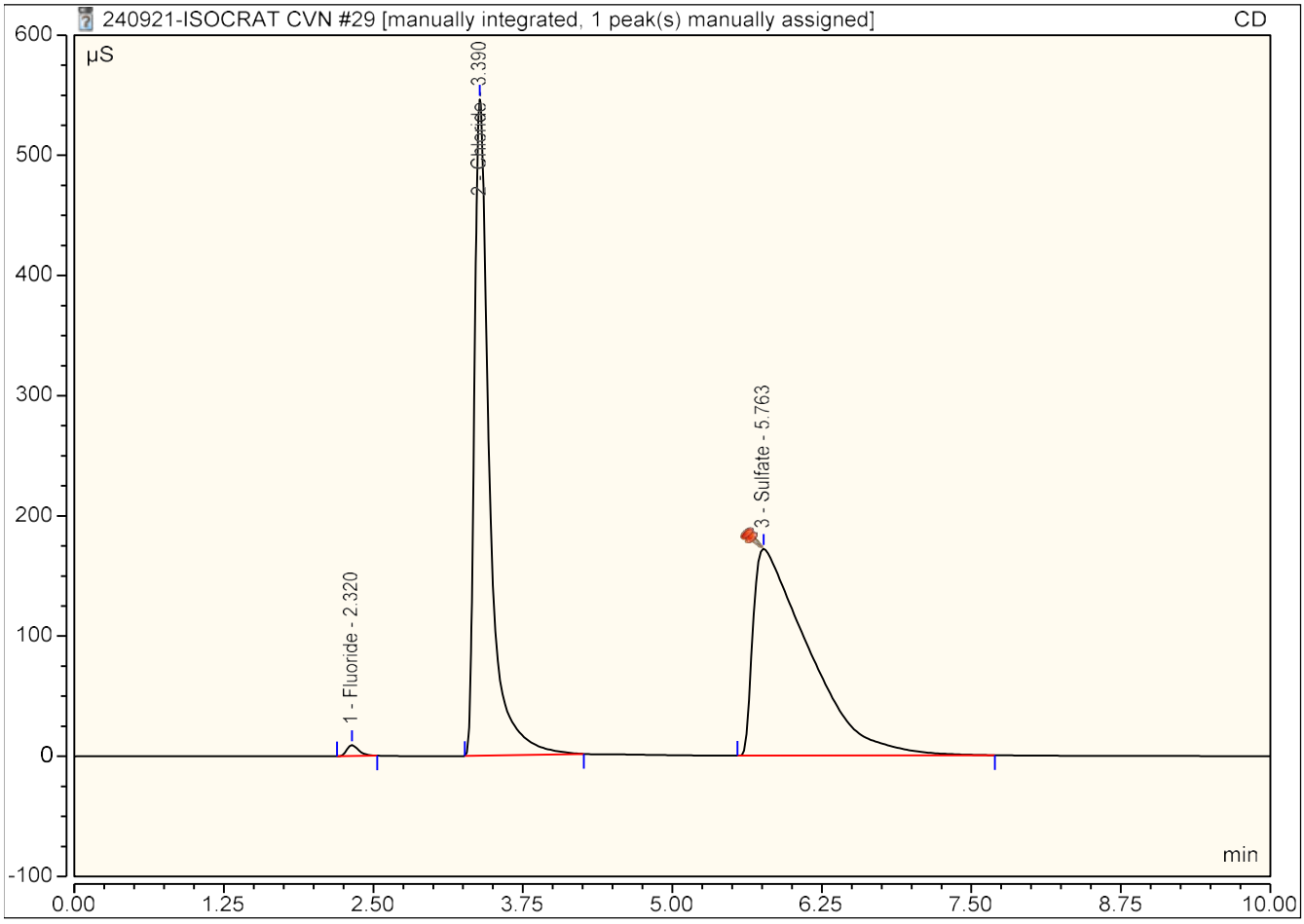
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.31	**Fluoride**	BMB	0.020	0.165	0.8150
2	3.41	**Chloride**	BMB*	21.577	158.110	528.8575
3	5.73	**Bromide**	BMB	0.007	0.055	0.9222
4	6.09	**Sulfate**	BMB^	29.104	80.797	1009.0776
TOTAL:				50.71	239.13	1539.67



Peak Integration Report

Sample Name:	**XL2453753-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 12:47**	*Run Time:*	**10.00**

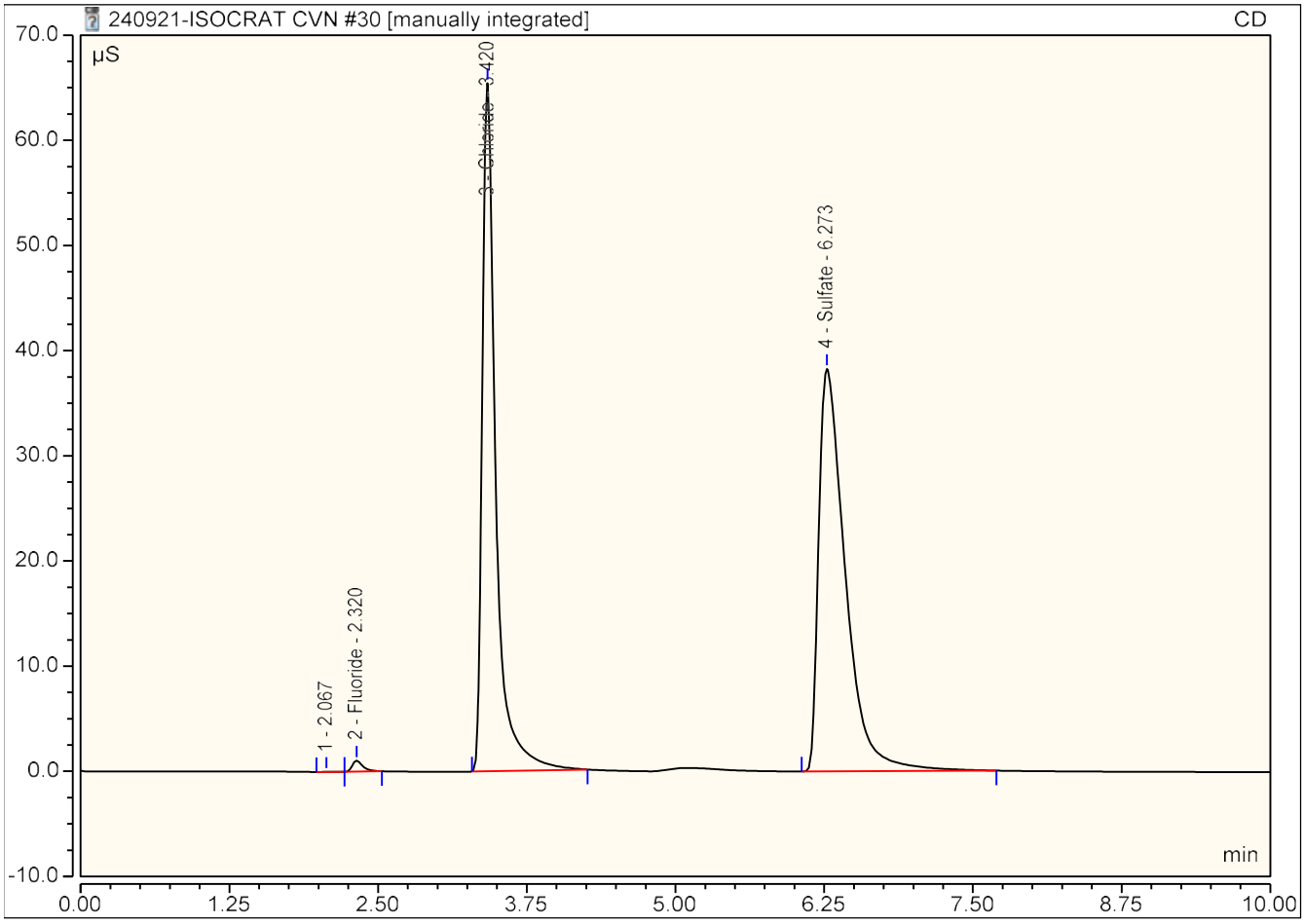
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	1.067	9.172	1.9899
2	3.39	**Chloride**	BMB*	80.139	545.991	195.8643
3	5.76	**Sulfate**	BMB^	92.887	172.157	321.4408
TOTAL:				174.09	727.32	519.29



Peak Integration Report

Sample Name:	**L2453576-07; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 13:00**	*Run Time:*	**10.00**

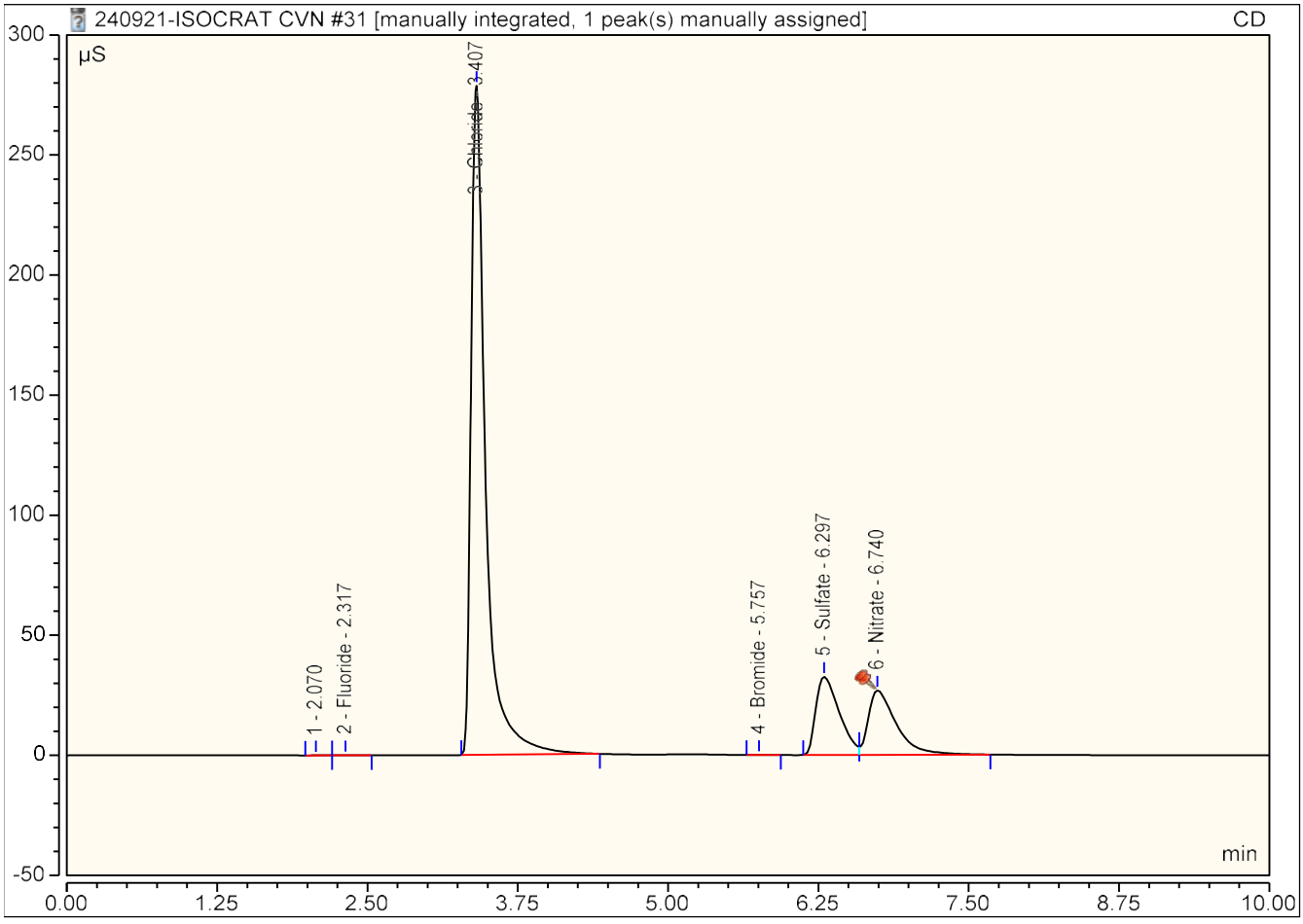
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.106	1.035	2.3795
3	3.42	**Chloride**	BMB*	8.629	65.429	212.7340
4	6.27	**Sulfate**	BMB	9.938	38.286	346.3912
TOTAL:				18.67	104.75	561.50



Peak Integration Report

Sample Name:	**L2453711-01 BR CL SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 13:12**	*Run Time:*	**10.00**

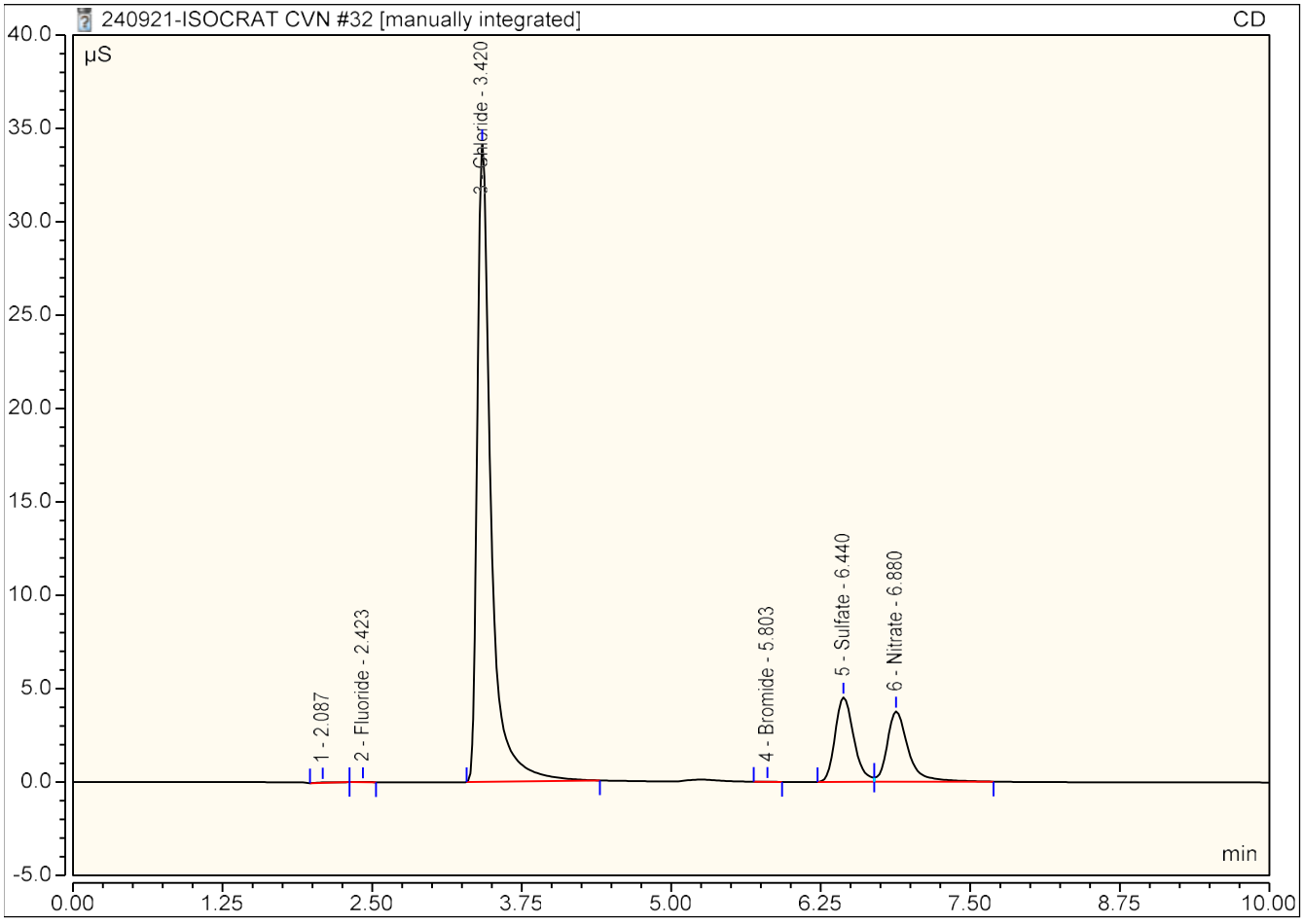
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.005	0.040	0.0531
3	3.41	**Chloride**	BMB*	39.044	278.647	95.5304
4	5.76	**Bromide**	BMB	0.003	0.025	0.0607
5	6.30	**Sulfate**	BM *	7.343	32.514	25.6662
6	6.74	**Nitrate**	MB*^	7.187	26.811	5.6584
TOTAL:				53.58	338.04	126.97



Peak Integration Report

Sample Name:	**L2453711-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 13:24**	*Run Time:*	**10.00**

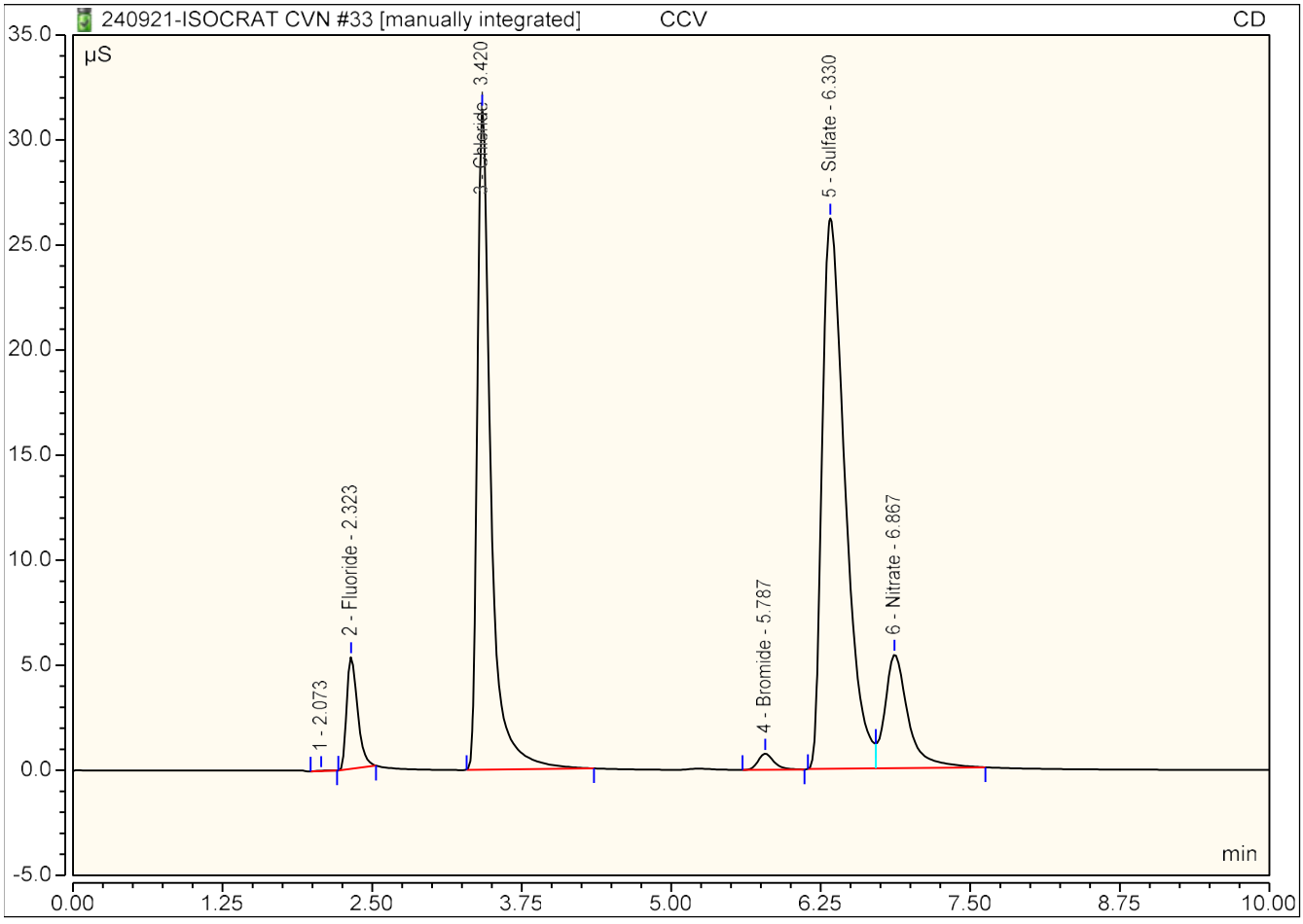
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.001	0.007	0.4568
3	3.42	**Chloride**	BMB*	4.578	34.152	113.8305
4	5.80	**Bromide**	BMB	0.000	0.002	0.3464
5	6.44	**Sulfate**	BM *	0.818	4.529	31.0591
6	6.88	**Nitrate**	MB*	0.769	3.770	6.2764
TOTAL:				6.17	42.46	151.97



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 13:36**	*Run Time:*	**10.00**

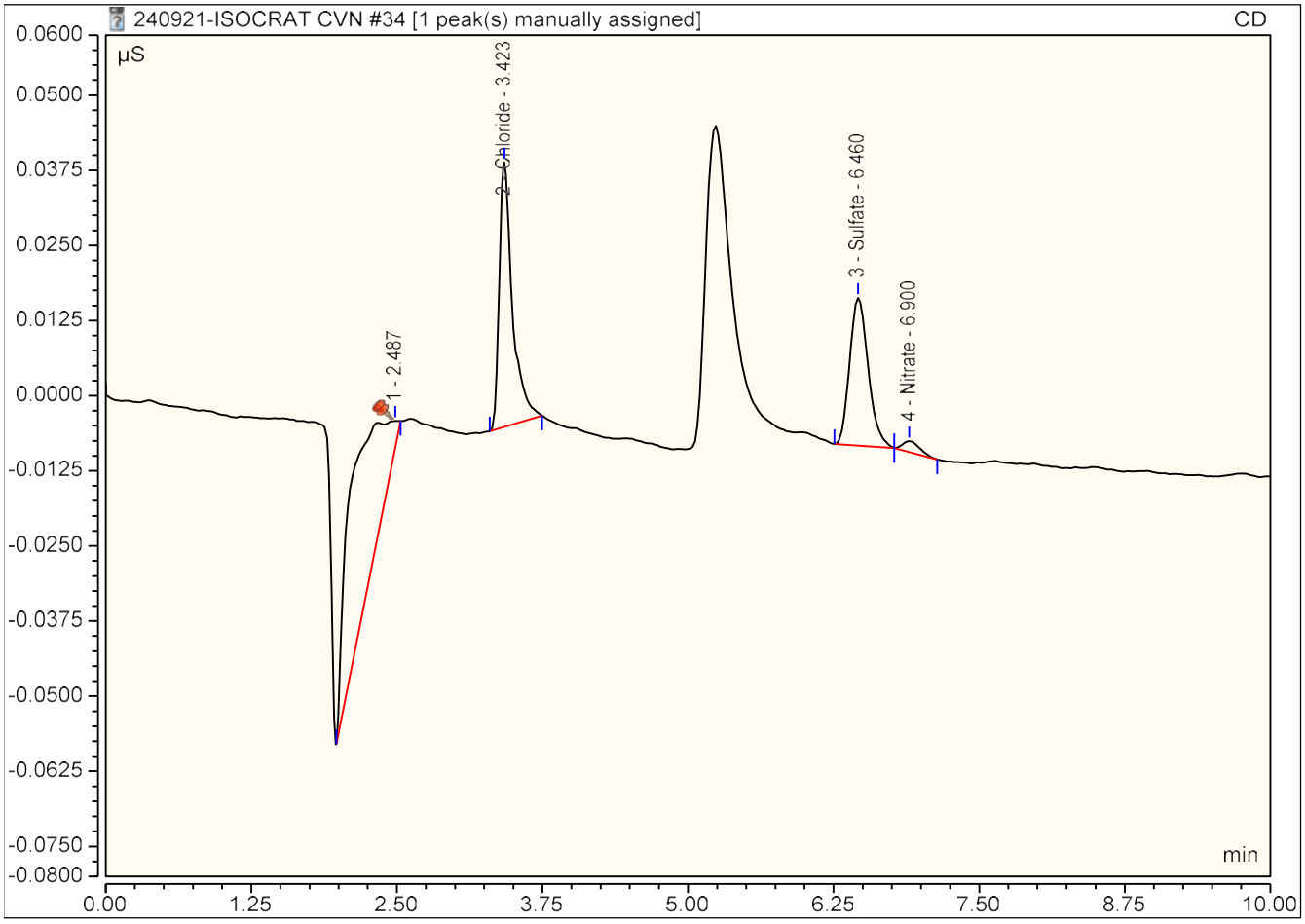
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.560	5.325	1.0661
3	3.42	**Chloride**	BMB*	4.163	31.426	10.3697
4	5.79	**Bromide**	BMB	0.118	0.771	1.0143
5	6.33	**Sulfate**	BM *	5.816	26.193	20.3865
6	6.87	**Nitrate**	MB*	1.221	5.415	0.9824
TOTAL:				11.88	69.13	33.82



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 13:48**	*Run Time:*	**10.00**

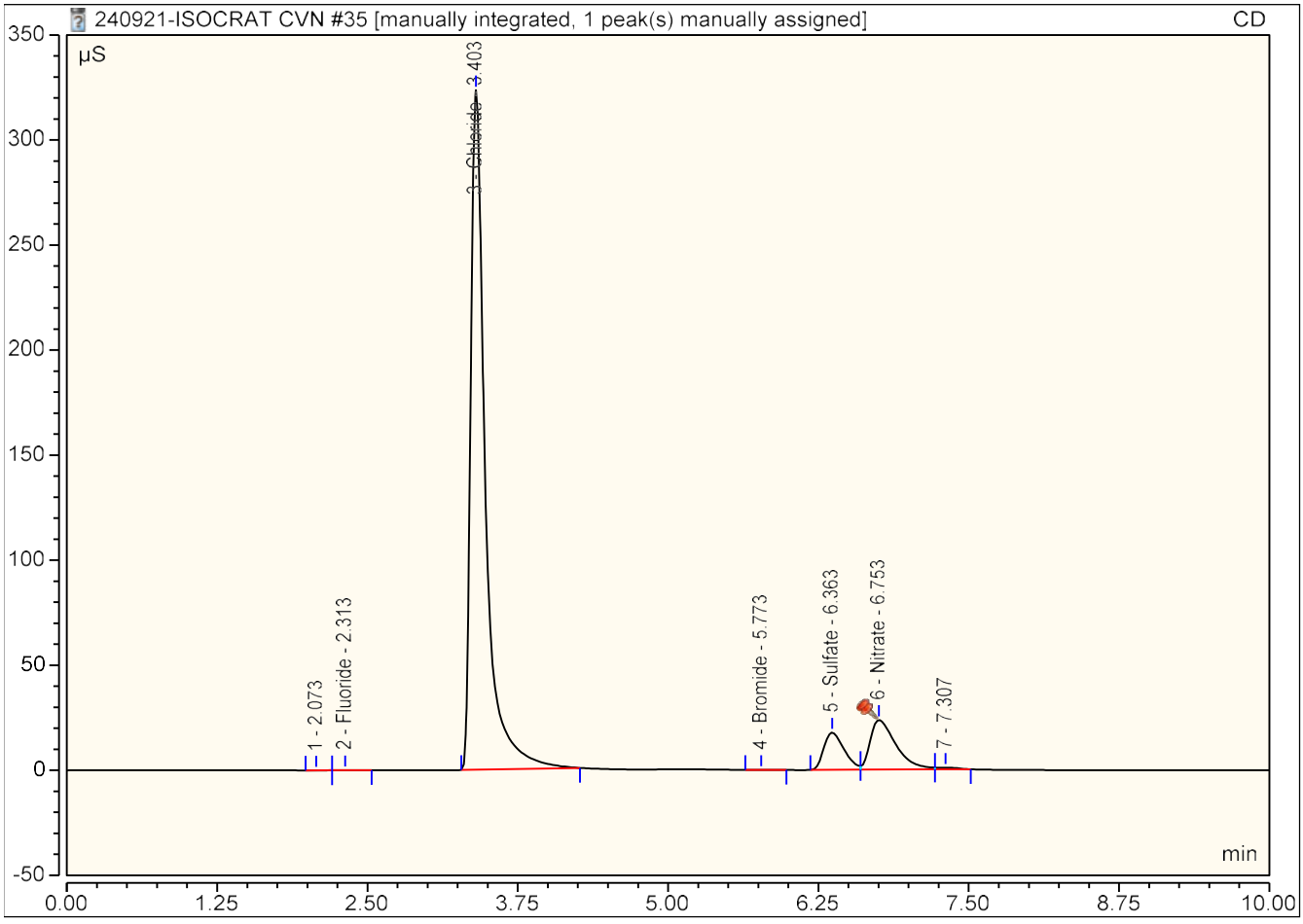
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.006	0.044	0.2196
3	6.46	**Sulfate**	BMB	0.005	0.025	0.2922
4	6.90	**Nitrate**	BMB	0.000	0.002	0.0255
TOTAL:				0.01	0.07	0.54



Peak Integration Report

Sample Name:	**L2453711-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 14:00**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.31	**Fluoride**	BMB	0.008	0.068	0.0588
3	3.40	**Chloride**	BMB*	45.704	323.382	111.7925
4	5.77	**Bromide**	BMB	0.008	0.059	0.1008
5	6.36	**Sulfate**	BM *	3.463	17.724	12.2501
6	6.75	**Nitrate**	M *^	5.858	23.657	4.6169
TOTAL:				55.04	364.89	128.82



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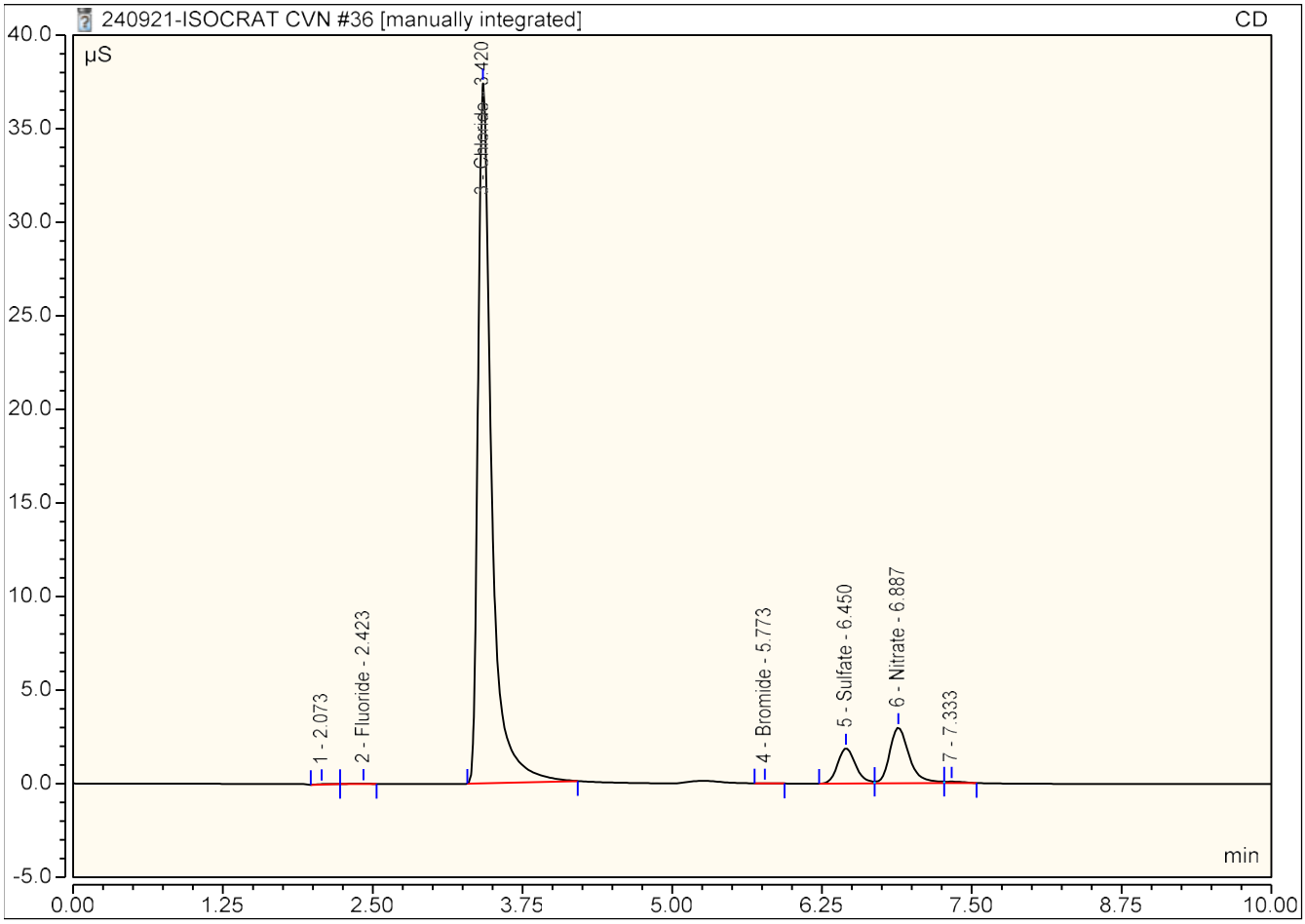
Peak Integration Report

Sample Name:	**L2453711-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 14:12**	*Run Time:*	**10.00**

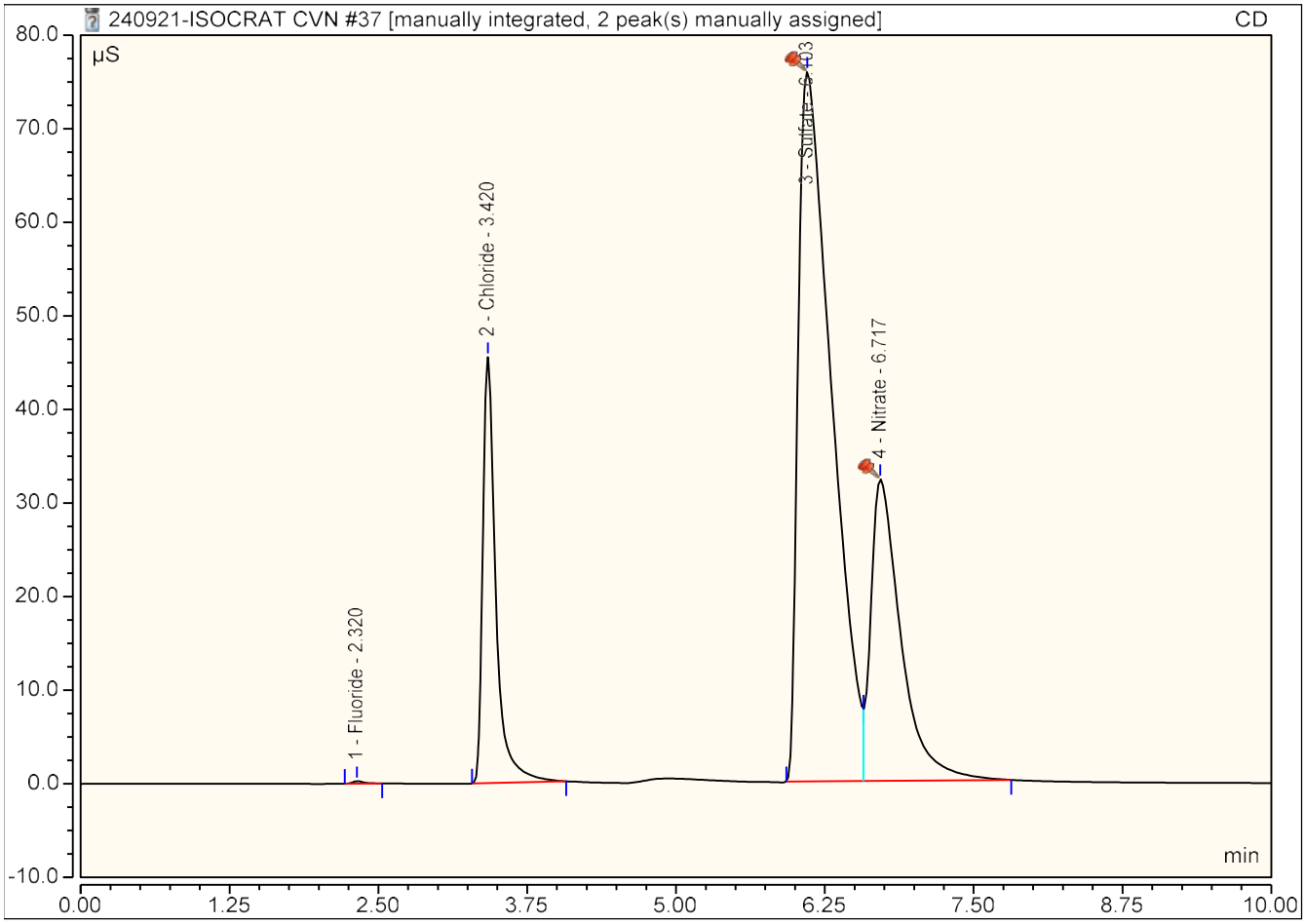
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.002	0.008	0.4737
3	3.42	**Chloride**	BMB*	4.935	37.392	122.5415
4	5.77	**Bromide**	BMB	0.001	0.004	0.3779
5	6.45	**Sulfate**	BM *	0.329	1.881	14.1287
6	6.89	**Nitrate**	M *	0.566	2.965	4.6863
TOTAL:				5.83	42.25	142.21



Peak Integration Report

Sample Name:	**L2453711-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 14:24**	*Run Time:*	**10.00**

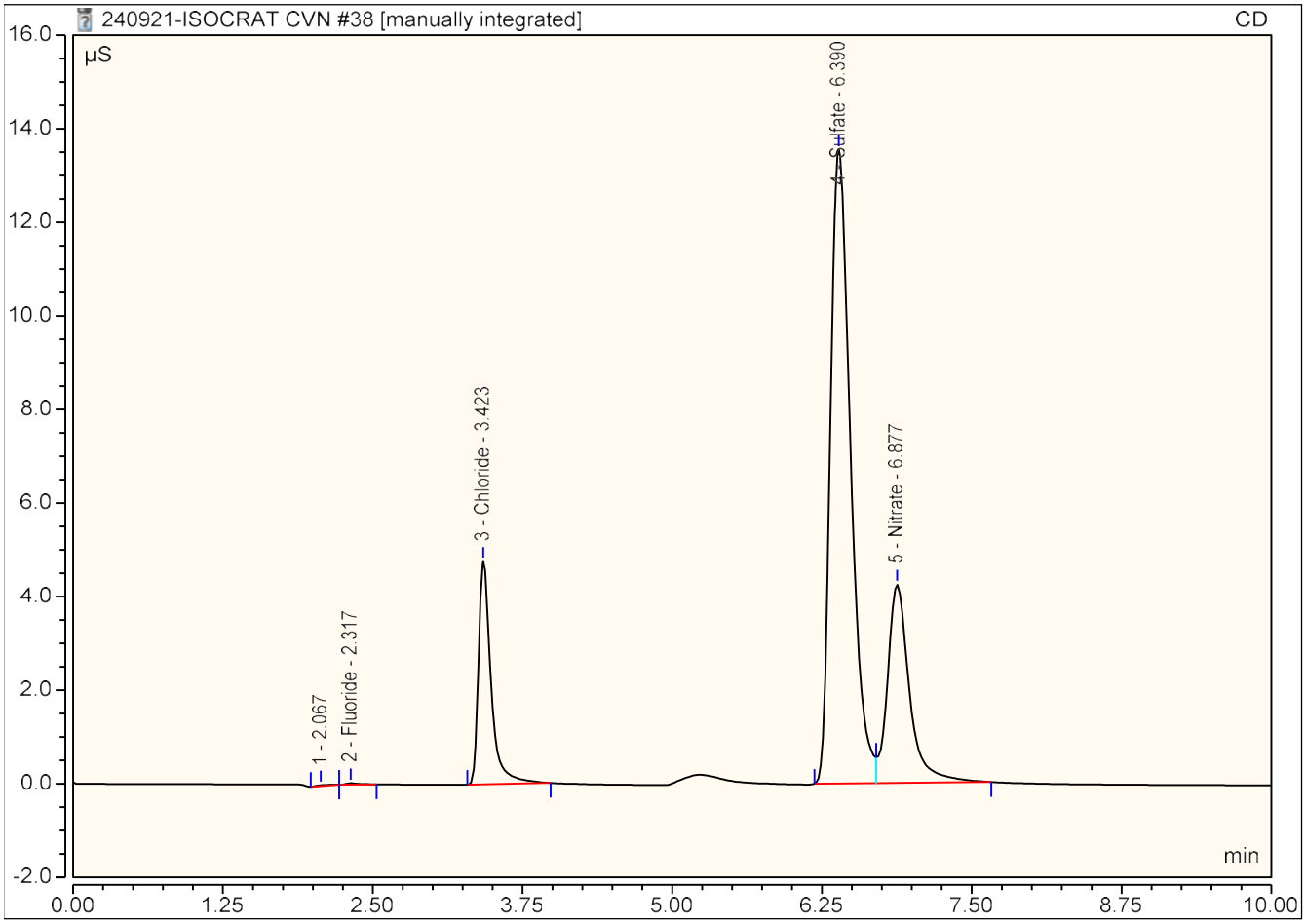
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	0.030	0.270	0.0997
2	3.42	**Chloride**	BMB*	5.815	45.526	14.4029
3	6.10	**Sulfate**	BM *^	24.594	75.819	85.3135
4	6.72	**Nitrate**	MB*^	9.409	32.231	7.4004
TOTAL:				39.85	153.85	107.22



Peak Integration Report

Sample Name:	**XL2453711-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 14:36**	*Run Time:*	**10.00**

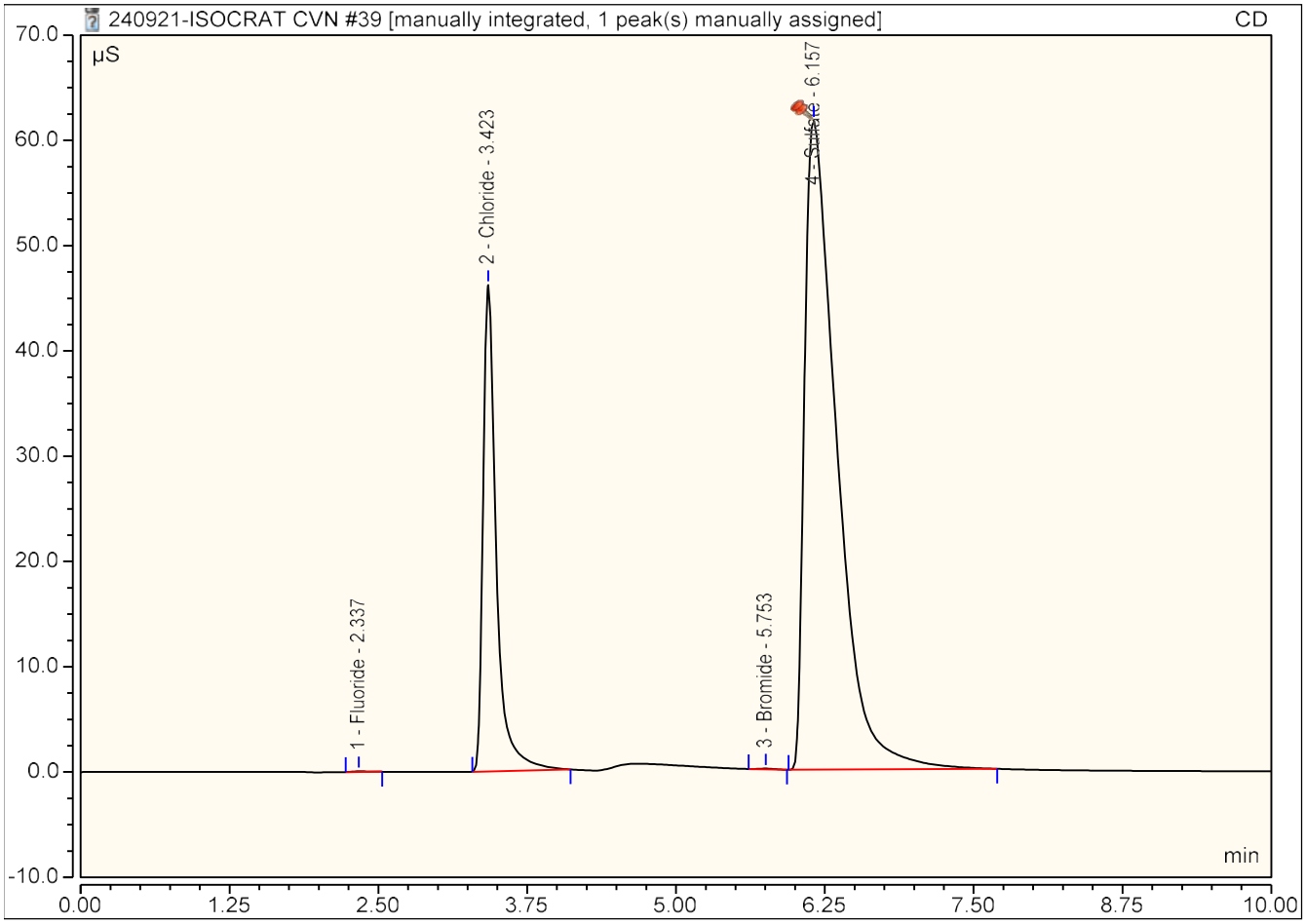
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.004	0.028	0.5094
3	3.42	**Chloride**	BMB*	0.581	4.760	16.2518
4	6.39	**Sulfate**	BM *	2.639	13.546	94.0024
5	6.88	**Nitrate**	MB*	0.902	4.245	7.3193
TOTAL:				4.13	22.58	118.08



Peak Integration Report

Sample Name:	**L2453711-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 14:48**	*Run Time:*	**10.00**

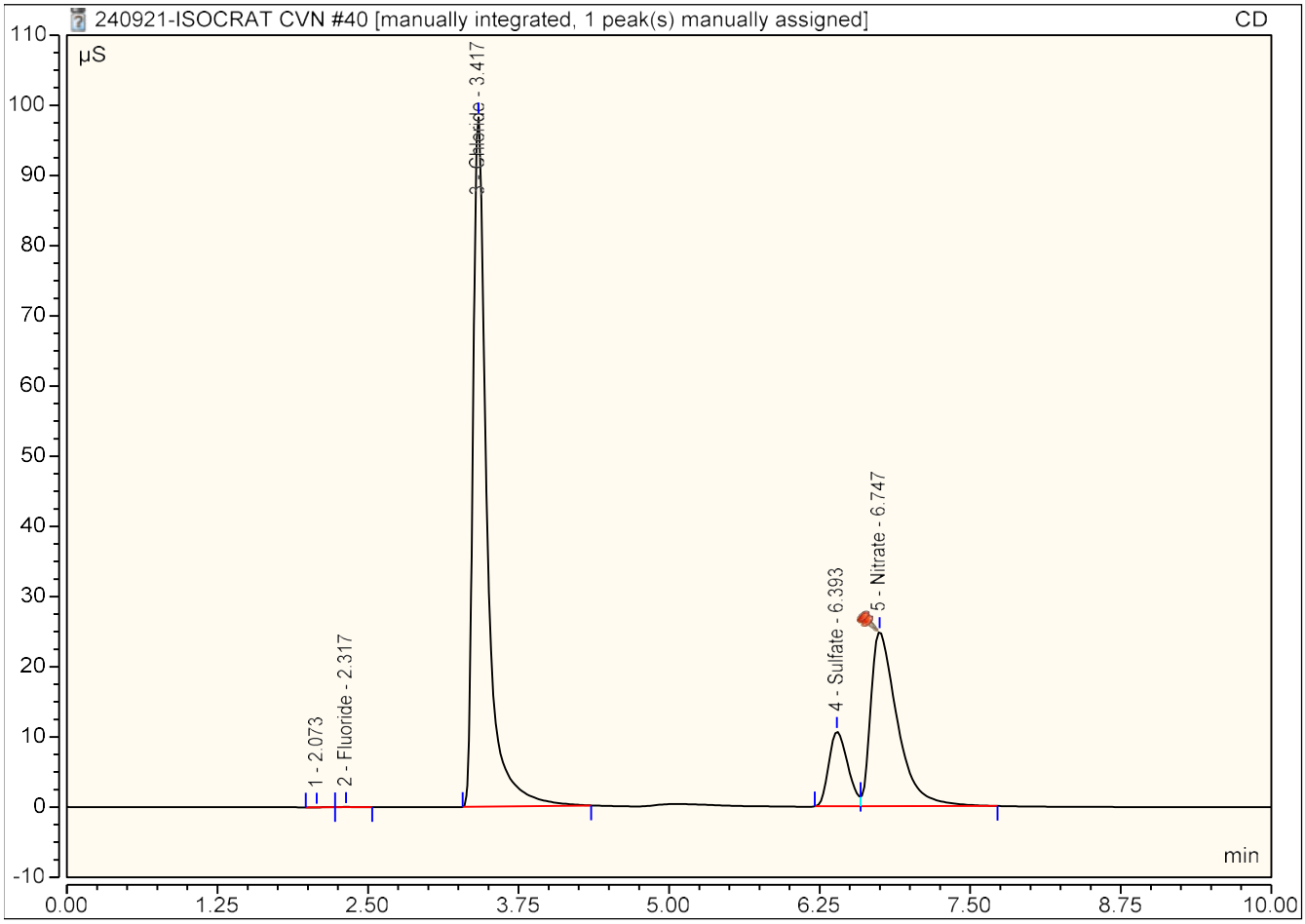
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.34	**Fluoride**	BMB	0.010	0.068	0.0622
2	3.42	**Chloride**	BMB*	5.982	46.208	14.8105
3	5.75	**Bromide**	BMB	0.011	0.075	0.1214
4	6.16	**Sulfate**	BMB^	19.333	61.660	67.1231
TOTAL:				25.34	108.01	82.12



Peak Integration Report

Sample Name:	**L2453711-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 15:00**	*Run Time:*	**10.00**

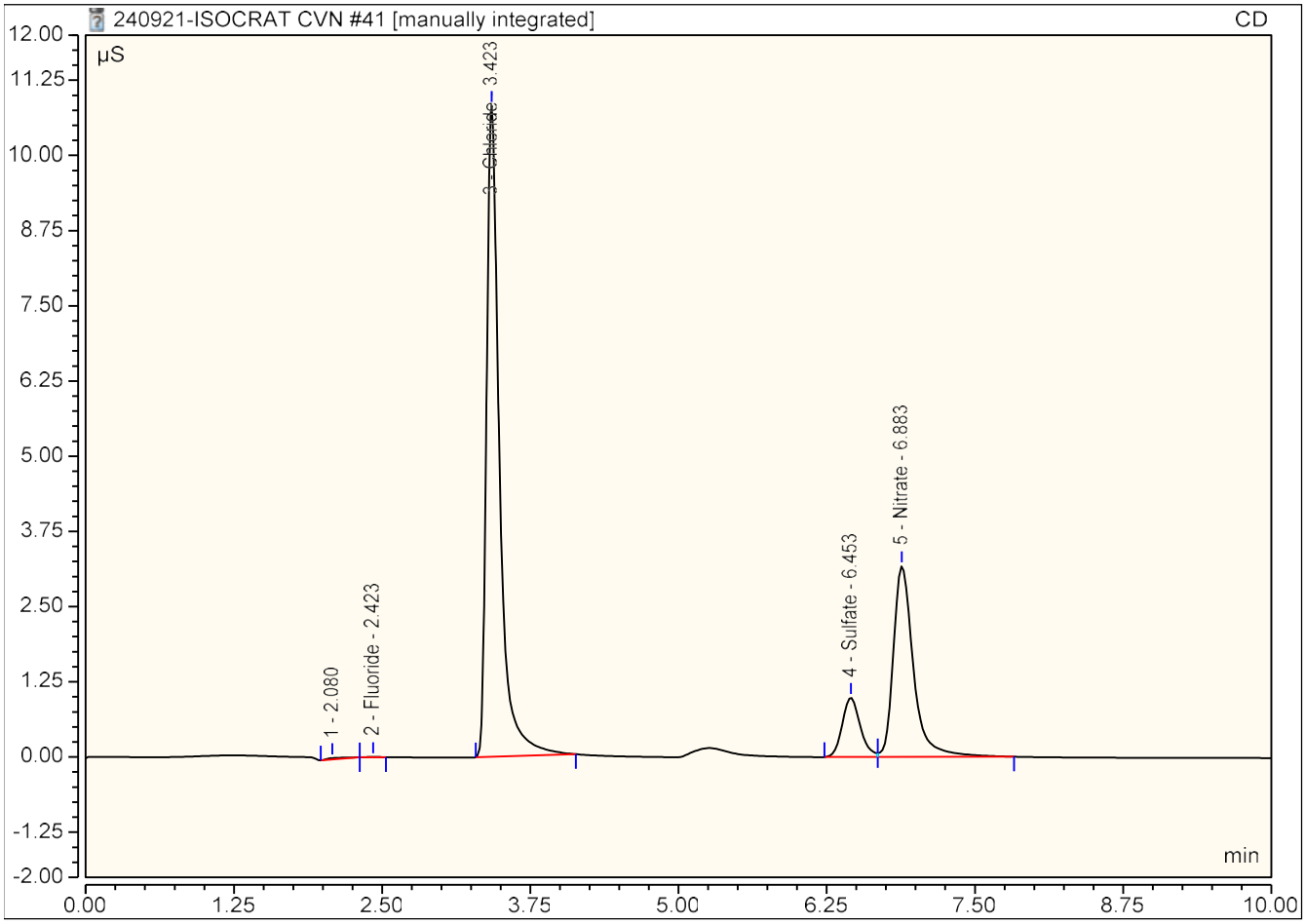
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.006	0.052	0.0557
3	3.42	**Chloride**	BMB*	13.223	98.235	32.4902
4	6.39	**Sulfate**	BM *	1.932	10.632	6.9555
5	6.75	**Nitrate**	MB*^	6.350	24.834	5.0024
TOTAL:				21.51	133.75	44.50



Peak Integration Report

Sample Name:	**XL2453711-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 15:12**	*Run Time:*	**10.00**

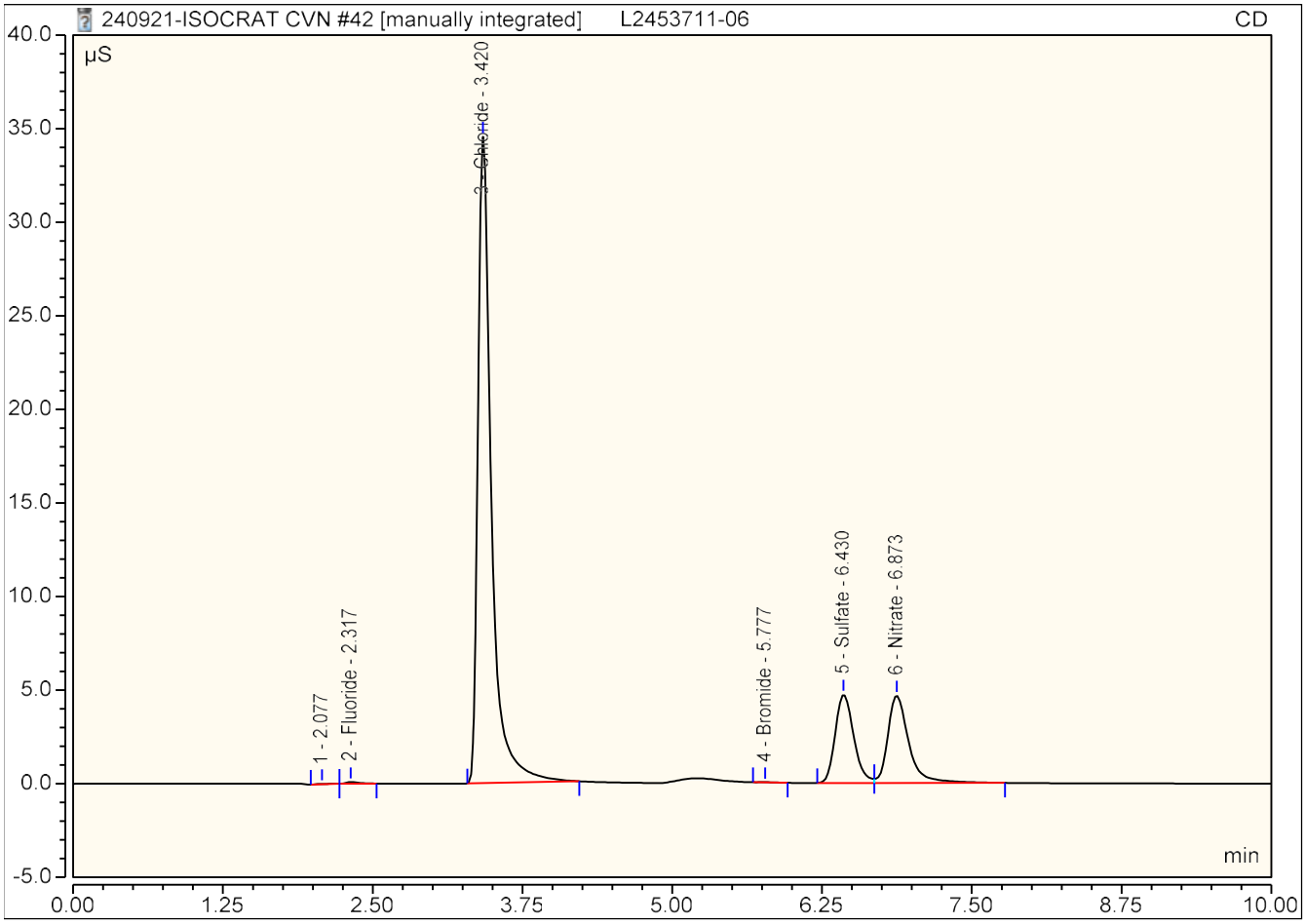
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.42	**Fluoride**	BMB	0.001	0.006	0.4551
3	3.42	**Chloride**	BMB*	1.375	10.825	35.6170
4	6.45	**Sulfate**	BM *	0.173	0.986	8.7479
5	6.88	**Nitrate**	MB*	0.625	3.173	5.1529
TOTAL:				2.17	14.99	49.97



Peak Integration Report

Sample Name:	**L2453711-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 15:25**	*Run Time:*	**10.00**

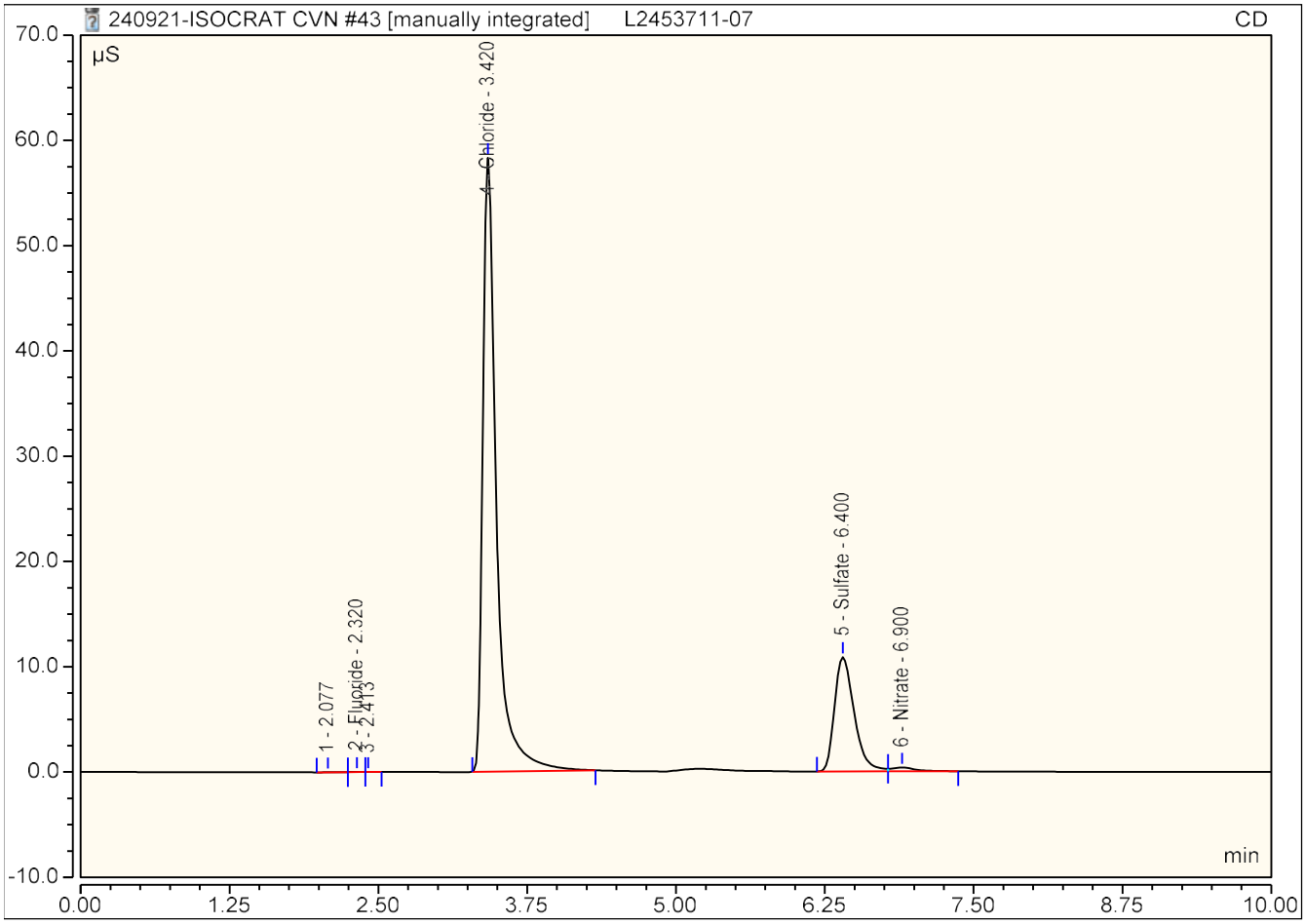
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.010	0.089	0.0632
3	3.42	**Chloride**	BMB*	4.519	34.538	11.2378
4	5.78	**Bromide**	BMB	0.002	0.014	0.0487
5	6.43	**Sulfate**	BM *	0.846	4.726	3.2001
6	6.87	**Nitrate**	MB*	0.944	4.669	0.7648
TOTAL:				6.32	44.04	15.31



Peak Integration Report

Sample Name:	**L2453711-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 15:37**	*Run Time:*	**10.00**

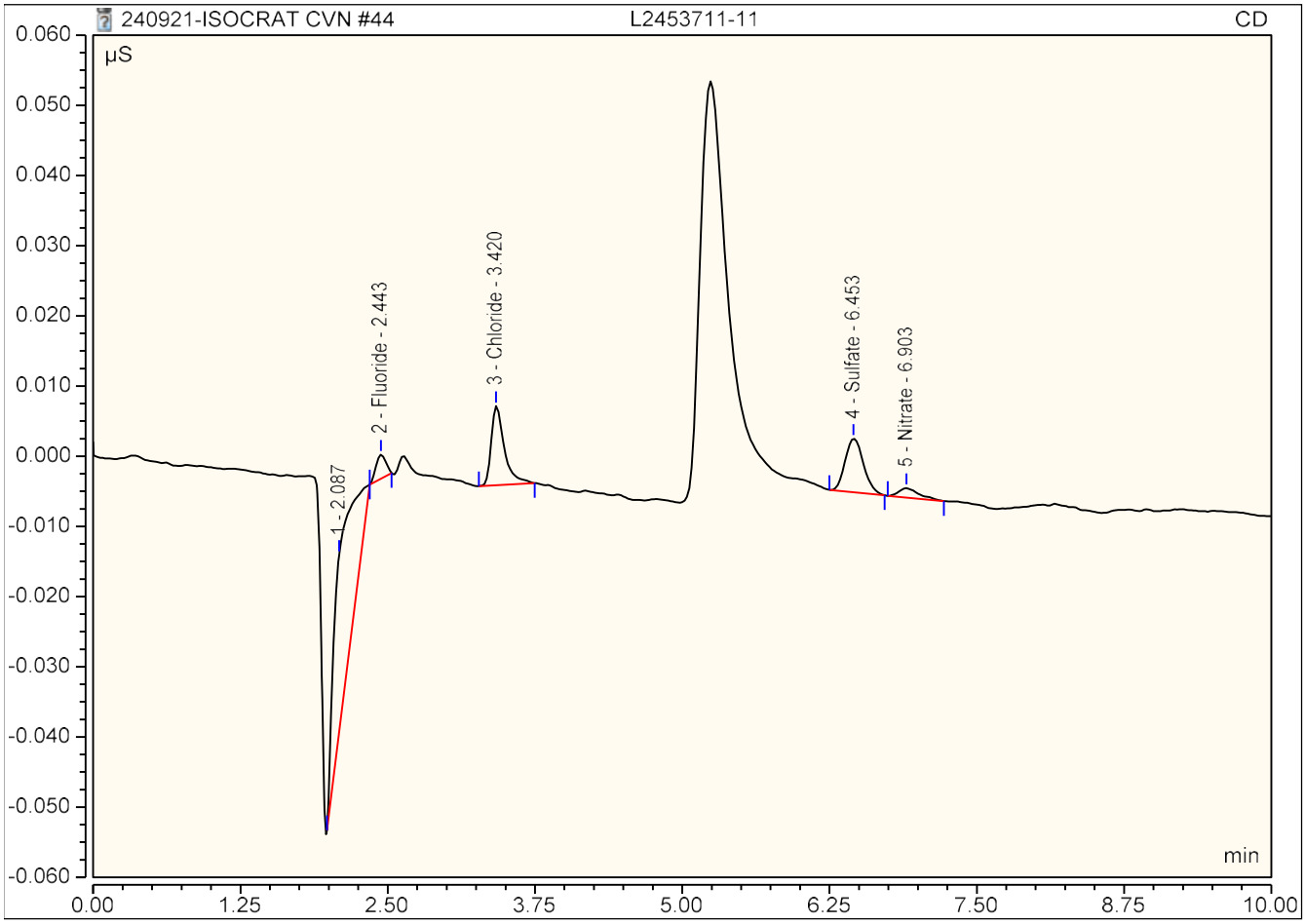
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.001	0.017	0.0468
4	3.42	**Chloride**	BMB*	7.762	58.297	19.1561
5	6.40	**Sulfate**	BM *	2.083	10.876	7.4773
6	6.90	**Nitrate**	MB*	0.088	0.374	0.0941
TOTAL:				9.93	69.56	26.77



Peak Integration Report

Sample Name:	**L2453711-11**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 15:49**	*Run Time:*	**10.00**

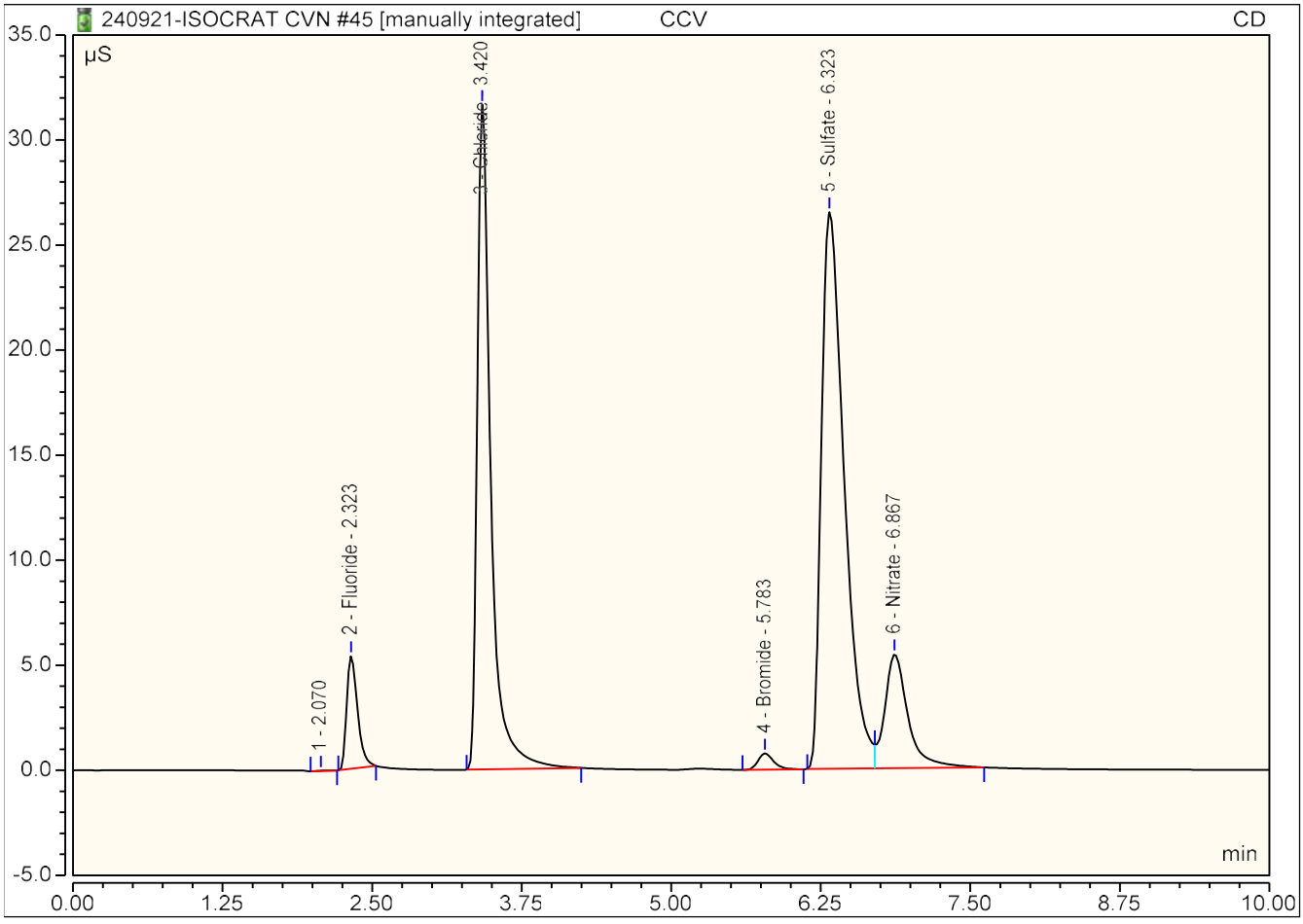
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.44	**Fluoride**	BMB	0.000	0.003	0.0451
3	3.42	**Chloride**	BMB	0.001	0.011	0.2092
4	6.45	**Sulfate**	BMB	0.001	0.008	0.2813
5	6.90	**Nitrate**	BMB	0.000	0.001	0.0255
TOTAL:				0.00	0.02	0.56



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 16:01**	*Run Time:*	**10.00**

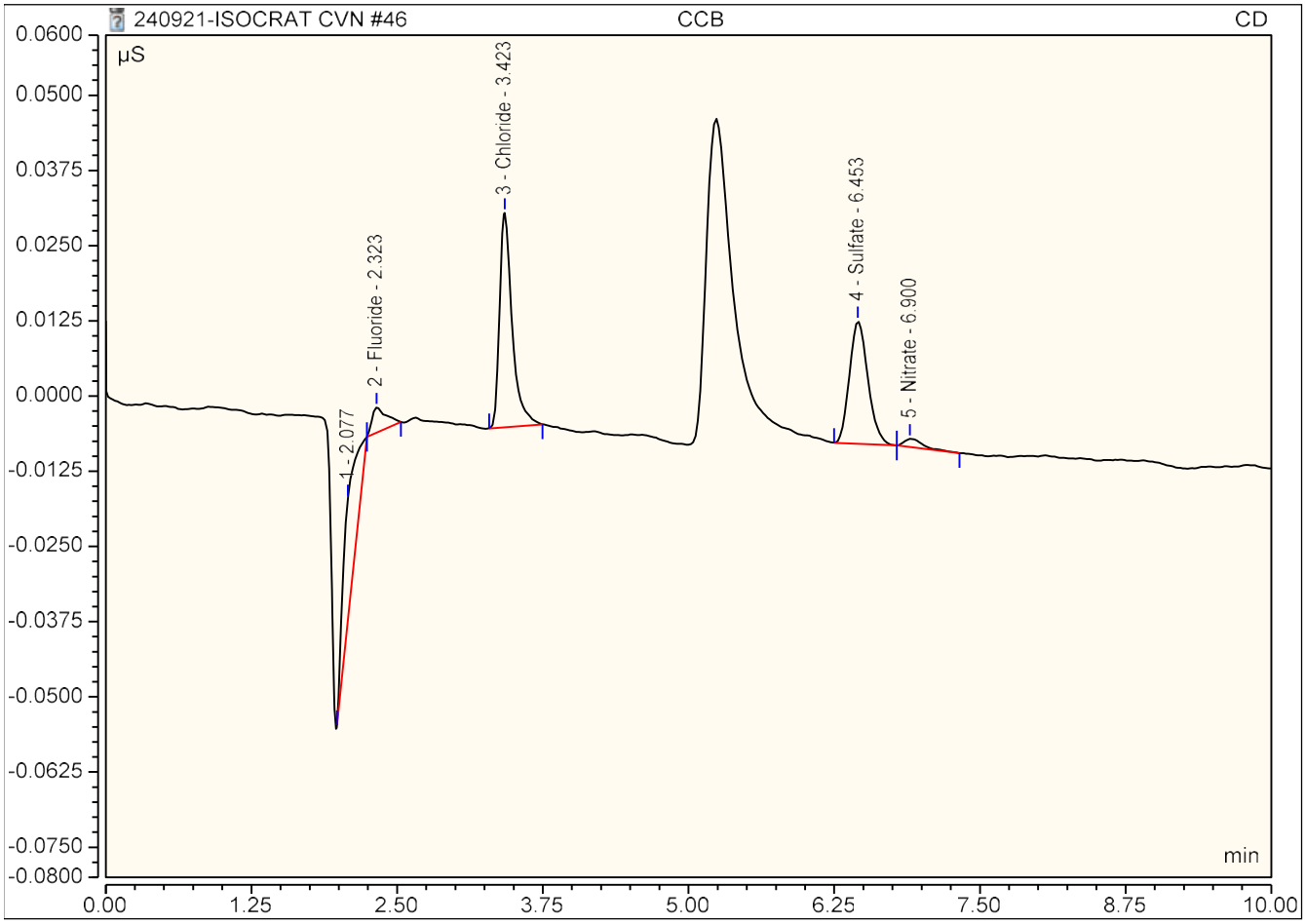
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.561	5.370	1.0681
3	3.42	**Chloride**	BMB*	4.151	31.639	10.3405
4	5.78	**Bromide**	BMB	0.118	0.771	1.0148
5	6.32	**Sulfate**	BM *	5.856	26.486	20.5258
6	6.87	**Nitrate**	MB*	1.217	5.423	0.9790
TOTAL:				11.90	69.69	33.93



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 16:13**	*Run Time:*	**10.00**

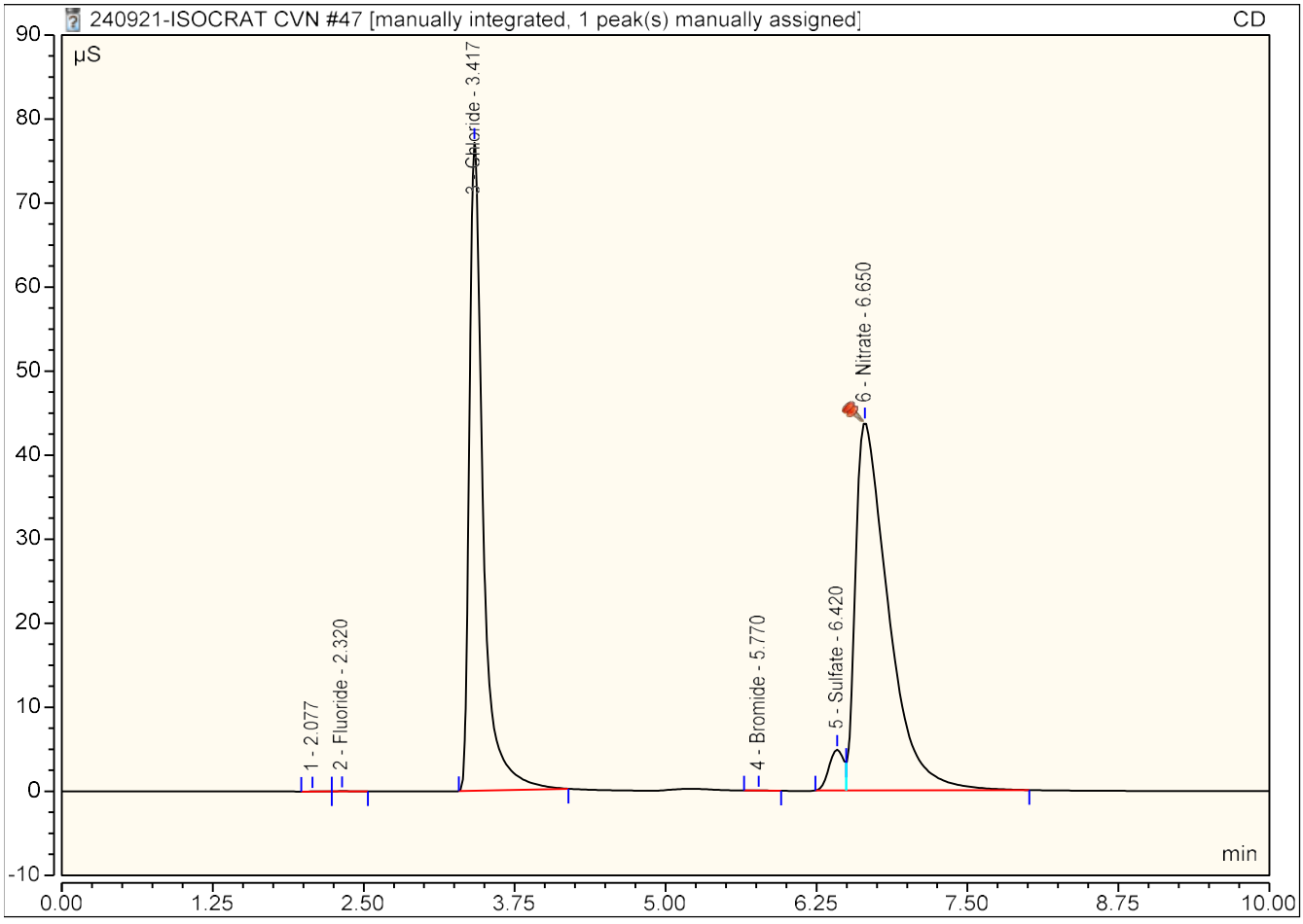
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.001	0.004	0.0455
3	3.42	**Chloride**	BMB	0.004	0.036	0.2164
4	6.45	**Sulfate**	BMB	0.004	0.020	0.2895
5	6.90	**Nitrate**	BMB	0.000	0.001	0.0254
TOTAL:				0.01	0.06	0.58



Peak Integration Report

Sample Name:	**L2453711-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 16:25**	*Run Time:*	**10.00**

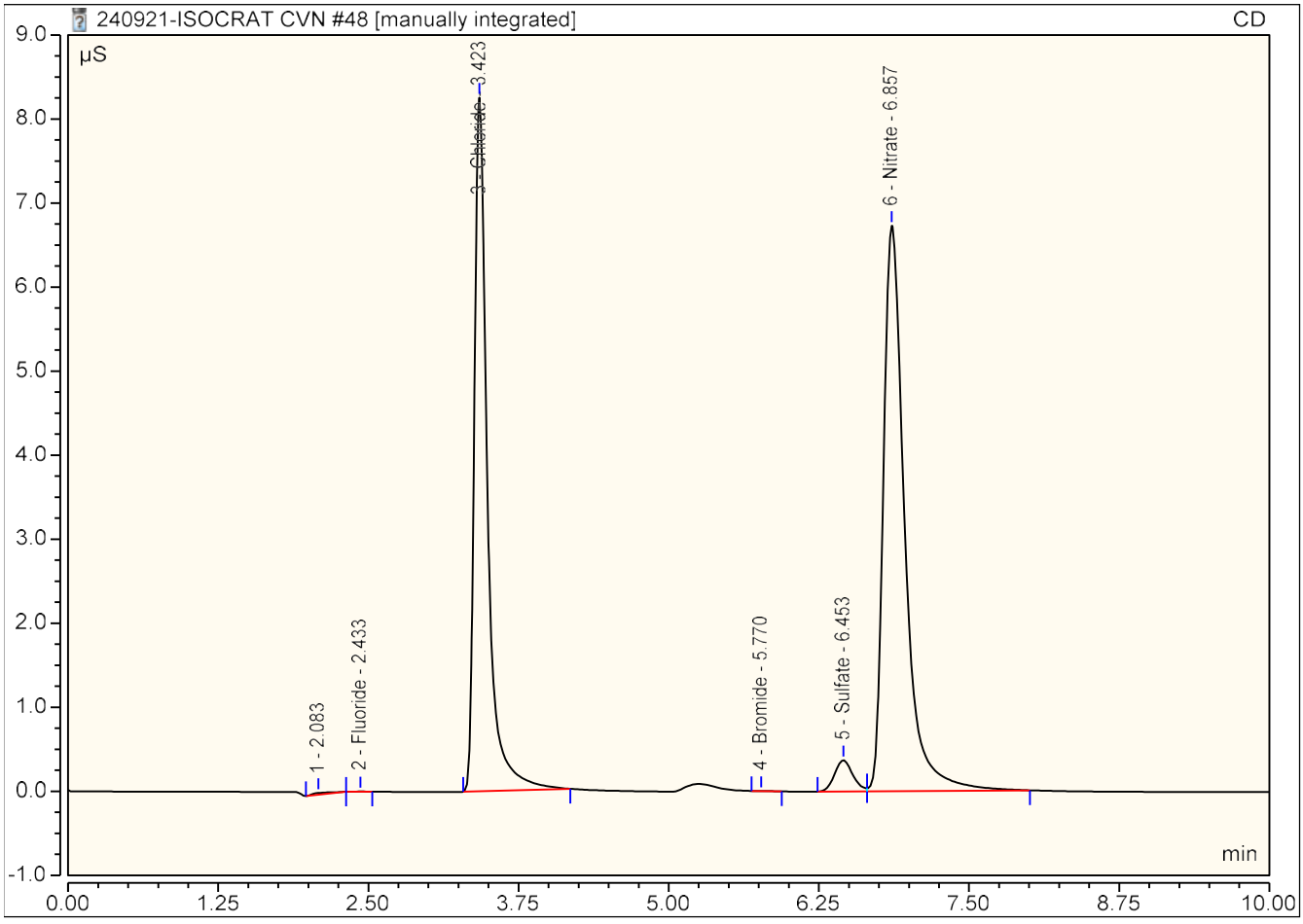
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.004	0.031	0.0516
3	3.42	**Chloride**	BMB*	10.187	77.110	25.0773
4	5.77	**Bromide**	BMB	0.004	0.028	0.0642
5	6.42	**Sulfate**	BM *	0.687	4.845	2.6517
6	6.65	**Nitrate**	MB*^	13.777	43.813	10.8239
TOTAL:				24.66	125.83	38.67



Peak Integration Report

Sample Name:	**XL2458711-08; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 16:37**	*Run Time:*	**10.00**

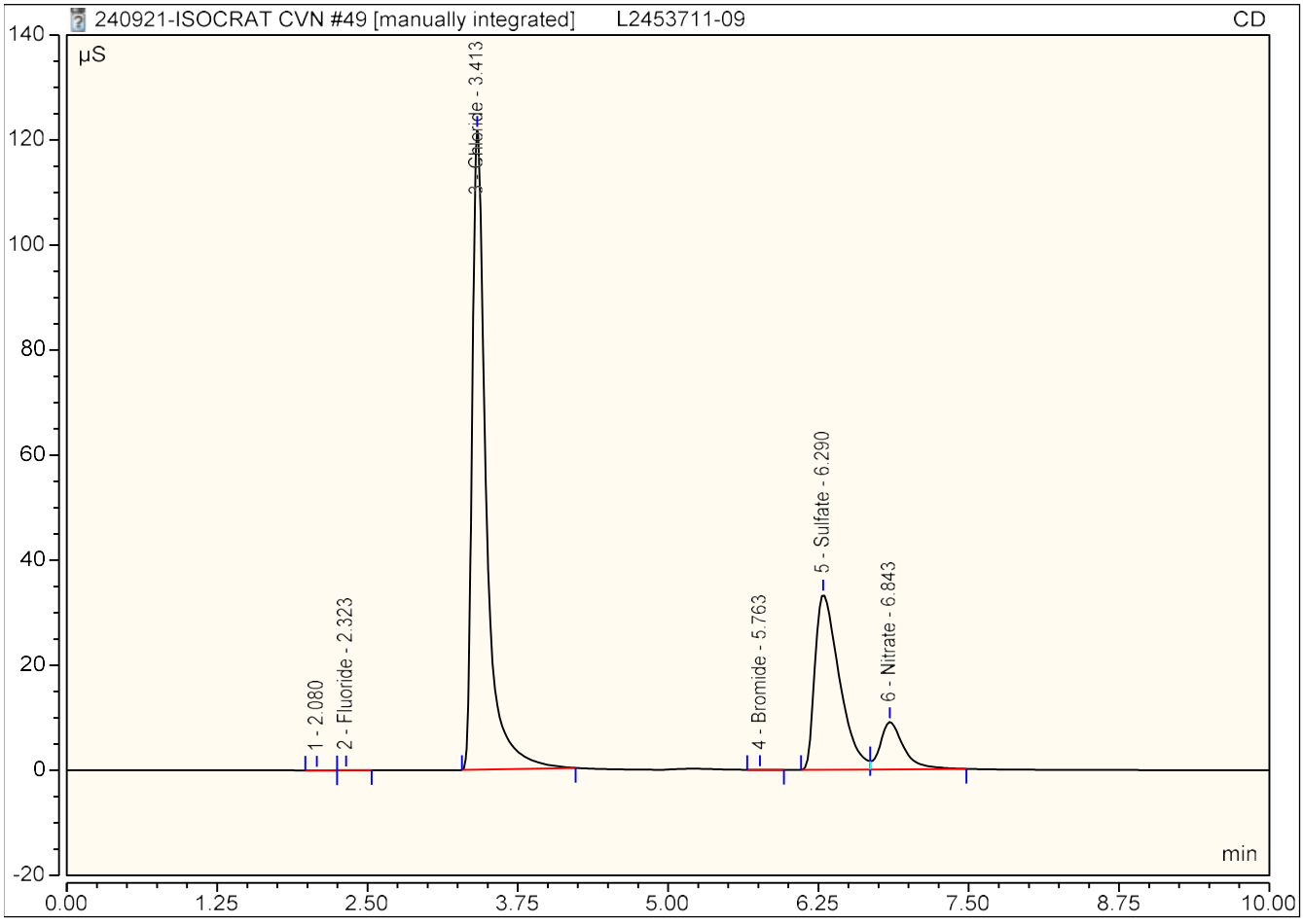
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.43	**Fluoride**	BMB	0.000	0.004	0.4517
3	3.42	**Chloride**	BMB*	1.039	8.256	27.4128
4	5.77	**Bromide**	BMB	0.000	0.002	0.3510
5	6.45	**Sulfate**	BM *	0.065	0.371	5.0167
6	6.86	**Nitrate**	MB*	1.383	6.727	11.0942
TOTAL:				2.49	15.36	44.33



Peak Integration Report

Sample Name:	**L2453711-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 16:49**	*Run Time:*	**10.00**

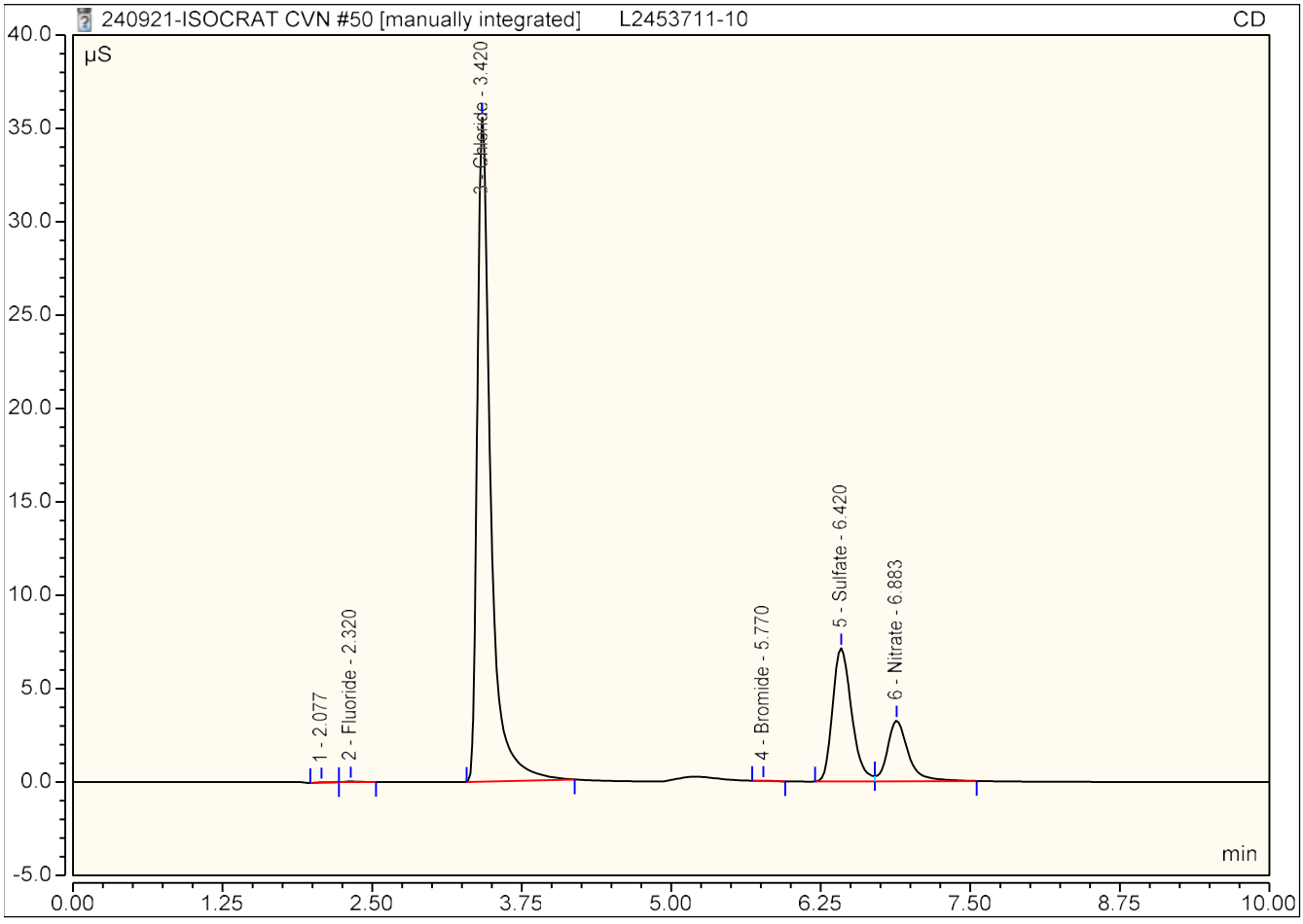
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.003	0.018	0.0491
3	3.41	**Chloride**	BMB*	16.502	121.696	40.4946
4	5.76	**Bromide**	BMB	0.003	0.020	0.0554
5	6.29	**Sulfate**	BM *	7.838	33.375	27.3762
6	6.84	**Nitrate**	MB*	2.024	9.009	1.6118
TOTAL:				26.37	164.12	69.59



Peak Integration Report

Sample Name:	**L2453711-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 17:01**	*Run Time:*	**10.00**

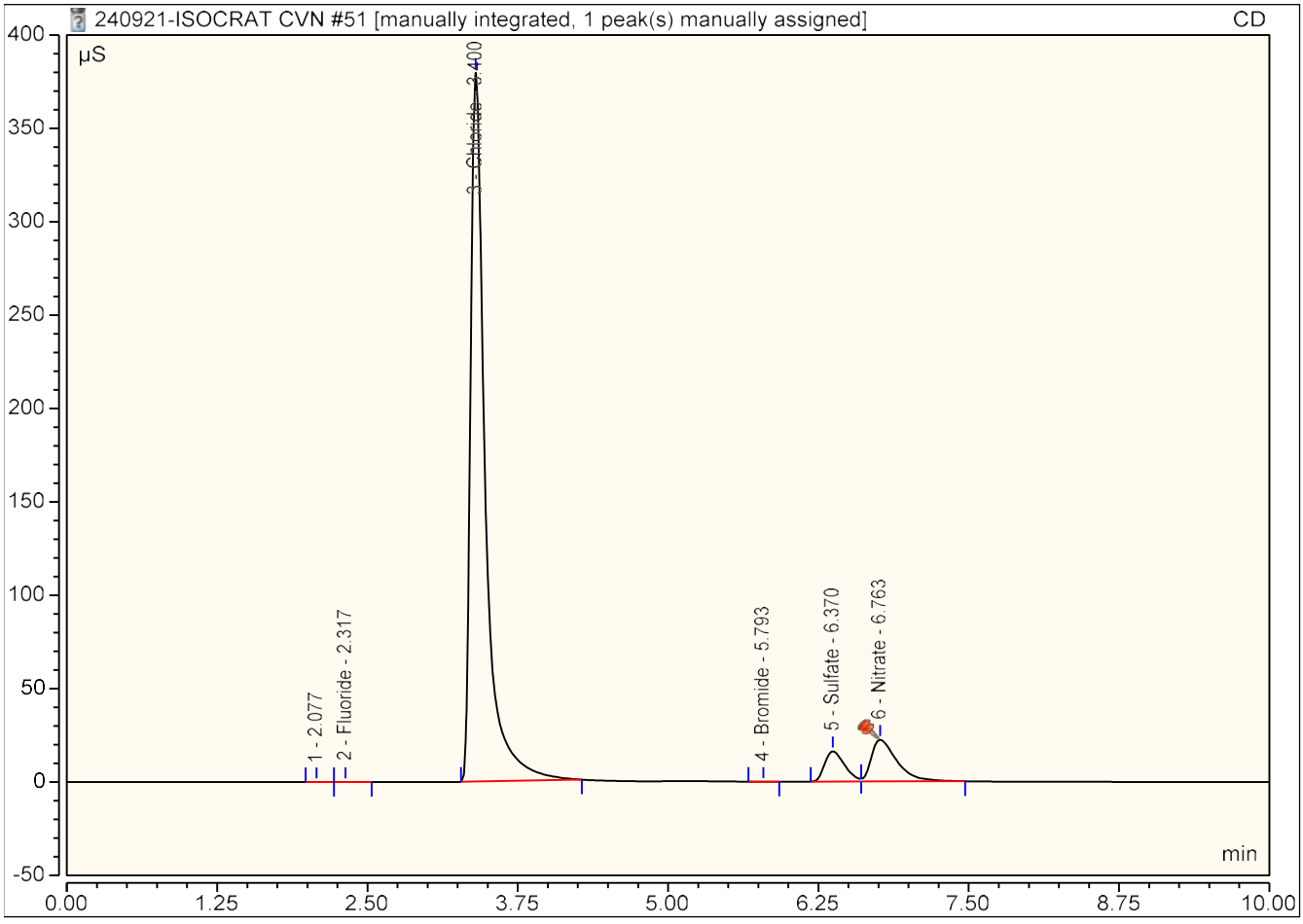
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.005	0.039	0.0531
3	3.42	**Chloride**	BMB*	4.630	35.553	11.5105
4	5.77	**Bromide**	BMB	0.002	0.012	0.0465
5	6.42	**Sulfate**	BM *	1.310	7.124	4.8070
6	6.88	**Nitrate**	MB*	0.653	3.248	0.5372
TOTAL:				6.60	45.97	16.95



Peak Integration Report

Sample Name:	**L2454059-01 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 17:13**	*Run Time:*	**10.00**

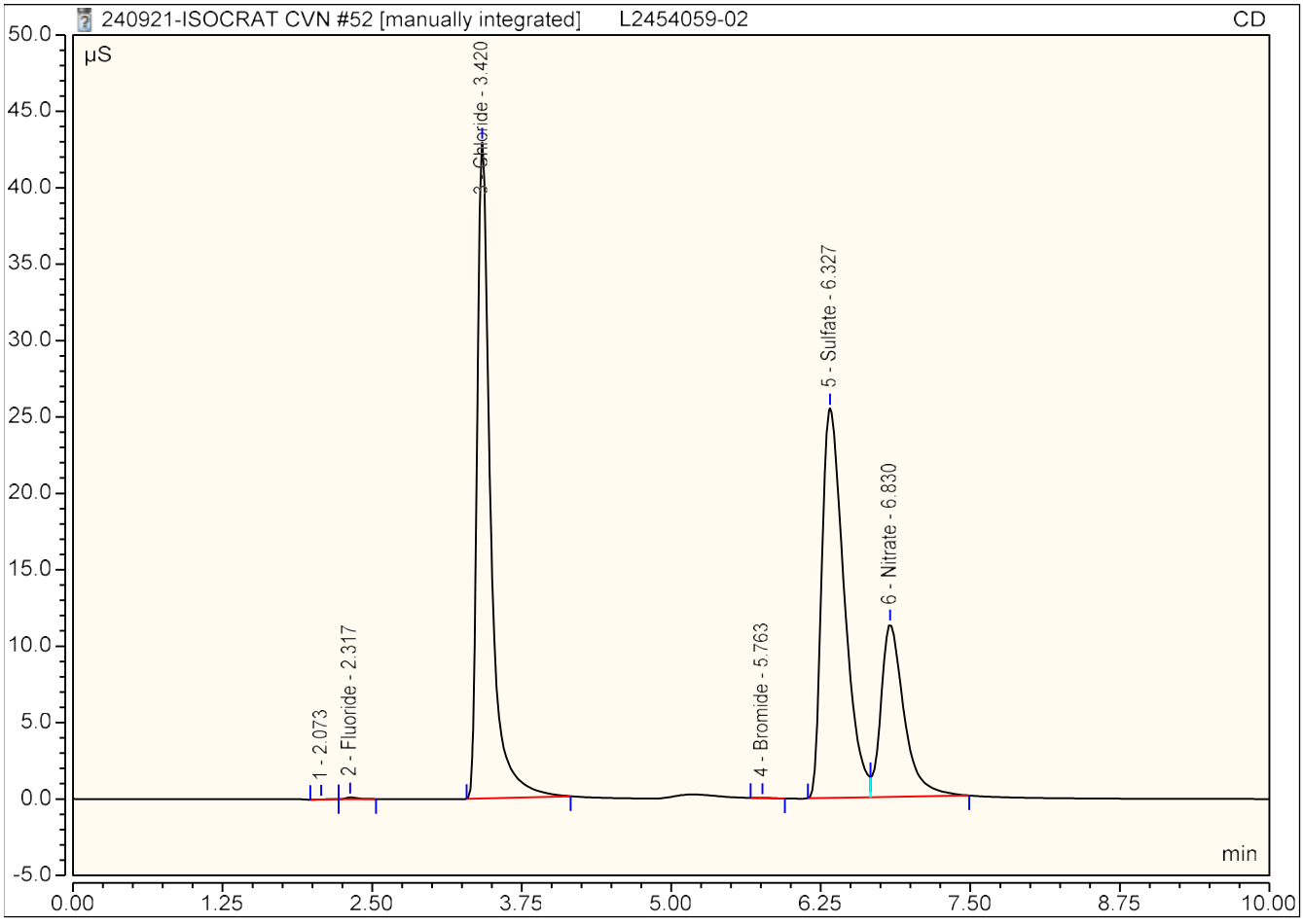
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.007	0.060	0.0573
3	3.40	**Chloride**	BMB*	53.888	379.553	131.7729
4	5.79	**Bromide**	BMB	0.002	0.013	0.0459
5	6.37	**Sulfate**	BM *	3.120	16.248	11.0644
6	6.76	**Nitrate**	MB*^	5.508	22.345	4.3424
TOTAL:				62.52	418.22	147.28



Peak Integration Report

Sample Name:	**L2454059-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 17:25**	*Run Time:*	**10.00**

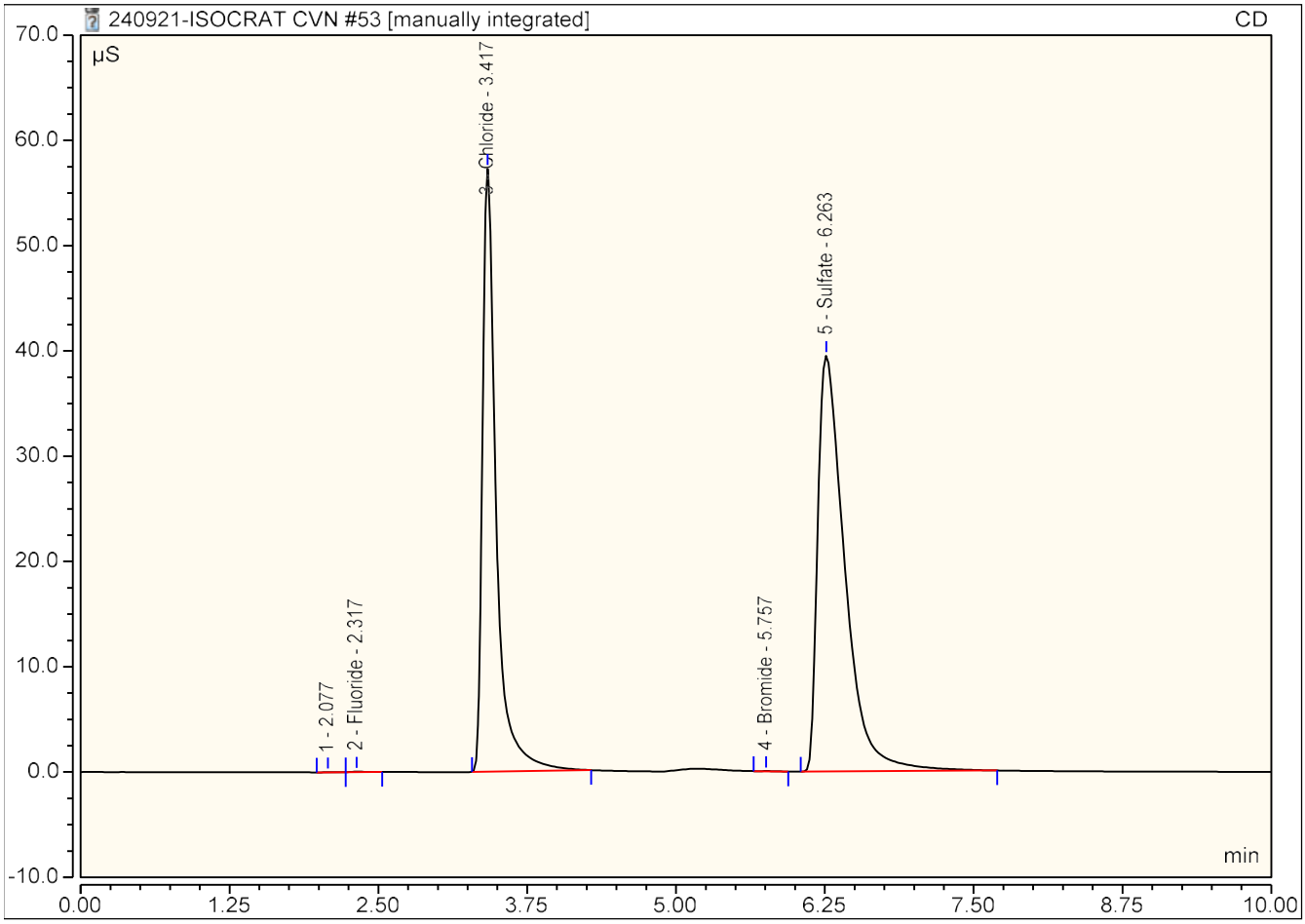
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.014	0.120	0.0691
3	3.42	**Chloride**	BMB*	5.623	42.943	13.9337
4	5.76	**Bromide**	BMB	0.002	0.016	0.0510
5	6.33	**Sulfate**	BM *	5.528	25.488	19.3908
6	6.83	**Nitrate**	MB*	2.528	11.295	2.0065
TOTAL:				13.69	79.86	35.45



Peak Integration Report

Sample Name:	**L2453576-06; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 17:38**	*Run Time:*	**10.00**

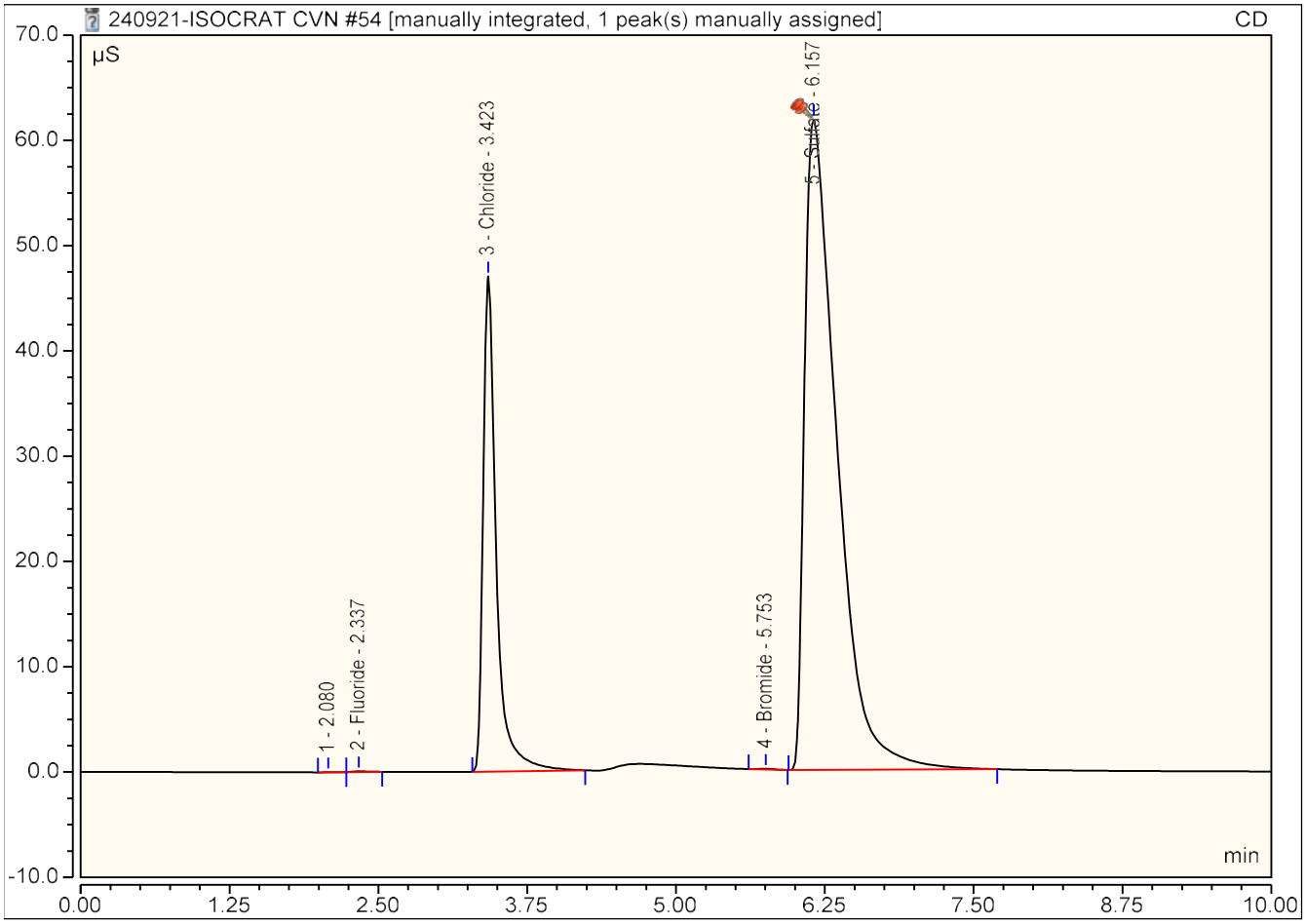
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.006	0.052	1.3991
3	3.42	**Chloride**	BMB*	7.682	57.284	474.0460
4	5.76	**Bromide**	BMB	0.002	0.016	1.2834
5	6.26	**Sulfate**	BMB	10.412	39.480	906.9088
TOTAL:				18.10	96.83	1383.64



Peak Integration Report

Sample Name:	**L2453711-04 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 17:50**	*Run Time:*	**10.00**

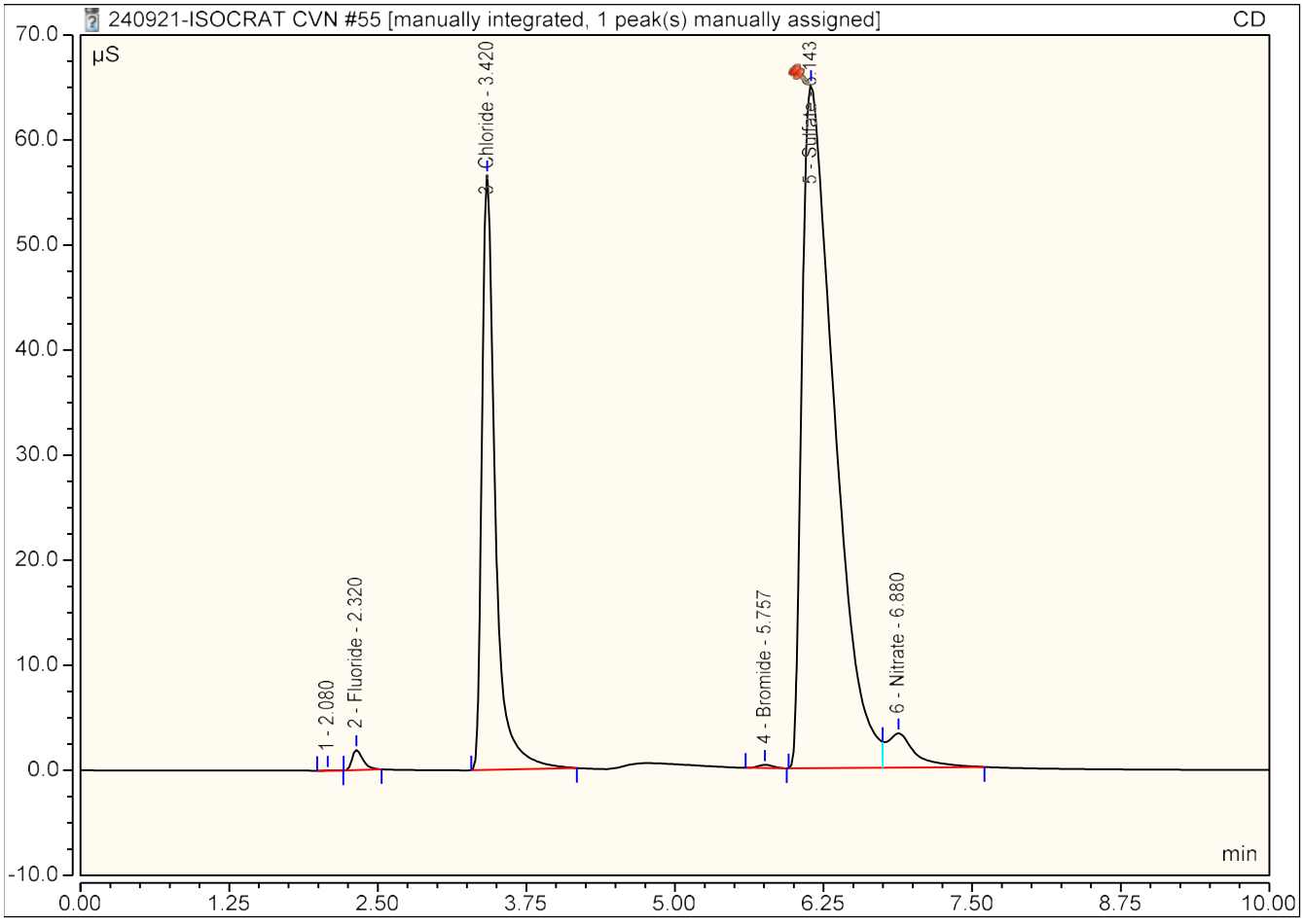
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.010	0.069	0.0622
3	3.42	**Chloride**	BMB*	6.035	47.053	14.9410
4	5.75	**Bromide**	BMB	0.011	0.076	0.1228
5	6.16	**Sulfate**	BMB^	19.394	61.816	67.3339
TOTAL:				25.45	109.01	82.46



Peak Integration Report

Sample Name:	**L2453711-04 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 18:02**	*Run Time:*	**10.00**

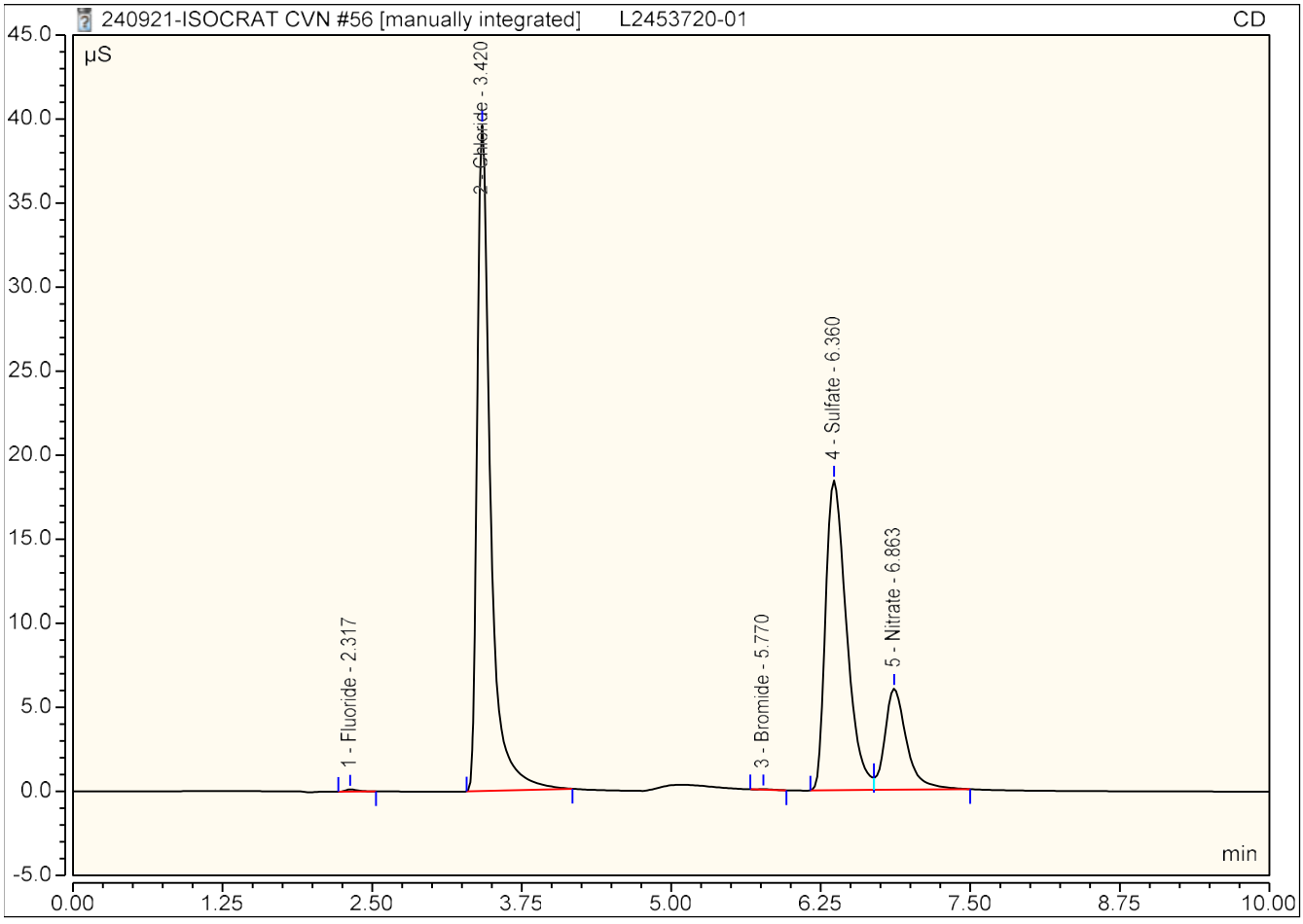
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.204	1.919	0.4158
3	3.42	**Chloride**	BMB*	7.428	56.619	18.3400
4	5.76	**Bromide**	BMB	0.046	0.321	0.4144
5	6.14	**Sulfate**	BM *^	20.438	65.043	70.9412
6	6.88	**Nitrate**	MB*	0.922	3.266	0.7483
TOTAL:				29.04	127.17	90.86



Peak Integration Report

Sample Name:	**L2453720-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 18:14**	*Run Time:*	**10.00**

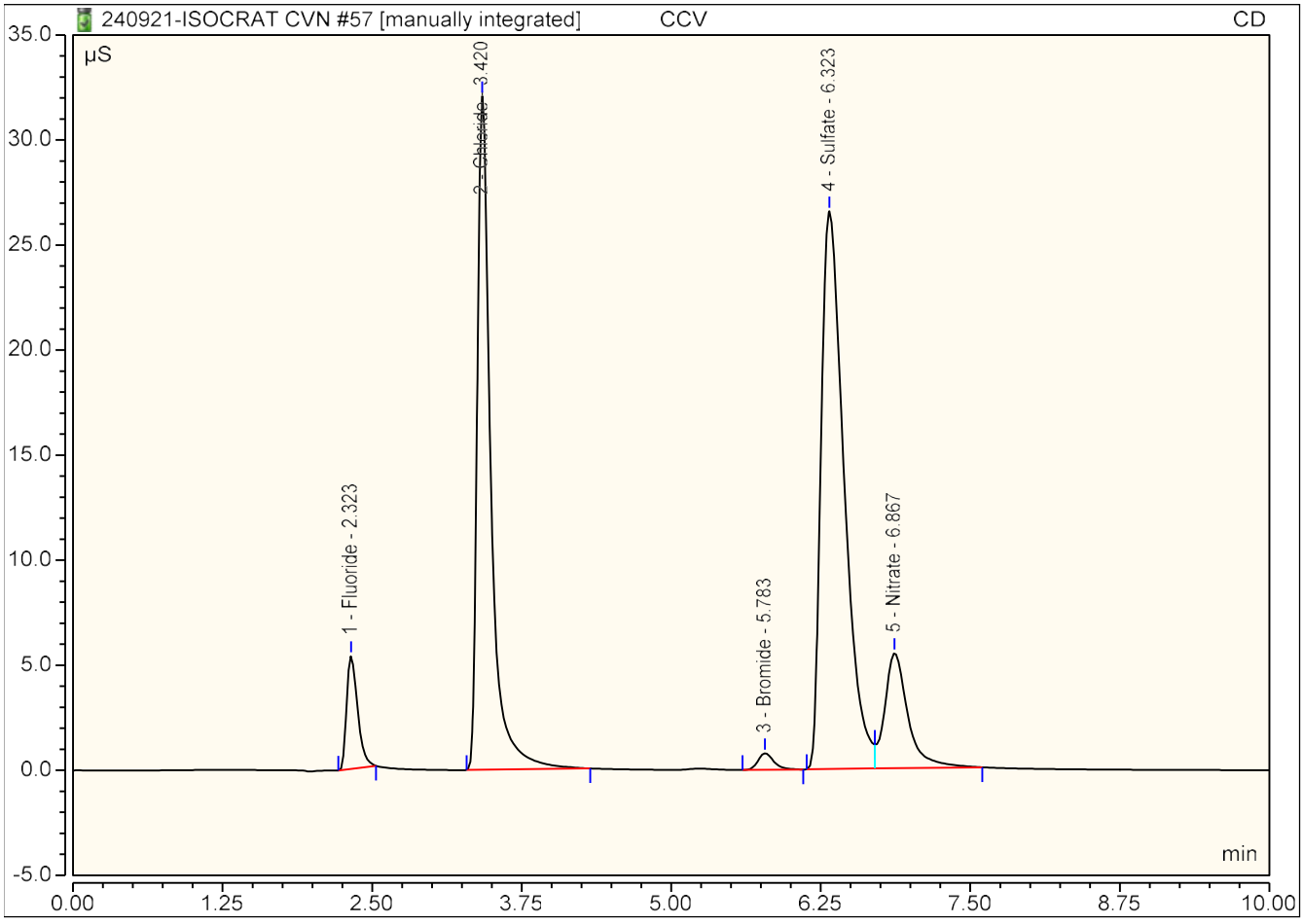
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	0.015	0.129	0.0710
2	3.42	**Chloride**	BMB*	5.155	39.597	12.7920
3	5.77	**Bromide**	BMB	0.004	0.027	0.0641
4	6.36	**Sulfate**	BM *	3.742	18.431	13.2136
5	6.86	**Nitrate**	MB*	1.267	6.018	1.0186
TOTAL:				10.18	64.20	27.16



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 18:26**	*Run Time:*	**10.00**

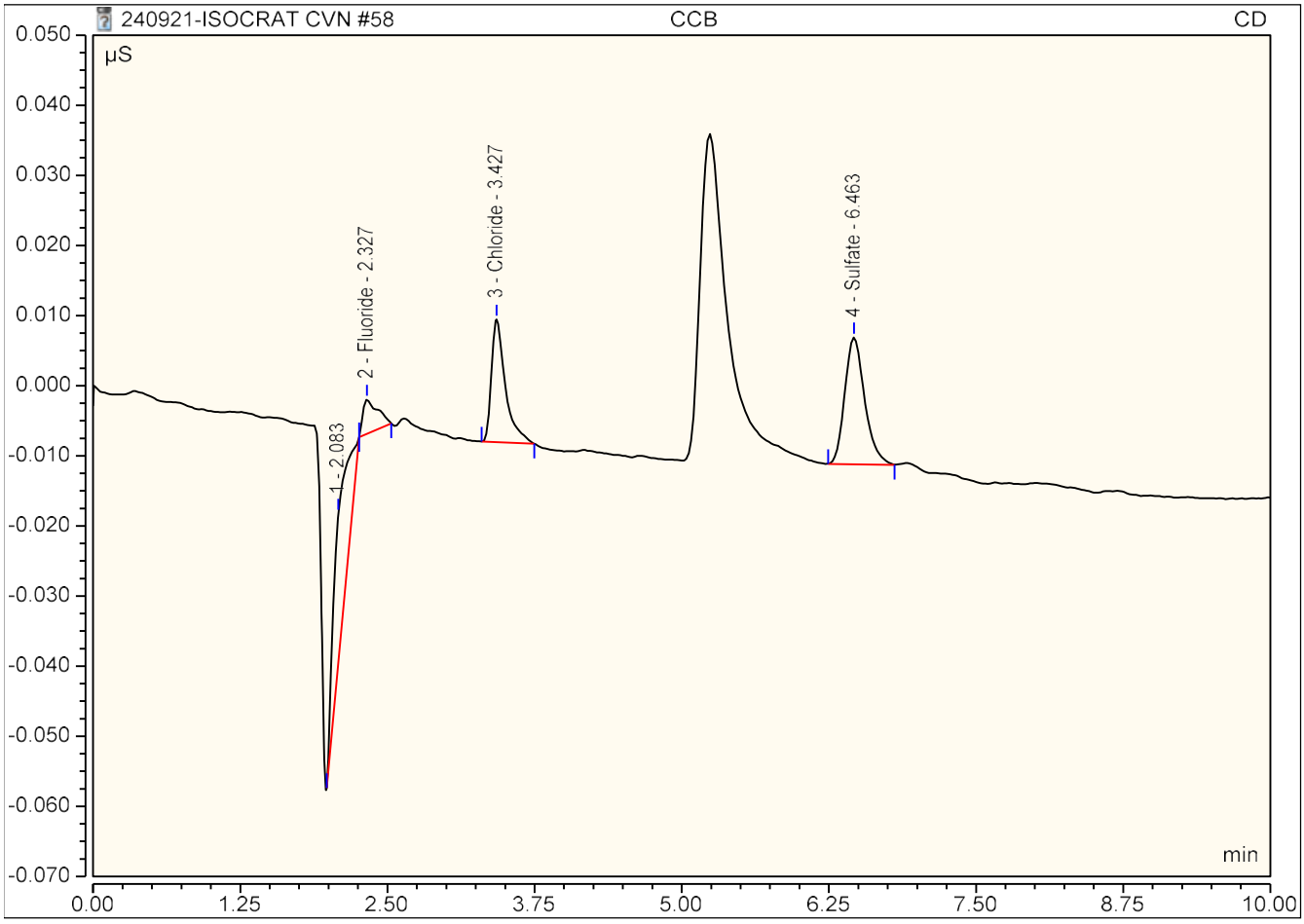
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.32	**Fluoride**	BMB	0.570	5.369	1.0842
2	3.42	**Chloride**	BMB*	4.228	32.056	10.5280
3	5.78	**Bromide**	BMB	0.121	0.790	1.0365
4	6.32	**Sulfate**	BM *	5.911	26.535	20.7154
5	6.87	**Nitrate**	MB*	1.234	5.484	0.9922
TOTAL:				12.06	70.23	34.36



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 18:38**	*Run Time:*	**10.00**

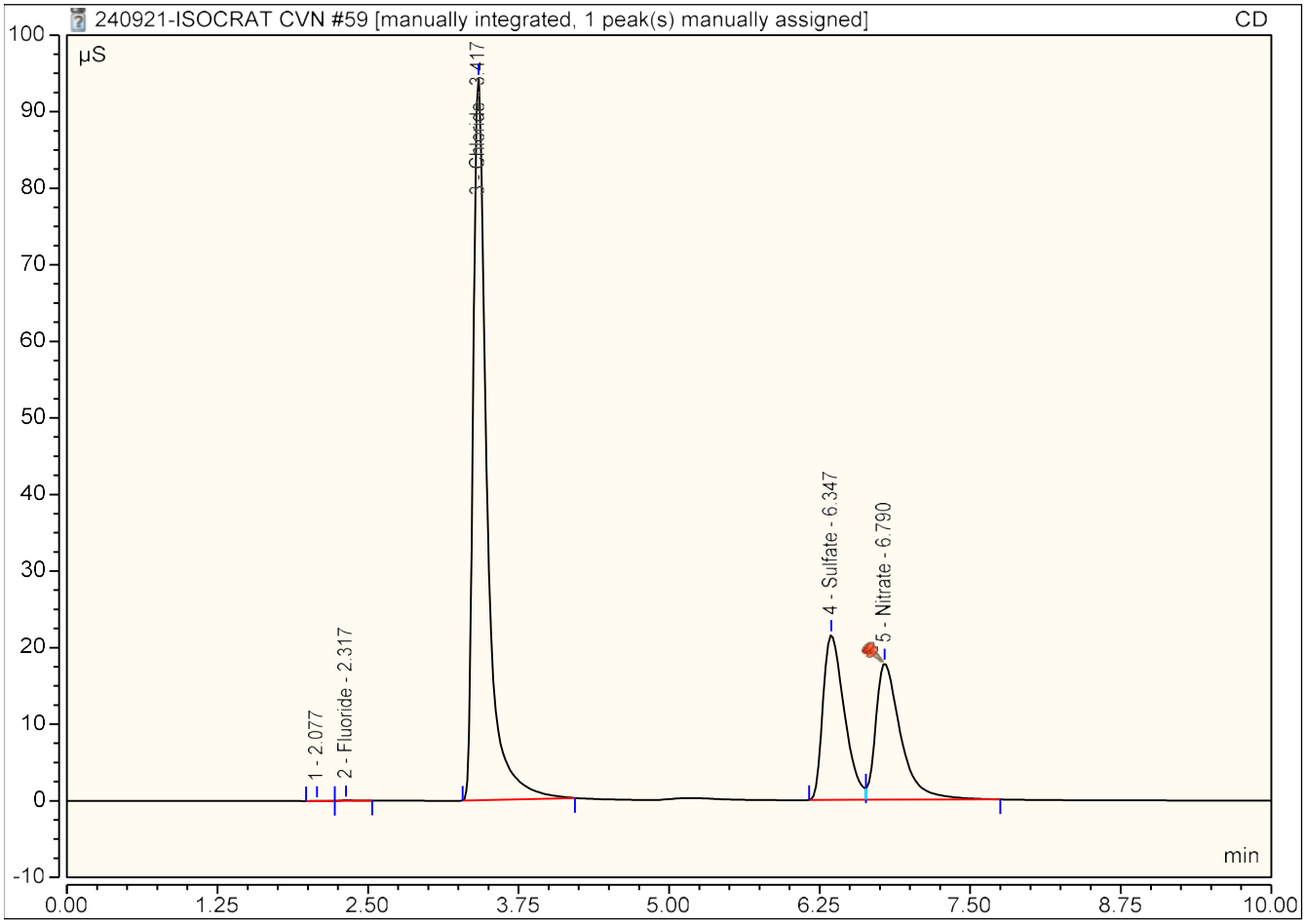
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.001	0.005	0.0458
3	3.43	**Chloride**	BMB	0.002	0.018	0.2115
4	6.46	**Sulfate**	BMB	0.004	0.018	0.2888
TOTAL:				0.01	0.04	0.55



Peak Integration Report

Sample Name:	**L2453720-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 18:50**	*Run Time:*	**10.00**

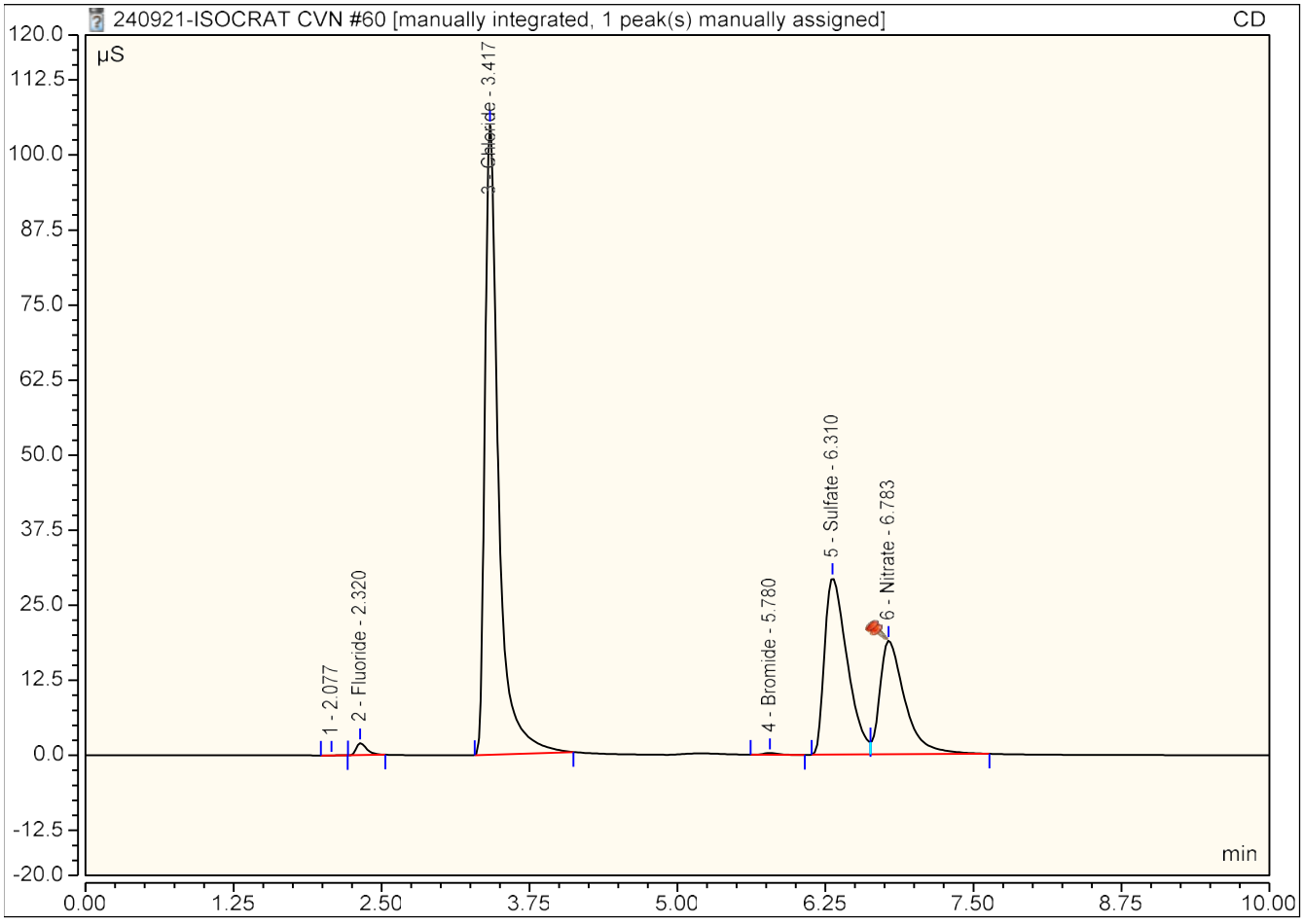
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.009	0.074	0.0602
3	3.42	**Chloride**	BMB*	12.607	94.232	30.9849
4	6.35	**Sulfate**	BM *	4.432	21.562	15.5992
5	6.79	**Nitrate**	MB*^	4.276	17.833	3.3770
TOTAL:				21.32	133.70	50.02



Peak Integration Report

Sample Name:	**L2453720-02 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 19:02**	*Run Time:*	**10.00**

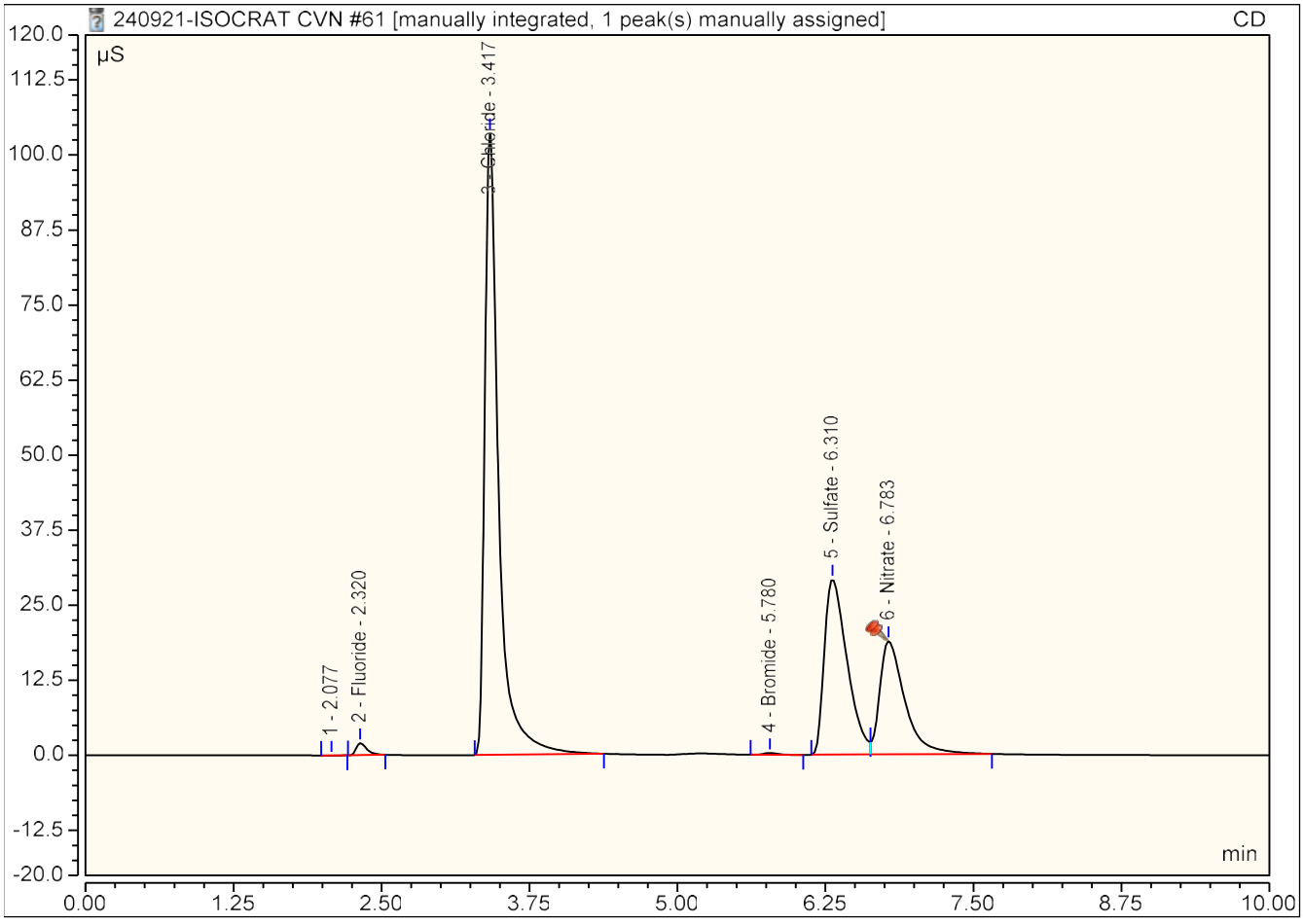
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.211	2.019	0.4298
3	3.42	**Chloride**	BMB*	13.945	104.828	34.2534
4	5.78	**Bromide**	BMB	0.042	0.281	0.3800
5	6.31	**Sulfate**	BM *	6.521	29.410	22.8251
6	6.78	**Nitrate**	MB*^	4.618	18.923	3.6448
TOTAL:				25.34	155.46	61.53



Peak Integration Report

Sample Name:	**L2453720-02 MSD**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 19:14**	*Run Time:*	**10.00**

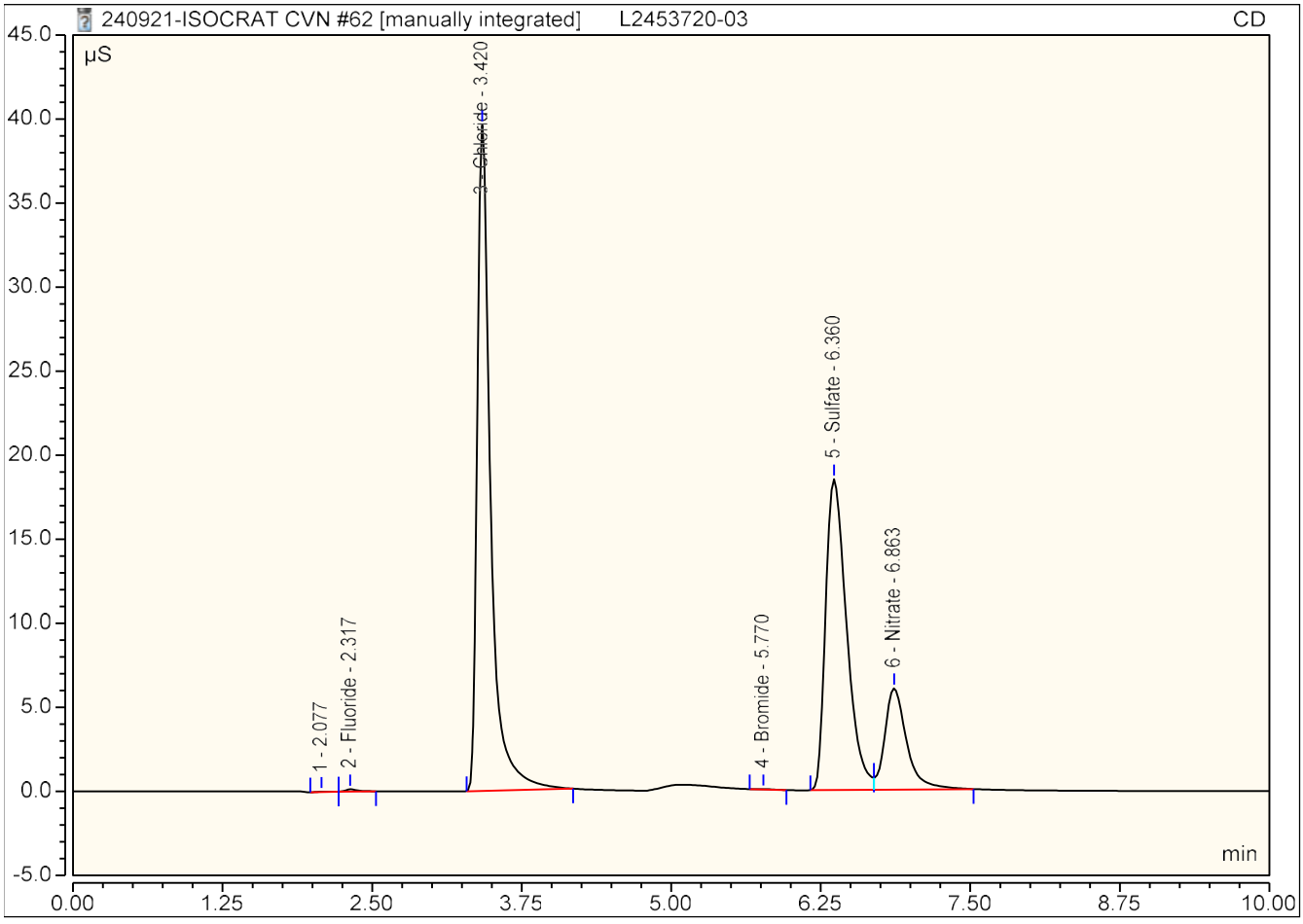
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.210	1.999	0.4276
3	3.42	**Chloride**	BMB*	14.090	103.578	34.6058
4	5.78	**Bromide**	BMB	0.042	0.280	0.3801
5	6.31	**Sulfate**	BM *	6.506	29.195	22.7725
6	6.78	**Nitrate**	MB*^	4.625	18.886	3.6508
TOTAL:				25.47	153.94	61.84



Peak Integration Report

Sample Name:	**L2453720-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 19:26**	*Run Time:*	**10.00**

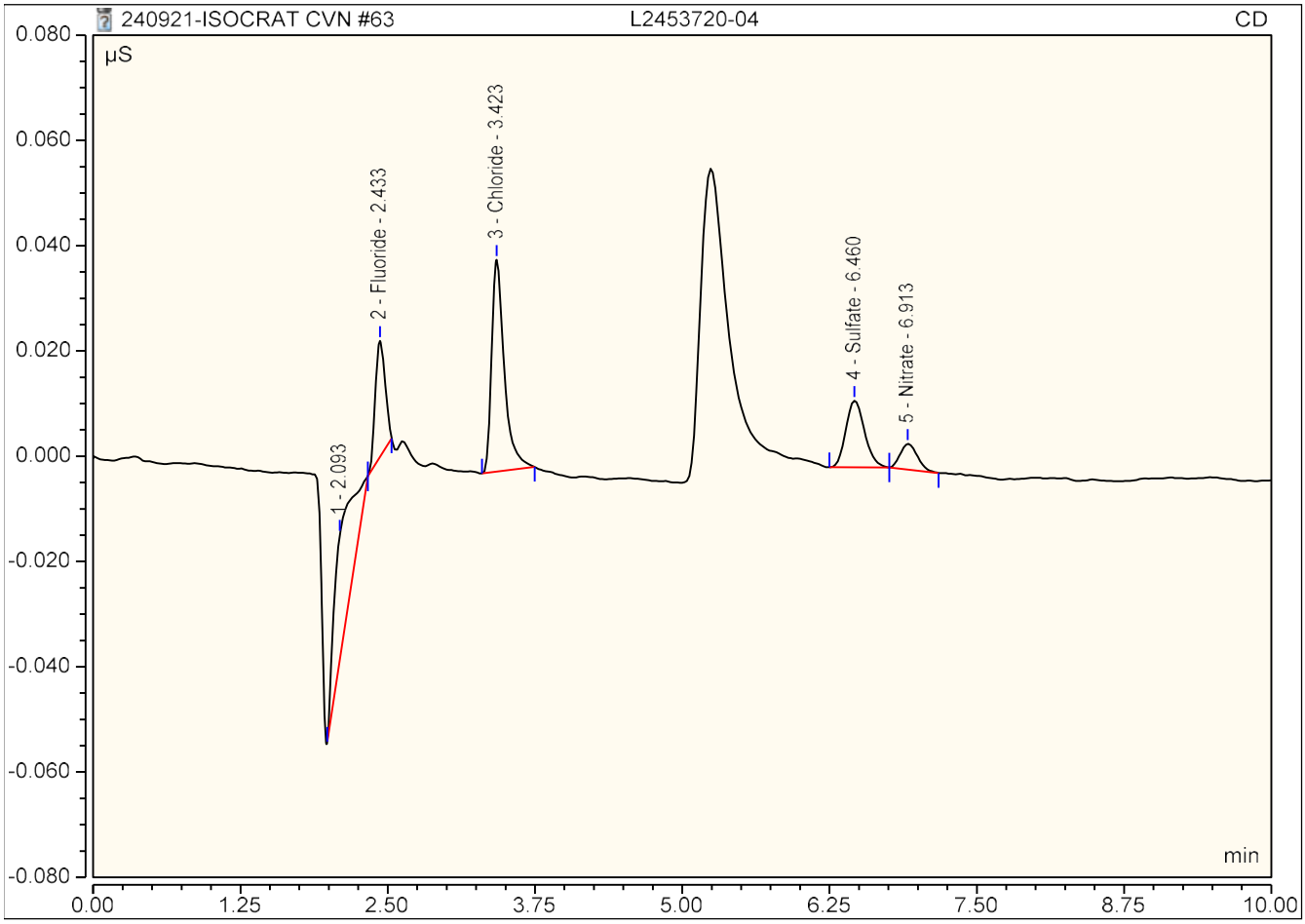
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.014	0.129	0.0706
3	3.42	**Chloride**	BMB*	5.148	39.620	12.7733
4	5.77	**Bromide**	BMB	0.004	0.026	0.0635
5	6.36	**Sulfate**	BM *	3.758	18.495	13.2717
6	6.86	**Nitrate**	MB*	1.276	6.032	1.0251
TOTAL:				10.20	64.30	27.20



Peak Integration Report

Sample Name:	**L2453720-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 19:38**	*Run Time:*	**10.00**

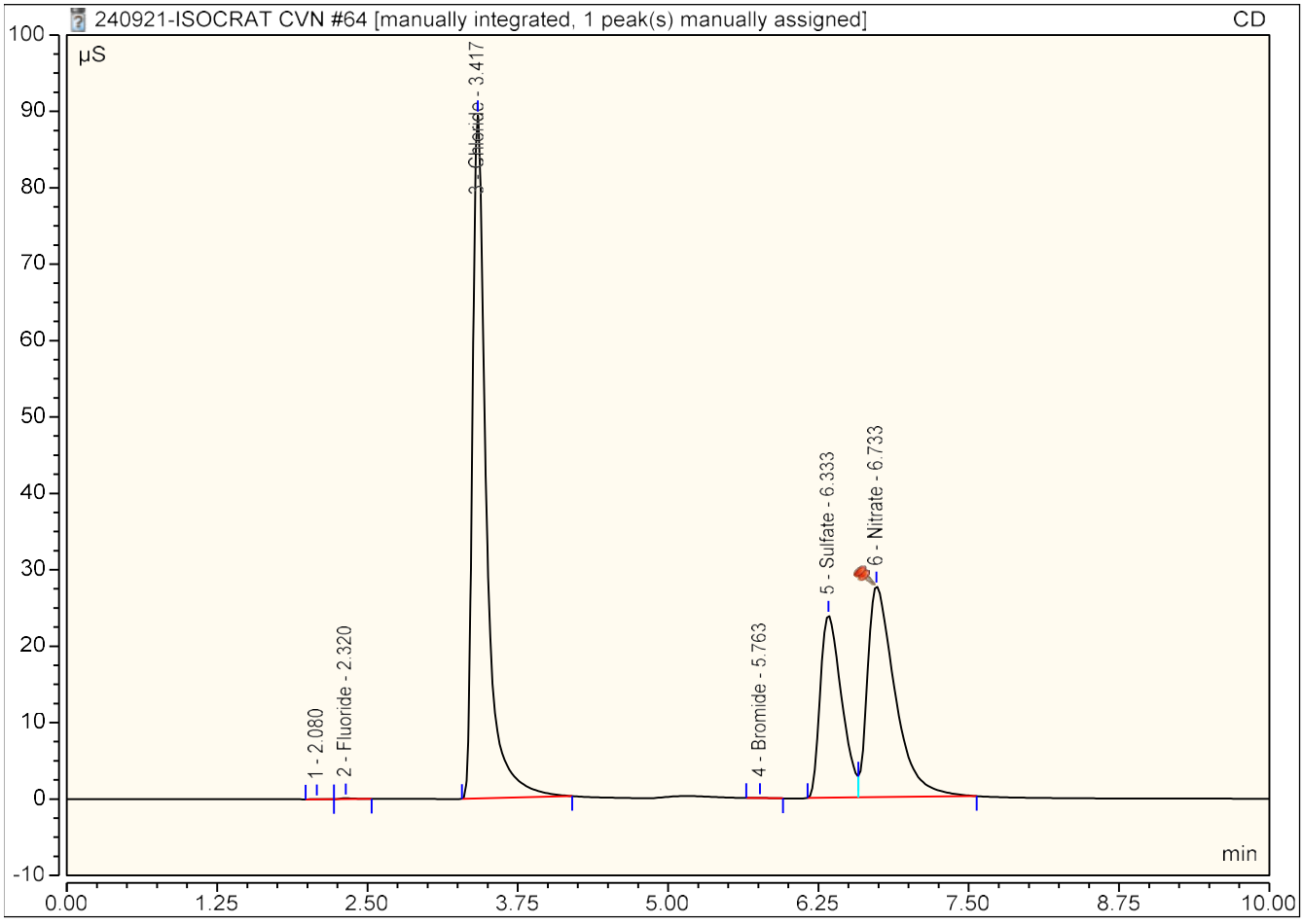
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.43	**Fluoride**	BMB	0.002	0.022	0.0483
3	3.42	**Chloride**	BMB	0.005	0.040	0.2179
4	6.46	**Sulfate**	BMB	0.002	0.013	0.2846
5	6.91	**Nitrate**	BMB	0.001	0.005	0.0259
TOTAL:				0.01	0.08	0.58



Peak Integration Report

Sample Name:	**L2453720-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 19:50**	*Run Time:*	**10.00**

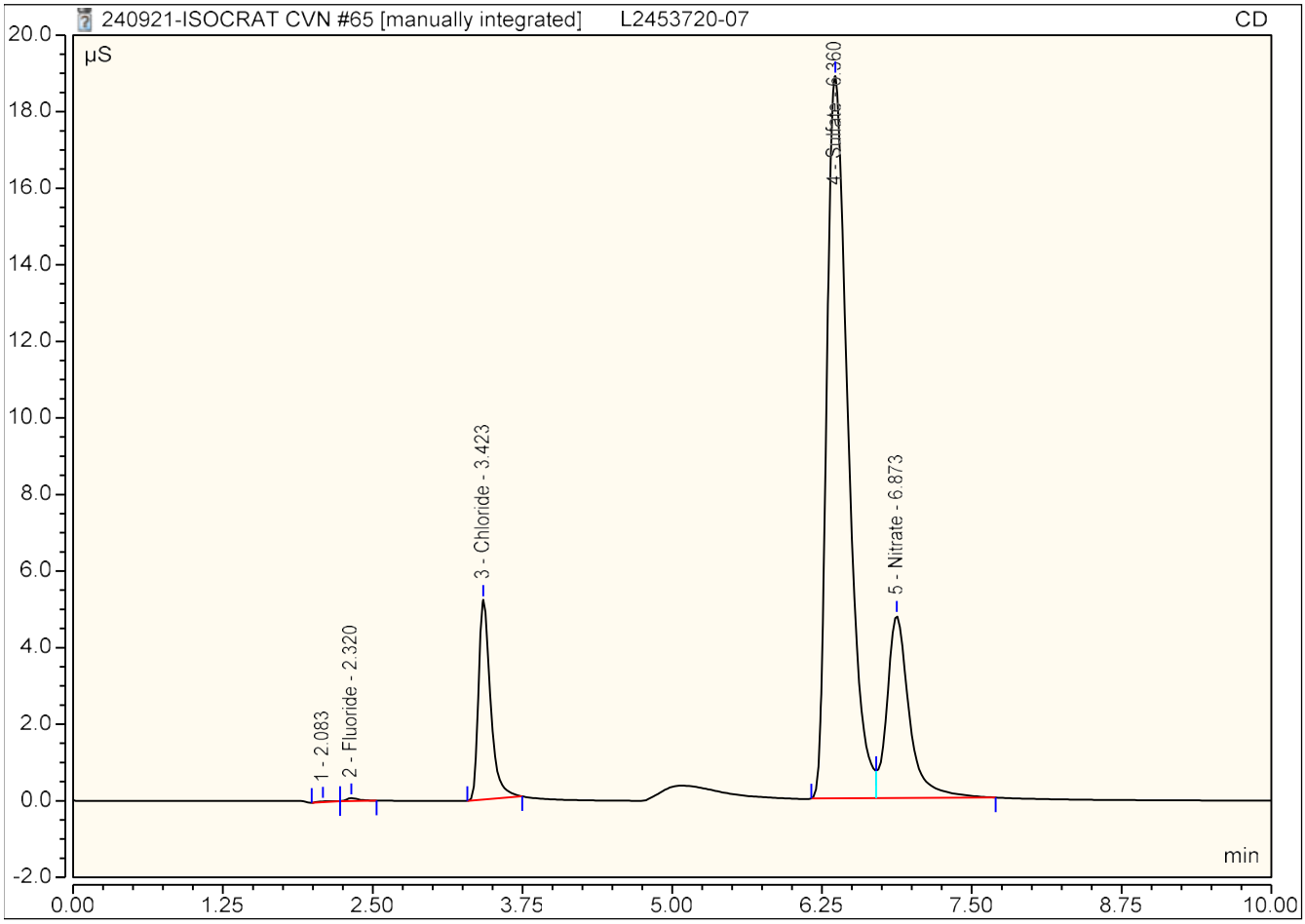
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.013	0.110	0.0675
3	3.42	**Chloride**	BMB*	11.969	89.415	29.4284
4	5.76	**Bromide**	BMB	0.004	0.028	0.0645
5	6.33	**Sulfate**	BM *	4.902	23.847	17.2269
6	6.73	**Nitrate**	MB*^	7.329	27.610	5.7698
TOTAL:				24.22	141.01	52.56



Peak Integration Report

Sample Name:	**L2453720-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 20:03**	*Run Time:*	**10.00**

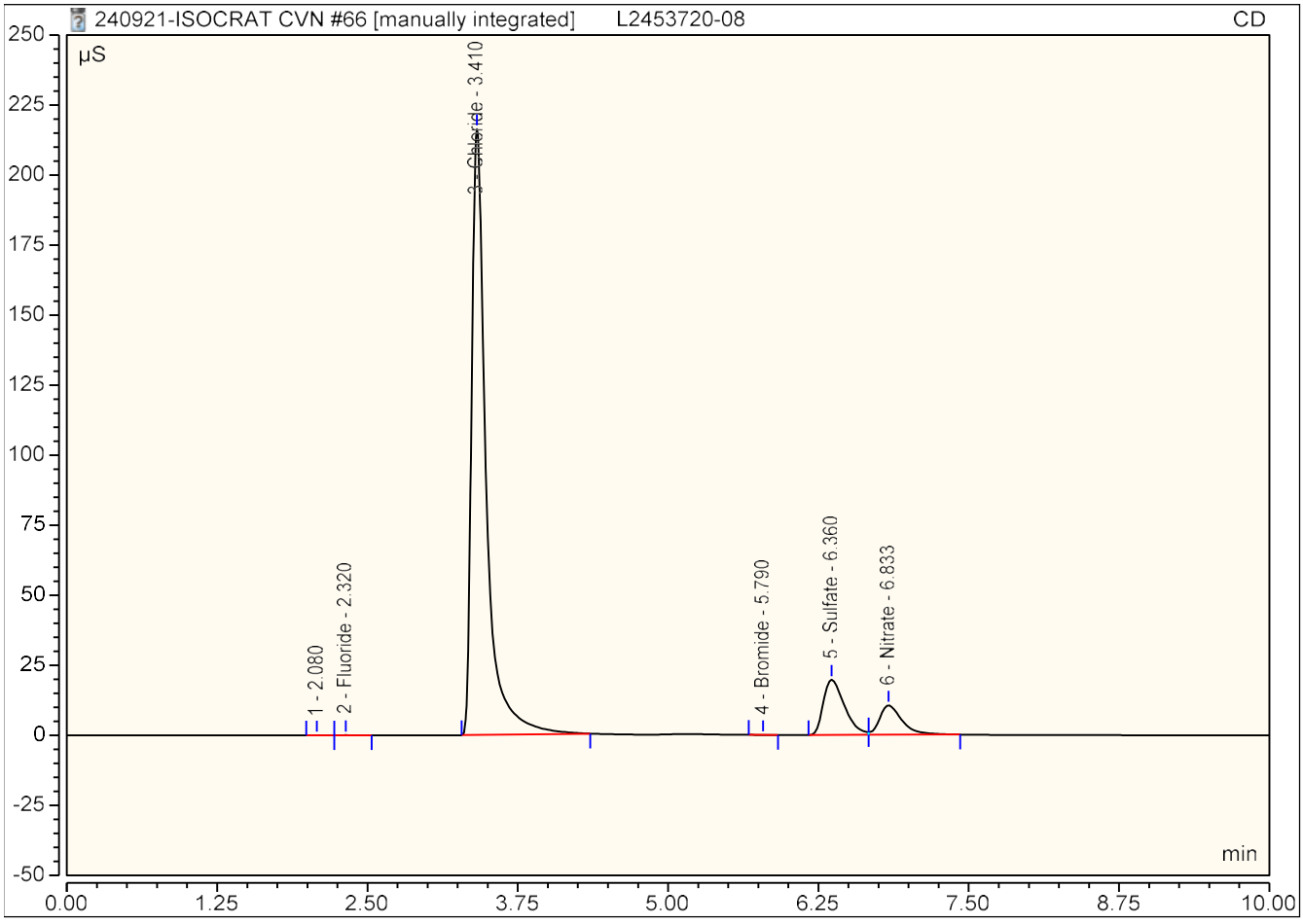
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.009	0.075	0.0602
3	3.42	**Chloride**	BMB	0.609	5.216	1.6918
4	6.36	**Sulfate**	BM *	3.864	18.865	13.6373
5	6.87	**Nitrate**	MB*	1.030	4.764	0.8323
TOTAL:				5.51	28.92	16.22



Peak Integration Report

Sample Name:	**L2453720-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 20:15**	*Run Time:*	**10.00**

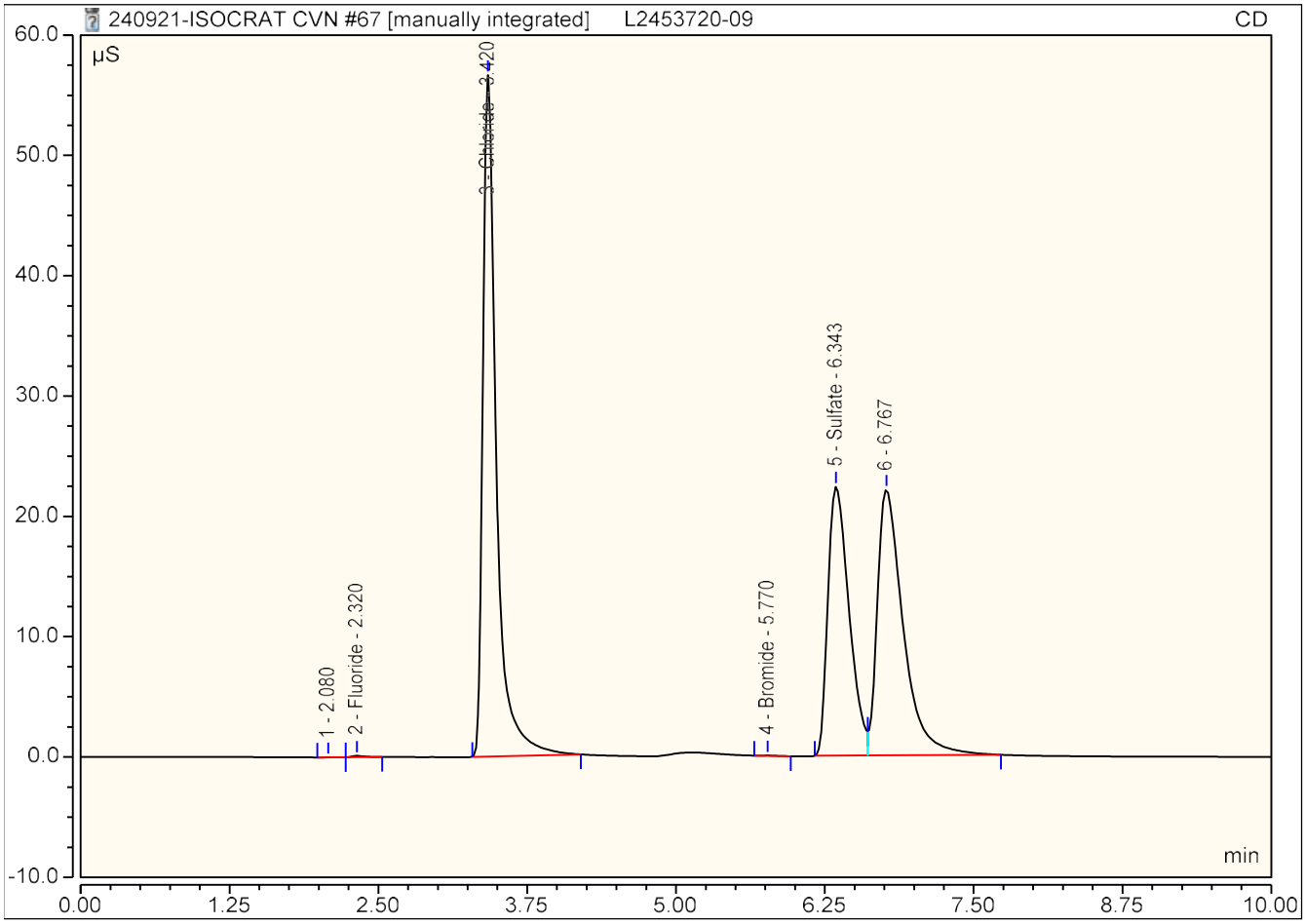
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.007	0.058	0.0573
3	3.41	**Chloride**	BMB*	30.209	216.294	73.9598
4	5.79	**Bromide**	BMB	0.001	0.011	0.0436
5	6.36	**Sulfate**	BM *	4.018	19.710	14.1698
6	6.83	**Nitrate**	MB*	2.269	10.466	1.8040
TOTAL:				36.50	246.54	90.03



Peak Integration Report

Sample Name:	**L2453720-09**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 20:27**	*Run Time:*	**10.00**

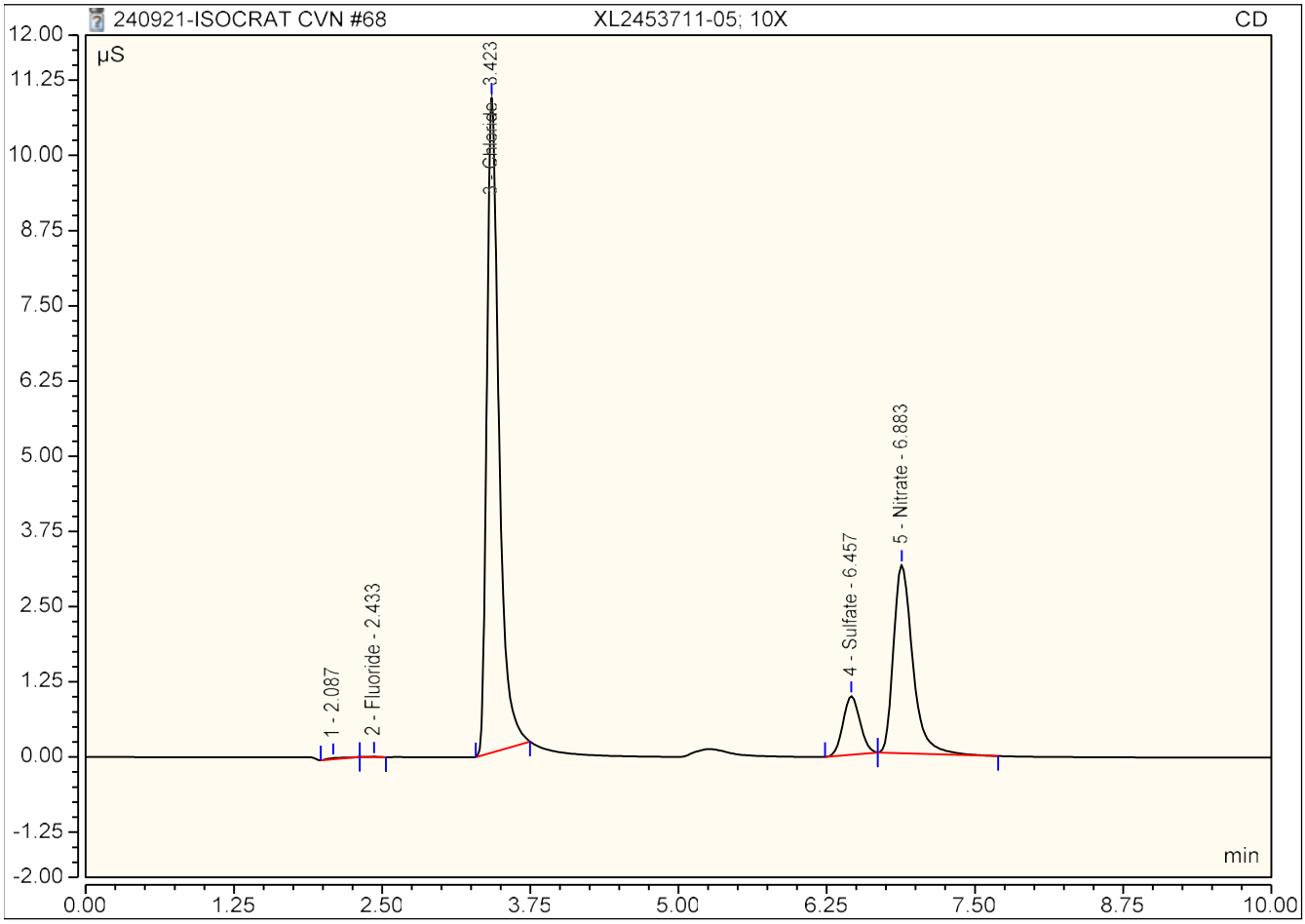
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.012	0.108	0.0666
3	3.42	**Chloride**	BMB*	7.456	56.629	18.4084
4	5.77	**Bromide**	BMB	0.004	0.030	0.0662
5	6.34	**Sulfate**	BM *	4.593	22.356	16.1589
TOTAL:				12.07	79.12	34.70



Peak Integration Report

Sample Name:	**XL2453711-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 20:39**	*Run Time:*	**10.00**

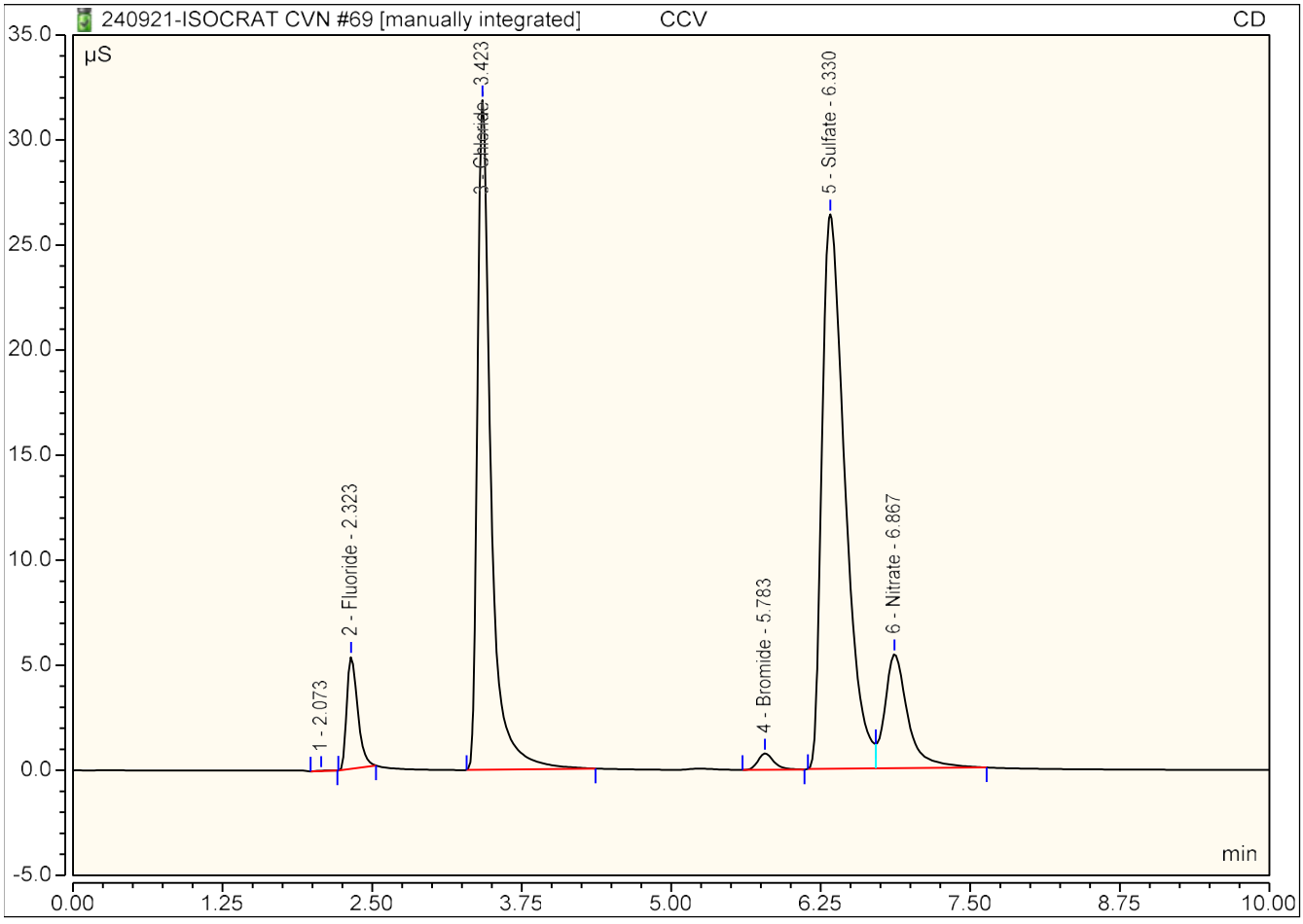
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.43	**Fluoride**	BMB	0.001	0.006	0.4562
3	3.42	**Chloride**	BMB	1.301	10.890	33.8188
4	6.46	**Sulfate**	BMB	0.161	0.975	8.3487
5	6.88	**Nitrate**	BMB	0.591	3.132	4.8854
TOTAL:				2.05	15.00	47.51



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 20:51**	*Run Time:*	**10.00**

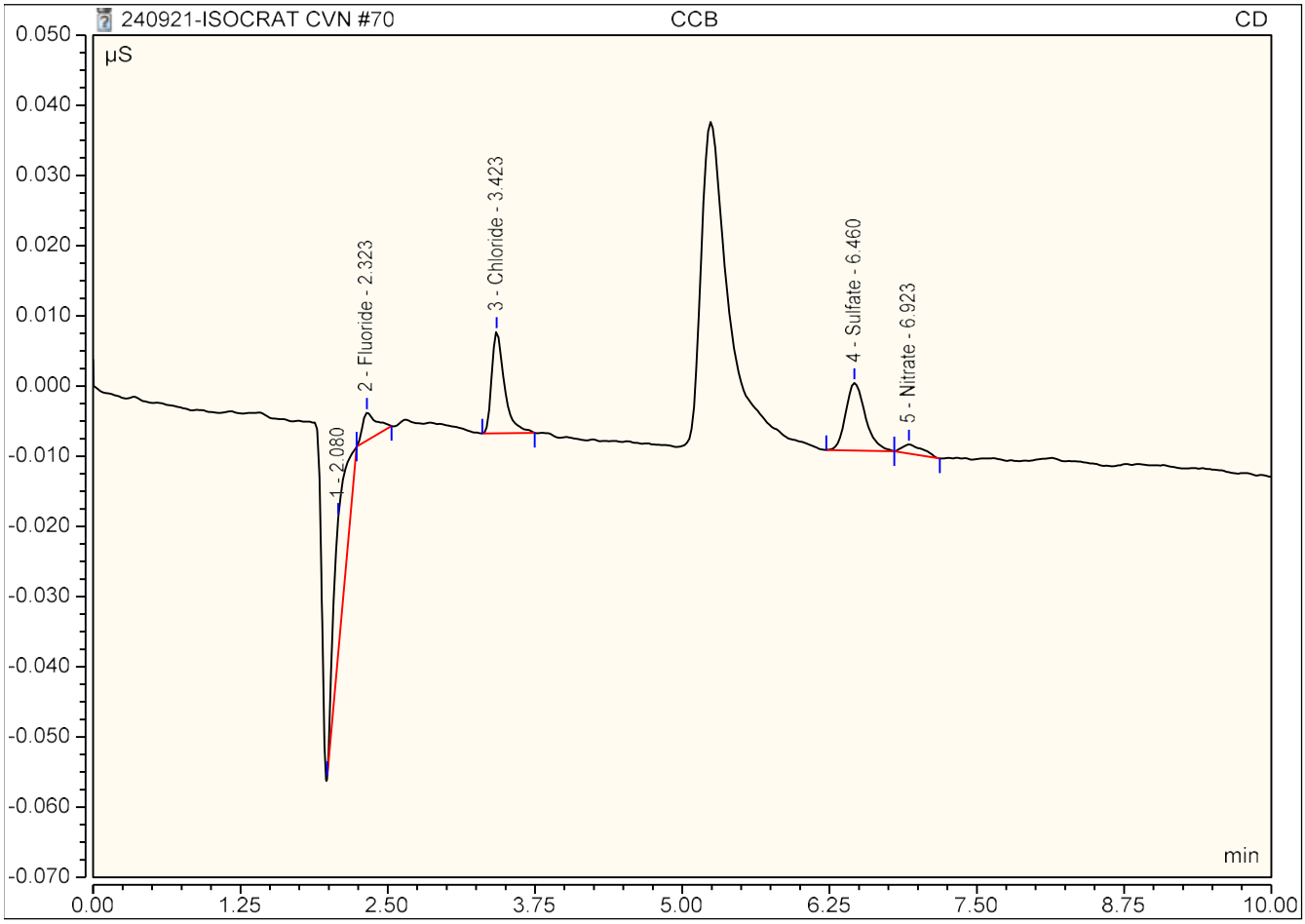
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.563	5.341	1.0714
3	3.42	**Chloride**	BMB*	4.198	31.865	10.4549
4	5.78	**Bromide**	BMB	0.120	0.781	1.0322
5	6.33	**Sulfate**	BM *	5.865	26.386	20.5538
6	6.87	**Nitrate**	MB*	1.217	5.433	0.9790
TOTAL:				11.96	69.81	34.09



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 21:03**	*Run Time:*	**10.00**

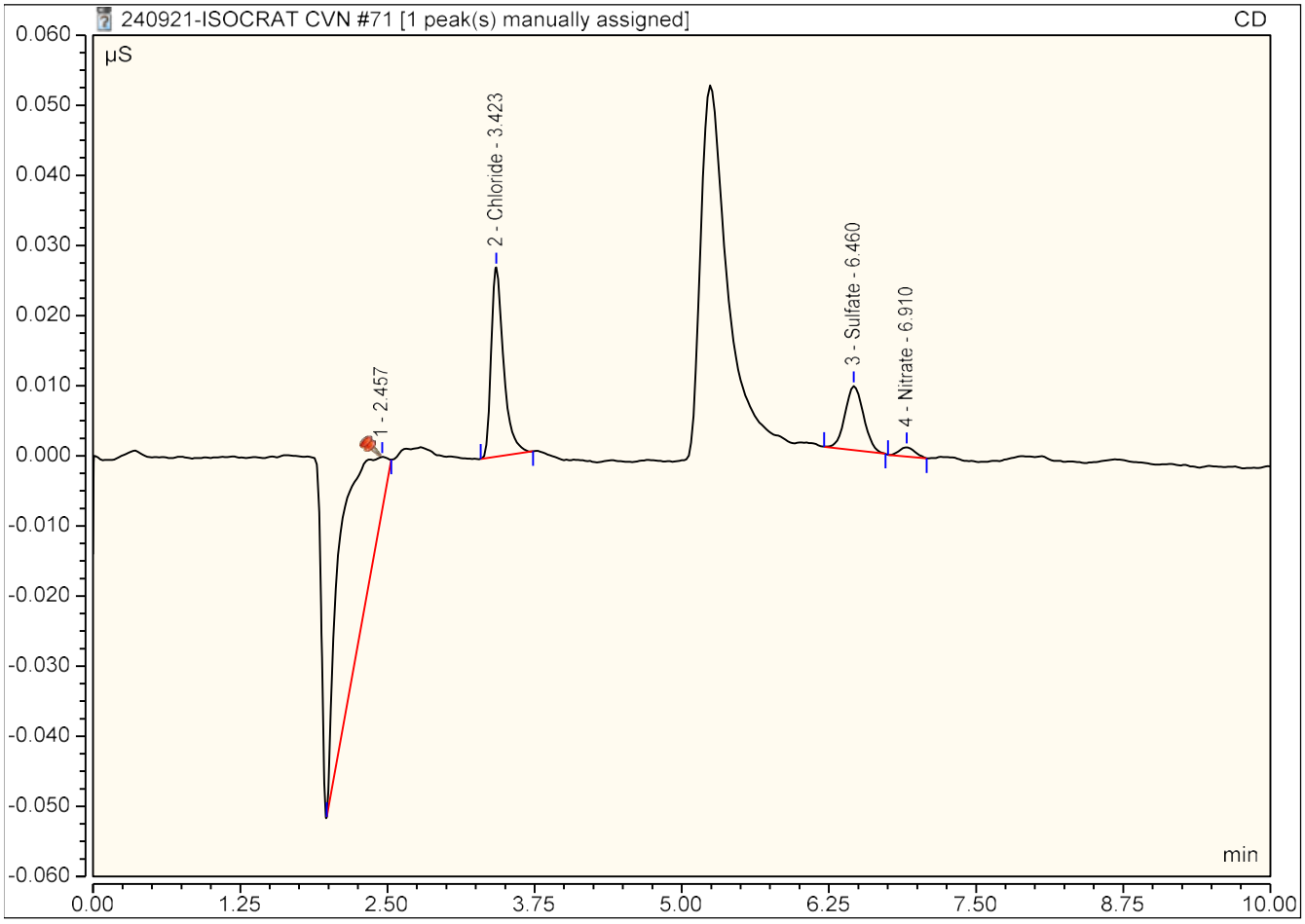
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.001	0.004	0.0455
3	3.42	**Chloride**	BMB	0.002	0.014	0.2101
4	6.46	**Sulfate**	BMB	0.002	0.010	0.2830
5	6.92	**Nitrate**	BMB	0.000	0.001	0.0255
TOTAL:				0.00	0.03	0.56



Peak Integration Report

Sample Name:	**BLK-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 21:15**	*Run Time:*	**10.00**

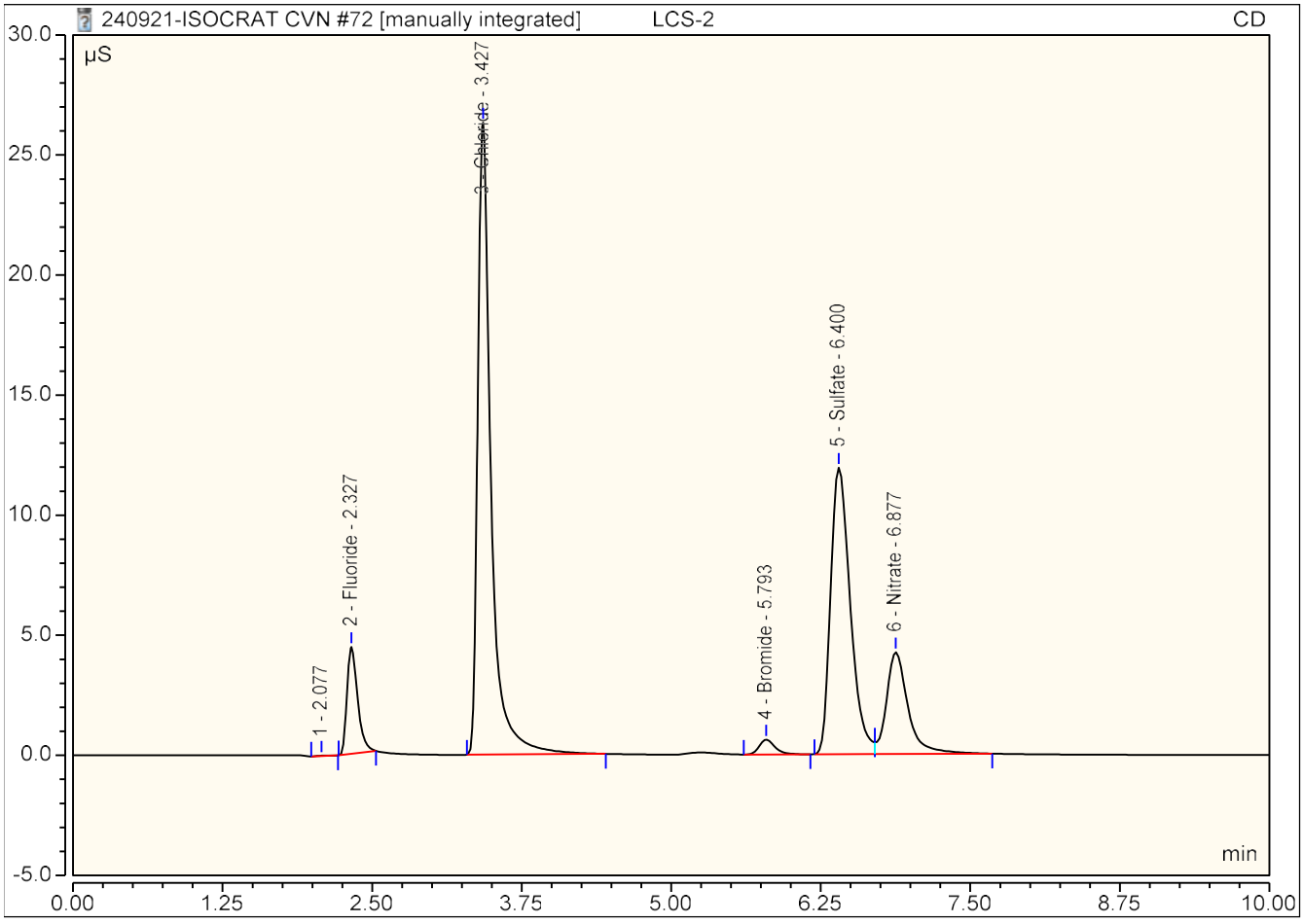
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.42	**Chloride**	BMB	0.003	0.027	0.2136
3	6.46	**Sulfate**	BMB	0.002	0.009	0.2823
4	6.91	**Nitrate**	BMB	0.000	0.001	0.0254
TOTAL:				0.01	0.04	0.52



Peak Integration Report

Sample Name:	**LCS-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 21:27**	*Run Time:*	**10.00**

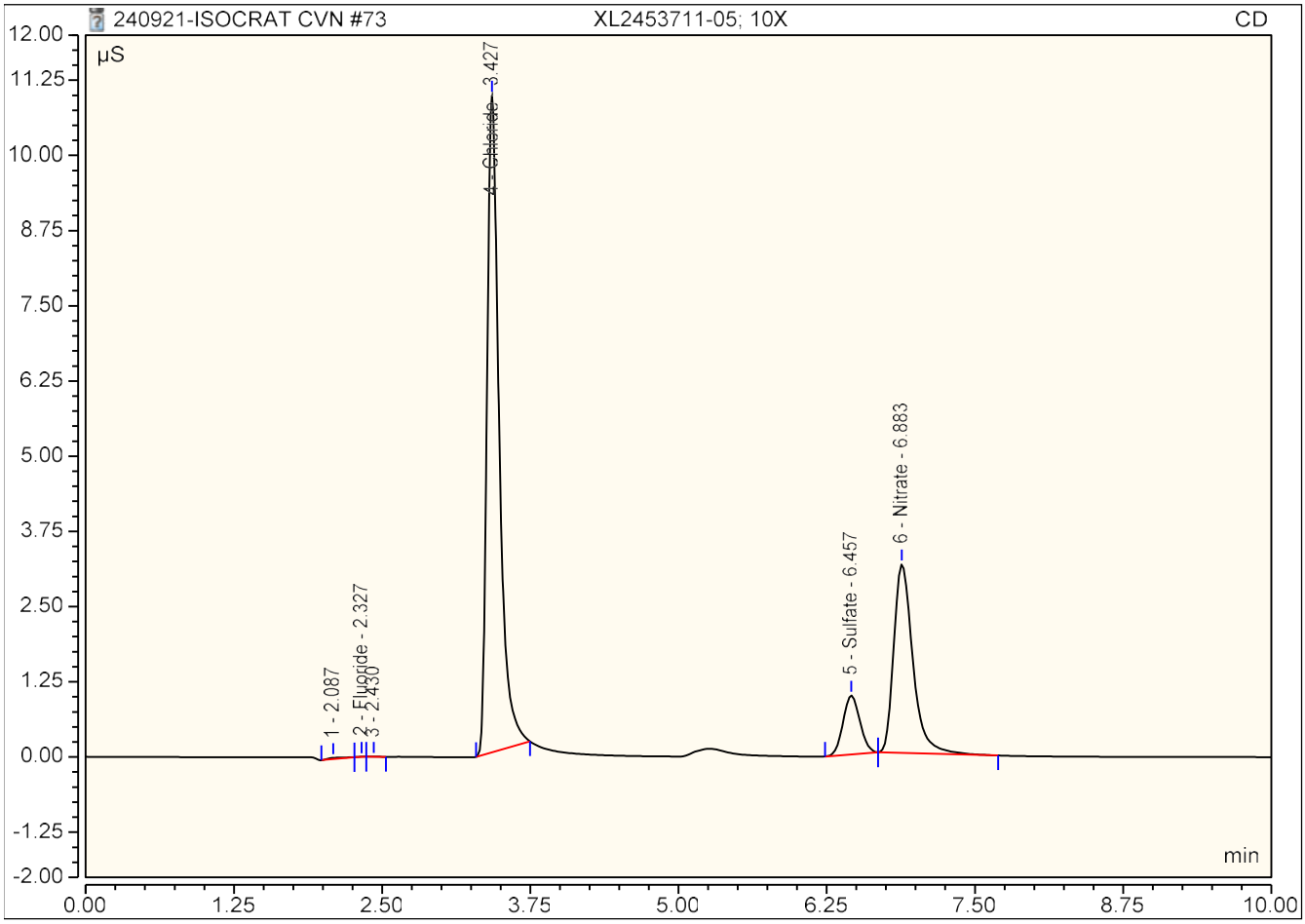
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.456	4.453	0.8765
3	3.43	**Chloride**	BMB*	3.391	26.330	8.4854
4	5.79	**Bromide**	BMB	0.096	0.625	0.8330
5	6.40	**Sulfate**	BM *	2.272	11.929	8.1319
6	6.88	**Nitrate**	MB*	0.883	4.240	0.7174
TOTAL:				7.10	47.58	19.04



Peak Integration Report

Sample Name:	**XL2453711-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 21:39**	*Run Time:*	**10.00**

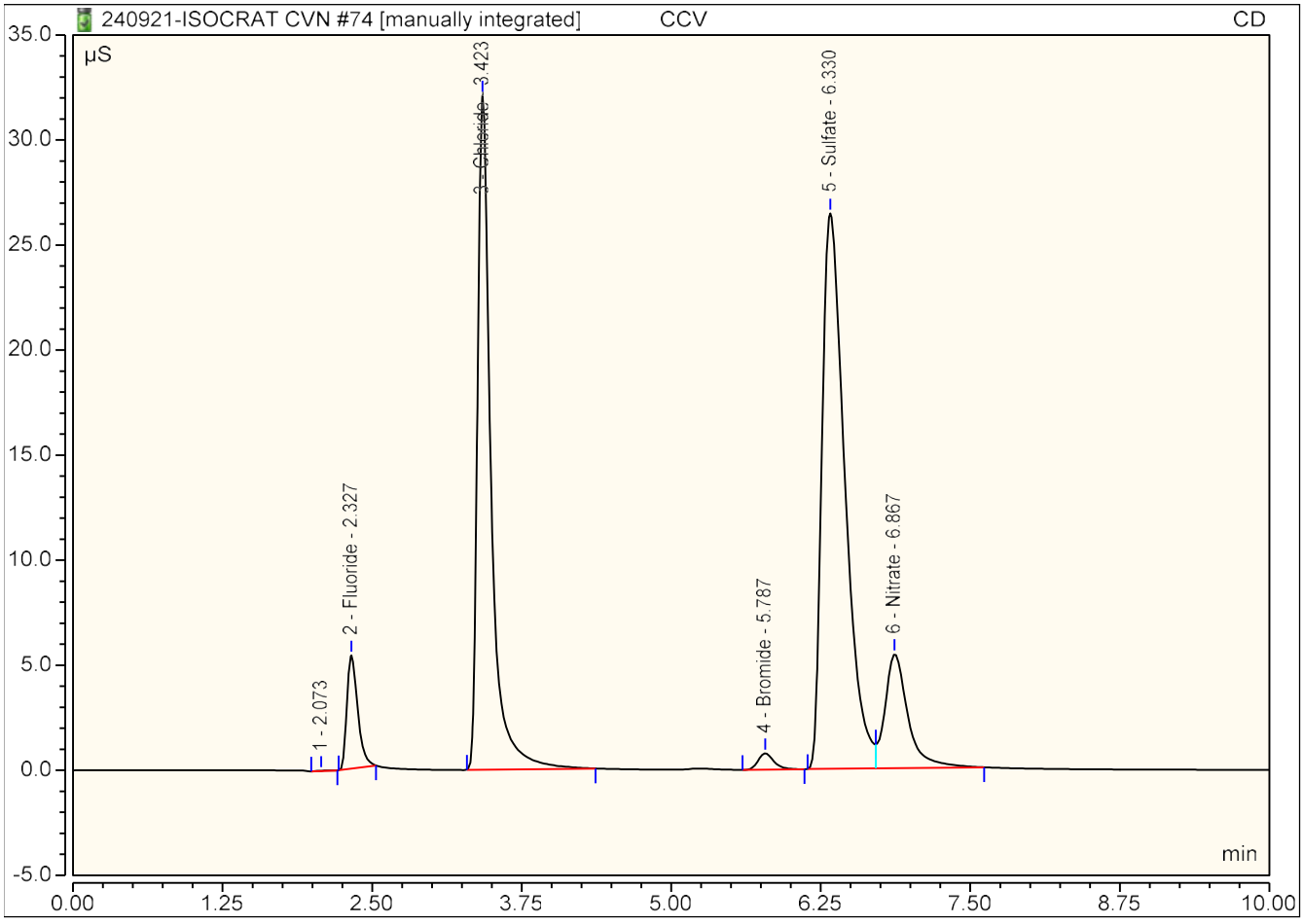
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.000	0.003	0.4485
4	3.43	**Chloride**	BMB	1.297	10.920	33.7216
5	6.46	**Sulfate**	BMB	0.162	0.979	8.3574
6	6.88	**Nitrate**	BMB	0.590	3.141	4.8790
TOTAL:				2.05	15.04	47.41



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 21:51**	*Run Time:*	**10.00**

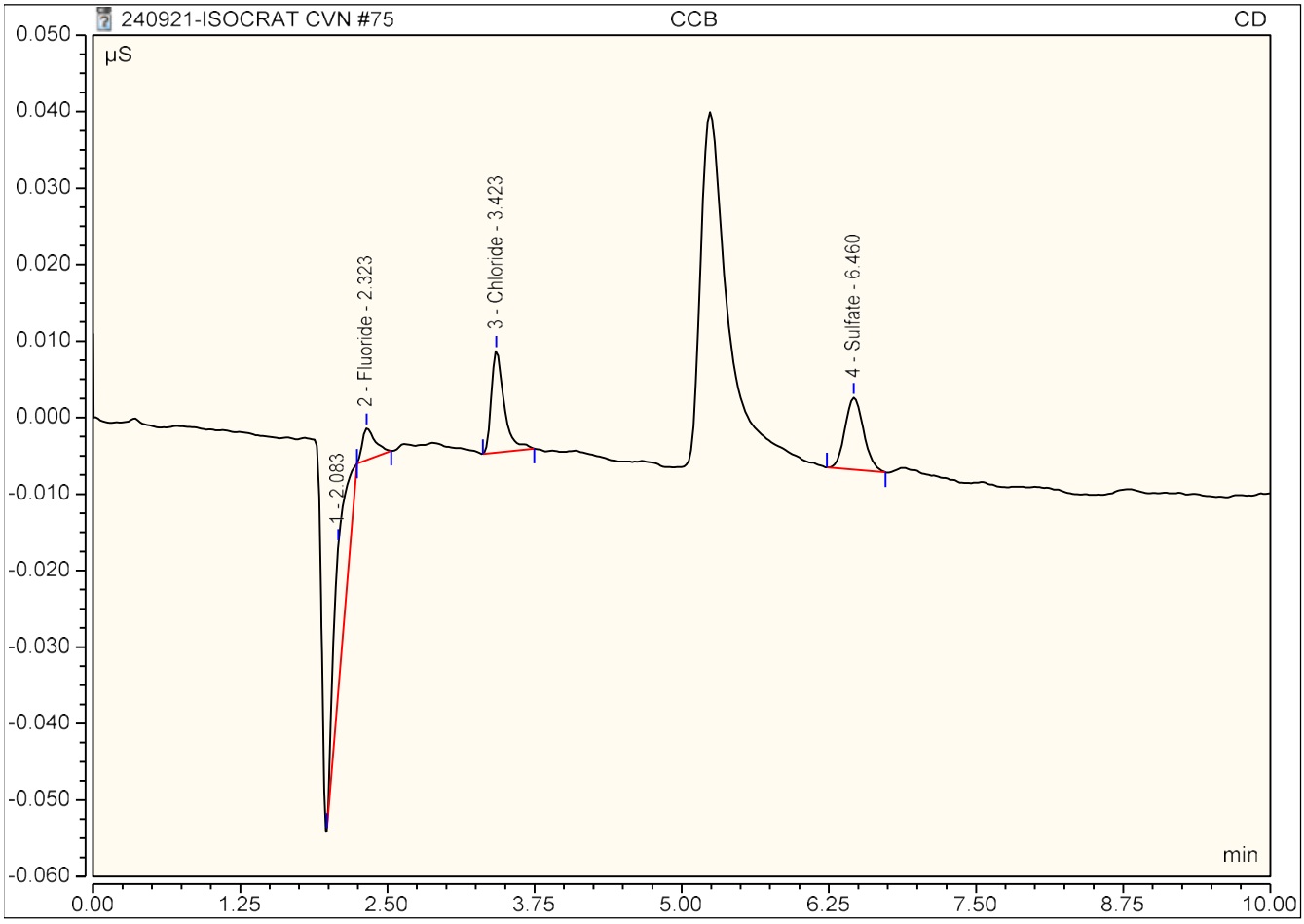
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.564	5.396	1.0725
3	3.42	**Chloride**	BMB*	4.193	32.082	10.4438
4	5.79	**Bromide**	BMB	0.120	0.783	1.0288
5	6.33	**Sulfate**	BM *	5.866	26.437	20.5596
6	6.87	**Nitrate**	MB*	1.211	5.436	0.9742
TOTAL:				11.95	70.13	34.08



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**21-Sep-2024 / 22:04**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.32	**Fluoride**	BMB	0.001	0.004	0.0454
3	3.42	**Chloride**	BMB	0.002	0.013	0.2097
4	6.46	**Sulfate**	BMB	0.002	0.009	0.2825
TOTAL:				0.00	0.03	0.54



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	n.a.	0.2129	n.a.	0.2810	n.a.
2	STD 0.5	1.0	0.0592	0.3873	0.0442	0.6237	0.0525
3	STD 1.0	1.0	0.0738	0.5947	0.0646	1.0491	0.0753
4	STD 2.0	1.0	0.1840	1.9971	0.1868	3.9561	0.1890
5	STD 3.0	1.0	0.4607	4.9336	0.4717	9.9320	0.4440
6	STD 4.0	1.0	1.9885	19.7203	2.0078	39.8861	2.0141
7	STD 5.0	1.0	5.0087	50.1170	5.2021	100.0530	5.2575
8	RINSE	1.0	0.0642	0.2169	n.a.	0.2808	n.a.
9	CCV	1.0	1.0162	10.1547	1.0064	20.3146	1.0333
10	CCB	1.0	0.0454	0.2163	0.0256	0.2888	n.a.
11	ICV	1.0	0.8766	8.3922	0.7298	8.0588	0.8333
12	ICB	1.0	n.a.	0.2159	n.a.	0.2874	n.a.
13	BLK	1.0	n.a.	0.2131	n.a.	0.2815	n.a.
14	LCS	1.0	0.8747	8.3210	0.7249	8.0688	0.8290
15	L2453576-01 BR CL SO4	1.0	0.1648	119.7739	1.3542	84.5219	0.0514
16	L2453576-01; 10X	10.0	0.5751	130.3890	1.4458	93.0140	n.a.
17	XL2453576-02	1.0	0.2533	308.5046	n.a.	488.9859	n.a.
18	L2453576-02; 10X	10.0	0.6718	341.3696	n.a.	542.6627	n.a.
19	XL2453576-03	1.0	0.2657	291.6625	n.a.	488.8619	n.a.
20	L2453576-03; 10X	10.0	0.6679	318.0099	n.a.	540.7540	n.a.
21	CCV	1.0	1.0783	10.3566	1.0214	20.3483	1.0300
22	CCB	1.0	n.a.	0.2229	0.0255	0.2970	n.a.
23	L2453576-04; 10X	10.0	0.6571	272.7696	n.a.	1449.1374	n.a.
24	L2453576-04; 50X	50.0	2.4382	259.7654	n.a.	1381.3515	n.a.
25	L2453576-05; 10X	10.0	0.6623	488.7026	n.a.	1588.6133	n.a.
26	L2453576-05; 50X	50.0	2.4527	459.3308	n.a.	1504.7860	n.a.
27	XL2453576-06	1.0	0.3702	455.2689	n.a.	843.3111	n.a.
28	XL2453576-06; 10X	10.0	0.8150	528.8575	n.a.	1009.0776	0.9222
29	XL2453753-07	1.0	1.9899	195.8643	n.a.	321.4408	n.a.
30	L2453576-07; 10X	10.0	2.3795	212.7340	n.a.	346.3912	n.a.
31	L2453711-01 BR CL SO4	1.0	0.0531	95.5304	5.6584	25.6662	0.0607
32	L2453711-01; 10X	10.0	0.4568	113.8305	6.2764	31.0591	0.3464
33	CCV	1.0	1.0661	10.3697	0.9824	20.3865	1.0143
34	CCB	1.0	n.a.	0.2196	0.0255	0.2922	n.a.
35	L2453711-02	1.0	0.0588	111.7925	4.6169	12.2501	0.1008
36	L2453711-02; 10X	10.0	0.4737	122.5415	4.6863	14.1287	0.3779
37	L2453711-03	1.0	0.0997	14.4029	7.4004	85.3135	n.a.
38	XL2453711-03; 10X	10.0	0.5094	16.2518	7.3193	94.0024	n.a.
39	L2453711-04	1.0	0.0622	14.8105	n.a.	67.1231	0.1214
40	L2453711-05	1.0	0.0557	32.4902	5.0024	6.9555	n.a.
41	XL2453711-05; 10X	10.0	0.4551	35.6170	5.1529	8.7479	n.a.
42	L2453711-06	1.0	0.0632	11.2378	0.7648	3.2001	0.0487
43	L2453711-07	1.0	0.0468	19.1561	0.0941	7.4773	n.a.
44	L2453711-11	1.0	0.0451	0.2092	0.0255	0.2813	n.a.
45	CCV	1.0	1.0681	10.3405	0.9790	20.5258	1.0148

46	CCB	1.0	0.0455	0.2164	0.0254	0.2895	n.a.
47	L2453711-08	1.0	0.0516	25.0773	10.8239	2.6517	0.0642
48	XL2458711-08; 10X	10.0	0.4517	27.4128	11.0942	5.0167	0.3510
49	L2453711-09	1.0	0.0491	40.4946	1.6118	27.3762	0.0554
50	L2453711-10	1.0	0.0531	11.5105	0.5372	4.8070	0.0465
51	L2454059-01 BR	1.0	0.0573	131.7729	4.3424	11.0644	0.0459
52	L2454059-02	1.0	0.0691	13.9337	2.0065	19.3908	0.0510
53	L2453576-06; 25X	25.0	1.3991	474.0460	n.a.	906.9088	1.2834
54	L2453711-04 DUP	1.0	0.0622	14.9410	n.a.	67.3339	0.1228
55	L2453711-04 MS	1.0	0.4158	18.3400	0.7483	70.9412	0.4144
56	L2453720-01	1.0	0.0710	12.7920	1.0186	13.2136	0.0641
57	CCV	1.0	1.0842	10.5280	0.9922	20.7154	1.0365
58	CCB	1.0	0.0458	0.2115	n.a.	0.2888	n.a.
59	L2453720-02	1.0	0.0602	30.9849	3.3770	15.5992	n.a.
60	L2453720-02 MS	1.0	0.4298	34.2534	3.6448	22.8251	0.3800
61	L2453720-02 MSD	1.0	0.4276	34.6058	3.6508	22.7725	0.3801
62	L2453720-03	1.0	0.0706	12.7733	1.0251	13.2717	0.0635
63	L2453720-04	1.0	0.0483	0.2179	0.0259	0.2846	n.a.
64	L2453720-06	1.0	0.0675	29.4284	5.7698	17.2269	0.0645
65	L2453720-07	1.0	0.0602	1.6918	0.8323	13.6373	n.a.
66	L2453720-08	1.0	0.0573	73.9598	1.8040	14.1698	0.0436
67	L2453720-09	1.0	0.0666	18.4084	n.a.	16.1589	0.0662
68	XL2453711-05; 10X	10.0	0.4562	33.8188	4.8854	8.3487	n.a.
69	CCV	1.0	1.0714	10.4549	0.9790	20.5538	1.0322
70	CCB	1.0	0.0455	0.2101	0.0255	0.2830	n.a.
71	BLK-2	1.0	n.a.	0.2136	0.0254	0.2823	n.a.
72	LCS-2	1.0	0.8765	8.4854	0.7174	8.1319	0.8330
73	XL2453711-05; 10X	10.0	0.4485	33.7216	4.8790	8.3574	n.a.
74	CCV	1.0	1.0725	10.4438	0.9742	20.5596	1.0288
75	CCB	1.0	0.0454	0.2097	n.a.	0.2825	n.a.
	Sum:	323.000	39.7673		129.1109	12647.0694	23.2436
	Average:	4.307	0.5763		2.4361	168.6276	0.5811
	Rel.Std.Dev:	203.645 %	1.4174		1.1328	2.2413	1.5421

Inject Time	Comment
05/Sep/2024 16:08	AU
05/Sep/2024 16:20	LOT#240905-0.5
05/Sep/2024 16:33	LOT#240905-1.0
05/Sep/2024 16:45	LOT#240905-2.0
05/Sep/2024 16:57	LOT#240905-3.0
05/Sep/2024 17:09	LOT#240905-4.0
05/Sep/2024 17:21	LOT#240905-5.0
21/Sep/2024 08:34	WG1974654-5-6
21/Sep/2024 08:46	LOT#240916-C
21/Sep/2024 08:58	CVN
21/Sep/2024 09:10	LOT#240916-I
21/Sep/2024 09:22	CVN
21/Sep/2024 09:34	CVN
21/Sep/2024 09:46	LOT#240916-I
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21/Sep/2024 22:04	CVN
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	#DIV/0!

Quality Control

Form 5a
Matrix Spike

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: MW-8D	**Matrix**	: WATER
Lab Sample ID	: L2453720-02		
Matrix Spike	: WG1974656-3	**MS Analysis Date**	: 09/21/24 19:02
Matrix Spike Dup	: WG1974656-4	**MSD Analysis Date**	: 09/21/24 19:14

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Bromide	ND	0.4	0.380	96	0.4	0.380	96	0	90-110	20

Form 7
Laboratory Control Sample

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2453720
Project Name	: CORAM MATERIALS	**Project Number**	: 2232.0006Y005
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1974656-2	**LCS Analysis Date**	: 09/21/24 21:27
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.833	104.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$